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CONTENTS

	Page
List of Patentees (includes Reissues)	3
Erratum (Previous edition)	3
List of Design Patentees	1171
List of Plant Patentees	1211
Classification of Patents	1213
Classification of Designs	1293
List of Patent, Design, Plant Patent, and Reissue Numbers Appearing in the Official Gazette for 1962	1297
List of Disclaimers and Dedications	1299
Decisions Published in the Official Gazette in 1962	1301

1962

PATENTS ISSUED

Patents	55,698—No.	3,015,103 to No. 3,070,800[1]	inclusive.
Reissues	202—No.	25,107 to No. 25,308	inclusive.
Designs	2,300—No.	192,004 to No. 194,303	inclusive.
Plant Patents	90—No.	2,117 to No. 2,207	inclusive.

[1] Includes 7 Patents withdrawn.

1962
LIST OF PATENTEES

This list includes reissue patentees

Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Erratum

Previous Edition

In the "Index of Patents," vol. 1961, under the heading "List of Patentees," page 86, second column, between lines 70 and 71, under the heading "Bissell Inc.: *See*—", the following entry was omitted, and should be inserted as part of said index:

Williams, Donald E. 2,975,450.

ABA Cellophane Products Corp.: *See*—
Alvarez, Felix. 3,045,891.
ABC Chemical Corp.: *See*—
Simpson, Theodore S., Jr. 3,045,387.
A-B-C Packaging Machine Corp.: *See*—
Neal, James L. and M. P., and Dice. 3,063,209.
ABG-Werke Gesellschaft mit beschrankter Haftung, firma: *See*—
Kammerlin, Heinrich L. 3,069,984.
A & C Engineering Co.: *See*—
Atherholt, George L., Sr. 3,030,120.
ACF Industries, Inc.: *See*—
Anderson, Clifford E. 3,029,060.
Anderson, Clifford E. 3,068,901.
Anderson, Clifford E., Gulick, and Nagel. 3,067,977.
Anderson, Clifford E., and Natho. 3,064,940.
Armstrong, James F. 3,029,800.
Boehlow, Robert W. 3,045,505.
Bonwit, Stuart E. 3,068,589.
Browne, Francis P. 3,026,633.
Carlson, Harold A. 3,052,453
Carlson, Harold A., and Szwargulski. 3,059,898.
Cohen, Charles L. 3,024,370.
Cohen, Charles L. 3,031,775.
Cohen, Charles L., and Atchison. 3,031,142.
Cohen, Charles L., Fitzpatrick, and Lyon. 3,024,458.
Compton, Donald R., and Pratzki. 3,045,896.
Corbin, Alfred. 3,032,270.
Dubner, Harvey A. 3,041,460.
Eckert, Louis F., Jr. 3,025,033.
Eisenberg, Robert M. 3,023,516.
Eisenberg, Robert M. 3,023,517.
Eisenberg, Robert M. 3,026,632.
Filangeri, Anthony E., and Clar. 3,030,832.
Franck, Glenn H. 3,018,567.
Franck, Glenn H. 3,057,083.
Gallo, Julius R., and Udstad. 3,061,255.
Gehner, Maurice A. 3,025,039.
Gordon, Dwight M. 3,025,040.
Gulick, Ronald A. 3,038,494.
Gulick, Ronald A. 3,051,434.
Hawkins, Donald K. 3,020,650.
Hawkins, Donald K. 3,061,945.
Jameson, William P., and Eisenberg. 3,066,424.
Johnson, Eldon A. 3,036,524
Johnson, Eldon A. 3,039,748.
Johnson, Eldon A., and White. 3,021,792.
Johnson, John A., and Kennedy. 3,047,163.
Keevil, Sidney G., Jr. 3,062,150.
McKinney, I. W. 3,057,595.
Natho, Paul J. 3,028,878.
Natho, Paul J. 3,067,978.
Natho, Paul J., and Quast. 3,064,687.
Niemeyer, Edward H. 3,051,847.
Ott, William F., Krein, and Carlson. 3,043,572.
Peck, Donald S., and McGinty. 3,026,629.
Queen, James L. 3,049,704.
Rapplean, Eugene L. 3,031,172.
Read, Leland B. 3,030,085.
Read, Leland B. 3,062,448.
Reynolds, David J. 3,061,133.
Ruth, Harvey L. 3,058,728.
Schierhorst, Albert E. 3,020,651.
Siegel, William J., and White. 3,030,833.
Sullivan, Herbert W. 3,065,464.
Whitby, Clyde M., and Fontaine. 3,026,631.
White, Hosea D., Jr., Cohen, and McGinty. 3,026,630.
White, John J., and Clar. 3,030,695.

ACH Fiber Service, Inc.: *See*—
Wollner, Herbert J. 3,016,749.
Wollner, Herbert J. 3,064,482.
A.C.T., Inc.: *See*—
Jacobsen, Paul W. 3,061,159.
AEI-Birlec Ltd.: *See*—
Robiette, Alfred G. E. 3,064,166.
Slocombe, Cyprian M., and Lovern. 3,026,444.
A.E.I.-Hotpoint Ltd.: *See*—
Todhunter, Ronald W., and Urquhart. 3,029,771.
A.E.I.-John Thompson Nuclear Energy Co. Ltd.: *See*—
Camac, George. 3,066,969.
Coates, Graham, and Bryant. 3,057,793.
Fifield, Charles H. Q., Smith, and Robinson. 3,021,274.
Lakin, Raymond W., and Griffiths. 3,027,039.
Sutherland, Donald M., and Tiper. 3,035,994.
A.E.I. Lamp and Lighting Co. Ltd.: *See*—
Beeson, Eric J. G., and Nichols. 3,035,207.
A.J. Industries, Inc.: *See*—
Cain, Clifford G. 3,066,948.
AMP Inc.: *See*—
Albright, Robert L. 3,046,636.
Allen, John W., Lerch, and Ziegler. 3,048,650.
Benfer, David V., and Gardner. 3,032,959.
Benfer, David V., and Gardner. 3,059,404.
Broske, William F. 3,029,705.
Broske, William F. 3,044,333.
Broske, William F. 3,044,334.
Building, Francis P. 3,054,979.
Carbaugh, Robert A., and Wolverton. 3,056,942.
Cobaugh, Robert F. 3,052,750.
Cobaugh, Robert F., and Wahl. 3,018,816.
Crandel, Leonard F. 3,062,944.
Crane, Hewitt D. 3,056,116.
Crowley, Daniel J., Folkenroth, and Packard. 3,018,679.
Curtis, Charles E. 3,034,089.
Demler, Henry W. 3,036,308.
Evans, William R. 3,070,144.
Hammell, Kemper M. 3,066,275.
Hammell, Kemper M., and Rueger. 3,068,376.
Hensehen, Homer E. 3,058,091.
Hoffman, Norman E. 3,067,489.
Kerstetter, Harold A., Hardeman, and Folkenroth. 3,030,694.
Klingler, Martin L. 3,030,838.
Klingler, Martin L. 3,053,112.
Klingler, Martin L. 3,070,143.
Klingler, Martin L., and Over. 3,037,545.
Leonard, George H. 3,065,441.
Maurer, John F. 3,065,447.
O'Keefe, Michael F., and Wahl. 3,015,683.
Oliver, Morris A. 3,033,019.
Overman, William R., and Stine. 3,029,670.
Schwalm, Glendon H., and Ullman. 3,019,679.
Schwalm, Gendon H., Ullman, and Wagner. 3,062,390.
Stoltz, Herbert C. 3,030,927.
Stoltz, Herbert C. 3,031,001.
Stuart-Prince, Richard G. 3,039,337.
Swengel, Robert C. 3,038,958.
Ullman, Robert, Fortna, Middleton, Schwalm, and Tritt. 3,023,415.
Ullman, Robert, Fortna, Middleton, Schwalm, and Tritt. 3,066,826.
Walsh, Gregory F., Selihan, and D. K. Walsh. 3,029,586.
Wise, Joseph A. 3,056,445.
A.P.W. Co. Ltd., The: *See*—
Shore, David T. 3,057,726.
A.R.I.C. Ltd.: *See*—
Birch, George C. R. 3,028,463.
AR Inc.: *See*—
Villchur, Edgar M. 3,033,945.
A.R.L.M.G.S.-Moviesbox General System, Societa: *See*—
Bavaro, Vincenza. 3,041,925.
A R & T Electronics, Inc.: *See*—
Mountjoy, Garrard, and Reid. 3,021,383.
Reid, John D. 3,054,858.
A and T Development Corp.: *See*—
Avril, Arthur C. 3,064,392.
"A.V.R." Achat, Ventes, Representations, Societe Anonyme: *See*—
Somville, Charles A. 3,018,861.
Somville, Charles A. 3,031,049.
Vilbajo, Jean. 3,056,352.

AWEPA : *See*—
Weber, Alexander. 3,064,304.
Aagaard, Einar A., to North American Philips Co., Inc. Symmetrical current circuit fed by direct current. 3,042,-816, 7–3–62, Cl. 307—89.
Aagaard, Fridtjof : *See*—
Spitzer, Penn F., Jr., and Aagaard. 3,049,533.
Aagaard, Fridtjof, to American Cyanamid Co. Fluid throttling valve. 3,018,793, 1–30–62, Cl. 137—595.
Aagard, Roger L., to United States of America, Navy. Infrared radiometer. 3,035,441, 5–22–62, Cl. 73—170.
Aalbers, Johan G. : *See*—
De Jong, Hugo M., Aalbers, and Brenkman. 3,054,820.
De Jong, Hugo M., Brenkman, and Aalbers. 3,038,862.
Aalund, Thomas K., and H. Sullivan, to The Siegler Corp. Intelligence storing device for recording equipment. 3,019,-301, 1–30–62, Cl. 179—100.2.
Aandewiel, Cornelis J. Micro switch. 3,037,099, 5–29–62, Cl. 200—67.
Aaron, Charles, and L. Rockstrom, to Cameron Machine Co. Web roll pick-up and supporting apparatus. 3,057,571, 10–9–62, Cl. 242—58.6.
Aaron, Moe I., to American Stencil Mfg. Co. Double-end ball-point pen. 3,025,834, 3–20–62, Cl. 120—42.1.
Aaron, Nathan : *See*—
Lobel, Martin A. 3,041,734.
Aarons, Melvin W., J. W. Dzimianski, and J. M. Bentley, to Westinghouse Electric Corp. Semiconductor device. 3,018,-423, 1–23–62, Cl. 317—234.
Aarons, Ralph, and J. Bugosh, to E. I. du Pont de Nemours and Co. Antistatic composition. 3,033,699, 5–8–62, Cl. 106—286.
Aaronson, Silman H. Apparatus for cooking edible meats. 3,055,288, 9–25–62, Cl. 99—427.
Aarts, Willem H., and H. C. Goldie, to African Explosives and Chemical Industries Ltd. Method and apparatus for the continuous measurement and recording of the concentration of one component of liquid phase solutions. 3,030,-802, 4–24–62, Cl. 73—53.
Aarvold, Reinhardt O., E. H. Isaksson, and A. G. Wadman, to Gotaverken, Aktiebolaget. Apparatus for articulating hingedly connected parts. 3,056,386, 10–2–62, Cl. 121—119.
Aas, Helge : *See*—
Oppegaard, Assur G., Hauge, and Aas. 3,050,362.
Abadie, Jacques. Tape control means. 3,069,570, 12–18–62, Cl. 307—115.
Abadjieff, Ivan V., to Leland-Gifford Co. Drill sharpener and point thinner. 3,022,609, 2–27–62, Cl. 51—55.
Abadjieff, Ivan V. Automatically closing window ventilators. 3,027,824, 4–3–62, Cl. 98—95.
Abadjieff, Ivan V. Bandage. 3,042,036, 7–3–62, Cl. 128—156.
Abajian, Aram C. Water walking skis. 3,034,157, 5–15–62, Cl. 9—310.
Abarotin, Eugene V., and H. Colijn, to United States Steel Corp. Apparatus for use in lining vessels. 3,033,389, 5–8–62, Cl. 214—1.
Abate, John E. : *See*—
McNally, James A., and Abate. 3,034,059.
Abb, Robert G. : *See*—
Roberts, Charles S., Jr., and Abb. 3,064,614.
Abberly, Nicholas R. Built-up hollow field-weldable structural steel length. 3,040,846, 6–26–62, Cl. 189—24.
Abberly, Nicholas R. Field-weldable built-up hollow structural steel length. 3,040,849, 6–26–62, Cl. 189—37.
Abbey Etna Machine Co. : *See*—
Hankin, Ralph L. 3,018,678.
Nitkiewicz, Stanley J. 3,050,101.
Abbott, Andrew D., and R. O. Bolt, to California Research Corp. Silicon esters. 3,029,269, 4–10–62, Cl. 260—448.8.
Abbott Coburn Foundation : *See*—
Beckman, George H., and Robert. 3,034,199.
Abbott, Earl : *See*—
Lickliter, Robert P., and Abbott. 3,015,375.
Abbott, Elbert V., and F. E. Carroll, Jr., to The Park-Ur-Self-System. Ticket dispensing machine. 3,034,123, 5–8–62, Cl. 346—24.
Abbott, Gail C., to Grip Nut Co. Lock nut with displaced thread portion. 3,029,856, 4–17–62, Cl. 151—21.
Abbott, George F., Jr., and F. D. Padden, to Bell Telephone Laboratories, Inc. Transistor multivibrator circuit with variable impedance operation stabilizing means. 3,051,850, 8–28–62, Cl. 307—88.5.
Abbott, Harold W., to General Electric Co. Core signal translating devices. 3,024,447, 3–6–62, Cl. 340—174.
Smart, William D. 3,021,334.
Abbott, Harold W., and V. P. Mathis, to General Electric Co. Time summing device for division, multiplication, root taking and interpolation. 3,043,516, 7–10–62, Cl. 235—195.
Abbott, Henry H., to Bell Telephone Laboratories, Inc. Subscriber line circuit with local ringing. 3,059,058, 10–16–62, Cl. 179—18.
Abbott, Henry H., C. R. Martin, and J. G. Walsh, to Bell Telephone Laboratories, Inc. Private branch exchange telephone system. 3,037,086, 5–29–62, Cl. 179—42.
Abbott, Henry H., C. R. Martin, O. C. Olsen, R. A. Previte, and H. J. and J. G. Walsh, to Bell Telephone Laboratories, Inc. Private branch exchange telephone system. 3,037,-087, 5–29–62, Cl. 179—42.
Abbott, James : *See*—
Alexander, Raymond, Schupan, and Abbott. 3,029,675.
Abbott Laboratories : *See*—
Abood, Leo G., and Brady. 3,053,736.
Beck, Stanley H. 3,039,931.
Bergman, Donald E., Denison, and Friedland. 3,021,261.
Bujan, Albert F. 3,064,648.
Close, Warren J. 3,052,695.
De Rose, Anthony F. 3,057,878.
De Rose, Anthony F. 3,062,811.
Dickinson, Henry M. N. 3,039,928.
Dickson, Donald E., and Sherman. 3,055,910.
Gleason, Geoffrey I. 3,033,652.
Hasbrouck, Richard B., and Alter. 3,030,269.
Horrom, Bruce W. 3,037,045.
Horrom, Bruce W. 3,066,167.
Illich, George M., Jr., Robinson, Smart, and Garven. 3,037,046.
Johnson, Wesley N. 3,066,843.
Kimura, Eugene T. 3,035,976.
Kueter, Kenneth E. 3,060,086.
Kurath, Paul, and Cole. 3,045,012.
Lynch, Matthew J. 3,032,417.
Mozen, Milton M., and Evans. 3,058,884.
Osterberg, Arnold E. 3,020,201.
Otto, Gilbert R. 3,069,316.
Schock, Richard U. 3,026,322.
Schock, Richard U., Jr., Hasbrouck, and Dickson. 3,020,283.
Schultz, Charles G. 3,030,272.
Sherman, William R. 3,024,233.
Sherman, William R. 3,061,587.
Stanish, Edward S. 3,061,445.
Stanko, George L. 3,039,929.
Suyeoka, George M. 3,065,308.
Von Esch, Anne M., and Sherman. 3,058,988.
Weston, Arthur W. 3,062,705.
Zagnoli, Roland C. 3,030,273.
Zaugg, Harold E., and De Net. 3,043,845.
Abbott-Lane Industries, Inc. : *See*—
Hart, Robert K. 3,064,800.
Abbott, Paul D. Universal tractor hitch. 3,031,208, 4–24–62, Cl. 280—460.
Abbott, Raymond B., and R. H. Olson, to Owens-Illinois Glass Co. Apparatus for molding glass. 3,024,571, 3–13–62, Cl. 49—37.
Abbott, Roy W., to General Electric Co. Heat exchange assembly. 3,022,949, 2–20–62, Cl. 257—262.13.
Abbott, Thomas I., and E. C. Yackel, to Eastman Kodak Co. Photographic processes utilizing photolytic halogen. 3,033,-677, 5–8–62, Cl. 96—29.
Abbott, Tilden G. Tape constructions for use in laying out croquet courts. 3,039,197, 6–19–62, Cl. 33—98.
Abbott, Tomoya, Paraffin removing valve assembly for tubing. 3,016,094, 1–9–62, Cl. 166—169.
Abbott, William B. : *See*—
Klepper, Herbert, and Abbott. 3,068,998.
Abbott, William B., to Mergenthaler Linotype Co. Hydraulic quadding and centering mechanism for typographical casting machines. 3,028,948, 4–10–62, Cl. 199—50.
Abbott, William B., to Mergenthaler Linotype Co. Assembling mechanism for linecasting machines. 3,040,876, 6–26–62, Cl. 199—27.
Abbott, William B., to Mergenthaler Linotype Co. Second elevator mechanism for linecasting machines. 3,054,500, 9–18–62, Cl. 199—37.
Abbott, William B., and H. Klepper, to Mergenthaler Linotype Co. Typographical composing machines. 3,069,000, 12–18–62, Cl. 199—56.
Abbott, William F., to Carbon Wool Corp. Method for carbonizing fibers. 3,053,775, 9–11–62, Cl. 252—421.
Abbott, William K. : *See*—
Schelleng, Robert D., and Abbott. 3,055,755.
Abbott, William P., and K. A. Waits, to W. J. Voit Rubber Corp. Water ski. 3,056,148, 10–2–62, Cl. 9—310.
Abbott, Wilton E., to North American Aviation, Inc. Control of traversing right angle attachment for radial draw former. 3,062,266, 11–6–62, Cl. 153—40.
Abbühl, Fritz. Muffler for internal combustion engines. 3,035,658, 5–22–62, Cl. 181—56.
Abdelmaseh, Peter M. Live bait casting device. 3,063,187, 11–13–62, Cl. 43—41.2.
Abe, Matazo : *See*—
Isono, Masao, and Abe. 3,056,731.
Abe, Seiichi : *See*—
Morita, Sigeru, and Abe. 3,057,672.
Abe, Shigeo, A. Furuya, T. Saito, and K. Takayama, to Kyowa Hakko Kogyo Co., Ltd. Method of producing L-malic acid by fermentation. 3,063,910, 11–13–62, Cl. 195—36.
Abe, Tetsuya : *See*—
Hiratsuka, Matsumura, Matsuda, Takagi, Kasawara, Oono, Abe, and Ozawa. 3,038,786.
Abegg & Reinhold Co. : *See*—
Spiri, Willy H. 3,035,424.
Abel, Barry D. Reel for wire. 3,058,688, 10–16–62, Cl. 242—115.
Abel, Derek E. : *See*—
Walne, Peter, and Abel. 3,035,634.
Abel, Donald J. Motion converters. 3,060,295, 10–23–62, Cl. 200—153.
Abel, Edmund, Jr., and E. J. Standring. Photographic device. 3,040,640, 6–26–62, Cl. 95—11.

Abel, Edmund W., to The Lau Blower Co. Wall type electric heater assembly. 3,023,297, 2–27–62, Cl. 219—34.
Abel, Finn R., to Allied Tractor Equipment Co. Moldboard assembly. 3,016,637, 1–16–62, Cl. 37—170.
Abel, Heinz: *See*—
Casty Richard, and Abel. 3,049,392.
Abel, Heinz, to Ciba Ltd. Process for dyeing wool with metal complex dyestuffs. 3,062,609, 11–6–62, Cl. 8—43.
Abel, Martin L., to Fluidwick Co., Inc. Electric control device. 3,022,398, 2–20–62, Cl. 200—87.
Abel, Martin L., to Tann Corp. Bearing. 3,034,838, 5–15–62, Cl. 308—72.
Abel, Martin L., to Permawick Co., Inc. Injection machines for wicking material. 3,053,421, 9–11–62, Cl. 222—250.
Abel, Martin L., to The Tann Corp. Bearing. 3,053,588, 9–11–62, Cl. 308—121.
Abel, Martin L., and I. Tann, to Tann Corp. Journal box lubricant pad. 3,036,870, 5–29–62, Cl. 308—88.
Abel, Walter, to Measure-Meters Co. Ltd. Counting mechanism. 3,017,085, 1–16–62, Cl. 235—117.
Abel, William J., to Anaconda Aluminum Co. Container closing apparatus. 3,048,934, 8–14–62, Cl. 53—329.
Abeles, Arthur, and T. N. McKay, to Sargent & Greenleaf, Inc. Combination lock mechanism. 3,058,334, 10–16–62, Cl. 70—81.
Aberbom, Irving: *See*—
Mohler, William F., and Aberbom. 3,032,951.
Aberg, Martin B. Apparatus for making tubes of bonded flexible strips. 3,035,736, 5–8–62, Cl. 154—1.8.
Aberle, Robert C., to General Electric Co. Lint filter for clothes laundering machine. 3,022,654, 2–27–62, Cl. 68—18.
Aberle, Robert C., to General Electric Co. Washing machine drive system. 3,046,772, 7–31–62, Cl. 68—12.
Abichandani, Krishin P., E. H. Krug, T. E. Hainsworth, and M. W. Story, to Lear Inc. Aircraft acceleration limiter. 3,062,487, 11–6–62, Cl. 244—77.
Abild, Robert N., to United Aircraft Corp. Rocket thrust control. 3,046,734, 7–31–62, Cl. 60—35.6.
Abild, Robert N., C. O. Broders, H. S. Crim, and J. O. Gallant, to United Aircraft Corp. Purge system for rocket propellant system. 3,050,936, 8–28–62, Cl. 60—35.6.
Abildgaard, William H., to Plastomeric Products Corp. Surgeon's gown and glove assembly and method of sterilizing same. 3,049,715, 7–24–62, Cl. 206—63.2.
Abilities, Inc.: *See*—
Krobath, Hans. 3,039,312.
Abiti Power & Paper Co., Ltd.: *See*—
Lang, William G. 3,022,207.
Abitibi Power & Paper Co., Ltd.: *See*—
Hossain, Shafi U. 3,027,226.
Abiuso, Leonard F. Method for avoiding paper stretching in offset printing. 3,025,792, 3–20–62, Cl. 101—217.
Able Research Lab.: *See*—
Tarczy-Hornoch, Zoltan. 3,060,791.
Ablondi, Frank B.: *See*—
Hagan, James J., Ablondi, and Clarke. 3,066,079.
Abolins, Andrew, to Strick Trailers, a Division of Fruehauf Trailer Co. Retractable landing gear. 3,024,042, 3–6–62, Cl. 280—150.5.
Abolins, Andrew, and R. A. Hitch, to Strick Trailers, a division of Fruehauf Trailer Co. Horizontal container couplers. 3,052,941, 9–11–62, Cl. 24—221.
Abolins, Helmuts: *See*—
Lang, Tadeusz, and Abolins. 3,053,113.
Abolins, Visvaldis, to General Electric Co. Method of insulating an electrical coil. 3,037,885, 6–5–62, Cl. 117—232.
Abom, Johan V. Thermally actuated motor. 3,032,966, 5–8–62, Cl. 60—24.
Abood, Leo G. Piperidine: psycho-chemotherapeutic. 3,035,-977, 5–22–62, Cl. 167—65.
Abood, Leo G. Treatment of mental disturbances by chemotherapeutic means. 3,051,620, 8–28–62, Cl. 167—65.
Abood, Leo G., and L. E. Brady; said Brady assor. to Abbott Laboratories. Treatment of mental disturbances by chemotherapeutic means. 3,053,736, 9–11–62, Cl. 167—65.
Abos, Ralph L., to Polycarbide Corp. Three dimensional particle size classifier. 3,047,145, 7–31–62, Cl. 209—12.
Abragam, Anatole, J. Combrisson, and I. Solomon, to Commissariat a l'Energie Atomique. Method and device for the measurement of magnetic fields by magnetic resonance. 3,049,661, 8–14–62, Cl. 324—.5.
Abragam, Anatole, J. Combrisson, and I. Solomon, to Commissariat a l'Energie Atomique. Method and device for the measurement of magnetic fields by magnetic resonance. 3,049,662, 8–14–62, Cl. 324—.5.
Abraham, Allen D.: *See*—
Poole, Henry G., and Abraham. 3,053,919.
Abraham. Edward P., G. G. F. Newton, and C. W. Hale, to National Research Development Corp. Transformation of cephalosporin C. 3,049,541, 8–14–62, Cl. 260—243.
Abraham, Frank J., to Boeing Airplane Co. Gas turbine engine fuel supply controls. 3,043,367, 7–10–62, Cl. 158—36.4.
Abraham, James G., to Armco Steel Corp. Water level control device. 3,056,422, 10–2–62, Cl. 137—398.
Abraham, Richard P., to Bell Telephone Laboratories, Inc. Limiter employing operational amplifier having nonlinear feedback circuit. 3,036,224, 5–22–62, Cl. 307—88.5.
Abrahams, Johan P. Activated aluminum catalyst carriers and catalysts prepared therewith. 3,038,865, 6–12–62, Cl. 252—466.
Abrahamsen, Johan E. Channel shaped sheet metal nail. 3,058,385, 10–16–62, Cl. 85—11.
Abrahamsen, Roy F., to Combustion Engineering, Inc. Vapor generator. 3,048,153, 8–7–62, Cl. 122—4.
Abrahamsson, Bo A.: *See*—
Albertsson, Tor A., and Abrahamsson. 3,064,161.
Abramo, John G.: *See*—
Chapin, Earl C., and Abramo. 3,041,320.
Garner, Albert Y., Abramo, and Chapin. 3,065,272.
Abramo, John G., to Monsanto Chemical Co. Polymers of hydroxyalkyl vinylbenzyl ethers. 3,041,319, 6–26–62, Cl. 260—80.3.
Abramo, John G., to Monsanto Chemical Co. Process for producing vinyl aromatic oxymethyl compounds. 3,055,947, 9–25–62, Cl. 260—611.
Abramo, John G., to Monsanto Chemical Co. Polymers of alkyl vinylbenzyl ethers. 3,063,976, 11–13–62, Cl. 260—80.3.
Abramo, John G., and E. C. Chapin, to Monsanto Chemical Co. Chemical manufacture. 3,038,890, 6–12–62, Cl. 260—82.1.
Abramo, John G., A. Y. Garner, and E. C. Chapin, to Monsanto Chemical Co. Ethylenically unsaturated aromatic phosphorus acids. 3,051,740, 8–28–62, Cl. 260—461.
Abramo, John G., and E. C. Chapin, to Monsanto Chemical Co. Copolymers of vinylbenzyl alcohol and vinylbenzyl alkyl ethers. 3,063,975, 11–13–62, Cl. 260—80.3.
Abramo, John G., and E. C. Chapin, to Monsanto Chemical Co. Coating compositions comprising melamine- and ureaformaldehyde resins in combination with copolymers of beta-phenallyl alcohol and conjugated 1,3-dienes. 3,065,-198, 11–20–62, Cl. 260—45.2.
Abramo, John G., E. C. Chapin, and A. Y. Garner, to Monsanto Chemical Co. Vinylidene aromatic phosphine monomers. 3,065,210, 11–20–62, Cl. 260—80.
Abramo, John G., and E. C. Chapin, to Monsanto Chemical Co. Copolymers of styrene, vinylbenzyl alcohol and allyl alcohol. 3,069,399, 12–18–62, Cl. 260—80.5.
Abramoska, Paul A., to The Weatherhead Co. Self-sealing locking coupling with manipulator and pivoted latch means. 3,028,179, 4–3–62, Cl. 285—317.
Abramowitz, William L.: *See*—
Tatel, Howard E., and Sreb. 3,025,521.
Abrams, Abraham. Material examining apparatus. 3,065,-615, 11–27–62, Cl. 64—166.
Abrams, Bernard W., and H. Freeder, to Clevite Corp. Self-sealing lanyard device. 3,054,618, 9–18–62, Cl. 277—32.
Abrams, Elouis D. Package face powder. 3,023,886, 3–6–62, Cl. 206—46.
Abrams, Hardin T.: *See*—
Pierce, Roger J., and Abrams. 3,020,397.
Abrams, Irving. Pneumatic pressure control device for inflatable tire elements. 3,022,795, 2–27–62, Cl. 137—227.
Abrams, Irving M., L. L. Benezra, and R. D. Goold, to Diamond Alkali Co. Method of stabilizing a polyester, monomer composition with a sulphonium salt and composition thereof. 3,028,361, 4–3–62, Cl. 260—45.4.
Abrams, Ralph, and W. H. West, to Cambridge Thermionic Corp. Control knob. Re. 25,224, 8–14–62, Cl. 287—52.6.
Abrams, Simon. Spot bowler's rule. 3,021,616, 2–20–62, Cl. 35—29.
Abrams, Victor R.: *See*—
Froscher, James L., and Abrams. 3,060,039.
Abrams, Victor R., T. C. Werge, and J. F. Ryan, Jr., to W. F. and John Barnes Co. Method and apparatus for controlling processing temperatures. 3,041,958, 7–3–62, Cl. 99—251.
Abramson, Abraham, to Raylite Electric Corp. Display outfits with separable decorative floral cover constructions. 3,050,619, 8–21–62, Cl. 240—10.
Abramson, Andrew E.: *See*—
Anderson, James R., and Abramson. 3,060.332.
Abramson, Franz W., and J. H. Gilson, to General Motors Corp. Exhaust system for vehicle internal combustion engine. 3,019,847, 2–6–62, Cl. 180—64.
Abrasive Products, Inc.: *See*—
White, Richard H. 3,037,852.
Abrell, Cornelius W. Motor driven fixture scaffold. 3,018,-842, 1–30–62, Cl. 182—129.
Abresch, Carel F., and R. L. Mercer, to General Motors Corp. Dishwasher. 3,044,842, 7–17–62, Cl. 312—348.
Abromaitis, Andre T., to McGraw-Edison Co. Fire detection system. 3,044,050, 7–10–62, Cl. 340—227.
Abruzzi, Cesare. Bowling ball wrist hanger and automatic release. 3,046,014, 7–24–62, Cl. 273—64.
Absalom, James G., to The Marquardt Corp. Device for regulating fluid supply pressure. 3,067,761, 12–11–62, Cl. 137—108.
Abseck, Stuart, and J. Rehfield, ⅔ to J. M. Heilman and ⅓ to M. Kingston. Machine for handling machine shorthand note paper. 3,030,923, 4–24–62, Cl. 120—30.

Absorbent Cotton Co., The: *See*—
London, Melvin D. 3,017,070.

Abt, Clifford F., and R. Y. Miner, to American Bosch Arma Corp. Torpedo intercept calculating apparatus. 3,019,969, 2–6–62. Cl. 235—61.5.

Abt, Walter, to Inredeco, Inc. Stopper with safety seals. 3,042,242, 7–3–62, Cl. 215—41.

Abt, Walter, to Afico S.A. Dredger for dispensing powdered products. 3,058,630, 10–16–62, Cl. 222—484.

Abtronics, Inc.: *See*—
Owren, Harvey M. 3,042,832.

Abzug, Irving, to International Business Machines Corp. Ring checking circuit. 3,017,620, 1–16–62, Cl. 340—248.

Abzug, Malcolm J.: *See*—
Heald, Ervin R., and Abzug. 3,062,048.

Acciarri, Jerry A., and D. R. Napier, to Continental Oil Co. Process for the purification of metal alkoxides with a lower nitroalkane. 3,062,857, 11–6–62, Cl. 260—448.

Accinno, Dante J.: *See*—
Schneider, Julius F., and Accinno. 3,066,177.

Acco Products: *See*—
Klein, Peter M. 3,061,090.

Accumulateurs Fixes et de Traction (Societe Anonyme), Societe des: *See*—
Auge, Henri P. 3,064,069.
Hebben, Philippe B. J. 3,018,315.
Jammet, Jean F. 3,040,117.
Jammet, Jean F. 3,051,769.
Vogt, Hans. 3,059,041.

Accumulatoren-Fabrik Aktiengesellschaft: *See*—
Peters, Freimut. 3,023,258.
Peters, Freimut. 3,031,517.
Rabl, Richard. 3,024,948.
Vielstich, Wolf, Justi, and Winsel. 3,068,157.
Von Dohren, Hans H., and Walther. 3,050,386.

Accumulatoren-Fabrik Aktiengesellschaft and Siemens-Schuckert-Werke Aktiengesellschaft: *See*—
Gruneberg, Gerhard, Jung, Spengler, and Justi. 3,067,-276.

Accurate Specialties, Inc.: *See*—
Diamond, Lawrence H. 3,019,485.

Accurate Spring Mfg. Co.: *See*—
Bonde, Alfons A., and Di Pasquale. 3,032,076.

Accurate Steel Rule Die Manufacturers: *See*—
Scott, Erhardt K. and M. L. 3,036,478.

Ace Electronics Associates, Inc.: *See*—
Benri, Louis W. 3,048,805.
Berri, Louis W. 3 049,687.
Williams, David G. and J. W. 3,046,510.

Ace Engineering and Machine Co., Inc.: *See*—
Schaller, Clarence R., Jr. 3,040,118.
Schaller, Clarence R., Jr. 3,055,969.

Ace Fastener Corp.: *See*—
Lash, Elliott J. 3,037,206.

Ace Glass Inc.: *See*—
De Woody, Charles M. 3,050,608.

Ace Tool & Mfg. Co.: *See*—
Schuls, Werner. 3,034,673.

Aceweb Tool & Mfg. Co.: *See*—
Martineau, Paul A. 3,046,667.

Achat, Ventes, Representations, Societe Anonyme, A.V.R.: *See*—
Vilbajo, Jean. 3,064,381.

Ache, Richard P., to Westinghouse Electric Corp. Welding apparatus. 3,064,120, 11–13–62, Cl. 219—125.

Achelis, Johann D., R. Gall, E. Haack, and W. Volmel, to C. F. Boehringer & Soehne G.m.b.H. Sulfanilamido pyrazole compounds. 3,028,382, 4–3–62, Cl. 260—239.9.

Achelis, Johann D., R. Gall, E. Haack, and W. Voemel, to C. F. Boehringer & Soehne G.m.b.H. Process of producing solutions of chloramphenical in aqueous liquids, and composition. 3,044,936, 7–17–62, Cl. 167—65.

Acheson Industries, Inc.: *See*—
Campbell, Erwin J. 3,035,318.
Crowl, James S. 3,062,741.
Youse, Earl L. 3,055,852.

Achilles Corp.: *See*—
Miller, Anthony P. 3,020,915.

Achtelik, Gerald J., and J. M. Constable, to Electronic Products Co. Radiation meter. 3,065,349, 11–20–62, Cl. 250—83.6.

Achter, Meyer R., and G. J. Danek, Jr. Reverse bending fatigue testing device. 3,027,757, 4–3–62, Cl. 73—67.4.

Achterberg, Alfred. Mechanical game. 3,033,568, 5–8–62, Cl. 273—1.

Achterhof, Marvin, J. W. Henley, and J. E. Shriner, to The Eagle Picher Co. Method of rendering unvulcanized rubber embossable comprising incorporating therein the reaction product of a cellulosic material and an epoxy resin, and product obtain thereby. 3,026,271, 3–20–62, Cl. 260—2.3.

Aciers Fins de l'Est, Societe des: *See*—
Péras, Lucien. 3,028,021.

Ackell, Joseph J., H. L. Paulding, and R. T. Yu, to Dow Jones & Co., Inc. Punched tape editing means. 3,018,946, 1–30–62, Cl. 234—25.

Ackell, Joseph J., and H. L. Paulding, to Dow Jones & Co., Inc. Printing machines. 3,044,395, 7–17–62, Cl. 101—65.

Acker, Agnes R.: *See*—
Glenn, Edward R. 3,020,580.

Acker, Donald S., and W. W. Prichard, to E. I. du Pont de Nemours, and Co. Method for inhibiting plant and fungal growth. 3,062,635. 11–6–62, Cl. 71—2.3.

Acker, George H., to Eaton Mfg. Co. Two-fluid signaling lubricating system. 3,064,759, 11–20–62, Cl. 184—7.

Acker, John C.: *See*—
Glenn, Edward R. 3,020,580.

Acker, Ralph E., to Lane Container Co. Container for sheet material. 3,040,880, 6–26–62, Cl. 206—60.

Acker, William C., to United States of America, Navy. Sequential channel sampler deriving individual channel gating pulses from sequential portions of single sawtooth pulse. 3,058,013, 10–9–62, Cl. 307—88.5.

Acker, William F., and A. M. Hanson, to Minneapolis-Honeywell Regulator Co. Combined manual and automatic control apparatus. 3,060,895, 10–30–62, Cl. 121—38.

Ackerman, Dolletta M. Liquid dispenser and applicator. 3,048,881, 8–14–62, Cl. 15—572.

Ackerman, Frank, and H. Gould. Wire marking tool. 3,052,-180, 9–4–62, Cl. 101—9.

Ackerman, Nathan. Turret lathe control. 3,043,278, 7–10–62, Cl. 121—45.

Ackermann, Carl A.: *See*—
Frantz, Frederick H., and Ackermann. 3,016,002.
Frantz, Frederick H., and Ackermann. 3,055,266.

Ackermann, Carl A., to General Aniline & Film Corp. Diazo type reproducing apparatus. 3,060,828, 10–30–62, Cl. 95—77.5.

Ackermann, Harry J. Corn topper. 3,025,653, 3–20–62, Cl. 56—53.

Ackermann, Harry J. End gate for wagon boxes. 3,026,139, 3–20–62, Cl. 296—56.

Ackermann, Hermann F., Jr. Drafting table. 3,068,610, 12–18–62, Cl. 45—131.

Ackermann, Joseph A., to The Elwell-Parker Electric Co. Industrial truck. 3,018,011, 1–23–62, Cl. 214—140.

Ackles, Virgil E. Conveyor washing mechanism. 3,017,986, 1–23–62, Cl. 198—230.

Ackley, Charles E.: *See*—
Miskel, John J., Fitzgerald, and Ackley. 3,026,792.

Ackley, Charles E., to R. W. Hartnett Co. Article handling apparatus. 3,042,183, 7–3–62, Cl. 198—62.

Ackley, John W., to Deere & Co. Liquid fertilizer control means. 3,060,872, 10–30–62, Cl. 111—67.

Acla-Werke Aktiengesellschaft: *See*—
Blase, Gunter. 3,032,377.

Acme Appliance Mfg. Co.: *See*—
Brydolf, Robert. 3,054,447.
Brydolf, Robert. 3,057,173.
Tucker, Council A., and Brydolf. 3,048,882.

Acme Brief Case Co. Inc.: *See*—
Wakeman, Alfred W. 3,032,040.

Acme Die Casting Corp.: *See*—
Furlong, Donn B. 3,032,024.

Acme Electric Corp.: *See*—
Moyer, Elmo E. 3,054,040.

Acme-Hamilton Mfg. Corp., The: *See*—
Kahn, Marvin M. 3,029,843.
Kahn, Marvin M. 3,047,026.

Acme Highway Products Corp.: *See*—
Crone, Alfred F. 3,045,564.

Acme Industrial Co.: *See*—
Kozacka, Arthur G. 3,060,466.

Acme-McCrary Corp.: *See*—
Lewis, William H. 3,054,281.

Acme Roofing and Sheet Metal Co.: *See*—
Ayers, Chesley, and Bailey. 3,017,164.

Acme Steel Co.: *See*—
Brown, Fred L. 3,041,717.
Daniels, John F., and Hager. 3,031,949.
Dvorak, William W., and Gibson. 3,018,596.
Feldkamp, John G. 3,070,001.
Fullerton, Thomas J., and Schroeder. 3,70,237.
Grabowski, Edward W., and Johnson. 3,028,937.
Hall, Marchand B. 3,052,178.
Hall, Marchand B., Anderson, and Plattner. 3,032,075.
Hall, Marchand B., Anderson, and Staron. 3,021,876.
Mertens, Howard R. 3,031,816.
Moxley, Murray E. 3,057,661.
Novak, John V., and Hall. 3,034,384.
Rasmussen, George E. 3,042,221.
Reed, George H., and Ott. 3,052,425.
Scott, Andrew C. 3,037,444.
Vorrath, Elmer J., and Winkler. 3,059,386.
Wilson, Allen B. 3,061,921.
Wilson, Allen B., and Connell. 3,031,671.

Acme Visible Records, Inc.: *See*—
Fuller, James L., and Loyd. 3,056,506.
Loyd, Samuel A., Jr. 3,062,997.

Acomb, Byran H., R. Pennstrom, and D. W. Carkhuff, to Union Carbide Corp. Gas ratio controller. 3,029,840, 4–17–62, Cl. 137—609.

Acoplast Kunststoff-Verarbeitung G.m.b.H.: *See*—
Caspersen, Gerdt. 3,064,308.

Acosta-Lleras, Alfonso, to General Electric Co. Printed circuit boards. 3,033,914, 5–8–62, Cl. 174—68.5.

Acoustic Controls, Inc.: *See*—
Coffman, Moody L. 3,049,190.

Acoustica Associates, Inc.: *See*—
Llers, Arthur H. 3,064,466.
Rod, Robert L. 3,066,482.

Acquaderni, Pietro. Artificial ski-track constituted by brush-members. 3,047,292, 7–31–62, Cl. 272—56.5.

Acrow (Engineers) Ltd. : *See*—
Reynolds, Reginald, and Stammers.
Acrow-Wolff Gesellschaft mit beschrankter Haftung, Firma : *See*—
Dorn, Hans. 3,045,313.
Acterman, Joseph S. : *See*—
Slater, John M., and Acterman. 3,048,043.
Acton, Daniel D. : *See*—
Foss, George J., and Acton. 3,062,396.
Acton Laboratories, Inc. : *See*—
Belounge, Lawrence W. 3,052,802.
Bourque, Charles E. 3,054,169.
Forrest, John W. 3,063,264.
Forrest, John W. 3,066,502.
Mairs, William J. 3,070,768.
Perler, Frank R., and Di Bella. 3,021,494.
Acushnet Process Co. : *See*—
Ross, Marshall W. 3,035,358.
Young, Richard B. 3,036,310.
Adachi, Kazuo : *See*—
Nishioka, Kazuichi, Adachi, and T. Nishioka. 3,039,139.
Adachi, Nobuzo, to Danny Bramer Enterprises. Retracting reel apparatus. 3,062,478, 11–6–62, Cl. 242—107.
Adage, Inc. : *See*—
Young, Frink M., and Hagan. 3,052,880.
Adair, James R. : *See*—
O'Brien, Jeremiah W., and Adair. 3,062,470.
Adam Consolidated Industries, Inc. : *See*—
Nixon, Charles E. 3,054,710.
Adam, Frank, Electric Co. : *See*—
Andres, Cletus N. 3,056,870.
Adam, Hermann, to Anker-Phoenix-Nahmaschinen Aktiengesellschaft. Bobbin housing for double stitch sewing machines. 3,054,369, 9–18–62, Cl. 112—231.
Adam, Howard W., to International Minerals & Chemical Corp. Method of beneficiating mica. 3,016,139, 1–9–62 Cl. 209—8.
Adam, Howard W., and D. H. Fenske, to International Minerals & Chemical Corp. Beneficiation of phosphatic ores. 3,032,189, 5–1–62, Cl. 209—12.
Adam, Karl : *See*—
Knobloch, Erich, Adam, and Linnartz. 3,043,499.
Adam, Robert T. : *See*—
Katz, Arthur J., and Adam. 3,045,233.
Adamant Laboratories (Proprietary) Ltd. : *See*—
Custers, Jan F. H., Dyer, Senior, and Wedepohl. 3,061,877.
Adamek, Eduard G. : *See*—
Gaver, Kenneth M., Adamek, and Barton. 3,046,142.
Adamek, Stephen, and A. D. Dingle, to Dunlop Rubber Co. Ltd. Curing endocyclic ring containing hydrocarbon polymers with sulfur and peroxide. 3,033,835, 5–8–62, Cl. 260—79.5.
Adamorvske strojirny : *See*—
Jurny, Josef. 3,046,881.
Adams, Albert, and S. E. Tschappler, to International Minerals & Chemical Corp. Beneficiation of potash ore. 3,063,562, 11–13–62, Cl. 209—10.
Adams, Arthur H., and L. H. Perry, to J. E. Meagher. Mixing faucet. 3,056,418, 10–2–62, Cl. 137—119.
Adams, Bobby F., and J. H. Wotiz, to Diamond Alkali Co. Halogenated aromatic hydrocarbons stabilized with polyacetylenic hydrocarbons. 3,052,734, 9–4–62, Cl. 260—651.
Adams, Carsbie C. Electrode jelly. 3,048,549, 8–7–62, Cl. 252—518.
Adams, Cecil E., and J. P. Creek, to American Brake Shoe Co. Reversible flow control valve. 3,044,485, 7–17–62, Cl. 137—493.7.
Adams, Charles A., to Adams Engineering Co. Impact crusher. 3,058,679, 10–16–62, Cl. 241—275.
Adams, Charles J. : *See*—
Hutton, Robert W., Sigo, and Adams. 3,046,352.
Adams, Charles J., and E. W. Werts, to General Electric Co. Electromagnetic relay. 3,046,370, 7–24–62, Cl. 200—87.
Adams, Clinton W. : *See*—
Morris, John R., Schlicht, Adams, and Lawrence. 3,017,361.
Adams Corp., Korn Kurls Division : *See*—
McCleary, Eugene J., Jr., and Heigl. 3,018,715.
Adams, Dale W. Tri-dimensional radar. 3,023,408, 2–27–62, Cl. 343—7.9.
Adams, Daniel M., and C. E. Morphew, to General Motors Corp. Resilient bumper protecting means. 3,056,620, 10–2–62, Cl. 293—71.
Adams, Dennis A. W., and A. K. Sarkar, to Hickson & Welch Ltd. Hydrophilic optical whitening agents of the stilbyl triazole type. 3,048,584, 8–7–62, Cl. 260—240.
Adams, Dennis A. W., and A. K. Sarkar, to Hickson & Welch Ltd. Optical whitening agents of the stilbene triazole type. 3,063,994, 11–13–62, Cl. 260—240.
Adams, Dolor N., to Harris-Intertype Corp. Treatment of diazo-sensitized lithographic plates. 3,019,105, 1–30–62, Cl. 96—33.
Adams, Donald B., and D. P. Sullivan, to Curtiss-Wright Corp. Liquid cooling system for jet engines. 3,024,606, 3–13–62, Cl. 60—39.66.
Adams, Douglas P. Nomographic instruments. 3,018,552, 1–30–62, Cl. 33—1.
Adams, Dustin S., to E. I. du Pont de Nemours and Co. Process for preparing articles having sections with metallic luster alternating with sections which are clear. 3,069,726, 12–25–62, Cl. 18—48.
Adams, Dustin S., to E. I. du Pont de Nemours and Co. Shaped products. 3,069,747, 12–25–62, Cl. 28—82.
Adams, E. A., & Son, Inc. : *See*—
Evans, Andrew J. 3,054,157.
Adams, E. O. N., 20% to L. Lundgren. Collapsible lift bag. 3,060,987, 10–30–62, Cl. 150—48.
Adams, Elmer L., to Owens-Illinois Glass Co. Method for low pressure molding. 3,030,666, 4–24–62, Cl. 18—55.
Adams, Elmer L., to Owens-Illinois Glass Co. Forming and trimming hollow plastic articles. 3,031,718, 5–1–62, Cl. 18—5.
Adams, Elmer L., and J. G. Miller, to Owens-Illinois Glass Co. Method and apparatus for making plastic articles. 3,029,471, 4–17–62, Cl. 18—30.
Adams Engineering Co. : *See*—
Adams, Charles A. 3,058,679.
Adams, Ernest C., Jr., to Miles Laboratories, Inc. Diagnostic composition and method for determining protease activity. 3,063,915, 11–13–62, Cl. 195—103.5.
Adams, Ernest C., Jr., to Miles Laboratories, Inc. Process for preparing sodium acetylsalicylate. 3,064,038, 11–13–62, Cl. 260—480.
Adam, Folger. Jail locking devices and the like. 3,017,967, 1–23–62, Cl. 189—7.
Adams, Forrest R., to International Paper Co. Wet rub tester. 3,040,559, 6–26–62, Cl. 73—7.
Adams, Francis V. : *See*—
Rowley, Russell A., Adams, and Gaffney. 3,021,069.
Rowley, Russell A., Adams, and Gaffney. 3,046,527.
Adams, Frederick G., to The Bendix Corp. Control system for helicopter. 3,061,240, 10–30–62, Cl. 244—17.15—296.
Adams, Frederick J., to Hydrosteer Ltd. Vehicular steering gear. 3,037,485, 6–5–62, Cl. 121—38.
Adams, George P., to Western Electric Co., Inc. Apparatus for forming spring-like articles. 3,016,571, 1–16–62, Cl. 18—5.
Adams, George P., and V. A. Rayburn, to Western Electric Co., Inc. Material dispensing and applicating apparatus. 3,052,208, 9–4–62, Cl. 118—2.
Adams, Gilbert T., to Dover Corp. Power operator for elevator doors and the like. 3,049,657, 8–14–62, Cl. 318—296.
Adams, Harold A., ½ to C. Smith, ½ to M. Stubbs, ½ to J. Parlier, ½ to L. Becas, and ½ to D. Galey. Method and apparatus for dispensing trading stamps. 3,061,162, 10–30–62, Cl. 226—110.
Adams, Harold E., to Nash Engineering Co. Booster pumps. 3,015,602, 7–24–62, Cl. 103—113.
Adams, Irving, and G. A. Wolff, to United States of America, Army. Red emitting electroluminescent aluminum nitride. 3,036,014, 5–22–62, Cl. 252—301.4.
Adams, James M. : *See*—
Thomas, Horace F., and Adams. 3,032,278.
Adams, James S. : *See*—
Tava, Alben J., Adams, and Annunziato. 3,059,229.
Adams, James W., and L. J. Bernardin, to American Can Co. Fibrous sheet material. 3,028,296, 4–3–62, Cl. 162—146.
Adams, Joe T. : *See*—
Guest, Howard R., Adams, and Kiff. 3,023,222.
Guest, Howard R., Adams, and Stansbury. 3,043,850.
Sookne, Arnold, Galligan, Guest, and Adams. 3,024,135.
Adams, John W. : *See*—
Carlson, Everett C., and Adams. 3,057,416.
Adams, Lowell V., and L. Siniawsky, to Philco Corp. Laundry equipment. 3,043,478, 7–10–62, Cl. 222—70.
Adams-Millis Corp. : *See*—
Marlette, Goley R., and Barrow. 3,028,739.
Adams, Milton R., J. L. Peczkowski, and F. J. Jandrasi, to The Bendix Corp. Isochronous governor. 3,070,073, 12–25–62, Cl. 121—42.
Adams, Myron D., C. W. Johnson, E. J. Chojnowski, A. M. Eisner, J. Elich, and H. Glick, to The Western Union Telegraph Co. Telegraph switching system. 3,057,956, 10–9–62, Cl. 178—23.
Adams, Nicholas M., to Nalco Chemical Co. Metal lubricant. 3,031,749, 5–1–62, Cl. 29—528.
Adams, Norman I., III. Spectroscopy apparatus. 3,045,534, 7–24–62, Cl. 88—14.
Adams, Paul L., H. E. Zimmerman, and H. G. Bailey, to Caradco Inc. Board making apparatus. 3,066,722, 12–4–62, Cl. 156—470.
Adams, Paul R., and E. C. L. de Faymoreau, to International Telephone and Telegraph Corp. System for supporting and/or controlling bodies. 3,048,044, 8–7–62, Cl. 74—5.47.
Adams, Percy R. : *See*—
Crane, Thomas A., and Adams. 3,041,157.
Adams, Philip T. : *See*—
Barry, William B., and Adams. 3,050,107.
Adams, Phillip, and S. Beinfest, to Berkeley Chemical Corp. Method of preparing phenothiazine-10-carboxylic acid chloride. 3,070,598, 12–25–62, Cl. 260—243.
Adams, Pierrepont, and L. E. Knees, to Reeves Soundcraft Corp. Magnetic iron oxide coating compositions for recording tape. 3,042,639, 7–3–62, Cl. 260—23.
Adams, Richard C., to International Postal Supply Corp. Document feeding apparatus. 3,070,368, 12–25–62, Cl. 271—36.
Adams, Richard F., to Olin Mathieson Chemical Corp. Method for forming hollow sheet metal panels. 3,045,618, 7–24–62, Cl. 113—51.

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Woodworth, John A., Reeve, and Noah. 3,019,043.
Adams, Robert T.: *See*—
Van Vechten, Richard K., and Adams. 3,020,416.
Adams, Robert T., to International Telephone and Telegraph Corp. Crystal controlled oscillator circuit with frequency control means. 3,054,973, 9–18–62, Cl. 332—27.
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Adams, Rudolph A.: *See*—
Haloski, Frank, and Adams. 3,069,094.
Adams, Thomas C., Jr. Continuous electrical connection. 3,044,035, 7–10–62, Cl. 339—21.
Adams, Thomas E., to Associated Electrical Industries (Rugby) Ltd. Compensators for fluid ducting. 3,066,960, 12–4–62, Cl. 285—114.
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Adamski, Joseph, to Dura Corp. Convertible top. 3,036,859, 5–29–62, Cl. 296—116.
Adamson, A. M.: *See*—
Hurd, Frank K. 3,042,298.
Adamson, Arthur P., and K. Berman, to General Electric Co. Heightable solid rocket motor. 3,065,597, 11–27–62, Cl. 60—35.3.
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Bichsel, Harry J., and Adamson. 3,069,533.
Adamson, Floyd E., and H. J. Bichsel, to Westinghouse Electric Corp. Arc welding apparatus. 3,048,693, 8–7–62, Cl. 219—131.
Adamson, Jack F. Fence wire retaining insulating device. 3,019,288, 1–30–62. Cl. 174—158.
Adamson United Co.: *See*—
Obarski, Richard W., Trishman, and Seanor. 3,060,734.
Adams-Ray, Jack, and P. Persson, to R. M. Kindal. Body tempering apparatus. 3,051,180, 8–28–62, Cl. 128—373.
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Adank, Kurt: *See*—
Viscontini, Max F. A., and Adank. 3,056,800.
Adaptaplex Mfg. Co.: *See*—
Brittsan, Ronald R. 3,067,536.
Adcock, Joseph N., to The United Steel Companies Ltd. Apparatus for cooling hot metal strip or plate by laminar liquid flow. 3,025,865, 3–20–62, Cl. 134—122.
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Addamiano, Arrigo, to General Electric Co. Method of preparing single crystal materials. 3,022,144, 2–20–62, Cl. 23—294.
Addicks, Mentor C.: *See*—
MacMillan, John H., Jr. 3,015,373.
Addie, Albert N., to General Motors Corp. Turbine. 3,048,-452, 8–7–62, Cl. 308—26.
Addie, Albert N., and J. J. Kotlin, to General Motors Corp. Lubrication systems and protective controls for turbocharged engines. 3,043,092, 7–10–62, Cl. 60—13.
Addie, Albert N., and M. Ephraim, Jr., to General Motors Corp. Lubrication systems and protective controls for turbocharged engines. 3,045,419, 7–24–62, Cl. 60—13.
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Addleburg, John W., G. R. Lappin, and B. P. Rouse, Jr., to Eastman Kodak Co. Stabilized poly-a-olefin compositions. 3,045,797, 7–10–62, Cl. 260—45.85.
Addleman, Lloyd A., to Microwave Engineering Laboratories, Inc. Image rejection systems. 3,070,747, 12–25–62, Cl. 325—437.
Addo, Aktiebolaget: *See*—
Lydfors, John. 3,016,188.
Addressograph-Multigraph Corp.: *See*—
Biddle, Stanley R. 3,068,140.
Brownsey, Horace P. 3,019,017.
Erickson, Donald L. 3,055,298.
Gammeter, Harry F., and Bohnert. 3,056,346.
Gollwitzer, Walter T. 3,060,849.
Hampton, William J., and Hueber. 3,029,726.
Janke, Edward J. 3,046,877.
Lake, Francis K. 3,019,645.
Lake, Francis K. 3,019,727.
Marshall, Kenneth L. 3,059,922.
Maul, John A., Prugge, and Anderson. 3,018,725.
Patalon, Francis R. 3,022,998.
Sallach, Max E. 3,069,075.
Sallach, Max E., and Smith. 3,027,070.
Seifried, Lyle W. 3,029,920.
Van Dusen, Charles H., Jr. 3,031,957.
Wike, Albert F., and Beaver. 3,018,723.
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Adel, Alf F. to Raytheon Co. Electric selectors. 3,024,402, 3–6–62, Cl. 318—467.
Adell Chemical Corp.: *See*—
Adell, Robert. 3,033,403.
Adell, Robert. 3,033,404.
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Adequate Weighers Ltd.: *See*—
Brown, Sidney C. 3,065,809.
Adhikary, Pashu: *See*—
Singh, Jagdish, and Adhikary. 3,053,177.
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Adie, George M., to The Dow Chemical Co. Foamed construction element. 3,043,730, 7–10–62, Cl. 154—45.9.
Adie, George M. Structural elements. 3,066,059, 11–27–62, Cl. 154—45.
Adiletta, Joseph G., to American Machine & Foundry Co. Filter material. 3,053,762, 9–11–62, Cl. 210—507.
Adinoff, Bernard, and I. C. Wilson, ½ to Dayco Corp., and ½ to The B. F. Goodrich Co. Foam rubber apparatus. 3,068,523, 12–18–62, Cl. 18—39.
Adir-Apparecchi di Raffreddamento S.r.l.: *See*—
Ruggieri, Egidio. 3,034,305.
Adise, Herbert H. Motion translator. 3,060,731, 10–30–62, Cl. 73—141.
Adkins, Cassie E.: *See*—
Smith, Joe D. 3,067,842.
Adkins, Harold T.: *See*—
Schneyer, Raymond I., and Adkins. 3,023,724.
Adkins, Loren N. Scale reducing device for sighting instruments. 3,019,531, 2–6–62, Cl. 33—67.
Adkins, Ralph M.: *See*—
Moore, Robert E., and Adkins. 3,050,064.
Adlake Co., The: *See*—
Ehret, Yale W. 3,067,905.
Adler, Carl: *See*—
Gerth, Sol R., Katz, Adler, and Spercel. 3,026,104.
Adler, Charles R.: *See*—
Miller, Frank D., and Adler. 3,017,289.
Adler, Clarence E., to Toledo Scale Corp. Bowden cable drive for positioning a settable member. 3,068,718, 12–18–62, Cl. 74—501.
Adler, Clarence E., and D. L. Hall, to Toledo Scale Corp. Decoder. 3,057,547, 10–9–62, Cl. 235—1.
Adler, Edward I., to M. A. Coler. Process for making battery electrodes. 3,024,296, 3–6–62, Cl. 136—24.
Adler, Franklin P.: *See*—
Meyers, George C., and Adler. 3,035,530.
Adler, Herman G.: *See*—
Welch, Lewis W., Millington, and Adler. 3,058,356.

Adler, Paul W., to B. H. Hadley. Shrapnel packaging. 3,026,804, 3–27–62, Cl. 102—67.
Adler, Paul W., to B. H. Hadley. Packaging rectangular objects and embedding them in matrix. 3,027,694, 4–3–62, Cl. 53—24.
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Adler, Robert, and W. S. Druz, to Zenith Radio Corp. Subscription television system. 3,029,308, 4–10–62, Cl. 179—1.5.
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Adler, Solomon, to Nippon Sewing Machine Mfg. Co., Ltd. Sewing machine. 3,053,207, 9–11–62, Cl. 112—158.
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Adloff, Jakob A., O. Haertel, and W. Riehl, to General Motors Corp. Automatic clutch for motor vehicles. 3,053,366, 9–11–62, Cl. 169—85.
Admiral Corp.: *See*—
Beam, Howard A. 3,034,062.
Carlson, Reuben C. 3,028,582.
Carlson, Reuben C. 3,040,599.
Carlson, Reuben C. 3,056,957.
Carlson, Reuben C., Schrecongost, and Henke. 3,027,497.
Floyd, Earl C. 3,062,915.
Gardberg, Joseph. 3,041,519.
Guzskie, Stanley, Holpuch, and Marks. 3,033,930.
Hammerand, Donald J. 3,058,790.
Marks, Meyer. 3,052,848.
Marks, Meyer. 3,056,928.
Marks, Meyer, and Schrecongost. 3,029,305.
Scheeler, Frederick H., and Carrozza. 3,033,563.
Schrecongost, Ray B. 3,015,752.
Schrecongost, Ray B. 3,041,394.
Sielaff, William G. 3,054,380.
Squire, Herbert D. 3,018,685.
Vistain, James E., Jr. 3,048,144.
Admiral Plastics Corp.: *See*—
Fishman, Aaron H. 3,020,572.
Admos, Inc.: *See*—
Blake, Howard C. 3,066,828.
McClelland, James F., Jr. 3,064,783.
Nagy, Alexander J. 3,064,784.
Adolph, John L. Explosive power activated mechanisms. 3,045,242, 7–24–62, Cl. 1—44.5.
Adolphi, Heinrich: *See*—
Pohlemann, Heinz, Schoeder, Stummeyer, and Adolphi. 3,051,488.
Adolphson, Roy T.: *See*—
Shampaine, Hyman R., Adolphson, and Douglass. 3,028,732.
Shampaine, Hyman R., Adolphson, and Douglass. 3,046,071.
Smith, William H., Frohner, and Adolphson. 3,070,086.
Adomshick, George J., and R. G. Quinn, to Johns-Manville Corp. Mounting for electric resistance elements and method for preparing the same. 3,053,727, 9–11–62, Cl. 162—136.
Adox-Fotowerke Dr. C. Schleussner G.m.b.H, Kamerawerk: *See*—
Steinmetz, Helmut, Hell, and Koeppe. 3,066,642.
Adox Kamerawerk G.m.b.H.: *See*—
Hell, Hans. 3,066,588.
Hell, Hans, and Koeppe. 3,059,556.
Adrema-Werke G.m.b.H.: *See*—
Güttel, Gerhard. 3,042,175.
Advance Floor Machine Co.: *See*—
Arones, Daniel A. 3,065,490.
Advance Food Service Equipment, Inc.: *See*—
Schwartz, Milton. 3,041,777.
Advance Growth Capital Corp.: *See*—
Rubin, Martin. 3,069,269.
Advance Transformer Co.: *See*—
Cheske, William J. 3,015,682.
Feinberg, Albert E. 3,038,135.
Feinberg, Albert E. 3,040,208.
Feinberg, Albert E. 3,050 659.
Feinberg, Albert E. 3,069,597.
Feinberg, Albert E., and Endo. 3,023,385.
Spector, Morris. 3,061,759.
Sulzer, Robert I. 3,049,579.
Advanced Development Assn., Ltd.: *See*—
Barnes, Percy J. 3,046,398.
Advanced Oil Tools, Inc.: *See*—
Edwards, Edwin D., and Hach. 3,019,781.
Aebi, Hans: *See*—
Martin, Henry, and Aebi. 3,060,235.
Aegerter, Pierre, to Compagnie Generale de Telegraphie Sans Fil. Ferrite rotator devices. 3,034,080, 5–8–62, Cl. 333—98.
Aeon Industries, Inc.: *See*—
Golding, Fred E. 3,035,278.
Aerazur Constructions Aeronautiques S.A.: *See*—
Bernard, Jean-Paul. 3,069,118.
Aerial Products, Inc.: *See*—
Robertson, Anthony E. 3,027,304.
Aerialmatic Co. Ltd.: *See*—
Lawrence, Frank L. 3,032,322.
Aerialmatic Engineering Ltd.: *See*—
Lawrence, Frank L. 3,045,974.
Aero & Engineering (Merseyside) Ltd.: *See*—
Hooper, Edward. 3,050,078.
Hooper, Edward. 3,050,272.
Hooper, Edward. 3,067,954.
Aero Gasket Corp.: *See*—
Schmitt, Raymond C. 3,015,465.
Aero Research Instrument Co., Inc.: *See*—
Erlebacher, Gunther. 3,048,641.
Scadron, Marvin D. 3,030,807.
Scadron, Marvin D., and Cousins. 3,032,444.
Aero Service Corp.: *See*—
List, Joseph F. 3,049,813.
Aero Service Inc.: *See*—
Myers, Donald E., List, and Bowman. 3,050,872.
Aerofall Mills Inc.: *See*—
MacPherson, Arthur R., and Turner. 3,017,993.
Turner, Robert. 3,058,675.
Aerofin Corp.: *See*—
Stikeleather, Robert M. 3,054,313.
Aeroil Products Co., Inc.: *See*—
Schreter, Robert E., and Turpin. 3,033,245.
Aerojet-General Corp.: *See*—
Apoduca, Albert R., and Griswold. 3,054,351.
Argyle, Sidney C. 3,068,740.
Atanasoff, John V. and T. B., Beecher, Long, Tabler, Macrum, and Selzer. 3,033,366.
Banerian, Gordon. 3,058,786.
Batchelder, George W., and Zimmerman. 3,058,858.
Borrow, Charles J. 3,062,503.
Brown, Lloyd H. 3,020,261.
Chesnut, John D. 3,031,964.
Coplen, Herman L., Jr. 3,062,237.
Cox, Robert B. 3,041,164.
Douglas, William A., and Datner. 3,044,711.
Easton, Edward A. 3,044,399.
Feldmaan, Fritz K., Gehlhaar, Herrmann, and Petre. 3,067,682.
Fowler, Blair B. 3,026,047.
Fowler, Blair B. 3,038,530.
Fowler, Blair B., and Young. 3,058,397.
Fowler, Blair B., Young, and Griswold. 3,034,568.
Frankel, Milton B. 3,041,337.
Frankel, Milton B., and Klager. 3,029,285.
Frankel, Milton B., and Klager. 3,031,492.
Garcia, Gustavo. 3,046,147.
Geckler, Richard D. 3,015,209.
Gold, Marvin H., and Linden. 3,020,318.
Gongwer, Calvin A. 3,019,687.
Graefe, Allen F., and Meyer. 3,070,596.
Grube, Robert H. 3,038,990.
Hanes, Vaughan D. 3,024,843.
Hanes, Vaughan D. 3,024,844.
Hanes, Vaughan D. 3,029,872.
Hanes, Vaughan D. 3,029,873.
Hanes, Vaughan D. 3,045,081.
Hanes, Vaughan D. 3,062,295.
Hanes, Vaughan D., and Zernow. 3,032,110.
Kimpel, Robert F. 3,069,278.
Kimpel, Robert F., and Evleth. 3,057,148.
Klager, Karl. 3,020,317.
Klager, Karl. 3,024,288.
Klager, Karl, and Kispersky. 3,041,382.
Klager, Karl, and Linden. 3,020,319.
Leinweber, Clarence L., and Corbitt. 3,057,149.
Lieberman, Irvin, Zernow, and Hogan. 3,034,393.
Migdal, Nicholas T., and Feller. 3,060,722.
Miller, James D., Gordon, and Davis. 3,043,898.
Philipson, Joseph. 3,031,289.
Philipson, Joseph. 3,031,347.
Randolph, Carl L., Jr., and Meyer. 3,050,560.
Roberts, Roy F. 3,031,288.
Schneiderman, Herman, Bendarzewski, and Barney. 3,021,241.
Schultz, Robert D., and Randolph. 3,020,127.
Schultz, Robert D., and Randolph. 3,069,236.
Schultz, Robert D., and Randolph. 3,069,237.
Thackrey, James D. 3,038,302.
Wilson, E Milton. 3,043,099.
Young, David A. 3,033,426.
Zwicky, Fritz. 3,044,252.
Zwicky, Fritz. 3,044,253.
Zwicky, Fritz, and Ewing. 3,048,007.
Aeromix, Etablissement: *See*—
Schmid, Otto. 3,016,979.
Aero-Motive Mfg. Co.: *See*—
Becker, Rodger F. 3,021,089.
Becker, Rodger F. 3,021,090.
Becker, Rodger F. 3,066,885.
De Pew, Chester C. 3,069,191.
Aeronautical Engineering Research, Inc.: *See*—
Oliver, Robert E. 3,056,209.

Aeroplast Corp.: *See*—
Blanford, William F., and Dempsey. 3,045,878.

Aeroprojects, Inc.: *See*—
Brown, Walter J. 3,040,496.
Elmore, William C., and De Prisco. 3,017,792.
Elmore, William C., and De Prisco. 3,054,309.
Jones, James B. 3,029,766.
Jones, James B. 3,038,358.
Jones, James B., De Prisco, and Weismantel. 3,039,333.
Jones, James B., and Weismantel. 3,038,359.

Aeroquip Corp.: *See*—
Bacher, Hans E., and La Marre. 3,044,163.
Bacher, Hans E., and La Marre. 3,055,682.
Christophersen, Clarence E. 3,058,761.
Cline, William M., and Clemons. 3,019,038.
Contreras, Gilbert E., and Graves. 3,016,249.
Elsner, Edwin C. 3,017,679.
Elsner, Edwin C., and White. 3,065,987.
Felburg, William F., and Meugnoit. 3,059,947.
Graves, Robert W. 3,051,515.
Sharon, Wilfred L., and Lutz. 3,035,999.
Willis, William M. 3,026,128.

Aeroquip G.m.b.H.: *See*—
Haensch, Paul. 3,061,320.

Aerorox Corp.: *See*—
Ciancarelli, Maggio. 3,060,392.

Aeroscience, Inc.: *See*—
Ganahl, Joseph F. 3,015,231.
Young, Shirrel R. 3,063,670.

Aerotec Industries, Inc.: *See*—
Oliveau, John V. 3,024,052.
Oliveau, John V. 3,027,771.
Spielman, James F. 3,019,050.
Spielman, James F. 3,059,966.

Aer-O-Torq Inc.: *See*—
Johnson, Robert K., and Cieconi. 3,037,539.

Aerovap Holdings Ltd.: *See*—
Whitney, Goeffrey F. H., Baker, and Whitfield. 3,027,-678.

Aerovox Corp.: *See*—
Golenpaul, Charles. 3,053,602.
Grad, Peter P. 3,055,777.

Aerpat A.G.: *See*—
Chapman, David Z. 3,037,256.
De Pew, Chester C. 3,065,011.
Frick, Norval. 3,053,559.
Gray, Eugene B., and De Pew. 3,043,563.
Myers, Paul D. 3,049,327.
Price, Duane W., and Chapman. 3,052,148.
Sellers, Gose B. 3,052,940.

Aer-Van Inc.: *See*—
Miles, John E. 3,041,956.

Aesup, Etablissements: *See*—
Woog, Philippe G. 3,060,474.

Aetna Steel Products Corp.: *See*—
Bohnsack, John A. 3,019,862.
Bohnsack, John A. 3,039,569.
Graff, Raymond K. 3,035,669.
Graff, Raymond K. 3,063,522.

Affelder, Harry F., to The Wolf Detroit Envelope Co. Envelope making machine. 3,023,128, 2–27–62, Cl. 117—111.

Affeldt, Walter A., to Allis-Chalmers Mfg. Co. Coupling. 3,044,813, 7–17–62, Cl. 287—114.

Affiliated Laboratories Corp.: *See*—
Bass, Edmund P. 3,048,524.

Afico, A.G.: *See*—
Wenner, Valentin, and Hirtler. 3,065,076.

Afico, S.A.: *See*—
Abt, Walter. 3,058,630.
Mishkin, Abraham R., and Marsh. 3,065,077.
Schaltegger, Herbert E. 3,026,989.
Schaltegger, Herbert E. 3,041,068.

African Explosives and Chemical Industries Ltd.: *See*—
Aarts, Willem H., and Goldie. 3,030,802.

African Metals Corp. Ltd.: *See*—
Smit, Nimrod, and Coetzee. 3,053,624.

Agaballanz, Georgii G. A., Merzhanian, and S. A. Broosilovski. Method of champagnizing wine in a continuous stream and installation for same. 3,062,656, 11–6–62, Cl. 99—41.

Agamennone, Marco: *See*—
Marullo, Gerlando, Agamennone, and Corsi. 3,052,724.

Agarwal, Jagdish C., C. M. Sciulli, and R. L. Stephenson, to United States Steel Corp. Method of operating a blast furnace. 3,062,640, 11–6–62, Cl. 75—42.

Agence de Representations Directes pour La Defense des Interets Commerciaux and Usines Schloesing Freres & Cia: *See*—
Cuille, Jean, and Guyot. 3,030,266.

Agency of Industrial Science and Technology, Ministry of International Trade and Industry: *See*—
Kubota, Masao. 3,052,951.
Munakata, Mousuke, and Asahara. 3,020,238.
Tsujiuchi, Jumpei. 3,045,530.

Agens, Maynard C., to General Electric Co. Seal material. 3,020,056, 2–6–62, Cl. 277—237.

Agens, Maynard C., to General Electric Co. Photosensitive resin compositions. 3,031,301, 4–24–62, Cl. 96—27.

Agenturfirma Emvebe M. Berg: *See*—
Berg, Manfred V. 3,056,196.
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Agerbek-Poulsen, Sven, and H. E. Saunders, to Mast Development Co., Inc. Bubbling trace element detector. 3,031,-272, 4–24–62, Cl. 23—254.

Ages, Frederik J., to Minneapolis-Honeywell Regulator Co. Manifold valve. 3,064,900, 11–20–62, Cl. 236—1.

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Baur, Carl, and Burger. 3,055,282.
Baur, Carl, Burger, and Notzl. 3,070,389.
Baur, Carl, and Konigl. 3,041,919.
Baur, Carl, and Otzen. 3,033,081.
Biedermann, Friedrich, and Pregl. 3,048,081.
Biedermann, Friedrich, and Wick. 3,034,400.
Biedermann, Friedrich, Wick, and Pfeifer. 3,060,434.
Bunge, Wilhelm, Seibert, and Haydn. 3,025,160.
Engelsmann, Dieter. 3,063,352.
Geiger, Julius, Ossenbrunner, and Coenen. 3,018,177.
Gotze, Johannes. 3,044,875.
Heckelmann, Karlheinz, and Hebbel. 3,022,169.
Hellmig, Erhard. 3,035,913.
Herzhoff, Peter, and Gref. 3,055,338.
Himmelmann, Wolfgang, Von Rintelen, and Wahl. 3,061,436.
Kaden, Willy. 3,015,999.
Kaden, Willy. 3,038,373.
Kaden, Willy, and Filsinger. 3,025,752.
Kaüfer, Helmut, Deeg, and Schwab. 3,064,795.
Kiper, Gerd. 3,056,340.
Kiper, Gerd. 3,060,889.
Kiper, Gerd, and Ehgartner. 3,067,662.
Kremp, Rudolf, and Frost. 3,017,805.
Landbrecht, Franz. 3,020,815.
Lassig, Wolfgang. 3,062,124.
Lässig, Wolfgang, and Gunther. 3,063,837.
Loffler, Karl. 3,028,237.
Menzel, Karl-Heinz, Wahl, and Pelz. 3,061,432.
Neudecker, Karl, and Thate. 3,069,988.
Ossenbrunner, Armin, and Klockgether. 3,022,171.
Ossenbrunner, Armin, Klockgether, and Kruck. 3,025,-163.
Ossenbrunner, Armin, Schnell, Klockgether, Geiger, and Freier. 3,023,101.
Puschel, Walter, Wahl, Pelz, and Schellenberger. 3,028,-238.
Renner, Otfried, and Zattler. 3,035,502.
Schmidt, Hans R. 3,060,830.
Seizinger, August. 3,021,158.
Wagner, Ferdinand, Brandt, and Müller. 3,048,220.
Weyde, Edith. 3,043,691.
Weyde, Edith. 3,067,033.
Wick, Richard. 3,036,494.
Winkler, Alfred. 3,026,783.
Winkler, Alfred. 3,033,090.
Winkler, Alfred. 3,063,336.
Winkler, Alfred, and Becker. 3,069,969.

Agfa Aktiengesellschaft, Firma: *See*—
Baur, Carl, and Otzen. 3,029,698.
Kremp, Rudolf. 3,067,663.
Wick, Richard, and Brandt. 3,043,218.

Aggen, George: *See*—
Dyrkacz, Wasil W., Reynolds, and Aggen. 3,065,068.
Fuller, Richard K., Reynolds, and Aggen. 3,051,565.

Aggen, George, to Allegheny Ludlum Steel Corp. Austenitic alloy. 3,065,067, 11–20–62, Cl. 75—124.

Aggregates Equipment, Inc.: *See*—
McCorkel, Franklin M., and Healy. 3,070,231.

Aggson, Robert E., 49% to E. E. Parker. Vented wall flue. 3,046,976, 7–31–62, Cl. 126—316.

Aghajanian, Haroutioun A., to International Business Machines Corp. Low flux density ferromagnetic material. 3,065,182, 11–20–62, Cl. 252—62.5.

Aghnides, Elie P. Ash tray with improved means for extinguishing cigarettes. 3,037,513, 6–5–62, Cl. 131—235.

Aghnides, Elie P. Steering means for tandem wheel vehicle having tilted axles. 3,043,391, 7–10–62, Cl. 180—79.2.

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AGIE, A.G. fur Industrielle Elektronik: *See*—
Ullmann, Werner, and Waninger. 3,041,442.

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Agne, Robert J., to Commercial Solvents Corp. Process for the production of hydroxyl-ammonium acid sulfate. 3,066,-011, 11–27–62, Cl. 23—117.

Agnello, Eugene J.: *See*—
Pinson, Ellis R., Jr., Agnello, and Laubach. 3,033,747.
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Pinson, Ellis R., Jr., Agnello, and Laubach. 3,033,874.

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Agnello, Eugene J., and G. D. Laubach, to Chas. Pfizer & Co., Inc. 17β-(2,3-epoxidopropenoyl)-substituted androstenes. 3,031,444, 4–24–62, Cl. 260—239.55.

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Agnese, Joseph M. Burglar-proof lock. 3,039,807, 6–19–62, Cl. 292—346.

Agnew, Robert J., J. K. Truitt, and W. D. Robertson, to Texaco Inc. Antifreeze composition. 3,030,308, 4–17–62, Cl. 252—74.

Agni, Edward S.: *See*—
Hurley, Roy T., and Agni. 3,066,753.

Agombar, Arthur B.: *See*—
Agombar, Edward D. and A. B. 3,044,170.

Agombar, Edward D. and A. B. Cable sheath slitting device. 3,044,170, 7–17–62, Cl. 30—91.

Agostini, Dominic J. Protective garment. 3,024,466, 3–13–62, Cl. 2—49.

Agostini, Victor A. Fishhook retriever. 3,029,542, 4–17–62, Cl. 43—17.2.

Agrashell, Inc.: *See*—
Ayers, Joseph W. 3,017,303.
Rinse, Jacobs. 3,054,816.
Rinse, Jacobus, and Dontje. 3,056,725.

Ågren, Per T.: *See*—
Andersson, Anders R., and Ågren. 3,019,286.

Ågren, Per, to Allmänna Svenska Elektriska Aktiebolaget. Device for the production of mats from yarns of fibrous material. 3,035,327, 5–22–62, Cl. 28—1.

Agricola Reg. Trust: *See*—
Hacklander, Karl H. 3,035,280.

Agriss, Norton, and J. L. Fallick. Resilient packing sheet. 3,018,015, 1–23–62, Cl. 217—53.

Agron, Albert, and R. A. Clifford. Electrical connector. 3,040,287, 6–19–62, Cl. 339—94.

Agruss, Meyer S.: *See*—
Sites, Benjamin L., and Agruss. 3,041,203.
Sites, Benjamin L., and Agruss. 3,047,422.
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Sites, Benjamin L., and Agruss. 3,051,591.
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Agusta, Domenico, to M. V. Meccanica Verghera S.p.A. Helicopter training apparatus. 3,067,528, 12–11–62, Cl. 35—12.

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Ahern, John E., to The Marquardt Corp. Apparatus and method of utilizing the conversion of parahydrogen to orthohydrogen to obtain a refrigerating effect. 3,043,110, 7–10–62, Cl. 62—4.

Ahern, Ronald A.: *See*—
Pocock, Frederick, and Ahern. 3,031,883.

Ahlbeck, Richard A., and J. W. Smith, to Plas-Tainer Inc. Method and apparatus for blow molding plastic material. 3,068,511, 12–18–62, Cl. 18—5.

Ahlberg, Jack E. Boat trailers. 3,028,982, 4–10–62, Cl. 214—85.1.

Ahlberg, Roy A.: *See*—
Gregson, Alvero C., Ahlberg, and Ferri. 3,048,828.

Ahlbin, Fred E. Power driven cable winch and drive and brake means thereof. 3,051,447, 8–28–62, Cl. 254—187.

Ahlbin, Fred E. Boat trailer unloader. 3,069,038, 12–18–62, Cl. 214—505.

Ahlbor, Valter A., and H. O. Neumann, to Arenco Aktiebolag. Boxes. 3,018,031, 1–23–62, Cl. 229—44.

Ahlborn, John C.: *See*—
Chapman, Ronald W., Ahlborn, and Dille. 3,044,179.
Dille, Roger M., Chapman, and Ahlborn. 3,016,886.

Ahlburg, Frank, to Sunkist Growers, Inc. Marking apparatus. 3,068,785, 12–18–62, Cl. 101—37.

Ahlgren, Axel W., to Amerock Corp. Hinge. 3,015,126, 1–2–62, Cl. 16—168.

Ahlgren, Axel W., to Amerock Corp. Magnetic catch. 3,026,134, 3–20–62, Cl. 292—251.5.

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Aho, Edwin: *See*—
Kohler, Theodor B., and Aho. 3,051,534.

Aho, Eemil L. Supporting device for nether-garments. 3,015,109, 1–2–62, Cl. 2—202.

Ahrens, Erhard, J. Schultes, A. Mies, and W. Kriebel, to Electroacustic G.m.b.H. Submarine sonic device. 3,045,206, 7–17–62. Cl. 340—3.

Ahrens, Hermann H. F., to Daimler-Benz Aktiengesellschaft. Storage area within motor transports. 3,019,047, 1–30–62, Cl. 296—28.

Ahsmann, Gerardus J. M., to North American Philips Co., Inc. Glow discharge tubes. 3,020,436, 2–6–62, Cl. 313—213.

Ahtiainen, Iisakki, to IA Light-Weight Brick Construction, Inc. Brick construction. 3,025,641, 3–20–62, Cl. 50—354.

Aia, Michael A., to Sylvania Electric Products Inc. Homogeneous precipitation of dibasic alkaline earth phosphates. 3,065,053, 11–20–62, Cl. 23—109.

Aia, Michael A., to Sylvania Electric Products Inc. Process of preparing luminescent grade dibasic calcium phosphate. 3,068,067, 12–11–62, Cl. 23—109.

Aichi Kogyo Kabushiki Kaisha: *See*—
Takeromi, Bunsaku. 3,026,832.

Aichroth, Richard W.: *See*—
Sailor, Vance L., and Aichroth. 3,067,365.

Aid, Douglas G., and G. H. Balding, to Kaiser Industries Corp. Visual contact analog. 3,037,382, 6–5–62, Cl. 73—178.

Aida, Ko: *See*—
Asai, Toshinobu, Aida, Iizuka, and Kajiwara. 3,036,958.

Aida, Masao, and K. Ishizaki, to Yawata Welding Electrode Co., Ltd. Covered arc welding electrode. 3,036,205, 5–22–62, Cl. 219—146.

Aidn, Martin: *See*—
Bauder, Josef, Fischer, and Aidn. 3,043,500.

Aielli, Richard J. Shirt pockets. 3,029,442, 4–17–62, Cl. 2—249.

Aiello, Frank D. Can handle. 3,029,975, 4–17–62, Cl. 220—85.

Aihara, Masumi, to Yawata Iron and Steel Co., Ltd. Multi-furnace for refining metal. 3,060,014, 10–23–62, Cl. 75—43.

Aiken, William R., to Kaiser Industries Corp. Electronic device. 3,023,316, 2–27–62, Cl. 250—217.

Aikens, James P., to Bausch & Lomb Inc. Polyester resinous coating for spectacle temple bars. 3,042,548, 7–3–62, Cl. 117—113.

Aileen Mills Co.: *See*—
Riddle, Frank W. 3,035,326.
Riddle, Frank W. 3,059,307.

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Ainsworth, Chester D., to Allis-Chalmers Mfg. Co. Vacuum switch actuated by fluid pressure impulse means. 3,065,-321, 11–20–62, Cl. 200—144.

Ainsworth, Frank W., to Minneapolis-Honeywell Regulator Co. Control apparatus. 3,030,814, 4–24–62, Cl. 73—503.

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Ainsworth, Wm., & Sons, Inc.: *See*—
Baur, Fritz. 3,019,846.

Airaterra: *See*—
Griffith, Leonard F. 3,038,493.
Vogt, Clarence L. 3,055,217.

Airborne Accessories Corp.: *See*—
Fuchs, Louis. 3,059,727.

Air Control Products, Inc.: *See*—
Leigh, Robert L. 3,019,836.
Leigh, Robert L. 3,051,071.

Air Controls, Inc.: *See*—
Friedman, Arthur E., and Kennedy. 3,041,709.

Aircraft Armaments, Inc.: *See*—
Barr, Irwin R. 3,039,364.
Barr, Irwin R. 3,039,757.
Barr, Irwin R. 3,058,398.
Hammond, John W. 3,034,063.
Harper, John T., and Askins. 3,039,797.
Hibinger, Albert R. 3,047,821.
Knapp, Phillip M. 3,047,723.
La Costa, Nicholas J., and Brown. 3,051,086.
Long, Omer M. 3,019,062.
Patterson, Robert V. 3,027,200.
Sylvester, David, and Sweeney. 3,039,365.
Wentz, Richard K. 3,039,656.
Wentz, Richard K., and Steenwerth. 3,039,661.

Aircraft Corp.: *See*—
Mendelson, Myron J. 3,018,955.

Aircraft Engineering and Maintenance Co.: *See*—
Madsen, Andrew. 3,043,908.

Aircraft Precision Products, Inc.: *See*—
Kelly, Thomas N. 3,046,648.

Aircraft Products Co.: *See*—
Greenwood, Orville W. 3,058,358.
Templin, Walter M. 3,044,490.

Aircraft Radio Corp.: *See*—
Doremus, John A. 3,047,657.
Kurtz, Donald P. 3,020,491.
McCouch, Gordon P. 3,046,810.
Moore, Edward B., and Houghton. 3,031,624.
Sanderson, Albert E. 3,064,143.

Aircraft Tools, Inc.: *See*—
Crump, Woodford J. 3,060,772.
Aircushion Patents Corp.: *See*—
Bloom, Dolores F. 3,019,839.
Bloom, Dolores F., and Dickmann. 3,038,539.
Aird, Alanson D.: *See*—
Cormia, Keith C., and Aird. 3,049,214.
Air Devices, Inc.: *See*—
O'Day, Cortland N., and Sweeney. 3,064,550.
O'Day, Cortland N., and Sweeney. 3,067,669.
Air-Equipment: *See*—
Garnier, Georges. 3,054,306.
Aires, Ramon H.: *See*—
Fedde, George A., and Aires. 3,033,920.
Air Exchangers Ltd.: *See*—
Donnison, James O. 3,018,773.
Airfilpat Holdings (Proprietary) Ltd.: *See*—
Mare, Ernest, and Bateman. 3,036,417.
Airheart Products Inc.: *See*—
Marsh, Eugene W. 3,019,859.
Airkem, Inc.: *See*—
Xenakis, Perry, and Dello Russo. 3,028,100.
Air Logistics Corp.: *See*—
Bright, Elvin M. 3,053,717.
De Mott, Dale H. 3,052,127.
Schirtzinger, Joseph F. 3,066,896.
Airmarine Development Corp.: *See*—
Kirby, Harold L. 3,031,693.
Kirby, Harold L. 3,051,356.
Airmec Ltd.: *See*—
Varrall, John E., and Penver. 3,035,218.
Airmed Ltd.: *See*—
Dickinson, George E. J. 3,056,402.
Air-Mite Devices, Inc.: *See*—
Oros, John J. 3,063,465.
Airmold Corp.: *See*—
Carse, Clifford C., and Kremers. 3,070,254.
Airpax Electronics Inc.: *See*—
Nye, Dudley D., Jr. 3,021,480.
Air Pillow & Cushions, Inc.: *See*—
Gosman, Clarence B. 3,030,640.
Air Placement Equipment Co.: *See*—
Pro, George M. 3,019,058.
Pro, George M. 3,051,459.
Air Preheater Corp., The: *See*—
Doré, Franklyn, and Lyle. 3,024,005.
Muller, Robert H. 3,016,231.
Muller, Robert H. 3,022,983.
Speca, Elio J., and Woolard. 3,024,003.
Stoddard, Charles H., and Layfield. 3,024,004.
Air Products and Chemicals, Inc.: *See*—
Cost, Joe L. 3,062,015.
Craig, Robert G. 3,066,926.
Donovan, Joseph J., Heinemann, and Milliken. 3,034,932.
Erner, William E. 3,042,632.
Erner, William E. 3,052,677.
Erner, William E., Farkas, and Graboyes. 3,037,026.
Erner, William E., and Green. 3,050,520.
Erner, William E., Green, and Mills. 3,050,523.
Farkas, Adalbert, and Herrick. 3,038,903.
Green, Harold A. 3,037,028.
Kapp, Numer M., and Ashwill. 3,034,993.
Kurzinski, Edward F. 3,055,916.
Lorz, Waldemar, Mills, and Shalit. 3,064,062.
Mascioli, Rocco L. 3,045,018.
McEvoy, James E., and Milliken. 3,057,689.
Schilling, Clarence J. Re. 25,185.
Schilling, Clarence J. 3,059,438.
Schilling, Clarence J., and Claitor. Re. 25,193.
Schilling, Clarence J., and Claitor. 3,065,607.
Stevenson, Donald H. 3,032,598.
Air Reduction Co., Inc.: *See*—
Anderson, Nelson E. 3,026,405.
Anderson, Nelson E. 3,030,495.
Anderson, Nelson E. 3,059,098.
Anderson, Nelson E. 3,065,438.
Arquette, Gordon J. 3,047,555.
Arquette, Gordon J., Dixler, and Strler. 3,017,260.
Arquette, Gordon J., and Reich. 3,061,458.
Baicar, Frederick R., and Moen. 3,062,017.
Bielenberg, James G., and Mauber. 3,033,713.
Blumenthal, Jack H. 3,028,423.
Braun, Marinus J. 3,058,081.
Buselli, Alfo J., and Ariemma. 3,018,274.
Campbell, John. 3,062,947.
Croix, Louise S. 3,027,299.
Davidowich, George, and Leeds. 3,070,635.
Dennis, Wolcott, and Smith. 3,062,016.
Dietrick, Harold A. 3,018,777.
Engel, Ralph D. 3,018,360.
Engel, Ralph D. 3,019,327.
Fogila, Andrew J. 3,056,768.
Fukushima, Osamu, and Matsubayashi. 3,067,152.
Gibson, Glenn J. 3,017,119.
Gilroy, John, and Schlimgen. 3,033,195.
Greene, William J. 3,017,496.
Greene, William J. 3,049,608.
Hanes, Herman E. 3,067,318.
Hay, Wayne W. 3,033,196.
Lowell, Arthur I., Latimer, and Buselli. 3,049,522.
Matsubayashi, Janji, and Fukushima. 3,053,786.
Miller, Henry A., Jr. 3,019,804.
Air Reduction Co., Inc.: *See*—Continued
Miller, Henry A., Jr. 3,044,486.
Nakajo, Shogo, and Morita. 3,066,999.
Onishi, Tsuneo, and Kobayashi. 3,020,383.
Osugi, Tetsuro, Tanabe, Kawabe, Yabe, Morimoto, and Miyazaki. 3,027,224.
Osugi, Tetsuro, Tanabe, and Mochizuki. 3,032,385.
Pass, Richard H. 3,056,750.
Purkhiser, Rawlins E., and Iceland. 3,049,609.
Rendos, John J. 3,061,403.
Shukys, Julius G. 3,022,280.
Sims, Victor A. 3,047,583.
Tanabe, Kenichi, and Matsubayashi. 3,053,605.
Tanabe, Kenichi, and Ohno. 3,023,182.
Tanabe, Kenichi, Suda, Miyazaki, and Osugi. 3,044,974.
Webster, Robert C. 3,070,447.
Wheeler, Ora L., and Smyser. 3,036,054.
Zamboldi, George R., and Hanes. 3,067,319.
Air-Shields, Inc.: *See*—
Andreasen, Christian B. 3,046,979.
Airson Co., Inc.: *See*—
Ericson, Walter M. 3,069,991.
Air Technology Corp.: *See*—
Clapp, Roger E. 3,017,505.
Airtex Corp.: *See*—
Bergh, Thomas R., King, Nierzwicki, and Thorne. 3,043,567.
Airtex Products, Inc.: *See*—
Gray, Robert J., and Carter. 3,061,344.
Airtronics, Inc.: *See*—
Fitzpatrick, John A. 3,046,728.
Air-Vac Engineering Co.: *See*—
Duhaime, Raymond A., and Lasto. 3,031,127.
Air Valves Co.: *See*—
Hicks, Frederick W., Jr. 3,017,901.
Aishima, Itsuho: *See*—
Tsunoda, Yoshio, Fujimoto, Aishima, and Kobayashi. 3,065,216.
Aitchison, Robert B., to Union Carbide Corp. Method of and means for providing a charge of water sensitive explosive explosive in a blast hole. 3,064,572, 11–20–62, Cl. 102—23.
Aitchison, Thomas W.: *See*—
Timms, Cecil, Aitchison, and Sayce. 3,054,902.
Aitel, Moe L., to Radio Corp of America. Magnetic storage device. 3,056,114. 9–25–62, Cl. 340—174.
Aitken, Calvin M.: *See*—
Aitken, David A., D. A. Aitken, Jr., and C. M. Aitken. 3,036,191.
Aitken, David A., D. A. Aitken, Jr., and C. M. Aitken. Radiant heating panel. 3,036,191, 5–22–62, Cl. 219—34.
Aitken, David A., Jr.: *See*—
Aitken, David A., D. A. Aitken, Jr., and C. M. Aitken. 3,036,191.
Aitken, Douglas G., to Hupp Corp. Wall furnaces. 3,033,096, 5–8–62, Cl. 98—33.
Aitken, Roger G., to Canadian Industries Ltd. Polymethylene terephthalate fiber coated with polymerized triallyl cyanurate. 3,051,594, 8–28–62, Cl. 117—138.8.
Aizawa, Hitoshi: *See*—
Matsubara, Yoshiharu, Heya, and Aizawa. 3,041,381.
Aizawa, Hiizu, and F. Ishida, to Asahi, Kasei Kogyo Kabushiki Kaisha. Process and apparatus for stretch spinning curpammonium rayon. 3,049,755, 8–21–62, Cl. 18—8.
Aizawa, Tatsuo. Light source assembly for photoprinting apparatus. 3,066,593, 12–4–62, Cl. 95—77.5.
Ajax Foundry Products, Inc.: *See*—
Barrett, Edmund. 3,043,611.
Ajax Iron Works: *See*—
Pierotti, Charles T. 3,054,619.
Ajax Magnethermic Corp.: *See*—
Biringer, Paul P. 3,040,230.
Biringer, Paul P. 3,040,231.
Ross, Nicholas V. 3,010,412.
Ross, Nicholas V. 3,038,055.
Seitz, James P. 3,053,920.
Ajax Mfg. Co., The: *See*—
Ehlert, William A. 3,033,063.
Ehlert, William A., and Mersek. 3,017,016.
Ware, Ben F. 3,031,068.
Ajax Stamping and Mfg., Inc.: *See*—
Barrett, Leon. 3,061,717.
Ajem Laboratories: *See*—
Umbricht, Emil, and Evans. 3,030,896.
Umbricht, Emil, and Evans. 3,030,971.
Umbricht, Emil, and Evans. 3,059,861.
Ajero, Fortunato S., to A. I. Kegan, as trustee. Mobile loading ramps. 3,019,917, 2–6–62, Cl. 214—38.
Ajinomoto Co., Inc.: *See*—
Kawamura, Yurio, Tamuki, Takenouchi, Satani, Sakata, and Hanaoka. 3,039,880.
Miyamae, Takashi, and Shimokoshi. 3,059,026.
Motozaki, Shinichi, Ohno, and Fujiwara. 3,029,280.
Motozaki, Shinichi, Ohno, and Fujiwara. 3,029,281.
Ogawa, Tetsuo, Tsunoda, Okumura, and Ozaki. 3,042,585.
Sakurai, Setsuji, Komachiya, and Ito. 3,019,232.
Ajinomoto Kabushiki Kaisha: *See*—
Asai, Toshinobu, Aida, Iizuka, and Kajiwara. 3,036,958.

Ajinomoto Kabushiki Kaisha and Sanraku Distillers Co., Inc. : *See*—
Takeda, Yoshito, Matsui, and Okada. 3,028,309.

Akabayashi, Hiroshi : *See*—
Suzuki, Shigeru, Shimoyamada, Akabayashi, Ogawa, and Iwatsuki. 3,055,735.

Akaboshi, Michijiro, K. Uragami, and K. Okuma, to Kurashiki Rayon Co., Ltd. Concentration of acetic acid. 3,052,610, 9–4–62, Cl. 202—42.

Akahane, Niro, to Yashica Co., Ltd. (Japanese name Kabushiki Kaisha Yashica). Exposure control. 3,044,383, 7–17–62, Cl. 95—64.

Akahane, Niro, to Yashica Co. Ltd. Camera motor control. 3,045,536, 7–24–62, Cl. 88—16.

Akahane, Niro, to Yashica Co., Ltd. Automatic camera diaphragm. 3,045,575, 7–24–62, Cl. 95—64.

Akahane, Niro, to Yashica Co., Ltd. Motor drive for motion picture camera. 3,062,091, 11–6–62, Cl. 88—16.

Akamatsu, Hayao, and T. Yoshikawa, to Shibaura Kyodo Kogyo Kabushiki Kaisha. Lubricant supply device. 3,024,-869, 3–13–62, Cl. 184—7.

Akashi, Goro : *See*—
Fukuda, Shinro, Goto, Akashi, and Miyake. 3,046,158.
Fukuda, Shinro, Miyake, Akashi, and Seto. 3,026,215.
Goto, Hiroshi, and Akashi. 3,047,428.

Ake, Paul D. Combined boat hook and paddle. 3,030,641, 4–24–62, Cl. 9—24.

Akerboom, Jack, D. Melnick, and G. A. Perry, to Corn Products Co. Food composition containing an auxiliary additive and a fungistat. 3,038,810, 6–12–62, Cl. 99—150.

Akerib, Eskiel, to Bureau de Recherches et d'Exploitation de procedes et Brevets. Head for dry electric razor. 3,045,-346, 7–24–62, Cl. 30—43.

Akerlof, Gosta C., to FMC Corp. Method for producing oxygen. 3,061,413, 10–30–62, Cl. 23—221.

Akerlund, Fred E. Apparatus and process for thermal destruction of waste materials. 3,027,854, 4–3–62, Cl. 110—15.

Akerlund & Rausing, Aktiebolaget : *See*—
Stenqvist, Bo E. 3,029,175.

Akerman, Nigel, to The Black and Decker Mfg. Co. Momentary venting means for power-operated percussive tool. 3,034,302, 5–15–62, Cl. 60—62.5.

Åkermans Gjuteri & Mek. Verkstad, AB : *See*—
Johansson, John R. 3,035,646.

Akers, Charles E. Foldable flip-top box. 3,028,068, 4–3–62, Cl. 229—44.

Akers, Edward G. : *See*—
Akers, Edward G. 3,045,880.

Akers, Edward G., 32½% to W. S. Wilson, 32½% to E. G. Akers, 32½% to D. M. Malick, and 3% to E. D. O'Brian. Closure with spout securable in non-use position. 3,045,-880, 7–24–62, Cl. 222—536.

Akers, Robert C., to North American Aviation, Inc. Programmable power supply. 3,044,007, 7–10–62, Cl. 323—22.

Akers, William T., W. L. Clark, III, and A. R. Whitehill, to American Cyanamid Co. Prevention of bovine mastitis. 3,066,071, 11–27–62, Cl. 167—53.2.

Akhtar, Mohd, to Courtaulds Ltd. Gas analyzer. 3,049,412, 8–14–62 Cl. 23—255.

Akhtar, Mohd, and D. Bullas, to Courtaulds Ltd. Nephelometers. 3,065,665, 11–27–62, Cl. 88—14.

Akin, George A., to Eastman Kodak Co. Method of recovery of acetylene and ethylene. 3,016,985, 1–16–62, Cl. 183—115.

Akioka, Yoshio, and Y. Mishina, to Seiko Denki Kogyo Kabushiki Kaisha. Electric exposure meter for cine-camera. 3,033,075, 5–8–62, Cl. 88—23.

Akira Usui : *See*—
Ando, Shiyoshi. 3,064,414.

Akmenkalns, Ivars G., to International Business Machines Corp. Coincident diode gating producing an output resulting from current overshoot. 3,015,740, 1–2–62, Cl. 307—88.5.

Akmenkalns, Ivars G., to International Business Machines Corp. Contact driver circuit. 3,029,351, 4–10–62, Cl. 307—2.

Akmentin, Cyril. Ski sled. 3,042,420, 7–3–62, Cl. 280—16.

Akrell, Carl A. S. : *See*—
Court, Patrick R. J., Akrell, and Lowitz. 3,041,389.

Akrep, Joseph P. Collapsible container for fluids. 3,016,938, 1–16–62, Cl. 150—5.

Akrep, Joseph P. Roadable unit load carrier. 3,039,637, 6–19–62, Cl. 214—670.

Akron Standard Mold Co. : *See*—
Marantette, William F. and R. B. 3,059,236.
Voth, Walter P. 3,015,130.

Aktarian, Sarkis, and A. Iossifidis. Adjustable twin dental handpiece. 3,037,282, 6–5–62, Cl. 32—27.

Aktien-Gesellschaft "Weser" : *See*—
Voss, Siegfried. 3,054,635.

Akustische und Kino-Gerate Gesellschaft m.b.H. : *See*—
Görike, Rudolf, and Reinthaler. 3,035,132.
Reinthaler, Karl. 3,027,423.
Schuster, Karl, and Gettinger. 3,031,539.

Akutowicz, Frank. Traction loop construction. 3,026,922, 3–27–62, Cl. 152—221.

Akutowicz, Frank. Vehicle propulsion apparatus. 3,066,637, 12–4–62, Cl. 115—1.

Aladdin Industries, Inc. : *See*—
Bramming, Carl. 3,016,159.
Bramming, Carl. 3,028,984.
Bramming, Carl. 3,047,175.
Bramming, Carl. 3,070,250.
Imber, Alfred G. 3,027,934.
Mason, Francis G. 3,044,032.

Aladdin Mfg. Co. : *See*—
Bilyeu, Archie E. 3,046,192.
Lyman, Harold T. 3,059,195.
Smith, Robert W. 3,066,925.

Alameda Gage Co. : *See*—
Kasten, Frederick M., Cooke, and R. Kasten. 3,044,178.

Alamprese, Leo, to Minneapolis-Honeywell Regulator Co. Continuously operated compressor. 3,049,284, 8–14–62, Cl. 230—22.

Alaska-Werk : *See*—
Schirp, Wilhelm, and Alex. 3,017,753.

Albamonte, Eduardo. Deodorizer. 3,031,146, 4–24–62, Cl. 239—57.

Alban, Clarence F., to W. M. Chace Co. High electrical resistivity thermostatic metal. 3,030,699, 4–24–62, Cl. 29—195.5.

Albany Machine Tool Corp. : *See*—
Bruno, Patrick J. 3,026,742.

Albee, Arthur C., to Radio Corp. of America. Program timer. 3,056,864, 10–2–62, Cl. 200—46.

Albeko Schuhmaschinen G.m.b.H. : *See*—
Weber, Josef M. 3,060,714.

Albemarle Paper Mfg. Co. : *See*—
Outterson, Charles R., Baker, and Halsey. 3,017,295.

Alberetti, Umberto, to Meccanoptica Leonardo S.p.A., La. Hinged articulation with elastic reaction for temples of spectacles. 3,034,402 5–15–62, Cl. 88—53.

Albers, John P., and H. G. Huber, to Reynolds Metals Co. Heat exchanger. 3,027,142, 3–27–62, Cl. 257—154.

Albersheim, Walter J., to Bell Telephone Laboratories, Inc. Scanning antenna system. 3,056,129, 9–25–62, Cl. 343—11.

Albers-Schoenberg, Ernst, to Steatite Research Corp. Mixed ferrites by a coprecipitation process. 3,019,189, 1–30–62, Cl. 252—62.5.

Albert, Charles G. : *See*—
Robinson, Alfred J., Specht, and Albert. 3,025,133.

Albert, Charles G., to Minerals & Chemicals Philipp Corp. Smoking compositions and smoking unit containing same. 3,057,757, 10–9–62, Cl. 131—17.

Albert, Charles G., to Minerals & Chemicals Philipp Corp. Paper coating composition. 3,066,035, 11–27–62, Cl. 106—211.

Albert, Donald J., and E. W. Forman, to Eastman Kodak Co. Film mounting device. 3,062,268, 11–6–62, Cl. 156—367.

Albert, Harry, to Pennsalt Chemicals Corp. Stopping agents for emulsion polymerization processes. 3,060,158, 10–23–62, Cl. 260—83.7.

Albert, Harry E. : *See*—
Haines, Paul G., and Albert. 3,068,198.
Popoff, Ivan C., and Albert. 3,035,014.

Albert, Harry E., to The Firestone Tire & Rubber Co. Use of phenylene di-tertiary amines in rubber. 3,019,211, 1–30–62. Cl. 260—45.9.

Albert, John R., to Textile Rubber Co., Inc. Handgrip for handle bars. 3,016,763, 1–16–62, Cl. 74—551.9.

Albert, Milton P. : *See*—
Mulock, Lawrence E., and Albert. 3,041,947.

Albert, Pauline M., and H. W. Guiles. Magnetic support. 3,017,036, 1–16–62, Cl. 211—87.

Albert, Richard E., to Utility Appliance Corp. Furnace suitable for trailer installation. 3,067,735. 12–11–62, Cl. 126—110.

Albert, Robert E., to E. I. du Pont de Nemours and Co. Method of spliciing. 3,030,254, 4–17–62, Cl. 156—331.

Albert, William E. and W. K. Brown, to Pettibone-Mulliken Corp. Multi-action front end loaders. 3,024,933, 3–13–62, Cl. 214—701.

Alberti, Franz. Rectoscopic devices. 3,051,176, 8–28–62, Cl. 128—276.

Alberti, Rudolf. Ski surface and process of forming same. 3,066,580, 12–4–62, Cl. 94—3.

Alberts, Thomas W. : *See*—
Downing, Francis P., and Alberts. 3,020,160.

Albertson & Co., Inc. : *See*—
Madsen, Jens A. W. 3,053,360.

Albertson, Leslie J. : *See*—
Albertson, Walter H., and L. J. 3,066,840.

Albertson, Noel F., to Sterling Drug Inc. Peptide synthesis and intermediates therefor. 3,062,804, 11–6–62, Cl. 260—112.

Albertson, Noel F., and F. C. McKay, to Sterling Drug Inc. Peptide synthesis and intermediates therefor. 3,062,805, 11–6–62, Cl. 260—112.

Albertson, Robert V. : *See*—
Albertson, Victor N. and R. V. 3,016,841.

Albertson, Robert V. and V. N., to Practical Mfg. Co. Parts washer. 3,020,918, 2–13–62, Cl. 134—98.

Albertson, Stanley E., Jr. Rotary winged kite. 3,026,073, 3–20–62, Cl. 244—153.

Albertson, Victor N. : *See*—
Albertson, Robert V. and V. N. 3,020,918.

Albertson, Victor N. and R. V., to Practical Mfg. Co. Fluid supply means and drive therefor for parts washers and the like. 3,016,841, 1–16–62, Cl. 103—87.

Albertson, Walter H., and L. J., to Paramount Textile Machinery Co. Improved hosiery form assembly. 3,066,840, 12–4–62, Cl. 223—76.

Albertsson, Tor A., and B. A. Abrahamsson. Electric safety means. 3,064,161, 11–13–62, Cl. 317—13.

Alberty, R. W.: *See*—
Russell, Lionel E. 3,066,316.

Albi Mfg. Co., Inc.: *See*—
Kaplan, Benjamin B. 3,042,541.

Albiach, Vincent. Ship's hull construction. 3,016,867, 1–16–62, Cl. 114—79.

Albiani, Lido, to Korris Products, Inc. Dispensing closure. 3,048,309, 8–7–62, Cl. 222—517.

Albigese, Louis S. Dental device. 3,066,318, 12–4–62, Cl. 4—263.

Albinger, Harry. Jr., to General Electric Co. Light distributing lens system. 3,043,947, 7–10–62, Cl. 240—1.

Albinger, Harry, Jr., and C. B. Marble, to General Electric Co. Combination lens and lamp holder. 3,043,948, 7–10–62, Cl. 240—1.

Albinson, Don: *See*—
Eames, Charles, and Albinson. 3,041,109.
Eames, Charles, and Albinson. 3,042,978.
Eames, Charles, Albinson, and Pearce. 3,043,640.
Eames, Charles, Albinson, and Pearce. 3,046,572.

Albinson, Harold H., and J. F. Voss, to General Motors Corp. Transmission. 3,019,671, 2–6–62, Cl. 74—758.

Albion Industries, Inc.: *See*—
Goodall, Robert J. 3,041,656.

Albiswerk Zurich A.G.: *See*—
Bretscher, Max. 3,048,838.
Bretscher, Max, Farner, Isch, and Klauser. 3,068,468.
Fischer, Hans. 3,035,220.

Albo, Benjamin F. Punching bag exercising apparatus. 3,030,109, 4–17–62, Cl. 272—78.

Albohn, Arthur R.: *See*—
Mitchell, Reid L., Albohn, and Palmgren. 3,045,007.

Albondi, Frank B., J. J. Hagan, and H. L. Easterbrooks, to American Cyanamid Co. Process for preparing a veterinary composition. 3,023,143, 2–27–62, Cl. 167—53.

Albrecht, Albert B., to The Monarch Machine Tool Co. Tool. 3,036,361, 5–29–62, Cl. 29—96.

Albrecht, Alexander J., to The Brunswick Automatic Pinsetter Corp. Pin distributor. 3,018,103, 1–23–62, Cl. 273—43.

Albrecht, Alexander J., to The Brunswick Automatic Pinsetter Corp. Ball track junction. 3,030,110, 4–17–62, Cl. 273—47.

Albrecht, Alexander J., to Brunswick Corp. Bowling ball return mechanism. 3,059,925, 10–23–62, Cl. 273—49.

Albrecht, Carl: *See*—
Muller, Johannes, and Albrecht. 3,022,204.

Albrecht, Clifford C., to Novelty Tool Co., Inc. Power operated C-ring clinching tool. 3,026,520, 3–27–62, Cl. 1—187.

Albrecht, David E., to Hose Accessories Co. Apparatus for applying hose couplings to hoses. 3,047,043, 7–31–62, Cl. 153—1.

Albrecht, Hans: *See*—
Garber, Murray, Herrlinger, Albrecht, and Cisielski. 3,038,945.

Albrecht, Harry A., J. T. Plati, and W. Wenner, to Hoffmann-La Roche Inc. 3-amino-2-aminomethyl-1-phenyl-1-propanols. 3,058,987, 10–16–62, Cl. 260—294.7.

Albrecht, John C., to Bell Telephone Laboratories, Inc. Data storage and retrieval. 3,030,609, 4–17–62, Cl. 340—172.5.

Albrecht, John F., Jr.: *See*—
Lee, John M., and Albrecht. 3,029,163.

Albrecht, Otto, to Ciba Ltd. Polyglycol ether derivatives. 3,027,387, 3–27–62, Cl. 260—404.5.

Albrecht, Otto, to Ciba Ltd. High molecular nitrogen condensation products. 3,028,402, 4–3–62, Cl. 260—404.5.

Albrecht, Otto, to Ciba Ltd. Process for imparting a soft feel to textile fibers. 3,038,820, 6–12–62, Cl. 117—139.5.

Albrecht, William F. Faucet valve assembly. 3,038,696, 6–12–62, Cl. 251—276.

Albrecht, Wolfram, to Jos. Schneider & Co., Optische Werke. High-speed photographic or cinematographic objective with wide image angle. 3,038,379, 6–12–62, Cl. 88—57.

Albrecht, Wolfram, to Jos. Schneider & Co., Optische Werke. High-speed photographic or cinematographic objective with wide image angle. 3,045,547, 7–24–62, Cl. 88—57.

Albrecht, Wolfram, and W. Wagner, to Jos. Schneider & Co., Optische Werke. A focal front attachment for photographic or cinematographic objectives. 3,054,327, 9–18–62, Cl. 88—57.

Albright, Jack L. Foot-operated night light. 3,017,497, 1–16–62, Cl. 240—2.

Albright, James E.: *See*—
Grundmann, Gustave L., and Albright. 3,028,831.

Albright, James M. Melding device for card games. 3,037,774, 6–5–62, Cl. 273—148.

Albright, Robert L., to AMP Inc. Lead making machine. 3,046,636, 7–31–62, Cl. 29—33.5.

Albright, Roy H., to I-T-E Circuit Breaker Co. Individual one-half cycle interrupting device. 3,018,414, 1–23–62, Cl. 317—11.

Albright, Roy H., to I-T-E Circuit Breaker Co. Coaxial metal enclosed isolated phase bus. 3,046,422, 7–24–62, Cl. 307—147.

Albright, Roy H., to I-T-E Circuit Breaker Co. Liquid cooled metal enclosed isolated phase bus. 3,067,278, 12–4–62, Cl. 174—15.

Albright, William D.: *See*—
Wentz, Edward C., Moore, and Albright. 3,023,386.

Albright & Wilson (Mfg.) Ltd.: *See*—
Coates, Harold, and Hoye. 3,035,053.
Coates, Harold, and Hoye. 3,037,978.
Coates, Harold, and Lawless. 3,050,522.
Paddock, Norman L. 3,026,174.

Albritton Engineering Corp.: *See*—
Pewthers, Charles W. 3,065,557.

Alburn, Harvey E., N. H. Grant, and D. E. Clark, to American Home Products Corp. Preparation of 6-aminopenicillanic acid by enzymatic hydrolysis. 3,032,473, 5–1–62, Cl. 195—36.

Albus, Charles P., and G. G. Stoner, to General Aniline & Film Corp. Stabilized 1-vinyl-2-pyrrolidone compositions. 3,028,396, 4–3–62, Cl. 260—326.5.

Albus, Charles P., and D. E. Sargent, to General Aniline & Film Corp. Plasticized gelatin and related proteinaceous colloids. 3,042,524, 7–3–62, Cl. 96—94.

Alcan Co., Inc.: *See*—
Clark, Homer E., Jr. 3,027,621.

Alcarese, Salvador. Bicycle handle extractor. 3,067,503, 12–11–62, Cl. 29—259.

Alco Chemical Corp.: *See*—
Hager, Onslow B., and Martin. 3,070,561.

Alco Products, Inc.: *See*—
Cooke, Edward F., Jr. 3,038,745.
Nichols, William M. 3,043,094.

Alco Valve Co.: *See*—
Tilney, Ralph B. 3,023,591.
Tilney, Ralph B. 3,051,188.
Tilney, Ralph B. 3,060,699.
Tilney, Ralph B., and Schenk. 3,037,362.
Wiegers, Irvin E. 3,037,525.
Wiegers, Irvin E. 3,045,700.

Alcock, Norman Z., and G. J. Leighton, to Curtiss-Wright Corp. Thickness measurement apparatus. 3,027,459, 3–27–62, Cl. 250—83.6.

Alcoriza, Sofronio B. Standpipe unit for irrigation water control. 3,056,356, 6–5–62, Cl. 61—12.

Alcorn, Irwin W., J. R. Graham, and L. B. Christenson, 32.88% to Petroleum Mortgage Co., 32.88% to Belco Petroleum Corp., 1.36% to Victory Oil Co., and 32.88% to The Texstar Corp. Method of and means for launching and erecting offshore structures. 3,054,267, 9–18–62, Cl. 61—46.5.

Alcott, Frederick S. Warning device. 3,022,498, 2–20–62, Cl. 340—253.

Alden, Alex E., to Twentieth Century-Fox Film Corp. Apparatus for compensating for residual chromatic aberration. 3,035,488, 5–22–62, Cl. 88—57.

Alden, Harry E., to Johnson & Johnson. Roll winding machine. 3,055,606, 9–25–62, Cl. 242—60.

Alden, John M. Electrical element and method of insulating same. 3,044,127, 7–17–62, Cl. 18—59.

Alden, John P., to Phillips Petroleum Co. Rocket motor. 3,032,975, 5–8–62, Cl. 60—35.6.

Alder, Robert L., to Dresser Industries, Inc. Drill bit condition indicator and signaling system. 3,058,532, 10–16–62, Cl. 175—39.

Alder, Robert O.: *See*—
Brand, Roger A., and Alder. 3,048,966.

Alderfer, Sterling Co.: *See*—
Alderfer, Sterling W., and Bodley. 3,020,587.

Alderfer, Sterling W., and H. D. Bodley, to Sterling Alderfer Co. Process and apparatus for the manufacture of sealing strips or gaskets. 3,020,587, 2–13–62, Cl. 18—4.

Alderfer, Sterling W., and H. D. Bodley. Foamed sealing strip products. 3,041,682, 7–3–62, Cl. 20—69.

Alderks, Otto H.: *See*—
Craig, Harry L., Alderks, Corwin, Dieke, and Karel. 3,060,165.

Alders, Arthur F.: *See*—
Tyler, Tracy B., and Alders. 3,018,779.

Alders, Lucas: *See*—
Van de Lusse, Jan G., Mondria, and Alders. 3,059,005.

Alders, Lucas, and G. G. Baijlé, to Shell Oil Co. Resolution of mixtures containing acetic acid and formic acid. 3,041,373, 6–26–62, Cl. 260—541.

Alderson Research Laboratories, Inc.: *See*—
Alderson, Samuel W. 3,027,655.

Alderson, Thomas, to E. I. du Pont de Nemours and Co. Process for the preparation of alcohols, aldehydes and ketones. 3,020,314, 2–6–62, Cl. 260—597.

Alderson, Thomas, to E. I. du Pont de Nemours and Co. Process for preparing pentanone-3. 3,059,031, 10–16–62, Cl. 260—597.

Alderson, Samuel W., to Alderson Research Laboratories, Inc. Synthetic casualty. 3,027,655, 4–3–62, Cl. 35—17.

Alderson, Thomas, and J. C. Thomas, to E. I. du Pont de Nemours and Co. Processes of making oxygenated organic compounds. 3,040,090, 6–19–62, Cl. 260—483.

Alderson, Thomas, and V. A. Engelhardt, to E. I. du Pont de Nemours and Co. Production of acyl halides, carboxylic acids and lactones. 3,065,242, 11–20–62, Cl. 260—343.6.

Aldikacti, Hulki: *See*—
Timpner, Fred F., and Aldikacti. 3,056,312.

Aldinger, Donald J., to Taylor Instrument Companies. Pressure responsive device. 3,047,022, 7–31–62, Cl. 137—784.

Aldred, Francis H., to The Morgan Crucible Co. Ltd. Ceramic materials. 3,025,175, 3–13–62, Cl. 106—57.

Alfred, Fred C., J. E. Grew, and B. A. Townsend, to Courtaulds Ltd. Preparation of wood pulp. 3,069,784, 12–25–62, Cl. 34—13.8.

Aldred, John L., Jr., to Ford Motor Co. Stabilizer pad. 3,015,497, 1–2–62, Cl. 280—150.

Aldredge, Howard D., to Container Service Co., Inc. Truck body. 3,064,833, 11–20–62, Cl. 214—82.

Aldrich, Charles S., and L. N. Canick. Continuously adjustable limit switch. 3,060,286, 10–23–62, Cl. 200—19.

Aldrich, Jack R. Animal trap. 3,060,623, 10–30–62, Cl. 43—87.

Aldrich, Paul E., to E. I. du Pont de Nemours and Co. Fluoroalkylmercury fluorocarboxylates and their preparation. 3,043,859, 7–10–62, Cl. 260—431.

Aldrich Pump Co., The: *See*—
Yaindl, Charles. 3,039,393.

Aldridge, Clyde L.: *See*—
Hunter, Edward A., Aldridge, and Gensheimer. 3,051,766.

Aldridge, Clyde L., to Esso Research and Engineering Co. Isocyanates. 3,040,002. 6–19–62, Cl. 260—77.5.

Aldridge, Clyde L., to Esso Research and Engineering Co. Preparation of aluminum alcoholates. 3,042,696, 7–3–62, Cl. 260—448.

Aldridge, Clyde L., and N. L. Cull, to Esso Research and Engineering Co. Polymerization process. 3,056,771, 10–2–62, Cl. 260—94.9.

Aldridge, Clyde L., and E. A. Hunter, to Esso Research and Engineering Co. Quaternary alkoxy emulsifying agents, process of making same, and emulsions produced therewith. 3,062,766, 11–6–62, Cl. 260—29.7.

Aldridge, William D., Jr. Audio selective fading system. 3,020,343, 2–6–62, Cl. 179—1.

Aldrin, Henry W., to Aktiebolaget Bofors. Feeding device for step by step feeding of objects. 3,024,894, 3–13–62, Cl. 198—218.

Aldrin, Per: *See*—
Eklund, Elias N., and Aldrin. 3,033,560.
Eklund, Elias N., and Aldrin. 3,054,610.

Aleck, Benjamin J., to Arde-Portland, Inc. Fastener assembly. 3,039,649, 6–19–62, Cl. 220—80.

Aleksa, Edmund J.: *See*—
Howland, Louis H., Chambers, and Aleksa. 3,049,500.

Alessandrini, Giorgio: *See*—
Marullo, Gerlando, Lazzari, and Alessandrini. 3,069,233.

Alex, Max: *See*—
Schirp, Wilhelm, and Alex. 3,017,753.

Alexander, Arthur D. Multiple pulse communication system. 3,017,460, 1–16–62, Cl. 178—17.

Alexander & Baldwin, Inc.: *See*—
Burch, Elmer C. 3,022,015.

Alexander, Ben, M. Press, and J. Murgio, to International Telephone and Telegraph Corp. Collision avoidance system. 3,025,514, 3–13–62, Cl. 343—5.

Alexander, Benjamin H.: *See*—
Barthel, William F., Alexander, and Beroza. 3,070,607.

Alexander, Bruce T., and W. B. Mathes, to Chemetron Corp. Preparation of white iron phosphate. 3,070,423, 12–25–62, Cl. 23—105.

Alexander, Charles K. Bushing for front wheel support member. 3,027,175, 3–27–62, Cl. 280—96.1.

Alexander, Cletus B. Article vending machine. 3,059,813, 10–23–62, Cl. 221—244.

Alexander, Donald B.: *See*—
Barrett, Edward L. 3,017,449.

Alexander, Donald D.: *See*—
Cave, Robert S., and Alexander. 3,058,199.

Alexander, Donald F., and M. C. Harrold, to General Motors Corp. Domestic appliance. 3,017,030, 1–16–62, Cl. 210—138.

Alexander, Doyle L.: *See*—
Scott, John N., Jr., and Alexander. 3,026,567.

Alexander, Florence M.: *See*—
Alexander, Walter N. 3,046,093.

Alexander, Ford I., and I. C. Bechtold; said Bechtold assor. to said Alexander. Method and apparatus for determining well pipe stuck point location. 3,057,197, 10–9–62, Cl. 73—151.

Alexander, Frederick D.: *See*—
Bridges, Raymond H., and Alexander. 3,018,563.
Wieslander, Frederick W., Copony, Davidson, Alexander, and Smith. 3,030,015.

Alexander, Guy B., to E. I. du Pont de Nemours and Co. Pulverulent silica products. 3,041,140, 6–26–62, Cl. 23—182.

Alexander, Guy B., and W. H. Pasfield, to E. I. du Pont de Nemours and Co. Process for producing sintered metals with dispersed oxides. 3,019,103, 1–30–62, Cl. 75—206.

Alexander, Guy B., R. K. Iler, and S. F. West, to E. I. du Pont de Nemours and Co. Process for producing mixture of refractory metal oxides and metal and product thereof. 3,028,234, 4–3–62, Cl. 75—134.

Alexander, Guy B., and P. C. Yates, to E. I. du Pont de Nemours and Co. Composition comprising particles of refractory oxide coated with an oxide of a transition metal. 3,069,292, 12–18–62, Cl. 117—100.

Alexander, Harry, and J. H. Powell. Lined carton. 3,034,694, 5–15–62, Cl. 229—14.

Alexander, John D.: *See*—
Smith, Edwin K., Jr., Alexander, and Marks. 3,022,716.

Alexander, John H. Send and return stationery. 3,058,648, 10–16–62, Cl. 229—73.

Alexander, John W., and W. A. M. Truesdell, to General Precision, Inc. Translatory precision potentiometer. 3,036,284, 5–22–62, Cl. 338—183.

Alexander, Lewis B.: *See*—
Kennedy, Manley B., and Alexander. 3,021,993.

Alexander, Lloyd G., to Jersey Production Research Co. Sampling device. 3,064,481, 11–20–62, Cl. 73—422.

Alexander, Ludovic W. G., and L. Taylor, to Ferranti, Ltd. Apparatus for separating the rectangular and pulsed form component signals of a composite electrical signal. 3,036,271, 5–22–62, Cl. 328—109.

Alexander, Matthew A., to Computer Equipment Corp. Quantizing circuits. 3,037,166, 5–29–62, Cl. 324—68.

Alexander, Melville F., to Thompson Ramo Wooldridge, Inc. Afterburner control for dual injector turbine pump. 3,052,089, 9–4–62, Cl. 60—35.6.

Alexander, Nolan Y. Apparatus for flying model airplanes. 3,055,609, 9–25–62, Cl. 272—31.

Alexander, Paul, to Continental Can Co., Inc. Art of vaporizing materials. 3,020,177, 2–6–62, Cl. 117—107.

Alexander, Perry L., Jr.: *See*—
Holmes, George B., Sinclair, Alexander, and Vernon. 3,016,663.

Alexander, Ralph G. Liquid applying device. 3,032,801, 5–8–62, Cl. 15—555.

Alexander, Raymond, F. A. Schupan, and J. Abbott, to The Kendall Co. Device for severing continuously moving strip at predetermined locations. 3,029,675, 4–17–62, Cl. 83—76.

Alexander, Robert H., and J. K. Specht, to Sylvania Electric Products Inc. Support cap. 3,023,469, 3–6–62, Cl. 24—73.

Alexander, Stephen H., to Monsanto Chemical Co. Bituminous compositions. 3,070,453, 12–25–62, Cl. 106—278.

Alexander, Stephen H., to Monsanto Chemical Co. Bituminous compositions. 3,070,455, 12–25–62, Cl. 106—278.

Alexander, Stephen H., and G. W. Tarver, to Monsanto Chemical Co. Bituminous compositions. 3,070,523, 12–25–62, Cl. 204—147.

Alexander, Stephen H., and G. W. Tarver, to Monsanto Chemical Co., Bituminous compositions. 3,070,524, 12–25–62, Cl. 204—147.

Alexander, Walter N., deceased (F. M. Alexander, executrix); said W. N. Alexander assor. to General Aniline & Film Corp. Process of manufacturing carbon monoxide. 3,046,093, 7–24–62, Cl. 23—204.

Alexander, Warren A., to Jersey Production Research Co. Self-orienting geophone. 3,054,085, 9–11–62, Cl. 340—17.

Alexander, Warren A., to Jersey Production Research Co. Self-orienting vibration detector. 3,065,456, 11–20–62, Cl. 340—17.

Alexander, William O., and H. B. Irwin, to General Motors Corp. Dual rotor governor. 3,032,985, 5–8–62, Cl. 60—39.28.

Alexanderson, Ernst F. W. Electric motor control apparatus. 3,050,672. 8–21–62, Cl. 318—257.

Alexandersson, Harald V., to Telefonaktiebolaget L M Ericsson. Code relay selector. 3,060,274, 10–23–62, Cl. 179—27.54.

Alexandre, Marcel: *See*—
Hellin, Michel, Coussemant, Lumbroso, Servaud, and Alexandre. 3,057,923.
Hellin, Michel, Coussemant, Lumbroso, Servaud, and Alexandre. 3,060,238.
Hellin, Michel, Coussemant, Lumbroso, Servaud, and Alexandre. 3,060,239.

Alexandrovsky, George. Conveyor screw apparatus. 3,056,588, 10–2–62, Cl. 257—101.

Alexeff, Alexander V.: *See*—
Richards, Howard R., and Alexeff. 3,069,056.

Alexeff, Alexander V., and H. R. Richards, to Industrial Ovens, Inc. Expansible oven strip processing means. 3,045,360, 7–24–62, Cl. 34—52.

Alexeff, Alexander V., and H. R. Richards, to Industrial Ovens, Inc. Tension-responsive wrap-adjusting web guiding apparatus. 3,054,547, 9–18–62, Cl. 226—198.

Alexiou, Christos G. Utility stool and the like. 3,038,690, 6–12–62, Cl. 248—155.3.

Alf, Fritz, to Deutsche Edelstahlwerke Aktiengesellschaft, and Allgemeine Elektricitats-Gesellschaft. Method of and apparatus for inductively heating metal. 3,041,434, 6–26–62, Cl. 219—10.41.

Alfa Romeo S.p.A.: *See*—
Garcca, Gianpaolo. 3,036,563.

Alfaya, Raymond, P. A. Landskroener, and K. L. Thaxton, to E. I. du Pont de Nemours and Co. Calculator. 3,047,221, 7–31–62, Cl. 235—64.7.

Alfieri, Giuseppe, to Fabrica Italiana Magneti Marelli. Distributor for pneumatic braking systems with variable load and stroke. 3,016,271, 1–9–62, Cl. 303—53.

Alfieri, Giuseppe, to Fabbrica Italiana Magneti Marelli S.p.A. Braking equipment for composite vehicles. 3,023,052, 2–27–62. Cl. 303—2.

Alfieri, Giuseppe, to Fabbrica Italiana Magneti Marelli S.p.A. Compressed air distributing plant for pneumatic suspensions. 3,025,077, 3–13–62, Cl. 280—124.

Alfieri, Giuseppe, to Marelli S.p.A., Fabbrica Italiana Magneti. Hand-operated pneumatic distributor for control of vehicular compressed-air brakes. 3,031,234, 4–24–62, Cl. 303—54.

Alfieri, Giuseppe, to Fabbrica Italiana Magneti Marelli S.p.A. Automatic levellers for pneumatic suspensions. 3,036,596, 5–29–62, Cl. 137—596.2.

Alfieri, Giuseppe, to Marelli S.p.A., Fabbrica Italiana Magneti. Electropneumatic servocontrol device for the engine brake of vehicles. 3,042,153, 7–3–62, Cl. 188—99.

Alfieri, Giuseppe, to Marelli S.p.A., Fabbrica Atuliana Magneti. Pneumatic brake system. 3,042,456, 7–3 62, Cl. 303—29.

Alfieri, Giuseppe, to Marelli S.p.A., Fabbrica Italiana Magneti. Distributor for braking plants with embodied stop-lamp switch, particularly for vehicles. 3,043,930, 7–10–62, Cl. 200—83.

Alfieri, Giuseppe, to Marelli, S.p.A., Fabbrica Italiana Magneti. Load levelling device for a pneumatic suspension, particularly for a motor vehicle. 3,044,495, 7–17–62, Cl. 137—636.1.

Alfieri, Giuseppe, to Marelli S.p.A., Fabbrica Italiana Magneti. Leveller for two-valve pneumatic suspension. 3,045,703, 7–24–62, Cl. 137—627.5.

Alfieri, Giuseppe, to Marelli S.p.A., Fabbrica Italiana Magneti. Duplex compressed air distributors for pneumatic braking installations. 3,046,061, 7–24–62, Cl. 303—53.

Alfieri, Giuseppe, to Fabbrica Italiani Magneti Marelli S.p.A. Servobrake with duplex distributor for braking equipment of the hydropneumatic kind. 3,047,341, 7–31–62, Cl. 303—53.

Alfieri, Giuseppe, to Marelli S.p.A., Fabbrica Italiana Magneti. Automatic brake system including safety cut-off valves for each brake section. 3,048,451, 8–7–62, Cl. 303—29.

Alfieri, Giuseppe, to Marelli S.p.A., Fabbrica Italiana Magneti. Air compressors for pressure air plants, particularly for vehicles. 3,051,016, 8–28–62, Cl. 74—595.

Alfieri, Giuseppa, to Marelli S.p.A., Fabbrica Italiana Magneti. Anticlogging device particularly for calibrated holes in pneumatic pipe fitting of motor vehicles. 3,051,199, 8–28–62, Cl. 138—44.

Alfieri, Giuseppe, to Marelli S.p.A., Fabbrica Italiana Magneti. Transmission with a pneumatic-mechanical servo-control. 3,053,102, 9–11–62, Cl. 74—335.

Alfieri, Giuseppe, to Marelli S.p.A., Fabbrica Italiana Magneti. Duplex distributors for pneumatic braking plants particularly for vehicles. 3,053,578, 9–11–62, Cl. 303—53.

Alfieri, Giuseppe, to Marelli S.p.A., Fabbrica Italiana Magneti. Levelling device for pneumatic suspension with front cam control member, particularly for vehicles. 3,054,424, 9–18–62, Cl. 137—627.5.

Alfieri, Giuseppe, to Marelli S.p.A., Fabbrica Italiana Magneti. Automatic pressure fluid distributor for pneumatic suspension plants, particularly for three axle vehicles. 3,055,678, 9–25–62, Cl. 280—104.5.

Alfieri, Giuseppe, to Marelli S.p.A., Fabbrica Italiana Magneti. Preselective electro-pneumatic apparatus for controlling gear changes. 3,058,364, 10–16–62, Cl. 74—334.

Alfieri, Giuseppe, to Marelli S.p.A., Fabbrica Italiana Magneti. Compressed air distributor particularly for motor vehicle braking systems. 3,058,782, 10–16–62, Cl. 303—54.

Alfieri, Giuseppe, to Marelli S.p.A., Fabbrica Italiana Magneti. Control for a levelling device. 3,061,330, 10–30–62, Cl. 280—124.

Alfieri, Giuseppe, to Marelli S.p.A., Fabbrica Italiana Magneti. Double distributor with hand-control to brake the trailer or semitrailer with embodied stop switch. 3,061,382, 10–30–62, Cl. 303—53.

Alfieri, Giuseppe, to Fabbrica Italiana Magneti Marelli S.p.A. Simplex pneumatic distributor in monobloc with the fluid control and cleaning unit. 3,065,998, 11–27–62, Cl. 303—11.

Alfieri, Giuseppe, to Fabbrica Italiana Magneti Marelli S.p.A. Pressure air distributor. 3,065,999, 11–27–62, Cl. 303—53.

Alfieri, Giuseppe, to Marelli S.p.A. Fabbrica Italiana Magneti. Duplex type distributor for compressed air braking systems with manual control system and advance device. 3,066,987, 12–4–62, Cl. 303—53.

Alfoldi, Lajos : *See*—
Keltholz, Friedrich, and Alfoldi. 3,020,833.

Alford, Andrew : *See*—
Russell, Lindsay. 3,044,063.
Watts, Chester S., Jr. 3,061,780.
Watts, Chester B., Jr. 3,068,431.

Alford, Andrew. Means for absorbing reflected energy in an antenna transmission line. 3,015,786, 1–2–62, Cl. 333—9.

Alford, Andrew. Device for measuring distances and directions of distant objects. 3,028,593, 4–3–62, Cl. 343—17.1.

Alford, Andrew. High frequency apparatus. 3,064,212, 11–13–62, Cl. 333—7.

Alford, Andrew. Antenna structure and system. 3,066,291, 11–27–62, Cl. 343—106.

Alford, Andrew, and D. P. Flood. Rotatable waveguide joint. 3,016,504, 1–9–62, Cl. 333—98.

Alford, Andrew, and H. H. Leach ; said Leach assor. to said Alford. Diplexing unit. 3,058,428, 12–11–62, Cl. 333—9

Alford, Emra L. Washer unit. 3,055,378, 9–25–62, Cl. 134—186.

Alford, Gilbert H. : *See*—
Bell, Arthur L., and Alford. 3,068,788.

Alford, Harvey E. : *See*—
Hardman, Harley F., and Alford. 3,063,856.
Veatch, Franklin, Alford, and Croft. 3,030,215.

Alford, Joseph S., to General Electric Co. Variable exhaust nozzle configuration. 3,038,304, 6–12–62, Cl. 60—35.6.

Alford, Joseph S., to United States of America, Air Force. Variable area nozzle control mechanism. 3,048,971, 8–14–62, Cl. 60—35.6.

Alford, Joseph S., and R. P. Taylor, to General Electric Co. Flow stabilizing means for converging-diverging nozzle. 3,041,825, 7–3–62, Cl. 60—35.6.

Alford, Harvey E., to The Standard Oil Co. Method of acid treating hollow glass spheres. 3,061,495, 10–30–62, Cl. 156—25.

Alford, Harvey E., and F. Veatch, to The Standard Oil Co. Method for forming concrete structures which set in place while floating. 3,023,116, 2–27–62, Cl. 106—90.

Alford, Joseph S., to General Electric Co. Aerodynamic nozzle. 3,068,645, 12–18–62, Cl. 60—35.6.

Alford, William J., Jr., and E. C. Polhamus, to United States of America, National Aeronautics and Space Administration. Variable sweep wing configuration. 3,053,484, 9–11–62, Cl. 244—43.

Alfrey, Turner, Jr. : *See* —
Lloyd, William G., and Alfrey. 3,022,199.

Algase, Lawrence L., and R. C. Lockwood, to United States of America, Navy. Stabilized superregenerator. 3,067,392, 12–4–62, Cl. 331—54.

Algatt, George E., to Western Electric Co., Inc. Apparatus for loading plating racks. 3,051,334, 8–28–62, Cl. 214—8.5.

Algemene Kunstzijde Unie, N.V. : *See*—
Kohlweg, Johann F. 3,026,564.

Alger, C. L., & Co., Inc. : *See*—
Hopkins, John D. 3,045,463.

Alger, Jerry T. : *See*—
Rein, Edward H., and Alger. 3,058,515.

Alger, Jerry T., to Configured Tube Products Co. Flame shapers. 3,018,823, 1–30–62, Cl. 158—116.

Alger, Milton P., A. M. Nelson, and H. M. Stern, to The Magnavox Co. Card processing system. 3,024,982, 3–13–62, Cl. 235—61.11.

Alginate Industries Ltd. : *See*—
Merton, Robert R., and Blood. 3,067,743.

Algino, Joseph M. : *See*—
Couffer, Robert W., Jr., and Algino. 3,029,324.
Couffer, Robert W., Jr., and Algino. 3,040,766.

Algino, Joseph M., to The Dole Valve Co. Safety ignition system for gas burners. 3,026,932, 3–27–62, Cl. 158—125.

Algino, Joseph M., to The Dole Valve Co. Drier control system. 3,032,888, 5–8–62, Cl. 34—45.

Algraphy Ltd. : *See* —
Adams, Ronald A. C. 3,019,106.

Alguire, Ivan M. System for draining and replenishing water or other liquids. 3,028,875, 4–10–62, Cl. 137—391.

Alicot, Michel J. C. : *See*—
Alicot, Michel J. C. 3,036,138.

Alikonis, Justin J. Nutritive food glaze. 3,032,422, 5–1–62, Cl. 99—166.

Alikonis, Justin J., H. R. Hillman, and C. L. Olson, to P. F. Beich Co. Treating raw nutmeats. 3,062,660, 11–6–62, Cl. 99—124.

Alim Corp. : *See* —
Rätzel, Gerd. 3,027,272.

Alimanestiano, Mihal, to Speed-Park, Inc. Vehicle parking system. 3,063,579, 11–13–62, Cl. 214—16.1.

Alix, Arthur A., to Riley Stoker Corp. Feedwater system. 3,043,280, 7–10–62, Cl. 122—459.

Alizon, Etienne, and C. Monin, to Compagnie Industrielle des Telephones. Magnetic amplifier device having adapted compensation. 3,041,528, 6–26–62, Cl. 323—89.

Alkire, Edmond M., and W. Strebel ; said Strebel assor. to said Alkire. Container vent valve. 3,064,668, 11–20–62, Cl. 137—43.

Alkirk, Inc. : *See*—
Kirkpatrick, Max B. 3,065,651.

Alkon Products Corp. : *See*—
Aslan, Wilfred. 3,060,969.
Aslan, Wilfred. 3,060,970.

Alkono Aktien Gesellschaft : *See*—
Nijhuis, Aart G. 3,061,055.

All American Engineering Co. : *See*—
Daniels, Charles J. 3,030,078.
Daniels, Charles J. 3,034,749.
Daniels, Charles J., and Haber. 3,028,127.
Daniels, Charles J., and Smith. 3,020,908.
Doolittle, Donald B. 3,067,697.
Fahey, Edward J., and Pierce. 3,042,375.
Haber, Robert J. 3,020,010.

All Products Co. : *See*—
Kessler, Carl E. 3,069,142.

Alla, Francis Y. : *See*—
Slansky, David, and Alla. 3,060,353.

Alladin Plastics, Inc. : *See*—
Avedon, Sam. 3,034,830.
Lalandre, Andre. 3,032,375.

Allais, Andre : *See*—
Muller, Georges, Allais, and Velluz. 3,048,592.
Velluz, Leon, Muller, and Allais. 3,048,286.
Velluz, Leon, Muller, and Allais. 3,047,578.

Allais, André, and P. Girault, to Roussel-UCLAF, S.A. Process for the preparation of 21-m-sulfo benzoates of Δ^4,4-dehydrocorticosteroids. 3,032,568, 5–1–62, Cl. 260—397.45.

Allais, André, and J. Meier, to Roussel-UCLAF, S.A. Proeess of making 6-fluoro tryptamine. 3,042,685, 7–3–62, Cl. 260—319.

Allais, Andre, P. Girault, and A. Vesterman, to Roussel UCLAF. Cuprous-carbamate fungicide. 3,056,721, 10–2–62, Cl. 167—22.

Allais, Andre, and J. Meier, to Roussel-UCLAF, S.A. Cyclohexylcarbonates of steroids. 3,056,727, 10–2–62, Cl. 167—74.

Allais, Andre, and P. Girault, to Roussel UCLAF, S.A. Intermediates for the preparation of tryptamine compounds. 3,058,992, 10–16–62, Cl. 260—319.

Allais, David C., F. A. Litz, and N. A. Vogel, to International Business Machines Corp. Motion control apparatus for information storage drawers. 3,067,333, 12–4–62, Cl. 250—237.

Allan, Adrian R., Jr., to Flanders Filters, Inc. Package for filters. 3,057,468, 10–9–62, Cl. 206—46.

Allan, Arthur R.: *See*—
Self, Richard E., and Allan. 3,053,236.

Allan, Stewart, to Union Carbide Corp. Gas supply and distribution apparatus. 3,016,947, 1–16–62, Cl. 158—27.4.

Allan, Ted. Panoramic motion picture camera. 3,059,528, 10–23–62, Cl. 88—18.

Allander, Claes, to Svenska Fläktfabriken, Aktiebolaget. Web cutter between tandem-arranged work conveying means. 3,051,031, 8–28–62, Cl. 83—424.

Allander, Claes V., to B. E. Ununger. Magnetically operable lock. 3,056,276, 10–2–62, Cl. 70—276.

Allander, Claes V. Method for rapid mounting of tool sets. 3,064,511, 11–20–62, Cl. 83—13.

Allander, Claes, and B. Lärkfeldt, to Aktiebolaget Svenska Fläktfabriken. Room unit for air conditioning. 3,018,088, 1–23–62, Cl. 257—137.

Allard, Emmanuel M. L., and P. G. L. Laurens. Micromanometer particularly adapted for use with a cardiac catheter. 3,038,465, 6–12–62, Cl. 128—2.05.

Allard, Pierre J.-M. T. Hopper capable of being emptied in a regulatable manner. 3,019,949, 2–6–62, Cl. 222—502.

Allard, Pierre J.-M. T. Excavating machine notably for digging trenches. 3,043,029, 7–10–62, Cl. 37—86.

Allardt, Ernst W.: *See*—
Gibson, Walter J., De Stephen, and Allardt. 3,056,285.

Allardt, Ernst W., to The Babcock & Wilcox Co. Apparatus for forming a multiple tube panel. 3,065,329, 11–20–62, Cl. 219—102.

Allbright, Dennis H., to Dunlop Rubber Co. Ltd. Ram damping device. 3,024,770, 3–13–62, Cl. 121—38.

Allbright, Norman J., and A. C. Boldon; said Allbright assor. to said Boldon. Continuous closed circuit apparatus for rendering animal matter. 3,057,699, 10–9–62, Cl. 23—263.

Alldritt, Della M.: *See*—
Alldritt, Lawrence L. and D. M. 3,044,689.

Alldritt, Lawrence L. and D. M. Ventilating fan assembly. 3,044,689, 7–17–62, Cl. 230—273.

Allegany Instrument Co., Inc.: *See*—
Minke, Charles M. 3,037,380.
Minke, Charles M. 3,037,190.

Allegheny Ludlum Steel Corp.: *See*—
Aggen, George. 3,065,067.
Bartell, David P., Fricioni, and McMahon. 3,027,240.
Burket, Robert E., Coy, and Peterman. 3,024,141.
Clarke, Francis J. 3,051,080.
Daley, Robert W. 3,046,319.
Dyrkacz, Wasil W., Reynolds, and Aggen. 3,065,068.
Henke, Robert H. 3,021,237.
Hilliard, Glenn E. 3,030,203.
Hummel, Lynn J. 3,051,301.
Laine, Edward A. 3,029,100.
Malagari, Frank A., Jr. 3,066,393.
McCarter, Donald C., Ramachandran, and Heid. 3,047,917.
McCune, Harry E., III, and Lula. 3,035,338.
Miller, Clarence L., Jr., and Perry. 3,039,902.
Murtland, James B., Jr. 3,054,311.
Murtland, James B., Jr., Schoepf, and Skinner. 3,056,208.
Peifer, Wilbert A. 3,062,624.
Pitler, Richard K., Reynolds, and Aggen. 3,051,565.
Renshaw, William G., Bongartz, and Beigay. 3,019,090.
Ulam, John B. 3,050,834.

Allegheny Plastics, Inc.: *See*—
Yost, James M., and Moritz. 3,045,287.

Allegri, Theodore H. Display and dispensing cabinet. 3,055,548, 9–25–62, Cl. 221—281.

Allegrini, Aldo P.: *See*—
Robinson, Alfred J., Allegrini, and Mueller. 3,016,355.

Allegrini, Aldo P., to Minerals & Chemicals Philipp Corp. Method of preparing activated attapulgite. 3,041,238, 6–26–62, Cl. 167—55.

Allegrini, Aldo P., to Minerals & Chemicals Philipp Corp. Lightweight adsorbent clay product and method of making same. 3,049,449, 8–14–62, Cl. 131—17.

Allegrini, Aldo P., and T. A. Cecil, to Minerals & Chemicals Philipp Corp. Method of drying attapulgite clay dispersions. 3,050,863, 8–28–62, Cl. 34—17.

Alleman, Carl E., and F. A. Bowers, to Phillips Petroleum Co. Process for drying granular coated ammonium nitrate. 3,027,267, 3–27–62, Cl. 117—16.

Allen, Albert, to The Foxboro Co. Fluid flow pressure switch device. 3,057,594, 10–9–62, Cl. 251—61.

Allen, Albert, W. H. Howe, and H. L. Bowditch, to The Foxboro Co. Positioning motors. 3,070,716, 12–25–62, Cl. 310—22.

Allen, Albert S., to Hoffman-Allen Corp. Combination full-flow and by-pass filter. 3,021,954, 2–20–62, Cl. 210—132.

Allen, Alman A.: *See*—
Wright, Jay L., Tenney, and Allen. 3,064,677.

Allen, Alton K., and N. C. Zatsky, to Reeves Instrument Corp. Adjustable limit stop. 3,037,397, 6–5–62, Cl. 74—424.8.

Allen, Arthur C., to Stewart-Warner Corp. Speed responsive control means for automotive vehicle. 3,054,479, 9–18–62, Cl. 188—152.

Allen, Arthur C., to Stewart-Warner Corp. Check valve. 3,066,695, 12–4–62, Cl. 137—512.15.

Allen, Bertha M. Segregated article washing unit. 3,036,616, 5–29–62, Cl. 150—1.

Allen-Bradford, Inc.: *See*—
Jacobson, Edward, and Siegelman. 3,020,548.

Allen-Bradley Co.: *See*—
Benadoin, Leonard W., Kraft, and Steinbrecher. 3,046,228.
Dehn, William F. 3,041,888.
Dickinson, Clarence R., and Slagg. 3,050,704.
Niles, Ira P. 3,050,186.
Oland, Frank, and Maccani. 3,070,572.
Perkins, Laurence M. 3,036,173.
Pfister, Anthony C. 3,037,266.
Schlicke, Heinz M. 3,023,383.
Schlicke, Heinz M. 3,035,237.
Schlicke, Heinz M. 3,060,391.

Allen, Burdis R. Sill leakage preventing device. 3,035,374, 5–22–62, Cl. 50—177.

Allen, Cecil G. Picture frame. 3,053,001, 9–11–62, Cl. 40—154.

Allen, Charles F. H., R. H. Talbot, J. Yudelson, and D. A. Smith, to Eastman Kodak Co. Photosensitive products containing therein layers hardened by bisepoxides. 3,047,394, 7–31–62, Cl. 96—111.

Allen, Charles L., to Dynamics Corp. of America. Blender cord storage assembly. 3,027,115, 3–27–62, Cl. 242—85.1.

Allen, Charles M.: *See*—
Lawton, Emil A., Allen, and Cosgrove. 3,023,164.

Allen, Chester C., Jr., to Texas Instruments Inc. Method for fabricating transistors having desired current-transfer ratios. 3,065,115, 11–20–62, Cl. 148—1.5.

Allen, Clifton H., to Western Filter Co. Supporting structures for sewage clarification units. 3,019,906, 2–6–62, Cl. 210—524.

Allen, Don T.; J. G. Allen, executor. Apparatus for determining elapsed time and a function thereof. 3,041,613, 6–26–62, Cl. 346—90.

Allen, E. F., ½ to V. E. Macy, Jr. Valve. 3,033,226, 5–8–62, Cl. 137—315.

Allen, Edgar W. Bevel protractor. 3,061,932, 11–6–62, Cl. 33—94.

Allen, Edward A.: *See*—
Healy, Francis P., and Allen. 3,060,812.

Allen, Edward M., to Pittsburgh Plate Glass Co. Process for producing pigments. 3,069,282, 12–18–62, Cl. 106—300.

Allen, Edwin L., to Atwood Vacuum Machine Co. Seat slide. 3,062,592, 11–6–62, Cl. 308—3.6.

Allen, Edwin L., and A. R. de Vito, to L. W. Menzimer. Door control mechanism. 3,027,185, 3–27–62, Cl. 292—280.

Allen Electric and Equipment Co.: *See*—
Van Campen, Frank M. 3,015,757.

Allen, Ely G., and B. E. Carleton, to General Electric Co. Turbine speed limiting arrangement. 3,050,282, 8–21–62, Cl. 253—77.

Allen, Eugene M. Automobile top mounting and actuating means. 3,057,656, 10–9–62, Cl. 296—117.

Allen, Francis D., and C. M. Milford, to The De Havilland Engine Co. Ltd. Duct assemblies. 3,053,283, 9–11–62, Cl. 138—111.

Allen, Frank D.: *See*—
Herz, Arthur H., and Allen. 3,047,393.

Allen, Frank D., A. H. Herz, and N. W. Kalenda, to Eastman Kodak Co. Stabilization of photographic silver halide emulsions. 3,062,654, 11–6–62, Cl. 96—108.

Allen, Frank L., Jr.: *See*—
Bliven, Roger, Allen, and Budash. 3,029,159.

Allen, George H. Connector. 3,032,848, 5–8–62, Cl. 24—234.

Allen, George R. Top valve for a pressure vessel. 3,021,870, 2–20–62, Cl. 137—625.12.

Allen, George R. Dispensing valve for pressurized container. 3,031,165, 4–24–62, Cl. 251—111.

Allen, George R., M. Marx, and M. J. Weiss, to American Cyanamid Co. Process for hydrolyzing 16,17 steroid acetonides. 3,021,347, 2–13–62, Cl. 260—397.45.

Allen, Gordon D., to Allen Tool & Engineering Ltd. Carrier devices. 3,027,974, 4–3–62, Cl. 184—99.

Allen, Gordon S. J.: *See*—
Crosfield, John F., Allen, Brimelow, and Price. 3,051,841.

Allen-Harper, Inc.: *See*—
Allen, Kenneth M., and Harper. 3,038,589.
Allen, Kenneth M., and Harper. 3,065,777.

Allen, Harry C., to Grinnell Corp. Fusible link. 3,044,555, 7–17–62, Cl. 169—42.

Allen, Herbert, to Cameron Iron Works, Inc. Plug valve operator or the like. 3,035,452, 5–22–62, Cl. 74—157.

Allen, Herbert, to Cameron Iron Works, Inc. Valves. 3,038,489, 6–12–62, Cl. 137—315.

Allen, Herbert, to Cameron Iron Works, Inc. Valves. 3,045,693, 7–24–62, Cl. 137—315.

Allen, Herbert, to Cameron Iron Works, Inc. Valve. 3,053,269, 9–11–62, Cl. 137—315.

Allen, Howard G., to Bostitch, Inc. Staple magazine and feeding means. 3,049,715, 8–21–62, Cl. 1—49.

Allen Industries Inc.: *See*—
Goldstone, Edward G. 3,049,456.
Allen, Ivey, Jr., K. T. Garty, and J. A. Stenstrom, to Union Carbide Corp. Graft copolymers of styrene on butadiene rubbers and method for making same. 3,062,777, 11–6–62, Cl. 260—45.5.
Allen, Jack E. Picture hanger. 3,057,590, 10–9–62, Cl. 248—29.
Allen, James D., Jr., to International Business Machines Corp. Format control device. 3,063,537, 11–13–62, Cl. 197—19.
Allen, James H., to Phillips Petroleum Co. Method of determining amount of fluid in underground storage. 3,049,920, 8–21–62, Cl. 73—291.
Allen, James H., to Phillips Petroleum Co. Detection of leaks from underground storage caverns. 3,062,012, 11–6–62, Cl. 61—0.5.
Allen, James W., Jr., to International Business Machines Corp. Magnetic transducer. 3,027,549, 3–27–62, Cl. 340—174.1.
Allen, Jerre G.: *See*—
Allen, Don T. 3,041,613.
Allen, John G., to Phillips Petroleum Co. Isomerization of hydrocarbons. 3,020,322, 2–6–62, Cl. 260—683.65.
Allen, John K.: *See*—
Atkinson, George E., and Allen. 3,033,251.
Allen, John P. C.: *See*—
Ruland, Edward J., Jr., Allen, and Lobosco. 3,021,420.
Allen, John P. C., R. R. Lobosco, and T. A. Heeney, Jr., to Union Carbide Corp. Control for manual sigma spot welder. 3,054,886, 9–18–62, Cl. 219—131.
Allen, John W., to Stanray Corp. Fork lift unit. 3,019,930, 2–6–62, Cl. 214—731.
Allen, John W., to Stanray Corp. Lift conveyor. 3,020,059, 2–6–62, Cl. 280—43.23.
Allen, John W., to Stanray Corp. Turntable type lift conveyor. 3,063,675, 11–13–62, Cl. 254—2.
Allen, John W., D. P. Lerch, and G. W. Ziegler, Jr., to AMP Inc. Electrical connections. 3,048,650, 8–7–62, Cl. 174—90.
Allen, Joseph C.: *See*—
Harlan, Don L., Battle, and Allen. 3,019,838.
Allen, Joseph C., to Texaco Inc. In situ combustion. 3,024,840, 3–13–62, Cl. 166—11.
Allen, Joseph C., to Texaco Inc. Method for permeability measurements. 3,030,801, 4–24–62, Cl. 73—38.
Allen, Joseph C., to Texaco Inc. Recovery of petroleum. 3,035,637, 5–22–62, Cl. 166—9.
Allen, Joseph C., to Texaco Inc. Treating an underground formation by hydraulic fracturing. 3,063,499, 11–13–62, Cl. 166—42.
Allen, Joseph C., to Texaco Inc. Method for the transportation and maintenance of a normally gaseous hydrocarbon in solution with a liquid hydrocarbon. 3,086,657, 12–18–62, Cl. 62—48.
Allen, Joseph C., and R. E. Kunetka, to Texaco Inc. In situ combustion. 3,026,935, 3–27–62, Cl. 166—11.
Allen, Joseph C., and A. S. McKay, to Texaco Inc. Productivity well logging. 3,038,333, 6–12–62, Cl. 73—155.
Allen, Joseph W., to The Bendix Corp. Coupling device. 3,053,365, 9–11–62, Cl. 192—84.
Allen, Kenneth C., to The Hobart Mfg. Co. Weighing scales. 3,037,563, 6–5–62, Cl. 177—4.
Allen, Kenneth C., to The Hobart Mfg. Co. Computing scale. 3,044,691, 7–17–62, Cl. 235—58.
Allen, Kenneth C., to The Hobart Mfg. Co. Weighing scales. 3,045,228, 7–17–62, Cl. 340—347.
Allen, Kenneth C., E. E. Boshinski, and D. A. Meeker, to The Hobart Mfg. Co. Scales. 3,057,554, 10–9–62, Cl. 235—160.
Allen, Kenneth M., and C. H. Harper, to Allen-Harper, Inc. Vibrating structure. 3,038,589, 6–12–62, Cl. 198—220.
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Allen, Kenneth P., to American Can Co. Method of forming a paper cup. 3,028,798, 4–10–62, Cl. 93—55.1.
Allen, Leo J. Water ski towing device. 3,034,469, 5–15–62, Cl. 114—235.
Allen, Lloyd R., C. A. Baer, and P. J. Clough, to National Research Corp. Production of metals. 3,049,421, 8–14–62, Cl. 75—5.
Allen, Lloyd R., and D. H. Woodard, to Kenmore Research Co. Thixotropic thread lubricant. 3,069,387, 12–18–62, Cl. 252—49.7.
Allen, Lowell G., to International Business Machines Corp. Three image buffer system for card reader. 3,024,981, 3–13–62, Cl. 233—61.7.
Allen, Nancy K.: *See*—
Fisk, Roy T., and Allen. 3,035,986.
Allen, Oliver L., J. T. Ferraris, and R. C. Lampe, to Electrolux Corp. Rug scrubbing device. 3,046,586, 7–31–62, Cl. 15—50.
Allen Organ Co.: *See*—
Markowitz, Jerome. 3,064,515.
Markowitz, Jerome, and Nelson. 3,045,522.
Allen, Perry E. Screen for station wagon. 3,053,566, 9–11–62, Cl. 296—106.
Allen, Philip H., and B. J. Chromy. Registers. 3,038,158, 6–5–62, Cl. 346—33.
Allen, Philip J. Polarization resolver and mixer. 3,059,186, 10–16–62, Cl. 325—439.
Allen, Philip J., and I. D. Olin, to United States of America, Navy. Trimode turnstile monopulse feed. 3,037,204, 5–29–62, Cl. 343—100.
Allen, R. C., Business Machines, Inc.: *See*—
Allen, Ralph C. 3,045,901.
Mathews, John W. 3,019,967.
Walton, Paul E. 3,051,378.
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Allen, Richard E., and G. M. Deegan, to Corning Glass Works. Solid delay line improvements. 3,042,550, 7–3–62, Cl. 117—217.
Allen, Robert C., and G. E. Engle, to Special Products Corp. Tool for holding vehicle components. 3,030,103, 4–17–62, Cl. 269—17.
Allen, Robert C., Jr., to General Motors Corp. Removable oven liner. 3,036,193, 5–22–62, Cl. 219—35.
Allen, Robert D., to Houston Fearless Corp. Cargo-carrying apparatus with detachable wheeled support means. 3,022,086, 2–20–62, Cl. 280—30.
Allen, Robert E., E. R. Andrews, E. L. Schumann, and C. H. Tilford, to Richardson-Merrell Inc. Basic esters of triphenylethylenes. 3,031,449, 4–24–62, Cl. 260—247.2.
Allen, Robert J., and H. G. Petrow, to United States of America, Atomic Energy Commission. Production of uranium tetrafluoride. 3,023,078, 2–27–62, Cl. 23—14.5.
Allen, Robert L., to Georgia Tech Research Institute. Fuel injection nozzle and method of injecting fuel for internal combustion engines. 3,033,182, 5–8–62, Cl. 123—32.
Allen, Robert L., to Georgia Tech Research Institute. Spray nozzle with vibratory head and seat. 3,039,699, 6–19–62, Cl. 239—101.
Allen, Robert L., and R. H. Hart, to United States of America, Navy. Flexible support member. 3,032,151, 5–1–62, Cl. 189—34.
Allen, Robert W., to Henry Simon Ltd. Method of and apparatus for the conveying of powdered or pulverulent dry material in bulk. 3,035,868, 5–22–62, Cl. 302—29.
Allen, Robert Y., M. Shaw, and D. E. Umstead, to Fran Dee Corp. Soap bubble toy. 3,021,639, 2–20–62, Cl. 46—7.
Allen, Rudolph A. Cleats. 3,055,334, 9–25–62, Cl. 114—218.
Allen, Russell G., to Owens-Illinois Glass Co. Selective control apparatus for automatic glass forming machine. 3,015,189, 1–2–62, Cl 49—19.
Allen, Russell G., to Owens-Illinois Glass Co. Safety device for molding machines. 3,066,505, 12–4–62, Cl. 49—41.
Allen, Scott E.: *See*—
Rives, Malcolm D., Robertson, and Allen. 3,037,408.
Allen Sherman Hoff Co., The: *See*—
Mylting, Lauritz E. 3,061,994.
Mylting, Lauritz E., Spreter, and Horn. 3,038,482.
Allen, Sidney, to Bristol Siddeley Engines Ltd. Combustion chambers. 3,029,602, 4–17–62, Cl. 60—39.69.
Allen, Thomas C.: *See*—
Esenther, Glenn R., Allen, Casida, and Shenefelt. 3,070,495.
Allen, Thomas J. Gauge. 3,041,735, 7–3–62, Cl. 33—174.
Allen, Thomas O., to Jersey Production Research Co. Method of forming a borehole or casing. 3,055,424, 9–25–62, Cl. 166—21.
Allen, Thurman T. Unit water pressure cleaner for sink drains. 3,064,275, 11–20–62, Cl. 4—256.
Allen Tool & Engineering Ltd.: *See*—
Allen, Gordon D. 3,027,974.
Allen, W. D., Mfg. Co.: *See*—
Macleod, Keith. 3,017,203.
Macleod, Keith, and Rumsa. 3,069,822.
Allen, Wade W., and A. A. Kelley, to The Upjohn Co. Portable slide projector. 3,023,668, 3–6–62, Cl. 88—24.
Allen, Wade W., and D. Alway, to The Upjohn Co. Automatic recording nephelometer. 3,026,764, 3–27–62, Cl. 88—14.
Allen, Walter F.: *See*—
Russo, Nichola P., and Allen. 3,026,816.
Russo, Nichola P., and Allen. 3,070,035.
Allen, William, to S.O.S. Cinema Supply Corp. Air squeegees for motion picture film or other webs. 3,041,740, 7–3–62, Cl. 34—160.
Allen, William M., and R. E. Bell, to Frank Research Corp. Apparatus for feeding cylindrical material. 3,031,119, 4–24–62, Cl. 226—43.
Allenbach, Charles R.: *See*—
Spendelow, Howard R., Jr., Folkman, and Allenbach. 3,054,166.
Allenby, William F., and G. E. Lofgren, to Electrolux Corp. Vacuum cleaners. 3,017,654, 1–23–62, Cl. 15—327.
Allender, Richard E., to American Air Filter Co., Inc. Through-piping arrangement for air conditioning unit. 3,050,958, 8–28–62, Cl. 62—285.
Allendorfer, Harry C. Roll dressing tool and holder. 3,044,148, 7–17–62, Cl. 29—96.
Allenson, Ray E., to Phillips Petroleum Co. Separation of stages in a staged rocket. 3,029,734, 4–17–62, Cl. 102—49.
Allen Claes B., to Carl Allers Etablissement A/S. Ductor roller for use in distribution roller systems for liquid and semi-liquid substances. 3,037,449, 6–5–62, Cl. 101—350.
Aller, Claes B., to Carl Allers Etablissement A/S. Inking mechanism for intaglio printing machines. 3,044,396, 7–17–62, Cl. 101—157.
Aller, Edmund R., to General American Transportation Corp. Railway hopper cars. 3,048,448, 8–7–62, Cl. 302—52.

Aller, Edmund R., to General American Transportation Corp. Railway hopper cars. 3,048,449, 8–7–62, Cl. 302—52.

Aller, Edmund R., to General American Transportation Corp. Hopper car for granular materials. 3,048,450, 8–7–62, Cl. 302—52.

Aller, Willis F., to The Sheffield Corp. Gaging apparatus for bearings. 3,033,022, 5–8–62, Cl. 73—37.8.

Allerdice, Joseph M., and T. W. Stricklin, Jr., to E. I. du Pont de Nemours and Co. Laboratory fume hood door. 3,021,-130, 2–13–62, Cl. 268—42.

Allergy Section of the Research Foundation of Children's Hospital of the District of Columbia : *See*—
Todd, Richard H., and Stambaugh. 3,035,820.

Allers, Carl, Etablissement A/S : *See*—
Aller, Claes B. 3,037,449.
Aller, Claes B. 3,044,396.

Allers, Larry P., to Gibson, Inc. Mute means for string musical instruments. 3,015,247, 1–2–62, Cl. 84—273.

Alles, Francis P., to E. I. du Pont de Nemours and Co. Process for making thallium activated potassium iodide phosphor. 3,030,313, 4–17–62, Cl. 252—301.4.

Alles, Francis P., to E. I. du Pont de Nemours and Co. Photographic films. 3,047,695, 7–10–62, Cl. 96—83.

Alles, Francis P., to E. I. du Pont de Nemours and Co. Photographic stripping film. 3,057,722, 10–9–62, Cl. 96—83.

Alles, John. Cigarette holder. 3,021,849, 2–20–62, Cl. 131—182.

Alletag, Gerald C., to Philip A. Hunt Co. Photographic pyrozolidone developers in non-aqueous organic solvents. 3,038,801, 6–12–62, Cl. 96—66.

Alleva, Ezio : *See*—
Squillace, Joseph W., Alleva, and Monticelli. 3,026,614.

Alley, Robert P., and W. F. Dowdle, to General Electric Co. Fail safe overload protective system. 3,042,837, 7–3–62, Cl. 317—41.

Alley, Robert P., and R. B. Wilkerson, to General Electric Co. Condition responsive apparatus. 3,046,449, 7–24–62, Cl. 317—5.

Alley, Starling K., and O. Fuchs, to Olin Mathieson Chemical Corp. Reaction products of acetylenes and decaborane. 3,030,423, 4–17–62, Cl. 260—606.5.

Allgaier-Werke G.m.b.H. : *See*—
Ritter, Kaspar. 3,046,744.
Ritter, Kaspar. 3,060,898.
Ritter, Kaspar, and Hutter. 3,061,032.

Allgaier-Werke G.m.b.H., Firma : *See*—
Ritter, Kaspar. 3,037,572.

Allgauer Alpenmilch A.G. : *See*—
Luther, Justus. 3,020,689.

Allgauer Maschinenbau G.m.b.H. : *See*—
Weiss, Raphael. 3,019,587.

Allgeier, Barbara J. : *See*—
Musson, Donald M., and Jackson. 3,032,217.

Allgeier, Edwin A. : *See*—
Nobis, John F., Frank, and Allgeier. 3,067,260.

Allgemeine Elektricitats-Gesellschaft : *See*—
Alf, Fritz. 3,041,434.
Kalberlah, Fritz. 3,020,393.
Knoll, Joseph, Bestel, and Stolp. 3,021,882.

Allgeyer, Guy H., to Owens-Illinois Glass Co. Apparatus for handling glassware articles. 3,066,786, 12–4–62, Cl. 198—30.

Allgeyer, Guy H., to Owens-Illinois Glass Co. Method for handling glassware articles. 3,066,787, 12–4–62, Cl. 198—30.

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Alliance Machine Co., The : *See*—
Bowerman, Myron R. 3,028,977.
Harry, Robert J. 3,021,169.
Harry, Robert J. 3,044,639.
Stuckey, Richard L. 3,045,300.

Alliance Mfg. Co., Division of Consolidated Electronics Industries Corp., The : *See*—
Reeder, Richard D. 3,032,235.
Schneider, Emmor V. 3,022,460.

Alliance Paper & Packaging Co., Inc. : *See*—
Zalkind, Sidney J. 3,055,568.

Allianceware, Inc. : *See*—
Storck, Jack E., and Callahan. 3,038,601.

Allied Animal Research Corp. : *See*—
Parker, Cecil W. 3,046,193.

Allied Chemical Corp. : *See*—
Anello, Louis G., Gordon, and Woolf. 3,062,902.
Bandes, Selwyn. 3,018,276.
Beames, Geoffrey H., Gilbert, Richardson, and Veldhuis. 3,034,952.
Beauchamp, William D., Booth, and Degginger. 3,016,-404.
Bostian, Logan C., Joris, and Miller. 3,070,627.
Broadley, Robert D. 3,047,506.
Cawthon, Thomas M., Jr., and Joris. 3,050,514.
Cheng, Chao-Shing, and Taub. 3,047,482.
Cunningham, William J., Sweeney, and Woolf. 3,047,639.
Curtis, Omer E. Jr. 3,020,249.
Dawson, Ross R. 3,069,220.
Deanin, Rudolph D. 3,068,211.
Dege, Gerald J., and MacKenzie. 3,025,134.
De Long, Richard C., Kaplan, and Wagner. 3,035,078.
Dow, Russell H. 3,024,570.

Allied Chemical Corp. : *See*—Continued
Downey, John F., and Hoare. 3,018,154.
Erickson, Warren O., and Connolly. 3,061,580.
Ernest, Franklin M. 3,058,808.
Fiel, Robert J. 3,047,520.
Finan, James A. 3,053,716.
Formaini, Robert L., and Ellis. 3,057,918.
Frazier, Thomas C., Jr., and Sherman. 3,065,231.
Gilbert, Everett E. 3,068,144.
Gilbert, Everett E., and Lombardo. 3,037,906.
Gilbert, Everett E., and Rumanowski. 3,040,095.
Gilbert, Everett E., and Rumanowski. 3,043,674.
Gilbert, Everett E., and Rumanowski. 3,062,883.
Goldman, Conrad, and Rosenbaum. 3,051,993.
Gordon, Joseph, and Sukornick. 3,055,817.
Grossmann, Samuel W. 3,070,425.
Hartmann, Leonhard T. 3,027,318.
Hildreth, Clarence L. 3,063,797.
Howard, Carlton J., and Sobolewski. 3,022,159.
Kallfelz, Alois J. 3,022,158.
Kaplan, Melvin. 3,034,996.
Karsay, Bela. 3,048,472.
Karsay, Bela. 3,048,473.
Khawam, Antoine. 3,029,208.
Khawam, Antoine. 3,063,964.
Little, Edwin D. 3,064,004.
Lloyd, Billy E. 3,016,379.
Lloyd, Billy E. 3,042,672.
Mason, Robert W., and Kelly. 3,043,664.
Neill, Ronald H., and Woolf. 3,047,641.
Noone, William H. 3,043,426.
Papero, Patrick V., Jr., and Helfaer. 3,065,208.
Pietruszka, Edward W., Brown, and Mueller. 3,050,544.
Pietruszka, Edward W., Nesty, and Pinter. 3,037,002.
Pike, Herbert J., Jr. 3,031,734.
Pike, Herbert J., Jr. 3,037,260.
Porter, Frank. 3,066,356.
Porter, Frank, and Reventas. 3,031,426.
Rast, Gustav E. 3,034,869.
Rehfuss, Caleb, and Huber. 3,033,895.
Schmidt, Lawrence D. 3,047,473.
Schuber, John. 3,020,196.
Schuber, John. 3,020,197.
Smith, Joseph A. 3,037,855.
Smith, Lee B., and Woolf. 3,043,889.
Snider, Orvill E., Belden, Beuerman, and Seebohm. 3,021,326.
Stahl, Richard F., and Woolf. 3,049,572.
Stahl, Richard F., and Woolf. 3,049,573.
Stasse, Henry L. 3,047,447.
Stewart, Hercules D., Morris, and Wilson. 3,049,436.
Sweeney, Richard F., and Woolf. 3,018,306
Sweeney, Richard F., and Woolf. 3,047,640.
Taub, Bernard. 3,036,975.
Toone, Gilbert C. 3,053,778.
Townend, Robert V., and Wilkalis. 3,029,129.
Wethly, Frans. 3,020,138.
Wethly, Frans. 3,070,516.
Woodlock, Paul B., Santimauro, and Vesce. 3,020,279.

Allied Chemical & Dye Corp. : *See*—
Erchak, Michael, Jr. 3,060,163.

Allied Control Co., Inc. : *See*—
Bancroft, James E. 3,034,744.
Horman, John H. 3,040,145.
Horman, John H. 3,059,076.

Allied Ironfounders Ltd. : *See*—
Radcliffe, Nigel T., and Flowers. 3,055,547.

Allied Kid Co. : *See*—
Cohen, Jerome M., and Saryan. 3,027,276.

Allied Paint Mfg. Co. : *See*—
Lewis, Jesse M. 3,033,468.

Allied Plastics Co. : *See*—
Crane, Walton B. 3,040,966.
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Crane, Walton B. 3,055,572.
Crane, Walton B. 3,067,039.
Crane, Walton B. 3,069,007.
Crane, Walton B. 3,069,067.
Long, Harry G., and Crane. 3,040,968.
Treiman, Morris. 3,069,054.

Allied Research Associates, Inc. : *See*—
Gertel, Maurice. 3,066,905.
Kinder, David H. 3,060,071.

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Hartman, Harry J., and Pocock. 3,053,691.
Pocock, Walter E. 3,053,692.

Allied Thermal Corp. : *See*—
Person, Ernest H. 3,034,725.

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Abel, Finn R. 3,016,637.

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Allin, Frederick R. : *See*—
Courtot, Louis B., and Allin. 3,026,129.

Allin, Frederick R., to The Weatherhead Co. Drain valve. 3,022,797, 2–27–62, Cl. 137—599.2.

Allin, George S., Jr., to J. I. Case Co. Gimbal mounted hydraulic cylinder. 3,039,213, 6–19–62, Cl. 37—144.

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Allinquant, Fernand S. Fluid-tight joint protected against dust for telescopic shock-absorbers of automobile vehicles. 3,020,055, 2–6–62, Cl. 277—187.

Allinquant, Fernand S. Oleo-pneumatic suspension system for motor vehicles. 3,033,553, 5–8–62, Cl. 267—15.

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Allis-Chalmers Mfg. Co.: *See*—
Affeldt, Walter A. 3,044,813.
Ainsworth, Chester D. 3,065,321.
Alonso, Bernardo. 3,016,236.
Ambroz, Charles F. 3,018,545.
Ambroz, Charles F. 3,041,039.
Andersen, Wilhelm O., and Haegh. 3,016,482.
Baude, John. 3,056,043.
Baude, John. 3,067,338.
Betzhold, George R., and Conrad. 3,067,081.
Brundage, John F. 3,033,295.
Christian, Edward T., and Ureda. 3,021,515.
Codlin, James B. 3,059,453.
Comfort, Samuel T. 3,042,149.
Comfort, Samuel T. 3,065,601.
De Snoo, Arie P., and Maxim. 3,069,609.
Dreisin, Alexander. 3,035,456.
Eckert, Herbert L. 3,065,762.
Feller, Thomas R. 3,061,342.
Fisch, Jacob, McCormack, and Smyser. 3,051,186.
Flamm, Thomas J. 3,023,840.
Gallatin, Paul M. 3,027,436.
Gibbons, Edward A. 3,021,517.
Gieskieng, David H. 3,042,389.
Goodwin, Edwin C., Jr. 3,019,309.
Goodwin, Edwin C., Jr. 3,021,400.
Harrer, Paul H., and Shannon. 3,016,675.
Hartwell, Sidney J. 3,041,997.
Hasley, Howard A. 3,022,893.
Hauck, Jon F. 3,016,525.
Hawk, Dale W. 3,058,558.
Heckenkamp, Edward B. 3,050,037.
Henderson, Floyd E. 3,054,845.
Herr, Charles H., Jr. 3,045,158.
Herr, Charles H., Jr. 3,044,595.
Hess, Paul D. 3,060,706.
Hoffmann, Jack H., and Hogstad. 3,023,331.
Honsinger, Vernon B. 3,045,135.
Kirkland, Terence G. 3,068,091.
Krabbe, Ulrik H., and Sorensen. 3,017,591.
Kreekon, Nicholas, and Lane. 3,015,756.
Kreekon, Nicholas, Lane, and Kotowski. 3,052,820.
Kush, Theodore G. 3,018,849.
Lellep, Otto G. 3,063,647.
Loeb, Ernest. 3,042,211.
Millar, Donald O., and Kraemer. 3,020,053.
Mozina, Alfred L., and Peeples. 3,031,604.
Murphy, Bernard J. 3,024,028.
Nichols, Beverly R. 3,063,672.
Oberholtz, Lester E. 3,048,049.
Peeples, Robert M., and Boening. 3,060,358.
Perry, Elijah R., and Peek. 3,021,410.
Pollak, Robert J. 3,063,649.
Ramrath, Joseph M. 3,067,307.
Rideout, Vincent C. 3,060,421.
Roubal, Alexander J. 3,029,945.
Roubal, Alexander J. 3,029,947.
Roubal, Alexander J. 3,030,098.
Roubal, Alexander J. 3,068,015.
Schuster, Frank C. 3,027,033.
Schweer, Herman. 3,061,723.
Schweer, Herman. 3,069,995.
Sealey, William C. 3,041,560.
Sence, Leonard H. 3,039,778.
Tanke, Willard H. 3,023,816.
Tanke, Willard H. 3,023,819.
Tanke, Willard H. 3,026,944.
Tanke, Willard H. 3,026,945.
Tanke, Willard H. 3,044,712.
Tengsater, Torsten N. 3,028,328.
Tengsater, Torsten N. 3,028,497.
Turnbull, Maynard H., Jr. 3,068,878.
Vogel, Fred J. 3,017,572.
Wang, Orville S. 3,026,593.
Whippen, Warren G., McCormack, and Breda. 3,026,085.
Whitman, Carl G., and Swain. 3,021,412.
Wiederkehr, Karl P. 3,040,280.
Wood, John A. 3,063,528.

Allis, Louis, Co., The: *See*—
Bradburn, William J., Jr., Hansen, and Conger. 3,041,565.
Hansen, Hans R. A. 3,041,514.
Hansen, Hans R. A., and Norman. 3,045,161.
Jones, Byron M. 3,022,453.
Munson, Chester L. 3,054,007.
Wilkerson, Alan W. 3,062,969.
Wilkerson, Alan W., and Bradburn. 3,068,394.

Allison, Alvin R.: *See*—
Roberson, Bob J. 3,037,295.
Allison, Blaine M., to Owens-Illinois Glass Co. Capsule dispensers. 3,055,559, 9–25–62, Cl. 222—242.
Allison, Charles R.: *See*—
Thompson, Robert E., and Allison. 3,015,630.
Allison, Daniel B.: *See*—
Coury, Donald E., and Simmons. 3,066,600.
Allison, Donald K., to Cool Fin Electronics Corp. Heat-dissipating shield. 3,023,264, 2–27–62, Cl. 174—35.
Allison, Donald K., to Cool Fin Electronics Corp. Heat dissipating shield. 3,057,950, 10–9–62, Cl. 174—35.
Allison, Frank S. Berry box carrier. 3,055,566, 9–25–62, Cl. 224—5.
Allison, Leslie R.: *See*—
Blosser, Herman G., and Allison. 3,026,507.
Pascoe, Frank T., and Allison. 3,041,448.
Allison, Matthew L. Mat dispenser or the like. 3,067,913, 12–11–62, Cl. 222—211.
Allison, William D.: *See*—
Dudley, Arthur R., Royder, and Allison. 3,043,431.
Allison, William D. Load compensating spring suspension for vehicles. 3,025,078, 3–13–62, Cl. 280—124.
Allison, William D., to Ford Motor Co. Vehicle suspension having U-shaped torsion bar. 3,029,091, 4–10–62, Cl. 280—124.
Allison, William D., 50% to E. J. Gray. Torsion bar springs. 3,037,789, 6–5–62, Cl. 280—124.
Allium, Inc.: *See*—
Teigen, Ferdinand A. 3,067,522.
Teigen, Ferdinand A. 3,067,523.
All-Luminum Products, Inc.: *See*—
Rachman, Isadore B., and Bobb. 3,029,115.
Allmaker, Ali M.: *See*—
Adelson, Leonard, and Allmaker. 3,049,651.
Allman, William T., Jr., and C. E. Layman, to Celanese Corp. of America. Manufacture of bulked fiber. 3,050,819, 8–28–62. Cl. 28—1.
Allman, William T., Jr., R. G. Higgins, Jr., and J. D. Underwood, to Celanese Corp. of America. Filters. 3,068,873, 12–18–62, Cl. 131—10.
Allmand, John W. Automatic bilge water draining devices. 3,067,714, 12–11–62, Cl. 114—185.
Allmänna Svenska Elektriska Aktiebolaget: *See*—
Ågren, Per. 3,035,327.
Andersson, Anders R., and Ågren. 3,019,286.
Bergström, Lars R. 3,037,152.
Claesson, Harry. 3,062,383.
Dillon, Charles, and Engström. 3,035,204.
Engstrom, Gunnar P. 3,021,471.
Eriksson, Bengt. 3,028,222.
Forwald, Haakon. 3,047,697.
Forwald, Haakon. 3,056,873.
Forssell, Harry. 3,038,134.
Gynt, Sven. 3,046,426.
Hansen, Åge. 3,017,485.
Hansson, Hugo. 3,047,845.
Hansson, Hugo. 3,059,126.
Hansson, Hugo, Petterson, and Angeid. 3,068,458.
Jansson, Nils, and Holm. 3,064,093.
Karsten, Olav. 3,047,799.
Liljeblad, Ragnar, and Madsen. 3,026,256.
Lindstrom, Olle, and Hedman. 3,067,121.
Ljung, Per S., and Lindstrom. 3,031,733.
Rydinger, Mats. 3,018,096.
Schulz, Richard. 3,018,352.
Virsberg, Lars-Goran, and Kelen. 3,066,180.
Von Platen, Baltzar. 3,064,558.
All-Matic Corp.: *See*—
Lambrix, Maurice A. 3,070,097.
Allmetal Weatherstrip Co.: *See*—
Collin, Paul N., and Cook. 3,026,581.
Lundgren, Herbert K. 3,026,580.
Lundgren, Herbert K., Cook, and Collin. 3,025,575.
Alloy Die Casting Co.: *See*—
Smith, Donald C., and King. 3,016,146.
Alloy Surfaces Co., Inc.: *See*—
Samuel, George A. 3,066,044.
Samuel, George A., and Bell. 3,059,911.
Samuel, George A., Bell, Grosvenor, and Jackson. 3,021,231.
Alloyd Electronics Corp.: *See*—
Bascho, Malcolm, Comerford, Doyle, and Hetherington. 3,020,387.
Bourdeau, Romeo G. 3,031,338.
Alloyd Research Corp.: *See*—
Hay, Donald A. 3,036,824.
Alloys Research & Mfg. Corp.: *See*—
Storchheim, Samuel. 3,063,836.
Allpak Products Ltd.: *See*—
Jacobs, Edward J. H. 3,053,431.
Allred, Evan L.: *See*—
Scott, Cleveland R., and Allred. 3,068,640.
Allred, Victor D., to The Ohio Oil Co. Mist removal. 3,059,393, 10–23–62, Cl. 55—90.
Allsing, Karl J.: *See*—
Grasselli, Robert, and Allsing. 3,064,814.
Allsopp, Wilfred J.: *See*—
Powell, Dan, and Allsopp. 3,056,447.
Allston, Hugh C., 50% to W. O. Hanahan. Flood gates. 3,025,677, 3–20–62, Cl. 61—28.

Allured, Robert B., and M. Weiss, to General Motors Corp. Circular trace scope display. 3,047,767, 7–31–62, Cl. 315—24.

Allwood Inc.: *See*—
Himmelheber, Max, Steiner, and Kull. 3,067,456.

Allyn, Harold D.: *See*—
Belisle, Adelard J., Allyn, and Re. 3,058,774.
Belisle, Adelard J., Allyn, and Re. 3,069,201.

Allyn, Harold D. Receiver with T-slot opening for a slide block. 3,058,399, 10–16–62, Cl. 89—191.

Allyn, Robert M., and S. D. Elliott, to Phillips Petroleum Co. Interpretation of seismic records. 3,016,970, 1–16–62, Cl. 181—.5.

Alm, Benjamin C., Jr., to Westinghouse Electric Corp. Pulse time discriminator apparatus. 3,048,712, 8–7–62, Cl. 307—88.5.

Alm, Erhard J., to Vulcan Equipment Co., Ltd. Tire spreading apparatus. 3,029,066, 4–10–62, Cl. 254—50.3.

Alm, Erhard J., to Vulcan Equipment Co. Ltd. Inflatable pressure device. 3,031,719, 5–1–62, Cl. 18—18.

Almassy, Elek, 48% to D. Y. Arenson. Decorticating machine and process. 3,050,788, 8–28–62, Cl. 19—28.

Almen, Bengt S. O., to Sandvikens Jernverks Aktiebolag. Tool holder. 3,028,657, 4–10–62, Cl. 29—96.

Almer, Friedrich H. R.: *See*—
Blank, Hans Hinrich, van Zanten, Kuiper and Almer. 3,026,224.

Almon, William H. Emplacement former. 3,048,911, 8–14–62, Cl. 25—118.

Almor Corp.: *See*—
Foster, Allan D. 3,015,400.

Almquist, Edgar W., Jr. Shifting mechanism. 3,057,222, 10–9–62, Cl. 74—473.

Almquist, Gustav F. W. Apparatus for counting and sorting coins. 3,040,858, 6–26–62, Cl. 194—6.

Almquist, Vernon C., to Armour & Co. Apparatus for treating poultry. 3,041,658, 7–3–62, Cl. 17—11.2.

Almquist, Wallace E. Vapor-liquid contactor and separator. 3,063,220, 11–13–62, Cl. 55—225.

Almy, Merl M.: *See*—
Van Syoc, Auburn G., Sr., Almy, and Sydow. 3,047,883.

Almy, Richard, and D. T. Zentmyer, to Armstrong Cork Co. Tessellated surface covering. 3,056,224, 10–2–62, Cl. 41—23.

Alonso, Bernardo, to Allis-Chalmers Mfg. Co. Rotary kiln discharge end construction. 3,016,236, 1–9–62, Cl. 263—32.

Alos A.G.: *See*—
Kuster, Edwin. 3,036,495.

Alosky, Joseph J. Apparatus for molding thermoplastic sheets. 3,040,380, 6–26–62, Cl. 18—19.

Aloway, Joseph H. Signal device for vehicles. 3,068,449, 12–11–62, Cl. 340—73.

Alpar Mfg. Co.: *See*—
Parmenter, Charles R., and Laustrup. 3,047,107.

Alpaugh, Fred M. Receptacle supports for inclined surfaces. 3,017,152, 1–16–62, Cl. 248—148.

Alper, David, to The Bendix Corp. Phasing apparatus. 3,022,499, 2–20–62, Cl. 343—53.

Alper, Henry S., to Mag-Powr Games, Inc. Table game apparatus. 3,056,605, 10–2–62, Cl. 273—85.

Alpers, Frederick C., to United States of America, Navy. Function generator using television-type scanning. 3,018,-053, 1–23–62, Cl. 235—193.

Alpers, Frederick C., to United States of America, Navy. Precision time interval generator having integrating stages. 3,028,555, 4–3–62, Cl. 328—127.

Alpert, Louis, to United States of America, Navy. Impact switch. 3,038,973, 6–12–62, Cl. 200—61.45.

Alpert, Norman: *See*—
Newman, Stanley R., Vermillion, Bailey, and Alpert. 3,031,279.

Alpha Handels A.G.: *See*—
Siron, Raoul. 3,029,449.

Alpha Molykote Corp.: *See*—
Bowen, Albert E., Jr. 3,030,651.
Sonntag, Alfred, and Bowen. 3,028,746.

Alpha Research Corp.: *See*—
Crane, Samuel P., and Kent. 3,022,063.

Alpsteg, Gustav H., to Bahco, Aktiebolaget. Hydraulic pressure-multipliers. 3,057,163, 10–9–62, Cl. 60—54.6.

Alpura Aktiengesellschaft: *See*—
Loliger, Willi. 3,020,120.
Loliger, Willi. 3,055,731.

Alquist, Henry E., to Phillips Petroleum Co. Liquid dispensing apparatus. 3,044,502, 7–17–62, Cl. 141—119.

Alquist, Henry E., and H. C. Walters, to Phillips Petroleum Co. Leak detecting method and composition for fuel systems. 3,027,754, 4–3–62, Cl. 73—40.7.

Alric, Gustave C. A. Method for finishing knitted wear. 3,057,177, 10–9–62, Cl. 66—89.

Alrich, John C., and D. H. Hartke, to Burroughs Corp. Floating-point computer. 3,022,006, 2–20–62, Cl. 235—160.

Alsacienne de Constructions Mechaniques, Societe: *See*—
Audemar, Pierre. 3,060,951.
Deyber, Louis. 3,066,517.
Le Blan, Louis V. S., and Radix. 3,056,301.
Schellenberg, Henri. 3,044,726.
Vialle, Rene. 3,051,997.
Ville, Jean A., and Bouzitat. 3,015,446.

Alsacienne de Reglage Thermique "Sart," S.a.r.l., Societe: *See*—
Louis, Joseph. 3,067,410.

Alsager, Leslie E., to United States of America, Navy. Emergency ship propulsion equipment. 3,030,910, 4–24–62, Cl. 115—41.

Alsaker, Oscar B., to James R. Kearney Corp. Switch operating mechanisms. 3,064,484, 11–20–62, Cl. 74—97.

Alsberg, Dietrich A., and E. C. Denton, to Bell Telephone Laboratories, Inc. Duplex station employing a reflex traveling wave amplifier and frequency conversion. 3,045,235, 7–17–62, Cl. 343—180.

Alsbury, Allan, K. A. Phillips, and B. Taylor, to Lever Brothers Co. Process for preparing a mixture of soap and fatty-acyl-aminomethane sulfonate. 3,047,509, 7–31–62, Cl. 252—117.

Alsch, Gottfried: *See*—
Preissler, Karl, and Alsch. 3,044,806.

Alsing, Carl F., to Westinghouse Electric Corp. Thermoelectric air conditioning unit. 3,040,538, 6–26–62, Cl. 62—3.

Alsing, Carl F., to Westinghouse Electric Corp. Thermopile. 3,054,840, 9–18–62, Cl. 136—4.

Alsobrooks, Darriel L., and C. C. Wrigley, to General Motors Corp. Brake cooling fluid pump. 3,061,048, 10–30–62, Cl. 188—18.

Alsop, Alfred N., to Lines Bros. (Canada) Ltd. Sliding catch locking means for baby carriages. 3,029,087, 4–10–62, Cl. 280—47.37.

Alspach, Hardin S., N. L. Gamble, W. J. Hampshire, J. E. Mellinger, and H. Musch, to Goodyear Aircraft Corp. Apparatus for making fiber-resin parts. 3,044,117, 7–17–62, Cl. 18—20.

Alspach, Wallace J., and I. B. Cooper, Jr., to The Bendix Corp. Flowmeter. 3,049,917, 8–21–62, Cl. 73—194.

Alstad, Orval N., and J. B. van den Bergh, to Minnesota Mining and Mfg. Co. Bonding structure for laminates. 3,030,223, 4–17–62, Cl. 117—26.

Alston, George L.: *See*—
Hohos, Edward J., and Alston. 3,022,840.

Alston, Mervyn W.: *See*—
Alston, Mervyn W., Arthur J. H., and Alston. 3,027,313.

Alsynite Co. of America: *See*—
Conroy, John L. 3,021,576.

Alt, Carl G.: *See*—
MacLeod, David E., and Alt. 3,019,718.
McGrath, William L., and Alt. 3,045,440.

Alt, Carl G., to Carrier Corp. Ice making. 3,021,686, 2–20–62, Cl. 62—132.

Alt, Carl G., to Carrier Corp. Grid and platen ice making. 3,045,439, 7–24–62, Cl. 62—66.

Alt, Leslie L.: *See*—
Kaveggia, Frederick, Berst, and Alt. 3,067,080.
Krueger, Robert H., Berst, and Alt. 3,039,970.

Altar, William, and C. W. Helstrom, to United States of America, Navy. Acoustic homing torpedo scanning system. 3,048,813, 8–7–62, Cl. 340—3.

Altares, Thomas J., Jr., to Callery Chemical Co. Boron fuels. 3,067,257, 12–4–62, Cl. 260—606.5.

Altavilla, Alex P.: *See*—
Hoffstadt, Walter F., and Altavilla. 3,056,674.

Altec Lansing Corp.: *See*—
Seeley, Edward S. 3,051,788.

Altenau, Edward E., T. W. Leverett, and J. E. McGregor, to International Business Machines Corp. Floating head. 3,065,460, 11–20–62, Cl. 340—174.1.

Altenschopfer, Theodor, E. Enk, F. Knorr, and H. Spes, to Wacker-Chemie G.m.b.H. Process for the production of enolacetates. 3,043,862, 7–10–62, Cl. 260—488.

Alter, Arthur: *See*—
Hallbrouck, Richard B., and Alter. 3,030,269.

Alter, Harvey, to Union Carbide Corp. Foamed composition comprising a vinyl resin plastisol and a siloxane-oxyalkylene block copolymer and method of making same. 3,061,558, 10–30–62, Cl. 260—2.5.

Alterman, Abraham A.: *See*—
Robertson, Harry J., Frank, Alterman, and Oxman. 3,028,243.

Altermatt, Hans, to Ciba Ltd. Aminobenzanthrone dyestuffs. 3,036,077, 5–22–62, Cl. 260—272.

Althen, Harold: *See*—
Kurlander, John, and Althen. 3,045,649.

Altherr, Russell G.: *See*—
Maloney, Bernard, Altherr, and Blew. 3,022,867.

Altier, William J., to Dynamics Corp. of America. Means for controlling the effective resistance of piezoelectric quartz crystals. 3,056,894, 10–2–62, Cl. 310—8.9.

Altman, Bernard, and P. Stiller, to Still-Man Mfg. Corp. Removable hinged electrical heater. 3,054,882, 9–18–62, Cl. 219—37.

Altman, Daniel E. Apparatus for the rapid measurement of slight frequency differences or phase angles between two signals. 3,068,407, 12–11–62, Cl. 324—82.

Altman, Frank, Jr., to Fabricon Products, Division of The Eagle-Picher Co. Handling of flexible plastic bags. 3,044,-223, 7–17–62, Cl. 53—385.

Altman, Fred E., and L. W. Von Halla, to Eastman Kodak Co. Triplet lens. 3,057,260, 10–9–62, Cl. 88—57.

Altman, Frederick J., to International Telephone and Telegraph Corp. Signal receiving system. 3,048,782, 8–7–62, Cl. 250—20.

Altman, Gerald: *See*—
Saunderson, Jason L., and Altman. 3,056,330.

Altmann, Albrecht: *See*—
Backwinkel, Johannes, and Altmann. 3,049,587.

Altmann, Norman A., and W. H. Bureau, to Butler Paper Corps. Paper de-coating and benefaction process and products thereof. 3,016,323, 1–9–62, Cl. 162—4.

Altmann, Rudolf W. Facial showering device. 3,045,669, 7–24–62, Cl. 128—66.

Altmann, Werner E., to Daimler-Benz Aktiengesellschaft. Differential gear. 3,018,672, 1–30–62, Cl. 74—650.

Altmann, Werner E., to Daimler-Benz Aktiengesellschaft. Selectively engageable transmission. 3,020,991, 2–13–62, Cl. 192—53.

Altmann, Werner E., to Daimler-Benz Aktiengesellschaft. Shifting arrangement for change-speed gears. 3,059,492, 10–23–62, Cl. 74—334.

Alton Box Board Co.: *See—*
Dotzenroth, Paul N. 3,015,923.
Woodward, William W. 3,044,616.

Alton, Davia E.: *See—*
Lobel, Martin A. 3,041,734.

Alton, Werner, to J. D. Calder. Apparatus for testing agility and powers of co-ordination. 3,024,020, 3–6–62, Cl. 272—57.

Alton, William J.: *See—*
Raub, Samuel H. S., Alton, Joachim, and Palmquist. 3,044,489.

Altsheler, Leonard, to Rain Products, Inc. Combination umbrella and water pistol. 3,038,483, 6–12–62, Cl. 135—16.

Altson, Ralph, to General Motors Corp. Journal box. 3,038,766, 6–12–62, Cl. 308—180.

Altwicker, Elmar R., to Olin Mathieson Chemical Corp. Reaction of pentaborane(9) with benzene or alkylbenzenes. 3,030,420, 4–17–62, Cl. 260—606.5.

Altwicker, Elmar R., A. B. Garrett, E. A. Weilmuenster, and S. W. Harris, to Olin Mathieson Chemical Corp. Preparation of monoalkylated pentaborane. 3,038,012, 6–5–62, Cl. 260—606.5.

Altwicker, Elmar R., A. B. Garrett, E. A. Weilmuenster, and S. W. Harris, to Olin Mathieson Chemical Corp. Preparation of alkylated pentaborane. 3,052,725, 9–4–62, Cl. 260—606.5.

Altwicker, Hubert J., and K. F. Braeuninger. Manufacture of extruded sections by using nonround billets. 3,059,768, 10–23–62, Cl. 207—2.

Aluise, Robert R., C. W. Webb, and H. E. Violette, to United States of America, Navy. Handling attachment. 3,069,026, 12–18–62, Cl. 214—1.

Alumakit Co., Inc.: *See—*
Swanson, Roger P. 3,064,283.

Alumasc Ltd.: *See—*
Lewis, Eric C. 3,024,800.

Aluminium-Industrie-Aktien-Gesellschaft: *See—*
Gubler, Huldreich. 3,046,067.
Hegland, Reidar. 3,042,604.
Hug, Hans. 3,065,073.
Jack, Stanton E. 3,025,252.
Moeller, Heinrich W. R., and Powis. 3,027,559.
Schmitt, Johannes. 3,043,755.
Schmitt, Johannes. 3,064,409.
Trägner, Erich, and Küster. 3,050,793.

Aluminium Laboratories Ltd.: *See—*
Jack, Stanton E. 3,066,390.

Aluminium-Walzwerke Singen G.m.b.H.: *See—*
Siebel, Gustav, Muller, Tragner, and Broockmann. 3,032,448.

Aluminum Body Corp.: *See—*
Magor, Leslie H. 3,028,191.

Aluminum Co. of America: *See—*
Binger, Wayne W., and Vandenburgh. 3,029,795.
Bishop, Henry D. 3,069,043.
Blayden, James H. 3,022,029.
Butler, William R., Moore, Keith, and Sanborn. 3,057,271.
Clark, John W., Young, and Rawlins. 3,052,747.
Criner, Charles B. 3,031,299.
Falcon, David J. 3,052,014.
Farrah, George H. 3,058,901.
Freeman, Paul E. 3,025,520.
Gardner, George R., and Buck. 3,022,556.
Guyot, Marius G. 3,049,767.
Haupin, Warren E., and Maduk. 3,060,115.
Hess, Paul D., Brondyke, and Jarrett. 3,039,864.
Hill, Harry N., Clark, and Woodburn. 3,051,217.
Hollingsworth, Ernest H., and Keller. 3,043,754.
Keller, Fred, and Zelley. 3,039,898.
Keller, Fred, and Zelley. 3,039,899.
Kirby, Ben H., Jr., and Cochran. 3,058,855.
Kramer, Max J. 3,019,373.
Lee, Maurice F., Brondyke, and Hess. 3,025,155.
McNamara, James H. 3,066,054.
McNamara, James H., Caprio, and Miller. 3,035,932.
Myers, Robert R., and Atman. 3,026,497.
Nelson, David G. 3,018,593.
Nuernberger, Howard H. 3,038,573.
Thomas, John W., and Osborne. 3,039,247.
Trautman, Leonard H. 3,018,885.
Vandenburgh, David G. 3,063,138.
Vandenburgh, David G., Binger, and Ponchel. 3,016,885.
Zelley, Walter G. 3,039,910.

Aluminum Research Corp.: *See—*
Criger, Glenn M. 3,049,314.
Hunter, Joseph L. 3,062,465.
Hunter, Joseph L., and Martin. 3,056,880.
Kubie, William L. 3,042,558.

Aluotto, Dominick M. Dispensing device with means to return material to supply. 3,027,053, 3–27–62, Cl. 222—309.

Alvarez, Alfonso. Adjustable slat blind. 3,051,231, 8–28–62, Cl. 160—34.

Alvarez, Alfonso. Wall bracket. 3,051,427, 8–28–62, Cl. 248—224.

Alvarez, Felix, to ABA Cellophane Products Corp. Continuous envelopes. 3,045,891, 7–24–62, Cl. 229—69.

Alverson, Charles T., Jr.: *See—*
Mathels, Theodore, and Alverson. 3,026,927.

Alverson, Laurence H.: *See—*
Rentshler, Delmar F., Langlois, Larson, Alverson, and Liggett. 3,039,935.

Alves, Leonel V.: *See—*
Soares, Joe F., and Alves. 3,035,729.

Alvey Conveyor Mfg. Co.: *See—*
Johnston, Kenneth H. 3,070,241.
Roth, Ernest E., and Tanner. 3,038,615.

Alvey-Ferguson Co., The: *See—*
Sullivan, Norman M. 3,059,747.

Alvin, Walter D., and V. Smith, to Velsicol Chemical Corp. Production of free flowing granular heptachlor compositions. 3,028,305, 4–3–62, Cl. 167—42.

Alwac International: *See—*
Beek, Joseph A., Jr., and Herold. 3,029,025.
Cox, Austin G. 3,055,314.
Holmquist, Sixten. 3,060,867.

Alway, Clayton D.: *See—*
Allen, Wade W., and Alway. 3,026,764.

Alweg-Forschung, Gesellschaft mit beschrankter Haftung: *See—*
Oberpaul, Franz X. 3,048,127.
Rosenbaum, Kurt, Bell, and Ost. 3,049,162.

Am, Ingvald, to Bolidens Gruvaktiebolag. Bore crown adapted to be used in diamond drilling. 3,026,952, 3–27–62, Cl. 175—330.

Amacher, Gene L., and J. F. Paugstat, to The National Cash Register Co. Clock signal generating means. 3,067,934, 12–11–62, Cl. 235—61.115.

Amada, Sanae, M. Matsumoto, and K.-I. Ukitsu. High speed printer. 3,045,590, 7–24–62, Cl. 101—93.

Amadon, Samuel M., to Telemecanique Electrique, La. Insulator for a set of electrical distribution bars. 3,043,904, 7–10–62, Cl. 174—158.

Amador, Joan. Nap raising attachment for cleaning devices. 3,065,491, 11–27–62, Cl. 15—396.

Amalgamated Electric Corp., Ltd.: *See—*
Duffield, Joseph F. 3,053,957.

Amalgamated Equipment Co.: *See—*
Meredith, John A. 3,043,382.

Amalgamated Growth Industries, Inc.: *See—*
Berhman, John W. 3,041,824.
Fetz, Erich. 3,029,635.

Amalgamated Plastic Corp.: *See—*
Bacon, Arnold, Silverman, and Cote. 3,023,435.

Amans, Robert L., to General Electric Co. Resistance to depreciation of electroluminescent phosphors. 3,037,938, 6–5–62, Cl. 252—301.3.

Amarlite Corp.: *See—*
Neal, Harry B. 3,068,970.

Amatel, Harold, to Westinghouse Electric Corp. Duplex container and locking means therefor. 3,069,003, 12–18–62, Cl. 206—45.11.

Amato, Carmelo J., to Thompson Ramo Wooldridge Inc. Position servo. 3,017,557, 1–16–62, Cl. 318—467.

Amato, John. Bucket conveyor. 3,044,602, 7–17–62, Cl. 198—145.

Amato, Ralph P.: *See—*
Jennings, Marvin D., and Amato. 3,059,437.

Ambelang, Joseph C., to The Firestone Tire & Rubber Co. N-benzyl-N′-phenyl-p-phenylenediamine and its manufacture. 3,019,262, 1–30–62, Cl. 260—570.9.

Amberg, Lyle O., to Hercules Powder Co. Laminating process. 3,058,859, 10–16–62, Cl. 154—43.

Amberg, Styrbjorn, and N. G. Schrewelius, to Kanthal, Aktiebolaget. Sintered electric resistance heating elements and methods of producing such elements. 3,051,924, 8–28–62, Cl. 338—330.

Amblard, Marcel E., and R. H. Carnelly. High pressure metallic packing. 3,066,944, 12–4–62, Cl. 277—156.

Ambler, Charles W., to American Zinc Lead and Smelting Co. Galvanic protection system. 3,037,926, 6–5–62, Cl. 204—197.

Ambler, Geoffrey H., to Ambler Superdraft Ltd. Apparatus for drafting textile fibres. 3,063,102, 11–13–62, Cl. 19—287.

Ambler Superdraft Ltd.: *See —*
Ambler, Geoffrey H. 3,063,102.

Ambler, Vernon C., E. E. Anderson, and F. Wright. Bags and method and machine for making same. 3,015,996, 1–9–62, Cl. 93—8.

Ambli, Andrew. Top supporting bow member for trailers and the like. 3,066,974, 12–4–62, Cl. 296—100.

Amborski, Leonard E., to E. I. du Pont de Nemours and Co. Organic polymeric structure having an ultraviolet light absorbent compound incorporated therein. 3,043,709, 7–10–62, Cl. 117—7.

Ambros, Hans, to Gunther Wagner. Writing instrument, more particularly a ball-point pen. 3,019,767, 2–6–62, Cl. 120—42.03.

Ambros, Otto: *See—*
Rindtorff, Embrecht, Schmitt, and Keller. 3,035,037.

Ambrose, George R., to General Electric Co. Turbo-fan rotor hub. 3,053,437, 9–11–62, Cl. 230—134.
Ambrose, John J.: *See*—
Krakauer, Merrill, and Ambrose. 3,058,613.
Ambrose, William J., to Minneapolis-Honeywell Regulator Co. Transmitting apparatus. 3,050,719, 8–21–62, Cl. 340—206.
Ambrosini, Leonard R., to Lear, Inc. Fluid actuating device. 3,045,650, 7–24–62, Cl. 121—38.
Ambrosio, Biagio F., and D. Rutland, to The Electrada Corp. Transducer for transmission systems. 3,016,423, 1–9–62, Cl. 178—79.
Ambroz, Charles F., to Allis-Chalmers Mfg. Co. Device for aligning operating linkage of hydraulic turbine wicket gate. 3,018,545, 1–30–62, Cl. 29—256.
Ambroz, Charles F., to Allis-Chalmers Mfg. Co. Jet deflecting means for hydraulic turbines of the impulse type. 3,041,039, 6–26–62, Cl. 253—24.
Ambrozaitis, John J., to Consolidated Electronics Industries Corp. High-speed reset counter. 3,070,300, 12–25–62, Cl. 235—164.
Amcel Propulsion Inc.: *See*—
Breen, Sanley, and Baldwin. 3,024,708.
Amchem Products, Inc.: *See*—
Douty, Alfred. 3,019,799.
Douty, Alfred. 3,062,963.
Hyams, Montagu. 3,015,588.
Newhard, Nelson J., Jr., and Dollman. 3,061,484.
Schiffman, Louis. 3,063,877.
Amco Aluminum Corp.: *See*—
Hewit, Leroy H. 3,057,023.
Amco Engineering Co.: *See*—
Anderson, Edwin V., Mack, and Friberg. 3,034,844.
Amcodyne Corp., The: *See*—
Ross, David S. and G. W. 3,059,243.
Amdahl, Gene M., and W. E. Frady, to Thompson Ramo Wooldridge Inc. Converting devices. 3,049,701, 8–14–62, Cl. 340—347.
Amdahl, Lowell D., R. C. Douthitt, H. L. Engel, and J. D. Hogan, to Thompson Ramo Wooldridge Inc. Arithmetic unit for digital control systems. 3,070,304, 12–25–62, Cl. 235—157.
Ament, Myron J., to The Murray Corp. of America. Lavatory assembly. 3,060,454, 10–30–62, Cl. 4—170.
Amerace Corp.: *See*—
Fleming, Robert S. 3,032,808.
American Agricultural Chemical Co., The: *See*—
Brautigam, Rudolf G. 3,033,653.
Brautigam, Rudolf G., and Buchner. 3,059,992.
Corben, Leo D., and Hatch. 3,018,181.
Evans, Robert D., and Breathitt. 3,032,194.
Felch, Elroy L. 3,068,070.
American Air Filter Co., Inc.: *See*—
Allender, Richard E. 3,050,958.
Amundson, Paul J. 3,017,112.
Czerwonka, Lawrence J., and Logsdon. 3,019,127.
Czerwonka, Lawrence J., and Rivers. 3,018,846.
Currier, Everett W. 3,031,360.
Getzin, Allan R. 3,016,602.
Getzin, Allan R. 3,016,984.
Getzin, Allan R. 3,063,544.
Getzin, Allan R., and Palmore. 3,041,807.
Gonzales, Don J. 3,016,980.
Gonzalez, Don J. 3,018,844
Gonzales, Don J. 3,055,159.
Greene, Earnest J., and Millman. 3,063,682.
Hagendoorn, Willem J. 3,055,277.
Hagendoorn, Willem J. 3,063,222.
Harms, John D. 3,022,861.
Hicks, Robert G. 3,017,877.
Hicks, Robert G. 3,051,161.
Hicks, Robert G. 3,051,259.
Hyatt, Philip L. 3,020,976.
Jackson, Robert L., Jr. 3,036,946.
Kirk, Harold L. 3,056,398.
Lathrop, Harold F. 3,018,642.
Millman, William V. 3,025,122.
Ortgies, Raymond C., and Palmore. 3,063,221.
Rivers, Richard D. 3,017,953.
Robson, Aubrey H. 3,025,001.
Robson, Aubrey H. 3,025,407.
Robson, Aubrey H. 3,026,687.
Robson, Aubrey H. 3,051,227.
Robson, Aubrey H. 3,056,554.
Sexton, Robert W. 3,022,859.
Smith, Herbert G. 3,016,950.
Smith, Tom R. 3,053,030.
Smith, Tom R. 2,055,158.
Westlin, Karl L. 3,017,952.
American Bag & Paper Corp.: *See*—
Kardon, Emanuel S., and Volksdorf. 3,017,069.
American Baler Co., The: *See*—
Englund, Lawrence P. 3,024,719.
American Biltrite Rubber Co., Inc.: *See*—
Elliott Robert H. 3,041,661
Knowland, Thomas M., and Braunels. 3,032,811.
Ross, Arthur I. 3,065,627.
Smith, Merrill M., Holmstrom, and Marcus. 3,049,459.
Smith, Merrill M., and Knowland. 3,039,137.
White, Thomas F., and Swanson. 3,036,944.
Wisotzky, Reuben. 3,048,510.
American Bleached Shellac Manufacturers Association, Inc.: *See*—
Johnston, Herbert N., and Lindner. 3,067,044.
American Bosch Arma Corp.: *See*—
Abt, Clifford F., and Miner. 3,019,969.
Berinson, Neil, and Finkel. 3,048,786.
Bock, Charles D. 3,048,752.
Cataldo, Ottavio C. 3,048,828.
Chow, Wen T., and Henrich. 3,028,659.
Cunningham, Frederick W., Miner, and Evans. 3,048,769.
Ensign, Roy F. and R. K. 3,068,085.
Ensign, Roy K., and Jensen. 3,068,086.
Hogeman, Hans. 3,024,779.
Hogeman, Hans, and Huse. 3,050,964.
Howe, Edwin W. 3,048,053.
Jacks, Basil. 3,063,037.
Jorgensen, Paul S. 3,047,962.
Miner, Richard Y., Davenport, and Kreitner. 3,049,808.
Noddin, Ray C. 3,029,350.
Norris, Myron E. 3,018,420.
Rosenberg, Merton L. 3,034,018.
Rumrill, Howard J., Howe, Harnett, and Browe. 3,038,686.
Sporn, Stanley R., and Mayer. 3,038,451.
Statsinger, Joseph. 3,023,617.
Taylor, Marvin. 3,033,045.
Tellerman, Jacob, and Zaretsky. 3,048,713.
American Brake Shoe Co.: *See*—
Adams, Cecil E., and Creek. 3,044,485.
Atchley, Raymond D. 3,017,864.
Babcock, Scott R., and Peterson. 3,042,786.
Boron, Frank J. 3,064,962.
Creedle, Fred W. 3,040,677.
Dalrymple, William P. 3,045,411.
Davin, Joseph M., and Hug. 3,043,149.
Huntress, Howard B. 3,066,765.
Huntress, Howard B., and Taylor. 3,053,349.
Huntress, Howard B., and Taylor. 3,056,262.
Huntress, Howard B., and Taylor. 3,056,264.
Mecum, William D., Smith, and Spokes. 3,061,579.
Morton, Avery A., Littlefield, and Mecum. 3,047,543.
Neff, Darby E., and Dykes. 3,049,890.
Neff, Darby E., and Dykes. 3,049,940.
Stephenson, Ferrald D. 3,019,537.
Vickers, Stanley J. 3,069,535.
Whisler, Thomas C., Sr. 3,028,696.
American Cable & Radio Corp.: *See*—
Buff, Christopher. 3,048,657.
American Can Co.: *See*—
Adams, James W., and Bernardin. 3,028,296.
Allen, Kenneth P. Re. 25,302.
Allen, Kenneth P. 3,028,798.
Anderson, Quentin A. 3,056,515.
Andrews, David B., and Meyers. 3,037,684.
Asman, Norman J. 3,036,729.
Asman, Norman J. 3,038,650.
Asman, Norman J., and Huss. 3,019,958.
Austing, August T., and Bofinger. 3,062,263.
Becker, Joseph C. 3,015,198.
Behrens, Herbert C., and Furnauer. 3,065,878.
Bell, Carl L., and Reps. 3,047,095.
Blair, Earl R., and Hardy. 3,025,184.
Blakeslee, Harry N., and Weed. 3,044,441.
Brennan, Thomas F. 3,051,580.
Brookson, William C. 3,053,409.
Burns, John R. 3,047,141.
Butler, John P. 3,025,167.
Carew, Herman, and Kinney. 3,061,987.
Chandler, Grover C. 3,040,964.
Christa, Leonard L. 3,034,783.
Croasdale, William H. 3,027,697.
Currie, Frank S., and Gueffroy. 3,025,814.
De Long, Robert F. 3,029,149.
Dewey, Bradley. 3,017,339.
Dobson, Frank E., and Manvell. 3,015,155.
Dussart, Frederick L. 3,049,347.
Ecklund, Oscar F., and Fischer. 3,066,063.
Eckman, George E. 3,060,652.
Elam, William B. 3,051,357.
Elam, William B. 3,070,274.
Esson, Roger L., and McDonell. 3,037,869.
Foord, Delbert C. 3,018,024.
Fredette, Joseph H., Taylor, and White. 3,049,224.
Griese, Robert W. 3,029,711.
Gotsch, Lenard P. 3,068,119.
Haack, Neil F. 3,061,167.
Harper, David H. 3,035,007.
Hart, Arthur L. 3,063,603.
Hill, Howard C. 3,067,922.
Hoffman, Henry T., Jr. 3,022,923.
Hovland, Howard N., and Wichman. 3,048,320.
Huss, William S., and Asman. 3,027,062.
Johns, Don H. 3,019,336.
Kennedy, Manley B., and Alexander. 3,021,993.
Knowles, Edward R. 3,027,596.
Kuchenbecker, Morris W. 3,022,930.
Kuchenbecker, Morris W. 3,024,959.
Kuchenbecker, Morris W. 3,024,960.
Kuchenbecker, Morris W. 3,039,668.
Kuchenbecker, Morris W. 3,039,672.
Kuchenbecker, Morris W. 3,040,950.

American Can Co.: *See*—Continued
Kuchenbecker, Morris W. 3,040,951.
Kuchenbecker, Morris W. 3,047,201.
Kuchenbecker, Morris W. 3,063,593.
Kuchenbecker, Morris W., and Asman. 3,037,681.
Leidheiser, Henry, Jr. 3,063,819.
Makowski, Alexander G. 3,020,594.
Makowski, Alexander G. 3,058,150.
Makowski, Alexander G., and Hartford. 3,044,894.
Matejek, John M. 3,018,886.
Matejek, John M. 3,065,887.
McLain, Clement J. 3,015,568.
Meyers, George L. 3,003,101.
Meyers, George L. 3,040,957.
Meyers, George L. 3,040,961.
Meyers, George L. 3,040,965.
Morisette, Douglas H. 3,037,653.
Pillnik, Walter F. 3,055,539.
Pottle, Ralph K. 3,042,286.
Pottle, Ralph K. 3,044,423.
Pottle, Ralph K., and Elam. 3,021,047.
Pottle, Ralph K., and Elam. 3,021,048.
Quinche, Albert, and Lecluyse. 3,052,926.
Roehrbein, Philip A. 3,061,071.
Russell, Arthur G., and Clary. 3,033,416.
Schoeffel, Eugene W. 3,049,566.
Schroeder, George O. 3,058,868.
Shappell, Richard L. 3,049,277.
Skowronski, George V. 3,019,959.
Skowronski, George V. 3,040,956.
Taylor, Russell C. 3,030,668.
Taylor, William E. 3,029,569.
Taylor, William E. 3,032,234.
Wichman, Merle A. 3,061,091.
Wolbert, Harris J. 3,017,512.
Wuorio, Raymond E. 3,050,826.
American Casting and Mfg. Corp.: *See*—
Wenk, Henry L. C., Jr. 3,062,577.
American Cement Corp.: *See*—
Eichenlaub, Adelbert A. 3,030,222.
Harris, Philip H. 3,050,002.
American Chain & Cable Co., Inc.: *See*—
Bratz, Otto J. 3,015,969.
Bratz, Otto J., and Gilmore. 3,021,722.
Silberger, Marvin E. 3,025,938.
American Chemical Co.: *See*—
Taylor, Richard P. 3,062,812.
American Chicle Co.: *See*—
Scanlan, James J., and Harrisson. 3,044,939.
American Coleman Co.: *See*—
Yadon, Donald E. 3,063,512.
American Creosoting Corp.: *See*—
Mitman, Joseph C. 3,055,590.
American Crucible Products Co., The: *See*—
Kaatz, Herbert W. 3,021,788.
American Cyanamid Co.: *See*—
Aagaard, Fridtjof. 3,018,793.
Akers, William T., Clark, and Whitehill. 3,066,071.
Albondi, Frank B., Hagan, and Easterbrooks. 3,023,143.
Allen, George R., Marx, and Weiss. 3,021,347.
Anderson, Richard A., and Smolin. 3,025,319.
Andreatch, Anthony J., and Innes. 3,027,241.
Andrews, Arthur. 3,030,435.
Arishima, Masao, and Sekizawa. 3,019,173.
Arlt, Herbert G., Jr. 3,046,186.
Arlt, Herbert G., Jr. 3,050,457.
Baker, Arthur W. 3,047,441.
Bann, Robert F., and Fiess. 3,070,418.
Barber, William A. 3,026,671.
Barber, William A., and Sloan. 3,031,413.
Beachem, Michael T., and Shaw. 3,040,088.
Berets, Donald J., Hermann, and Van Brocklin. 3,038,-911.
Bernstein, Seymour, Cantrall, and Littell. 3,031,469.
Bernstein, Seymour, Cantrall, and Littell. 3,031,470.
Bernstein, Seymour, Cantrall, and Littell. 3,031,471.
Bernstein, Seymour, Cantrall, and Littell. 3,031,472.
Bikales, Norbert M. 3,018,156.
Bikales, Norbert M., and Fugate. 3,067,141.
Bikales, Norbert M., and Stephens. 3,029,232.
Blodinger, Jack. 3,069,358.
Blodinger, Jack. 3,069,359.
Blose, James D. 3,037,876.
Booth, Robert B. 3,069,293.
Bott, George S., and Konazewski. 3,066,452.
Bott, George S., and Konazewski. 3,066,673.
Boyle, Richard J., Birsten, and Mosby. 3,047,575.
Boyle, Richard J., and Milionis. 3,042,669.
Boyle, Richard J., and Milionis. 3,055,896.
Buckler, Sheldon A., and Epstein. 3,052,719.
Buckler, Sheldon A., and Wystrach. 3,060,127.
Buell, Bennett G. 3,062,814.
Buell, Bennett G., and Long. 3,049,438.
Buell, Bennett G., and Long. 3,058,989.
Bullock, Milon W., Hand, and Hall. 3,041,340.
Burkhard, Herbert, and Dorion. 3,032,516.
Cabasso, Victor J. 3,057,783.
Cadwell, Edward P. 3,034,755.
Cannon, Donald S. 3,026,245.
Cantrall, Edward W., and Bernstein. 3,019,219.
Cantrall, Edward W., Gordon, and Bernstein. 3,060,204.
Carlin, Joseph. 3,053,819.
American Cyanamid Co.: *See*—Continued
Carpenter, Joseph E., and Kolodny. 3,035,070.
Clark, Joe H., Goldman, Starker, and Paul. 3,047,576.
Clark, Walter L., II. 3,066,033.
Cohen, Elliott, Klarberg. 3,065,235.
Coleman, Ralph A. 3,049,443.
Coleman, Ralph A., Arthen, Milionis, and Forster. 3,041,-330.
Coleman, Ralph A., Arthen, Milionis, and Forster. 3,057,921.
Coleman, Ralph A., and Rodgers. 3,042,624.
Conger, Joseph C., Sr. 3,049,395.
Conn, Robert C., and Campbell. 3,040,045.
Cooke, Theodore F., and Roth. 3,035,942.
Corley, Joseph A. 3,033,626.
Cosway, Harry F., and De Lapp. 3,027,236.
Crayson, Martin, and Keough. 3,067,258.
Cresswell, Arthur, Kocay, and Updegraff. 3,023,134.
Daniel, John H., Jr. 3,022,214.
Deichert, William G., and Pellon. 3,043,810.
Dorion, George H., and Burkhard. 3,061,595.
Dusza, John P., and Bernstein. 3,060,208.
Dusza, John P., and Bernstein. 3,069,419.
Ellenbogen, Leon, and Hawkins. 3,020,204.
Ellenbogen, Leon, and Williams. 3,015,608.
Epstein, Martin, and Buckler. 3,026,327.
Epstein, Martin, and Buckler. 3,050,531.
Evans, Robert D. 3,035,031.
Fair, William S. and Ballou. 3,043,706.
Fedrick, James L., Redin, and Shepherd. 3,048,519.
Feldman, Louis I., Nielsen, and Mowat. 3,037,914.
Feldman, Louis I., Pruess, and Rigler. 3,039,937.
Feldman, Louis I., Rigler, Holmlund, and Nielsen. 3,063,991.
Feldman, Louis I., Rigler, Shay, and Nielsen. 3,037,912.
Feldman, Louis I., Shay, and Rigler. 3,037,913.
Feldman, Louis I., Rigler, Shay, and Nielsen. 3,060,101.
Fitchett, Gilmer T., Gordon, and Shepherd. 3,051,702.
Fox, Sidney, Bilichtz, and Origoni. 3,021,346.
Frank, Simon, and Feldman. 3,026,353.
Friedlander, Henry Z. 3,031,721.
Garber, Murray, Herrlinger, Albrecht, and Ciesielski. 3,038,945.
Gerhardi, Gerard E. 3,015,440.
Gerko, Joseph I. 3,026,277.
Giddings, Sydney A. 3,030,394.
Giddings, Sydney A. 3,030,395.
Gilbert, Richard L., Jr. 3,052,517.
Goodemoot, Kenneth, and Turner. 3,055,886.
Goodman, Joseph J. 3,037,916.
Goodman, Joseph J., and Matrishin. 3,019,172.
Greif, Martin, Hansen, and Yen. 3,046,605.
Groszos, Stephen J. 3,029,210.
Groszos, Stephen J. 3,029,211.
Groszos, Stephen J., and Scanley. 3,021,206.
Hagan, James J., Ablondi, and Clarke. 3,066,079.
Hansen, Lloyd F. 3,066,838.
Hansen, Lloyd F., and Sarvis. 3,038,282.
Hardy, Elizabeth M. 3,017,321.
Hardy, Robert A., Jr., Howell, and Quinones. 3,029,189.
Hardy, Robert A., Jr., Howell, and Quinones. 3,037,990.
Hardy, Robert A., Jr., Howell, and Quinones. 3,047,461.
Hardy, William B., and Chao. 3,038,932.
Hardy, William B., Forster, and Hosler. 3,049,509.
Hardy, William B., Forster, and Hein. 3,049,561.
Hardy, William B., and Herd. 3,027,375.
Hardy, William B., and Herd. 3,027,376.
Hardy, William B., and Herd. 3,030,369.
Hardy, William B., and Von. 3,027,369.
Hardy, William B., Von, and Tomcufcik. 3,027,377.
Healey, Amos C. 3,046,773.
Hedley, Norman. 3,033,675.
Henderson, William A., Jr. 3,029,289.
Henderson, William A., Jr., Buckler, and Epstein. 3,032,591.
Hensley, William L. 3,065,109.
Hess, Irwin H. 3,041,318.
Hess, Irwin H., and Kurtz. 3,046,259.
Hines, Leonard R. 3,023,109.
Hlavka, Joseph J., and Boothe. 3,036,129.
Hodes, William, and Meriwether. 3,054,775.
Hofferberg, David S., Haldeman, and Hardy. 3,042,724.
Hoffenberg, David S., and Longfield. 3,025,330.
Hoffmann, Arthur K., and Tesch. 3,032,589.
Holland, William D. 3,036,031.
Holmlund, Chester E., and Andres. 3,043,877.
Holmlund, Chester E., Feldman, Kissman, and Weiss. 3,047,569.
Innes, William B. 3,025,132.
Innes, William B., Michael, and Chomitz. 3,023,172.
Jen, Yun, and House. 3,015,605.
Joseph, Joseph P., Dusza, and Bernstein. 3,069,440.
Joyce, Asa W. 3,019,217.
Joyce, Asa W., and Leavitt. 3,055,895.
Kaizerman, Samuel, and Mino. 3,030,319.
Kaplan, Earl. 3,018,254.
Kesler, Martin L., Risberg, and Dziomba. 3,056,642.
Kinstler, Robert C., and Rodgers. 3,055,909.
Kirkpatrick, Maurice C. 3,068,753.
Kissman, Henry M., Hoffman, and Weiss. 3,035,051.
Kissman, Henry M., Hoffman, and Weiss. 3,047,568.

American Cyanamid Co.: *See*—Continued
Klein, Arthur F. 3,047,353.
Klothen, Irving. 3,019,109.
Kocay, Witold R., and Black. 3,052,512.
Kocay, Witold R., and Brady. 3,048,539.
Kocay, Witold R., and Wishman. 3,028,372.
Kocay, Witold R., and Wishman. 3,040,007.
Kohler, August R., Miller, and Windlan. 3,050,401.
Kropa, Edward L., and Nyquist. 3,016,281.
Lagsdin, Julius B. 3,038,584.
Latella, Dominick M., and Updegraff. 3,067,077.
Layman, Ralph E., Jr. 3,025,251.
Leeson, Lewis J., Lowery, and Krieger. 3,054,810.
Leins, Richard W., and Osban. 3,037,369.
Leto, Joseph R. 3,051,693.
Lewis, Charles E. 3,042,648.
Lewis, Charles E., Paul, Tsang, and Leavitt. 3,051,697.
Lindenfelser, Richard, Layman, and Kilthau. 3,021,239.
Linkenheimer, Wayne H., Patterson, and Brockman. 3,070,506.
Littell, Ruddy, and Bernstein. 3,032,566.
Long, Robert S., and Tsang. 3,036,121.
Lundberg, Lennart A. 3,018,266.
Lundberg, Lennart A. 3,044,913.
Lundberg, Lennart A., and Wilson. 3,019,156.
Loper, Ben H., and Seichter. 3,069,246.
Magrane, John K., and Layman. 3,020,255.
Malley, Thomas J., and Schlindler. 3,032,514.
Mallison, William C. 3,036,030.
Mallison, William C. 3,039,980.
Marx, Michael, and Smith. 3,020,275.
Matsuda, Ken. 3,049,499.
Matsuda, Ken, and Christopher. 3,040,110.
McConnell, Jack B., Zangenberg, and Cooper. 3,034,507.
McCormick, Jerry R. D., and Jensen. 3,019,260.
McCormick, Jerry R. D., Sjolander, Hirsch, and Reichenthal. 3,038,005.
McCormick, Jerry R. D., Sjolander, Hirsch, and Reichenthal. 3,069,326.
McGrath, Thomas F., 3,046,309.
McLean, Daniel C. 3,017,241.
Meriwether, Lewis S., and Colthup. 3,066,119.
Meriwether, Lewis S., and Fiene. 3,032,573.
Meriwether, Lewis S., and Fiene. 3,051,694.
Michael, Malden W., and Innes. 3,032,512.
Millionis, Jerry P., and Arthen. 3,049,503.
Milks, John E. 3,047,623.
Milks, John E., Wystrach, and Siegele. 3,032,500.
Miller, Bernard. 3,019,159.
Miller, Bernard. 3,021,352.
Miller, Mary. 3,021,269.
Miller, Philip A., and McCormick. 3,023,148.
Miller, Philip A., and McCormick. 3,053,740.
Moore, Sewell T., and Lewis. 3,033,743.
Moran, William J. 3,036,095.
Morin, Lucille T., and Matsuda. 3,021,328.
Morin, Lucille T., and Matsuda. 3,021,336.
Morin, Lucille T., and Matsuda. 3,021,337.
Morin, Lucille T., and Matsuda. 3,033,893.
Morin, Lucille T., and Matsuda. 3,038,928.
Morrison, Glenn C., and Fugate. 3,069,458.
Muller, Siegfried A. 3,053,893.
Myers, Myron L., and Whately. 3,015,573.
Naylor, Ralph A. 3,070,571.
Nelson, Earl W. 3,022,157.
Nelson, Earl W., Bondurant, and Marcot. 3,062,621.
Nelson, Earl W., and Crossley. 3,050,365.
Nelson, Earl W., and Trees. 3,067,005.
Newman, Richard L. 3,019,121.
Orcutt, Donald E. 3,038,475.
Origoni, Victor E., and Mann. 3,060,175.
Origoni, Victor E., Rigler, and Goodman. 3,047,468.
Origoni, Victor E., and Winterbottom. 3,023,239.
Orsi, Ernest V. 3,065,669.
Osterberg, Arnold C., and Rauh. 3,053,731.
Petropoulos, John C. 3,014,400.
Petropoulos, John C. 3,021,362.
Petropoulos, John C., and Lederle. 3,021,363.
Pfeiffer, Frederick L. 3,051,721.
Polansky, Raymond, and Anghinetti. 3,052,570.
Prater, Harlan, Jr. 3,026,872.
Prater, Harlan, Jr. 3,028,862.
Pruess, Louis M., Pidacks, and Rigler. 3,047,470.
Rabinowitz, Robert. 3,064,053.
Rakowitz, David H. 3,021,298.
Rakowitz, David H. 3,056,757.
Rassweiler, John H., and Sexsmith. 3,060 156.
Rassweiler, John H., and Sexsmith. 3,068,213.
Rassweiler, John H., and Sexsmith. 3,068,214.
Rauhut, Michael M., and Semsel. 3,060,241.
Reynolds, Walter F., Jr., and Woodberry. 3,019,157.
Ritson, Daniel D. 3,015,578.
Ritson, Daniel D., and Snow. 3,050,486.
Roth, Philip B. 3,032,442 .
Roth, Philip B. 3,063,869.
Roth, Roy W. 3,016,333.
Roth, Roy W. 3,061,591.
Rynkiewicz, Henry J., and Ayres. 3,043,067.
Salsbury, Jason M., Kaizerman, and Mino. 3,046,078.
Sandhage, Ellsworth R., and Marlow. 3,025,652.
Saunders, Kenneth W., and Lento. 3,064,050.
Savina, Anthony R., and Ritson. 3,061,568.

American Cyanamid Co.: *See*—Continued
Sawyer, George C. 3,066,877.
Saxon, Robert. 3,054,782.
Saxon, Robert, and Suen. 3,021,295.
Scanley, Clyde S. 3,021,279.
Schaefer, Frederic C., and Ross. 3,062,818.
Schaub, Robert E., and Weiss. 3,022,323.
Schaus, Orland O. 3,039,848.
Schlayer, Earle G., Gegner, Ballwig, and Sheridan. 3,053,586.
Schiller, Arthur M., and Oliver. 3,066,116.
Schindler, Harvey D., Cullo, and Witheford. 3,031,420.
Schlegel, John C., Jr. 3,017,381.
Schlegel, John C., Jr. 3,060,147.
Schlegel, John C., Jr., and Dugliss. 3,026,283.
Schoen, Geza E., Jr., and Leavitt. 3,019,221.
Schoen, Geza, and Marascia. 3,030,383.
Schuller, Walter H., and Price. 3,032,539.
Segro, Nicholas R. 3,032,518.
Segro, Nicholas R., and Hodes. 3,044,972.
Segro, Nicholas R., and Jen. 3,044,973.
Sellers, William N. 3,049,509.
Semb, Joseph, Vaughan, and Davis. 3,037,988.
Sexsmith, David R. 3,050,506.
Shay, Anthony J., Lowery, Bohonos, and Backus. 3,057,779.
Sheers, Edward H. 3,019,223.
Sieger, George M., Barringer, and Remmers. 3,068,264.
Sieger, George M., Jr., and Weidenheimer. 3,053,892.
Sifford, Luther L. 3,049,413.
Singerman, Sol. 3,017,990.
Sloan, Carol L., and Barber. 3,046,288.
Smith, Leland L., Foell, and Mendelsohn. 3,050,558.
Smith, Leland L., Mendelsohn, and Goodman. 3,063,989.
Smolin, Edwin M., and Anderson. 3,025,322.
Song, John. 3,033,901.
Song, John, Horton, MacGregor, and Markley. 3,023,243.
Song, John, and Markley. 3,060,194.
Sonnino, Mario. 3,027,740.
Sonnino, Mario. 3,028,626.
Sonnino, Mario. 3,041,705.
Sonnino, Mario. 3,066,006.
Spencer, Frank R. 3,019,257.
Spencer, Frank R. 3,033,806.
Spitzer, Penn F., Jr., and Aagaard. 3,049,533.
Stafiej, Stanley F., and Groszos. 3,032,525.
Stauffenberg, Walter H. 3,021,257.
Stearns, Carl L., and Ritter. 3,069,319.
Suen, Tzeng J. 3,065,041.
Suen, Tzeng J., and Schiller. 3,021,301.
Suen, Tzeng J., and Segro. 3,053,787.
Szumski, Stephen A. 3,046,200.
Taylor, Arthur S. 3,036,341.
Taylor, Arthur S., and Levy. 3,058,177.
Terenzi, Joseph F. 3,042,970.
Thomas, Walter M., and Hoffmann. 3,025,274.
Tomcufcik, Andrew S., and Hardy. 3,027,373.
Trachtenburg, Harold, and Ritson. 3,057,811.
Updegraff, Ivor H., and Osterberg. 3,061,571.
Upham, Sidney D., and Klothen. 3,023,105.
Valentine, William, and Vance. 3,055,804.
Vartanian, Richard D., and Fortenbaugh. 3,052,599.
Vartanian, Richard D., and Fortenbaugh. 3,052,600.
Vartanian, Richard D., and Munro. 3,061,554.
Vitalis, Emil A. 3,069,321.
Von, Isaiah, Tomcufcik, and Hardy. 3,027,374.
Von, Isaiah, Tomcufcik, and Hardy. 3,030,368.
Wasserman, Max. 3,017,721.
Wasserman, Max. 3,034,260.
Wasserman, Max. 3,034,966.
Wasserman, Max. 3,047,983.
Weidenheimer, Joseph F., and Leeson. 3,027,366.
Weiss, Martin J., Poletto, and Kissman. 3,069,417.
Wellman, Victor E., and Bikales. 3,026,168.
Wellman, Victor E., and Bikales. 3,046,775.
White, Malcolm L., and Wehner. 3,046,201.
Whitesides, Clyde N. 3,058,847.
Wilkinson, Raymond G., and Fields. 3,068,266.
Wilkinson, Raymond G., and Fields. 3,068,296.
Wishman, Marvin, and Kocay. 3,028,371.
Wright, William B., Jr., and Brabander. 3,016,382.
Wright, William B., Jr., and Brabander. 3,037,047.
Wright, William B., Jr., and Brabander. 3 049.562.
Wright, William B., Jr., and Brabander. 3,061,641.

American Cystoscope Makers, Inc.: *See*—
Wallace, Frederick J. 3,045,677.

American Decalcomania Co., Inc.: *See*—
Francescon, Daniel L. 3,069,793.
Winn, Robert G. 3,025,211.

American District Telegraph Co.: *See*—
Hube, Arthur B. 3,025,505.
McDonough, Vincent T. 3,025,506.
Swift, James L., and Evans. 3,042,079.

American Doll & Toy Corp.: *See*—
Beebe, Herbert R. 3,015,828.
Beebe, Herbert R. 3,043,051.
Beebe, Herbert R. 3,052,061.

American Drill Bushing Co.: *See*—
Armacost, Robert H. 3,015,242.
Armacost, Robert H. 3,022,685.
Mele, Joseph J. 3,048,061.

American Duralite, Inc.: *See*—
Smith, Elmus H., and Hoyle. 3,067,845.
American Electrical Heater Co.: *See*—
Wasserlein, Henry G. 3,032,637.
American Electronics, Inc.: *See*—
Hohmann, Albert. 3,058,537.
American Electronic Laboratories: *See*—
Goodman, Robert M., and Busser. 3,066,570.
American Enka Corp.: *See*—
Beyer, Jeno, and Gonsalves. 3,017,738.
Buurman, Aart, Limburg, and Vroom. 3,033,696.
Corbin, Thomas F., Jr. 3,057,830.
Daimler, Berthold H., Elling, and Elssner. 3,038,778.
De Booys, Jacob, and Timmers. 3,032,821.
Eskridge, Brewster B. 3,026,169.
Eskridge, Brewster B. 3,033,697.
Gonsalves, Victor E. 3,025,660.
Gonsalves, Victor E. 3,061,530.
Hammink, Lucas. 3,067,481.
Heijnis, James W. I. 3,041,048.
Heijnis, James W. I. 3,044,628.
Hennemann, Georg, and Lutgerhorst. 3,018,192.
Kessler, Jacob C. F. 3,035,003.
McPeters, Arnold L. 3,026,170.
Neal, Richard J., and Cromwell. 3,065,518.
Nobel, Leendert. 3,051,452.
Noordenbos, Pieter K. 3,025,657.
Rice, Charles M. 3,060,890.
Rice, Charles M., and Sullivan. 3,026,055.
Schoenfeldt, Nikolaus A., and Grunewald. 3,026,171.
Seidl, Lois. 3,026,063.
Sluijters, Robert. 3,051,453.
Smith, Robert D. 3,060,550.
Tiemersma, Heine G. N. 3,044,993.
Van Dijk, Pieter. 3,020,700.
Van Dreven, Hermanus, and De Boer. 3,067,566.
Van Kijk, Pieter. 3,067,503.
American Fabrics Co., Inc., The: *See*—
Noble, Percy W. 3,025,583.
American Felt Co.: *See*—
Gillick, Thomas J., Jr., Hencken, and Wrotnowski. 3,050,193.
Gillick, Thomas J., Jr., Wrotnowski, and Hencken. 3,050,191.
Gillick, Thomas J., Jr., and Wrotnowski. 3,064,820.
American Filter Co., Inc.: *See*—
Hicks, Robert G. 3,051,161.
American Fixture, Inc.: *See*—
Larson, Milton H. 3,039,836.
American Flange & Mfg. Co. Inc.: *See*—
Andersson, KarlGustav. 3,062,418.
Malpas, Charles H. 3,063,604.
American Forest Products Corp.: *See*—
Mulcoy, Edward W. 3,015,431.
American Foundry & Furnace Co.: *See*—
Klingberg, William J. 3,049,985.
American Friends Service Committee: *See*—
Luebben, Ummo F. 3,064,556.
American Gas Association: *See*—
Reid, Jack M., and Michael. 3,055,209.
American Grease Stick Co.: *See*—
Holmgren, William C. 3,036,002.
American Greiner Electronic Inc.: *See*—
Du Pont, Robert O. 3,061,693.
American Hardware Corp., The: *See*—
Baker, Arthur R. 3,026,704.
Welch, Nicholas A. 3,026,703.
Welch, Nicholas A. 3,029,096.
Welch, Nicholas A. 3,047,323.
American Hoist & Derrick Co.: *See*—
Potter, Kenneth F., and Brown. 3,037,641.
American Home Products Corp.: *See*—
Albon, Harvey E., Grant, and Clark. 3,032,473.
Childress, Scott J., and Mascitti. 3,053,831.
Deghenghi, Romano. 3,041,358.
Gandier, John C. C. 3,036,553.
Gleason, Fred C., and George. 3,027,097.
Humber, Leslie G., and Kraml. 3,031,468.
Humber, Leslie G., and Kraml. 3,031,474.
Langis, Andre L. 3,037,986.
Langis, Andre L., and McConkey. 3,055,937.
Linke, Karl R., Peterson, and Ridley. 3,067,742.
Marshall, David J. 3,040,066.
Mennen, Frederick C. 3,054,680.
Russell, Peter B., and Childress. 3,048 633.
Shetty, Bola V., Bruce, and Freed. 3,062,839.
Sulkowski, Theodore S. 3,066,145.
Tint, Howard, and Brown. 3,035,980.
Tislow, Richard F., Bruce, and Page. 3,023,146.
Trace, James C., and Eddis. 3,067,096.
American Hospital Supply Corp.: *See*—
Johnson, Axel E. F. 3,031,085.
Roberts, Ross L. 3,022,416.
Whitton, Aldean W., Jr. 3,054,182.
American Incinerator Corp.: *See*—
Smauder, Ellis E. 3,031,981.
American Infra Red Radiant Co., Inc.: *See*—
Bello, Giovanni. 3,024,836.
American Instrument Co., Inc.: *See*—
Hampton, William C. 3,022,657.
Ohlheiser, Carlton E. 3,070,062.
Watson, Donald L., and Tyrrell. 3,055,206.
American Iron & Machine Works Co., Inc.: *See*—
Benz, Joseph T. 3,026,693.
Bonner, James W. 3,049,177.
Grandstaff, Perry. 3,066,614.
McCool, Marcus G. 3,067,593.
Mittenbergs, Alexander A., and Scharenberg. 3,047,960.
Von Rosenberg, Edgar L. 3,054,647.
American Lava Corp.: *See*—
Palmour, Hayne, III. 3,063,144.
American-Lincoln Corp.: *See*—
Bruck, John P. 3,042,463.
Bruck, John P. 3,044,223.
American Liquid Gas Corp.: *See*—
Smith, Harold W. 3,067,541.
American Locker Co., Inc.: *See*—
Stackhouse, Wells F. 3,023,875.
Stackhouse, Wells F. 3,037,605.
Stackhouse, Wells F. 3,050,169.
American Loose Leaf Corp.: *See*—
Adiletta, Joseph G. 3,053,762.
Bourne, Roland B., and Tyskewicz. 3,018,840.
Burkland, Glenn A., and Dellinger. 3,024,415.
Cameron, Hugh J. 3,041,435.
Dearsley, George. 3,036,581.
Dearsley, George. 3,067,644.
De Kanski, Leon M., Dinsmoor, Guinard, and Martinuzzi. 3,056,104.
Dellinger, Darel R. 3,068,406.
Dumas, Roger E. 3,068,065.
Ehrat, Alfred J., and Williams. 3,024,591.
Eissmann, Oswald E. 3,026,781.
Eissmann, Oswald E. 3,026,878.
Eissmann, Oswald E., and Davidson. 3,034,646.
Eissmann, Oswald E., and Krohne. 3,042,454.
Ernst, John M. 3,042,402.
Ernst, John M., Gruss, and Martin. 3,025,061.
Gamberini, Geoffredo. 3,041,803.
Gamberini, Geoffredo. 3,058,475.
Gaudet, Lawrence J., and Rose. 3,040,160.
Graulig, Oskar, and Jackson. 3,021,768.
Grogoza, William. 3,018,105.
Groppe, Ocee K. 3,061,645.
Gruss, George A. 3,017,184.
Gruss, George A. 3,068,004.
Holloway, Robert L. 3,030,124.
Holloway, Robert L. 3,048,397.
Holloway, Robert L. 3,053,600.
Holloway, Robert L. 3,068,006.
Holloway, Robert L., and McCarten. 3,033,633.
Holloway, Robert L., and Wall. 3,067,620.
Horgan, George D. 3,058,275.
Jackson, John, and Ossenkop. 3,029,572.
Johnson, James V., Jr., Groppe, Hibbits, and Phillips. 3,019,574.
Jones, Harold A., and Schmidt. 3,042,403.
Jones, Harold A., Schmidt, and Condon. 3,015,489.
Khrsam, George W., Jr., Rubinowitz, and Silver. 3,064,552.
Kohler, Fred. 3,037,105.
Longenecker, John G. 3,053,378.
Longenecker, John G., Arnold, and Reiss. 3,068,351.
Marasso, Fred D. 3,058,614.
Mayer, Lewis H. 3,051,804.
Miserocchi, Henry F. 3,068,166.
Moore, Thomas W. 3,054,041.
Morris, Jack. 3,046,382.
Morris, Jack. 3,047,712.
Morris, Jack, Zausner, and Beaumont. 3,056,882.
Pavlecka, Vladimir H. 3,040,971.
Pedersen, Mathias. 3,067,704.
Phillips, Malcolm E., Jr., and Curlee. 3,019,581.
Phillips, Malcolm E., Jr., and Pinkham. 3,063,411.
Pinkham, Jesse R. 3,030,043.
Pinkham, Jesse R. 3,034,514.
Pinkham, Jesse R., and Phillips. 3,067,754.
Riedi, Arnold T. 3,047,899.
Rosenberg, Sheldon, and Schmidt. 3,042,552.
Rudd, Wallace C. Re. 25,183.
Saunders, Charles E., Jr. 3,065,863.
Stanton, Robert J. 3,027,853.
Upton, Thomas F. 3,044,210.
Waite, Fred L. 3,030,244.
Wells, Willis L. 3,058,745.
Wilhelm, Frank R., and Jordan. 3,016,553.
Zito, Ralph. 3,022,076.
American Machine and Metals, Inc.: *See*—
Buss, Benjamin A. 3,023,597.
Hoover, Clinton E. 3,019,993.
American Machinery Corp.: *See*—
McLearn, Herbert M. 3,045,910.
Varney, Robert E. 3,042,186.
American Mfg. Co., Inc.: *See*—
Stanton, Robert L. 3,028,669.
Zachow, Henry E. 3,028,979.
American Mfg. Co. of Texas: *See*—
Gourley, William J. 3,057,213.
American-Marietta Co.: *See*—
Booty, Raymond G. 3 030,324.
Haigh, Henry W., and Morgan. 3,019,146.
Jamison, Robert C., Sr., and Muller. 3,024,722.
Lindbloom, Henry E. 3,015,143.
Lindbloom, Henry E. 3,050,810.
Palma, Joseph, Jr., and Knapp. 3,026,554.

American-Marietta Co., Stoner-Mudge Co. Division: *See*—
Laporta, Xavier V. 3,021,318.
Roeser, Gerald P., and Bach. 3,016,309.
American Marine Outdrive, Inc.: *See*—
Daniels, James W. 3,057,320.
American Meat Institute Foundation, Benefit of: *See*—
Landmann, Wendell A., and Batzer. 3,047,399.
American Messer Corp.: *See*—
Katzor, Karl. 3,021,598.
Knapp, Helmut. 3,037,359.
Neander, Erich. 3,069,550.
American Metal Climax, Inc.: *See*—
Booth, Archibald A. K., Jr., and Burgmeister. 3,063,828.
Handwerk, Erwin C. 3,045,995.
Hummers, William S., Jr. 3,052,739.
Larson, Melvin L. 3,042,694.
Larson, Melvin L. 3,046,287.
Saarivirta, Matti J. 3,017,268.
Saarivirta, Matti J. 3,019,102.
American Metalcare Systems, Inc.: *See*—
Day, Paul T., Jr. 3,051,277.
American Metal Products Co.: *See*—
Corp, Paul M. 3,022,804.
Flint, Hyland C., and Heyl. 3,055,653.
Hern, John. F., and Gierman. 3,063,750.
Heyl, Russell G., Jr., and McLean. 3,061,372.
Heyl, Russell G., Jr., and Williams. 3,036,827.
Homier, Robert. 3,055,627.
Hooven, Frederick J. 3,021,721.
Hughes, Albert L. 3,016,264.
Latimer, Thomas H., and Posh. 3,066,907.
Lyon, William B. 3,039,619.
Posh, Raymond C. 3,044,557.
Stanhope, Richard D., and Small. 3,055,788.
Thomas, Paul P. 3,017,209.
Thomas, Paul P. 3,039,831.
Thomas, Paul P. 3,058,765.
Thomas, Paul P. 3,059,951.
American Metaseal of Massachusetts, Inc.: *See*—
Palombo, Albert M. 3,049,444.
American Meter Co., Inc.: *See*—
Bassett, Robert S. 3,039,311.
Douglas, Robert R., and Blizard. 3,069,927.
Heller, David L. 3,054,095.
Rondeau, Herbert F. 3,028,750.
Rondeau, Herbert F., and Weaver. 3,069,670.
Wagner, Joseph S. 3,069,669.
American Missile Products Co., Inc.: *See*—
Sisk, Glenn A. 3,041,439.
American Molasses Co.: *See*—
Monti, Anthony, and Pike. 3,042,668.
American Monarch Corp.: *See*—
Nellis, William M. 3,033,998.
American MonoRail Co., The: *See*—
McEachern, Loyd R. 3,045,929.
Preston, David S. 3,040,916.
American Motors Corp.: *See*—
Castricone, John A. 3,043,435.
Doeg, Ralph W. 3,039,487.
Doeg, Ralph W. 3,049,285.
Doeg, Ralph W. 3,059,501.
Hatch, Arthur R. 3,019,468.
Hatch, Arthur R. 3,063,751.
Soer, Clifford G. 3,057,640.
American National Bank and Trust Co. of Chicago: *See*—
Breitenstein, Charles T. 3,034,790.
Breitenstein, Charles T. 3,035,617.
Simons, Raymond S. 3,035,489.
American Optical Co.: *See*—
Armbruster, John T. 3,016,793.
Armbruster, John T. 3,066,790.
Bazinet, Wilfred P., Jr., and Cole. 3,037,241.
Cole, Henry B. 3,033,731.
Crandon, Harry D. 3,016,794.
Crandon, Harry D. 3,051,054.
Devine, Bernard W. 3,061,736.
Dillon, Oscar W. 3,063,340.
Dunn, Joseph M. 3,045,179.
Dunn, Joseph M. 3,058,021.
French, Hobert W., Jr. 3,062,099.
French, Hobert W., Jr., Maier, and Brookhart. 3,019,708.
Hicks, John W., Jr. 3,033,071.
Hicks, John W., Jr. 3,043,910.
Hicks, John W., Jr. 3,060,789.
Hicks, John W., Jr., and Bazinet. 3,050,907.
Hicks, John W., Jr., and Polanyi. 3,068,739.
Hicks, John W., Jr., and Polanyi. 3,068,742.
Johnston, James E. 3,049,232.
Johnston, James E., and Lundstrom. 3,069,012.
Kaestner, Paul T. 3,063,343.
Koester, Charles J. 3,052,152.
Koester, Charles J. 3,060,808.
MacNeille, Stephen M. 3,068,772.
Morris, Robert S. 3,051,190.
Peck, William F. 3,068,745.
Polanyi, Michael L., Johnston, and Brown. 3,049,047.
Prunier, Louis J. 3,046,708.
Root, Andrew A. 3,051,035.
Root, Andrew A. 3,069,725.
Schenk, George F. 3,019,699.
American Optical Co.: *See*—Continued
Simpson, George R. 3,040,616.
Tillyer, Edgar D., and Folland. 3,022,858.
Wilkinson, Leonard A. 3,019,705.
Wilkinson, Leonard A. 3,041,034.
Ziemski, Joseph B. 3,062,364.
American Packaging Corp., The: *See*—
Watts, Ridley, Jr. 3,053,023.
American Pad & Textile Co., The: *See*—
Le Blanc, Joseph H., Jr. 3,050,754.
American Paper Products Co., The: *See*—
Sanford, Charles A. 3,019,012.
American Petrochemical Corp.: *See*—
Resnick, Willard B. 3,038,327.
American Photocopy Equipment Co.: *See*—
Elsner, Burton D., Swimmer, and Sugarman. 3,027,285.
Lace, Meivin A. 3,037,418.
Stuckens, Leo J. 3,017,179.
Stuckens, Leo J. 3,017,816.
Stuckens, Leo J. 3,025,778.
Stuckens, Leo J. 3,034,413.
Stuckens, Leo J. 3,060,790.
Sugarman, Meyer L., Jr., and Levine. 3,058,444.
Sugarman, Meyer L., Jr., and Steiner. 3,051,569.
American Pipe and Construction Co.: *See*—
Butler, Adolf G. 3,059,096.
Huck, George E. 3,052,266.
Huck, George E. 3,052,419.
McIlahon, Walter M. 3,047,045.
Ranker, William T. 3,017,855.
American Plasticraft Co.: *See*—
Backus, Arthur E. 3,056,250.
American Plastics Corp.: *See*—
Arpin, John W. 3,048,301.
American Playground Device Co.: *See*—
Williams, Ralph E., and Miller. 3,039,819.
American Potash & Chemical Corp.: *See*—
Burg, Anton B., and Wagner. 3,025,326.
Burg, Anton B., and Wagner. 3,065,271.
Clifford, Warren E. 3,047,357.
May, Frank H., and Levasheff. 3,018,163.
Stern, David R. 3,030,284.
American Radiator & Standard Corp.: *See*—
Bahrani, Aboul S. 3,053,277.
Cira, James W. 3,060,834.
Durdy, Arnold. 3,060,452.
Freismuth, John S. 3,070,311.
Hastings, Warren W. 3,069,910.
Karner, Bernard C., and La Valley. 3,061,527.
Marchi, Vito V. 3,064,094.
Meyer, Harry A., and Anderson. 3,058,650.
Nolan, John E. 3,065,948.
Saddock, George F. 3,068,702.
American Radiator & Standard Sanitary Corp.: *See*—
Anderson, Axel F. L. 3,045,432.
Anderson, Maynard E. 3,038,639.
Anderson, Maynard E., Farran, and Deery. 3,033,423.
Budde, James C. 3,036,777.
Cobb, John, Rice, Ross, and Sauer. 3,042,595.
Dillman, Earnest J. 3,036,778.
Edstrom, Andrew H. 3,034,323.
Gould, Jack K. 3,038,664.
Heller, Kenneth G., and Snyder. 3,017,588.
Honsinger, Philip G. 3,057,646.
Huff, Joseph F., and Roethlisberger. 3,040,279.
Huston, William D. 3,039,087.
Kogan, Henry W., and Noakes. 3,045,874.
Kovach, Julius W. 3,021,868.
Kovach, Julius W. 3,047,014.
Langlois, Henry J., Nelden, and Ragland. 3,023,581.
Leuthesser, Frederick W. Re. 25,155.
Marchi, Vito V. 3,045,876.
Martina, Eugene F. 3,020,431.
Matthews, Robert J. 3,017,468.
Nelsen, Richard M. 3,037,459.
Noakes, Thomas E. 3,021,108.
Patterson, George C. 3,019,856.
Ryan, Thomas J. 3,023,582.
Simmons, Lance L. 3,035,760.
Taylor, William R. 3,017,798.
Werker, Herwart. 3,041,569.
Wickersham, Price D., Rall, and Giedt. 3,028,494.
Young, Sherwood L. 3,032,777.
Young, Sherwood L. 3,046,570.
American Safety Table Co., Inc.: *See*—
Hunt, Harry C. 3,069,211.
American-Saint Gobain Corp.: *See*—
Glynn, Theodore W. 3,062,945.
American Seal-Kap Corp. of Delaware, The: *See*—
Goodwin, Carl W., and Campanelli. 3,054,144.
Le Beau, Richard A. 3,020,984.
Orshansky, Elias, Jr. 3,027,093.
Roland, John R. 3,059,289.
Soddy, Thomas C. 3,020,603.
Soddy, Thomas C. 3,027,976.
Soddy, Thomas C. 3,056,176.
Spaeth, Irvin J. 3,018,855.
Spaeth, Irvin J. 3,056,474.
Stewart, Frederick G. 3,023,856.
Tobin, Kenneth J. 3,059,290.
Uphues, Gerard T., Orshansky, and Soddy. 3,024,872.

American Seating Co.: *See*—
Black, Warren R., and Henriksen. 3,039,821.
Evans, George A., Machielse, Morgan, and Weaver. 3,025,106.
Hayden, Ray A., and Morgan. 3,015,521.
Morgan, Erving B. 3,025,100.
Rose, Fred G. 3,048,441.
American Screen Products Co.: *See*—
Majeske, Henry L. Re. 25,246.
American Ship Building Co., The: *See*—
Kestner, Matthew W. 3,039,805.
Takacs, John, Jr. 3,036,851.
American Sign & Indicator Corp.: *See*—
Caferro, Edward M., Howell, Justus, and Williams. 3,041,595.
Caferro, Edward M., and Justus. 3,041,596.
American Smelting and Refining Co.: *See*—
Baier, Richard. 3,066,364.
American Society for Technion, Israel Institute of Technology, Inc., The: *See*—
Zaks, Vladimir Z. 3,065,378.
American Steel Foundries: *See*—
Maloney, Bernard, Altherr, and Blew. 3,022,867.
Mann, William, and Maloney. 3,017,961.
Polanin, Walter R. 3,016,114.
American Stencil Mfg. Co.: *See*—
Aaron, Moe I. 3,025,834.
American Sterilizer Co.: *See*—
Gewecke, Theodore H. 3,054,401.
Gunther, Donald A. 3,064,323.
Huston, Alfred B. 3,054,270.
Jewell, Raymond L. 3,034,520.
Lodge, Alvin. 3,059,666.
Lodge, Alvin. 3,064,322.
American Sumatra Tobacco Corp.: *See*—
Hill, James J. 3,044,598.
Tempel, Eggo J., and Bruist. 3,070,098.
American Tag Co.: *See*—
Marshall, Edward C. 3,021,653.
Marshall, Edward C., and McBriar. 3,064,743.
Swett, Arthur H., Jr. 3,021,630.
American Tansul Co.: *See*—
Shaler, Richard G., and McAdam. 3,066,026.
American Technical Machinery Corp.: *See*—
Blackman, Seymour N., and Peltier. 3,069,810.
American Telephone and Telegraph Co.: *See*—
Banks, Harry R., and Nickerson. 3,057,965.
Bates, George W., and Clark. 3,054,949.
Barnett, Cecil H., Large, and Pruden. 3,021,397.
Barnett, Cecil H., Large, and Pruden. 3,021,398.
Clark, Orville A., Maxwell, and Thompson. 3,038,031.
Garrison, Richard J., Meiches, and Spiro. 3,020,525.
Miller, Wade M. 3,050,584.
Semancik, Joseph T., and Walker. 3,043,905.
Stenger, William J. 3,041,410.
Thorbrogger, Holger H. 3,019,388.
Yeoman, John A. 3,056,855.
American Thermocatalytic Corp.: *See*—
Weiss, Gerhart. 3,063,493.
American Thermos Products Co., The: *See*—
Clapp, John F., Jr. 3,053,274.
Fuller, George W. 3,015,403.
Grayson, Arthur H., and Darmstadt. 3,017,047.
Roberts, Deering S. 3,034,872.
American Thermostat Corp.: *See*—
Reingruber, Joseph. 3,045,085.
American Thread Co., The: *See*—
Curry, Malcolm. 3,019,943.
Westall, Thomas E. 3,030,749.
American Tobacco Co., The: *See*—
Kelly, James G. 3,043,420.
American Truck Body Co.: *See*—
Neher, Herbert J. 3,033,721.
Seidle, Ralph B. 3,054,362.
American Totalisator Co., Division of Universal Controls, Inc.: *See*—
Lange, Le Roy J. 3,027,512.
Lange, Le Roy J. 3,047,223.
Lange, Le Roy J. 3,051,384.
American Truck Washing and Detergent Co.: *See*—
Roller, Gaylord G., and Lewis. 3,024,795.
American Type Founders Co. Inc.: *See*—
Heller, Franz. 3,022,725.
Heller, Franz, and Steyer. 3,065,690.
Sausele, George J. H. 3,063,538.
American Typesetting Corp.: *See*—
Karasiewicz, Edward S. 3,019,450.
American Viscose Corp.: *See*—
Bates, Arthur L., and Anderer. 3,046,083.
Battista, Orlando A. 3,023,104.
Battista, Orlando A. 3,052,593.
Bauer, Ernest K. 3,039,141.
Breakell, James H., and Phillips. 3,045,358.
Belfort, Alan M. 3,056,697.
Carney, Rufus T., and Corr. 3,057,037.
Cornwell, Ralph T. K. 3,057,756.
Craver, Augustus E., and Lamason. 3,044,115.
Deis, Louis P. 3,056,163.
Derrickson, Michael O. 3,066,706.
Dooley, William P. 3,063,789.
Dooley, William P., and Coe. 3,023,764.
Evans, Robert D., and Yu. 3,046,256.
American Viscose Corp.: *See*—Continued
Evans, Robert D., and Yu. 3,046,257.
Evans, Robert D., and Yu. 3,053,813.
Fry, Horace P., Jr. 3,051,606.
Gallant, Le Roy. 3,030,660.
Goudie, Alexander J., and Liloia. 3,030,235.
Grantham, William G. 3,051,670.
Herald, Carl T., McGinley, and Battista. 3,067,037.
Houle, James A. 3,051,305.
Karass, Thomas J. 3,028,281.
Koch, Walter T. 3,034,929.
Koch, Walter T., Lytton, and Wielicki. 3,051,667.
Koppehele, Hugo P. 3,055,948.
Koppehele, Hugo P. 3,063,090.
Kunz, Walter B. 3,030,667.
Lytton, Marion R. 3,030,220.
Lytton, Marion R. 3,031,255.
Lytton, Marion R. 3,063,786.
Massengale, John T., and Bender. 3,042,655.
McMahon, Howard O., and Watson. 3,026,190.
Meissner, William E. 3,057,129.
Meissner, William E., Cundiff, and Barrall. 3,066,461.
Noel, Dwight P. 3,059,300.
O'Shaughnessy, Marion T. 3,049,397.
Price, John A. 3,042,664.
Ramaika, Lawrence T. 3,067,119.
Reichel, Frank H., and Russell. 3,056,164.
Ridgway, Robert J. 3,027,998.
Roberts, Ingham S. 3,030,630.
Roberts, Ingham S. 3,052,420.
Rosser, Charles M. 3,037,868.
Rudbarg, Frank. 3,021,587.
Schappel, Joseph W. 3,016,283.
Smith, Donald F. 3,052,584.
Thumm, Byron A. 3,031,256.
Thumm, Byron A. 3,031,257.
Thumm, Byron A. 3,049,398.
Truitt, Joseph A., and Hausel. 3,064,911.
Wade, Worth. 3,026,912.
Wade, Worth. 3,032,456.
Wade, Worth. 3,032,774.
Wade, Worth. 3,045,303.
Wade, Worth. 3,059,598.
Watt, William R. 3,061,601.
Whitney, Kenneth L. 3,052,198.
Wyckoff, Harold W., Neal, and Starr. 3,066,366.
American W.M.B., Inc.: *See*—
Meek, George W. 3,070,186.
American Waterlock Corp., The: *See*—
Wallace, William P. 3,024,484.
Wallace, William P. 3,041,644.
American Well Works: *See*—
Born, Robert E. 3,066,871.
American Window Glass Co.: *See*—
Insolio, Thomas A., Magrini, Carini, and Clements 3,018,587.
American Zinc, Lead and Smelting Co.: *See*—
Ambler, Charles W. 3,037,926.
Phillips, Kenneth A. 3,033,674.
Amerline Corp.: *See*—
Hultgren, Arnold P. 3,061,191.
Amerock Corp.: *See*—
Ahlgren, Axel W. 3,015,126.
Ahlgren, Axel W. 3,026,134.
Ahlgren, Axel W. 3,057,650.
Erickson Karl H. 3,059,971.
Ames, Irving, to International Business Machines Corp. Electro-optic light switch. 3,069,973, 12–25–62, Cl. 88—61.
Ames, Lloyd L., to United States of America, Atomic Energy Commission. Removal of cesium by sorption from aqueous solutions. 3,017,242, 1–16–62, Cl. 23—25.
Ames, Lloyd L., Jr.: *See*—
Rhodes, Donald W., McHenry, and Ames. 3,032,497.
Ames, O., Co.: *See*—
Eads, Harold O., and Robison. 3,021,176.
Ames, Robert G., to B. G. Corp. High titanium content brazing compositions. 3,034,205, 5–15–62, Cl. 29—194.
Ames, Stanley R., to Eastman Kodak Co. Preparation of stable aqueous isomeric vitamin A compositions. 3,026,-249, 3–20–62, Cl. 167—81.
Ames, Stuart L.: *See*—
Fentiman, William P., Ames, Morton, and Mead. 3,049,-425.
Ames, Victor H.: *See*—
Morey, Woodruff A., and Ames. 3,026,462.
Ametek, Inc.: *See*—
Anderson, Kenneth A., and De Paepe. 3,028,968.
Beer, Charles J. 3,046,931.
Buss, Benjamin A. 3,068,677.
Clarke, Philip C. 3,039,318.
Darde, Peter. 3,036,381.
Daugherty, Frank Z. 3,052,956.
Daugherty, Frank Z., and Sebok. 3,032,671.
Giesse, Robert C. 3,034,647.
Giesse, Robert C. 3,050,858.
Giesse, Robert C., Hull, and Harp. 3,069,091.
Godshall, Albert L. 3,041,873.
Herzberg, Roland J. 3,037,373.
Huyser, Francis C. 3,028,754.
Huyser, Francis C. 3,040,435.
Maugle, David R. 3,052,094.
O'Connor, Frank, and Daubman. 3,038,611.

Ametek, Inc.: *See*—Continued
Pernetta, Charles. 3,047,280.
Pernetta, Charles. 3,047,281.
Riley, George R. 3,060,745.
Schmaus, Siegfried H. A. 3,040,699.
Smith, William C., and Henninger. 3,044,625.
Storms, John N. 3,031,102.
Amey, George B., to Sylvania Electric Products Inc. Coil winding apparatus. 3,065,772, 11–27–62, Cl. 140—92.2.
Amherst Metal Products, Inc.: *See*—
Thomasko, Elmer J. 3,050,649.
Amiard, Gaston: *See*—
Velluz, Leon, Goffinet, Warnant, and Amiard. 3,066,154.
Amiard, Gaston, and R. Heymes, to Les Laboratoires Francais de Chimiotherapie. Novel 18-nor-pregnanic derivative and process for its preparation. 3,018,293, 1–23–62, Cl. 260—339.
Amiard, Gaston, J. Martel, R. Heymes, and L. Velluz, to Les Laboratoires Francais de Chimiotherapie. 3,11,17-trioxygenated-18-nor-D-homo-13α-steroids and processes for their preparation. 3,024,271, 3–6–62, Cl. 260—476.
Amiard, Gaston, and R. Heymes, to Roussel-UCLAF, S.A. 18-norcortisones and process for their preparation. 3,033,863, 5–8–62, Cl. 260—239.55.
Amiard, Gaston, B. Goffinet, R. Heymes, J. Martel, and L. Velluz, to Roussel-UCLAF. 18-11 lactone of 3-oxygenated 11β-hydroxy-13,17-seco-etiocholane-17,18-dioic acid and its esters and processes for their preparation. 3,035,064, 5–15–62, Cl. 260—343.2.
Amiard, Gaston, and R. Heymes, to Roussel-UCLAF, S.A. 18-nor-hydrocortisones and preparation thereof. 3,052,-697, 9–4–62, Cl. 260—397.45.
Amici, Alba: *See*—
Spalla, Celestino, Modelli, and Amici. 3,030,278.
Amici, Luigi: *See*—
Bottasso, Carlo, Amici, and Maiocchi. 3,047,041.
Amick, Donald H.: *See*—
Osborn, Scott G., and Amick. 3,044,792.
Amick, Lon G. Dispensing closure apparatus for medicine tablet bottles. 3,065,846, 11–27–62, Cl. 206—42.
Amir, Emanuel M., to Esso Research and Engineering Co. Conversion of epoxides. 3,068,291, 12–11–62, Cl. 260—593.
Amirault, Maxime, and P. Destoumieux. Sealing devices between a rotating part and a fixed part. 3,018,112, 1–23–62, Cl. 277—42.
Amis, Maurice B., and S. W. Wilson, to Esso Research and Engineering Co. Thermal cracking of hydrocarbons. 3,065,165, 11–20–62, Cl. 208—48.
Ammco Tools, Inc.: *See*—
Rystrom, Charles H. 3,029,794.
Ammerall, Peter, to Roxbury Carpet Co. Carpet fabric and method of making the same. 3,045,710, 7–24–62, Cl. 139—403.
Ammerman, George E.: *See*—
McOrily, Joseph, and Ammerman. 3,017,490.
Ammerman, George E., to The Edwin L. Wiegand Co. Electric heater-thermal element assembly. 3,017,491, 1–16–62, Cl. 219—37.
Ammerman, George E., to Edwin L. Wiegand Co. Electric heater assembly. 3,061,705, 10–30–62, Cl. 219—37.
Ammo Products, Inc.: *See*—
Erickson, Virginius R. 3,044,070.
Ammon, Ernst, to Maschinenfabrik Winkler, Fallert & Co. AG. Lifting and transporting device for holding hollow articles. 3,033,604, 5–8–62, Cl. 294—64.
Ammon, Richard C, to Burroughs Corp. Ten key calculating machine. 3,057,550, 10–9–62, Cl. 235—60.
Ammon, Roscoe A., to Minneapolis-Honeywell Regulator Co. Electrical indicating instrument. 3,021,505, 2–13–62, Cl. 340—27.
Ammondson, Clayton J., to Union Carbide Corp. Compositions and films comprising polyethylene and N,N'-ethylene bis oleamide and process of producing same. 3,021,296, 2–13–62, Cl. 260—32.6.
Amo Placer Mines, Inc.: *See*—
Peterson, Frank C. 3,035,821.
Amoruso, Joseph. Shingled tile block veneer wall. 3,015,-193, 1–2–62, Cl. 50—246.
Amos, Homer C.: *See*—
Strickland, Edward T., and Amos. 3,043,017.
Amos, Homer C., to Philbrick-Strickland Laminates, Inc. Edge perfecting tool. 3,027,622, 4–3–62, Cl. 29—78.
Amos, Homer C., to Philbrick-Strickland Laminates, Inc. Treating mechanism. 3,027,868, 4–3–62, Cl. 118—234.
Amos, James L.: *See*—
Ruffing, Norman R., Amos, and Puzar. 3,017,426.
Soderquist, Frederick J., Boyce, and Amos. 3,058,968.
Amos, Neal T.: *See*—
Dahlman, Herbert C., Rozelle, and Amos. 3,039,577.
Amot Controls Corp.: *See*—
Martin, Henry W., and Johnson. 3,038,439.
Ampco Metal, Inc.: *See*—
Klement, John F. 3,025,158.
Klement, John F. 3,062,642.
Ampex Corp.: *See*—
Barry, Leonard D. 3,020,356.
Brede, Dwight W. 3,032,285.
Brede, Dwight W. 3,045,072.
Clark, Harold V., and MacLeod. 3,017,462.
Clark, Harold V., and MacRae. 3,031,535.
Crown, Lionel. 3,023,692.
Dolby, Dale P. 3,037,290.
Ampex Corp.: *See*—Continued
Dolby, Dale P. 3,050,105.
Dolby, Ray M. 3,029,306.
Eldridge, Donald F., and Daniel. 3,070,670.
Jipp, John. 3,024,311.
Johnson, Andrew L. 3,027,508.
Johnson, Keith O. 3,045,937.
Johnson, Keith O. 3,045,938.
Johnston, William R. 3,047,842.
Kabell, Louis J., Murphy, and Guggi. 3,016,428.
Knowles, William S. 3,034,107.
Lee, Don N. 3,054,905.
Markowitz, Seymour. 3,025,591.
Markowitz, Seymour. 3,056,040.
Markowitz, Seymour. 3,061,740.
Moose, Joe D., and McCowen. 3,062,464.
Nagy, George. 3,024,368.
Newell, Chester W. 3,030,438.
Newell, Chester W. 3,040,126.
Newell, Chester W. 3,048,652.
Newell, Chester W., and Palthe. 3,038,034.
Oniki, Ben. 3,031,525.
Pfost, Robert F. 3,020,359.
Rehkiau, George D. 3,030,045.
Rehkiau, George D. 3,053,466.
Roizen, Joseph, and Pfost. 3,037,073.
Smith, Grant M., and Hibbard. 3,059,052.
Smith, Ralph N. 3,068,420.
Springins, John D., Jr., Pockman, and Brettell. 3,027,-694.
Tronslin, Cyril B., Sweeney, Brede, and Dorsett. 3,023,280.
Welsz, Robert S. 3,055,832.
Wellner, Richard F. 3,023,488.
Wernli, John M. 3,039,377.
Wilcox, Dwight D., Jr. 3,022,461.
Wilson, Al M. 3,058,113.
Amphenol-Borg Electronics Corp.: *See*—
Concelman, Carl W. 3,016,496.
Concelman, Carl W. 3,050,603.
Concelman, Carl W. 3,059,208.
Malek, Joseph V., and Cieniawa. 3,054,981.
Olsson, Billy E., and Just. 3,070,772.
Rensink, John M. 3,049,951.
Amphlett, Colin B., to The United Kingdom Atomic Energy Authority. Method for preparing granular gels. 3,056,647, 10–2–62, Cl. 23—50.
Ampsco Corp.: *See*—
Potter, Frederick T. 3,020,671.
Amrad, Inc.: *See*—
Orlin, William J. 3,017,769.
Amrein, Frank H. Speed-setting device. 3,053,111, 9–11–62, Cl. 74—533.
Amsco Packaging Machinery, Inc.: *See*—
Sylvester, John D., and Keenan. 3,019,583.
Sylvester, John D., and Messmer. 3,021,947.
Amsel, Harry: *See*—
Schapiro, Joachim I., and Amsel. 3,053,603.
Amsel Ltd.: *See*—
Schapiro, Joachim I., and Amsel. 3,053,603.
Amsler, Max. Building elements for toys, replicas and like articles. 3,032,919, 5–8–62, Cl. 46—26.
Amsted Industries Inc.: *See*—
Frushour, Russel E. 3,051,024.
Frushour, Russel E., Costello, Farekas, and Irish. 3,064,-540.
Garvin, George L. 3,069,935.
Gibney, Robert D. 3,065,648.
Helsten, Wesley A. 3,048,240.
Helsten, Wesley A. 3,059,729.
Hursen, Horace H. 3,043,317.
Keysor, Harold C. 3,038,755.
Polanin, Walter R., and Andrzejewski. 3,040,843.
Resener, Baird E. 3,047,130.
Zickefoose, Ellis J. 3,054,155.
Amstein, Edmund H., to The British Aluminum Co. Ltd. Production of refractory carbides, borides and the like. 3,019,084, 1–30–62, Cl. 23—204.
Amthor, George M.: *See*—
Payne, Dick, and Amthor. 3,048,422.
Amtmann, Rudolf J., to August Seuthe Maschinenfabrik. Method and apparatus for descaling strip material, especially strip iron. 3,054,162, 9–18–62, Cl. 29—81.
Amtsberg, Lester A., to Chicago Pneumatic Tool Co. Cam clutch device. 3,034,623, 5–15–62, Cl. 192—56.
Amundsen, Oliver O., and H. R. Botefuhr, to Skil Corp. Universal tool element retainer for rotary-hammer devices. 3,022,769, 2–27–62, Cl. 121—32.
Amundson, Moran L. Door assembly packaging. 3,017,022, 1–16–62, Cl. 206—60.
Amundson, Paul J., to American Air Filter Co., Inc. Air heater fuel control system. 3,017,112, 1–16–62, Cl. 236—10.
Amundson, Thomas M.: *See*—
Moore, Charles B., Amundson, and Dick. 3,064,902.
Amyot, Pierre, to Sarong Inc. Brassiere. 3,024,789, 3–13–62, Cl. 128—183.
Amyx, Edwin H., to Vib-Ritter Co., Inc. Stencil cutting method. 3,055,294, 9–25–62, Cl. 101—128.4.
An, Sang Y. Fuel regulating device for internal combustion engine. 3,038,707, 6–12–62, Cl. 261—58.

Anaconda Aluminum Co.: *See*—
Abel, William J. 3,048,954.
Sneddon, Robert A. 3,042,360.

Anaconda American Brass Co., The: *See*—
Baker, Robert S. 3,069,260.
Deacon, Alan J., and McKee. 3,041,647.
Nichols, Lyman B. 3,015,133.
Rowell, Douglas W. 3,068,929.

Anaconda Co., The: *See*—
Cadwell, Graham M. 3,046,203.

Anaconda Wire and Cable Co.: *See*—
Bluestein, Allen C., and Grossman. 3,036,982.
Burr, Harvey. 3,053,037.
D'Ascoli, Ralph G. 3,049,584.
Ebel, Lawrence C. 3,054,382.
Ege, Sigmund. 3,047,652.
Hinderer, Robert F., and Mullen. 3,054,142.
Kraft, Frederick B., and Roberts. 3,042,336.
Olson, John W. 3,025,340.
O'Mara, Joseph B. 3,042,353.
Snyder, Clermont J. 3,063,832.
Stanley, Robert A., and Bluestein. 3,060,261.
Volk, Victor F., Eash, and Wilson. 3,052,751.

Anander, Andrew K., to Powers Chemco, Inc. Halftone camera. 3,041,931, 7–3–62, Cl. 88—24.

Anander, Andrew K., to Powers Chemco, Inc. Apparatus for handling a contact screen in a photomechanical camera. 3,063,337, 11–13–62, Cl. 88—24.

Anander, Andrew K., to Powers Chemco, Inc. Photomechanical camera. 3,068,749, 12–18–62, Cl. 88—24.

Anastasio, Frank J.: *See*—
Smith, Edwin K., Jr., and Anastasio. 3,048,388.
Wilson, James F. 3,038,508.

Anatol, Jesus, to Compagnie Francaise des Matieres Colorantes. Process for the preparation of phosphocreatine and/or phosphocreatinine. 3,036,087, 5–22–62, Cl. 260—309.7.

Ancarani, Giorgio, to Zinser Textilmaschinen G.m.b.H. Device for locking ring holders of ring rails of ring spinning and twisting machines. 3,044,249, 7–17–62, Cl. 57—122.

Anchor Brush Co., Inc.: *See*—
Puschel, Herbert E. 3,065,994.

Anchor Hocking Glass Corp.: *See*—
Foss, George J., and Acton. 3,062,396.
Foss, George J., and Elleman. 3,053,387.
Fouse, Frederick Z. 3,048,889.
Fouse, Frederick Z., and Kidwell. 3,067,872.
Geddes, Charles A. 3,028,033.
Geddes, Charles A. 3,061,132.
Gora, Henry Z. 3,015,843.
Grumbles, Samuel O., Risch, and Gillen. 3,018,911.
Heffley, Ernest L., and Miller. 3,053,221.
Sandusky, Fred C. 3,022,906.
Shank, Herbert C., Jr. 3,031,370.
Stover, Harry E. 3,025,875.
Stover, Harry E. 3,029,918.
Stover, Harry E. 3,048,145.
Stover, Harry E. 3,054,234.
Stover, Harry E. 3,054,241.
Stover, Harry E. 3,064,807.
Stover, Harry E. 3,065,841.
Stover, Harry E., and Watson. 3,040,492.

Anchor Steel and Conveyor Co.: *See*—
Czarnecki, Adolph. 3 033,128.

Anciens Etablissements Albaret, Societe Anonyme des: *See*—
Paramythioti, Jean M. 3,029,889.

Anciens Etablissements Goldenberg & Cie: *See*—
Durget, Andre. 3,049,041.
Lemoine, Marcel C. J. 3,017,799.
Lemoine, Marcel C. J. 3,025,742.

Anderau, Emil G., to Stoffel Seals Corp. Tool for seals. 3,032,770. 5–8–62, Cl. 1—177.

Anderau, Emil G. Tool for seals. 3,069,685, 12–25–62, Cl. 1—177.

Anderberg, A. W., Mfg. Co.: *See*—
Anderberg, Axel W., and Blakemore. 3,028,621.

Anderberg, Axel W., and W. F. Blakemore, to A. W. Anderberg Mfg. Co. Window mounting device. 3,028,621, 4–10–62, Cl. 16—138.

Anderberg, Bo I., and S. O. K. Kjell-Berger, to Rockwool Aktiebolaget. Apparatus for the distribution of mineral wool on a band conveyor. 3,032,836, 5–8–62, Cl. 19—156.

Anderegg, Edward W. Double deck cot. 3,037,213, 6–5–62, Cl. 5—8.

Anderer, Joseph H.: *See*—
Bates, Arthur I., and Anderer. 3,046,083.

Anderes, Walter: *See*—
Landenberger, Eugen. 3,066,853.

Andermac: *See*—
Anderson,Edith T., and McLaughlin. 3,044,465.

Anders, Hugo, to Carl Zeiss. Gladd bodies provided with colored layers and a method for producing the same. 3,042,542, 7–3–62, Cl. 117—33.3.

Anders, Ulrich W. P., to Daimler-Benz Aktiengesellschaft. Mounting of barometer boxes in regulator housings, particularly for motor vehicles. 3,058,490, 10–16–62, Cl. 137—786.

Andersen, Arthur, Jr. Portable batch type dryer. 3,056,214, 10–2–62, Cl. 34—45.

Andersen, Birger L. and K. L., and B. Lie. Knitting machine. 3,041,859, 7–3–62, Cl. 66—92.

Andersen, Carl N. (deceased); by Dorothy Andersen, executrix. Aryl mercury sulfoacylates. 3,060,209, 10–23–62, Cl. 260—401.

Andersen, Charles H., to Tingue, Brown & Co. Anchoring device for covers. 3,035,332, 5–22–62, Cl. 29—118.

Andersen, Charles J.: *See*—
Kennedy, Harry R., Andersen, and Jones. 3,059,407.

Andersen Corp.: *See*—
Fredricksen, Verne. 3,042,962.

Andersen, Donald L., to General Mills, Inc. Method of inhibiting corrosion. 3,069,225, 12–18–62, Cl. 21—2.7.

Andersen, Donald L., and J. B. Thielen, to General Mills, Inc. Process for inhibiting corrosion. 3,019,196, 1–30–62, Cl. 252—392.

Andersen, Dorothy: *See*—
Andersen, Cari N. 3,060,209.

Andersen, Fred V.: *See*—
Markson, John L., Noe, and Andersen. 3,065,419.

Andersen, Glenn R.: *See*—
Snowdon, Donald R., and Andersen. 3,018,036.

Andersen, Gordon W., J. L. Hill, and D. W. Martin, to Sperry Rand Corp. Electrical connector block for interconnecting circuits. 3,026,494, 3–20–62, Cl. 339—17.

Andersen, Holger C.: *See*—
Cohn, Johann G. E., Haley, and Andersen. 3,056,646.

Andersen, Holger C., to Engelhard Industries, Inc. Method of purifying gases containing oxygen and oxides of nitrogen. 3,053,613, 9–11–62, Cl. 23—2.

Andersen, Holger C., J. G. B. Cohn, and R. C. Glogau, to Engelhard Industries, Inc. Selective removal of nitrogen oxides from gas streams. 3,032,387, 5–1–62, Cl. 23—2.

Andersen, Johan M., and J. H. Dockstader, to Duplicon Co., Inc. Nestable shop truck. 3,046,033, 7–24–62, Cl. 280—33.99.

Andersen, Johan R., to Bell Telephone Laboratories, Inc. Shaft keying arrangement. 3,056,618, 10–2–62, Cl. 287—126.

Andersen, Kristian L.: *See*—
Andersen, Birger L. and K. L., and Lie. 3,041,859.

Andersen, Niels E., to F. L. Smidth & Co. Rotary kiln with built-in heat exchanger. 3,036,822, 5–29–62, Cl. 263—32.

Andersen, Orville A. Muscle exerciser. 3,029,076, 4–10–62, Cl. 272—67.

Andersen, Pearl L.: *See*—
Heberling, Pearl L., and Andersen. 3,046,991.

Anderson, Peter B., to Massey-Ferguson (United Kingdom) Ltd. Series type threshing mechanism. 3,038,476, 6–12–62, Cl. 130—27.

Andersen, Peter B., and J. B. Murray, to Massey-Ferguson (United Kingdom) Ltd. Agricultural harrows. 3,051,252, 8–28–62, Cl. 172—290.

Andersen, Poul, to The Wallingford Steel Co. Edge guide feed-back system. 3,040,944, 6–26–62, Cl. 226—21.

Andersen, Ralph V.: *See*—
Bain, Robert H. 3,027,583.

Andersen, Roland. Conditioners for electric shavers and the like. 3,032,639, 5–8–62, Cl. 51—263.

Andersen, Tengel: *See*—
Anderson, Arthur C., and Andersen. 3,041,809.

Andersen, Wilhelm A., and J. E. Haegh, to Allis-Chalmers Mfg. Co. Two speed synchronous induction motor. 3,016,482, 1–9–62, Cl. 318—224.

Anderson, A. C., Corp.: *See*—
Anderson, Arthur C., and Andersen. 3,041,809.

Anderson, Albert E. Electrical contacting device. 3,042,778, 7–3–62, Cl. 200—147.

Anderson, Albert E., and A. K. Newman, to Homelite, a division of Textron Inc. Vehicle belt drive. 3,059,397, 10–23–62, Cl. 56—25.4.

Anderson, Alfred and E. A. Sheet feeders. 3,032,338, 5–1–62, Cl. 271—36.

Anderson, Alfred F., to The Fuller Brush Co. Transfer mechanism for brush fibers or the like. 3,048,442, 8–7–62, Cl. 300—7.

Anderson, Alfred L. Seeder. 3,039,660, 6–19–62, Cl. 222—238.

Anderson, Amos R.: *See*—
Smith, William E., and Anderson. 3,041,240.

Anderson, Anders S. Load transfer device for cultivators. 3,054,462, 9–18–62, Cl. 172—629.

Anderson, Andrew E.: *See*—
Fennema, Richard, and Anderson. 3,065,951.

Anderson, Andrew M., to General Electric Co. Clothes laundering machine having a lint filter. 3,058,328, 10–16–62, Cl. 68—18.

Anderson, Andrew W., to Scandia Packaging Machinery Co. Turret wheel for wrapping machines. 3,055,490, 9–25–62, Cl. 198—211.

Anderson, Archie C., to A. O. Smith Corp. Methods of making reinforced plastic vessels with integrally formed heads. 3,052,585, 9–4–62, Cl. 156—175.

Anderson, Archie L.: *See*—
Browning, James E., Anderson, and Youngblood. 3,053,352.

Anderson, Ardo T. Special purpose ear corn rake. 3,057,146, 10–9–62, Cl. 56—400.01.

Anderson, Arnold F.: *See*—
Schmitz, Robert A., and Anderson. 3,016,327.

Anderson, Arthur A., to The Specialty Mfg. Co. Valve with spherical closure. 3,042,358, 7–3–62, Cl. 251—172.

Anderson, Arthur B. Mechanic's tray arrangement. 3,015,530, 1–2–62, Cl. 311—21.

Anderson, Arthur C., and T. Andersen, to A. C. Anderson Corp. Suspension for mower unit. 3,041,809, 7–3–62, Cl. 56—25.

Anderson, Arthur G. : *See*—
Walker, Robert M., Anderson, and Rosenheim. 3,018,958.

Anderson, Arthur L. : *See*—
Anderson, Arthur M, and A. L. 3,056,318.

Anderson, Arthur M. and A. L. Reaching and gripping tool. 3,056,318, 10–2–62, Cl. 81—112.

Anderson, Arthur R., to Concrete Technology Corp. Concrete prestressing cable grip. 3,045,305, 7–24–62, Cl. 24—122.6.

Anderson, Arthur W., to The Dow Chemical Co. Ether-esters of carboxylic acids. 3,067,222, 12–4–62, Cl. 260—410.6.

Anderson, Arthur W., G. K. Greminger, Jr., and G. H. Beaver, to The Dow Chemical Co. Cellulosic materials plasticized with hydroxypropylsucrose. 3,043,720, 7–10–62, Cl. 117—144.

Anderson, Arthur W., J. M. Bruce, Jr., N. G. Merkling, deceased (by N. K. Merckling, administratrix), and W. L. Truett, to E. I. du Pont de Nemours and Co. Polymerization catalyst. 3,050,471, 8–21–62, Cl. 252—429.

Anderson, August. Sprinkler head shield. 3,018,057, 1–23–62, Cl. 239—201.

Anderson, Axel F. L. : *See*—
Meyer, Harry A., and Anderson. 3,058,650.

Anderson, Axel F. L., to American Radiator & Standard Sanitary Corp. Fluid coupling. 3,045,432, 7–24–62, Cl. 60—54.

Anderson, Bazeel B. Sofa bed. 3,028,607, 4–10–62, Cl. 5—17.

Anderson, Bazeel B., and J. D. Kimball. Mechanical sofa bed. 3,028,608, 4–10–62, Cl. 5—17.

Anderson, Bror E., to A. B. Dick Co. Stencil sheet assembly including top film. 3,067,673, 12–11–62, Cl. 101—128.2.

Anderson Bros. Mfg. Co. : *See*—
Anderson, Swan F. 3,029,574.
Drummond, Joseph E. 3,029,996.
Wehr, Robert D. Re. 25,228.

Anderson, Carl E., to Waldorf Paper Products Co. Reclosing carton. 3,048,324, 8–7–62, Cl. 229—51.

Anderson, Carl H., and N. C. Brown. Vehicle loading device. 3,035,722, 5–22–62, Cl. 214—78.

Anderson, Carl P. : *See*—
Lunt, Alden P., and Anderson. 3,026,924.

Anderson, Carl P., and R. L. Kearney, to Smith-Corona Marchant Inc. Tape reader. 3,064,079, 11–13–62, Cl. 178—17.

Anderson, Catherine J. : *See*—
Kollar, Irene M., and Anderson. 3,032,249.

Anderson, Charles H. J., and A. P. G. Friederichs, to North American Philips Co. Inc. Airfield lighting fixture. 3,026,408, 3–20–62, Cl. 240—1.2.

Anderson, Charles I. Lawn debris chopper. 3,058,284, 10–16–62, Cl. 56—25.4.

Anderson, Charles N., to Boeing Airplane Co. Contoured spot-faced lap joint and method. 3,042,159, 7–3–62, Cl. 189—36.

Anderson, Charles U., and E. W. Stanley, to Armstrong Cork Co. Method and apparatus for indicating registration in a rotary multicolor printing machine. 3,015,266, 1–2–62, Cl. 101—211.

Anderson, Charlotte D. : *See*—
Young, David M., and Anderson. 3,065,236.

Anderson, Chester A., ⅔ each to M. O. Edman, A. Erickson, and J. C. Lepler. Ventilator for building eaves. 3,018,713, 1–30–62, Cl. 98—37.

Anderson, Clarence A., to The Detroit Edison Co. Method of induction welding of stranded aluminum cable. 3,017,483, 1–16–62, Cl. 219—9.5.

Anderson, Clarence W., to Norton Co. Diamond cut-off wheel. 3,064,399, 11–20–62, Cl. 51—206.4.

Anderson, Clayton & Co. : *See*—
Reddick, John A. 3,039,303.
Reddick, John A., Berkley, and Jennings. 3,039,293.

Anderson, Clayton W. Valve structure. 3,063,671, 11–13–62, Cl. 251—159.

Anderson, Cleve R., to United States of America, Atomic Energy Commission. Nuclear reactor. 3,046,212, 7–24–62, Cl. 204—193.2.

Anderson, Cliff L. Ophthalmic composition. 3,035,971, 5–22–62, Cl. 167—53.2.

Anderson, Clifford C. Rotating tire cleaner. 3,044,088, 7–17–62, Cl. 15—21.

Anderson, Clifford E. : *See*—
Hochhalter, Edward, and Anderson. 3,056,396.

Anderson, Clifford E. Valve. Re. 25,177, 5–29–62, Cl. 251—175.

Anderson, Clifford E., to ACF Industries, Inc. Manual operating means for piston operated valves. 3,029,060, 4–10–62, Cl. 251—14.

Anderson, Clifford E., to ACF Industries Inc. Three way gate valve. 3,068,901, 12–18–62, Cl. 137—625.48.

Anderson, Clifford E., F. F. Robertson, and J. C. Kinley, to J. C. Kinley. Calipering tools. 3,061,938, 11–6–62, Cl. 33—178.

Anderson, Clifford E., and P. J. Natho, to ACF Industries, Inc. Eccentric plug valve. 3,064,940, 11–20–62, Cl. 251—249.5.

Anderson, Clifford E., R. A. Gulick, and D. D. Nagel, to ACF Industries, Inc. Ball valve. 3,067,977, 12–11–62, Cl. 251—172.

Anderson, Collie W., C. L. Stinnett, and H. H. Ayers, to Dapper Hosiery Mills Inc. Shadow-effect stocking. 3,069,884, 12–25–62, Cl. 66—180.

Anderson Co., The : *See*—
Beatty, Eldon L., and Martens. 3,062,070.
Diebold, Alfred J. 3,019,070.
Krohm, Fred A. 3,041,653.
Krohm, Fred A. 3,061,865.
Krohm, Fred A. 3,061,866.
Krohm, Fred A. 3,064,297.
Martens, Jack E. 3,046,055.
Martens, Jack E. 3,062,528.
Wise, Ralph H. Re. 25,166.
Wubbe, Leo J. 3,059,486.

Anderson, Conroy D., and R. H. Cramer, to Socony Mobil Oil Co., Inc. High density catalyst, method for preparing the same, and use of said catalyst composite in the cracking of hydrocarbons. 3,041,269, 6–26–62, Cl. 208—120.

Anderson, Conroy D., R. H. Cramer, and A. F. Houser, to Socony Mobil Oil Co., Inc. High density catalyst and method for preparing the same. 3,041,271, 6–26–62, Cl. 208—120.

Anderson Controls, Inc. : *See*—
Anderson, Elroy H., and Heidorn. 3,043,994.
Anderson, Elroy H., and Heidorn. 3,045,290.

Anderson, Daniel R. Ceiling material hoist. 3,026,090, 3–20–62, Cl. 254—4.

Anderson, David B. : *See*—
Fitzgerald, Charles S., and Anderson. 3,043,184.

Anderson, David D. : *See*—
Maul, John A., Brugge, and Anderson. 3,018,725.

Anderson, David K. : *See*—
Baker, Reuben C. 3,054,450.

Anderson, David W., Jr., and J. F. McDonnell, Jr., to The Borden Co. Dermatological preparation. 3,061,512, 10–30–62, Cl. 167—58.

Anderson, Donald G. Polish container. 3,015,120, 1–2–62, Cl. 15—258.

Anderson, Douglas O., Jr. : *See*—
Hall, Marchand B., Anderson, and Plattner. 3,032,075.
Hall, Marchand B., Anderson, and Staron. 3,021,876.

Anderson, Duane B. : *See*—
Lummus, James L., and Anderson. 3,041,275.
Scott, Platho P., Jr., Anderson, and Park. 3,017,351.

Anderson, Duane B., and A. Park, to Pan American Petroleum Corp. Low fluid loss composition. 3,022,248, 2–20–62, Cl. 252—8.5.

Anderson, Duane B., and J. L. Lummus, to Pan American Petroleum Corp. Low cost emulsion drilling fluid. 3,057,797, 10–9–62, Cl. 252—8.5.

Anderson, Earl J. Tail gates for vehicles. 3,063,747, 11–13–62, Cl. 296—57.

Anderson, Earl R. Manual clingstone peach splitter. 3,016,937, 1–16–62, Cl. 146—72.

Anderson, Earl R., to Filper Corp. Fruit orientator. 3,064,794, 11–20–62, Cl. 198—33.

Anderson, Edith T., and J. E. McLaughlin, to Andermac. Mixing and dispensing apparatus. 3,044,465, 7–17–62, Cl. 128—230.

Anderson, Edward A., to The Lamson & Sessions Co. Feed mechanism. 3,030,834, 4–24–62, Cl. 78—99.

Anderson, Edward E. : *See*—
Marvin, John, and Anderson. 3,017,273.
Marvin, John, Anderson, and Tichenor. 3,041,178.

Anderson, Edward E., and A. W. Anti, to Ocean Spray Cranberries, Inc. Process for preparing cranberry sauce. 3,023,108, 2–27–62, Cl. 99—102.

Anderson, Edward P., to Engelhard Industries, Inc. Cathodic protection anode assembly. 3,019,177, 1–30–62, Cl. 204—196.

Anderson, Edward P., to Engelhard Industries, Inc. Cathodic protection of ships. 3,022,234, 2–20–62, Cl. 204—147.

Anderson, Edward P., to Engelhard Industries, Inc. Anode for cathodic protection systems. 3,022,242, 2–20–62, Cl. 204—196.

Anderson, Edward P., to Engelhard Industries, Inc. Anode assembly for cathodic protection systems. 3,022,243, 2–20–62, Cl. 204—196.

Anderson, Edwin A. Junk retriever. 3,023,810, 3–6–62, Cl. 166—99.

Anderson, Edwin H., to The Parker Pen Co. Assembly apparatus. 3,052,018, 9–4–62, Cl. 29—235.

Anderson, Edwin V., J. A. Mack, and A. N. Friberg, to Amco Engineering Co. Enclosure. 3,034,844, 5–15–62, Cl. 312—257.

Anderson, Einar J. Shutter and operating mechanism therefor. 3,055,281, 9–25–62, Cl. 95—59.

Anderson Electric Corp. : *See*—
Spurgeon, Samuel J. 3,060,237.
Spurgeon, Samuel J. 3,060,258.

Anderson, Elroy H., and C. F. Heidorn, to Anderson Controls, Inc. Encapsulated coil and method of making. 3,043,994, 7–10–62, Cl. 317—158.

Anderson, Elroy H., and C. F. Heidorn, to Anderson Controls, Inc. Method of encapsulating coils. 3,045,290, 7–24–62, Cl. 18—59.

Anderson, Elvin L., to Smith Kline & French Laboratories. β-aminoalkylthianaphthene and β-aminoalkylbenzofuran derivatives. 3,070,606, 12–25–62, Cl. 260—330.5.

Anderson, Emil, to Electrolux Corp. Vacuum cleaner suction nozzle. 3,032,800, 5–8–62. Cl. 15—371.

Anderson, Emil, and J. J. Kowalewski, to Electrolux Corp. Method of and apparatus for making container closures. 3,052,588, 9–4–62, Cl. 156—252.

Anderson, Esca E. : *See*—
Ambler, Vernon C., Anderson, and Wright. 3,015,996.
Anderson, Eugene A. : *See*—
Anderson, Alfred and E. A. 3,032,338.
Anderson, Everett V., to United States Rubber Co. Vulcanization of latex with 4,4'-dithiodimorpholine. 3,038,949, 6–12–62, Cl. 260—776.
Anderson, Fred H. Extension cord clamp. 3,029,408, 4–10–62, Cl. 339—75.
Anderson, Fred N., to Cherry Electrical Products Corp. Thermal snap-action switch. 3,019,319, 1–30–62, Cl. 200—122.
Anderson, Frederick V., and A. Hess, to Thompson Ramo Wooldridge Inc. Nozzle and turbine wheel shroud support. 3,066,911, 12–4–62, Cl. 253—65.
Anderson, George B. : *See*—
Miller, William R., Anderson, Compton, and Hold. 3,037,402.
Anderson, George D. Building construction and method. 3,058,549. 10–16–62, Cl. 189—1.
Anderson, George L., to Eastman Oil Well Survey Co. Gas detection apparatus. 3,055,743, 9–25–62, Cl. 23—253.
Anderson, George M., to McGraw-Edison Co. Telephone dialing system. 3,041,412, 6–26–62, Cl. 179—90.
Anderson, George M., and S. S. Jaffe, to The Electric Storage Battery Co. Battery charging circuit. 3,058,046, 10–9–62, Cl. 320—33.
Anderson, George O., and R. W. Bradley, to United Shoe Machinery Corp. Presses for cutting blanks from sheet material having safety means to protect the operator. 3,054,314, 9–18–62, Cl. 83—68.
Anderson, George R. Clamping device. 3,055,068, 9–25–62, Cl. 24—81.
Anderson, Gerald R. : *See*—
Creed, Sherman H., and Anderson. 3,024,669.
Anderson, Gerald R., and J. Boyce, to FMC Corp. Apparatus for pitting and halving fruit. 3,040,793, 6–26–62, Cl. 146—28.
Anderson, Glenn R., and J. H. Klancke, to McCulloch Corp., Scott Division. Outboard motor tilt mechanism. 3,016,-869, 1–16–62, Cl. 115—17.
Anderson, Glenn V., to Tonna Engineering Co., Inc. Can washer. 3,047,893, 7–7–62, Cl. 15—71.
Anderson, Gordon C., and L. W. Pray, to Saco-Lowell Shops. Spindle drive. 3,060,673, 10–30–62, Cl. 57—105.
Anderson, Gordon F. Omni-directional pressure probe. 3,034,353, 5–15–62, Cl. 73—212.
Anderson, Gordon R., and J. D. McCallion, to Sperry Rand Corp. Illuminating means for direct reading instruments. 3,029,334, 4–10–62. Cl. 240—1
Anderson, Gordon S. : *See*—
Higgins, Theodore S., and Anderson. 3,037,715.
Anderson, Gran V., to The Texas Pipe Line Co. Self-actuating valve. 3,028,879, 4–10–62, Cl. 137—556.
Anderson, Harlan V., to RAP Industries, Inc. Adhesive composition and product. 3,061,493, 10–30–62, Cl. 154—50.
Anderson, Harlee A. : *See*—
Schober, Wayne E., and Anderson. 3,040,857.
Anderson, Harold C., to Litton Systems, Inc. Measuring system. 3,056,953. 10–2–62, Cl. 343—112.
Anderson, Harold J. Outboard motor lift. 3,029,770, 4–17–62, Cl. 115—41.
Anderson, Harold N. Die rolling. 3,053,126, 9–11–62, Cl. 80—16.
Anderson, Harold P., to Bell Telephone Laboratories, Inc. Bistable circuit using avalanche effect in a double base diode. 3,026,425, 3–20–62, Cl. 307—88.5.
Anderson, Harvey L., and H. T. Wingfield, to Minnesota Mining and Mfg. Co. Process for emulsion polymerization of butadiene unsaturated carboxylic acid copolymers and products thereof. 3,055,855, 9–25–62, Cl. 260—29.7.
Anderson, Harvey L., Jr., and Z. S. Lowe. Loader bucket. 3,022,910, 2–27–62, Cl. 214—140.
Anderson, Hattie T. and M. Self-tucking fitted sheet. 3,020,566, 2–13–62, Cl. 5—334.
Anderson, Henry : *See*—
Tegner, Carl-Axel E., and Anderson. 3,037,082.
Anderson, Herbert R., Jr., to Phillips Petroleum Co. Radiation curing of polymers. 3,057,791, 10–9–62, Cl. 204—154.
Anderson, Herbert R., Jr., to Phillips Petroleum Co. Rubber products resistant to radiation damage. 3,057,818, 10–9–62, Cl. 260—45.7.
Anderson, Howard A., to Bissell Inc. Self-wringing mop. 3,037,229, 6–5–62, Cl. 15—119.
Anderson, Hugo F., to Hastings Mfg. Co. Machine for sizing combined expander and spacer. 3,048,948, 8–14–62, Cl. 51—98.
Anderson, J Edward C., and F. C. Haberland, to Borg-Warner Corp. Internal-external gear pump. 3,026,809, 3–27–62, Cl. 103—120.
Anderson, James, to Vertimax Ltd. Hydraulic feed system of metals and other cutting machines. 3,018,629, 1–30–62, Cl. 60—97.
Anderson, James A., and S. S. Bushnell, Jr., to Breneman-Hartshorn, Inc. Window shade fastening means. 3,018,-824, 1–30–62, Cl. 160—394.
Anderson, James A., Jr., R. L. Heinrich, and E. J. Hoffmann, to Esso Research and Engineering Co. Conversion of asphaltic materials. 3,068,168, 12–11–62, Cl. 208—108.
Anderson, James B., to H. J. Heinz Co. Apparatus for separating fruit pulp from skins. 3,018,717, 1–30–62, Cl. 100—97.
Anderson, James D., to Dymo Industries, Inc. Embossing tape. 3,047,443, 7–31–62, Cl. 154—46.
Anderson, James D., and E. L. Cheh, to Burndy Corp. Compressing tool with opposed movable dies. 3,021,738, 2–20–62, Cl. 81—15.
Anderson, James H., to Borg-Warner Corp. Sleeve valves. 3,025,880, 3–20–62, Cl. 137—625.33.
Anderson, James H., and H. E. Aughenbaugh, to Borg-Warner Corp. Flexible couplings. 3,041,857, 7–3–62, Cl. 64—15.
Anderson, James R., and A. E. Abramson, to Research, Inc. Method and apparatus for simultaneous programming and recording. 3,060,332, 10–23–62, Cl. 307—149.
Anderson, John A., Jr. Rotary electric pencil and rack. 3,026,847, 3–27–62, Cl. 120—9.
Anderson, John E., to Union Carbide Corp. Arc torch chemical reactions. 3,051,639, 8–28–62, Cl. 204—171.
Anderson, John E., N. W. Franke, and F. J. Strellec, to Gulf Research & Development Co. Process for the production of delta and epsilon caprolactones. 3,060,197, 10–23–62, Cl. 260—343.
Anderson, John F., Jr. : *See*—
Potts, John M., Elder, and Anderson. 3,022,154.
Anderson, John G., to General Electric Co. Surge voltage recorder. 3,034,124, 5–8–62, Cl. 346—74.
Anderson, John H. : *See*—
Miller, Teddy, Anderson, and Rosbe. 3,015,302.
Miller, Teddy, Anderson, and Rosbe. 3,019,938.
Anderson, John L., to E. I. du Pont de Nemours and Co. Crosslinking condensation polymers with intralinear cyclobutene rings. 3,018,271, 1–23–62, Cl. 260—47.
Anderson, John L., to E. I. du Pont de Nemours and Co. 2-oxodioxolanes. 3,021,340, 2–13–62, Cl. 260—340.2.
Anderson, John L., to International Business Machines Corp. Superconductive shift registers. 3,021,439, 2–13–62, Cl. 307—88.5.
Anderson, John L., to International Business Machines Corp. Cryogenic circuit with output threshold varied by input current. 3,021,440, 2–13–62, Cl. 307—88.5.
Anderson, John L., to International Business Machines Corp. Full adder. 3,022,951, 2–27–62, Cl. 235—176.
Anderson, John L., to International Business Machines Corp. Multi-purpose superconductor computer circuits. 3,031,586, 4–24–62, Cl. 307—88.5.
Anderson, John L., to International Business Machines Corp. Superconductor adder circuit. 3,047,230, 7–31–62, Cl. 235—175.
Anderson, John L., to International Business Machines Corp. Cryogenic circuit. 3,050,683, 8–21–62, Cl. 324—117.
Anderson, John L., and R. H. Hand, to International Business Machines Corp. Superconductor persistent current circuit. 3,019,354, 1–30–62, Cl. 307—88.5.
Anderson, John M., to General Electric Co. Gaseous discharge structures. 3,050,687, 8–21–62, Cl. 329—158.
Anderson, John R., to The National Cash Register Co. Storage devices. 3,021,510, 2–13–62, Cl. 340—173.2.
Anderson, John R., to Heppenstall Co. Tongs. 3,037,806, 6–5–62, Cl. 294—103.
Anderson, John R., and R. M. Clinehens, to The National Cash Register Co. Method of making magnetic data storage devices. 3,042,997, 7–10–62, Cl. 29—155.5.
Anderson, John T., to Crown Cork & Seal Co., Inc. Article handling apparatus and system. 3,067,891, 12–11–62, Cl. 214—307.
Anderson, John W. Motion-transmitting assembly. Re. 25,266, 10–16–62, Cl. 15—250.25.
Anderson, John W. Windshield wiper blade. 3,018,500, 1–30–62, Cl. 15—250.42.
Anderson, John W. Take-apart socket for electric lamps. 3,020,512, 2–6–62, Cl. 339—67.
Anderson, John W. Windshield wiper blade. 3,041,654, 7–3–62, Cl. 15—250.42.
Anderson, John W. Container with dispensing opening and a spout reversibly connectible to said opening. 3,042,272, 7–3–62, Cl. 222—539.
Anderson, John W. Motion-transmitting mechanism. 3,059,-484, 10–23–62. Cl. 74—82.
Anderson, John W. Pulley structure. 3,059,487, 10–23–62, Cl. 74—108.
Anderson, John W. Improved dispenser delivering chamber. 3,062,415. 11–6–62. Cl. 222—320.
Anderson, John W., F. Miley, and W. C. Pritchard, to United States of America, Atomic Energy Commission. Coated mold for casting plutonium. 3,023,119, 2–27–62, Cl. 117—5.1.
Anderson, Joseph M. Ventilation system. 3,052,176, 9–4–62, Cl. 98—33.
Anderson, Julius, and R. R. Currier, to Pittsburgh Plate Glass Co. Process of bleaching sized cotton fabrics. 3,056,645, 10–2–62, Cl. 8—109.
Anderson, Kay B. Package for liquids and other materials. 3,043,489, 7–10–62, Cl. 229—14.
Anderson, Kenneth A., and C. E. De Paepe, to Ametek, Inc. Filter apparatus. 3,028,968, 4–10–62, Cl. 210—236.
Anderson, Kenneth H., and R. G. Kelso, to Union Carbide Corp. Hydrocarbyltin salts of substituted succinic acids. 3,037,040, 5–29–62, Cl. 260—429.7.
Anderson, Kenneth H., and R. G. Kelso, to Union Carbide Corp. Stabilization of vinyl halide resins. 3,068,195, 12–11–62, Cl. 260—45.75.
Anderson, Kenneth V. Jacket with picture pockets. 3,055,-133, 9–25–62, Cl. 40—129.

Anderson, Lehman E., to Hamilton Mfg. Co. Heater system. 3,021,605, 2–20–62, Cl. 34—45.

Anderson, Lester F., and W. C. Fink, to Sylvania Electric Products Inc. Photoflash lamp. 3,067,601, 12–11–62, Cl. 67—31.

Anderson, Listen R. Fuel economizer attachment for intake manifolds. 3,050,044, 8–21–62, Cl. 123—25.

Anderson, Lloyd E., Sr., to Pittsburgh-Des Moines Steel Co. Adjustable mounting for a centrifugal grit blasting machine. 3,015,913, 1–9–62, Cl. 51—9.

Anderson, Lloyd E., Sr., to Pittsburgh-Des Moines Steel Co. Floating seal for tanks. 3,019,935, 2–6–62, Cl. 220—26.

Anderson, Lloyd R. Non-loosening hinges. 3,021,554, 2–20–62, Cl. 16—167.

Anderson, Lorenze R. : *See*—
Dretzke, Carl F., and Anderson. 3,055,649.

Anderson, Lucia E. : *See*—
Haskell, Theodore H., Ehrlich, Pittillo, and Anderson. 3,043,830.

Anderson, Lyle C. Ice block extractor. 3,059,451, 10–23–62, Cl. 62—355.

Anderson, Martin : *See*—
Anderson, Hattie T. and M. 3,020,566.

Anderson, Martin. Extraction of water from foodstuffs. 3,049,430, 8–14–62, Cl. 99—207.

Anderson, Martin T. Fishing lure. 3,018,582, 1–30–62, Cl. 43—35.

Anderson, Marvin E., to Armour Research Foundation of Illinois Institute of Technology. Magnetic transducer head. 3,015,533, 1–2–62, Cl. 346—74.

Anderson, Marvin E., to Armour Research Foundation of Illinois Institute of Technology. Magnetic modulator system. 3,045,229, 7–17–62, Cl. 340—174.1.

Anderson, Maynard E., to American Radiator & Standard Sanitary Corp. Pressure actuated dispenser for washing machines. 3,038,639, 6–12–62, Cl. 220—70.

Anderson, Maynard E., F. F. Farran, and J. H. Deery, to American Radiator & Standard Sanitary Corp. Vibratory detergent dispenser. 3,033,423, 5–8–62, Cl. 222—161.

Anderson, Melvin R., and M. C. Nelson, to Westinghouse Electric Corp. Luminaire. 3,040,994, 6–26–62, Cl. 240—103.

Anderson, Melvin R., and L. H. Seeley, to Westinghouse Electric Corp. Luminaire. 3,064,123, 11–13–62, Cl. 240—25.

Anderson, Neal S., J. S. Bendat, and C. E. Williams, to Thompson Ramo Wooldridge Inc. Signal analyzing apparatus. 3,043,515, 7–10–62, Cl. 235—181.

Anderson, Nellie T. : *See*—
Holmes, Richard R., and Anderson. 3,047,455.
Ucci, Pompeilo A., and Anderson. 3,047,456.

Anderson, Nelson E., to Air Reduction Co., Inc. Automatic machine control. 3,026,405, 3–20–62, Cl. 219—124.

Anderson, Nelson E., to Air Reduction Co., Inc. Initiation and maintenance of power arcs. 3,030,495, 4–17–62, Cl. 219—131.

Anderson, Nelson E., to Air Reduction Co., Inc. Arc welding apparatus. 3,059,098, 10–16–62, Cl. 219—131.

Anderson, Nelson E., to Air Reduction Co., Inc. Terminal connector. 3,065,438, 11–20–62, Cl. 339—16.

Anderson, Norman, to Sir George Godfrey & Partner (Holdings) Ltd. Butterfly valves. 3,027,133, 3–27–62, Cl. 251—173.

Anderson, Norman J. Method and apparatus for measurement of dynamic dissipation and related factors. 3,049,666, 8–14–62, Cl. 324—57.

Anderson Oil & Chemical Co., Inc. : *See*—
Feigin, Robert. 3,068,262.

Anderson, Olof V., to Anson, Inc. Necktie clasp. 3,049,772, 8–21–62, Cl. 24—49.

Anderson, Oscar A., to United States of America, Atomic Energy Commission. Stabilized pinch machine. 3,031,396, 4–24–62, Cl. 204—193.2.

Anderson, Oscar A., to United States of America, Atomic Energy Commission. Sheet plasma device. 3,044,945, 7–17–62, Cl. 204—193.2.

Anderson, Oscar B., and J. M. Mundell, to United States Steel Corp. Slag ladle. 3,055,316, 9–25–62, Cl. 105—270.

Anderson, Owen T., to International Business Machines Corp. Superconductive circuits. 3,050,721, 8–21–62, Cl. 340—347.

Anderson, Paul L., and J. A. Zagusta, to Rogers Corp. Printed circuit structure and method of making the same. 3,052,823, 9–4–62, Cl. 317—101.

Anderson, Peter B. Air and oil pressure recoil mechanism for plows. 3,042,122, 7–3–62, Cl. 172—265.

Anderson, Quentin A., to American Can Co. Machine for depalletizing cans. 3,056,515, 10–2–62, Cl. 214—8.5.

Anderson, Ralph, and C. H. Deal, Jr., to Shell Oil Co. Extractive distillation. 3,050,573, 8–21–62, Cl. 260—681.5.

Anderson, Ralph F. : *See*—
Anderson, Swan F., and Strombeck. 3,045,405.

Anderson, Ralph F. Dispensing valve. 3,055,404, 9–25–62, Cl. 141—144.

Anderson, Ralph F. Lid feeding apparatus. 3,040,494, 6–26–62, Cl. 53—287.

Anderson, Ralph P., and R. F. Dehn, to The Cleveland Crane & Engineering Co. Hydraulic press. 3,031,950, 5–1–62, Cl. 100—258.

Anderson, Ralph T., and D. J. Buettner. Auxiliary vehicle axle. 3,016,102, 1–9–62, Cl. 180—22.

Anderson, Ralph Z., and R. A. Meyer, Sr.; said Anderson assor. to said Meyer, Sr., d.b.a. La-Ra-Co. Coil accommodating and dispensing device. 3,030,047, 4–17–62, Cl. 242—94.

Anderson, Richard A. Automatic airflow control. 3,028,800, 4–10–62, Cl. 98—2.

Anderson, Richard D. : *See*—
Smolin, Edwin M., and Anderson. 3,025,322.

Anderson, Richard D., and E. M. Smolin, to American Cyanamid Co. Acrylic monomers and the preparation thereof. 3,025,319, 3–13–62, Cl. 260—486.

Anderson, Richard K., ½ to W. E. Edwards. Wheel balancing device. 3,036,468, 5–29–62, Cl. 73—486.

Anderson, Richard L., and M. J. O'Rourke, to International Business Machines Corp. Multiple junction semiconductor device fabrication. 3,046,459, 7–24–62, Cl. 317—235.

Anderson, Richard L., and M. J. O'Rourke, to International Business Machines Corp. P-N junction position determination. 3,067,387, 12–4–62, Cl. 324—158.

Anderson, Robert B. : *See*—
Tarrant, James H., and Anderson. 3,036,512.

Anderson, Robert E. Portable collapsible combination fisherman's seat, shelter, and toboggan. 3,017,194, 1–16–62, Cl. 280—18.

Anderson, Robert E., to Texas Instruments Inc. Mounting for silicon semiconductor device. 3,025,439, 3–13–62, Cl. 317—240.

Anderson, Robert E., to The Dow Chemical Co. Method for the purification of aminocarboxylic acids. 3,043,867, 7–10–

Anderson, Robert E., and W. A. Little, to Texas Instruments Inc. Diffused junction semiconductor device and method of making. 3,041,213, 6–26–62, Cl. 148—1.5.

Anderson, Robert E., and W. A. Little, to Texas Instruments Inc. Photo transistor. 3,043,725, 7–10–62, Cl. 148—1.5. 62, Cl. 260—5.8.

Anderson, Robert G. : *See*—
Drummond, Alan Y., Anderson, and Stuart. 3,024,195.
Drummond, Alan Y., Anderson, and Stuart. 3,024,237.
Kemp, Nicholas, and Anderson. 3,054,934.

Anderson, Robert G., F. A. Stuart, and A. Y. Drummond, to California Research Corp. Lubricating oil compositions containing metal dithiophosphate - N - dialkylaminoalkyl alkenyl succinimide blends. 3,018,247, 1–23–62, Cl. 252—32.7.

Anderson, Robert G., F. A. Stuart, and A. Y. Drummond, to California Research Corp. Lubricating oil compositions containing N-dialkylaminoalkyl alkenyl succinimides. 3,018,250, 1–23–62, Cl. 252—51.5.

Anderson, Robert G., F. A. Stuart, and A. Y. Drummond, to California Research Corp. N-dialkylaminoalkyl alkenyl succinimides. 3,018,291, 1–23–62, Cl. 260—326.5.

Anderson, Robert I. : *See*—
Schaefer, George E., Anderson, and Reineman. 3,027,190.

Anderson, Robert L., and G. E. Schaefer, to Brunswick Corp. Leg structure for skating. 3,024,066, 3–6–62, Cl. 297—248.

Anderson, Robert J., to General Aniline & Film Corp. Preparation of sulphonated maleic acid esters of improved color. 3,033,896, 5–8–62, Cl. 260—481.

Anderson, Robert L., to Thompson Ramo Wooldridge Inc. Method of making a permanent magnet rotor. 3,052,958 9–11–62, Cl. 29—155.53.

Anderson, Robert M. : *See*—
Vanden Boom, Robert F., and Anderson. 3,016,727.

Anderson, Robert M., to General Electric Co. Method of making a mount structure for flash lamps. 3,046,770, 7–31–62, Cl. 67—31.

Anderson, Robert M., and L. A. Demchock, Jr., to General Electric Co. Flash lamp and ignition means therefor. 3,041,862, 7–3–62, Cl. 67—31.

Anderson, Robert M., and L. A. Demchock, to General Electric Co. Flash lamp and ignition means therefor. 3,046,769, 7–31–62, Cl. 67—31.

Anderson, Robert V., to John E. Mitchell Co., Inc. Air conditioner blower control. 3,061,277, 10–30–62, Cl. 257—314.

Anderson, Roy N. Level with mirror. 3,064,535, 11–20–62, Cl. 88—94.

Anderson, Russell H. Power driven winding apparatus. 3,043,457, 7–10–62, Cl. 214—131.

Anderson, Samuel M. : *See*—
Kaprielian, Herbert A., and Anderson. 3,032,223.

Anderson, Sara H. Bath tub protective covers. 3,024,471, 3–13–62, Cl. 4—173.

Anderson, Sidney T., to The General Electric Co. Ltd. Supply arrangements for synchronous electric motors. 3,043,999, 7–14–62, Cl. 318—165.

Anderson, Signe A. Detachable buttons. 3,066,369, 12–4–62, Cl. 24—103.

Anderson, Stanley E. Stamp body and handle construction. 3,021,701 3–6–62, Cl. 101—405.

Anderson, Swan F. : *See*—
Anderson, Swan F., and Strombeck. 3,045,405.

Anderson, Swan F., ½ to R. F. Anderson, and ½ to S. F. Anderson. Packaging apparatus. 3,029,574, 4–17–62, Cl. 53—181.

Anderson, Swan F., and L. Strombeck, ½ to S. F. Anderson, and ½ to R. F. Anderson. Wrapping machine. 3,045,405, 7–24–62, Cl. 53—182.

Anderson, Tage O. : *See*—
Schwab, Helmut, Anderson, and Beale. 3,017,232.

Anderson, Thelma B.: *See*—
Baker, Reuben C. 3,054,450.
Anderson, Theodore H., and T. F. Flavin, and H. P. Wicklund, to International Business Machines Corp. Apparatus for guiding and stacking continuous forms. 3,037,768, 6–5–62, Cl. 270—73.
Anderson Tool & Mfg. Co.: *See*—
Johnson, Arthur F. 3,051,181.
Anderson, Victor C., to The Regents of the University of California. Digital phasing apparatus. 3,039,094, 6–12–62, Cl. 343—113.
Anderson, Victor F.: *See*—
Franzen, Earl P., and Anderson. 3,048,117.
Anderson, Victor M.: *See*—
Edwards, Huw B., and Anderson. 3,042,843.
Anderson, Vincent R., to Diamond Crystal Salt Co. Plastic dispensing container. 3,063,602, 11–13–62, Cl. 222—480.
Anderson, Vyron E., to Cedar Rapids Engineering Co. Valve grinding machines. 3,049,838, 8–21–62, Cl. 51—50.
Anderson, Vyron E. Engine boring stands. 3,053,119, 9–11–62, Cl. 77—4.
Anderson, W. Carl, and R. W. Lozier, to The Union Metal Mfg. Co. Lift truck scale mechanisms. 3,062,308, 11–6–62, Cl. 177—229.
Anderson, W. H.: *See*—
Rudolph, Robert R. 3,035,145.
Anderson, Walter A., to Underwood Corp. Tens transfer mechanism for an adding machine. 3,018,044, 1–23–62, Cl. 235—137.
Anderson, Walter A., to Underwood Corp. Control mechanism for an adding machine. 3,042,300, 7–3–62, Cl. 235—52.
Anderson, Walter J., to The Lowrey Organ Co. Electrical musical instrument coupling system. 3,068,735, 12–18–62, Cl. 84—1.17.
Anderson, Walter L., S. R. Snodey, and W. G. Welchman, to United States of America, Air Force. Radar navigation. 3,035,259, 5–15–62, Cl. 343—5.
Anderson, Walter R.: *See*—
Di Lorenzo, Bernard A., and Anderson. 3,027,465.
Anderson, Wilbur G., Jr., to Packaging Corp. of America. Tape dispenser. 3,047,138, 7–31–62, Cl. 206—52.
Anderson, William B. Submergible floating bait tank. 3,036,400, 5–29–62, Cl. 43—55.
Anderson, William D., W. O. Brandt, L. J. Le Clercq, and J. J. Fargo, to Gladding, McBean & Co. Method of making dense refractory objects. 3,016,598, 1–16–62, Cl. 25—156.
Anderson, William F., T. T. Shimazaki, A. M. Stelle, and D. R. Tellefson to United States of America, Atomic Energy Commission. Nuclear reactor fuel element. 3,029,198, 4–10–62, Cl. 204—193.2.
Anderson, William P., and J. W. Poole, to General Electric Co. O ring type pivot seal. 3,061,315, 10–30–62, Cl. 277—5.
Anderson, William S., to Shell Oil Co. Lubricating oil compositions. 3,052,630, 9–4–62, Cl. 252—37.2.
Anderson, William T., to The Do All Co. Method of making carbide tipped saw blade and other tools. 3,034,378, 5–15–62, Cl. 76—112.
Anderson, William W., and M. E. Hines, to Bell Telephone Laboratories, Inc. Slow-wave broadband nonreciprocal microwave devices. 3,051,908, 8–28–62, Cl. 330—5.
Andersson, Anders G. L. Soil sampling equipment. 3,042,124, 7–3–62, Cl. 175—20.
Andersson, Anders R., and P. T. Ågren, to Allmanna Svenska Elektriska Aktiebolaget. Insulated electrical conductors and process for producing same. 3,019,286, 1–30–62, Cl 174—121.
Andersson, Axel E., deceased; H. Lindberg, administrator. Fluid pressure operated mechanism for actuating the debarking tools of a debarking machine of the rotary-ring type. 3,053,294, 9–11–62, Cl. 144—208.
Andersson, Bengt L., to Nyby Bruks Aktiebolag. Electrolytic treatment of surfaces. 3,055,812, 9–25–62, Cl. 204—140.5.
Andersson, KarlGustav, to American Flange & Mfg. Co. Inc. Pouring spout construction for containers. 3,062,418, 11–6–62. Cl. 222—484.
Andersson, Nils V., to Landsverk, Aktiebolaget. Centrifuges. 3,056,505, 10–2–62, Cl. 210—369.
Andersson, Sven B.: *See*—
Conradi, Henrik, de Frumerie, and Andersson. 3,041,954.
Andes, Chester C. Sofa bed. 3,048,856, 8–14–62, Cl. 5—17.
Ando, Kiyoshi, to Akira Usui. Method of producing wire cord for heavy-duty rubber products. 3,064,414, 11–20–62, Cl. 57—162.
Ando, Koji: *See*—
Higuchi, Kozo, Tsuyuguchi, Osa, and Ando. 3,030,412.
Andonov, Christ. Multiple unit writing instrument. 3,023,-735, 3–6–62, Cl. 120—42.5.
Andrade, Roger C., to Eaton Mfg. Co. Tension control apparatus. 3,061,228, 10–30–62, Cl. 242—75.51.
Andras, Julius. Rocket with parachutes. 3,054,584, 9–18–62, Cl. 244—139.
Andrassy, Stella. Heater. 3,022,781, 2–27–62, Cl. 126—271.
Andrassy, Stella. Heater. 3,039,453, 6–19–62, Cl. 126—271.
Andre, Louis J. F., and R. G. Van Den Bossche, to International Standard Electric Corp. Mechanism for extracting a document out of a document carrier. 3,035,726, 5–22–62, Cl. 214—310.
Andre Rubber Co. Ltd.: *See*—
Hobson, Eric D. 3,017,898.
Andrea Radio Corp.: *See*—
Gautherin, George. 3,030,587.
Andreades, Sam, to E. I. du Pont de Nemours and Co. Alpha-fluoroalkyl nitrites and nitrates, omega-nitroso- and omega-nitroper-fluoroalkanoyl fluorides, and their preparation. 3,040,085, 6–19–62, Cl. 260—466.
Andreades, Sam, D. C. England, and R. V. Lindsey, Jr., to E. I. du Pont de Nemours and Co. Secondary fluoroalcohols, esters and process of making same. 3,030,409, 4–17–62, Cl. 260—488.
Andreani, Gianfranco. Apparatus for drawing and collecting textile fibres. 3,063,101, 11–13–62, Cl. 19—243.
Andreas, Norman D., to Bausch & Lomb Inc. Slide projector. 3,060,797, 10–30–62, Cl. 88—24.
Andreas, Norman D., and I. B. Lueck, to Bausch & Lomb Inc. Ophthalmoscope having adjustable lamp and cooling vents. 3,035,483, 5–22–62, Cl. 88—20.
Andreasen, Christian B., to Air-Shields, Inc. Lung ventilators and control mechanism therefor. 3,046,979, 7–31–62, Cl. 128—29.
Andreasen, Holger: *See*—
Carlsen, Helge. 3,041,563.
Andreasson, Per A., to Järnbirger Aktiebolag. Stretch devices. 3,060,983, 10–30–62, Cl. 145—33.
Andreasson, Rudolf W. Drill. 3,040,605, 6–26–62, Cl. 77—68.
Andreasson, Rudolf W. Drill. 3,045,513, 7–24–62, Cl. 77—68.
Andreasson, Rudolf W. Deep-hole drill and reamer. 3,055,-239, 9–25–62, Cl. 77—65.
Andreatch, Anthony J., and W. B. Innes, to American Cyanamid Co. Air pollution measurement. 3,027,241, 3–27–62, Cl. 23—254.
Andregg, Ernest R., to Bell Telephone Laboratories, Inc. Telephone pay station system. 3,048,660, 8–7–62, Cl. 179—6.3.
Andremont, Gilbert, to La Cotonniere de Moislains. Device for effecting high speed unreeling of bobbins in textile machines. 3,016,681, 1–16–62, Cl. 57—106.
Andren, Karl H., to Artos Engineering Co. Art of producing electrical conductors. 3,029,494, 4–17–62, Cl. 29—155.5.
Andren, Karl H., to Artos Engineering Co. Apparatus for producing electrical conductors. 3,032,860, 5–8–62, Cl. 29—33.51.
Andres, Cletus N., to Frank Adam Electric Co. Fuse switch. 3,056,870, 10–2–62, Cl. 200—114.
Andres, Eduard, to Metallwerk Glockerau G.m.b.H. Preselected aperture diaphragm mechanism. 3,052,173, 9–4–62, Cl. 95—64.
Andres, Karl-Heinz: *See*—
Bahr, Ulrich, Andres, and Braun. 3,027,349.
Andres, Nickolas, to Westinghouse Electric Corp. Thrust bearings. 3,044,839, 7–17–62, Cl. 308—160.
Andres, Ralph W.: *See*—
Crandall, Charles B., and Andres. 3,049,231.
Andres, Raymond J., to E. I. du Pont de Nemours and Co. Synthetic linear thermoplastic polyamides from dixylylene diamines. 3,036,047, 5–22–62, Cl. 260—78.
Andres, Raymond J., to E. I. du Pont de Nemours and Co. Polymer containing tertiary amino radical. 3,065,207, 11–20–62. Cl. 260—75.
Andres, William W.: *See*—
Holmlund, Chester E., and Andres. 3,043,877.
Andresen, Alf S., R. E. Gearing, and J. S. Beck. Safety screw thread arrangement. 3,062,568, 11–6–62, Cl. 285—333.
Andresen, Gilbert J. C., to The Goodyear Tire & Rubber Co. Method and apparatus for web thickness control. 3,016,-460, 1–9–62, Cl. 250—83.6.
Andresen, Hilmar A., to Gits Bros. Mfg. Co. Oil cup device. 3,020,979, 2–13–62, Cl. 184—91.
Andresen, Hilmar A., to Gits Bros. Mfg. Co. Oil cup and cover. 3,028,930, 4–10–62, Cl. 184—91.
Andresen, Hilmar A. and R. H., to R. J. Gits, Jr., E. W. Gits, and Mercantile National Bank of Chicago, co-trustees. Rotary face seal device with fluid director. 3,026,114, 3–20–62, Cl. 277—68.
Andresen, John H., Jr., to Kollsman Instrument Corp. Altitude control. 3,017,613, 1–16–62, Cl. 340—213.
Andresen, John H., Jr., to Kollsman Instrument Corp. Constant speed motor system. 3,018,429, 1–23–62, Cl. 318—312.
Andresen, John H., Jr., to Kollsman Instrument Corp. Take-off indicator for aircraft. 3,025,494, 3–13–62, Cl. 340—27.
Andresen, John H., Jr. Camera case for underwater photography. 3,036,506, 5–29–62, Cl. 95—11.
Andresen, John H., Jr., to Kollsman Instrument Corp. Auxiliary pressure monitor for cabin pressurization systems. 3,053,162, 9–11–62, Cl. 98—1.5.
Andresen, John H., Jr. Mask for divers with imperfect vision. 3,055,256, 9–25–62, Cl. 88—1.
Andresen, John H., Jr. Propulsion system for underwater divers. 3,066,638, 12–4–62, Cl. 115—6.1.
Andresen, Raymond A. Marine loading and unloading appa ratus. 3,047,016, 7–31–62, Cl. 137—615.
Andresen, Raymond H.: *See*—
Andresen, Hilmar A. and R. H. 3,026,114.
Andress, Harry J., Jr.: *See*—
Gee, Paul Y. C., and Andress. 3,034,876.
Gee, Paul Y. C., and Andress. 3,051,562.
Gee, Paul Y. C., and Andress. 3,068,083.

Andress, Harry J., jr, to Socony Mobil Oil Co., Inc. Fuel oil compositions containing high barium content complex salts of sulfonic acids. 3,031,284, 4–24–62, Cl. 44—76.

Andress, Harry J., jr, to Socony Mobil Oil Co., Inc. High barium content complex salts of sulfonic acids and petroleum fractions containing the same. 3,046,224, 7–24–62, Cl. 252—33.

Andress, Harry J., jr., and P. Y. C. Gee, to Socony Mobil Oil Co., Inc. Stabilized distillate fuel oil. 3,031,282, 4–24–62, Cl. 44—71.

Andress, Harry J., jr., and P. Y. C. Gee, to Socony Mobil Oil Co., Inc. N-substituted-alkenylsuccinimides in distillate fuels. 3,039,860, 6–19–62, Cl. 44—63.

Andress, Harry J., jr., and P. Y. C. Gee, to Socony Mobil Oil Co., Inc. Glycine alkenyl succinamic acids in distillate fuels. 3,039,861, 6–19–62, Cl. 44—71.

Andress, Harry J., jr., and P. Y. C. Gee, to Socony Mobil Oil Co., Inc. Stabilized distillate fuel oil. 3,046,102, 7–24–62, Cl. 44—71.

Andrew, Eugene A., and C. O. Williams, to Olin Mathieson Chemical Corp. Explosives. 3,037,417, 6–5–62, Cl. 86—1.

Andrew, Harold B., C. C. Hipkins, and L. M. Towsley, to Bell Telephone Laboratories, Inc. Magnetic record device and method of preparing it. 3,016,310, 1–9–62, Cl. 117—104.

Andrew, Herbert F., to Imperial Chemical Industries Ltd. Diazo dyes containing a dihalogeno triazine substituent. 3,038,893, 6–12–62, Cl. 260—146.

Andrew, Herbert F., and A. Mee, to Imperial Chemical Industries Ltd. New azo dyestuffs. 3,036,058, 5–22–62, Cl. 260—146.

Andrew, Herbert F., W. E. Stephen, and C. G. Tilley, to Imperial Chemical Industries Ltd. Dichloro trazinylflower alkyl) amino naphtholazo-phenyl disazo dyestuffs and the 1:1 copper complexes thereof. 3,057,844, 10–9–62, Cl. 260—146.

Andrew, Herbert F., and A. Mee, to Imperial Chemical Industries Ltd. Metallized disazo dyes containing a monochlorotriazine substituent. 3,057,846, 10–9–62, Cl. 260—146.

Andrew, Homer L., to Duplex Mfg. Co. Annular buried pressure tank and system. 3,065,697, 11–27–62, Cl. 103—1.

Andrew, Homer L., to Duplex Mfg. Co. Annular liquid pressure tank with annular separator float. 3,065,698, 11–27–62, Cl. 103—1.

Andrew, Margaret J., to General Motors Corp. Domestic fabric washing machine. 3,021,700, 2–20–62, Cl. 68—4.

Andrew, Margaret J., to General Motors Corp. Dish rack for domestic appliance. 3,040,901, 6–26–62, Cl. 211—41.

Andrew, Marvin W. Poultry house dropping pit cleaner. 3,033,348, 5–8–62, Cl. 198—82.

Andrew, Norman K., and H. E. Metcalf, to Johnston Testers, Inc. Well tools for subsurface flow control. 3,051,245, 8–28–62, Cl. 166—226.

Andrew, Vaughan L., to Duplex Mfg. Co. Well construction and method of assembling the same. 3,065,792, 11–27–62, Cl. 166—46.

Andrews, Aaron A. Sun shade for automobile windows. 3,025,098. 3–13–62, Cl. 296—97.

Andrews, Albert H., Jr. Oxygen tent. 3,050,058, 8–21–62, Cl. 128—191.

Andrews, Alvadore M. Method and apparatus for joining together sheets of plastic material. 3,065,121, 11–20–62, Cl. 156—201.

Andrews, Anatol N. Automatic telephone operating device. 3,038,967, 6–12–62, Cl. 179—5.1.

Andrews, Arthur, to American Cyanamid Co. Shielding panel with wire embedment. 3,030,435, 4–17–62, Cl. 174—35.

Andrews, Benjamin. Cylindrical container. 3,032,228, 5–1–62, Cl. 220—4.

Andrews, Carroll A., and D. G. Fugere. Information transfer matrix. 3,054,986, 9–18–62, Cl. 340—172.5.

Andrews, Charles H.: *See*—
Corey, Nicholas, and Andrews. 3,070,134.

Andrews, Dallas R., to Radio Corp. of America. Recording and reproducing apparatus. 3,027,110, 3–27–62, Cl. 242—55.13.

Andrews, Dallas R., and E. S. Maris, Sr., to Radio Corp. of America. Magnetic recording and reproducing equipment. 3,027,109, 3–27–62, Cl. 242—55.12.

Andrews, Daniel E., Jr. Electroacoustic piezoelectric-paste transducer. 3,070,775, 12–25–62, Cl. 340—10.

Andrews, David B., and G. L. Meyers, to American Can Co. Tamperproof carton. 3,037,684, 6–5–62, Cl. 229—45.

Andrews, Edward F. Means and method for vapor and frog generation. 3,037,939, 6–5–62, Cl. 252—305.

Andrews, Edwin R.: *See*—
Allen, Robert E., Andrews, Schumann, and Tilford. 3,031,449.

Andrews, Ernest G., to Bell Telephone Laboratories, Inc. Magnetic storage circuits. 3,050,716, 8–21–62, Cl. 340—174.

Andrews, Floyd A., to Minneapolis-Honeywell Regulator Co. Fuel gauge apparatus. 3,029,641, 4–17–62, Cl. 73—291.

Andrews, Fred O.: *See*—
Gray, Homer, and Andrews. 3,036,371.

Andrews, Jack M., H. G. Cornell, N. P. Peet, and W. K. Roquemore, to Esso Research and Engineering Co. Cracking of hydrocarbons. Re. 25,220, 8–7–62, Cl. 208—120.

Andrews, John C. Structural unit for constructing a tank or the like. 3,064,770, 11–20–62, Cl. 189—3.

Andrews, John L., to General Electric Co. Cooking appliances. 3,017,489, 1–16–62, Cl. 219—37.

Andrews, Ladimer J., to The National Cash Register Co. Digital indicator circuitry. 3,017,102, 1–16–62, Cl. 235—176.

Andrews, Ladimer J., W. G. Edwards, and J. F. Hudson, to The National Cash Register Co. Magnetic core logical circuitry. 3,040,986, 6–26–62, Cl. 235—176.

Andrews, Mark B. Method of making laminated tape. 3,051,604, 8–28–62, Cl. 156—152.

Andrews, Mark B., and W. J. Burke, to Roll-O-Sheets, Inc. Roll dispenser. 3,045,883, 7–24–62, Cl. 225—90.

Andrews, Maxwell C.: *See*—
Hopner, Emil, and Andrews. 3,069,506.

Andrews, Paul C. Adjustable slide assembly for vehicle wheel load balance. 3,044,796, 7–17–62, Cl. 280—81.

Andrews, Steve, and F. C. Spraitzar, to United States Steel Corp. Apparatus for stencilling pipe. 3,020,878, 2–13–62, Cl. 118—301.

Andrews, Thomas I., to Durant Insulated Pipe Co. Apparatus for manufacturing pipe insulation. 3,039,140, 6–19–62, Cl. 18—6.

Andrews, Troy M.: *See*—
Montermoso, Juan C., Marinelli, and Andrews. 3,016,369.

Andrews, Walter U.: *See*—
Garvey, Mark J., and Andrews. 3,049,293.

Andrieux, Jean L., and R. Peffen. Aluminothermic process of making boron, boron compounds and alloys. 3,016,288, 1–9–62, Cl. 23—204.

Andrikides, Anthony L., to Norco Products Co., Inc. Separation and purification of fatty alcohols. 3,028,435, 4–3–62, Cl. 260—643.

Antell, Everett H., to Fawick Corp. Creep drive control. 3,058,562, 10–16–62, Cl. 192—106.

Andrus, Orrin E., to A. O. Smith Corp. Apparatus for removing dissolved oxygen from water. 3,052,527, 9–4–62, Cl. 23—288.

Andrus, Orrin E., to A. O. Smith Corp. Multi-layer vessel having a heat transfer material disposed between layers. 3,062,507, 11–6–62, Cl. 257—212.

Andrycha, Joseph J., and T. H. Speller, to General Riveters, Inc. Rivet feeding apparatus. 3,069,938, 12–25–62, Cl. 78—48.

Andrzejewski, Matthew S.: *See*—
Polanin, Walter R., and Andrzejewski. 3,040,843.

Audubert, Rene, and H. de Lacheisserie, to Societe d'Electro-Chimie d'Electro-Metallurgie et des Acieries Electriques d'Ugine. Electrolytic preparation of iron powder. 3,041,253, 6–26–62, Cl. 204—10.

Anelex Corp.: *See*—
Berger, Ralph, and Harlow. 3,016,008.

Anello, Louis G., J. Gordon, and C. Woolf, to Allied Chemical Corp. Nitrosyl fluoride as a fluorinating agent. 3,062,902, 11–6–62, Cl. 260—653.8.

Anemostat Corp. of America: *See*—
Phillips, Leonard R. 3,033,097.

Anfenger, Eli, and B. M. Gordon, to Epsco, Inc. Signal translating system. 3,034,719, 5–15–62, Cl. 235—154.

Ang, Choh-Yi, and E. W. Burkhammer, to P. R. Mallory & Co., Inc. Electric contacts of high arc erosion resistance and method of making the same. 3,045,331, 7–24–62, Cl. 29—182.

Angeid, Egil: *See*—
Hansson, Hugo, Petterson, and Angeid. 3,068,458.

Angel, Richard R., to Phillips Petroleum Co. Lubricator for rock bit. 3,048,230, 8–7–62, Cl. 175—228.

Angel, Richard R., and G. S. Boudreaux, to Phillips Petroleum Co. Reverse opening circulating sub. 3,025,919, 3–20–62, Cl. 175—317.

Angele, Wilhelm, and D. B. Horton, to United States of America, National Aeronautics and Space Administration. Instrument support with precise lateral adjustment. 3,069,123, 12–18–62, Cl. 248—346.

Angelery, Henry W. Noise suppressor for pressure reducing valves. 3,036,656, 5–29–62, Cl. 181—58.

Angelica Uniform Co.: *See*—
Loewe, Leslie F. 3,066,307.

Angeline, John F.: *See*—
Margolin, Stanley V., Bowen, Angeline, and Laffert. 3,062,629.

Angelini, Francesco: *See*—
Palazzo, Giuseppe. 3,061,634.

Angell, Elvin D.: *See*—
Weintraub, Murray, and Angell. 3,034,905.

Angell, James B.: *See*—
Angell, Robert C., and Uhler. 3,059,970.

Angell, Pierce T., and R. Ciborn, to Thompson Ramo Wooldridge Inc. Turbine nozzle and rotor arrangement. 3,062,498, 11–6–62, Cl. 253—78.

Angell, Robert C., deceased (by James B. Angell) and W. P. Uhler, to The S. S. White Dental Mfg Co. Chairs having tilting backs. 3,059,970, 10–23–62, Cl. 297—353.

Angello, Stephen J. Semiconductor alloys and method of preparing the same. 3,058,854, 10–16–62, Cl. 148—1.6.

Angelo, Charles W. Under-carriage for containers. 3,023,019, 2–27–62, Cl. 280—35.

Angelucci, Louis J., jr., to Philco Corp. Method of manufacturing electrical apparatus. 3,054,672, 9–18–62, Cl. 96—35.

Angenieux, Pierre, to Eastman Kodak Co. Automatic control device for lens diaphragm. 3,057,279, 10–9–62, Cl. 95—64.

Anger, Douglas G.: *See*—
Wechter, William J., and Anger. 3,061,618.

Anger, Ernest G., and D. L. Pettit, to Square D Co. Motor control system. 3,050,670, 8–21–62, Cl. 318—72.

Anheuser-Busch, Inc.: *See*—
Ehrenthal, Irving, and Block. 3,067,066.

Anghinetti, Joseph R.: *See*—
Polansky, Raymond, and Anghinetti. 3,052,570.

Angier, James F., to Structural Electric Products Corp. Runway light. 3,015,717, 1–2–62, Cl. 240—1.2.

Anglo American Corp. of South Africa Ltd.: *See*—
Blair, Robert. 3,069,140.

Anglo-Transvaal Consolidated Investment Co. Ltd.: *See*—
Van Wyk, Christiaan F. B., and Fairon. 3,067,895.

Angst, Gustave, and A. F. Lukens, to General Electric Co. Synchronous reluctance rotor. 3,047,755, 7–31–62, Cl. 310—162.

Angstadt, Glenn J. Expendable shipping container and baby food jar holder. 3,028,043, 4–3–62, Cl. 220—102.

Angus, Ernest T., and D. F. Walker, to Ferranti, Ltd. Direct current tachometer generators. 3,039,040, 6–12–62, Cl. 322—94.

Angus, George, & Co. Ltd.: *See*—
Balkin, Mark, and Turner. 3,031,357.

Angus, James W., to Kollsman Instrument Corp. Return mechanism for fail safe instruments. 3,043,580, 7–10–62, Cl. 267—1.

Angus, Leonard J., to A. Kimball Co. Hand remarkers. 3,024,724, 3–13–62, Cl. 101—110.

Anheuser-Busch, Inc.: *See*—
Chatten, Victor H. 3,065,885.
Curtin, Richard L., Sowell, and Scallet. 3,066,036.
Curtin, Richard L., Sowell, and Scallet. 3,066,037.
Ellis, Nicholas D., and Solomon. 3,032,185.
Schwaiger, Frank H., Gadsby, and J. Schwaiger. 3,033,762.

Anicetti, Robert J.: *See*—
Hauth, Joseph J., and Anicetti. 3,067,117.

Animation Equipment Corp., The: *See*—
Hartnett, John J. 3,044,350.
Oxberry, John W. 3,040,619.

Anjac Mfg. Co.: *See*—
Banner, Joseph. 3,033,285.

Ankarlo, Victor E. Flow stopping apparatus for gas mains. 3,019,819, 2–6–62, Cl. 138—93.

Anke, Klaus, C. Kessler, and D. Ströle, to Siemens-Schuckertwerke Aktiengesellschaft. Analog computer for experimental investigation of control and regulating systems. 3,044,704, 7–17–62, Cl. 235—184.

Anke, Rudolph, to Textile Machine Works. Method of knitting selvaged fabric. 3,030,787, 4–24–62, Cl. 66—127.

Anker-Phoenix-Nahmaschinen Aktiengesellschaft: *See*—
Adam, Hermann. 3,054,369.
Broedner, Ernst. 3,031,990.
Engel, Wolfgang. 3,025,812.
Engel, Wolfgang. 3,043,252.
Engel, Wolfgang, and Baumotte. 3,031,989.
Klaar, Albert, and Wank. 3,055,324.
Knobloch, Friedrich. 3,019,749.
Wank, Otto, and Theenhausen. 3,043,253.

Anker-Werke Aktiengesellschaft: *See*—
Becker, Gerhard. 3,056,547.
Becker, Gerhard. 3,061,184.
Becker, Gerhard. 3,066,861.
Becker, Gerhard, and Borgmann. 3,049,288.
Becker, Alfred. 3,015,435.

Ankersen, Borge R. Furnaces. 3,031,176, 4–24–62, Cl. 263—33.

Annechiarico, Ernest J.: *See*—
Lucanera, Constantino, Kolinsky, and Annechiarico. 3,040,319.

Anner, Georg: *See*—
Jeger, Oskar, Arigoni, Anner, Meystre, and Wettstein. 3,040,040.
Reichstein, Tadeus, Wettstein, Anner, Billeter, Heusler, Neher, Schmidlin, Ueberwasser, and Wieland. 3,033,858.
Reichstein, Tadeus, Wettstein, Anner, Billeter, Heusler, Neher, Schmidlin, Ueberwasser, and Wieland. 3,035,049.
Wettstein, Albert, and Anner. 3,048,606.
Wettstein, Albert, Anner, and Ehmann. 3,060,174.
Wettstein, Albert, Anner, Heusler, Kalvoda, and Ueberwasser. 3,067,198.
Wettstein, Albert, Anner, Heusler, and Wieland. 3,056,779.
Wettstein, Albert, Anner, and Kebrle. 3,055,887.
Wettstein, Albert, Anner, Meystre, Wieland, Ehmann, Heusler, Hunger, and Kebrle. 3,026,340.
Wettstein, Albert, Anner, Meystre, Wieland, Ehmann, Heusler, Hunger, and Kebrle. 3,033,881.
Wettstein, Albert, Anner, Meystre, Wieland, Ehmann, Heusler, Hunger, and Kebrle. 3,040,072.

Annese, Russell W., and F. H. Huelsbeck, to Diamond National Corp. Machine for dispensing and setting up collapsed cartons. 3,027,815, 4–3–62, Cl. 93—53.

Anniss, Charles H., and A. Z. Kiss, to United Shoe Machinery Corp. Heating apparatus for shoemaking. 3,030,484, 4–17–62, Cl. 219—19.

Annunziato, Anthony A.: *See*—
Tava, Alben J., Adams, and Annunziato. 3,059,229.

Anocut Engineering Co.: *See*—
Williams, Lynn A. 3,017,340.
Williams, Lynn A. 3,019,178.
Williams, Lynn A. 3,041,265.
Williams, Lynn A. 3,043,766.
Williams, Lynn A. 3,058,895.

Anritsu Electronic Works Ltd.: *See*—
Ueno, Isaburo. 3,015,534.

Ansar, Anders, to The Garrard Engineering and Mfg. Co. Ltd. Arrangement in a record-changing gramophone. 3,023,008, 2–27–62, Cl. 274—10.

Anschutz, Rolf: *See*—
Prohaska, Hans, Anschutz, and Blucher. 3,053,337.

Ansel, Hermann: *See*—
Dürr, Walter, and Ansel. 3,033,276.

Ansell, Sidney C., R. H. Booth, R. Brown, D. P. Franklin, and W. C. Rayward, to Electric & Musical Industries Ltd. Interpolating device. 3,056,916, 10–2–62, Cl. 323—43.5.

Anslow, James R., to Jefferson Chemical Co., Inc. Salt of piperazine. 3,019,225, 1–30–62, Cl. 260—268.

Anslow, James R., to Jefferson Chemical Co., Inc. Piperazine sulfite. 3,046,277, 7–24–62, Cl. 260—268.

Anson, Inc.: *See*—
Anderson, Olof V. 3,049,772.

Ansonia Wire & Cable Co., The: *See*—
Lunt, Alden P., and Anderson. 3,026,924.

Anspach, Charles R.: *See*—
Schweitzer, Roy C., and Anspach. 3,016,977.

Anspon, Harry D., to General Aniline & Film Corp. Preparation of a foamed methyl chloroacrylate polymer. 3,028,343, 4–3–62, Cl. 260—25.

Anspon, Harry D., to United States Rubber Co. Isopropyl bromotrinitropropyl ether. 3,038,946, 6–12–62, Cl. 260—614.

Anspon, Harry D., to United States Rubber Co. Bromotrinitropentanone. 3,041,379, 6–26–62, Cl. 260—593.

Anstalt Für Die Entwicklung Von Erfindungen und Gewerblichen Anwendungen Energa: *See*—
Brandt, Edgar W. 3,064,577.

Anstalt fur Montage-Technik: *See*—
Hilti, Martin. 3,058,116.

Anstett, Edgar P. Spring retainer clip and assembly thereof. 3,038,596, 6–12–62, Cl. 206—56.

Anstett, Edgar P. Method of blanking a nail from sheet stock. 3,056,982, 10–9–62, Cl. 10—34.

Anston, George. Gravitational power generator. 3,028,727, 4–10–62, Cl. 60—8.

Ansul Chemical Co.: *See*—
Forrester, Clyde, and Paus. 3,061,014.
Paus, Robert L., and Forrester. 3,016,097.
Sievert, James A. 3,042,117.
Sprague, Milton A. 3,050,608.
Stevens, George D., and Neuville. 3,056,670.
Warnock, William R., Lindlof, and Hemminger. 3,055,435.
Zellner, Robert J., and Johnson. 3,031,511.

Antell, Frederick G.: *See*—
Antell, Robert A. 3,015,164.

Antell, Raymond E.: *See*—
Antell, Robert A. 3,015,164.

Antell, Robert A., ⅛ to F. G. Antell, and ⅛ to R. E. Antell. Devices and method for laying out skirtboards. 3,015,164, 1–2–62, Cl. 33—102.

Antelo, Rodolfo B. Heel structure for shoes. 3,068,592, 12–18–62, Cl. 36—36.

Antenna Engineering Laboratories: *See*—
Boyer, Joseph M. 3,022,507.

Antenna Systems, Inc.: *See*—
Hagaman, Boynton G. 3,068,478.

Antes, Jack E.: *See*—
Bertram, Joseph J., and Antes. 3,031,638.

Antes, Leland L., to United States of America, Air Force. Process for making cadmium sulfide photo-conducting articles. 3,065,515, 11–27–62, Cl. 25—157.

Anthony, Benjamin F., to Oglebay Norton Co. Bottom rings for composite log tops. 3,063,111, 11–13–62, Cl. 22—147.

Anthony Co.: *See*—
Mathers, Robert V., and Novotney. 3,065,869.
McManus, Frank C. 3,039,822.
McManus, Frank C. 3,044,832.
Novotney, Frank A. 3,065,868.

Anthony, Gilbert C., and F. A. Boyer, to International Business Machines Corp. Position sensing system. 3,059,120, 10–16–62, Cl. 250—220.

Anthony, Harry L., III, and G. K. Bhat, to Wilson Brothers Alloy steels. 3,068,095, 12–11–62, Cl. 75—126.

Anthony, Jay D., to Screw and Bolt Corp. of America. Self-locking threaded fastener. 3,061,455, 10–30–62, Cl. 117—37.

Anthony, Myron L.: *See*—
Adler, Robert, and Anthony. 3,038,960.

Anthony, Myron L., to P. G. S. Mero. Discriminators. 3,024,419, 3–6–62, Cl. 329—103.

Anthony, Russel W., to National Broach & Machine Co. Apparatus for machining surfaces of gear teeth. 3,060,811, 10–30–62, Cl. 90—1.6.

Anthony, Russel W., and J. M. Beckman, Jr., to National Broach & Machine Co. Gear sorting machine. 3,064,809, 11–20–62, Cl. 209—88.

Anthony, Russell F., to Massey-Ferguson Ltd. Door panel. 3,067,814, 12–11–62, Cl. 160—235.

Anthony, Thomas: *See*—
Gerard, Raymond T., and Anthony. 3,060,126.

Anthony, William C.: *See*—
Heinzelman, Richard V., Lyttle, and Anthony. 3,026,325.
Szmuszkovicz, Jacob, and Anthony. 3,022,313.
Szmuszkovicz, Jacob, and Anthony. 3,023,221.

Anthony, William H., to The National Cash Register Co. Method of manufacturing microscopic capsules having walls of alcohol-fractionated gelatin. 3,041,288, 6–26–62, Cl. 252—316.

Anti, Arthur W.: *See*—
Anderson, Edward E., and Anti. 3,023,108.

Anti-Friction Hull Corp.: *See*—
Priest, Robert W. 3,027,860.

Antioch College: *See*—
Asakawa, George, and Vernet. 3,016,691.
Eskin, Samuel G. 3,053,092.
Pressel, Earl L., and Vernet. 3,035,444.
Vernet, Sergius. 3,016,747.
Vernet, Sergius. 3,064,477.
Vernet, Sergius, and Asakawa. 3,059,475.

Antler, Morton, to Ethyl Corp. Lubricant composition. 3,036,972, 5–29–62, Cl. 252—49.7.

Antler, Morton, to Ethyl Corp. Lubricant compositions. 3,058,912, 10–16–62, Cl. 252—49.7.

Antler, Morton, to Ethyl Corp. Lubricant compositions. 3,063,943, 11–13–62, Cl. 252—46.4.

Antognini, Joe: *See*—
Tilles, Harry, and Antognini. 3,066,020.

Antoine, Ronald J., to Twin City Automatic, Inc. Spray attachment for water skis and the like. 3,052,899, 9–11–62, Cl. 9—310.

Antolino, Michael R., to The Okonite Co. Method of and apparatus for curing thermosetting materials. 3,024,492, 3–13–62, Cl 18—6.

Anton, Nicholas. Radiation dosimeter. 3,022,424, 2–20–62, Cl. 250—83.6.

Antoniades, Basil, to United States of America, Army. Mesh support assembly for a pickup tube. 3,069,586, 12–18–62, Cl. 313—348.

Antonides, Harold J., to Armour-Pharmaceutical. Gastric resistant medicinal preparation. 3,065,142, 11–20–62, Cl. 167—82.

Antonoff, Walter, to Universal Controls, Inc. Means for breaking a jam of coins in motor-driven, fare-collecting apparatus. 3,018,868, 1–30–62, Cl. 194—9.

Antonoff, Walter, and G. L. Grant, to Universal Controls, Inc. Coin separator for fare boxes and the like. 3,037,604, 6–5–62, Cl. 194—9.

Antognini, Rudolph, J. M. Bradley, and R. D. Beattie, to Cabot Corp. Process and apparatus for the production of finely-divided pigments. 3,068,089, 12–11–62, Cl. 75—.5.

Antonson, Earl C.: *See*—
Erisman, Maurice J., Francis, and Antonson. 3,050,868.

Antonucci, Canadio: *See*—
Pizzarotti, Pietro, Antonucci, and Leoncini. 3,069,983.

Antor Petroles de l'Atlantique, Societe: *See*—
Ouvrard, Paul. 3,060,318.

Antoszewski, Eugeniusz, and E. Paddison, to The English Electric Co. Ltd. Electric protective relays using double rectified bridge comparators. 3,048,746, 8–7–62, Cl. 317—32.

Antoszewski, Walter J., and R. A. Kurtz, to Owens-Illinois Glass Co. Apparatus for gauging glassware. 3,065,549, 11–27–62, Cl. 33—178.

Antranikian, Haig V. Bandwidth reduction system. 3,059,050, 10–16–62, Cl. 178—7.1.

Antrim Moulding Co., Inc.: *See*—
Caughey, Robert A. 3,044,111.

Antunez, Armand E., Jr. Float-operated valve. 3,070,118, 12–25–62, Cl. 137—436.

Aoi, Saburo, and N. Murata, to Oki Electric Industry Co., Ltd. Cathodes for electron tube and a manufacturing method thereof. 3,070,550, 12–25–62, Cl. 252—521.

Aoki, Kintaro: *See*—
Ota, Kihachiro, and Aoki. 3,035,787.

Aoki, Kunio. Licker-in in a carding engine. 3,064,316, 11–20–62, Cl. 19—105.

Aoki, Shigeru: *See*—
Sensui, Nobuo, and Aoki. 3,022,863.

Aoki, Takeshi, to Fujiya Electric Co., Ltd. Phonographic apparatus. 3,065,972, 11–27–62, Cl. 274—9.

Aoyagi, Suesaburo. Needle grinding attachment for sewing machines. 3,022,612. 2–27–62, Cl. 51—256.

Apatoff, William, and E. C. Glasser, to The Polyoptic Corp. Display device. 3,056,019, 9–25–62, Cl. 240—10.1.

Apco, Inc.: *See*—
Hill, James J. 3,021,035.

Apel, Francis N., L. B. Conte, and H. L. Bender, to Union Carbide Corp. Preparation of bisphenols. 3,049,568, 8–14–62, Cl. 260—619.

Apel, Francis N., P. Farevaag, and H. L. Bender, to Union Carbide Corp. Production of 2,2-bis(4-hydroxyphenyl) propane. 3,049,569, 8–14–62, Cl. 260—619.

Apel, John H., and R. J. Beeson, to The Jaeger Machine Co. Hydraulically operated pavement finishing machine. 3,015,-257. 1–2–62, Cl. 94—45.

Apel, John H., and R. J. Beeson, to The Jaeger Machine Co. Paving material spreader. 3,015,258, 1–2–62, Cl. 94—46.

Apel, John H., and R. J. Beeson, to The Jaeger Machine Co. Paving material spreader. 3,015,259, 1–2–62, Cl. 94—46.

Apel, John H., and R. J. Beeson, to The Jaeger Machine Co. Screed unit and suspending means. 3,051,062, 8–28–62, Cl. 94—45.

Apelbaum, Joseph H.: *See*—
Dudley, Kenneth W., and Apelbaum. 3,018,404.

Apelbaum, Joseph H., and W. L. O'Brien, to Raytheon Co. Impregnated cathodes. 3,045,320, 7–24–62, Cl. 29—25.18.

Apex Smelting Co.: *See*—
Colwell, Donald L. 3,019,101.

Apfelbeck, Otto L., and W. Calfee, to Westinghouse Electric Corp. Automatic paralleling system. 3,069,556, 12–18–62, Cl. 307—87.

Apitz, Gerhard, to Heidenreich & Harbeck. Method for continuously generating bevel gears with straight teeth. 3,020,808, 2–13–62, Cl. 90—5.

Aplin, Dennis C., to Speed Selector Inc. Variable speed drive mechanisms. 3,064,486, 11–20–62, Cl. 74—230.17.

Apodaca, Albert R., and N. J. Griswold, to Aerojet-General Corp. Igniter. 3,054,351, 9–18–62, Cl. 102—70.

Apotheker, David, to E. I. du Pont de Nemours and Co. Improved asphalt compositions. 3,026,280, 3–20–62, Cl. 260—28.5.

Apothéloz, Robert, and H. Dubach, to Machine Tool Works Oerlikon, Administration Co. Fuze for rocket projectiles. 3,034,438, 5–15–62, Cl. 102—78.

Appalachian Electronic Instruments Inc.: *See*—
Nickell, Lawrence C. 3,046,767.

Apparatenfabriek Plaisier, N.V.: *See*—
Mustert, Rudolf. 3,018,438.

Appareillage Electrique Hazemeyer: *See*—
Fruh, Albert. 3,067,400.

Appareils de Precision "Kinoptik," Les: *See*—
Hughes, Edgard. 3,037,426.

Appel, Gerhard H., to Appel Process, Ltd. Forming tools, machines and methods. 3,017,793, 1–23–62, Cl. 78—103.

Appel, Gerhard H., to Appel Process, Ltd. Methods for relieving stresses in and straightening tubular workpieces. 3,035,340, 5–22–62, Cl. 29—544.

Appel, Gerhard H., to Appel Process, Ltd. Rotary forging machine. 3,059,510, 10–23–62, Cl. 78—21.

Appel, Mel: *See*—
Schnur, Martin, and Appel. 3,028,070.

Appel Process, Ltd.: *See*—
Appel, Gerhard H. 3,017,793.
Appel, Gerhard H. 3,035,340.
Appel, Gerhard H. 3,059,510.

Appeldorn, Roger H.: *See*—
Kotz, Arthur R., Appeldorn, Grieshaber, Peterson, and Giorgini. 3,056,904.

Appell, George T., to Liberty Folder Co. Adjustable roller hanger for paper folding machines. 3,021,134, 2–13–62, Cl. 270—68.

Appelt, Edna. Carrier assembly. 3,025,948, 3–20–62, Cl. 206—4.

Appenzeller, Valentin: *See*—
Küsters, Eduard, and Appenzeller. 3,046,637.

Appenzeller, Valentin, to E. Küsters. Roller assemblies for the pressure treatment of materials. 3,043,211, 7–10–62, Cl. 100—170.

Appenzeller, Valentin, to Eduard Kusters Maschinenfabrik. Pressure applying rollers. 3,050,829, 8–28–62, Cl. 29—116.

Apperson, Lester D., and A. W. Bouchal, to Colgate-Palmolive Co. Fluoride dentifrice with insoluble alkali metal metaphosphate and aluminum compound polishing material. 3,034,967, 5–15–62, Cl. 167—93.

Appius, Max K., to E. Mettler. Reading device on a balance. 3,026,768, 3–27–62, Cl. 88—24.

Appius, Max K., to E. Mettler. Balance. 3,026,954, 3–27–62, Cl. 177—248.

Applebaum, M. Lawrence: *See*—
Efram, Rudolph H., Applebaum, and Henry. 3,022,891.

Applebaum, Stanley E., to General Electric Co. Frequency scanning filter arrangement. 3,026,475, 3–20–62, Cl. 324—77.

Applebaum, Stanley J.: *See*—
Donahue, Robert J., and Applebaum. 3,056,545.

Appleby, Paul E., to The Goodyear Tire & Rubber Co. Tire stitching apparatus. 3,047,048, 7–31–62, Cl. 156—410.

Applefield, William G., to Hycon Mfg. Co. Sweep circuit. 3,017,629, 1–16–62, Cl. 343—5.

Applegate, Leslie T., Jr., and H. E. Lewis, to Surgical Appliance Industries, Inc. Football glove. 3,037,209, 6–5–62, Cl. 2—20.

Applegate, Lindsay M. Muffling tubes. 3,054,474, 9–18–62, Cl. 181—67.

Applegate, Rex. Sectional boat. 3,023,431, 3–6–62, Cl. 9—2.

Applegate, Robert D. Continuous drier. 3,053,522, 9–11–62, Cl. 263—30.

Appleman, William S., to Young Spring & Wire Corp. Refuse handling vehicle. 3,063,586, 11–13–62, Cl. 214—302.

Appleton, Arthur I. Pulling elbow. 3,020,332, 2–6–62, Cl. 174—72.

Appleton, Arthur I. High pressure fitting for flexible conduits. 3,030,129, 4–17–62, Cl. 285—248.

Appleton, Arthur I. Fitting for flexible conduit. 3,030,130, 4–17–62, Cl. 285—248.

Appleton, Arthur I. Take-up reel. 3,040,139, 6–19–62, Cl. 191—12.2.

Appleton, Arthur I. Rail anchor. 3,044,708, 7–17–62, Cl. 238—317.

Appleton, Arthur I. Plug and receptacle connector. 3,046,-515, 7–24–62, Cl. 339—111.

Appleton, Arthur I. Automatic fish feeder. 3,050,029, 8–21–62, Cl. 119—51.13.

Appleton, Arthur I. Fluid-tight electrical connector. 3,055,-683, 9–25–62, Cl. 285—158.

Appleton, Bernard S., and J. J. Jenkins, to G.M.E. Corp. Flush deck hatch covers. 3,043,257, 7–10–62, Cl. 114—202.

Appleton, David B., and B. D. Butts, to Texas Instruments Inc. Condition-responsive control device. 3,031,565, 4–24–62, Cl. 219—44.
Appleton Electric Co. : *See*—
Appleton, Norton A. 3,039,717.
Appleton, Norton A. 3,065,925.
Appleton Mills : *See*—
Mizell, Louis R. 3,030,690.
Appleton, Norman J. : *See*—
Welsh, Herbert F., Appleton, and Silverberg. 3,021,512.
Appleton, Norman J., to General Precision, Inc. Alpha-numerical display means. 3,020,531, 2–6–62, Cl. 340—324.
Appleton, Norton A., to Appleton Electric Co. Locking device for take-up reel. 3,039,717, 6–19–62, Cl. 242—107.7.
Appleton, Norton A., to Appleton Electric Co. Take-up reel. 3,065,925, 11–27–62, Cl. 242—107.5.
Applications Scientifiques, Techniques, Industrielles et Commerciales A.S.T.I.C. (Societe Anonyme Monegasque) : *See*—
Launay, Jean J. 3,023,862.
Applicazione Lavorazione Di Basi Oleochimiche S.p.A. : *See*—
Chiabotti, Cesare. 3,030,675.
Applicazioni Gomma Antivibranti S.A.G.A., S.p.A., Societe : *See*—
Poschi, Antonio. 3,051,469.
Applied Development Corp. : *See*—
Schwab, Helmut, Anderson, and Beale. 3,017,232.
Applied Physics Corp. : *See*—
Cary, Henry H. 3,022,704.
Cary, Henry H., and Hawes. 3,025,746.
Applied Power Industries, Inc. : *See*—
Atherton, Neil F. 3,041,886.
Atherton, Neil F. 3,059,683.
Atherton, Neil F., and Johnston. 3,041,975.
Butorac, John R. 3,042,006.
Colgan, William L. 3,045,653.
Hare, Richard C. 3,048,978.
Joers, William F. 3,059,334.
Luedicke, Alex H., Jr., and Chapman. 3,026,925.
Apra Precipitator Corp. : *See*—
Klemperer, Hans. 3,049,848.
Rodger, James. 3,046,716.
Apstein, Maurice, to United States of America, Army. Multiple detonator operation. 3,028,809, 4–10–62, Cl. 102—70.2.
Apstein, Maurice, to United States of America, Army. Electric switch. 3,052,185, 9–4–62, Cl. 102—28.
Aptaoff, William, and E. C. Glasser. Display device. 3,048,-935, 8–14–62, Cl. 40—106.53.
Apted, James E. : *See*—
Oliver, George F. N., and Apted. 3,060,569.
Aqua-Chem, Inc. : *See*—
Goeldner, Richard W. Re. 25,232.
Aquafilter Corp. : *See*—
Shaw, Herman L. 3,048,180.
AquaMatic Inc. : *See*—
Whitlock, Robert A. 3,019,817.
Whitlock, Robert A. 3,029,949.
Whitlock, Robert A. 3,049,238.
Whitlock, Robert A., and Johnson. 3,049,237.
Aquatron Engineering Corp. : *See*—
Green, William G. 3,067,820.
Green, William G., and Moody. 3,064,127.
Aquillon, Andre, and A. Pingeon, to Societe Genevoise d'Instruments de Phisique. Machine-tool. 3,036,479, 5–29–62, Cl. 77—4.
Aquino, Eugene R. Hoop trundle. 3,060,636, 10–30–62, Cl. 46—220.
Arabian, Karekin G. : *See*—
Post, Benjamin G., Marple, and Arabian. 3,036,024.
Arabian, Karekin G., and N. Carraway, to Shell Oil Co. Solvent fractionation of wax containing mixtures. 3,041,-268, 6–26–62, Cl. 208—31.
Arai, Zentaro. Fixing device for back board, elbow rests and legs of a chair. 3,036,864, 5–29–62, Cl. 297—463.
Arakawa, Naoji. Device for changing the course of a sliver in a draft apparatus. 3,045,291, 7–24–62, Cl. 19—250.
Arams, Frank R. : *See*—
Vaccaro, Frank E., and Arams. 3,049,684.
Aranas, Federico. Flush toilet sanitary devices. 3,015,826, 1–9–62, Cl. 4—7.
Arantz, Carl F., Jr. : *See*—
Turner, William P., and Arantz. 3,058,108.
Arany, Donald. Sound reproducing system. 3,054,856, 9–18–62, Cl. 179—1.
Aranyi, Janos A., C. Blionas, and E. Sarfaty, to Harris-Intertype Corp. Typographical linecasting machine galley. 3,042,189, 7–3–62, Cl. 199—61.
Arapahoe Chemicals, Inc. : *See*—
Hultquist, Martin E. 3,069,464.
Arata, Kenneth A. : *See*—
Emily, Avis E., Jr., and Arata. 3,050,434.
Arbeit, Pierre, to Societe Compagnie de Saint-Gobain. Apparatus and method for circulating molten glass. 3,015,-190, 1–2–62, Cl. 49—54.
Arber, Rowland S. P., to U.D. Engineering Co. Ltd. Apparatus for automatically and successively moving containers to and from a filling or emptying station. 3,050,179, 8–21–62, Cl. 198—232.
Arbisi, Dominic. Vacuum device. 3,063,223, 11–13–62, Cl. 55—468.
Arbit, Harold A. : *See*—
Gaines, Robert W., and Arbit. 3,058,863.
Arbogast, Duane J., and L. F. Jaseph, to Dover Corp. Constant flow valve assembly. 3,020,892, 2–13–62, Cl. 121—46.4.
Arbogast, James L., and C. H. Fay, to Shell Oil Co. Pipe finder. 3,052,837, 9–4–62, Cl. 324—3.
Arburg-Feingeraetefabrik oHG, Hehl & Sohne : *See*—
Hehl, Karl. 3,015,131.
Hehl, Karl. 3,033,949.
Hehl, Karl. 3,034,175.
Hehl, Karl. 3,068,520.
Arc Engineering Corp. : *See*—
Dow, Walter O., and Collins. 3,038,987.
Arcamone, Federico, C. Bertazzoli, M. Ghione, and T. Scotti, to Societa Farmaceutici Italia. Fermentative production and recovery of an antibiotic. 3,065,147, 11–20–62, Cl. 195—80.
Arcand, Adelard J., to Pepperell Mfg. Co. Picker check assembly for looms. 3,048,196, 8–7–62, Cl. 139—165.
Arcara, James R. : *See*—
Packer, Morton, and Arcara. 3,022,396.
Arceneaux, Richard L. : *See*—
Reinhardt, Robert M., Frick, Arceneaux, and Reid. 3,015,584.
Archambault, Maurice, J. U. MacEwan, and C. A. Olivier, to Department of Mines. Method of producing lithium carbonate compound. 3,017,243, 1–16–62, Cl. 23—63.
Archbold, Ralph L., to White Sewing Machine Corp. Safety hat. 3,016,541, 1–16–62, Cl. 2—3.
Archer, Bradford L. : *See*—
Warner, Paul F., Archer, and Franz. 3,064,025.
Archer-Daniels-Midland Co. : *See*—
Budde, Walter M. 3,050,480.
Budde, Walter M., Jr. 3,043,717.
Hansen, Louis I., and Sedgwick. 3,051,729.
Hathaway, Clayton E., Jr., Goetz, and Kottke. 3,046,147.
Archer, Erling B. Automatic ice making devices. 3,048,986, 8–14–62, Cl. 62—345.
Archer, Farley J. : *See*—
Archer, William G. 3,036,529.
Archer, Gardner. Interconnected ocean barges. 3,035,536, 5–22–62, Cl. 114—77.
Archer, Genevieve C. : *See*—
Archer, Warren and G. C. 3,022,897.
Archer, George R., to The Budd Co. Planar computer. 3,034,710, 5–15–62, Cl. 235—61.6.
Archer, George R., to Robotron Corp. Resistance heating control. 3,068,350, 12–11–62, Cl. 219—110.
Archer, Lee A. : *See*—
Nava, Joseph A., and Archer. 3,017,597.
Archer, Red. Plastic decoy. 3,055,134, 9–25–62, Cl. 43—3.
Archer, Sydney, to Sterling Drug Inc. 1-(2-phenethyl)-4-lower alkyl-2-piperazinones and process for the preparation thereof. 3,062,821, 11–6–62, Cl. 260—268.
Archer, Sydney, and M. R. Bell, to Sterling Drug Inc. 3-aryl-3-isonitrosomethyl-tropanes and preparation thereof. 3,056,794, 10–2–62, Cl. 260—292.
Archer, Sydney, and M. R. Bell, to Sterling Drug Inc. 3-aryl-3-C(aroyl or alkanoyl) tropanes and preparation thereof. 3,056,795, 10–2–62, Cl. 260—292.
Archer, Sydney, and M. R. Bell, to Sterling Drug Inc. 3-bis(monocarbocyclic aryl)-methylenetropane epoxides and preparation thereof. 3,058,984, 10–16–62, Cl. 260—292.
Archer, Warren and G. C., 1/10% to Gadget-Of-The-Month Club Inc. Object-mounting storage rack. 3,022,897, 2–27–62, Cl. 211—36.
Archer, William G., to F. J. Archer. Pump. 3,036,529, 5–29–62, Cl. 103—168.
Archibald, Paul B., 25% to D. Nardelli. Process for cleaning and coating sized bulk glass fibrous material. 3,032,434, 5–1–62, Cl. 117—46.
Archibald, Paul B., to United States of America, Atomic Energy Commission. Method for solvent-isostatic pressing. 3,054,147, 9–18–62, Cl. 18—55.
Archibald, William J. : *See*—
Frankton, William J., Roseway, Atkinson, and Archibald. 3,059,068.
Archilithic Co., The : *See*—
Winn, James B., Jr. 3,034,732.
Arcidiacono, Peter J., to United Aircraft Corp. Cyclic pitch control. 3,031,017, 4–24–62, Cl. 170—160.25.
Arcoa, Inc. : *See*—
Safford, Thomas W. 3,051,338.
Arcos Corp. : *See*—
Johnson, Wallace C. 3,022,413.
Johnson, Wallace C. 3,042,790.
Norcross, James E., 3,068,827.
Norcross, James E., and Thomas. 3,059,093.
Wilcox, Wayne L. 3,016,452.
Wooding, Wlater H., Thomas, and Norcross. 3,046,386.
Arde-Portland, Inc. : *See*—
Aleck, Benjamin J. 3,039,649.
Arden, Benjamin, to Purex Corp., Ltd. Composition and process for removing heat scale from metal parts. 3,025,-189, 3–13–62, Cl. 134—3.
Arden, David. Speaker enclosure. 3,059,719, 10–23–62, Cl. 181—31.
Ardia, Vincent H., and K. O. Reckenbeil, to The Bendix Corp. Manually operable rotary switch with electromagnetic on-off action and return action upon failure of energizing circuit. 3,036,174, 5–22–62, Cl. 200—87.

Ardis, Alan E., F. L. Nasti, and A. A. Vaitekunas, to Olin Mathieson Chemical Corp. Preparation of aromatic carboxylic acids. 3,026,122, 5–22–62, Cl. 260—524.

Arditi, Maurice: *See*—
Kastler, Alfred, and Arditi. 3,054,069.

Ardito, William A., to Westinghouse Electric Corp. Attaching mechanism for a floor machine tool. 3,055,030, 9–25–62, Cl. 15—49.

Ardley, Stanley M., to The Distillers Co. Ltd. Process for preparing a rubber composition containing a cross-linked polymer of a mono-vinyl aromatic compound. 3,047,519, 7–31–62, Cl. 260—5.

Ardley, Stanley M., and J. A. Jones, to The Distillers Co. Ltd. Improved polystyrene composition containing vulcanized butadiene-styrene copolymer rubber. 3,021,300 2–13–62, Cl. 260—45.5.

Ardmore Hosiery Mills: *See*—
Wick, Edward J., and Day. 3,060,874.

Arean Eastern Ltd.: *See*—
Shewell, Earl W. 3,048,245.

Aref, Mohamed N., to Foster Wheeler Corp. Cyclone furnace. 3,039,406, 6–19–62, Cl. 110—28.

Arel, Inc.: *See*—
McCartney, Robert E. 3,063,353.

Arenbeck, Helmut, to Natronzellstoff-und Papierfabriken AG. Packaging. 3,033,439, 5–8–62, Cl. 229—62.5.

Arenco Aktiebolag: *See*—
Ahlbor, Valter A., and Neumann. 3,018,031.
Axlid, Sven A., and Ortmark. 3,024,816.
Falke, Erik, and Karlsson. 3,063,159.
Nilsson, John G. 3,028,028.
Skärstrom, Åke R. 3,036,580.
Skärström, Ake R. 3,037,411.
Teiling, Torbern, and Bengtsson. 3,020,538.

Arend, Wolfgang: *See*—
Trieschmann, Hans G., Reuter, and Arend. 3,036,974.

Arenhold, Karl-Heinz, to Chlorator G.m.b.H. Quantity controlled chlorinating installation. 3,030,974, 4–24–62, Cl. 137—100.

Arenhold, Karl-Heinz, to Chlorator G.m.b.H. Quantity and quality controlled chlorinating installation. 3,042,059, 7–3–62, Cl. 137—89.

Arens, Josef F., H. J. T. Bos, and H. Vieregge, to Organon Inc. Process for the preparation of α,β-unsaturated carbonyl compounds. 3,030,359, 4–17–62, Cl. 260—239.55.

Arens, Robert C., and A. C. Kipper, to Western Electric Co., Inc. Device for stripping and winding insulated conductors. 3,023,484, 3–6–62, Cl. 29—33.

Arenson, Dorothy Y.: *See*—
Almassy, Elek. 3,050,788.

Arenson, Herbert. Hollow stem connector and support. 3,038,194, 6–12–62, Cl. 16—43.

Arents, Johannes W. M.: *See*—
Wanmaker, Willem L., Bakker, and Arents. 3,059,133.

Arenz, Matthias, to Schloemann Aktiengesellschaft. Means for cooling the mandrel of an extrusion press. 3,028,007, 4–3–62. Cl. 207—16.

Ares, Manuel, to General Electric Co. Microwave amplifying system. 3,048,794, 8–7–62, Cl. 331—78.

Ares, Marcel E. Hub cap for spoked wheels. 3,034,833, 5–15–62, Cl. 301—37.

Arey, Ralph G., to Texas Instruments Inc. Electrical switches. 3,022,402, 2–20–62, Cl. 200—116.

Arey, Ralph G., deceased, A. Stone, executor; 20% to W. J. Hurd, and 80% to J. Lydon. Razor with fixed cutting means within a rotatable, foraminous, resiliently yieldable sleeve. 3,037,281, 6–5–62, Cl. 30—43.

Arey, Ralph G., and D. E. Clarke, to Texas Instruments Inc. Electrical switches. 3,042,776, 7–3–62, Cl. 200—116.

Arey, William F., Jr.: *See*—
Tyson, Charles W., De Feo, and Arey. 3,026,176.

Argabright, Perry A.: *See*—
Stogryn, Eugene L., and Argabright. 3,048,531.

Argabright, Perry A., and I. Kuntz, to Esso Research and Engineering Co. Polymeric product. 3,030,344, 4–17–62, Cl. 260—79.

Argabright, Perry A., and E. A. Schmall, to Esso Research and Engineering Co. Titanium halide derivatives. 3,069,-446, 12–18–62, Cl. 260—429.5.

Argabright, Perry A., and I. Kuntz, to Esso Research and Engineering Co. Process for curing solid composite propellants using electromagnetic radiation. 3,070,470, 12–25–62, Cl. 149—19.

Argabright, William S., to Double Envelope Corp. Double coin pocket mailer. 3,026,019, 3–20–62, Cl. 229—72.

Argabrite, George A., to Pacific Transducer Corp. Surface thermometer. 3,015,955, 1–9–62, Cl. 73—363.7.

Arganbright, Jess G., and J. C. Walsh, to Cherry-Burrell Corp. Refrigeration system for heat exchangers. 3,041,-854, 7–3–62, Cl. 62—527.

Arganbright, Robert P., to Monsanto Chemical Co. Production of butadiene. 3,028,440, 4–3–62, Cl. 260—680.

Arganbright, Robert P., to Monsanto Chemical Co. Selective chlorination process. 3,050,568, 8–21–62, Cl. 260—654.

Arge, Thorstein. Pump and filter system for swimming pools. 3,051,312, 8–28–62, Cl. 210—137.

Argentieri, Michael A., and F. E. Lind, to International Telephone and Telegraph Corp. Adjustable delay line. 3,020,497, 2–6–62, Cl. 333—30.

Argersinger, John I., and H. J. Blaskowski, to Combustion Engineering, Inc. Method of operating a power plant system. 3,055,181, 9–25–62, Cl. 60—73.

Arguimbau, Vincent C.: *See*—
Gonzales-Pelaez, Manuel. 3,020,167.

Argus Chemical Corp.: *See*—
Hecker, Arthur C., Knoepke, Leistner, and Pollock. 3,056,824.
Hecker, Arthur C., Pollock, and Rabinovici. 3,028,352.
Leistner, William E., and Knoepke. 3,037,961.
Leistner, William E., Knoepke, and Hecker. 3,015,644.

Argus Inc.: *See*—
Beach, Willis S. 3,061,222.
Groves, William A. 3,061,219.
Krasny, Hubert. 3,059,527.
Matsui, Masanao. 3,067,399.
Pester, W Bruce. 3,067,650.
Zill, Edwin O. 3,057,278.

Argyle, Siddington, to Aerojet-General Corp. Optical scanning device. 3,068,740, 12–18–62, Cl. 88—1.

Arianex: *See*—
Guichard, Raymond A. E. 3,034,511.

Arici, Giuseppe. Logarithmic computing machine. 3,061,190, 10–30–62, Cl. 235—84.

Ariemma, Sidney: *See*—
Buselli, Alio J., and Ariemma. 3,018,274.

Aries, Robert S. Pure silicon by hydrogen reduction. 3,016,-291, 1–9–62, Cl. 23—223.5.

Aries, Robert S. Preparation of aromatic nitriles. 3,029,-245, 4–10–62, Cl. 260—294.9.

Aries, Robert S. Polymerization of formaldehyde. 3,030,338, 4–17–62, Cl. 260—67.

Aries, Robert S. Production of pure silicon. 3,041,145, 6–26–62, Cl. 23—223.5.

Aries, Robert S. Preparation of pyridine alcohols. 3,042,682, 7–3–62, Cl. 260—297.

Aries, Robert S. Preparation of boranes. 3,053,630, 9–11–62, Cl. 23—204.

Aries, Robert S. Organic reduction method. 3,053,871, 9–11–62, Cl. 260—448.

Aries, Robert S. Esterification of iso-olefins. 3,053,887, 9–11–62, Cl. 260—49.7.

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Jeger, Oskar, and Arigoni. 3,034,859.
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Moehlenpah, Walter G., and Pallme. 3,069,684.

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Mosher, Hugh H. 3,055,773.

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Kauffman, Robert T., and Arlitz. 3,019,534.

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Bard, Algert L., and Johnsen. 3,061,209.
Beattie, Charles W., and Kommenovich. 3,028,269.
Brys, Harry E. 3,042,861.
Clarke, William C., Jr. 3,069,257.
Coburn, Kenneth G. 3,051,587.
Eckert, Lewis W. 3,017,947.
Espy, Ronald H. 3,066,215.
Foley, Matthew J., and Burns. 3,057,056.
Gillett, Frank L. 3,056,287.
Guest, Paul R., and Reinarz. 3,037,460.
Holmquist, John L. 3,044,962.
Hudson, Edwin B. 3,038,219.
Hudson, Edwin B. 3,040,396.
Hudson, Edwin B. 3,045,997.
Jackson, John M. 3,061,486.
Knapp, Earle L. 3,018,190.
Knapp, Earle L. 3,060,889.
La Tour, Harry, and Miller. Re. 25,300.
Long, Spencer W. 3,017,936.
Miller, James S. 3,061,314.
Montoya, Hernando J., and Underwood. 3,043,344.
Nelson, Claude R. 3,051,456.
Oganowski, Kasimir, and Morrow. 3,016,041.
Parks, Noel W. 3,069,769.
Rippy, Kenneth W. 3,063,245.
Wachsmann, Konrad. 3,065,851.
Wasweiler, James H., and Larrimore. 3,046,167.
Word, William W., Jr. 3,020,069.
Word, William W., Jr. 3,042,427.
Word, William W., Jr. 3,062,565.

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Murdock, Stanley A., and Armen. 3,026,295.
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Murdock, Stanley A., and Armen. 3,029,218.
Traylor, Teddy G., and Armen. 3,043,811.

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Mann, Leonard J., Armentrout, and O'Connell. 3,027,732.
Wurtz, Clifford H., and Armentrout. 3,033,636.

Armentrout, Everett C., to General Motors Corp. Refrigerating apparatus including defrosting means. 3,029,610, 4–17–62, Cl. 62—156.

Armentrout, Everett C., to General Motors Corp. Butter storage in a refrigerator. 3,043,569, 7–10–62, Cl. 257—291.

Armeny, Percy J. : *See*—
Ogden, Joseph, and Armeny. 3,049,753.

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Handley, John R., and Armer. 3,054,251.

Armer, Rollin A., to Calpat Products, Inc. Parking meter and time release mechanism therefor. 3,015,208, 1–2–62, Cl. 58—142.

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Busse, Warren F., Bowers, and Armitage. 3,043,716.

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Almquist, Vernon C. 3,041,658.
Berst, Carl J. 3,060,035.
Cizek, Arthur. 3,047,510.
Damaskus, Charles W. 3,024,167.
Damaskus, Charles W., and Bradford. 3,050,445.
De la Burde, Roger, and Veis. 3,055,790.
Elnhorn, Clarence M. 3,051,367.
Furgal, Henry P., and Rendck. 3,062,663.
Glynn, Emmett P., and Hebenstreit. 3,032,505.
Gretler, Albert C., Wilcox, and Hopkins. 3,068,104.
Hopkins, Ervin W., and Zimont. 3,049,428.
Kaiser, Emil, and Traxler. 3,053,794.
Keil, Havard L., and Cavanaugh. 3,048,627.
Metcalfe, Lincoln, and Mitz. 3,024 283.
Niblack, Robert L., and Kline. 3,026,209.
Sherrill, Joseph C., Linfield, and Marsh. 3,033,704.
Sifferd, Robert H. 3,033,849.
Sifferd, Robert H. 3,033,850.
Speer, Paul, Griggs, and McAvoy. 3,046,286.
Staackmann, Joachim W., and Furgal. 3,062,655.
Tarvin, James W., and Fisher. 3,033,690.
Thompson, Robert E. 3,036,956.
Wolnak, Bernard, and Barrington. 3,041,250.

Armour-Pharmaceutical : *See*—
Antonides Harold J. 3,065,142.
Bardos, Thomas J., Olsen, and Enkoji. 3,057,865.
Bradford, Paul E., Damaskus, and Lesh. 3,051,627.
Damaskus, Charles W., and Bradford. 3,050,445.
Herr, Ross R., Enkoji, and Bardos. 3,048,589.
Kaiser, Emil, and Gunther. 3,053,825.
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Sifferd, Robert H., and Braitberg. 3,066,164.
Traxler, James T. 3,051,640.
Van Melle, Peter J. 3,057,851.
Volini, Marguerite, and Mitz. 3,069,323.

Armour Research Foundation of Illinois Institute of Technology : *See*—
Anderson, Marvin E. 3,015,533.
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Bock, Frederick C., Cameron, and Kantner. 3,053 453.
Cammack, Rose M., Schossberger, and Ticulka. 3,032,393.
Camras, Marvin. 3,025,011.
Camras, Marvin. 3,040,124.
Camras, Marvin. 3,049,790.
Camras, Marvin. 3,053,939.
Lang, Albert P. 3,029,080.
Lang, Albert P. 3,053,540.
Metcalfe, Arthur G., and Spachner. 3,037,272.
Reed, Frank J. 3,029,032.
Reiffel, Leonard. 3,016,461.
Reiffel, Leonard. 3,029,342.
Reiffel, Leonard, and Stone. 3,029,343.
Rostoker, William, and Domagala. 3,060,557.
Savitt, Jacob, Stresau, and Weber. 3,062,143.
Sosnovsky, George. 3,047,603.
Williams, Cecil E. 3,041,413.

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Armstead, George B., Jr., to The Merrow Machine Co. Stitch formation. 3,067,706, 12–11–62, Cl. 112—262.

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Butler, Jack M. 3,052,462.

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Almy, Richard, and Zentmyer. 3,056,224.
Anderson, Charles U., and Stanley. 3,015,266.
Bolgiano, Nicholas C. 3,070,563.
Brooks, John G., and Koehn. 3,044,976.
Feigley, David A., Jr. 3,020,765.
Feigley, David A., Jr., and Hawkins. 3,058,872.
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Gard, George E. 3,062,511.

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Glasbrenner, Stanley N. 3,055,524.
Grabowski, Thaddeus J. 3,058,162.
Hager, Nathaniel E., Jr. 3,045,473.
Mason, William L. 3,027,603.
McLaughlin, Guy, Jr., Denlinger, and Herr. 3,057,451.
Moorhead, Raymond C. 3,034,567.
Navikas, Victor A. 3,029,765.
Navikas, Victor A. 3,037,474.
Parker, John A. 3,019,212.
Piersol, Jay L. 3,058,945.
Snyder, Robert W. 3,060,502.
Whittemore, Harold E., and Morrison. 3,055,483.
Armstrong, Donald D.: *See*—
Wells, Bruce C., and Armstrong. 3,064,104.
Armstrong Frank W.: *See*—
Carpenter, Otis R., and Armstrong. 3,059,099.
Rogers, Jesse L., and Armstrong. 3,060,847.
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Armstrong, James H. Computing device. 3,053,445, 9–11–62, Cl. 235—61.
Armstrong, John B.: *See*—
Chittum, Joseph F., Owens, and Armstrong. 3,041,135.
Armstrong Patents Co. Ltd.: *See*—
Day, Alan R. A. 3,020,981.
Dickinson, Ronald S. 3,021,153.
Dickinson, Ronald S. 3,058,739.
Dickinson, Ronald S., and Bartram. 3,054,260.
Armstrong, Philip N.: *See*—
Hayes, Robert M., Nelson, Wiener, and Armstrong. 3,021,005.
Armstrong, Philip N., to Hughes Aircraft Co. Large capacity closed-loop delay apparatus. 3,047,744, 7–31–62, Cl. 340—174.1.
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Armstrong, Richard W. Security canopy for filing cabinet drawer. 3,041,124, 6–26–62, Cl. 312—270.
Armstrong, Robert G., and J. R. Lauchlin, to The Ohio Crankshaft Co. Induction heating apparatus. 3,057,986, 10–9–62, Cl. 219—10.69.
Armstrong, Warren D., 25% to A. A. Will and D. F. Vehicle engine-powered lubricating device. 3,062,320, 11–6–62, Cl. 184—7.
Armstrong, William A. Barbecue. 3,058,414, 10–16–62, Cl. 99—421.
Armstrong, William T. Collapsible suitcase. 3,068,972, 12–18–62, Cl. 190—41.
Armytage, Frederick W. Machine for abrasive finishing of contoured or profiled surfaces. 3,043,057, 7–10–62, Cl. 51—67.
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Arnaud, John W. Private-wire data recording system. 3,022,371, 2–20–62, Cl. 178—2.
Arnault, Joseph A., to Union Carbide Corp. Shape cutting machine-remote tracing system. 3,037,760, 6–5–62, Cl. 266—23.
Arnbak, Lars, & Co.: *See*—
Christiansen, Ove F. 3,066,814.
Arnberg, Benjamin T., R. K. Braendlein, and R. P. Starbuck, to The Marquardt Corp. Air mass flow computer. 3,029,-601, 4–17–62, Cl. 60—35.6.
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Arndt, Charles J.. to Goodman Mfg. Co. Troughing idler assembly for low rope installations. 3,062,361, 11–6–62, Cl. 198—192.
Arndt, Charles J., and R. F. Lo Presti, to Goodman Mfg. Co. Modified full flexible troughing idler assembly for low clearance operations. 3,038,588, 6–12–62, Cl. 198—192.
Arndt, Charles J., and R. F. Risse, to Goodman Mfg. Co. Automatic two directional belt training troughing idler assembly. 3,058,575, 10–16–62, Cl. 198—202.
Arndt, Charles J.. and R. F. Lo Presti, to Goodman Mfg. Co. Roof suspension means for a flexible strand conveyor. 3,062,360, 11–6–62. Cl. 198—184.
Arndt, Friedrich: *See*—
Berg, Fritz, Arndt, and Wrabetz. 3,046,895.
Arndt, Richard H., to General Electric Co. Asynchronous beam scanning device. 3,066,238, 11–27–62, Cl. 315—22.
Arne, Christian, to Chicago Bridge & Iron Co. Method of producing lined vessels. 3,064,344, 11–20–62, Cl. 29—421.
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Arnell, Alvin, and H. Berger, to Miller-Lauffer Printing Equipment Corp. Predetermined counter. 3,070,298, 12–25–62, Cl. 235—132.
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Arnesen, Frederick M., and L. C. Cloninger, to The Dow Chemical Co. Compositions comprising graft copolymers of N-vinyl-2-oxazolidinone monomers on acrylonitrile polymer substrates; articles thereof; and method of making same. 3,035,010, 5–15–62, Cl. 260—45.5.
Arneson, Edwin L., to Federal Paper Board Co., Inc. Carton. 3,018,942, 1–30–62, Cl. 229—51.
Arneson, Edwin L., to Federal Paper Board Co., Inc. Article carrier. 3,029,977, 4–17–62, Cl. 220—113.
Arneson, Edwin L., to Federal Paper Board Co., Inc. Article carrier. 3,053,432, 9–11–62, Cl. 229—52.
Arneson, Edwin L., to Federal Paper Board Co., Inc. Article carrier. 3,062,404. 11–6–62, Cl. 220—113.
Arnett, August P., Jr., to International Business Machines Corp. Counter failure detector. 3,058,655, 10–16–62, Cl. 235—152.
Arnett, Earl K., to Phillips Petroleum Co. Fractionation of light hydrocarbons. 3,055,826, 9–25–62, Cl. 208—351.
Arnett, Leslie, and W. G. Freise, to Square Mfg. Co. Syrup supply system. 3,015,419, 1–2–62, Cl. 222—130.
Arnett, Ray H. Plywood panel edging machine. 3,068,915, 12–18–62, Cl. 144—2.
Arnett, Samuel E.: *See*—
German, Richard C., Arnett, and Roberts. 3,019,597.
Arnett, Samuel E., and H. E. Starr, to The Bendix Corp. Control apparatus for internal combustion engine. 3,018,-621, 1–30–62, Cl. 60—39.28.
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Arnheiter, Adolf. Kit for forming figures, in particular animals. 3,035,689, 5–22–62, Cl. 206—47.
Arnl, Hans, and P. Jordi, to Ciba Ltd. Tools for making surface patterns. 3,069,721, 12–25–62, Cl. 18—1.
Arnit, Fred H., to Garey Corp. Leveling device for standards. 3,045,389, 7–24–62, Cl. 45—139.
Arnold, Carter H. Hoisting device. 3,063,653, 11–13–62, Cl. 254—150.
Arnold, Charles M.: *See*—
Longenecker, John G., Arnold, and Reiss. 3,068,351.
Arnold, Clyde H. Assorting apparatus. 3,065,851, 11–27–62, Cl. 209—84.
Arnold, Delevan J., and R. L. Sylvester, to Rack Specialists, Inc. Side shifting load carrier. 3,025,986, 3–20–62, Cl. 214—731.
Arnold, Edward R.: *See*—
Moore, Thomas M., and Arnold. 3,021,438
Arnold, Ernest A., and A. W. Pipes. Underwater casing, including camera control means. 3,019,715, 2–6–62, Cl. 95—11.
Arnold, Everett B., Jr., to General Motors Corp. Window and window frame construction. 3,050,332, 8–21–62, Cl. 296—49.
Arnold, George B., H. D. Kluge, R. C. Schlicht, and W. Smolin, to Texaco Inc. Process for preparation of sulfonic acid. 3,017,430. 1–16–62, Cl. 260—505
Arnold, George D. Electric water heater. 3,066,214, 11–27–62, Cl. 219—38.
Arnold, George L., K. D. Bailey, W. W. Lindsay, Jr., and J. A. Smithson, to Lockheed Aircraft Corp. Aircraft traffic control and surveillance system. 3,047,861, 7–31–62, Cl. 343—112.
Arnold, Gerald A., and L. Wallerstein, Jr., to Lord Mfg. Co. Friction damper. 3,034,597, 5–15–62, Cl. 188—1.
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Arnold, Henry M. Oscillating cam and follower assembly for pulling valves open. 3,055,395, 9–25–62, Cl. 137—636.1.
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Arnold, Howard H., to Western Electric Co., Inc. Method of and apparatus for vibration testing. 3,015,949, 1–9–62, Cl. 73—71.5.
Arnold, Howard N., J. Pokorny, and M. B. Pickett, to G. S. Blakeslee & Co. Machine for painting articles. 3,030,913, 4–24–62, Cl. 118—72.
Arnold, James S., and J. A. Kochly, to United States of America, Air Force. Structural bond evaluation. 3,016,-735, 1–16–62, Cl. 73—67.1.
Arnold, Joseph S., Jr.: *See*—
Davy, Russell W., Arnold, and Vajda. 3,067,991.
Arnold, Lawrence F., to The B. F. Goodrich Co. Dye receptive blend of a synthetic hydrophobic fiber-forming polymer and a linear polyacrylic anhydride and method of preparing same. 3,066,113, 11–27–62, Cl. 260—45.4.

Arnold, Le Roy R., J. E. Bloyd, and F. L. Carson, to J. M. Huber Corp. Dual completion apparatus for use with walking beams. 3,051,238, 8–28–62, Cl. 166—75.

Arnold, Nicholas H., and A. L. Thompson, to Pentron Electronics Corp. Machine construction. 3,019,011, 1–30–62, Cl. 269—226.

Arnold, Nick: *See*—
Foote, Daniel J., and Arnold. 3,031,877.

Arnold, Oscar L. Highway slope finishing machine. 3,049,818, 8–21–62, Cl. 37—109.

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Arnold, Ralph A., and J. M. Gidding. Silicone treated cotton. 3,042,549, 7–3–62, Cl. 117—140.

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Arnold & Stolzenberg, G.m.b.H.: *See*—
Hain, Kurt. 3,068,708.

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Bonas, Harry G., and Arnold. 3,056,431.
Grosnickle, Henry, Jr., and Arnold. 3,031,188.

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Arnoldy, Roman F. Method of forming hard surfacing. 3,062,948, 11–6–62, Cl. 219—76.

Arnošt, Lumir: *See*—
Vlček, Jaromir, and Arnošt. 3,032,791.

Arnot, Alfred E. R., to Lansing Bagnall Ltd. Industrial trucks. 3,031,094, 4–24–62, Cl. 214—674.

Arnould, Marcel M., to Metal Frame Aquarium Co. Multipurpose fish aquarium cover. 3,018,758, 1–30–62, Cl. 119—5.

Arnott Corp.: *See*—
Forman, Jan. 3,029,397.

Arnoux, Marcel: *See*—
Daumy, Georges, Rambaud, and Arnoux. 3,049,335.

Arnow, Samuel M., to Baldwin-Lima-Hamilton Corp. Steam power generating apparatus. 3,040,537, 6–26–62, Cl. 60—67.

Aro Corp., The: *See*—
Clark, Samuel K., and Kiester. 3,032,231.
Plouck, Richard E., and Stine. 3,060,757.

Aro Equipment Corp., The: *See*—
Hitt, Otis D., Knapp, Johnson, and Rosenblum. 3,018,673.
Keckler, John W. 3,018,635.

Aron, Eric: *See*—
Pulman, William E. R. 3,024,520.

Aron, Mitchell. Electrostatic air cleaning devices. 3,054,245, 9–18–62, Cl. 55—138.

Arond, Lester H., W. J. Salem, H. Wechsler, and S. Makower to The Borden Co. Copolymers of vinyl chloride and alkoxyalkyl esters. 3,017,396, 1–16–62, Cl. 260—78.5.

Arones, Daniel A., to Advance Floor Machine Co. Shiftable pick-up squeegee unit for floor treating machine. 3,065,490, 11–27–62, Cl. 15—359.

Aronis, William, to International Business Machines Corp. Magnetic recording apparatus. 3,065,461, 11–20–62, Cl. 340—174.1.

Aronsohn, Allan. Exercising and gymnastics appliances. 3,017,180, 1–16–62, Cl. 272—58.

Aronson, Charles N., to Aronson Machine Co., Inc. Geared elevation work positioner. 3,039,766, 6–19–62, Cl. 269—61.

Aronson, David, to Worthington Corp. Vessel for subcooled liquid. 3,045,437, 7–24–62, Cl. 62—54.

Aronson Machine Co., Inc.: *See*—
Aronson, Charles N. 3,039,766.

Aronson, Theodore F.: *See*—
Lyon, Floyd A., and Aronson. 3,021,874.
Lyon, Floyd A., and Aronson. 3,067,871.

Aronson, Theodore F., and F. A. Lyon. Envelope blank forming means and methods. 3,025,770, 3–20–62, Cl. 93—63.

Aronson, Theodore F., and F. A. Lyon, to Halm Instrument Co., Inc. Resistor capping means. 3,029,500, 4–17–62, Cl. 29—211.

Aronson, Theodore F., and F. A. Lyon, to Commercial Envelope Mfg. Co., Inc. High speed means for feeding a strip with constant speed input but with intermittent motion at the work location. 3,053,129, 9–11–62, Cl. 83—236.

Arnoux Corp.: *See*—
Turner, Wheeler M. 3,052,759.

Arots, Joseph B., and K. J. Fletcher, to Hercules Powder Co. Inhibition of corrosive action of aqueous ammonium nitrate-urea on ferrous metals. 3,029,139, 4–10–62, Cl. 71—30.

Arpaia, Michael A. Carbureting system. 3,053,242, 9–11–62, Cl. 123—122.

Arpels, Pierre, to Societe Van Cleef & Arpels. Three link connector wherein the links may be relatively angularly varied. 3,049,897, 8–21–62, Cl. 63—2.

Arpin, John W., to American Plastics Corp. Cover structure. 3,048,301, 8–7–62, Cl. 220—82.

Arps Corp.: *See*—
Arps, Jan J. 3,046,474.

Arps, Jan J., to Arps Corp. Bore-hole logging system and method. 3,046,474, 7–24–62, Cl. 324—1.

Arquette, Gordon J., to Air Reduction Co., Inc. Process of making polymers of vinyl ethers. 3,047,555, 7–31–62, Cl. 260—91.1.

Arquette, Gordon J., D. S. Dixler, and M. P. Strier, to Air Reduction Co., Inc. Solid composite rocket propellants containing poly(vinyl lower alkyl ethers). 3,017,260, 1–16–62, Cl. 149—60.

Arquette, Gordon J., and L. Reich, to Air Reduction Co., Inc. Insoluibilization of coatings. 3,061,458, 10–30–62, Cl. 117—62.

Arquier, Gaston. Apparatus for the heat treatment of saw teeth and its application to saw sharpening machine. 3,060,305, 10–23–62, Cl. 219—50.

Arragon, Philippe, to L'Air Liquide, Societe Anonyme pour l'Etudes et l'Exploitation des Procedes Georges Claude. 3,027,764, 4–3–62, Cl. 73—202.

Arragon, Philippe, to L'Air Liquide Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude. Method of measuring to flow of fluids of variable composition. 3,060,737, 10–30–62, Cl. 73—194.

Arras, Ludwig: *See*—
Hack, Heinrich, and Arras. 3,041,881.

Arrasmith, William C., to Radar Relay, Inc. Mounting and latching means for annunciator lamp housing panels. 3,019,428, 1–30–62, Cl. 340—381.

Arrigo, Anthony J.: *See*—
Lawson, Gerald W., and Arrigo. 3,022,668.

Arrigo, Joseph T., to Universal Oil Products Co. N,N'-diaralkylsalicylidene diaminoalkanes and uses thereof. 3,054,824, 9–18–62, Cl. 260—566.

Arrigo, Joseph T., to Universal Oil Products Co. Preparation of indanols. 3,057,929, 10–9–62, Cl. 260—621.

Arrington, Forrest M., and R. Deitemeyer. Heat insulated package. 3,023,922, 3–6–62, Cl. 220—11.

Arrison, Frank C., to Fischer & Porter Co. Clamping means. 3,063,981, 11–27–62, Cl. 287—54.

Arrow Fastener Co., Inc.: *See*—
Clay, Nathan S. 3,036,306.
Clay, Nathan S. 3,056,963.

Arrow-Hart & Hegeman Electric Co., The: *See*—
Daly, Daniel F. 3,027,440.
Daly, Daniel F. 3,035,140.
Daly, Daniel F. 3,043,938.
Daly, Daniel F. 3,049,024.
Daly, Daniel F. 3,049,371.
Dietrich, Walter L., and Galt. 3,040,142.

Arrow Lock Corp.: *See*—
Schiowitz, Hyman A. 3,048,436.

Arrow Louver and Damper Corp.: *See*—
Kahn, Elliot, and Bobrowich. 3,047,9914.

Arrow-Safety Device Co.: *See*—
Rossi, Robert R. 3,066,899.

Arrowsmith, John B. Stunning pistol for use in slaughtering animals. 3,068,601, 12–18–62, Cl. 42—1.

Arsem, Alvan D., F. H. Osborne, I. M. Laurien, and C. L. Flateau, to The Wurlitzer Co. Vibrato apparatus. 3,069,958, 12–25–62, Cl. 84—1.25.

Arseneau, Jean J. Line puller. 3,018,531, 1–30–62, Cl. 24—134.

Arseneau, Roger E.: *See*—
Pickering, Thomas S., Kasper, Arseneau, and Maxa. 3,038,969.

Art Award Co., Inc., The: *See*—
Schwartz, Alfred L. 3,023,884.

Art Metal, Inc.: *See*—
Stark, Forest G. 3,036,401.

Art Steel Co., Inc.: *See*—
Bergman, Edward A. 3,047,157.
Bergman Ed. 3,057,358.

Artcraft Novelty Shop: *See*—
Mulder, Cyrus E. 3,066,645.

Arth, Glen E., R. E. Beyler, and L. H. Sarett, to Merck & Co., Inc. Ring A unsaturated 6, 16 dimethyl steroids of the pregnane series. 3,054,811, 9–18–62, Cl. 260—397.45.

Arth, Glen E., R. E. Beyler, and L. H. Sarett, to Merck & Co., Inc. 16γ-alkyl 21-aldehyde hydrate steroids and processes for preparing the same. 3,068,250, 12–11–62, Cl. 260—397.45.

Arth, Glen E., and L. H. Sarett, to Merck & Co., Inc. Intermediates in the preparation of aldosterone antagonists. 3,039,528, 6–19–62, Cl. 260—397.4.

Arth, Glen E., and J. Fried, to Merck & Co. Inc. Method of preparation of inorganic chemical compound. 3,046,094, 7–24–62, Cl. 23—205.

Arthaber, Josef M., and W. J. Moore, to United States of America, Army. Optical fuze. 3,034,436, 5–15–62, Cl. 102—70.2.

Arthen, Frank J.: *See*—
Coleman, Ralph A., Arthen, Milionis, and Forster. 3,041,330.
Coleman, Ralph A., Arthen, Milionis, and Forster. 3,057,921.
Milionis, Jerry P., and Arthen. 3,049,503.

Arthur, Edwin P., to Beckman Instruments, Inc. Glass. 3,032,429, 5–1–62, Cl. 106—52.

Arthur, Edwin P., and J. E. Leonard, to Beckman Instruments, Inc. Ion electrode assembly. 3,049,118, 8–14–62, Cl. 128—2.

Arthur, Edwin P., and W. Donner, to Beckman Instruments, Inc. Ionic transducer. 3,070,539, 12–25–62, Cl. 204—195.
Arthur, Glen H. Hydraulically operated power swivel. 3,053,330, 9–11–62, Cl. 175—170.
Arthur, Graham W.: *See*—
Evans, Ronald M., Elks, Hems, Arthur, Oughton, Gregory, Walker, and Hunt. 3,040,034.
Arthur, James. Message register reader. 3,051,937, 8–28–62, Cl. 340—332.
Arthur, James R., and R. F. Powers, to United States of America, Army. Combustion apparatus. 3,054,259, 9–18–62, Cl. 60—39.72.
Arthur, Oscar F. Method for forming a bonded pallet structure and pallet produced by same. 3,016,222, 1–9–62, Cl. 248—120.
Arthur, Oscar F., to Flow Products, Inc. Container of the box type. 3,048,295, 8–7–62, Cl. 217—12.
Arthur, Paul, Jr., to E. I. du Pont de Nemours and Co. Process for the production of fibrous alumina monohydrate. 3,056,747, 10–2–62, Cl. 252—313.
Arthur, Richard P., and N. J. Simkus, to International Telephone and Telegraph Corp. Fuse holder. 3,038,977, 6–12–62, Cl. 200—133.
Arthur, Ronald H.: *See*—
Cetran, Louis, Arthur, and Holland. 3,019,881.
Arthur, Ronald H., to Royal McBee Corp. High speed typewriters. 3,068,985, 12–18–62, Cl. 197—14.
Arthur, Vesta K. Ellipse compass. 3,016,611, 1–16–62, Cl. 33—30.
Artigalas, Frank, and W. C. Rickman, to Metroform Co. Concrete form. 3,057,269, 10–9–62. Cl. 94—17.
Artman, Clayton E., to United States Steel Corp. Coil opening and feeding apparatus. 3,052,423, 9–4–62, Cl. 242—78.8.
Artman, Raymond P. Foldable partition. 3,053,318, 9–11–62, Cl. 160—231.
Artman, Robert A., R. C. Root, and A. H. Turner, to Ford Motor Co. Electrostatic paint system. 3,017,115, 1–16–62. Cl. 239—3.
Artos Engineering Co.: *See*—
Andren, Karl H. 3,029,494.
Andren, Karl H. 3,032,860.
Artzt, Emanuel. Earring securing device. 3,040,406, 6–26–62, Cl. 24—263.
Aruar, Henri J. Smoking pipe. 3,037,512, 6–5–62, Cl. 131—213.
Arundale, Erving: *See*—
Guyer, Walter R. F., and Arundale. 3,022,252.
Arvan, John, to Luk-O-Ma Corp. Automatic cooking apparatus. 3,022,722, 2–27–62, Cl. 99—354.
Arvan, John. Frying apparatus. 3,026,790, 3–27–62, Cl. 99—336.
Arvan Products, Inc.: *See*—
Arvanitakis, Kostas S. 3,042,214.
Arvanitakis, Kostas S. 3,055,290.
Arvanetakis, Kiryako: *See*—
Boyle, Earl N., and Arvanetakis. 3,058,137.
Arvanitakis, Kostas S., to Arvan Products, Inc. Filter apparatus. 3,042,214, 7–3–62. Cl. 210—330.
Arvanitakis, Kostas S., to Arvan Products, Inc. Filter system. 3,055,290, 9–25–62, Cl. 100—116.
Arvidson, Bengt A., to Miller Wrapping & Sealing Machine Co. Article wrapping structure. 3,019,584, 2–6–62, Cl. 53—39.
Arvidson, Gunnar, to Svenska Flygmotor Aktiebolaget. Device for measuring pressure or difference of pressure in fluids. 3,021,711, 2–20–62, Cl. 73—398.
Arvin Industries, Inc.: *See*—
Boardman, Lester R. 3,030,716.
Boardman, Lester R. 3,039,215.
Ferris, Kenneth D. 3,021,886.
Ludlow, Edmund, Irwin, and Brighton. 3,020,379.
Sohn, John P. 3,019,324.
Wintermute, Glenn E., and Smith. 3,028,667.
Wintermute, Glenn E., Smith, and Brighton. 3,022,211.
Arwell Inc.: *See*—
Scott, Wellington W., and Irvine. 3,015,184.
Arwine, John L.: *See*—
Bryan, William T., and Arwine. 3,043,765.
Arzberger, William A., to Carrier Corp. Defrost control. 3,065,608, 11–27–62. Cl. 62—80.
Asad, Samuel C. Roller skate and toe stop assembly therefor. 3,035,846, 5–22–62, Cl. 280—11.2.
Asada, Mamoru: *See*—
Irie, Tsuneo, Kagiya, and Asada. 3,016,396.
Asahara, Junpei: *See*—
Munakata, Motosuke, and Asahora. 3,020,238.
Asahi Kasei Kogyo Kabushiki Kaisha: *See*—
Aizawa, Hiizu, and Ishida. 3,049,755.
Arita, Hideo, Yamada, and Yamazaki. 3,038,783.
Hirao, Motozo, Haruta, Kuwatsuka, Munekata, and Imamoto. 3,025,136.
Tsunoda, Yoshio, Fujimoto Aishima, and Kobayashi. 3,065,216.
Yomiyama, Akira, and Yonekawa. 3,052,522.
Asai, Shinichiro, to Kabushiki Kaisha Takada Kojo. Safety belt buckle. 3,029,487, 4–17–62, Cl. 24—230.
Asai, Toshinobu, K. Aida, K. Iizuka, and T. Kajiwara, to Ajinomoto Kabushiki Kaisha. Process for producing L-tryptophan from 3-indolepyruvic acid. 3,036,958, 5–29–62, Cl. 195—29.
Asakawa, George: *See*—
Vernet, Sergius, and Asakawa. 3,059,475.
Asakawa, George, and S. Vernet, to Antioch College. Converter of electrical energy into mechanical movement. 3,016,691, 1–16–62, Cl. 60—23.
Asakawa, Yukichi: *See*—
Moriya, Saburo M., and Asakawa. Re. 25,201.
Asano, Kosuke: *See*—
Watanabe, Koichi, and Asano. 3,069,924.
Asaro, Vito, and A. Ciesielski, to Young Spring & Wire Corp. Seat construction. 3,049,377, 8–14–62, Cl. 297—456.
Asars, Juris A., to Westinghouse Electric Corp. Electrical systems employing nonlinear dielectric capacitive elements. 3,018,412, 1–23–62, Cl. 315—166.
Asbeck, Werner, to Klockner Werke A.G. Arrangement for coiling metal strip material. 3,028,114, 4–3–62, Cl. 242—78.4.
Asbury, Benjamin R. Wide back tension plate for bread wrapping machine. 3,019,580, 2–6–62, Cl. 53—230.
Asbury, Charles T. Cutting tool. 3,036,324, 5–29–62, Cl. 15—198.
Asbury, Charles T. Abrading machine and drive therefor. 3,045,992, 7–24–62, Cl. 262—20.
Asbury, Edward M. Signal device. 3,016,035, 1–9–62, Cl. 116—63.
Ascardi, Thomas. Mallet and die game. 3,017,186, 1–16–62, Cl. 273—146.
Aschauer, George R., to Twin Disc Clutch Co. Friction plate clutch. 3,063,531, 11–13–62, Cl. 192—113.
Ascheri, Emmett. Truck trailer jack. 3,038,700, 6–12–62, Cl. 254—2.
Aschinger, Harold W., to Vare Industries. Underwater surveying apparatus. 3,024,615, 3–13–62, Cl. 61—69.
Aschinger, Harold W., to Vare Industries. Underwater towed vehicle. 3,024,757, 3–13–62, Cl. 114—235.
Aschinger, Harold W., to Vare Industries. Winch. 3,025,009, 3–13–62, Cl. 242—54.
Aschinger, Harold W., to Vare Industries. Cable reel assembly. 3,025,019, 3–13–62. Cl. 242—82.
Aschinger, Harold W., to Vare Industries. Underwater fastening device. 3,033,149, 5–8–62, Cl. 114—51.
Aschinger, Harold W., to Vare Industries. Cable terminal. 3,033,919, 5–8–62, Cl. 174—151.
Aschinger, Harold W., to Vare Industries. Towed vehicle. 3,034,468, 5–15–62, Cl. 114—16.
Aschinger, Harold W., to Vare Industries. Method of nesting an underwater towed vehicle. 3,034,471, 5–15–62, Cl. 114—235.
Aschinger, Harold W., to Vare Industries. Seal assembly for rotary shaft. 3,055,667, 9–25–62, Cl. 277—95.
Aseltine, William S.: *See*—
Honsaker, Charles C., and Aseltine. 3,060,925.
Ash, Bernard E., to International Standard Electric Corp. Tension control mechanism for winding machines. 3,059,869, 10–23–62, Cl. 242—45.
Ash, Charles S. Aircraft handling residential building. 3,033,499, 5–8–62, Cl. 244—114.
Ash, Eric A., and D. Pattenden, to International Standard Electric Corp. Coupled waveguides. 3,020,498, 2–6–62, Cl. 333—33.
Ash, John L., II, and H. Pedersen, to The Gleason Works. Adjustable ratio transmission. 3,046,799, 7–31–62, Cl. 74—57.
Ash, Michael E., to Arthur Guinness Son and Co. (Park Royal) Ltd. Method of dispensing liquids. 3,063,841, 11–13–62, Cl. 99—49.
Ash, Raymond J. Tire valve cap tool. 3,025,734, 3–20–62, Cl. 81—90.
Ash, William J., and J. F. Pozzi, to United States of America, Atomic Energy Commission. Water cooled retort cover. 3,033,549, 5–8–62, Cl. 266—19.
Ashaway Line & Twine Mfg. Co.: *See*—
Crandall, Julian T. 3,050,431.
Ashbaugh, James A., to Minster Machine Co. Lubricant pressure control valve. 3,026,387, 3–20–62, Cl. 200—82.
Ashbrook, Richard L.: *See*—
Horton, Robert A., Ashbrook, and Feagin. 3,019,497.
Ashby, Eugene C., to Ethyl Corp. Production of organoboranes. 3,023,248, 2–27–62, Cl. 260—606.5.
Ashby, Eugene C., W. E. Foster, J. R. Mangham, and T. H. Pearson, to Ethyl Corp. Aluminum acetylenic compounds. 3,020,298, 2–6–62, Cl. 260—448.
Ashby, George S.: *See*—
Zakrzewski, Andrew S., and Ashby. 3,038,637.
Ashby, Ralph E. Automatic poultry waterer valve. 3,023,773, 3–6–62, Cl. 119—81.
Ashby, Robert M., to North American Aviation, Inc. Conical scanning system. 3,032,759, 5–1–62, Cl. 343—16.
Ashby, Robert M., to North American Aviation, Inc. Radiant energy scanner. 3,048,844, 8–7–62, Cl. 343—777.
Ashcraft, Steve. Disposable package. 3,057,538, 10–9–62, Cl. 229—53.
Ashcroft, Charles D. Ball-point pen with tandem cartridges. 3,018,761, 1–30–62, Cl. 120—42.1.
Ashe, Robert E., J. A. Haeber, N. B. Newman, and L. G. Otteman, to Shell Oil Co. Pivoted tubing well connection. 3,041,090, 6–26–62, Cl. 285—137.
Asher, Ronald D.: *See*—
Spencer, Leland H., and Asher. 3,045,495.
Asher, William J., and W. R. Epperly, to Esso Research and Engineering Co. Hydrocarbon separation process. 3,070,542, 12–25–62, Cl. 208—310.

Ashford, Jack: *See*—
Kremer, Joseph H., and Ashford. 3,027,654.
Ashikaga, Yoshitaro: *See*—
Chibata, Ichiro, Kisumi, and Ashikaga. 3,058,888.
Ashkin, Arthur, and E. I. Gordon, to Bell Telephone Laboratories, Inc. Low noise electron beam amplifier with low pump frequency. 3,054,964, 9–18–62, Cl. 330—43.
Ashland Oil & Refining Co.: *See*—
Brice, Herbert J., Jr., Bennington, and McKenzie. 3,061,543.
Paulsen, Thorwell H. 3,055,956.
Ashley, Albert H.: *See*—
Humphrey, Watts S., Jr., and Ashley. 3,058,096.
Ashley Bending Co. Ltd.: *See*—
Hawtin, Percy. 3,069,775.
Ashley, Carlyle M., to Carrier Corp. Apparatus for blanching food products. 3,053,166, 9–11–62, Cl. 99—251.
Ashley, Carlyle M., and W. H. Roberts, to Carrier Corp. Air conditioning systems. 3,041,047, 6–26–62, Cl. 257—297.
Ashley, James W., and L. J. Knight, to United Kingdom Atomic Energy Authority. Graphite assemblies for nuclear reactors. 3,016,765, 1–16–62, Cl. 74—579.
Ashley, Julius N., R. F. Collins, and M. Davis, to May & Baker Ltd. Aminophenoxyalkane derivatives. 3,052,722, 9–4–62, Cl. 260—575.
Ashley, Robert H., to John Wood Co. Water heaters. 3,035,555, 5–22–62, Cl. 122—137.
Ashley-Wing, Herbert H., to Friden, Inc. Automatic spring looping machine. 3,040,784, 6–26–62, Cl. 140—103.
Ashlock, George W., Co.: *See*—
Hesse, Earl J., and Margaroli. 3,042,093.
Ashton, Benjamin N., to Electrol Inc. Shimmy dampening device for aircraft landing gear. 3,015,311, 1–2–62, Cl. 121—39.
Ashton, N. C., Developments Ltd.: *See*—
Ashton, Norman C., and Wilson. 3,045,516.
Ashton, Norman C., and C. V. Wilson, to N. C. Ashton Developments Ltd. Ring rolling mills. 3,045,516, 7–24–62, Cl. 80—5.
Ashton, Robert: *See*—
Horne, Donald S., Ashton, and Kepkay. 3,049,026.
Ashton, Robert, and H. C. Smith, to Massey-Ferguson Ltd. Header for combines. 3,067,562, 12–11–62, Cl. 56—106.
Ashwill, Richard E.: *See*—
Kapp, Numer M., and Ashwill. 3,034,993.
Ashworth Bros., Inc.: *See*—
Bechtel, Alfred R., Jr. 3,045,809.
Burnett, John S., and Reinhold. 3,033,353.
Stone, Chester. 3,055,488.
Askania-Werke A.G.: *See*—
Biermann, Markus, and Kuehne. 3,046,404.
Graf, Anton. 3,019,655.
Haalck, Fritz. 3,055,218.
Hildebrand, Klaus. 3,037,418.
Kuehne, Christoph. 3,055,263.
Seiffert, Georg. 3,038,152.
Wehling, Georg. 3,055,260.
Werner, Friedrich. 3,068,741.
Aske, Charles B., Jr., and E. L. Wood. Vehicle wheel trim. 3,034,834, 5–15–62, Cl. 301—37.
Aske, Eugene E. Power transmitting coupling and method of producing same. 3,058,321, 10–16–62, Cl. 64—11.
Aske, Leonard E., to Minneapolis-Honeywell Regulator Co. Laminated magnetic apparatus and method for making same. 3,045,133, 7–17–62, Cl. 310—43.
Aske, Leonard E., to Minneapolis-Honeywell Regulator Co. Sealing apparatus. 3,047,703, 7–31–62, Cl. 219—19.
Aske, Vernon H., and A. D. Glick, to Minneapolis-Honeywell Regulator Co. Transducer for a pendulous gyroscopic accelerometer. 3,041,883, 7–3–62, Cl. 73—504.
Askew, Andrew L., Jr.: *See*—
Reynolds, Richard H., and Askew. 3,045,692.
Askew, Harry R.: *See*—
Holden, Lawrence T., and Askew. 3,015,847.
Askins, John M.: *See*—
Harper, John T., and Askins. 3,039,797.
Askiof, Sture H. V., to Macrosonics Corp. Ultrasonic demister. 3,026,966, 3–27–62, Cl. 183—15.
Aslan, Wilfred, to Alkon Products Corp. Hydraulic valve. 3,060,969, 10–30–62, Cl. 137—623.
Aslan, Wilfred, to Alkon Products Corp. Fluid valve construction. 3,060,970, 10–30–62, Cl. 137—625.25.
Asman, Norman J.: *See*—
Huss, William S., and Asman. 3,027,062.
Kuchenbecker, Morris W., and Asman. 3,037,681.
Asman, Norman J. Dispensing package. 3,036,729, 5–29–62, Cl. 221—48.
Asman, Norman J., to American Can Co. Display carton. 3,038,650, 6–12–62, Cl. 229—33.
Asman, Norman J., and W. S. Huss, to American Can Co. Hinge cover carton. 3,019,958, 2–6–62, Cl. 229—31.
Aspeek, Reginald J. Power feed device. 3,039,330, 6–19–62. Cl. 77—34.4.
Aspegren, Olof E. A., and A. J. Eklund, to The Oil Shale Corp. Method for the treatment of oil shale. 3,025,223, 3–13–62, Cl. 202—14.
Aspen Boot, Ltd.: *See*—
Scott, Bruce A., Oden, and Lawrence. 3,067,531.
Aspergren, Brooke D., R. B. Moffet, and M. E. Speeter, to The Upjohn Co. Alpha-phenyl-omega-amino-alkanamides. 3,022,314, 2–20–62, Cl. 260—326.3.
Aspin, Frank M. Internal combustion engines, compressors and the like. 3,051,156, 8–28–62, Cl. 123—190.
Asplund, Arne J. A. Grinding apparatus for fibrous material. 3,032,282, 5–1–62, Cl. 241—256.
Asplund, Arne J. A. Continuous disc type press. 3,053,171, 9–11–62, Cl. 100—158.
Asprion, Anna M. (nee Goerz). Safety window for counters. 3,055,319, 9–25–62, Cl. 109—12.
Asseff, Peter A.: *See*—
Vogel, Paul W., Asseff, and Le Suer. 3,033,786.
Asseff, Peter A., to The Lubrizol Corp. Foam inhibited gear lubricant composition. 3,033,789, 5–8–62, Cl. 252—49.9.
Asselin, Maurice: *See*—
Greffe, Andre, Asselin, and Grandjacques. 3,054,670.
Asseo, Edgar, to Brown, Boveri & Cie, Aktiengesellschaft. Transistor type impulse relay. 3,035,188, 5–15–62, Cl. 307—88.5.
Assmann, Wolfgang, Gesellschaft mit beschrankter Haftung: *See*—
Ouvrier, Gerhard. 3,029,319.
Associated Automation Ltd.: *See*—
Hall, Frederick W., and Young. 3,023,275.
Associated Electrical Industries Ltd.: *See*—
Balkwill, John T., and Folkes. 3,037,833.
Barnes, Robert. 3,060,403.
Bawdekar, Vaman S. 3,062,980.
Boyle, John A., and Garnett. 3,057,598.
Dyson, James. 3,068,743.
Freeman, Alan T. 3,064,099.
Griffiths, Leonard, and Coe. 3,031,592.
Knight, Henry D. B. 3,037,141.
Knight, Henry D. B. 3,051,863.
Lock, Tom. 3,031,636.
Rawson, Harold, and Elyard. 3,063,793.
Shannon, James F., Tate, and Fulton. 3,026,745.
Shearman, Paul M. 3,030,560.
Tudge, Joseph. 3,046,424.
Vodden, Cyril C. 3,026,441.
Warman, Bloomfield J. 3,068,324.
Whiffin, George L. 3,069,516.
Whiteroft, John, and Choudhury. 3,031,605.
Woodcock, Raymond. 3,036,280.
Associated Electrical Industries (Manchester) Ltd.: *See*—
Consterdine, Edward W. 3,045,136.
Davies, David R. 3,066,269.
Haine, Michael E. and Einstein. 3,051,860.
Scoles, Graham J., and Lyall. 3,066,260.
Associated Electrical Industries (Ruby) Ltd.: *See*—
Adams, Thomas E. 3,066,960.
Mynall, Dennis J. 3,064,169.
Olds, Geoffrey C. E. 3,063,834.
Roxburgh, Albert, Leigh, and Fellerman. 3,069,521.
Scott, William J., and Crowther. 3,059,193.
Associated Electrical Industries (Woolwich) Ltd.: *See*—
Deakin, Stanley T. 3,039,751.
Emberson, Kenneth W., and Hunt. 3,066,879.
Freestone, Roland, and Weir. 3,054,709.
Haine, Michael E. 3,069,551.
Masters, Kenneth W., Grant, and Double. 3,059,121.
Todman, John S. 3,053,992.
Watkiss, John E. R. 3,064,184.
Associated Lead Manufacturers Ltd.: *See*—
Jamieson, Helen D. 3,046,150.
Jamieson, Helen D. 3,053,685.
Olby, John K. 3,058,838.
Associated Nucleonics, Inc.: *See*—
Bartolomei, George G. 3,037,067.
Silverman, Joseph. 3,031,579.
Associated Products and Service Co.: *See*—
Krause, Carl H. 3,065,439.
Associated Spring Corp.: *See*—
Elder, Lorne C. 3,016,994.
Maker, James H. 3,015,882.
Maker, James H. 3,021,129.
Schmidt, Henry C. 3,030,783.
Storer, Richard H. 3,015,901.
Associated Television Ltd.: *See*—
Marsden, Bernard. 3,065,296.
Astatic Corp., The: *See*—
Cvetko, Henry J., and Chapin. 3,017,467.
Keskinen, Allan R. 3,047,674.
Asta-Werke Aktiengesellschaft Chemische Fabrik: *See*—
Arnold, Herbert, Bourseaux, and Brock. 3,035,080.
Arnold, Herbert, Brock, and Bourseaux. 3,018,302.
Asten, William P., to Melnor, Inc. Photoelectric devices. Re. 25,258, 10–9–62, Cl. 250—239.
Astier, Pierre J.-B. Composing machine automatic control. 3,057,458, 10–9–62, Cl. 199—18.
Astley, Edward T., to J. F. Crosfield Ltd. Splicing of preprinted webs. 3,042,332, 7–3–62, Cl. 242—58.3.
Aston, Bruno: *See*—
McMeen, Forrest H., Aston, and Stucka. 3,017,658.
Aston, William C.: *See*—
Hirst, Stanley, and Aston. 3,049,035.
Aston, William S. Cutter arrangement. 3,043,079, 7–10–62, Cl. 56—290.
Aston, William W. C-bar structure. 3,016,635, 1–16–62, Cl. 37—144.
Astra, Apotekarnes Kemiska Fabriker, Aktiebolaget: *See*—
Eriesson, Sten Y., and Stjernstrom. 3,065,139.
Järnhill, Bertil. 3,022,886.
Ugi, Ivar, and Meyr. 3,065,241.

Astra, Inc. : *See*—
Culp, Archie W., Jr. 3,051,838.
Weinberg, Daniel I. 3,026,868.
Astradsson, Per A. : *See*—
Senning, Ake, and Astradsson. 3,065,748.
Åström, Karl R. Removable hoisting attachment for tractors. 3,043,375, 7–10–62, Cl. 172—273.
Astrosonics, Inc. : *See*—
Fortman, William K. 3,070,313.
Astrosystems, Inc. : *See*—
Scala, Thomas J. 3,039,450.
Astrup, Alvin T. : *See*—
Tsou, Kwan C., Sandler, and Astrup. 3,069,459.
Astrupgaard, Svend : *See*—
Reeber, Rudolf, Dobner, and Astrupgaard. 3,066,625.
Atalla, Anwar A., to The Torrington Mfg. Co. Air impelling fan and associated part. 3,028,072, 4–3–62, Cl. 230—241.
Atalla, Martin M., to Bell Telephone Laboratories Inc. Semiconductor triode. 3,056,888, 10–2–62, Cl. 307—88.5.
Atalla, Martin M., I. M. Ross, and F. M. Smits, to Bell Telephone Laboratories, Inc. Semiconductor tunnel device. 3,045,129, 7–17–62, Cl. 307—88.5.
Atamian, Zaven : *See*—
Hansen, Jay M., and Atamian. 3,022,494.
Atanasoff, John V. Sound discriminating device. 3,054,472, 9–18–62, Cl. 181—.5.
Atanasoff, John V. and T. B., D. W. Beecher, O. M. Long, R. E. Tabler, S. H. Macrum, Jr., and W. E. Selzer, to Aero-Jet-General Corp. Article sorting system. 3,033,366, 5–8–62, Cl. 209—82.
Atanasoff, Theodore B. : *See*—
Atanasoff, John V. and T. B., Beecher, Long, Tabler, Macrum, and Selzer. 3,033,366.
7–24–62, Cl. 109—3.
Atchison, Charles T. Burglar prevention device. 3,045,615.
Atchison, Daniel R., to M. Q. Kubiak. Weighing scales. 3,031,022, 4–24–62, Cl. 177—230.
Atchison, Leonard W., to General Electric Co. Air conditioning unit having low fan speed over-ride means. 3,040,543, 6–26–62, Cl. 62—181.
Atchison, Leonard W., to General Electric Co. Air conditioning unit having high and low capacity operation. 3,040,544, 6–26–62, Cl. 62—267.
Atchison, Robert A. : *See*—
Cohen, Charles L., and Atchison. 3,031,142.
Atchison, Topeka and Santa Fe Railway Co., The : *See*—
Miller, Donald E. 3,017,841.
Atchley, Oscar J. Pen for feeding calves liquid and solid feed. 3,043,265, 7–10–62, Cl. 119—20.
Atchley, Raymond D., to American Brake Shoe Co. Valve. 3,017,864, 1–23–62, Cl. 121—41.
Ateliers de Carspoh : *See*—
Allimann, Georges. 3,022,055.
Ateliers de Construction du Nord de la France, Societe Anonyme dite, Les : *See*—
Pelabon, Andre. 3,040,907.
Ateliers de Constructions Electriques de Charleroi, Societe Anonyme : *See*—
Bingen, Roald. 3,041,449.
Fagel, Roger. 3,055,448.
Passau, Philippe. 3,033,461.
Ateliers de Constructions Mecaniques C. & A. Holweg, Les : *See*—
Gassner, Georges. 3,016,085.
Ateliers de Constructions Metalliques et Mecaniques Giovanola Freres S.A. : *See*—
Rossi, Elio R. 3,026,081.
Ateliers des Charmilles S.A. : *See*—
Pfau, Jean. 3,061,708.
Ateliers Heuze, Maleves et Simon Reunis, Societe Anonyme : *See*—
Simon, Andre. 3,045,806.
Atherholt, George L., Sr., to A & C Engineering Co. Hydraulically expandable arbor. 3,030,120, 4–17–62, Cl. 279—46.
Atherton, Edward W., and S. E. Zocholl, to I-T-E Circuit Breaker Co. Power component detector. 3,050,676, 8–21–62, Cl. 323—66.
Atherton, George E. : *See*—
Hatcher, Julian P., Atherton, and Cox. 3,043,783.
Atherton, Gerald W. Dust mop washing machine. 3,068,678, 12–18–62, Cl. 68—148.
Atherton, Neil F., to Applied Power Industries, Inc. Lever assemblage. 3,041,886, 7–3–62, Cl. 74—102.
Atherton, Neil F., to Applied Power Industries, Inc. Fluid pressure operated rotary torque applying device. 3,059,683, 10–23–62, Cl. 153—40.
Atherton, Neil F., and J. L. Johnston, to Applied Power Industries, Inc. Fluid actuated hydraulic power unit. 3,041,975, 7–3–62, Cl. 103—50.
Atherton, Robert R., to United States of America, Navy. Voltage comparator having pulse generator operative when input voltage back-biases comparison diode. 3,033,996, 5–8–62, Cl. 307—88.5.
Atherton, William G., to Fairbanks, Morse & Co. Cooling passage means for dynamoelectric machines. 3,027,470, 3–27–62, Cl. 310—59.
Ativeh, Amen. Vacuum cleaner nozzle. 3,046,592, 7–31–62, Cl. 15—369.
Atkeson, Albert J. Boat steering mechanism. 3,050,025, 8–21–62, Cl. 114—144.
Atkin, Rupert L., to Kelsey-Hayes Co. Tubeless tire wheel rim. 3,067,796, 12–11–62, Cl. 152—410.
Atkins, Carl E., and J. A. Pepling, to Tung-Sol Electric Inc. Touch responsive system. 3,025,434, 3–13–62, Cl. 317—146.
Atkins, Harold J. : *See*—
Fairclough, John H., and Atkins. 3,034,927.
Atkins, John B., to Noma Electric Co. Ltd. Flexible miniature lamp holder and connector. 3,069,650, 12–18–62, Cl. 339—59.
Atkins, John H. : *See*—
Brown, Franklin R., and Atkins. 3,030,916.
Atkins, Philip W., and J. E. Blocker. Compartmented food container. 3,052,368, 9–4–62, Cl. 215—6.
Atkins, Samuel L. Cigarette or cigar holder. 3,058,476, 10–16–62, Cl. 131—187.
Atkins, William F. : *See*—
Evans, James C., Morgan, Nichols, Garratt, Mason, and Atkins. 3,026,714.
Atkins, Wyman B., to Timber Truss Connectors, Inc. Connector plate. 3,016,586, 1–16–62, Cl. 20—92.
Atkinson, Albert E. Devices for cleaning the walls of boreholes. 3,038,540, 6–12–62, Cl. 166—170.
Atkinson, Allen S. : *See*—
Russ, Daniel G. 3,025,670.
Atkinson Bulk Transport Co. : *See*—
Swanson, Arden E. 3,058,780.
Atkinson, Duane E. Grading system with electrical contact. 3,044,195, 7–17–62, Cl. 37—143.
Atkinson, Edward J. : *See*—
De Fore, Ernest O., Cox, Ott, Atkinson, and Garrison.
Atkinson, Francis E., and J. F. Bowen, to Canadian Patents and Development Ltd. Process for the production of sparkling apple cider. 3,041,175, 6–26–62, Cl. 99—36.
Atkinson, Geoffrey : *See*—
Frankton, William J., Roseway, Atkinson, and Archibald. 3,059,068.
Atkinson, George E., to The Black and Decker Mfg. Co. Ram catcher for piston-ram assembly. 3,032,998, 5–8–62, Cl. 60—62.5.
Atkinson, George E., to The Black and Decker Mfg. Co. Air passage means for reciprocating saw. 3,033,252, 5–8–62, Cl. 143—157.
Atkinson, George E., to The Black and Decker Mfg. Co. Sealing ring means for reciprocating piston used in power-operated percussive tool. 3,067,584, 12–11–62, Cl. 60—62.5.
Atkinson, George E., and C. J. March, to The Black and Decker Mfg. Co. Two-position blade clamping means for a sabre saw. 3,028,890, 4–10–62, Cl. 143—156.
Atkinson, George E., and J. K. Allen, to The Black and Decker Mfg. Co. Double edged blades for sabre saw. 3,033,251, 5–8–62, Cl. 143—133.
Atkinson, George G., and G. Shand, to Metropolitan-Vickers Electric Co. Ltd. Railway signalling systems. 3,027,544, 3–27–62, Cl. 340—172.5.
Atkinson, Guy F., Co. : *See*—
Atkinson, Ray N. 3,040,638.
Ferguson, John E. 3,045,785.
Frey, Max. 3,063,725.
Spencer, Donald B. 3,034,164.
Stewart, Leo. 3,031,222.
Atkinson, James R. Rotary grill for a cooking device. 3,033,190, 5–8–62, Cl. 126—25.
Atkinson, Ralph B. Ferrographic recording head. 3,063,052, 11–6–62, Cl. 346—74.
Atkinson, Ralph L., to Personal Products Corp. Sanitary napkin and suspensory device therefor. 3,059,644, 10–23–62, Cl. 128—290.
Atkinson, Ray N., to Guy F. Atkinson Co. Sheep's foot tamper. 3,040,638, 6–26–62, Cl. 94—50.
Atkinson, Richard J. : *See*—
Lessing, John D., Atkinson, and Cadwell. 3,048,298.
Atkinson, Richard L. to Atkinson's Agricultural Appliances Ltd. Bearings, bearing assemblies and machinery guards incorporating them. 3,027,205, 3–27–62, Cl. 308—163.
Atkinson, Richard L., to Atkinson's Agricultural Appliances Ltd. Bearing assemblies and machinery guards incorporating them. 3,044,279, 7–17–62, Cl. 64—4.
Atkinson, Robert G. : *See*—
Oberfell, George G., and Atkinson. 3,053,185.
Atkinson, Robert P., and F. W. Hoeltje, to General Motors Corp. Lubrication vent for a turbine engine. 3,041,832, 7–3–62, Cl. 60—39.08.
Atkinson, Stanley H., to Ute Industries, Inc. Valve apparatus. 3,053,500, 9–11–62, Cl. 215—332.
Atkinson, Wallace E., to Long Mfg. Co., Inc. Full throw hasp construction. 3,035,861, 5–22–62, Cl. 292—281.
Atkinson, Wallace E., to Long Mfg. Co., Inc. Snapbolt. 3,066,966, 12–4–62, Cl. 292—246.
Atkinson, William P., and B. L. Lonngren, to Bucyrus-Erie Co. Excavator door latching means. 3,059,793, 10–23–62, Cl. 214—146.
Atkinson's Agricultural Appliances Ltd. : *See*—
Atkinson, Richard L. 3,027,205.
Atkinson, Richard L. 3,044,279.
Atkison, Duane E. Control system. 3,057,488, 10–9–62, Cl. 214—17.
Atkomatic Valve Co., Inc. : *See*—
Parent, Charles P., and Spear. 3,043,336.
Atkron, Inc. : *See*—
Copping, Bruce G. 3,052,071.
Atlanta Oak Flooring Co. : *See*—
Johnsa, Berry H. 3,032,934.

Atlantic Refining Co., The: *See*—
Barnard, Paul, Jr. 3,070,162.
Condo, Albert C., Jr. 3,020,137.
Condo, Albert C., Jr. 3,047,374.
Doan, Robert B. 3,021,284.
Doan, Robert B. 3,023,168.
Dunlap, Henry F., and Whorton. 3,052,835.
Godbey, Josiah J. 3,042,864.
Gzemski, Felix C., and Taylor. 3,041,299.
Kern, Loyd R. 3,058,909.
Kieras, Joseph A. 3,070,636.
Leum, Leonard N., and Connor. 3,030,411.
Leum, Leonard N., Connor, Rothrock, and Shipley. 3,041,270.
Russell, Donald H. 3,020,251.
Russell, Donald H. 3,050,474.
Shay, Edward G. 3,058,811
Signorino, Charles A. 3,062,835.
Washall, Thomas A. 3,058,905.
Wheeler, Edward S., Griesinger, and Ellis. 3,036,090.
Woodridge, Joseph E. 3,068,289.
Woodbridge, Joseph E., and Lawrence. 3,030,410.
Atlantic Research Corp.: *See*—
Friedman, Raymond. 3,023,573.
Henderson, Charles B., and Burton. 3,041,835.
Nathan, Gerd. 3,027,631.
Philipchuk, Vasil, and Ellis. 3,024,526.
Scurlock, Arch C., Rice, and Wales. 3,028,125.
Terek, Joseph A., and Stewart. 3,029,538.
Twyford, Robert H. 3,050,938.
Atlantic Surgical Co., Inc.: *See*—
Berger, Leon. 3,026,865.
Atlantis Electronics Corp.: *See*—
Bellows, Foy E. 3,064,989.
Atlas Bolt & Screw Co., The: *See*—
Schellentrager, Eugene W. 3,069,030.
Atlas Bradford Co.: *See*—
Hardy, John M., Taylor, and Griffin. 3,054,628.
Wehring, Elwood, and Dula. 3,047,316.
Atlas Chemical Industries, Inc.: *See*—
Baer, Byron N., Brandner, and Le Maistre. 3,031,320.
Ball, Thomas Z. 3,041,972.
Barlow, Lester F. 3,035,519.
Brandner, John D. 3,061,547.
Brandner, John D., and Ford. 3,016,393.
Geisler, Alan S. 3,035,923.
Hales, Ralph A. 3,040,062.
Kasehagen, Leo. 3,047,635.
Knightly, William T. 3,017,276.
Liggett, Robert W. 3,030,224.
Liggett, Robert W., and Hoffman. 3,030,376.
McFarland, David M. 3,056,349.
O'Brien, John C. 3,058,419.
Olney, Robert A. 3,056,688.
Sarappo, John W., and Kalbach. 3,040,104.
Simon, Edward M., Jr. 3,041,132.
Trevorrow, William D. 3,024,728.
Wilson, Joseph E., and Cear. 3,061,497.
Wolf, Alfred A. 3,019,315.
Wright, Leon W., and Brandner. 3,023,223.
Zech, John D. 3,025,148.
Zech, John D. 3,029,265.
Zech, John D. 3,060,182.
Atlas Copco Aktiebolag: *See*—
Hilfing, Earl E., and Lindell. 3,045,898.
Liedberg, Kurt H., and Peterson. 3,069,776.
Liedberg, Kurt H., and Zernell. 3,049,805.
Lowenborg, John G. F. 3,029,672.
Munck af Rosenschöld, John R., and Dahlgren. 3,034,-030.
Nilsson, Erik K. 3,026,905.
Nyholm, Bengt V. 3,056,390.
Sjöstrand, Fritiof S., Ottosson, and Zernell. 3,019,673.
Atlas, David. Analysis of radar meteorological statistical data. 3,039,088, 6–12–62, Cl. 343—5.
Atlas, David. Device to discretely characterize levels of signal intensity in radar mapping and computer displays. 3,050,723, 8–21–62, Cl. 343—11.
Atlas General Industries, Inc.: *See*—
Pagendarm, Edward J. 3,038,389.
Pagendarm, Richard V. 3,059,856.
Pierce, Chester J., Jr. 3,052,165.
Pierce, Chester J., Jr. 3,053,429.
Atlas, Gerald D. Multiple boat anchorage. 3,041,639. 7–3–62, Cl. 9—8.
Atlas, Jerrold D.: *See*—
Lang, Robert J., and Atlas. 3,067,948.
Atlas Novelty Co., Inc.: *See*—
Lesser, Jack, and Halber. 3,043,037.
Atlas Pacific Engineering Co.: *See*—
Loveland, Malcolm W., and Blakewell. 3,058,618.
Loveland, Malcolm W., and Cooper. 3,058,502.
Loveland, Malcolm W., Harrer, and Blakewell. 3,058,616.
Smith, Laurence H. 3,061,070.
Atlas-Pacific Engineering Co., Inc.: *See*—
Harrer, Theodore M., Loveland, and Blakewell. 3,055,-408.
Atlas Press Co.: *See*—
Buck, William H. 3,047,015.
Atlas Scraper and Engineering Co.: *See*—
Johnson, Kenneth E. 3,035,360.
Atlas Steels Ltd.: *See*—
Rostoker, William, and Carter. 3,029,171.
Atlas Supply Co.: *See*—
Caulkins, Bruce D. 3,055,410.
Atlas Tool & Mfg. Co.: *See*—
Delf, Glenn A. 3,060,993.
Atlas Werke A.G.: *See*—
Pohl, Friedrich. 3,051,324.
Atlee, Zed J., to Dunlee Corp. X-ray generator. 3,018,398, 1–23–62, Cl. 313—59.
Atlee, Zed J., to Dunlee Corp. Envelope for X-ray generator. 3,022,435, 2–20–62, Cl. 313—59.
Atman, Jay W.: *See*—
Myers, Robert R., and Atman. 3,026,497.
Atols, John M., to Atols Tool and Mold Corp. Die spotting press. 3,016,770, 1–16–62, Cl. 76—4.
Atols, John S. Centering device. 3,069,818, 12–25–62, Cl. 51—237.
Atols Tool and Mold Corp.: *See*—
Atols, John M. 3,016,770.
Atomic Energy of Canada Ltd.: *See*—
Bayly, John G., and Stevens. 3,021,427.
Erlebach, Woodland E., and Nishimura. 3,018,161.
Parsons, Peter J. 3,036,638.
Attermeyer, Lawrence A., to The Cincinnati Milling Machine Co. Keyway cutting machine. 3,018,696, 1–30–62, Cl. 90—16.
Atti, Eros, to Westinghouse Electric Corp. Cathode ray device. 3,065,368, 11–20–62, Cl. 313—71.
Atti, Eros, to Westinghouse Electric Corp. Cathode ray device. 3,065,375, 11–20–62, Cl. 315—30.
Atti, Eros, to Westinghouse Electric Corp. Electron beam device. 3,065,376, 11–20–62, Cl. 315—30.
Attoe, Osborne J., to Wisconsin Alumni Research Foundation. Fertilizer capsule. 3,059,379, 10–23–62, Cl. 47—48.5.
Attridge, Robert B.: *See*—
Turek, James H., Petrie, and Attridge. 3,022,602.
Attwood, Charles W. Special nuts. 3,049,161, 8–14–62, Cl. 151—37.
Attwood, Charles W. Roof or floor support. 3,049,196, 8–14–62, Cl. 189—34.
Attwood, Charles W. Curved nut with edges to bite into channel flanges. 3,053,355, 9–11–62, Cl. 189—36.
Attwood, James W. Pipe supports. 3,044,739, 7–17–62, Cl. 248—58.
Attwood, Warren R. Metallic framing element. 3,043,408, 7–10–62, Cl. 189—34.
Attwood, William H., P. H. Sewell, and S. R. Wilkins, to Avo Ltd. Coil winding apparatus. 3,031,153, 4–24–62, Cl. 242—158.
Attwood, William S., to General Motors Corp. Strip made of elastic deformable material for connecting two parts in edge-to-edge relation. 3,045,787, 7–24–62, Cl. 189—78.
Atvidaberg-Facit, Aktiebolag: *See*—
Grip, Erik K. 3,062,444.
Atvidabergs Industrier, Aktiebolaget: *See*—
Stemme, Nils G. E. 3,018,037.
Stemme, Nils G. 3,044,678.
Wahlström, Sven E. 3,025,017.
Wahlstrom, Sven E. 3,058,683.
Westerberg, Erik G. N. 3,025,497.
Atwater, Norman W., to G. D. Searle & Co. 5,7-seco-B-norandrostane derivatives. 3,023,227, 2–27–62, Cl. 260—468.
Atwell, Everett C., to Burlington Industries, Inc. Adhesion of vinyl resins to nylon or other synthetic fibrous materials. 3,030,230, 4–17–62, Cl. 117—76.
Atwell, Everett C., to Burlington Industries, Inc. Bonding of chlorosulphonated polyethylene to nylon. 3,060,070, 10–23–62, Cl. 154—52.
Atwell, Everett C., to Burlington Industries, Inc. Bonding of polyethylene terephthalate fibers to certain rubbers. 3,060,-078, 10–23–62, Cl. 156—335.
Atwell, Harold T., to Texaco Inc. Oxy-thermal process. 3,017,244, 1–16–62, Cl. 23—78.
Atwell, William J.: *See*—
Moore, Robert L., and Atwell. 3,054,761.
Atwood, Hubert C., Jr., and J. G. Williams, to Worthington Corp. Twin volute pump. 3,043,229, 7–10–62, Cl. 103—103.
Atwood, John G., and C. C. Helms, to The Perkin-Elmer Corp. Chromatographic analyzer. 3,026,712, 3–27–62, Cl. 73—23.
Atwood, Lamar T., to Hudson Pulp & Paper Corp. Bag handle and the like. 3,053,434, 9–11–62, Cl. 229—54.
Atwood, Lamar T., and R. E. Taylor, Jr., to Hudson Pulp & Paper Corp. Bag handle machine. 3,054,442, 9–18–62, Cl. 156—551.
Atwood, Mark T., to Continental Oil Co. Manufacture of alcohols. 3,017,438, 1–16–62, Cl. 260—632.
Atwood, Mark T., and G. G. McClaflin, to Continental Oil Co. Preparation of aluminum trialkyl compounds. 3,069,450, 12–18–62, Cl. 260—448.
Atwood, Rawson, and C. C. L'Allemand. Textile bobbin. 3,051,411, 8–28–62, Cl. 242—125.1.
Atwood, Reginald C. Stud gun adapter. 3,045,105, 7–17–62, Cl. 219—98.
Atwood, Seth G.: *See*—
Kirk, Joseph R., and Atwood. 3,059,942.
Atwood Vacuum Machine Co.: *See*—
Allen, Edwin L. 3,062,592.
Dacey, Ernest A. 3,039,801.
Kirk, Joseph R. 3,042,458.
Kirk, Joseph R., and Atwood. 3,059,942.
Meli, Joseph P., Wright, Kittle, and Simpson. 3,068,717.

Atzberger, Frank. Apparatus for refinishing brake drums. 3,038,356, 6–12–62, Cl. 77—2.
Au, Lawrence : *See*—
Mark, Alexander H., and Au. 3,048,981.
Au, Tin Y., to E. I. du Pont de Nemours and Co. Elongated cylindrical drawing element and method for treating yarn thereon. 3,067,460, 12–11–62, Cl. 18—8.
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Aubert, Pierre C., to Giravions Dorand. Guided missile simulator. 3,026,615, 3–27–62, Cl. 35—25.
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Aubrey, Howard W., and R. V. Cudhea, to Nashua Corp. Tape and label selective length printer and dispenser. 3,046,882, 7–31–62, Cl. 101—227.
Aubrey, William C., ½ to M. M. Jaros. Device for boat propulsion, steering and reversing of same. 3,063,403, 11–13–62, Cl. 115—35.
Aubry, Richard M., to Owens-Illinois Glass Co. Glass packaging. 3,067,552, 12–11–62, Cl. 53—15.
Auburn Machine Works, Inc. : *See*—
George, Warren E., and Kiechel. 3,054,198.
George, Warren E., Kiechel, and McInich. 3,057,088.
Kiechel, Fred C., and Straw. 3,057,089.
McInich, Glenn W. 3,049,824.
Aucremanne, Marcel J. : *See*—
Woolston, Daniel D., Miraldi, Manning, and Aucremanne. 3,070,773.
Audemar, Pierre, to Societe Alsacienne de Constructions Mechaniques. Hydraulic regulating system. 3,060,951, 10–30–62, Cl. 137—58.
Audesse, Emery G., to Sylvania Electric Products Inc. Method for introducing iodine into a lamp envelope. 3,063,778, 11–13–62, Cl. 316—25.
Audette, Paul M. : *See*—
Sibakin, George, and Audette. 3,029,141.
Audio Inc. : Vacuum hold-down apparatus. 3,042,356, 7–3–62. Cl. 248—363.
Audio Devices, Inc. : *See*—
Sutheim, George M., and Southcomb. 3,029,157.
Audio Systems, Inc. : *See*—
Sedley, Bruce S. 3,059,069.
Audio Tours, Inc. : *See*—
Sedley, Bruce S. 3,064,086.
Audiographic, Inc. : *See*—
Malin, Jack. 3,041,588.
Audiotronics Corp. : *See* —
Warner, Donald E., and Williams. 3,059,347.
Audivox, Inc. : *See*—
Joy, Ellis F. 3,062,911.
Audley Engineering Co. Ltd. : *See*—
Leach, Edward B. 3,043,469.
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Audrieth, Ludwig F., and R. J. A. Otto, to University of Illinois Foundation. Phosphonitrilic isothiocyanate products and methods of preparing them. 3,044,846, 7–17–62, Cl. 23—14.
Audrieth, Ludwig F., and R. J. A. Otto, to University of Illinois Foundation. Novel phosphonitrilic isothiocyanate derivatives. 3,048,631, 8–7–62, Cl. 260—551.
Aue, Florence L. Kitchen utensil. 3,049,014, 8–14–62, Cl. 73—426.
Auer, Frederick G., and M. Sorkin, to Champlain Co., Inc. Intermittent web feed mechanism. 3,017,796, 1–23–62, Cl. 83—263.
Auer, Heinr, Muhlenwerke K.G.a.A. : *See*—
Neidhardt, Karl. 3,029,917.
Auer, John H., Jr. : *See*—
Kendall, Hugh C., Auer, Bolton, and Frielinghaus. 3,042,303.
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Soule, Robert M., Jr., and Auer. 3,054,894.
Auer, John H., Jr., to General Railway Signal Co. Pulsed ultrasonic detector. 3,045,909, 7–24–62, Cl. 235—92.
Auer, John H., Jr., to General Railway Signal Co. Gate control system for automobile parking areas. 3,046,522, 7–24–62, Cl. 340—51.
Auer, John H., Jr., to General Railway Signal Co. Vehicle parking area gate control system. 3,063,179, 11–13–62, Cl. 39—1.
Auer, John H., Jr., N. A. Bolton, H. C. Kendall, and R. A. Hagen, to General Railway Signal Co. Mounting means for electro-ultrasonic transducers. 3,046,544, 7–24–62, Cl. 340—388.
Auer, Joseph, Jr. : *See*—
Siegel, Moses, and Auer. 3,053,479.
Auer, Leland S., to Grant Oil Tool Co. High pressure reciprocating retriever apparatus. 3,031,742, 5–1–62, Cl. 29—213.
Auerbach, Albert A., E. Berezin, S. Lubkin, and R. F. Shaw, to Curtiss-Wright Corp. Electronic data file processor. 3,017,610, 1–16–62, Cl. 340—172.5.
Auerbach, Isaac L., to Minneapolis-Honeywell Regulator Co. Switching apparatus. 3,041,467, 6–26–62, Cl. 307—88.
Auerbach, Isaac L., to Burroughs Corp. Bistable circuits. 3,045,211, 7–17–62, Cl. 340—172.5.
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Auerbacher, George N., to Champlain Co., Inc. Variable web tension for uniform layoff. 3,025,791, 3–20–62, Cl. 101—181.
Auerswald, Wilhelm, and J. Eibl. Method for the filtration of virus fluids. 3,061,518, 10–30–62, Cl. 167—78.
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Auffrey, Albert J., to Grinnell Corp. Apparatus for controlling air cleaning of roving frames. 3,051,978, 9–4–62, Cl. 15—312.
Aufricht, Gustave. Spectacle supported nasal pressure-applying device. 3,051,168, 8–28–62, Cl. 128—76.
Aufzuge A.G. : *See*—
Eiholzer, Theodor. 3,030,653.
Augat, Inc. : *See*—
Damon, Neil F. 3,061,811.
Auge, Henri P., to Societe des Accumulateurs Fixes et de Traction (Societe Anonyme). Shockproof insulated battery process and product. 3,064,069, 11–13–62, Cl. 136—173.
Auger, Claude H., to General Electric Co. Rotor assembly. 3,056,578, 10–2–62, Cl. 253—39.
Aughenbaugh, Harry E. : *See*—
Anderson, James H., and Aughenbaugh. 3,041,857.
Augsburg-Nurnberg A.G., Maschinenfabrik : *See*—
Bauer, Fritz, and Schörner. 3,043,559.
Dietrich, Paul. 3,026,795.
Dietrich, Paul. 3,043,219.
Ernst, Hellmut. 3,018,901.
Fahlbusch, Heinz, and Hofer. 3,059,916.
Haück, Michael, and Wieser. 3,017,634.
Kirchner, Egon. 3,060,554.
Knecht, Ludwig. 3,070,345.
Meurer, Siegfried. 3,027,207.
Meurer, Siegfried. 3,034,489.
Meurer Siegfried. 3,046,959.
Meurer, Siegfried. 3,053,238.
Meurer, Siegfried, Jaeckel, Wiebicke, and Lachmann. 3,054,390.
Meurer, Siegfried, Wiebicke, Lachmann, and Dusold. 3,020,896.
Schmidt, Ernst. 3,046,069.
Wenczler, Ludwig. 3,019,728.
Wiebicke, Klaus, Jaeckel and Lachmann. 3,035,558.
Augsburger, Herbert M., and H. R. Schutz, to Owens-Illinois Glass Co. Equalizing glass temperature in gathering area of glass furnaces. 3,039,231, 6–19–62, Cl. 49—77.
August Thyssen-Hutte Aktiengesellschaft : *See*—
Spenle, Erwin. 3,060,945.
August, William S., to The Birtcher Corp. Tube mounting device. 3,025,489, 3–13–62, Cl. 339—112.
August, William S., to The Birtcher Corp. Tube shield. 3,047,649, 7–31–62, Cl. 174—35.
Augusta-Zunder Feuerzeugfabrik Mayer & Co. : See—
Todtenhöfer, Horst, 3,018,648.
Augustin, Alex. Compass pencil clamp. 3,020,641, 2–13–62, Cl. 33—27.
Augustin, Darold A., to Bendix-Westinghouse Automotive Air Brake Co. Air hydraulic brake actuator. 3,015,213, 1–2–62, Cl. 60—54.6.
Augustus, Eric, to Licentia Patent-Verwaltungs-G.m.b.H. Course controlling system for vehicles. 3,066,635, 12–4–62, Cl. 114—144.
Augustus, Roy W. Retractable rear view mirror. 3,059,790, 10–23–62, Cl. 214—77.
Auksmann, Boris : *See*—
Dean, Robert C., Jr., and Auksmann. 3,060,894.
Aulbaugh, Johnnie M., C. J. Kramis, and H. T. Siefen, to E. I. du Pont de Nemours and Co. Process for preparing phenyl carbamyl chlorides. 3,020,313, 2–6–62, Cl. 260—544.
Auld, Samuel H., Jr., to Lear, Inc. Motor control having rate feedback. 3,027,505, 3–27–62, Cl. 318—331.
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Aulen, Walter E., to Eddystone Machinery Co. Three-drum winder. 3,045,940, 7–24–62, Cl. 242—66.
Aulen, Walter E., to Eddystone Machinery Co. Winding machine. 3,061,221, 10–30–62, Cl. 242—66.
Ault, John D. Fine grind rock crusher. 3,033,475, 5–8–62, Cl. 241—155.
Ault, Waldo C., and R. O. Feuge, to United States of America, Agriculture. Epoxidized monoglyceride diacetates as plasticizers for polymerized vinyl chloride. 3,050,481, 8–21–62, Cl. 260—23.
Ault, Wayne E., to Automatic Sprinkler Corp. of America. Pressure actuated valve. 3,021,903, 2–20–62, Cl. 169—19.
Aumuller, Franz. Electrically operable chance game. 3,052,472. 9–4–62, Cl. 273—142.
Aümuller, Walter, R. Weyer, and G. Korger, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of N-sulphonyl-N'-acyl-ureas. 3,068,282, 12–11–62, Cl. 260—553.
Aune, Albert W., to McQuay, Inc. Hot gas defrosting refrigerating apparatus. 3,021,693, 2–20–62, Cl. 62—278.
Aurand, James A., and L. S. Lappin, to Radio Corp. of America. Information transmission system. 3,026,504, 3–20–62, Cl. 340—206.

Aurand, La Vern M., and R. E. Schwyn, to General Motors Corp. Spark plugs. 3,042,474, 7–3–62, Cl. 313—141.

Auricord Corp.: *See*—
Berger, Stanley, and Rosenblatt. 3,037,088.

Auricoste, Jean, to Societe d'Electronique et d'Automatisme. Magnetic core time basis devices. 3,070,781, 12–25–62, Cl. 340—174.

Aurnhammer, Robert: *See*—
Koenig, Rudolf, and Aurnhammer. 3,041,384.

Aurora Corp. of Illinois: *See*—
Behning, Henry G. 3,040,614.
Fauser, Richard F. 3,026,760.
Fauser, Richard F. 3,032,455.
Matthews, Birchard L. 3,030,023.

Ausenda, Carlo, and R. Dessalles, to Compagnia Italiana Forme Acciaio S.p.A. Fabrication system. 3,068,721, 12–18–62, Cl. 77—5.

Ausherman, William S. Reversible bar for threshing cylinder. 3,034,513, 5–15–62, Cl. 130—27.

Ausherman, William S. Battery terminal connector. 3,047,-833, 7–31–62, Cl. 339—236.

Ausherman, William S. Cable connector. 3,047,834, 7–31–62, Cl. 339—236.

Auslender, Sidney: *See*—
Edgy, Glenn E., Hahn, and Auslender. 3,038,409.

Ausnit, Steven. Separable fastener. 3,038,225, 6–12–62, Cl. 24—201.

Ausnit, Steven. Separable fastener. 3,049,779, 8–21–62, Cl. 24—201.

Ausnit, Steven, and O. K. Kraus; said Kraus assor. to said Ausnit. Bag closure. 3,054,434, 9–18–62, Cl. 150—3.

Ausserbauer, Helmut, and A. Biernatzki, to Auto Union G.m.b.H. Mounting device for the spark coils of internal combustion engines. 3,042,017, 7–3–62, Cl. 123—195.

Ausserbauer, Helmut R., to Auto-Union G.m.b.H. Crankshaft bearing for two-stroke internal combustion engines. 3,055,-716, 9–25–62, Cl. 308—187.2.

Austel, Fritz, to Bracker AG. Device for simultaneously applying travellers and yarn to traveller rings of spinning and twisting machines. 3,054,248, 9–18–62, Cl. 57—34.

Austen, Herman E., to The National Cash Register Co. Magnetic coil array. 3,051,930, 8–28–62, Cl. 340—174.

Austenson, Herman M. Tree stand. 3,028,132, 4–3–62, Cl. 248—44.

Austgen, Kenneth J., to Pullman Inc. Trainline arrangement for cushion underframe with long travel characteristics. 3,042,223, 7–3–62, Cl. 213—1.

Austin, Amory E., Jr.: *See*—
Fischer, Charles F., and Austin. 3,016,574.

Austin, Chester L.: *See*—
Boyer, Albert J. and G. E., Austin, and Glunt. 3,054,239.

Austin, Floyd C.: *See*—
Misslich, Albert J., and Austin. 3,065,027.

Austin, Glenn M.: *See*—
Seiferth, Oscar E., and Austin. 3,070,446.

Austin, Harold T. Twist-lock rod coupling. 3,065,009, 11–20–62, Cl. 287—103.

Austin, Harry W.: *See*—
Hornickel, Robert R., and Austin. 3,054,111.

Austin, Harry W., to Mine Safety Appliances Co. Adjustable helmet shell suspension. 3,018,483, 1–30–62, Cl. 2—3.

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Austin, Harry W., to Mine Safety Appliances Co. Protective helmet with removable suspension. 3,055,011, 9–25–62, Cl. 2—3.

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Austin, Leonard E., to The Bendix Corp. Conveyor mechanism. 3,055,481, 9–25–62, Cl. 198—40.

Austin, Leonard E., and A. K. Brown, Jr., to The Bendix Corp. Spring assembling mechanism. 3,017,691, 1–23–62, Cl. 29—211.

Austin Motor Co. Ltd., The: *See*—
Highfield, Frank W. W., and Brierley. 3,037,607.
Page, Graham D. 3,035,593.
Payne, Eric R. 3,017,787.
Weaving, John H. 3,070,286.

Austin, Oliver K., to Phillips Petroleum Co. Apparatus for pelleting powdered materials. 3,049,750, 8–21–62, Cl. 18—1.

Austin, Raymond C., and R. F. Strand, to Crown Zellerbach Corp. Fertilizer product, its manufacture and application. 3,024,098, 3–6–62, Cl. 71—29.

Austin, Ted O. Diving boards. 3,035,837, 5–22–62, Cl. 272—66.

Austin, William T., to The Buehler Corp. Steering device for a jet boat. 3,040,526, 6–26–62, Cl. 60—35.55.

Austin, William T., to The Buehler Corp. Intake strainer. 3,040,695, 6–26–62, Cl. 115—14.

Austing, August T. L., and K. Bofinger, to American Can Co. Beading machine. 3,062,263, 11–6–62, Cl. 153—9.

Australia, The Commonwealth of: *See*—
Metcalfe, Kenneth A., and Wright. 3,058,914.

Autem, Fred, to Southern Textile Machinery Co. Inc. Hosiery inspecting apparatus. 3,026,007, 3–20–62, Cl. 223—77.

Autere, Reuben J.: *See*—
Levine, Samuel W., and Autere. 3,022,373.

Auto Arc-Weld Mfg Co., The: *See*—
Cornell, Elliott C., Jr. 3,016,451.
Cornell, Elliott C., Jr. 3,056,102.

Auto-Chlor System, Inc.: *See*—
Palmer, Willis W. 3,053,419.

Auto-Crane Co.: *See*—
Wilkinson, Alvin H. 3,043,549.

Auto-Electronics, Inc.: *See*—
Smith, Gerald D. 3,051,944.

Auto-Mechanical Dock Board, Inc.: *See*—
Layne, Richard C. 3,061,855.

Auto-Pak, Inc.: *See*—
Terry, Morris A. 3,064,542.

Auto Research Corp.: *See*—
Thomas, Thomas R. 3,029,062.
Thomas, Thomas R. 3,052,318.

Auto-Soler Co., The: *See*—
Skelton, Thomas N. 3,066,331.
Watkins, Charles A. 3,023,412.
Wright, John G. 3,017,635.
Wright, John G. 3,034,130.

Auto Specialties Mfg. Co.: *See*—
Rhoads, Millard A. 3,030,073.

Auto-Test, Inc.: *See*—
Marden, Erwin S. 3,027,489.

Auto Union G.m.b.H.: *See*—
Ausserbauer, Helmut R. 3,055,716.
Ausserbauer, Helmut, and Biernatzki. 3,042,017.
Glas, Helmut. 3,055,700.
Schulze, Werner. 3,058,737.

Autoboard Corp., Inc.: *See*—
Glaze, John W., Jr., and Wilson. 3,019,951.
Glaze, John W., Jr., and Wilson. 3,054,542.

Autolok Casters, Inc.: *See*—
Segal, George J. 3,025,930.

Automat Machine Co.: *See*—
Auerbach, Philip R. 3,066,561.

Automated Building Components, Inc.: *See*—
Jureit, John C. 3,025,577.

Automated Circuits Inc.: *See*—
Robinson, Thomas L. 3,024,151.
Robinson Thomas L. 3,060,076.

Automatex Co.: *See*—
Dale, William J. 3,052,469.

Automatic Burner Corp.: *See*—
Hearst, Jack W. 3,027,933.

Automatic Canteen Co. of America: *See*—
Johnson, James F. 3,070,000.
Joschko, Raymond C. 3,053,167.
Mueller, Richard J. 3,019,946.
Mueller, Richard J., and Johnson. 3,059,450.
Reynolds, Donald S., and Turner. 3,047,194.
Surber, Curtis M. 3,045,364.
Thompson, Ernest H. 3,021,030.
Weber, Carl. 3,018,920.

Automatic Electric Laboratories, Inc.: *See*—
Beasley, Harold A. 3,033,933.
Bernstein, Joseph M. 3,028,510.
Boyd, John M. 3,045,882.
Burgener, Karl L. 3,050,592.
Cerofolini, Gabriele F. 3,037,171.
Cerofolini, Gabriele F. 3,060,270.
Cerofolini, Gabriele F. 3,060,386.
Cleary, Robert T. 3,041,404.
Cleary, Robert T., Burns, and Buckstadt. 3,028,452.
Crabtree, Leonard F. 3,070,785.
Dimmer, Robert P. 3,024,324.
Dimmer, Robert P. 3,041,402.
Dimmer, Robert P. 3,050,591.
Esperseth, Maurice H., and Ostline. 3,019,294.
Evans, Robert T. 3,033,934.
Faulkner, Alfred H. Re. 25,139.
Faulkner, Alfred H. 3,024,315.
Faulkner, Alfred H. 3,028,451.
Faulkner, Alfred H. 3,041,400.
Faulkner, Alfred H. 3,046,350.
Faulkner, Alfred H., and Melvin. 3,015,699.
Faulkner, Alfred H., and Melvin. 3,070,665.
Fox, Herman B. 3,050,680.
Gifford, Donald O. 3,065,309.
Huffman Robert L. 3,060,276.
Keenan, Ralph D. 3,056,007.
Kowalik, Ronald F. 3,055,982.
Kuksa, John R. 3,024,317.
Lesser, Norton. 3,024,314.
Lomax, Clarence E. 3,033,932.
Lomax, Clarence E. 3,041,405.
Lomax, Clarence E. 3,050,590.
Lucas, Pierre M., and Rouzier. 3,065,458.
McCreary, Harold J. 3,033,944.
McCreary, Harold J. 3,060,412.
Melvin, Donald K. 3,033,935.
Molnar, Imre. 3,046,344.
Molnar, Imre. 3,046,349.
Murphy, Norbert J. 3,046,341.
Osborn, Peter E. 3,046,348.
Ostline, John E. 3,024,316.
Ostline, John E. 3,070,661.
Ostline, John E. 3,070,664.
Ostline, John E., Coleman, and Taugner. 3,019,295.
Ostline, John E., and Taugner. 3,046,342.
Peterson, Edward S. 3,055,985.

Automatic Electric Laboratories, Inc. : *See*—Continued
Pinet, Andre E. 3,060,268.
Smith, Harrison C., and Jung. 3,055,981.
Smith, Lester L. 3,019,299.
Smith, Lester L. 3,033,931.
Smith, Lester L. 3,055,984.
Starzec, Stanley J. 3,048,267.
Stoehr, Rudolph O. 3,028,573.
Stoffels, Robert E. 3,046,340.
Talcott, Horace A. 3,061,307.
Yosenick, John M. 3,065,315.
Young, John S. 3,033,938.
Automatic Poultry Feeder Co. : *See*—
Kurtz, Aaron H. 3,062,185.
Kurtz, John S. 3,046,940.
Automatic Radio Mfg. Co., Inc. : *See*—
De Metrick, John S. 3,015,726.
Housman, Robert W. 3,035,168.
Automatic Spot Taping Machine Co. : *See*—
Zent, Clayton M. 3,031,368.
Automatic Sprinkler Corp. of America : *See*—
Ault, Wayne E. 3,021,903.
Automatic Steam Products Corp. : *See*—
Sussman, Arthur. 3,049,903.
Automatic Strapping Machines Ltd. : *See*—
Cheesman, John J., and Mills. 3,046,871.
Automatic Switch Co. : *See*—
Spinelli, Frank P., and Castenschiold. 3,047,725.
Automatic Tape Control, Inc. : *See*—
Bailey, Fred L., Jenkins, and Nolte. 3,059,063.
Automatic Telephone & Electric Co. Ltd. : *See*—
Greenaway, John F., Hampson, Halton, and Marwing. 3,067,290.
Halton, Donald. 3,063,016.
Automatic Welding Co. : *See*—
Hinrichsen, Hans V., and Mattson. 3,024,349.
Automation Development Corp. : *See*—
Welch, Elvin C. 3,025,445.
Welch, Elvin C. 3,042,847.
Automation Engineers, Inc. : *See*—
Stine, Lester G. 3,029,919.
Automation Gages, Inc. : *See*—
Polidor, Edward C. 3,040,437.
Automation, Inc. : *See*—
Slattery, Thomas G., and Torrey. 3,049,697.
Automation Industries, Inc. : *See*—
Callihan, Robert E. 3,034,021.
Autometric Corp. : *See*—
Dressler, Robert, and Jacobs. 3,034,723.
Ostrov, Bernard, and Neuwirth. 3,030,619.
Automotive Products Co. Ltd. : *See*—
Rodway, John. 3,068,652.
Senior, William J. 3,039,527.
Automotive Rubber Co., Inc. : *See*—
Johnson, Conway A. 3,063,928.
Autophon Aktiengesellschaft : *See*—
Kappler, Hans, and Streit. 3,028,453.
Streit, Rudolf. 3,068,325.
Tschumi, Otto, Kappeler, Blochlinger, and Zimmermann 3,022,493.
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Autoquip Corp. : *See*—
Clarke, Jesse E. 3,061,887.
Autosonics Inc. : *See*—
Rand, Burton. 3,019,800.
Rand, Burton. 3,049,904.
Au Werter, Jay P. Guard for sight gauge glass and method of making same. 3,046,785, 7–31–62, Cl. 73—325.
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Georges, Felix. 3,057,228.
Auz, Cape E. : *See*—
Talbot, Harry. 3,057,363.
Auzolle, Robert, P. Chaumette, P. Garin, and P. Prugne, to Commissariat a l'Energie Atomique. Vacuum pumps of the getter type. 3,045,842, 7–24–62, Cl. 118—49.
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Avco Aircraft Ltd. : *See*—
Kuzyk, William. 3,058,302.
Avco Corp. : *See*—
Brass, Edward A. 3,051,533.
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Bruck, George. 3,050,712.
Bruck, George, Keene, and Schipper. 3,069,677.
Collins, James T. 3,030,566.
Coulouriotes, James G. 3,043,135.
Doctor, Bernard H., and O'Bryan. 3,015,950.
Domeisen, Karl A. 3,045,482.
Foster, Walter E. 3,022,960.
Franz, Anselm. 3,019,606.
Haslam, Maurice B., and Miles. 3,048,830.
Herndon, James A. 3,064,899.
Hovnanian, Hrair P. 3,051,166.
Hull, Joseph A., and Hotchkiss. 3,044,068.
Kaufman, Bruce A. 3,021,492.
Kneidl, Franz A., and Beattie. 3,016,705.
Kuecken, John A. 3,050,725.

Avco Corp. : *See*—Continued
Laszlo, Tibor S. 3,043,972.
McCarthy, Horace F. 3,043,309.
Midkiff, James C. 3,044,024.
Morin, Orvide G. 3,048,755.
Plogstedt, Allen E., and Bradmiller. 3,070,757.
Raney, Russell R., Bing, and Colwill. 3,025,067.
Raney, Russell R., and Fuhrwerk. 3,070,006.
Rohm, Fredric G. 3,015,322.
Salmon, David F., and Zinn. 3,048,389.
Salmon, David F., and Zinn. 3,048,390.
Shannon, Raymond M. 3,049,626.
Stein, Wolfgang J., and Straniti. 3,045,479.
Tannenbaum, Wesley, Cleary, and Ohlson. 3,043,919.
Wilbur, Irvin M., and Brown. 3,026,469.
Avco Mfg. Corp. : *See*—
Fishman, Frank J., Janes, Kantrowitz, and Petschek. 3,035,206.
Gibson, Robert E., and Kagan. 3,042,880.
Kagan, Sholly. 3,029,808.
Keene, Lee C. 3,058,050.
Medoff, Joseph L. 3,068,462.
Tannenbaum, Wesley, Hudes, and Goldstein. 3,027,425.
Avco Mfg. Corp., Lycoming Div. : *See*—
Votre, Louis S. 3,027,862.
Avdel Ltd. : *See*—
Burrell, Edward J. 3,055,255.
Essex, Alan R. 3,028,777.
Mewse, Charles. 3,068,737.
Avedon, Sam, to Aladin Plastics, Inc. Seating unit. 3,034,830, 5–15–62, Cl. 297—445.
Avel Corp. Geneva : *See*—
Freedman, Harold P. 3,049,706.
Freedman, Harold P., Vielle, and Wiersma. 3,035,260.
Vielle, Eugene E. 3,035,261.
Avelar, Jose D., to Mask-off Co., Inc. Dry transfer decals. 3,065,120, 11–20–62, Cl. 154—46.8.
Aven, Manuel : *See*—
Potter, Ralph M., and Aven. 3,017,366.
Aven, Manuel, to General Electric Co. White electroluminescent phosphor. 3,025,243, 3–13–62, Cl. 252—301.6.
Aven, Manuel, to General Electric Co. White air-fired electroluminescent phosphor. 3,025,244, 3–13–62, Cl. 252—301.6.
Aveni, Anthony, to United States of America, Army. Flexible pin extension adapter plug. 3,035,244, 5–15–62, Cl. 339—156.
Averill, Charles C., to Union Steel Products Co. Stacking crates or receptacles. 3,022,900, 2–27–62, Cl. 211—126.
Averill, Eugene F. : *See*—
Straub, Harold E., and Averill. 3,046,866.
Averill, John R., and S. Lehmann, Jr. Heat pump. 3,062,022, 11–6–62, Cl. 62—402.
Averill, Robert M., Jr., to Bell Telephone Laboratories, Inc. Magnetic memory array. 3,048,826, 8–7–62, Cl. 340—174.
Averill, Seward J. : *See*—
Werber, Frank X., and Averill. 3,056,817.
Averitt, Jules M., to United States of America, Navy. Linearizing circuit for resistance thermometer. 3,052,124, 9–4–62, Cl. 73—362.
Aversa, Joseph. Applicators. 3,016,560, 1–16–62, Cl. 15—510.
Aversa, Joseph. Applicators. 3,023,449, 3–6–62, Cl. 15—570.
Aversa, Joseph. Applicators. 3,056,996, 10–9–62, Cl. 15—510.
Aversa, Joseph. Cosmetic implements. 3,062,189, 11–6–62, Cl. 120—18.
Aversa, Joseph. Cosmetic implements. 3,062,190, 11–6–62, Cl. 120—18.
Avery Adhesive Products, Inc. : *See*—
Hoffman, Harry J. 3,028,280.
Morgan, Burton D. 3,035,957.
Avery-Hardoll Ltd. : *See*—
Fraser, John. 3,027,765.
Avery, Harold T., to Smith-Corona Marchant, Inc. Knob-set division line-up mechanism. 3,032,262, 5–1–62, Cl. 235—63.
Avery, Ralph W. Tent installation. 3,044,476, 7–17–62, Cl. 135—1.
Avery, Richard L. Image stabilizer and dimmer for optical devices. 3,021,752, 2–20–62, Cl. 88—32.
Avery W. & T., Ltd. : *See*—
Chilton, John M. 3,030,569.
Chilton, John M. 3,064,182.
Lethbridge, Ernest. 3,067,828.
Aves, William L., Jr., to United States of America, Navy. Metal-ceramic laminated coating and process for making the same. 3,054,694, 9–18–62, Cl. 117—70.
Aves, William L., Jr., and R. A. Hart, to United States of America, Navy. Metal-ceramic laminated skin surface. 3,031,331, 4–24–62, Cl. 117—46.
Avien, Inc. : *See*—
Bogner, Richard D. 3,015,821.
De Graffenried, Albert L. 3,038,097.
Kadlec, Ladislav. 3,042,866.
Koltesky, Harold S., and Berkowitz. 3,017,524.
Avila, Abelardo G., to Capitol Products Corp. Roll making apparatus. 3,023,713, 3–6–62, Cl. 107—7.
Avila, Arthur J., to Western Electric Co., Inc. Method of and means for ultrasonic energy bonding. 3,051,826, 8–28–62, Cl. 219—128.
Aviles, Harvey N., and L. W. Nickles, to Western Electric Co., Inc. Gauging apparatus. 3,061,937, 11–6–62, Cl. 33—174.

Avinor, Michael, to North American Philips Co., Inc. Red luminescent material for cathode-ray tubes. 3,053,772, 9–11–62, Cl. 252—301.6.
Avins, Jack: *See*—
Rhodes, Roland N., and Avins. 3,046,335.
Avins, Jack, to Radio Corp. of America. Stereophonic sound signalling system. 3,068,475, 12–11–62, Cl. 343—200.
Aviolat, Jean. Protective case for a music box. 3,031,071, 4–24–62, Cl. 206—47.
Avis, Arthur S., to Vickers-Armstrongs (Aircraft) Ltd. Cable-breaking apparatus. 3,052,426, 9–4–62, Cl. 242—107.3.
Avis Industrial Corp.: *See*—
Goran, Leo, Jr. 3,063,213.
Avo Ltd.: *See*—
Attwood, William H., Sewell, and Wilkins. 3,031,153.
Avog Elektro -und Feinmechanik G.m.b.H.: *See*—
Hoyler, Alfred E. 3,016,766.
Mohr, Adolf. 3,042,817.
Avon India Rubber Co. Ltd., The: *See*—
Spencer, Jack C., and Whitmore. 3,031,089.
Avril, Arthur C., to A and T Development Corp. Concrete roof and wall structure. 3,064,392, 11–20–62, Cl. 50—147.
Avril, Jean: *See*—
Zandman, Felix, and Avril. 3,034,344.
Zandman, Felix, and Avril. 3,062,087.
Avro Aircraft Ltd.: *See*—
Frost, John C. M. 3,020,002.
Frost, John C. M. 3,024,966.
Frost, John C., and Earl. 3,018,068.
Frost, John C. M., and Earl. 3,022,963.
Frost, John C. M., and Williams. 3,020,003.
Frost, John C. M., and Williams. 3,051,415.
Frost, John C. M., and Williams. 3,051,417.
Avtges, James A., J. W. Harrison, and R. G. Shaver, to W. R. Grace & Co. Transparent soda lime cartridge. 3,047,370, 7–31–62, Cl. 23—259.
Aweida, Jesse L., and R. B. Humphrey, to International Business Machines Corp. Overlap detector. 3,026,419, 3–20–62, Cl. 250—219.
Awerkamp, John B. Air operated water valve for concrete mixing plant or the like. 3,038,691, 6–12–62, Cl. 251—31.
Awtrey, Joseph, Jr., and W. M. Jewett. Radio interference calculator. 3,050,249, 8–21–62, Cl. 235—78.
Axer, Heinrich, W. F. Hölken, and O. W. Ufert, to Schiess Aktiengesellschaft. Arrangement for regulating the height of the lubricating film on the slide tracks of machine tools. 3,032,142, 5–1–62, Cl. 184—5.
Axlid, Sven A., and H. A. Ortmark, to Arenco Aktiebolag. Control device for a packing machine associated with one or more weighing machines for automatic weighing of predetermined batches of material. 3,024,816, 3–13–62, Cl. 141—83.
Axon, Ernest E., R. K. Kyffin, and W. T. Frost, to Marconi's Wireless Telegraph Co. Ltd., and Standard Telephones & Cables Ltd. Recording of television programmes. 3,064,076, 11–13–62, Cl. 178—5.8.
Axsom, Everett. Entomologist's egg separator. 3,036,710, 5–29–62, Cl. 209—291.
Axt, Gunter P. R., to Chlorator, G.m.b.H. Device for supervising the oxygen content in water. 3,068,684, 12–18–62, Cl. 73—19.
Axtell, Harold B. Method and apparatus for securing a stud or screw. 3,058,211, 10–16–62, Cl. 29—509.
Axtell, Willard G.: *See*—
Garmon, Lee F., Jr., and Axtell. 3,034,327.
Axtell, Willard G., to Shwayder Bros., Inc. Luggage case. 3,029,915, 4–17–62, Cl. 190—49.
Axtell, William R., J Byron Bingeman, and A. P. Giraitis, to Ethyl Corp. Process of purifying cyclopentadienyl nickel nitrosyl compounds. 3,067,227, 12–4–62, Cl. 260—439.
Axtmann, Harold G., to General Motors Corp. Trailing arm torsion bar suspension. 3,037,762, 6–5–62, Cl. 267—11.
Axtmann, Harold G., to General Motors Corp. Leaf spring independent suspension with height control. 3,034,802, 5–15–62, Cl. 280—96.2.
Ayala, Carl: *See*—
Buh, William F., Jr., and Ayala. 3,046,683.
Ayala, Carl, to M. I. Glass. Toy. 3,029,556, 4–17–62, Cl. 46—196.
Ayala, Carl, to M. I. Glass. Toy. 3,063,192, 11–13–62, Cl. 46—118.
Aydelott, John C., and W. W. Peters, to General Electric Co. Automatically regulated radiator type cooling sytem. 3,067,817, 12–11–62, Cl. 165—34.
Aye, Raymond. Animated pull toy. 3,066,442, 12–4–62, Cl. 46—90.
Ayer, Donald E., to The Upjohn Co. Process for the preparation of fluorosteroids. 3,056,807, 10–2–62, Cl. 260—397.3.
Ayer, Donald E. to The Upjohn Co. 15 β-fluorinated corticosteroids. 3,056,808, 10–2–62, Cl. 260—397.3.
Ayer, Donald E., and W. P. Schneider. 16-halo steroids. 3,027,383, 3–27–62, Cl. 260—397.1.
Ayers, Buell O.: *See*—
De Ford, Donald D., and Ayers. 3,043,127.
Ayers, Buell O., to Phillips Petroleum Co. Analyzer. 3,043,128, 7–10–62, Cl. 73—23.
Ayers, Buell O., to Phillips Petroleum Co. Chromatographic analyzer. 3,062,038, 11–6–62, Cl. 73—23.
Ayers, Buell O., to Phillips Petroleum Co. Chromatographic analysis. 3,062,039, 11–6–62, Cl. 73—23.
Ayers, Chesley, and W. J. Bailey, to Acme Roofing and Sheet Metal Co. Portable concrete mixing, foamating and dispensing machine. 3,017,164, 1–16–62, Cl. 259—151.
Ayers, David T., Jr., to Kelsey-Hayes Co. Fluid pressure operated brake mechanism. 3,051,530, 8–28–62, Cl. 303—6.
Ayers, David T., Jr., and E. G. Hill, to Kelsey-Hayes Co. Power brake mechanism. 3,067,727, 12–11–62, Cl. 121—38.
Ayers, George W., and W. A. Krewer, to Pure Oil Co. Distilling alkylate product with thiophenylamine. 3,038,017, 6–5–62, Cl. 260—683.62.
Ayers, George W., and W. A. Krewer, to The Pure Oil Co. Alkylation process. 3,046,318, 7–24–62, Cl. 260—683.63.
Ayers, George W., and W. A. Krewer, to The Pure Oil Co. Process of reducing the acid neutralization number of crude petroleum. 3,061,540, 10–30–62, Cl. 208—263.
Ayers, Harry H.: *See*—
Anderson, Collie W., Stinnett, and Ayers. 3,069,884.
Ayers, John S.: *See*—
Brown, Alvin M., Ayers, Shields, Maloney, and Kmiecik. 3,020,834.
Brown, Alvin M., Ayers, Shields, Maloney, and Kmiecik. 3,049,992.
Ayers, Joseph W., to Agrashell, Inc. Adhesive composition containing lignocellulose and extracted lignin and plywood laminate thereof. 3,017,303, 1–16–62, Cl. 154—45.9.
Ayers, Joseph W., and R. A. Stephens, to C. K. Williams & Co. Gamma ferric oxide for magnetic impulse record members. 3,015,627, 1–2–62, Cl. 252—62.5.
Ayers, Joseph W., and R. A. Stephens to C. K. Williams & Co. Ferroso-ferric oxide for magnetic impulse record members. 3,015,628, 1–2–62, Cl. 252—62.5.
Ayers Ltd.: *See*—
Jones, Idris W. 3,049,153.
Ayiende Colori Nayionali Affini ACNA S.p.A.: *See*—
Gaetani, Ermanno. 3,045,004.
Aykanian, Ardashus A., to Monsanto Chemical Co. Method for laminating paper and textile materials to foamed thermoplastic resin forms. 3,062,698, 11–6–62, Cl. 156—306.
Aymar, Julian R. Electrical contact. 3,039,076, 6–12–62, Cl. 339—252.
Aymar, Julian R. Electrical contact devices. 3,054,083, 9–11–62, Cl. 339—213.
Aymar, Robert H., and E. R. Weiner, to We-Mar, Inc. Foot control valve device. 3,019,810, 2–6–62, Cl. 37—495.
Aymar, Robert H., and E. R. Weiner, to We-Mar, Inc. Dental handpiece with removable turbine-and-bearing assembly and liquid cooled burr. 3,060,581, 10–30–62, Cl. 32—27.
Aymar, Robert H., and E. R. Weiner, to We-Mar, Inc. Foot control valve assembly for dental handpieces. 3,067,765, 12–11–62, Cl. 137—375.
Ayotte, Edward T. Process of converting a low pitch house to a house of higher pitch. 3,040,479, 6–26–62, Cl. 50—531.
Ayotte, Joseph R. Adjustable safety razor. 3,015,158, 1–2–62, Cl. 30—41.
Ayre, Comler M., to Strachan & Henshaw Ltd. Variable size paper folding machines. 3,059,921, 10–23–62, Cl. 270—72.
Ayre, Vivian E., to United States of America, Navy. Auxiliary power supply. 3,041,465, 6–26–62, Cl. 307—64.
Ayres, Gilbert B.: *See*—
Eynkbuwt, Henry J., and Ayres. 3,043,067.
Ayres, Henry S., to Cabot Corp. Flexible roller conveyor. 3,045,791, 7–24–62, Cl. 193—35.
Ayres, Henry S., and D. C. Tatum, to Cabot Corp. Overslipping device. 3,036,415, 5–29–62, Cl. 53—170.
Ayres, Waldemar A., to The Singer Mfg. Co. Automatic reversal stitch sewing mechanisms. 3,025,809, 3–20–62, Cl. 112—158.
Ayres, Wesley P., J. L. Melchor, and P. H. Vartanian, Jr., to Sylvania Electric Products Inc. Frequency changer. 3,059,108, 10–16–62, Cl. 250—20.
Aytes, Clay, to F. R. Bradford. Combination lock mechanism. 3,062,282, 11–13–62, Cl. 70—163.
Ayton, William R., W. H. Ginnings, and R. P. Hocking, to Belling & Lee, Ltd. Method and apparatus for slitting tubes. 3,020,636, 2–13–62, Cl. 29—533.
Azan, Andrew, to Aristo Grid Lamp Products, Inc. Prestabilized cold cathode light source. 3,026,410, 3–20–62, Cl. 240—11.4.
Azar, Richard. Calculator. 3,053,447, 9–11–62, Cl. 235—70.
Azari, Eric, A. E. Gray, H. J. Malin, A. M. Nelson, and H. B. Thompson, to The Magnavox Co. Card processing apparatus. 3,029,021, 4–10–62, Cl. 235—61.11.
Azari, Eric, J. B. Wiener, and E. W. Greenstadt, to Magnavox Co. Card processing system. 3,037,625, 6–5–62, Cl. 209—72.
Azari, Eric, V. E. Mondt, and H. J. Malin, to The Magnavox Co. Card transport system. 3,069,156, 12–18–62, Cl. 271—5.
Azbe Corp.: *See*—
Azbe, Victor J. 3,033,545.
Azbe, Victor J., to Azbe Corp. Firing apparatus for kilns. 3,033,545, 5–8–62, Cl. 263—29.
Azelickis, Alexis, M. N. Lanford, and R. L. Osborn, to Oak Mfg. Co. Electrical apparatus. 3,024,423, 3–6–62, Cl. 330—70.
Azevedo, Robert: *See*—
Gaetani, Ermanno. 3,028,376.
Rupert, William A. 3,060,450.
Rupert, William A. 3,061,264.
Aziende Chimiche Ruinite Francesco Angelini: *See*—
Palazzo, Giuseppe. 3,061,634.
Azienda Colori Nazionali Affini ACNA S.p.A.: *See*—
Gaetani, Ermanno. 3,049,532.

Azoplate Corp.: *See*—
Neugebauer, Wilhelm, Heiss, Uhlig, and Rebenstock. 3,028,804.
Neugebauer, Wilhelm, Süs, and Rebenstock. 3,050,388.
Neugebauer, Wilhelm, Sus, and Rebenstock. 3,061,429.
Neugebauer, Wilhelm, Sus, and Rebenstock. 3,062,644.
Neugebauer, Wilhelm, Süs, and Stumpf. 3,050,387.
Neugebauer, Wilhelm, and Tomanek. 3,028,239.
Neugebauer, Wilhelm, and Tomanek. 3,070,443.
Schiesinger, Heinz. 3,066,023.
Schmidt, Maximilian P. 3,046,110.
Schmidt, Maximilian P. 3,046,111.
Schmidt, Maximilian P. 3,046,116.
Schmidt, Maximilian P. 3,046,118.
Schmidt, Maximilian P. 3,046,121.
Schmidt, Maximilian P. 3,046,124.
Schmidt, Maximilian P., Neugebauer, and Rebenstock. 3,046,131.
Schmidt, Maximilian P., and Süs. 3,029,146.
Schmidt, Maximilian P., and Süs. 3,046,112.
Schmidt, Maximilian P., and Süs. 3,046,113.
Schmidt, Maximilian P., and Süs. 3,046,115.
Schmidt, Maximilian P., and Süs. 3,046,120.
Süs, Oskar. 3,046,114.
Süs, Oskar. 3,046,117.
Süs, Oskar. 3,046,119.
Süs, Oskar. 3,046,122.
Süs, Oskar. 3,050,389.
Süs, Oskar, and Glos. 3,046,126.
Süs, Oskar, Neugebauer, and Schmidt. 3,046,123.
Tomanek, Martha, and Neugebauer. 3,061,435.
Uhlig, Fritz, Endermann, and Neugebauer. 3,061,430.
Azorlosa, Julian L., and A. J. Martinelli, to General Aniline & Film Corp. Dehydration process. 3,062,737, 11–6–62, Cl. 210—22.
Azzarri, Orlando. Containers for disk-shaped articles. 3,069,-213, 12–18–62, Cl. 312—10.
B.B. Chemical Co.: *See*—
Griswold, Stanley M. 3,021,240.
Griswold, Stanley M. 3,022,188.
Griswold, Stanley M. 3,029,450.
Murray, Robert E. 3,030,305.
Phillips, Ferdinand N., Jr., Morris, and Chaplick. 3,020,169.
B.G. Corp.: *See*—
Ames, Robert G. 3,034,205.
B J Service, Inc.: *See*—
Scott, Lyle B. 3,039,531.
Willis, Dale E. 3,039,302.
B-M-B Co., Inc.: *See*—
Bottenberg, Warren E. 3,059,398.
BMW Triebwerkbau G.m.b.H.: *See*—
Leibach, Heinrich G. 3,035,790.
Schroeder, Hans J. 3,021,675.
B.P.L. (Instruments) Ltd.: *See*—
Hale, Rodney B. 3,035,438.
B & R Ladder Enterprises, Inc.: *See*—
Padlo, Thelma E. 3,024,864.
B S Service, Inc.: *See*—
Meiklejohn, Robert F. 3,066,734.
BTR Industries Ltd.: *See*—
Birkin, Bernard G. 3,042,995.
Glover, Wilfrid. 3,038,833.
BTR Industries Ltd. (formerly British Tyre & Rubber Co. Ltd.): *See*—
Glover, Wilfrid, and Tudor. 3,063,884.
B.U.T.C.O.N. Sales Division (Proprietary) Ltd.: *See*—
Back, Hymie. 3,021,159.
B & W Inc.: *See*—
Solum, James R. 3,040,405.
Solum, James R., and Hempel. 3,070,168.
B-W Metal Works, Inc.: *See*—
Buehler, Albert E. 3,018,077.
B. X. Plastics Ltd.: *See*—
Mills, Derek J., and Tice. 3,051,985.
Nicholas, Donald C., and Hempstead. 3,046,599.
Smith, Robert R., Mann, and Bevis. 3,066,085.
Smith, Robert R., Mann, and Logie. 3,066,115.
Baak, Albert E. Furnace fan control. 3,020,371, 2–6–62, Cl. 200—122.
Baans, Cornelis M. E.: *See*—
Schoot, Cornelis J., and Baans. 3,057,925.
Baars, William E., and S. E. Bednarz, to Thermotank Inc. Automatic air valve. 3,037,528, 6–5–62, Cl. 138—46.
Baas, Erwin. Brake means for vehicles, especially airplanes. 3,033,498, 5–8–62, Cl. 244—110.
Baas, Erwin. Loader for vehicles, tractors, or the like. 3,064,819, 11–20–62, Cl. 214—145.
Baasch, Thomas L., to Servo Corp. of America. Flake thermistor. 3,054,977, 9–18–62, Cl. 338—18.
Baasland, Torjus G. Foldable work-bench. 3,070,138, 12–25–62, Cl. 144—286.
Babajoff, Nicholas R. Perforated board clip retainer. 3,069,-122, 12–18–62, Cl. 248—223.
Babayan, Vigen K.: *See*—
Knafo, Guy, Fuhrmann, Neesby, and Babayan. 3,021,324.
Babayan, Vigen K., and G. N. Comes, to Drew Chemical Corp. Glyceryl lacto esters in coatings. 3,051,577, 8–28–62, Cl. 99—118.
Babb, Marvin O. Apparatus for preparing baled insulation material for gas entrainment. 3,051,398, 8–28–62, Cl. 241—136.
Babbitt, B. T., Inc.: *See*—
Perlman, Jacob L., and Norden. 3,031,408.
Perlman, Jacob L., and Norden. 3,031,409.
Babbitt, George J., to The Sectional Die Co. Blank carrier for sheet metal strip and method for making same. 3,015,-879, 1–9–62, Cl. 29—193.5.
Babbitt, Jackson R.: *See*—
Pfluger, Robert D., and Babbitt. 3,068,796.
Babbitt, John F. Ventilating apparatus. 3,036,509, 5–29–62, Cl. 98—34.
Babbitt, John F., to Middletown Mfg. Co. Rocking chair with declining legs. 3,070,342, 12–25–62, Cl. 248—376.
Babbs, Cyrus H.: *See*—
Hammans, Reginald H., Holt, and Babbs. 3,067,282.
Babcock, Clarence L., to Owens-Illinois Glass Co. Glass colorant compositions. 3,024,120, 3–6–62, Cl. 106—52.
Babcock, Clarence L., to Owens-Illinois Glass Co. Articles bonded together by internally nucleated devitrified solder glasses and method of making the same. 3,063,198, 11–13–62, Cl. 49—77.
Babcock, David L., and W. A. Martin, to Eastman Kodak Co. Mechanism for adjusting diaphragm-vane pivots to compensate for changes in film speed. 3,062,119, 11–6–62, Cl. 95—64.
Babcock, Eugene W., to Libbey-Owens-Ford Glass Co. Sheet glass bending apparatus. 3,023,542, 3–6–62, Cl. 49—67.
Babcock, Gordon L., to Knapsic Electro-Physics, Inc. Servo control. 3,024,400, 3–6–62, Cl. 318—308.
Babcock, Henry A., and R. R. Nelson. Continuous reading densimeter. 3,023,624, 3–6–62, Cl. 73—453.
Babcock, John C.: *See*—
Campbell, J. Allan, and Babcock. 3,029,263.
Pederson, Raymond L., and Babcock. 3,019,237.
Pederson, Raymond L., Babcock, and Hogg. 3,067,218.
Babcock, John C., J. A. Campbell, M. E. Herr, J. A. Hogg, and R. L. Pederson, to The Upjohn Co. 6-fluoro androstanes. 3,016,387, 1–9–62, Cl. 260—397.3.
Babcock, John C., and W. J. Wechter, to The Upjohn Co. 11α-allylated 11β-hydroxy-5β-pregnane-3,20-dione bisoximes and process. 3,019,244, 1–30–62, Cl. 260—397.5.
Babcock, John C., and J. A. Campbell, to The Upjohn Co. Steroidal 11-oximes and a process for their production. 3,064,013, 11–13–62, Cl. 260—397.3.
Babcock, John C., and R. L. Pederson, to The Upjohn Co. 4-alkyl compounds of the androstane series and esters thereof. 3,070,612, 12–25–62, Cl. 260—397.4.
Babcock, Roger S.: *See*—
Kelley, Dewitt T., Babcock, and Holub. 3,033,133.
Babcock, Scott R., and H. E. Peterson, to American Brake Shoe Shoe Co. Electrical heating apparatus. 3,042,786, 7–3–62, Cl. 219—50.
Babcock & Wilcox Co., The: *See*—
Allardt, Ernst W. 3,065,329.
Armstrong, Frank W., Jr., and Carpenter. 3,035,157.
Blaser, Robert U. 3,066,088.
Braddy, De Carr C. 3,048,154.
Brash, Leslie O. 3,055,348.
Brister, Paul M., and Nelken. 3,060,908.
Carpenter, Otis R., and Armstrong. 3,059,099.
Castiglia, Frank J. 3,039,645.
Durham, Edwin. 3,020,895.
Durham, Edwin, and Weaver. 3,028,844.
Edgecombe, David A. 3,063,560.
Edgecombe, David A., Walker, and Church. 3,061,093.
Evans, Sidley O. 3,015,154.
Evans, Sidley O. 3,015,387.
Fitz Patrick, Donald B. 3,055,321.
Gibson, W. J., and Gibbons. 3,056,286.
Gibson, Walter J., De Stephen, and Allardt. 3,056,285
Gilbart, Jack S. 3,045,316.
Hamilton, Carl C., and Hurst. 3,022,774.
Hamilton, Carl C., and Santucci. 3,055,349.
Hamilton, Newell. 3,052,936.
Hardgrove, Ralph M. 3,048,131.
Hartwig, Frederick J. 3,023,141.
Iddles, Alfred, and Savoye. 3,033,538.
Koch, Paul H. 3,033,178.
Koch, Paul H., and Hughes. 3,033,177.
Kolling, Johann. 3,027,882.
Kolling, Johann. 3,045,340.
Marshall, David M. 3,032,097.
Marshall, David M. 3,055,416.
Marskell, Walter G. 3,018,547.
Matty, Robert E. 3,026,240.
McCullough, James D. 3,055,651.
McDaniels, John D., Jr. 3,037,120.
Montgomery, Donald W. 3,046,403.
Musat, George, and Poole. 3,049,085.
Nelson, James R. 3,040,720.
Pearson, Leonard. 3,050,018.
Poole, Edward M., and Schluderberg. 3,063,926.
Rosahl, Otto. 3,052,221.
Rowand, Will H. 3,020,894.
Rudd, Alexander H. 3,060,903.
Schoessow, Earl E. 3,055,538.
Schott, Donald E. 3,031,210.
Seidl, Herbert, and Sifrin. 3,056,388.
Steever, Andrew B. 3,018,174.
Whitelaw, Robert L. 3,025,228.
Wylie, Robert D. 3,023,098.
Zoller, Ronald E. 3,033,179.

Babcock & Wilcox Ltd. : *See—*
Arms, Henry S., Wolff, and Rooney. 3,070,533.
Ballantine, John M. 3,044,714.
Brown, Alexander B., Martin, and Morrow. 3,065,117.
Campbell, Iain B. 3,019,990.
Dumpleton, Owen W. 3,020,027.
Evans, Richard H. 3,060,904.
Evans, Richard H. 3,068,507.
Evans, Richard H., and Purple. 3,034,485.
Hartwig, Frederick J., and Norton. 3,066,504.
Hellwig, Günter. 3,048,152.
Jones, Gerwyn. 3,068,629.
Kooistra, Lambert F. 3,070,534.
Mary, Francis J. 3,048,017.
Pacault, Pierre H. 3,032,999.
Poole, Arthur J. 3,067,808.
Schaap, Willem F. C. 3,033,535.
Shakeshaft, Frederick. 3,016,711.
Taylor, Anthony J., and Worlepy. 3,070,536.
Tollow, Frederick S. 3,044,717.
Weldron, Stoddard S. 3,049,105.
Wootton, William R. 3,020,225.

Babel, Edwin F., Jr., to International Paper Co. Container and blank therefor. 3,048,322, 8–7–62, Cl. 229—34.

Babel, Paul V. : *See—*
Dayger, Jonas E., Salani, Hailey, Laurer, and Babel. 3,029,019.

Babelay, Edwin F., to United States of America, Atomic Energy Commission. Flexible coupling. 3,020,736, 2–13–62, Cl. 64—8.

Baber, Thompson, and J. Gelb, to Hughes Aircraft Co. Acceleration and vibration resistant lamp. 3,027,481, 3–27–62, Cl. 313—110.

Babin, Alexander, to Crown Zellerbach Corp. Two-pack toilet tissue dispenser. 3,017,055, 1–16–62, Cl. 221—34.

Babiy, John S. : *See—*
Warnsdorfer, Clifford J., Jr., Ferenczy, and Babiy. 3,057,536.

Babkes, William J. Auxiliary garment support. 3,036,748, 5–29–62, Cl. 223—88.

Bablouzian, Leon M., and G. H. Hall, to Arthur D. Little Inc. Bowling alley for the blind. 3,039,771, 6–19–62, Cl. 273—37.

Babson, Arthur L., to Warner-Lambert Pharmaceutical Co. Method of determining glutamic-oxalacetic transaminase and composition therefor. 3,069,330, 12–18–62, Cl. 195—103.5.

Babson Bros. Co. : *See—*
Babson, Henry B. 3,033,161.
Babson, Henry B. 3,053,225.
Babson, Henry B. 3,053,272.
Merritt, Thomas W., and Thomas. 3,015,306.
Tieken, Theodore D. 3,055,385.

Babson, Henry B., to Babson Bros. Co. Milker support. 3,033,161, 5–8–62, Cl. 119—14.13.

Babson, Henry B., to Babson Bros. Co. Milk handling system. 3,053,225, 9–11–62, Cl. 119—14.18.

Babson, Henry B., to Babson Bros. Co. Vacuum regulator 3,053,272, 9–11–62, Cl. 137—505.13.

Bac, Fernand G. Multiple plug and socket coupling. 3,017,603, 1–16–62, Cl. 339—198.

Bac-A-Brand Products, Inc. : *See—*
Kuber, Abraham. 3,064,271.

Baccarelli, José M. Underlining device for typewriter machines. 3,019,880, 2–6–62, Cl. 197—113.

Bacchi, Ray, to Baldwin-Lima-Hamilton Corp. Electromanual operator. 3,031,899, 5–1–62, Cl. 74—625.

Bacchi, Ray, to Baldwin-Lima-Hamilton Corp. Position limit switch. 3,036,167, 5–22–62, Cl. 200—38.

Bach Auricon, Inc. : *See—*
Berndt, Eric M., and Bach. 3,040,134.

Bach, Chester C., A. J. Clark, W. D. Drukker, G. H. Klenke, E. N. Lenk, and H. F. Runge, to Western Electric Co., Inc. Automatic wiring machine. 3,016,448, 1–9–62, Cl. 219—79.

Bach, Edward W. Tool. 3,050,733, 8–28–62, Cl. 1—49.8.

Bach, Hartwig : *See—*
Rosenmund, Karl W., and Bach. 3,048,599.

Bach, Henry J. : *See—*
Reymann, George L., and Bach. 3,040,781.
Roeser, Gerald P., and Bach. 3,016,309.

Bach, Henry J., to Martin-Marietta Corp. Coating compositions comprising vinyl chloride-vinylidene chloride copolymer and aldehyde-ketone condensation product modifier and articles therewith. 3,043,714, 7–10–62, Cl. 117—75.

Bach, Walter H. : *See—*
Berndt, Eric M., and Bach. 3,040,134.

Bachand, Stephen F., and W. J. Trolson. Basketball practice device. 3,050,305, 8–21–62, Cl. 273—1.5.

Bacharach Industrial Instrument Co. : *See—*
Stein, Joseph A. 3,066,527.

Bache, John K., and G. German. Spring cushioning devices. 3,020,037, 2–6–62, Cl. 267—1.

Bachelder, Albert J., and V. K. Eloranta, to Polaroid Corp. Photographic film unit. 3,053,160, 9–11–62, Cl. 95—72.

Bacheldor, Robert W., to General Motors Corp. Method and apparatus for melting aluminum in a salt bath rotary furnace. 3,070,437, 12–25–62, Cl. 75—65.

Bachelet, Albert E., to Bell Telephone Laboratories, Inc. Signaling system. 3,036,163, 5–22–62, Cl. 179—84.

Bachelet, Albert E., to Bell Telephone Laboratories, Inc. Alarm signaling system. 3,061,679, 10–30–62, Cl. 179—5.

Bacher, Eric, to Paillard S.A. Typewriters of which the striking of the keys is controlled electrically. 3,036,686, 5–29–62, Cl. 197—113.

Bacher, Eric, to Paillard S.A. Storage means for calculating machines. 3,036,761, 5–29–62, Cl. 235—61.

Bacher, Eric, to Paillard S.A. Movable stop devices for calculating machines. 3,053,442, 9–11–62, Cl. 235—60.

Bacher, Eric, to Paillard S.A. Device for the control of operations particularly for a typewriter. 3,061,187, 10–30–62, Cl. 235—60.5.

Bacher, Hans E., and R. R. La Marre, to Aeroquip Corp. Method of securing a fitting to a reinforced hose. 3,044,163, 7–17–62, Cl. 29—506.

Bacher, Hans E., and R. R. La Marre, to Aeroquip Corp. Adjustment fitting for reinforced hose in which a seal is maintained during adjustment. 3,055,682, 9–25–62, Cl. 285—149.

Bachle, Carl F., to Continental Aviation and Engineering Corp. Internal combustion turbine engine. 3,018,625, 1–30–62, Cl. 60—39.65.

Bachleder, Louis J., and G. J. Brazeal. Shock absorbing shipping container. 3,044,608, 7–17–62, Cl. 206—46.

Bachli, Herman, and B. B. Shapiro, to Chicago Specialty Mfg. Co. Valve means for toilet flush tanks. 3,059,242, 10–23–62, Cl. 4—57.

Bachman, Don F. Portable planter. 3,041,782, 7–3–62, Cl. 47—39.

Bachman, Gustave B., and N. W. Standish, to Purdue Research Foundation. Process for the production of nitroalkenes and nitroalcohols. 3,037,061, 5–29–62, Cl. 260—638.

Bachman, Gustave B., and T. Hokama, to Purdue Research Foundation. Beta-hydroxy alkyl ethers of oximes and production thereof. 3,040,097, 6–19–62, Cl. 260—566.

Bachman, Gustave B., and T. Hokama, to Purdue Research Foundation. Production of alpha-nitroketones. 3,040,100, 6–19–62, Cl. 260—592.

Bachman, Gustave B., and R. O. Downs, to Purdue Research Foundation. Process for the preparation of bromonitroalkanes. 3,054,829, 9–18–62, Cl. 260—644.

Bachman, Gustave B., and G. C. Goldfinger, to Purdue Research Foundation. Production of nitrohydrocarbons. 3,054,827, 9–18–62, Cl. 260—644.

Bachman, Gustave B., and B. R. Bluestein, to Purdue Research Foundation. Process for producing a complex of boron trifluoride and nitrogen tetroxide. 3,061,404, 10–30–62, Cl. 23—14.

Bachman, William S. : *See—*
Moore, Stanley C., Rollins, and Bachman. 3,063,759.

Bachman, William S., to Columbia Broadcasting System, Inc Phonograph record cutter. 3,053,943, 9–11–62, Cl. 179—100.41.

Bachman, William S., and L. R. Porrata, to Columbia Broadcasting System, Inc. Ceramic reproducer. 3,055,989, 9–25–62, Cl. 179—100.41.

Bachmann Bros., Inc. : *See—*
McNeill, Albert G. 3,040,881.

Back, Alexander E., R. R. Beck, and C. E. Selin, to Kennecott Copper Corp. Pyrometallurgical process for the separation of columbium and tantalum. 3,057,714, 10–9–62, Cl. 75—1.

Back, Hymie, to B.U.T.C.O.N. Sales Division (Proprietary) Ltd. Improvements in means for connecting tubular, rod-like or other structural members. 3,021,159, 2–13–62, Cl. 287—54.

Backe, John C. Boat anchoring system. 3,062,168, 11–6–62, Cl. 114—206.

Backensto, Arthur B. : *See—*
Baynes, Gene P., Bickelhaupt, and Backensto. 3,064,343.

Backer, William E., to Norton Co. Torque responsive control for a driven means. 3,015,195, 1–2–62, Cl. 51—165.

Backers, Franciscus T., and J. H. Wessels, to North American Philips Co., Inc. Method of recording and/or reproducing high frequency signals. 3,053,942, 9–11–62, Cl. 179—100.2.

Backhaul, Inc. : *See—*
Turner, George W. 3,033,606.

Backhaus, Karl E., to Diehl KG. Track chain for vehicles. 3,020,095, 2–6–62, Cl. 305—57.

Backhoff, Harold A. W., and R. Beech, to Egry Ltd. Apparatus for feeding continuous webs of stationery. 3,031,952, 5–1–62, Cl. 101—57.

Backman, Gustav A., and W. C. G. Ortel, to Bell Telephone Laboratories, Inc. Gated accumulator. 3,018,048, 1–23–62, Cl. 235—176.

Backofen, Elmer R., to Clark Equipment Co. Regulator valve. 3,016,046, 1–9–62, Cl. 121—38.

Backofen, Walter A. : *See—*
Pels, Alan R., and Backofen. 3,022,525.

Backstein, Günter, and F. Berger, to Rheinmetall G.m.b.H., Firma. Electrical igniter for effecting the ignition of explosive charges. 3,070,013, 12–25–62, Cl. 102—28.

Backster, Grover C., Jr. Method and apparatus for measuring and recording group reactions. 3,034,500, 5–15–62, Cl. 128—2.1.

Backus, Alfred J. : *See—*
Dale, Robert F., Backus, and Kezeli. 3,020,208.
Pratt, Robert H., and Backus. 3,065,505.

Backus, Arthur E., to American Plasticraft Co. Traveler ring assemblies. 3,056,250, 10–2–62, Cl. 57—119.

Backus, Edward J. : *See—*
Shay, Anthony J., Lowery, Bohonos, and Backus. 3,057,779.

Backwinkel, Johannes, and A. Altmann, to Blaupunkt-Werke G.m.b.H. Automatic frequency control system. 3,049,587, 8–14–62, Cl. 178—5.8.

Bacon American Corp.: *See*—
Laycox, William J. 3,042,966.
Bacon, Arnold, A. L. Silverman, and J. N. Cote, to Amalgamated Plastic Corp. Shoe heel covering machine. 3,023,-435, 3–6–62, Cl. 12—49.1.
Bacon, Carl S. Vehicle door lock safety device. 3,054,282, 9–18–62, Cl. 70—264.
Bacon, Charles H., Inc.: *See*—
George, McCona. 3,068,814.
Bacon, Doris A., to Hallmark Cards, Inc. Puppet. 3,034,255, 5–15–62, Cl. 46—152.
Bacon Felt Co.: *See*—
Becker, William E. 3,038,279.
Bacon, Jabez R., to Hydraulic Specialties, Inc. Manufacture of laminated panels. 3,037,892, 6–5–62, Cl. 100—219.
Bacon, James F., H. Elmer, and H. P. Hood, to Corning Glass Works. Scintillator. 3,032,659, 5–1–62, Cl. 250—71.5.
Bacon, John P., to Curtiss-Wright Corp. Ultrasonic testing apparatus. 3,028,752, 4–10–62, Cl. 73—67.8.
Bacon, Stanley H., J. Efstathiou, and G. B. Greene, to Smith-Corona Marchant, Inc. Data processing system. 3,060,-272, 10–23–62, Cl. 197—19.
Bacot, Pierre C. A.: *See*—
Girinsky, Anatole, and Bacot. 3,051,786.
Badalamenti, Gaetano. Slide rule for ascertaining the divisibility of numbers and for the resolution into prime number factors of such numbers. 3,033,451, 5–8–62, Cl. 235—89.
Badalich, Frank C., to Bell & Howell Co. Projection of slides. 3,044,198, 7–17–62, Cl. 40—79.
Badders, William C., to United States of America, Navy. Rated variable area exit nozzle. 3,030,769, 4–24–62, Cl. 60—35.6.
Badeau, Everett E., Sr. Photo printer take-up control. 3,064,913, 11–20–62, Cl. 242—55.14.
Badenoch, Benjamin W., to Vickers Inc. Power transmission. 3,046,897, 7–31–62, Cl. 103—48.
Badenoch, Benjamin W., and R. M. Stewart, to Vickers Inc. Power transmission. 3,046,898, 7–31–62, Cl. 103—49.
Bader, Erich, to Deutsche Gold-und Silber-Scheideanstalt vormals Roessler. Method of lacquering metal surface employing a priming coating of a reaction lacques comprising an acrylic monomer, an unsaturated polyester. 3,061,459, 10–30–62, Cl. 117—75.
Bäder, Erich, O. Schweitzer, and L.-K. Schwörzer, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Process for the treatment of animal skins. 3,030,170, 4–17–62, Cl. 8—94.18.
Bader, Gilbert F. Electrically controlled steam spotting machine. 3,030,792, 4–24–62, Cl. 68—240.
Bader, John. Adjustable hydrofoil. 3,031,999, 5–1–62, Cl. 114—66.5.
Bader, Melvin R., to Super Mold Corp. of California. Tire tread builders. 3,047,049, 7–31–62, Cl. 156—411.
Bader, Morton E., and A. J. Budd, to Olin Mathieson Chemical Corp. Solvent system comprising dimethyl formamide-dimethyl sulfoxide for chlorinated insecticides and mercurial fungicides. 3,068,142, 12–11–62, Cl. 167—22.
Bader, William: *See*—
Beyer, Fred K. and Bader. 3,053,557.
Bader, William, and R. W. Berry, Jr., to Wesson Corp. Toolholder. 3,052,952, 9–11–62, Cl. 29—96.
Bader, William, and R. W. Berry, Jr., to Wesson Corp. Tool holder. 3,059,316, 10–23–62, Cl. 29—96.
Badger, Alfred E., G. J. Lehr, and W. R. Kowalka, to Libbey-Owens-Ford Glass Co. Sealing access openings in glazing units. 3,027,607, 4–3–62, Cl. 20—56.5.
Badger, Everett H., Jr.: *See*—
Davies, Robert H., and Badger. Re. 25,236.
Badger Meter Mfg. Co.: *See*—
Dunn, Michael J. 3,035,442.
Kullmann, Donald J. 3,020,774.
Badger Northland, Inc.: *See*—
Bruecker, Gerald J. 3,068,839.
Badger, Percy A. Aerators. 3,036,510, 5–29–62, Cl. 98—54.
Badger, Robert E. Battery powered timing light. 3,042,835, 7–3–62, Cl. 315—171.
Badger, William H., to Dow Corning Corp. Silicone lubricating compositions. 3,061,545, 10–30–62, Cl. 252—49.6.
Badgett, Lloyd F.: *See*—
Hacke, William R., McBurnett, and Badgett. 3,015,624.
Badische Anilin- & Soda-Fabrik Aktiengesellschaft: *See*—
Baron, Hubertus, and Friederich. 3,023,230.
Bartholomé, Ernst, Gruendler, and Teltschik. 3,031,286.
Baumann, Hans, Leuchs, and Krallmann. 3,070,592.
Baumann, Heinrich, Graf, and Poschmann. 3,037,903.
Baumeister, Wilhelm, Gaeth, Haarer, and Schwarz. 3,044,970.
Becke, Friedrich, and Wick. 3,041,294.
Becke, Friedrich, and Wick. 3,060,135.
Becke, Friedrich, and Wick. 3,065,189.
Cordes, Hans. 3,060,214.
Debnert, Johannes, and Gehm. 3,045,003.
Deuschel, Werner. 3,045,040.
Distler, Harry, and Kuespert. 3,048,625.
Fikentscher, Hans, and Herrle. 3,027,347.
Gehm, Robert, Schmidt, and Mertens. 3,051,704.
Gerlich, Hans, Knobloch, and Meyer. 3,041,315.
Graser, Fritz. 3,051,711.
Hamprecht, Guenther, Bellmuth, and Lorenz. 3,018,930.
Hamprecht, Guenther, and Schwarzmann. 3,060,216.
Hanusch, Fritz, and Rettig. 3,047,907.
Badische Anilin- & Soda-Fabrik Aktiengesellschaft: *See*—Continued
Hensel, Hans R., and Baumann. 3,045,014
Hieber, Walter. 3,031,462.
Hohenschutz, Heinz. 3,060,233.
Honsberg, Werner. 3,065,163.
Huenig, Siegfried. 3,043,828.
Jockers, Kurt, and Meier. 3,060,133.
Jung, Johann, von Blumencron, Pfaff, and Scheuermann. 3,054,669.
Kastning, Ernst-Guenther, and Bronstert. 3,070,574.
Keller, Rudolf, Schneiders, and Wenner. 3,060,222.
Knobloch, Erich, Adam, and Linnartz. 3,043,499.
Koenig, Rudolf, and Aurnhammer. 3,041,384.
Konrad, Otto. 3,048,116.
Kroeper, Hugo, Weitz, and Platz. 3,019,215.
Leber, Adolf, and Hansen. 3,048,470.
Maisack, Herbert, Peukert, and Schoenleben. 3,037,977.
Merkel, Karl, and Palm. 3,051,708.
Meyer, Ferdinand, and Demmler. 3,023,224.
Michelitsch, Walter. 3,027,250.
Minsinger, Manfred, and Friedrich. 3,060,220.
Nottes, Guenther, and Cordes. 3,053,756.
Pasedach, Heinrich, and Seefelder. 3,023,246.
Poehler, Guenter, and Wegerich. 3,027,410.
Pohlemann, Heinz, Schroeder, Stummeyer, and Adolphi. 3,031,488.
Reicheneder, Franz, and Dury. 3,054,739
Reicheneder, Franz, Dury, Suter, and Willersinn. 3,027,401.
Reppe, Walter, and Stadler. 3,023,237.
Schienk, Wilhelm. 3,044,949.
Scholz, Heinrich, and Guenthert. 3,067,255.
Seefelder, Matthias, and Maisack. 3,023,219.
Stadler, Robert, and Becke. 3,048,621.
Stadler, Robert, and Lautenschlager. 3,060,227.
Steinhofer, Adolf, Bartholome, Frey, and Nonnemacher. 3,011,839.
Steinhofer, Adolf, Buschmann, and Unterstenhoefer. 3,054,839.
Steinhofer, Adolf, Frey, and Nonnenmacher. 3,027,415.
Tartter, Arnold. 3,023,218.
Toepel, Tim. 3,054,823.
Vollmert, Bruno. 3,055,859.
Von Schickh, Otto, Gehm, and Paul. 3,027,356.
Von Schickh, Otto, and Metzger. 3,060,173.
Weidinger, Hans, and Kranz. 3,065,238.
Wygasch, Ewald, and Luehdemann. 3,019,082.
Badoux, William. Combination lock for luggage. 3,053,-071, 9–11–62, Cl. 70—74.
Baechle, Hans J.: *See*—
Brainard, Wallace E., Hansen, Sedgwick, Sipek, and Baechle. 3,052,011.
Baechli, George, to Joy Mfg. Co. Rotary supporting device. 3,017,228, 1–16–62, Cl. 308—20.
Baechli, George, to Joy Mfg. Co. Conveyor apparatus. 3,059,-757, 10–23–62, Cl. 198—192.
Baechtel, Clarence R., to Westinghouse Air Brake Co. Foundation brake apparatus. 3,017,959, 1–23–62, Cl. 188—52.
Baeder, Donald L.: *See*—
Kant, Fred H., Baeder, Hinlicky, and Read. 3,043,770.
Baehr, Carl G., to Mite Corp. Blind stitch hemmer. 3,030,-899, 4–24–62, Cl. 112—160.
Baehr, Edward F. Method of making a regeneratively cooled combustion chamber. 3,035,333, 5–22–62, Cl. 29—157.3.
Baer, Byron N., J. D. Brandner, and J. W. Le Maistre, to Atlas Chemical Industries, Inc. Spinning of viscose. 3,031,320, 4–24–62, Cl. 106—165.
Baer, Charles A.: *See*—
Allen, Lloyd R., Baer, and Clough. 3,049,421.
Baer, Charles A., P. J. Clough, and R. W. Steeves, to National Research Corp. Coating. 3,016,873, 1–16–62, Cl. 118—49.1.
Baer, Charles A., P. J. Clough, and R. W. Steeves, to National Steel Corp. Process of treating a boron nitride crucible with molten aluminum. 3,063,865, 11–13–62, Cl. 117—66.
Baer, Clay H. Vibratory massage device. 3,057,348, 10–9–62, Cl. 128—32.
Baer, Donald R., to E. I. du Pont de Nemours and Co. Triphenylmethane dyes. 3,021,344, 2–13–62, Cl. 260—393.
Baer, Herman W.: *See*—
Sloan, Kenneth R., and Baer. 3,025,944.
Baer, Massimo, to Monsanto Chemical Co. Blend of a styrene copolymer with a graft-copolymer of styrene upon an alkyl acrylate polymer. 3,041,306, 6–26–62, Cl. 260—45.5.
Baer, Massimo, to Monsanto Chemical Co. Blend of styrene copolymer with a graft-copolymer of styrene and a nitrile upon an alkyl acrylate polymer. 3,041,307, 6–26–62, Cl. 260—45.5.
Baer, Massimo, to Monsanto Chemical Co. Blend of styrene copolymer with a graft-copolymer of styrene and an alkyl methacrylate upon an alkyl acrylate polymer. 3,041,308, 6–26–62, Cl. 260—45.5.
Baer, Massimo, to Monsanto Chemical Co. Blend of styrene copolymer with a graft-copolymer of an alkyl methacrylate upon an alkyl acrylate polymer. 3,041,309, 6–26–62, Cl. 260—45.5.
Baer, Massimo, and M. J. Vignale, to Monsanto Chemical Co. Anionic initiators. 3,055,860, 9–25–62, Cl. 260—45.5.
Baer, Robert A., R. E. Slattery, and A. L. Tripp, to Chemetron Corp. Method and apparatus for forming a continuous rail. 3,030,494, 4–17–62, Cl. 219—101.

Baer, Russell F., to Monsanto Chemical Co. Automatic bobbin transfer device. 3,067,567, 12–11–62, Cl. 57—54.
Baer, Sheldon J.: *See*—
Bloom, Sol. 3,015,859.
Baermann, Max. Process for the manufacture of plastic bound permanent magnets. 3,024,392, 3–6–62, Cl. 317—201.
Baermann, Max. Material with permanent magnetic properties. 3,051,988, 9–4–62, Cl. 18—12.
Baermann, Max. Controllable flux permanent magnet systems, especially for eddy current brakes or couplings for power propelled vehicles. 3,064,149, 11–13–62, Cl. 310—93.
Baermann, Walter P., to Prestige Furniture Corp. Seating articles. 3,055,708, 9–25–62, Cl. 297—445.
Baeumert, Paul A. F. Process of producing fluorine compounds from fluorine-containing minerals and the like. 3,065,050, 11–20–62, Cl. 23—88.
Baevsky, Melvin M., to E. I. du Pont de Nemours and Co. Textile bleaching composition. 3,061,550, 10–30–62, Cl. 252—99.
Baez, Guillermo F. Rotary pumps and the like. Re. 25,116, 1–16–62, Cl. 103—94.
Bafford, Richard A.: *See*—
Laudnet, Bernard, Bafford, and Prapas. 3,058,982.
Bafford, Richard A., and R. S. Gregorian, to W. R. Grace & Co. Crosslinking process. 3,017,376, 1–16–62, Cl. 260—23.
Bagby, John P., and S. R. Freeland, to Bell & Howell Co. Camera diaphragm and blade therefor. 3,053,159, 9–11–62, Cl. 95—64.
Bagby, Leland W.: *See*—
Vogel, Alvin R., Ruch, and Bagby. 3,015,702.
Bagby, Marvin O.: *See*—
Smith, Cecil R., Jr., Bagby, and Wolff. 3,057,893.
Bagby, Richard S.: *See*—
Lorz, Emil, and Bagby. 3,056,787.
Bagcraft Corp. of America: *See*—
Meister, Albert A. 3,024,962.
Meister, Albert A. 3,035,754.
Bagdon, Richard J., to Federal-Mogul-Bower Bearings, Inc. Method for making fluid sealing elements. 3,017,759, 1–23–62, Cl. 69—21.
Bagdon, Stanley W., and D. J. Critchell, to Eastman Kodak Co. Work hanger. 3,029,952, 4–17–62, Cl. 211—117.
Bagdonas, Anthony J. Fishing tackle container. 3,039,226, 6–19–62, Cl. 43—57.5.
Bageman, Fred J., and C. Francis; said Francis assor. to said Bageman. Pivot mounting for static wheel balancer. 3,055,221, 9–25–62, Cl. 73—484.
Baggott, Charles E., Sr. Pocket-size container for small articles. 3,057,464, 10–9–62, Cl. 206—37.
Baggs, Burton D., Jr.: *See*—
Becke, Friedrich, and Wick. 3,037,001.
Eisele, Julius, Federkiel, Schuster, Gehm, Tartter, Graser, Rohland, and Stoeckl. 3,037,030.
Kunzer, Werner, and Leutert. 3,036,418.
Lehnerer, Wolfgang, and Friederich. 3,037,012.
Meyer, Ferdinand, and Knobloch. 3,036,993.
Meyer, Ferdinand, and Knobloch. 3,036,994.
Schoellig, Alfred, Roessler, and Krallmann. 3,036,876.
Scholz, Hellmut, and Kieferle. 3,037,007.
Smith, Alexander, and Baggs. 3,028,919.
Smith, Alexander, and Baggs. 3,031,830.
Smith, Alexander, and Baggs. 3,040,502.
Smith, Alexander, and Baggs. 3,066,745.
Trieschmann, Hans G., Reuter, and Arend. 3,036,974.
Bagley, Alan S.: *See*—
Cutler, Leonard S., Bagley, and Bodily. 3,040,158.
Bagley, Alan S., and R. E. Rawlins, to Hewlett-Packard Co. Electronic counter. 3,039,685, 6–19–62, Cl. 235—132.
Bagley, Louis N.: *See*—
Thompson, Elbert O., and Bagley. 3,067,864.
Bagnagatti, Virginio. Disconnecting switch. 3,036,168, 5–22–62, Cl. 200—48.
Bagnall, Kenneth W., and D. S. Robertson, to United Kingdom Atomic Energy Authority. Equipment for handling dangerous substances. 3,038,787, 6–12–62, Cl. 23—259.
Bagnasco, Dante V. Safety pin. 3,018,533, 1–30–62, Cl. 24—161.
Bagno, Samuel M., to Walter Kidde & Co., Inc. Testing of apparatus for detecting disturbances in an enclosure. 3,022,496, 2–20–62, Cl. 340—214.
Bagno, Samuel M., and J. H. Fasal, to Walter Kidde & Co., Inc. Thermopile. 3,018,311, 1–23–62, Cl. 136—4.
Bagno, Samuel M., and E. Levy, to Walter Kidde & Co., Inc. Network for monitoring alarm systems. 3,029,420, 4–10–62, Cl. 340—213.
Bagnuk, William W., and D. L. Sweet, to The General Tire & Rubber Co. Pneumatic tires. 3,043,357, 7–10–62, Cl. 152—361.
Bagshaw, Robert B., to Wald Industries, Inc. Skip-line attachment with cycle adjuster. 3,040,594, 6–26–62, Cl. 74—230.17.
Bagshaw, Robert B., to Wald Industries, Inc. Coating apparatus having spray path adjusting mechanism. 3,041,-999, 7–3–62, Cl. 118—323.
Bagwell, Charles E.: *See*—
Harper, Willard J., Bagwell, and Hauck. 3,058,604.
Bagwell, Marshall U., to The Texas Pipe Line Co. Valve having vented housing. 3,060,964, 10–30–62, Cl. 137—599.
Bagwell, Marshall U., and D. H. Bond, to The Texas Pipe Line Co. Process and apparatus for calibrating a large capacity fluid flow meter. 3,028,744, 4–10–62, Cl. 73—3.
Bahco, Aktiebolaget: *See*—
Alping, Gustav H. 3,057,163.
Gustavsson, Karl A. G. 3,061,993.
Bahlsen, Werner: *See*—
Thiele, Friedrich. 3,064,590.
Bahniuk, Eugene, to Borg-Warner Corp. Control valves. 3,033,232, 5–8–62, Cl. 137—622.
Bahnson, Agnew H., Jr. Doffing and donning mechanism for spinning frames. 3,054,249, 9–18–62, Cl. 57—52.
Bahnson, Agnew H., Jr., and J. F. King, Jr. Traveling suction type floor cleaner. 3,064,299, 11–20–62, Cl. 15—312.
Bahr, George K., and E. Rose, to Peters Machinery Co. Forming and gluing machine. 3,056,337, 10–2–62, Cl. 93—51.
Bahr, Heinz-Joachim: *See*—
Grundmann, Werner, Bestian, Bahr, and Sommer. 3,066,-130.
Bahr, Ulrich, K.-H. Andres, and G. Braun, to Farbenfabriken Bayer Aktiengesellschaft. Proofing plastics with phosphorous compounds. 3,027,349, 3–27–62, Cl. 260—45.7.
Bahra, Nassoun Hajj, to General Electric Co. Control circuits for home appliances or the like. 3,044,000, 7–10–62, Cl. 318—203.
Bahrani, Aboul S., to American Radiator & Standard Sanitary Corp. Rotary mixing valve. 3,053,277, 9–11–62, Cl. 137—597.
Bahre Metallwerk Kommanditgesellschaft: *See*—
Greten, Ernst. 3,028,287.
Greten, Ernst. 3,038,527.
Bähring, Herbert, and F. Bender, to Fernseh G.m.b.H. Focusing system for storage tubes with image section. 3,052,809, 9–4–62, Cl. 313—84.
Bahrs, George S., M. M. McWhorter, and D. W. Martin. Voltage to frequency converter. 3,022,469, 2–20–62, Cl. 332—14.
Baia, Philip. Splice tapes. 3,043,188, 7–10–62, Cl. 88—19.5.
Baier, Richard, to American Smelting and Refining Co. Pouring nozzle for continuous casting. 3,066,364, 12–4–62, Cl. 22—57.2.
Baier, Wilhelm, K.G.: *See*—
Huber, Georg. 3,027,932.
Larché, Kürt. 3,066,975.
Rehmann, Heinrich. 3,016,263.
Rehmann, Heinrich. 3,066,976.
Baier, Wilhelm, K.G., Firma: *See*—
Larche, Kurt. 3,031,226.
Baijle, Gerhard G.: *See*—
Alders, Lucas, and Baijle. 3,041,373.
Baile, Roland P. Process of canning dried soybeans and the resulting product. 3,052,556, 9–4–62, Cl. 99—186.
Bailey, Albert D., to the United States of America, Navy. Radio direction finding system. 3,028,600, 4–3–62, Cl. 343—113.
Bailey, Bruce S.: *See*—
Nelson, Stanley R., Vermillion, Bailey, and Alpert. 3,031,279.
Bailey, Charles E.: *See*—
Scott, John H., and Bailey. 3,044,099.
Bailey, Christopher E. G., to The Solartron Electronic Group Ltd. Servo systems. 3,021,071, 2–13–62, Cl. 235—180.
Bailey, Christopher E. G., to The Solartron Electronic Group Ltd. Electromechanical systems. 3,041,516, 6–26–62, Cl. 318—443.
Bailey, Christopher E. G., and G. O. Norrie, to The Solartron Electronics Group Ltd. Electronic apparatus for reading symbols. 3,065,457, 11–20–62, Cl. 340—149.1.
Bailey, David C. R., Sr. Trailer connector and brake actuating mechanism. 3,062,332, 11–6–62, Cl. 188—112.
Bailey, David L., to United States of America, Air Force. Broad-band discriminator system. 3,041,542, 6–26–62, Cl. 329—116.
Bailey, Donald L.: *See*—
Jex, Victor B., and Bailey. 3,044,982.
Jex, Victor B., and Bailey. 3,045,036.
Bailey, Donald L., and R. M. Pike, to Union Carbide Corp. Nitroarylfluorosilanes and process for their production. 3,020,302, 2–6–62, Cl. 260—448.2.
Bailey, Douglas G., to General Electric Co. Washing machine having combination shelf and access arrangement. 3,031,-871, 5–1–62, Cl. 68—13.
Bailey, Edwin M., to Daystrom Inc. Apparatus for determining the location and thickness of a reflecting object. 3,016,464, 1–9–62, Cl. 250—219.
Bailey, Ervin G., to Bailey Inventions, Inc. Processing of solid fuel for gas production. 3,062,632, 11–6–62, Cl. 48—206.
Bailey, Esme J.: *See*—
Barton, Derek H. R., Elks, and Bailey. 3,056,809.
Bailey, Florence N.: *See*—
Brown, James E. 3,015,166.
Brown, James E. 3,015,353.
Bailey, Francis M., and E. B. Canfield, to General Electric Co. Control systems for positioning objects having high inertia. 3,019,711, 2–6–62, Cl. 89—41.
Bailey, Francis T., and Fletcher E. McLane, to Westinghouse Electric Corp. Magnetic amplifier acceleration-deceleration circuit for motor control. 3,059,161, 10–16–62, Cl. 318—141.

Bailey, Frank W., 50% to J. J. McGlew. One-hand operated slide rules. 3,023,955, 3–6–62, Cl. 235—84.

Bailey, Frazer A., deceased, Wells Fargo Bank American Trust Co. and H. Phleger, executors. Vertically adjustable ship decks. 3,019,757, 2–6–62, Cl. 114—72.

Bailey, Fred L., J. P. Jenkins, and V. A. Nolte, to Automatic Tape Control, Inc. Recording and reproducing apparatus. 3,059,063, 10–16–62 Cl. 179—100.2.

Bailey, Frederick E., Jr.: *See*—
France, Haywood G., and Bailey. 3,024,219.
Hill, Fred N., Bailey, and Fitzpatrick. 3,062,755.
Hill, Fred N., Fitzpatrick, and Bailey. 3,037,943.
Lundberg, Robert D., and Bailey. 3,035,036.

Bailey, Frederick E., Jr., to Union Carbide Corp. Polymerization of epoxides. 3,030,315, 4–17–62, Cl. 260—2.

Bailey, Frederick E., Jr., to Union Carbide Corp. Polymerization of epoxides. 3,030,316, 4–17–62, Cl. 260—2.

Bailey, Frederick E., Jr., to Union Carbide Corp. Co-polymerization of alkylene oxide and vinyl epoxy compounds. 3,031,439, 4–24–62, Cl. 260—88.3.

Bailey, Frederick E., Jr., and H. G. France, to Union Carbide Corp. Block copolymer of dissimilar 1,2-alkylene oxides, and process for preparing the same. 3,029,216, 4–10–62, Cl. 260—42.

Bailey, Frederick E., Jr., and F. N. Hill, to Union Carbide Corp. Polymerization of epoxides. 3,041,291, 6–26–62, Cl. 260—2.

Bailey, Frederick E., Jr., and W. J. Toussaint, to Union Carbide Corp. Acrylate ester-vinyl pyridine N-oxide dihydrate copolymers. 3,058,959, 10–16–62, Cl. 260—86.1.

Bailey, Frederick E., Jr., and H. G. France, to Union Carbide Corp. Copolymers of vicinal-epoxy hydrocarbons with N-2,3-epoxy carbazoles. 3,063,948, 11–13–62, Cl. 260—2.

Bailey, George B., to John B. Pierce Foundation. Heat exchange for structure with trough means. 3,018,639, 1–30–62, Cl. 62—285.

Bailey, George B., and G. M. Rapp, to John B. Pierce Foundation. Method and apparatus for heating organic liquids. 3,055,347, 9–25–62, Cl. 122—33.

Bailey, Grant C.: *See*—
Holm, Vernon C. F., and Bailey. 3,032,599.
Holm, Vernon C. F., Bailey, and Clark. 3,045,054.

Bailey, Harold G.: *See*—
Adams, Paul L., Zimmerman, and Bailey. 3,066,722.

Bailey, Harold H.: *See*—
Standing, Charles A., and Bailey. 3,044,795.

Bailey, Herman to W. R. Grace & Co. Textile processing apparatus. 3,046,771, 7–31–62, Cl. 68—5.

Bailey, Hubert C.: *See*—
Dobson, Kenneth R., and Bailey. 3,031,491.

Bailey, Hubert C., to The Distillers Co. Ltd. Alkoxy trinuclear phenols. 3,067,259, 12–4–62, Cl. 260—613.

Bailey Inventions, Inc.: *See*—
Bailey, Ervin G. 3,062,632.

Bailey, James R., to Switchcraft, Inc. Push buttons for switches. 3,047,700, 7–31–62, Cl. 200—172.

Bailey, John A.: *See*—
Bailey, Arthur L., Fuller, and Bailey. 3,031,173.

Bailey, John E.: *See*—
Smith, Graydon, and Bailey. 3,034,036.
Smith, Graydon, and Bailey. 3,070,742.

Bailey, John M., to Caterpillar Tractor Co. Piston head with fuel directing means. 3,057,334, 10–9–62, Cl. 123—32.

Bailey, John M., F. S. Engelking, J. L. Hopper, and J. P Jero, to Caterpillar Tractor Co. Method and apparatus for simultaneously plating and lapping. 3,022,232, 2–20–62, Cl. 204—36.

Bailey, John W.: *See*—
Terlecki, Renat, and Bailey. 3,040,129.

Bailey, Kenneth D.: *See*—
Arnold, George L., Bailey, Lindsay, and Smithson. 3,047,861.

Bailey Meter Co.: *See*—
Dickey, Paul S. 3,040,719.
Durham, Edwin, and Weaver. 3,028,844.
Gilbert, Lyman F. 3,043,525.
Gilbert, Lyman F. 3,064,475.
Hoffman, Howard T. 3,043,145.
Holloway, Joseph J. 3,057,191.
Hornfeck, Anthony J., and Koppel. 3,028,095.
Hornfeck, Anthony J., Koppel, and Louis. 3,015,768.
Koppel, Harold H. 3,068,887.
Lewis, Henry P., and Triolo. 3,049,300.
Stevens, Robert J. 3,061,806.
Werme, John V. 3,070,778.
Worswick, Bernard A. 3,068,694.

Bailey Meters & Controls Ltd.: *See*—
Worswick, Bernard A. 3,019,650.

Bailey, Milton. Water resistant welt shoe construction. 3,028,690, 4–10–62, Cl. 36—17.

Bailey, Milton, and L. S. Chupack. Leather grading devices. 3,067,609, 12–11–62, Cl. 73—100.

Bailey, Norman: *See*—
Payne, Ronald J. M., and Bailey. 3,039,868.

Bailey, Sidney, Jr., to Proctor & Schwartz, Inc. Method of heat setting, dyeing and optionally scouring boarded synthetic thermoplastic textiles with superatmospheric steam. 3,022,926, 2–27–62, Cl. 223—76.

Bailey, Theodore L., and H. Madnick, to United States of America, Army. Glove for protection against thermal radiation. 3,035,272, 5–22–62, Cl. 2—161.

Bailey, Tivis R. Boat radio speaker amplifier and protector. 3,065,817, 11–27–62, Cl. 181—31.

Bailey, Wilburn R., and R. G. Hoch, to Texas Instruments Inc. Position determining method and apparatus. 3,064,897, 11–20–62, Cl. 235—190.

Bailey, William A., to Himself and G. B. Sweet. Egg collecting system. 3,033,162, 5–8–62, Cl. 119—48.

Bailey, William A., to himself and G. B. Sweet, as tenants by the entirety. Ventilating poultry house. 3,048,094, 8–7–62, Cl. 98—33.

Bailey, William F., to Hazeltine Research, Inc. Signal-translating device. 3,015,763, 1–2–62, Cl. 317—235.

Bailey, William J., to J. & E. Hall, Ltd. Lift systems. 3,022,866, 2–27–62, Cl. 187—29.

Bailey, William M., Co.: *See*—
Bowland, Andrew. 3,033,551.
Kern, Walter P. 3,040,175.
Kopito, Louis. 3,031,928.
Neely, Eugene M. 3,070,152.

Bailey, Wray J.: *See*—
Ayers, Chesley, and Bailey. 3,017,164.

Baillie, Andrew J.: *See*—
Cunningham, Kenneth G., and Baillie. 3,057,742.

Baillif, Ernest A., and A. J. Koch, to Whirlpool Corp. Ice cube injectors. 3,022,645, 2–27–62, Cl. 62—344.

Bain Corp.: *See*—
Reid, John B., and Spence. 3,052,904.

Bain, Jay: *See*—
Reyner, Charles H. 3,021,650.
Reyner, Charles H. 3,030,830.

Bain, John W., and A. E. Sumsion, to United States Steel Corp. Method of controlling the operation of an open hearth furnace. 3,015,357, 1–2–62, Cl. 158—117.5.

Bain, Joseph P., to The Glidden Co. Solvolysis of myrcene dihydrochloride. 3,060,237, 10–23–62, Cl. 260—602.

Bain, Joseph P., to The Glidden Co. Displacement reactions of myrcene dihydrohalide. 3,062,875, 11–6–62, Cl. 260—489.

Bain, Joseph P., and A. H. Best, to The Glidden Co. Flaking of menthol. 3,023,253, 2–27–62, Cl. 260—631.

Bain, Joseph P., and A. H. Best, to The Glidden Co. Flaking of menthol. 3,064,311, 11–20–62, Cl. 18—47.5.

Bain, Robert H., 45.08% to R. Crandall, 23.46% to J. Errand, and 23.46% to R. V. Andersen. Drinking glass washers. 3,027,583, 4–3–62, Cl. 15—164.

Baines, Frederick, to The Plessey Co. Ltd. Compression baling devices. 3,015,262, 1–2–62, Cl. 100—43.

Baines, William D., to National Research Council. Stabilization of a flat band running over a cylindrical roller. 3,053,425, 9–11–62, Cl. 226—33.

Bains, Clarence M. Coin display. 3,064,805, 11–20–62, Cl. 206—83.

Bair, Milford M. Prosthesis for below-knee amputees. 3,030,634, 4–24–62, Cl. 3—22.

Bair, Milford M. Artificial ankle. 3,045,247, 7–24–62, Cl. 3—32.

Bair, Richard H., to L. W. Triest. Telephone attachment. 3,022,387, 2–20–62, Cl. 179—182.

Baird-Atomic, Inc.: *See*—
Foreman, William T., and Shaw. 3,015,253.
Saunderson, Jason L., and Altman. 3,056,330.
Saunderson, Jason L., and Du Bois. 3,064,520.

Baird, Bruce C., Sr., to Radio Corp. of America. Circuit for converting an analog quantity to a digital quantity. 3,056,049, 9–25–62, Cl. 307—88.5.

Baird, Donald H., J. J. Dymon, and S. Natansohn, to Sylvania Electric Products Inc. Ferrite material containing lithium and aluminum oxides. 3,030,307, 4–17–62, Cl. 252—62.5.

Baird, Donald H., and J. J. Dymon, to Sylvania Electric Products Inc. Ferrite materials. 3,034,986, 5–15–62, Cl. 252—62.5.

Baird, Douglas O., to General Electric Co. Timer systems for cooking apparatus, or the like. 3,028,472, 4–3–62, Cl. 219—20.

Baird, George A., and T. A. Dowds, to Burroughs Corp. Accounting machine with recording apparatus. 3,069,078, 12–18–62, Cl. 235—60.13.

Baird, James, Jr. Single line hoisting bucket. 3,036,393, 5–29–62, Cl. 37—184.

Baird Machine Co., The: *See*—
Clay, Murray G. 3,025,889.
Clay, Murray G. 3,025,890.
Clay, Murray G. 3,025,891.
Clay, Murray G. 3,038,505.

Baird, Norman F., to Westinghouse Electric Corp. Coated flashlamp and coating composition. 3,022,653, 2–27–62, Cl. 67—31.

Baird, Richard H., to Lockheed Aircraft Corp. Explosive disconnect, 3,059,207, 10–16–62, Cl. 339—45.

Baird, Robert G.: *See*—
Semple, James, and Baird. 3,070,651.

Baird and Tatlock (London) Ltd.: *See*—
Fox, Clifford E. 3,033,412.

Baird, William G., and W. Hrach, to H-B Mfg. Co. Striping device. 3,018,505, 1–30–62, Cl. 15—503.

Baird, William G., Jr., C. A. Lindstrom, Jr., A. L. Besse, Jr., and D. J. D'Entremont, to W. R. Grace & Co. Method of producing film having improved shrink energy. 3,022,543, 2–27–62, Cl. 18—57.

Baird, William G., Jr., and J. W. Harrison. Method for making multilayer sheets of plastic. 3,045,285, 7–24–62, Cl. 18—48.

Baisch, Earl R., to Ford Motor Co. Disc brake. 3,052,326, 9–4–62, Cl. 188—73.
Baisch, J. Carroll: *See*—
Fleming, Robert B. 3,037,279.
Baisley, Raymond J. *See*—
Keely, Clifford D., and Baisley. 3,045,402.
Keely, Clifford D., and Baisley. 3,052,072.
Baisse, Jacques: *See*—
Delalande, Michel, and Baisse. 3,030,355.
Baisse, Jacques J.: *See*—
Delalande, Michel, and Baisse. 3,043,829.
Baize, James E., and R. A. Noel. Internal combustion power means. 3,045,427, 7–24–62, Cl. 60—39.34.
Bajak, Leslie J.: *See*—
Moore, James J. 3,048,459.
Bajer, Jacques, and H. C. Cuskie, to Ford Motor Co. Isolating device for suspension system. 3,061,301, 10–30–62, Cl. 267—52.
Bajulaz, Roger. Submersible boat. 3,038,431, 6–12–62, Cl. 114—16.
Bajulaz, Roger. Submersible. 3,051,114, 8–28–62, Cl. 114—16.
Bak, Joseph, to Rolliform, Inc. T-form construction for acoustical ceilings. 3,023,561, 3–6–62, Cl. 189—36.
Bakan, Joseph A., D. J. Striley, and T. Maierson, to The National Cash Register Co. Pressure-sensitive record and transfer sheet material. 3,020,171, 2–6–62, Cl. 117—36.2.
Bakehouse, Glen D. Indicator guide for tractor drawn implements. 3,028,678, 4–10–62, Cl. 33—185.
Bakelar, John H., and V. L. Hudson, to International Business Machines Corp. Record feeding devices. 3,041,069, 6–26–62, Cl. 271—44.
Bakelite Ltd.: *See*—
Collinson, Roy G., and Jones. 3,035,032.
Baker, Aaron A.: *See*—
Baker, Reuben C. 3,054,450.
Baker, Adolph A., and W. E. Shaffer, to General Dynamics Corp. Relay lockout chain circuit. 3,066,245, 11–27–62, Cl. 317—136.
Baker, Alan G.: *See*—
Kanborian, Jacob S., Dyer, and Baker. 3,060,468.
Baker, Albert B.: *See*—
McIlhenny, William F., and Baker. 3,056,651.
Baker, Albert L., Jr. Radiator cap remover. 3,035,466, 5–22–62, Cl. 81—3.1.
Baker, Allister L., to Keuffel & Esser Co. Adjusting device. 3,023,503, 3–6–62, Cl. 33—46.
Baker, Alva: *See*—
Richards, William C., and Baker. 3,030,166.
Baker, Anthony: *See*—
Knecht, Forrest E., Schwartz, Nicholas, and Baker. 3,059,894.
Baker, Arthur H.: *See*—
Whitney, Geoffrey F. H., Baker, and Whitfield. 3,027,678.
Baker, Arthur R., to The American Hardware Corp. Lock mounting means. 3,026,704, 3–27–62, Cl. 70—451.
Baker, Arthur V., to Placerville Fruit Growers Association. Fruit handling device. 3,039,631, 6–19–62, Cl. 214—313.
Baker, Arthur W., to American Cyanamid Co. Hydrogen peroxide explosives. 3,047,441, 7–31–62, Cl. 52—1.
Baker, Benjamin P.: *See*—
Yeckley, Russell N., Sucha, Baker, and Mellon National Bank and Trust Co. 3,057,983.
Baker, Benjamin P., deceased, by Mellon National Bank and Trust Co., executor, to Westinghouse Electric Corp. Sealing constructions. Sealing constructions. 3,066,823, 12–4–62, Cl. 220—46.
Baker, Benjamin P., to Westinghouse Electric Corp. Cooling means for conducting parts. 3,067,279, 12–4–62, Cl. 174—18.
Baker, Benjamin P., and R. F. Karlicek, to Westinghouse Electric Corp. Circuit interrupter assembly. 3,032,689, 5–1–62, Cl. 317—15.
Baker, Buford M., to Texas Instruments Inc. Apparatus for combined fluid and electromagnetic damping of seismometer units. 3,059,218, 10–16–62, Cl. 340—17.
Baker-Cammack Hosiery Mills, Inc.: *See*—
Kimrey, James A. C., and Hinkle. 3,016,725.
Baker, Carolyn F. M. Circular bed pan. 3,025,531, 3–20–62, Cl. 4—112.
Baker Castor Oil Co., The: *See*—
Garai, Frank. 3,019,161.
Baker, Charles H., to S & C Electric Co. Circuit interrupter. 3,041,426, 6–26–62, Cl. 200—114.
Baker, Charles R.: *See*—
Kasbohm, Martin L., Baker, and Houston. 3,023,836.
Baker, Charles R., and R. S. Paul, to Union Carbide Corp. Process and apparatus for purifying low boiling gases. 3,021,682, 2–20–62, Cl. 62—17.
Baker, Claude B., to Illinois Central Railroad Co. System for securing a freight vehicle to a transporting vehicle. 3,054,363, 9–18–62, Cl. 105—368.
Baker, Corwin W., P. A. Brumby, A. P. Christensen, and F. S. Sillars, to Burroughs Corp. Toroidal coil winding machines. 3,030,038, 4–17–62, Cl. 242—4.
Baker, David B. Article bagging machine. 3,057,382, 10–9–62, Cl. 141—83.
Baker, David C., to The Bendix Corp. Engine preheater. 3,024,777, 3–13–62, Cl. 123—122.
Baker, David K., to Baker Perkins Inc. Swing tray conveyors for bakery plant. 3,054,498, 9–18–62, Cl. 198—155.
Baker, Don H., Jr., and V. E. Homme, to United States of America, Interior. Production of high purity titanium by metallic sodium reduction of titanic halide. 3,069,255, 12–18–62, Cl. 75—84.5.
Baker, Don R.: *See*—
Fischer, Llewellyn W., and Baker. 3,039,863.
Baker, Donald E., to E. T. Oakes Corp. Farinaceous products. 3,041,176, 6–26–62, Cl. 99—90.
Baker, Donald G. Corn picking machine. 3,069,832, 12–25–62, Cl. 56—104.
Baker, Donald H., and D. J. Kesselring, to Sperry Rand Corp. Mechanical damping apparatus for a pendent member. 3,020,980, 2–13–62, Cl. 188—1.
Baker, Donald L., to Toledo Scale Corp. Elevator door lock. 3,029,900, 4–17–62, Cl. 187—61.
Baker, Donald R.: *See*—
Fordyce, Homer E., and Baker. 3,603,688.
Baker, Dwight L., and H. Stollberg, to Union Carbide Corp. Process for the manufacture of malt beverages. 3,039,876, 6–19–62, Cl. 99—52.
Baker, Edgar G., to Gentex Corp. Swimming aid. 3,049,735, 8–21–62, Cl. 9—337.
Baker, Edgar G. Floatation vest. 3,050,753, 8–28–62, Cl. 9—337.
Baker, Edward A., Jr., to Palmer-Shile Co. Adjustable storage rack. 3,044,633, 7–17–62, Cl. 211—147.
Baker, Edward W.: *See*—
Forestad, Jack B., Skeen, and Baker. 3,036,538.
Baker Engineering Corp.: *See*—
Dotzenroth, Paul N. 3,015,921.
Dotzenroth, Paul N. 3,026,238.
Baker, Floyd A., to Westinghouse Electric Corp. Sub-harmonic signal generator employing a magnetic amplifier. 3,050,173, 8–21–62, Cl. 323—89.
Baker, Francis E., to Union Carbide Corp. Multiwall bag. 3,061,170, 10–30–62, Cl. 229—55.
Baker, Francis E., and W. Gasser, to Union Carbide Corp. Plastic barber's cloth. 3,067,428, 12–11–62, Cl. 2—52.
Baker, George T., deceased, by Midland Bank Executor and Trustee Co. Ltd., administrator, to British Telecommunications Research Ltd. Telephone or like systems. 3,055,983, 9–25–62, Cl. 179—18.
Baker, Geraldine W.: *See*—
Waltman, Delbert. 3,064,615.
Baker, Glenn W.: *See*—
Stone, Kyle D., and Baker. 3,039,467.
Baker, Glennie G. Vaginal sanitation apparatus. 3,054,403, 9–18–62, Cl. 128—232.
Baker, Harold J. Swimming pool. 3,024,470, 3–13–62, Cl. 4—172.
Baker, Ivan W.: *See*—
Roach, Erskine E., and Baker. 3,020,852.
Baker, J. T,. Chemical Co.: *See*—
Schramm, Charles H., and Miller. 3,062,790.
Shoemaker, Carlyle E. 3,031,268.
Shoemaker, Carlyle E., and Sumrell. 3,041,141.
Zief, Morris, and Schramm. 3,041,353.
Baker, Jacob G. Multiple display illumination device. 3,026,512, 3–20–62, Cl. 340—373.
Baker, James G. Correcting optical system. 3,022,708, 2–27–62, Cl. 88—57.
Baker, James G. Lens systems having wide angle objectives. 3,039,361, 6–19–62, Cl. 88—57.
Baker, James G., to United States of America, Air Force. Telephoto optical design. 3,045,548, 7–24–62, Cl. 88—57.
Baker, James G., to United States of America, Air Force. Telephoto optical design. 3,045,549, 7–24–62, Cl. 88—57.
Baker, James L.: *See*—
Outterson, Charles R., Baker, and Halsey. 3,017,295.
Baker, James M., to Union Carbide Corp. Roll film dispenser carton. 3,025,956, 3–20–62, Cl. 206—58.
Baker, James V. Pedal operated paddle system for boats. 3,039,122, 6–19–62, Cl. 115—25.
Baker, Jess F. Method and apparatus for defrosting ice cubing machines. 3,062,018, 11–6–62, Cl. 62—81.
Baker, Joe W.: *See*—
Horne, John C., Davis, and Baker. 3,031,214.
Baker, John E., to Socony Mobil Oil Co., Inc. Method of putting reformer on-stream with reduced hydrogen loss. 3,030,298, 4–17–62, Cl. 208—65.
Baker, John F., D. S. Gelletich, and W. J. Wasylenko, to Burroughs Corp. Magnetic head suspension. 3,060,277, 10–23–62, Cl. 179—100.2.
Baker, John G., to Baker Mfg. Co. Casing caps. 3,035,732, 5–22–62, Cl. 220—3.8.
Baker, John G., to Baker Mfg. Co. Pitless pump construction. 3,051,088, 8–28–62, Cl. 103—87.
Baker, John G., to Baker Mfg. Co. Motor controls for well pumps. 3,054,022, 9–11–62, Cl. 317—99.
Baker, John R., to Baker Oil Tools, Inc. Expandible packing apparatus. 3,036,639, 5–29–62, Cl. 166—201.
Baker, John R., and J. D. Keithahn, to Baker Oil Tools, Inc. Sleeve valve apparatus. 3,054,415, 9–18–62, Cl. 137—68.
Baker, Joseph C., and C. S. Jackowski, to International Business Machines Corp. Single cam punch. 3,024,972, 3–13–62, Cl. 234—114.
Baker, Joseph W.: *See*—
Newallis, Peter E., Baker, and Chupp. 3,061,613.
Newallis, Peter E., Baker, and Chupp. 3,065,125.
Newallis, Peter E., Baker, and Chupp. 3,065,126.
Newallis, Peter E., Baker, and Chupp. 3,070,488.
Newallis, Peter E., Baker, and Chupp. 3,070,489.
Saul, George A., and Baker. 3,070,490.

Baker, Joseph W., to Monsanto Chemical Co. S-vinyl phosphorothioates. 3,067,232, 12–4–62, Cl. 260—461.
Baker, Joseph W., J. P. Chupp, and P. E. Newallis, to Monsanto Chemical Co. 1,2-bis(oxycarbonyl)ethyl phosphinothioates. 3,030,264, 4–17–62, Cl. 167—22.
Baker, Joseph W., and J. P. Chupp, to Monsanto Chemical Co. Butynyl phosphates. 3,030,265, 4–17–62, Cl. 167—22.
Baker, Joseph W., J. P. Chupp, and P. E. Newallis, to Monsanto Chemical Co. Phosphino compounds, compositions and methods of destroying arachnids. 3,052,596, 9–4–62, Cl. 167—22.
Baker, Joseph W., J. P. Chupp, and P. E. Newallis, to Monsanto Chemical Co. Carbamoylalkyl phosphonothioates. 3,057,774, 10–9–62, Cl. 167—22.
Baker, Judd O., and N. N. Estes. Method and apparatus for torpedo direction locating. 3,050,707, 8–21–62, Cl. 340—6.
Baker, Kenneth L., T. C. Smith, and L. A. Pechmann, to United States of America, Navy. Submarine signal fuze. 3,048,111, 8–7–62, Cl. 102—70.
Baker, Kenneth R., and E. J. Ranaim. Folding lounge seat. 3,018,132, 1–23–62, Cl. 297—377.
Baker, Lee H. D., and L. G. Beckett, to Whirlpool Corp. Air circulation system and structure. 3,025,683, 3–20–62, Cl. 62—419.
Baker, Malvern S., to J. I. Case Co. Vehicle drive means. 3,017,941, 1–23–62, Cl. 180—6.2.
Baker Mfg. Co.: *See*—
Baker, John G. 3,035,732.
Baker, John G. 3,051,088.
Baker, John G. 3,054,022.
Conrad, Martin B. 3,045,757.
Keithahn, Julian D. 3,045,752.
Muse, John F. 3,045,758.
Myers, William D. 3,045,754.
Baker, Marion A., to Shell Oil Co. Slimicides. 3,052,594, 9–4–62, Cl. 162—161.
Baker, Marvin T., and R. R. Giler, to Sunbeam Equipment Corp. Vacuum furnace. 3,033,547, 5–8–62, Cl. 263—40.
Baker, Max E. Card-aligning machine. 3,055,415, 9–25–62, Cl. 156—552.
Baker, Mitchell, to Xerox Corp. Method of making printed circuits. 3,061,911, 11–6–62, Cl. 29—155.5.
Baker Oil Tools, Inc.: *See*—
Baker, John R. 3,036,639.
Baker, John R., and Keithahn. 3,054,415.
Baker, Reuben C. 3,054,450.
Campbell, Don G. 3,055,430.
Clark, Earnest H., Jr. 3,032,050.
Clark, Earnest H., Jr. 3,036,656.
Clark, Earnest H., Jr. 3,036,640.
Clark, Earnest H., Jr., and Campbell. 3,054,452.
Clark, Ernest H., Jr., and Keithahn. 3,051,246.
Clark, Earnest H., Jr., and Keithahn. 3,064,738.
Clark, Earnest H., Jr., and Myers. 3,055,431.
Conrad, Martin B. 3,054,845.
Conrad, Martin B., and Fisher. 3,036,810.
Fisher, Hiram H., Jr. 3,051,240.
Keithahn, Julian D. 3,016,914.
Keithahn, Julian D. 3,021,902.
Keithann, Julian D. 3,058,534.
Litchfield, Mass. R. 3,051,244.
Myers, William D. 3,066,738.
Muse, John F. 3,026,941.
Park, Robert O. Re. 25,219.
Park, Robert O. 3,055,432.
Schorr, Theodore H. 3,051,247.
Baker, Paul E.: *See*—
Jones, Stanley B., Mueller, and Baker. 3,041,454.
Baker, Paula: *See*—
Baker, William E. 3,057,113.
Baker Perkins Inc.: *See*—
Baker, David K. 3,054,498.
Gatz, William J. 3,054,495.
Horsford, Eric J. 3,051,289.
Johnston, Peter W. G., and Hewitt. 3,063,391.
Kirchhofer, Joseph D. 3,036,690.
Krenke, Norman O., and Swenson. 3,030,153.
Packman, Percival J., and Morton. 3,068,989.
Savell, Jacob F. 3,064,162.
Temple, Hiram E. 3,053,375.
Baker Perkins Ltd.: *See*—
Johnston, Peter W. G., and Hudson. 3,039,404.
Tunley, Allan A. 3,024,744.
Baker, Reuben C., deceased, by R. C. Baker, Jr., T. B. Anderson, A. A. Baker, D. K. Anderson, and Security-First National Bank of Los Angeles, to Baker Oil Tools, Inc. Retrievable packer apparatus. 3,054,450, 9–18–62, Cl. 166—120.
Baker, Reuben C., Jr.: *See*—
Baker, Reuben C. 3,054,450.
Baker, Richard F.: *See*—
Maher, Joseph L., and Baker. 3,045,899.
Baker, Ridgway, to Minneapolis-Honeywell Regulator Co. Flashlights. 3,057,992, 10–9–62, Cl. 240—10.65.
Baker, Robert F., to Westinghouse Electric Corp. Segmented ring-type refractory metal liners for guns. 3,025,765, 3–20–62, Cl. 89—16.
Baker, Robert G., to The Dow Chemical Co. α,α,α-trifluoro-4-nitro-metacresol seed protectants. 3,034,956, 5–15–62, Cl. 167—38.
Baker, Robert M., and N. K. Morey. Log debarking machines. 3,016,074, 1–9–62, Cl. 144—208.
Baker, Robert S., to Anaconda American Brass Co. Manufacture of copper strip. 3,069,260, 12–18–62, Cl. 75—211.
Baker, Ronald D.: *See*—
Rose, Donald. 3,028,963.
Rose, Donald. 3,044,626.
Baker, Roy E., Jr. Bowling pinsetter curtain bracket. 3,019,021, 1–30–62, Cl. 273—53.
Baker, Scott F. Golf ball retriever attachment and combination thereof with a golf club. 3,058,767, 10–16–62, Cl. 294—19.
Baker, Stephen C. Hydraulic flow control valve. 3,064,676, 11–20–62, Cl. 137—501.
Baker, Theodore C., to Owens-Illinois Glass Co. Volumetric measurement. 3,060,735, 10–30–62, Cl. 73—149.
Baker, Thomas E. Automobile rear axle puller. 3,037,270, 6–5–62, Cl. 29—262.
Baker, Thomas R., and D. P. Nemoede, to Kliklok Corp. Closure construction of folding boxes. 3,067,924, 12–11–62, Cl. 229—35.
Baker, Virgil H., to Carrier Corp. Tube expander. 3,047,045, 7–31–62, Cl. 153—82.
Baker, Willard L., and T. W. Snow, to United Shoe Machinery Co. Last carriers. 3,024,479, 3–13–62, Cl. 12—1.
Baker, Willard L., A. S. Dorosz, and J. R. Stewart, to United Shoe Machinery Corp. Shoe handling devices. 3,024,480, 3–13–62, Cl. 12—1.
Baker, William A., and D. A. Shoemack, to Bristol Aircraft Ltd. Manufacture of hollow articles from thread. 3,032,461, 5–1–62, Cl. 156—175.
Baker, William E., to Standard-Thomson Corp. Electric heater. 3,041,567, 6–26–62, Cl. 338—63.
Baker, William E. Fishing rod attachment with mechanical finger. 3,053,004, 9–11–62, Cl. 43—25.
Baker, William E., 50% to W. E. and P. Baker, as joint tenants, and 50% to C. W. Brown, Jr., and O. H. Brown, as joint tenants. Model aircraft article launcher. 3,057,113, 10–9–62, Cl. 46—78.
Baker, William J., to Union Oil Co. of California. Shaft seal. 3,048,412, 8–7–62, Cl. 277—75.
Baker, William O., to Swimquip, Inc. Diving board structure. 3,030,108, 4–17–62, Cl. 272—66.
Baker, William O., to Swimquip, Inc. Skim tank. 3,067,879, 12–11–62, Cl. 210—129.
Baker, William O., and P. D. Prizler, to Swimquip, Inc. Filter element and assembly. 3,019,905, 2–6–62, Cl. 210—486.
Baker, William R., A. Bratenahl, and W. B. Kunkel, to United States of America, Atomic Energy Commission. Plasma heating and confining device. 3,021,272, 2–13–62, Cl. 204—193.2.
Baker, William R., A. Bratenahl, and H. P. Furth, to United States of America, Atomic Energy Commission. Plasma device. 3,029,199, 4–10–62, Cl. 204—193.2.
Baker, William R., and J. P. H. Watteau, to United States of America, Atomic Energy Commission. Cusp-pinch device. 3,038,099, 6–5–62, Cl. 313—161.
Baker, William R., and A. Hartwig, to United States of America, Atomic Energy Commission. Electrical coil structure. 3,056,071, 9–25–62, Cl. 317—158.
Bakke, Bennie S. Knot removing machine. 3,019,824, 2–6–62, Cl. 144—2.
Bakke, Laurence D., to Continental Motors Corp. Ignition device. 3,025,363, 3–13–62, Cl. 200—30.
Bakke, Melvin F.: *See*—
Korski, Henry J., and Bakke. 3,052,418.
Bakke, William W., to The Dow Chemical Co. N-vinyl-5-phenyl-2-oxazolidinone compounds and polymers. 3,033,829, 5–8–62, Cl. 260—77.5.
Bakke, William W., to The Dow Chemical Co. Solutions of poly-n-vinyl-5-methyl-2-oxazolidinone containing alkyl diphenyl ether sulfonate. 3,051,676, 8–28–62, Cl. 260—29.6.
Bakke Wiliam W., and W. F. Tousignant, to The Dow Chemical Co. Crease-resistant resin composition for textiles. 3,058.849, 10–16–62, Cl. 117—139.4.
Bakker, Cornelis: *See*—
Wanmaker, Willem L., Bakker, and Arents. 3,059,133.
Bakker, Willem: *See*—
Van Oort, Johannes F., and Bakker. 3,047,783.
Bak-Kraft Corp., Ltd.: *See*—
Freed, Rudolph J. 3,030,898.
Freed, Rudolph J. 3,031,306.
Bakos, Gyorgy, to North American Philips Co., Inc. Apparatus for recording and reproducing signals. 3,023,942, 3–6–62, Cl. 226—50.
Bakula, Robert G., to McCabe-Powers Body Co. Wheeled vehicles having a ladder assembly. 3,043,398, 7–10–62, Cl. 182—127.
Balamuth, Lewis: *See*—
Kleesattel, Claus, Balamuth, and Kuris. 3,056,698.
Kleesattel, Claus, Balamuth, and Kuris. 3,058,218.
Kleesattel, Claus, Kuris, and Balamuth. 3,053,125.
Kuris, Arthur, Balamuth, and Kleesattel. 3,051,027.
Balamuth, Lewis, and C. Kleesattel, to Cavitron Ultrasonics Inc. Amplitude indicators. 3,047,955, 8–7–62, Cl. 33—172.
Balamuth, Lewis, A. Kuris, and C. Kleesattel, to Cavitron Ultrasonics Inc. Ultrasonic welding. 3,053,124, 9–11–62, Cl. 78—82.
Balan, Isadore. Light dimmer structure. 3,058,020, 10–9–62, Cl. 313—46.

Balas, Jaroslav G. : *See*—
Porter, Lee M., and Balas. 3,066,125.
Porter, Lee M., and Balas. 3,066,126.

Balas, Jaroslav G., to Shell Oil Co. Diene polymerization catalyst. 3,067,189, 12–4–62, Cl. 260—94.3.

Balas, Jaroslav G., and L. M. Porter, to Shell Oil Co. Polymerization process. 3,040,016, 6–19–62, Cl. 260—94.3.

Balass, Valentin. Hydraulic device. 3,019,770, 2–6–62, Cl. 121—38.

Balazs, Arpad : *See*—
Onnlak, Eugene W., and Balazs. 3,039,829.

Balcar, Frederick R., and W. B. Moen, to Air Reduction Co., Inc. Oxygen dispensing. 3,062,017, 11–6–62, Cl. 62—50.

Bald, Warren L. Wheel mounting tool. 3,048,919, 8–14–62, Cl. 29—273.

Balda-Kamerawerk Rudolf Gruter, Kommanditgesellschaft : *See*—
Lange, Karl H. 3,034,394.

Baldanza, Nicholas T. Painting by numbers device. 3,040,447, 6–26–62, Cl. 35—26.

Baldauf, Earl E., and J. A., to Ceramic Development Corp. Method for producing glazes. 3,035,937, 5–22–62, Cl. 117—40.

Baldauf, James A. : *See*—
Baldauf, Earl E. and J. A. 3,035,937.

Baldenhofer, William G., and F. G. Krafft, to The Thompson Grinder Co. Apparatus for submerged grinding. 3,047,987, 8–7–62, Cl. 51—92.

Balder, Theodorus C., to North American Philips Co., Inc. Method and device for the machine soldering of a crystal to the cathode portion of crystal diodes. 3,042,792, 7–3–62, Cl. 219—85.

Baldi, Alfonso L., Jr. : *See*—
Schuster, Ludwig K., and Baldi. 3,031,333.
Schuster, Ludwig K., and Baldi. 3,053,693.
Schuster, Ludwig K., and Baldi. 3,053,702.

Baldi, Newey J., to United States Steel Corp. Method of unclogging powder dispenser. 3,044,908, 7–17–62, Cl. 134—10.

Balding, George H. : *See*—
Aid, Douglas G., and Balding. 3,037,382.

Baldioli, Ugo. Percolator for preparing infusions. 3,066,598, 12–4–62, Cl. 99—285.

Baldrati, Giuliano : *See*—
Camerino, Bruno, Modelli, Patelli, Sala, and Baldratti. 3,061,616.
Camerino, Bruno, Valcavi, Sala, and Baldratti. 3,030,390.

Baldrige, John H. : *See*—
Grabicki, Zbigniew J., and Baldrige. 3,027,344.

Baldwin, Albert W. Saddle. 3,044,234, 7–17–62, Cl. 54—44.

Baldwin, Burton C. : *See*—
Matthews, Joseph E. 3,061,368.

Baldwin, Burton C., 50% to J. M. Lewis. Invalid's wheeled chair. 3,062,582, 11–6–62, Cl. 297—118.

Baldwin, Carroll F. Sleep preventing device. 3,045,225, 7–17–62, Cl. 340—279.

Baldwin, Charles A., ½ to I. B. Barrett. Flue gas well casing pressure cycling system and apparatus. 3,066,737, 12–4–62, Cl. 166—57.

Baldwin, David E. : *See*—
Hood, William C., and Baldwin. 3,018,206.

Baldwin, Douglas, Jr., and M. Nager, to Shell Oil Co. Platforming process. 3,067,130, 12–4–62, Cl. 208—140.

Baldwin, Edward P., and L. F. English, to Lockheed Aircraft Corp. Multiple particulate fluid sampler. 3,059,470, 10–23–62, Cl. 73—170.

Baldwin, Francis P. : *See*—
Miller, Alfred L., Baldwin, and Robison. 3,052,580.
Tegze, Bruce R., Baldwin, and Sernluk. 3,023,191.

Baldwin, Francis P., S. B. Robison, A. L. Miller, and K. W. Powers, to Esso Research and Engineering Co. Laminated structures. 3,039,906, 6–19–62, Cl. 154—52.

Baldwin, Frederick M. : *See*—
Breen, Stanley, and Baldwin. 3,024,708.

Baldwin, George C., to General Electric Co. Methods and apparatus for developing forces with ion beams. 3,050,652, 8–21–62, Cl. 313—63.

Baldwin, George D., to Truck-Lite Co., Inc. Vehicle light. 3,049,613, 8–14–62, Cl. 240—7.1.

Baldwin, George D., to Truck-Lite Co., Inc. Rubber mounting grommet for truck light. 3,067,974, 12–11–62, Cl. 248—27.

Baldwin, Harold T. Electrical contactors or circuit breakers. 3,053,955, 9–11–62, Cl. 200—147.

Baldwin, Howard J. : *See*—
Miller, Lloyd E., and Baldwin. 3,026,159.

Baldwin Instrument Co. Ltd. : *See*—
Hay, Claude H. 3,039,443.

Baldwin, John A., Jr., to Bell Telephone Laboratories, Inc. Nondestructive memory circuits. 3,029,415, 4–10–62, Cl. 340—174.

Baldwin, John H., and H. W. Berry, to Minneapolis-Honeywell Regulator Co. Aircraft control apparatus. 3,053,487, 9–11–62, Cl. 244—77.

Baldwin, John L. E., to Bush and Rank Cintel Ltd. Apparatus for deriving television signals from cinematographic film. 3,067,284, 12–4–62, Cl. 178—7.2.

Baldwin, Leroy D., to General Dynamics Corp. Multiple tuning system for microwave transmission lines. 3,056,098, 9–25–62, Cl. 334—43.

Baldwin-Lima-Hamilton Corp. : *See*—
Arnow, Samuel M. 3,040,537.
Bacchi, Ray. 3,031,899.
Bacchi, Ray. 3,036,167.
Bottenhorn, Hermann A. 3,066,566.
Clements, Albert. 3,037,602.
Cozzo, Giuseppe, and Palmer. 3,019,669.
Laimins, Eric. 3,046,782.
Laimins, Eric. 3,046,788.
Madsen, Walter M. 3,024,538.
Nihlen, Arvib C. K., and Yohn. 3,064,506.
Pien, Hsia-Si. 3,037,178.
Pien, Hsia S. 3,059,710.
Robbins, Leo, and Liccardi. 3,060,351.
Rued, Fred H. 3,043,146.

Baldwin-Montrose Chemical Co., Inc. (Baldwin Division) : *See*—
Christiansen, Clifford S. 3,041,885.
Dailey, Vacell D. 3,040,393.

Baldwin, Philip S. : *See*—
Glacosa, Dante, and Baldwin. 3,035,415.

Baldwin Piano Co., The : *See*—
Benioff, Hugo. 3,049,958.
Bereskin, Alexander B. 3,061,804.
Bissonette, Alfred J., and Lapp. 3,041,568.
Campbell, Donald J. 3,053,524.
Dertouzos, Michael L. 3,058,001.
Duncan, Robert K. 3,060,282.
Jones, Edward M. 3,020,534.
Jones, Edward M. 3,023,406.
Jones, Edward M. 3,043,962.
Jones, Edward M. 3,045,192.
Jones, Edward M., and Love. 3,023,657.
Mahaney, William H., and Jones. 3,040,322.
Martin, Daniel W. 3,039,346.
Meyer, Albert. 3,049,959.
Wheeler, Byron E. 3,037,326.

Baldwin, Richard H., to Standard Oil Co. Multistage oxidation system for preparing dicarboxylic acid. 3,064,044, 11–13–62, Cl. 260—524.

Baldwin, Robert P. : *See*—
Eckert, Raymond H., and Baldwin. 3,019,995.

Baldwin, Winton B., and H. B. McPherson. Wave and tide motor. 3,047,207, 7–31–62, Cl. 230—67.

Bale, Alton G., Jr., and W. H. Moore, to Wisconsin Electrical Mfg. Co., Inc. Position control for power driven mechanism. 3,066,709, 12–4–62, Cl. 143—120.

Bale, Maurice E., Jr., and D. G. Guetersloh, to General Motors Corp. Engine device for reducing unburned hydrocarbons. 3,027,884, 4–3–62, Cl. 123—97.

Balfe, Frank G., Jr. : *See*—
Kratzer, James C., Kennedy, and Balfe. 3,054,210.

Balfour, Joseph, and D. H. Revell, to Reynolds Metals Co. Carrying case for bottles and the like. 3,034,679, 5–15–62, Cl. 220—21.

Balfour, Ronald C. : *See*—
Holmes, Walter L., and Balfour. 3,031,424.

Balicki, Thomas M., 50% to B. Gruskin. Paint roller shield. 3,029,458, 4–17–62, Cl. 15—230.

Baligant, Jeanne : *See*—
Budts, Lucien, and F. and J. de Senigon de Roumefort. 3,041,477.

Balik, Franz. Washing and hydroextracting machine. 3,062,031, 11–6–62, Cl. 68—23.

Balinkin, Isay. Device for color demonstration. 3,069,788, 12–25–62, Cl. 35—28.3.

Balis, Charles B., to Frank D. Saylor & Son. Method of making plastic reinforced fabric and articles made thereby. 3,020,935, 2–13–62, Cl. 139—388.

Balish, Frank R., F. H. McGarrell, C. C. Miller, and A. F. Naylor, to Thompson Ramo Wooldridge Inc. Precision variable frequency generator. 3,023,371, 2–27–62, Cl. 331—38.

Balish, Frank R., to Thompson Ramo Wooldridge Inc. Precision variable frequency generator. 3,023,372, 2–27–62, Cl. 331—39.

Balkheimer, Richard E., to Gebruder Eberhardt. Truck-mounted trench excavating machine. 3,044,194, 7–17–62, Cl. 37—86.

Balkin, Mark, and D. G. Turner, to George Angus & Co. Ltd. Method of making a polytetrafluoroethylene gasket envelope. 3,031,357, 4–24–62, Cl. 154—189.

Balkow-Entwicklungen K.G. : *See*—
Hermann, Joachim, and Senger. 3,046,676.

Balkwill, John T., and J. R. Folkes, to Associated Electrical Industries Ltd. Electron discharge devices. 3,037,833, 6–5–62, Cl. 316—18.

Ball, Arthur G., Jr. Method of precisely joining waveguide cross-sections. 3,048,913, 8–14–62, Cl. 29—155.5.

Ball Bros. Co., Inc. : *See*—
McKee, James R. 3,028,260.

Ball, Charles A., Jr., to Cherry Electrical Products Corp. Snap-action switch. 3,032,623, 5–1–62, Cl. 200—67.

Ball, Charles A., Jr., to Cherry Electrical Products Corp. Snap-action switch. 3,056,002, 9–25–62, Cl. 200—67.

Ball, Charles F. Mining machine having laterally adjustable head. 3,026,097, 3–20–62, Cl. 262—9.

Ball, Charles F., to Joy Mfg. Co. Apparatus for longwall mining. 3,041,054, 6–26–62, Cl. 262—9.

Ball, Constance. Article of furniture. 3,029,448, 4–17–62, Cl. 5—114.

Ball, Frank J., to West Virginia Pulp and Paper Co. Treated lignin product and the manufacture thereof. 3,017,404, 1–16–62, Cl. 260—124.

Ball, Frank J., to West Virginia Pulp and Paper Co. Mineral fiber mat formation. 3,056,708, 10–2–62, Cl. 154—44.

Ball, Frank J., and W. G. Vardell, to West Virginia Pulp and Paper Co. Continuous acidulation and coagulation of lignin in black liquor. 3,048,576, 8–7–62, Cl. 260—124.

Ball, Frank W., to General Motors Corp. Belt driven accessory mounting : 3,033,302, 5–8–62, Cl. 180—64.

Ball, Geoffrey R., and G. H. Bowden, to United States Borax & Chemical Corp. Production of calcium borates. 3,032,391, 5–1–62, Cl. 23—59.

Ball, George L., and G. R. Wilson, to Monsanto Research Corp. Electrical devices. 3,068,434, 12–11–62, Cl. 336—94.

Ball, Henry A., to The Cleanola Co. Spray apparatus for applying coatings. 3,027,869, 4–3–62, Cl. 118—316.

Ball, John D., and C. J. Charske, to Jersey Production Research Co. Continuous calibration of seismic velocity loggers. 3,056,105, 9–25–62, Cl. 340—18.

Ball, John D., and P. S. Phillips ; said Ball assor. to Jersey Production Research Co. D.C. signal to pulse rate converter. 3,060,388, 10–23–62, Cl. 332—9.

Ball, Kenneth D. : *See*—
Gryctko, Carl, and Ball. 3,043,939.

Ball, Lloyd D., B. E. Cowart, G. B. Crane, and O. H. Knowlton, Jr., to Gilfillan Bros., Inc. Velocity tracking system for increasing the range of acquisition of moving targets. 3,040,128, 9–25–62, Cl. 343—7.3.

Ball, Thomas M., to Chrysler Corp. Carburetor construction. 3,038,706, 6–12–62, Cl. 261—23.

Ball, Thomas M., to Chrysler Corp. Fuel injection system. 3,044,457, 7–17–62, Cl. 123—119.

Ball, Thomas M., to Chrysler Corp. Fuel injection system. 3,053,313, 9–11–62, Cl. 158—36.3.

Ball, Thomas M., to Chrysler Corp. Manifold heat valve. 3,070,347, 12–25–62, Cl. 251—303.

Ball, Thomas M., R. P. Graham, C. M. Elliott, J. W. Hurst, and M. E. Noftz, to Chrysler Corp. Fuel injection system. 3,026,860, 3–27–62, Cl. 123—119.

Ball, Thomas Z., to Atlas Chemical Industries, Inc. Arc resistant electric initiator. 3,041,972, 7–3–62, Cl. 102—28.

Ballantine, John M., to Babcock & Wilcox Ltd. Ball race pulverizer. 3,044,714, 7–17–62, Cl. 241—58.

Ballantyne, Charles R., and W. H. Sanderson, to Komline-Sanderson Engineering Corp. Continuous batch compositing apparatus. 3,041,148, 6–26–62, Cl. 23—259.1.

Ballard, Dale H. : *See*—
Doherty, George O., and Ballard. 3,017,884.

Ballard, Dale H., to Deseret Pharmaceutical Co., Inc. Intravenous catheters. 3,055,361, 9–25–62, Cl. 128—214.

Ballard, Duel R. : *See*—
Guy, James W., and Ballard. 3,062,369.

Ballard, Elmer L. Writing aid. 3,019,769, 2–6–62, Cl. 120—103.

Ballard, Herman E. Heavy-grease dispenser. 3,057,521, 10–9–62. Cl. 222—262.

Ballard, Louie W., and M. E. O'Dor, to North American Aviation, Inc. Mobile welding apparatus and method. 3,045,106, 7–17–62, Cl. 219—125.

Ballard, W. H., II : *See*—
Warf, Bernard W. 3,022,023.

Ballard, Walter W., to L. R. Nelson Mfg. Co., Inc. Sprinkler oscillating mechanism. 3,063,646, 11–13–62. Cl. 239—242.

Ballauf, Heinz, to Laux Tonbildschau KG. Reversible magnetic tape cartridge. 3,065,922, 11–27–62, Cl. 242—55.13.

Ballenger, Charles H. : *See*—
Vaughan, Columbus M., and Ballenger. 3,028,708.

Ballentine, William I., Jr., and R. F. Lottes, to United States Steel Corp. Apparatus for coating pipe. 3,016,875, 1–16–62, Cl. 118—306.

Ballentine, William I., Jr., and J. W. Molden, to United States Steel Corp. Apparatus for making metal panels. 3,020,867, 2–13–62, Cl. 113—99.

Baller, Maurice H., to United States of America, Navy. Explosive valve-safety type. 3,057,369, 10–9–62, Cl. 137—68.

Baller, Maurice H., R. K. Bole, S. Hersh, and M. H. Meekins, to United States of America, Navy. Beacon launching system. 3,064,537, 11–20–62, Cl. 89—1.7.

Ballestra, Mario. Apparatus for continuously effecting sulphonation, nitration, and like strongly-exothermic reactions. 3,028,227, 4–3–62, Cl. 23—285.

Ballestra, Mario. Device for continuously measuring, mixing and de-erating materials fed to process plant. 3,058,622, 10–16–62, Cl. 222—77.

Ballestra, Mario. Device for the measurement of the density of pulverulent or liquid materials. 3,067,622, 12–11–62, Cl. 73—434.

Ballin, Gene, to Dosamatic Dropper Corp. Liquid dropper assembly with metering means. 3,020,938, 2–13–62, Cl. 141—24.

Ballinger, Wallace A. Mophead holder having a universal joint and also capable of pivotal movement restrained along a vertical plane. 3,050,762, 8–28–62, Cl. 15—147.

Ballman, Albert A., to Bell Telephone Laboratories, Inc. Yttrium and rare earth borates. 3,057,677, 10–9–62, Cl. 23—59.

Ballmer, James E., to Bausch & Lomb Inc. Mechanical drive. 3,023,635, 3–6–62, Cl. 74—665.

Ballonfabrik Augsburg, vorm. A. Riedinger : *See*—
Hassold, Gabriel. 3,058,127.

Ballou, Kenneth D. : *See*—
Fair, William S., and Ballou. 3,043,706.

Ballou, Sidney R., and D. G. Greenlie, to W. R. Grace & Co. Two-component mixer. 3,067,987, 12–11–62, Cl. 259—7.

Ballwig, Leonard W. : *See*—
Schlayer, Earle G., Gegner, Ballwig, and Sheridan. 3,053,386.

Bally, Adrianus P., and C. D. Ten Have, to Shell Oil Co. Hydrocarbon sweetening process. 3,062,736, 11–6–62, Cl. 208—205.

Balman, Clarence A., to General Dynamics Corp. Honing apparatus. 3,039,234, 6–19–62, Cl. 51—2.

Balmer, Donald F., and W. H. Lyon, to The Soundscriber Corp. Lightweight battery operated transistorized dictating machine. 3,018,111, 1–23–62, Cl. 274—9.

Balmer, Richard C., to General Motors Corp. Internal combustion engine. 3,034,491, 5–15–62, Cl. 123—55.

Balne, Harry J. : *See*—
Portman, Merrill A., and Balne. 3,068,003.

Balne, Harry J., to M. A. Portman. Exercising device. 3,068,002, 12–11–62, Cl. 272—79.

Balogh, Roy O., to McCabe-Powers Body Co. Portable derricks. 3,034,658, 5–15–62, Cl. 212—8.

Baloyan Mills of California, Inc. : *See*—
Sarkissian, Parkev. 3,032,457.

Bals, Edward, to Birfield Engineering Ltd. Spraying of liquids. 3,037,705, 6–5–62, Cl. 239—77.

Bals, Edward J., to Birfield Engineering Ltd. Rotary atomizers. 3,063,644, 11–13–62, Cl. 239—77.

Balsam, Maurice M. Sheet folding machine. 3,038,718, 6–12–62, Cl. 270—40.

Balshaw, Leonard B., to Dishmaster Appliances Ltd. Method of washing glasses or the like. 3,043,724, 7–10–62, Cl. 134—25.

Balsiger, Harold E., to Landis Tool Co. Combination feed actuating means for grinding machines. 3,039,240, 6–19–62, Cl. 51—165.

Balsiger, Harold E., to Land Tool Co. Pressure operated work clamp for ring grinding machines. 3,040,486, 6–26–62, Cl. 51—236.

Balsiger, Harold E., to Landis Tool Co. Corner dressing means for grinding wheels. 3,046,967, 7–31–62, Cl. 125—11.

Balsiger, Harold E., to Landis Tool Co. Roller-type dressers for grinding wheels. 3,067,732, 12–11–62, 125—11.

Baltac, Alexandru, to The Ministry for Petroleum Industry and Chemistry. Torsion balance for the determination of small variations of the apparent weight of samples. 3,017,940, 1–23–62. Cl. 177—246.

Baltazzi, Evan, to Nalco Chemical Co. Microbiocidally active compositions. 3,067,095, 12–4–62, Cl. 167—33.

Balthazor, Bernard E., to Buddy L Corp. Spring motor and mounting for toys. 3,030,732, 4–24–62, Cl. 46—206.

Balthis, Joseph H., Jr., W. F. Gresham, and N. G. Merckling, to E. I. du Pont de Nemours and Co. Polymerization catalyst. 3,038,863, 6–12–62, Cl. 252—431.

Baltimore Biological Laboratory, Inc. : *See*—
Henderson, John A. 3,055,808.

Baltosser, Robert W. : *See*—
Hawkins, James E., Schoellhorn, and Baltosser. 3,046,553.

Baltosser, Robert W., and S. W. Wilcox, to Seismograph Service Corp. Analyzing methods employing optical graticules. 3,051,036, 8–28–62, Cl. 88—14.

Baltzer, Donald H., to Monsanto Chemical Co. New near infrared spectrum filter media. 3,051,596, 8–28–62, Cl. 154—2.7.

Baltzer, Philip K., to Radio Corp. of America. Magnetic cores. 3,034,987, 5–15–62, Cl. 252—62.5.

Baltzer, Philip K., to Radio Corp. of America. Mixed ferrospinels. 3,055,833, 9–25–62, Cl. 252—62.5.

Baltzly, Richard, P. B. Russell, and N. B. Mehta, to Burroughs Wellcome & Co. (U.S.A.) Inc. Azabicyclohexanes and method of preparing them. 3,065,230, 11–20–62, Cl. 260—247.1.

Baluck, Francis M., R. K. Campbell, and J. Hansen, to Western Electric Co., Inc. Devices for forming grooves in articles. 3,052,278, 9–4–62, Cl. 153—54.

Balvin, Joseph A., and W. F. Heine, to Mohawk Business Machines Corp. Roller. 3,042,281, 7–3–62. Cl. 226—181.

Balzer, Christian G., and H. C. Dohrmann, to Buell Engineering Co., Inc. Magnetic cleaning means for electrodes of electrostatic precipitator. 3,068,628, 12–18–62, Cl. 55—100.

Balzer Droll Schnitt- und Werkzeugbau, Firma : *See*—
Muskulus, Willi. 3,050,019.

Balzer, Vernon W. Thrust bearing. 3,033,620, 5–8–62, Cl. 308—162.

Balzers Patent- und Lizens-Anstalt : *See*—
Kraus, Thaddäus, and Rheinberger. 3,034,924.

Bambara, Joseph E., and J. W. Christensen, to Columbia Broadcasting System, Inc. Drum target image orthicon. 3,042,825, 7–3–62, Cl. 313—89.

Bamber, Cletus F., to City Tank Corp. Automatic valve. 3,018,630, 1–30–62, C. 60—97.

Bambi, Harry J. Combined self-propelled, self-guiding tractor and rotary mower apparatus. 3,052,076, 9–4–62, Cl. 56—25.4.

Bame, John L. : *See*—
Sutton, Reid E., and Bame. 3,063,818.
Sutton, Reid E., and Bame. 3,065,065.

Bamford, Henry V. and R. C., to Bamfords Ltd. Hay tedding and windrowing machine. 3,059,403, 10–23–62, Cl. 56—366.

Bamford, John J. H. : *See*—
Hall, Philip M., and Bamford. 3,059,870.

Bamford, John W., to Daystrom, Inc. Miniature potentiometer. 3,059,200, 10–16–62, Cl. 338—174.
Bamford, Rupert C.: *See*—
Bamford, Henry V. and R. C. 3,059,403.
Bamfords Ltd.: *See*—
Bamford, Henry V. and R. C. 3,059,403.
Bampfer, Ludwig. Domestic machine for producing extracts of coffee, tea and the like. 3,049,987, 8–21–62, Cl. 99—281.
Ban, Thomas E.: *See*—
Erck, Louis J., Violetta, and Ban. 3,024,101.
Banasiewicz, Henryk, to Fielden Electronics Ltd. Transistor oscillators and capacity sensitive circuits comprising such oscillators. 3,032,722, 5–1–62, Cl. 331—110.
Banco, Aktiebolaget: *See*—
Månsson, Bo G. E., and Lundgren. 3,036,709.
Bancroft, Charles. Automatic transmission. 3,015,967, 1–9–62, Cl. 74—394.
Bancroft, James E., to Allied Control Co., Inc. Magnetic torque tension device. 3,034,744, 5–15–62, Cl. 242—155.
Bancroft, John W., and D. L. Huppert, to Minneapolis-Honeywell Regulator Co. Acceleration fuel control for a jet engine. 3,063,243, 11–13–62, Cl. 60—39.28.
Bancroft, Joseph, & Sons Co.: *See*—
Langway, Paul W. 3,016,677.
Rainard, Leo W., and Shattuck. 3,058,167.
Russo, Carl J., Trifunovic, and Sinski. 3,027,108.
Russo, Carl J., Trifunovic, and Sinski. 3,058,690.
Bancroft, Norman R., to Pye Ltd. Induction coupling device. 3,054,006, 9–11–62, Cl. 310—92.
Bandenieks, Julius E., to General Electric Co. Electric switch mechanism. 3,017,470, 1–16–62, Cl. 200—64.
Bandes, Selwyn, to Allied Chemical Corp. Process for polymerizing chlorotrifluoroethylene and mixtures thereof with vinylidene fluoride. 3,018,276, 1–23–62, Cl. 260—87.7.
Bandi, Fred, to Manufacture des Montres Universal Perret Freres. Motion-work for time-pieces. 3,029,592, 4–17–62, Cl. 58—7.
Band-It Co.: *See*—
Lodholm, Valdemar. 3,067,640.
Bandli, John C.: *See*—
Robinson, Kenneth I., and Bandli. 3,053,489.
Bandy, Charles R. Suction sawdust collector. 3,034,493, 5–15–62, Cl. 125—13.
Baner La Verne N., to Rohm & Haas Co. Preparation of detergent oil-additive graft copolymers by delayed addition of nitrogen-containing comonomer to a partially polymerized long chain alkyl or vinyl ester and product obtained thereby. 3,067,163, 12–4–62, Cl. 260—45.5.
Banerian, Gordon, to Aerojet-General Corp. Composite bearing. 3,058,786, 10–16–62, Cl. 308—35.
Banes, Fred W.: *See*—
Bartlett, Jeffrey H., Kirshenbaum, Banes, and Muessig. 3,023,185.
Wilson, Howard L., Banes, and Nelson. 3,046,247.
Banfield, Reginald H., to Laporte Chemicals Ltd. Stabilisation of per compounds. 3,043,658, 7–10–62, Cl. 23—166.
Banford, William H., and G. M. Turner, to E. I. du Pont de Nemours and Co. Furfural recovery process. 3,068,245, 12–11–62, Cl. 260—347.9.
Bangert, Robert J., and T. L. Staley, to General Electric Co. Means for strengthening an integrally formed joint. 3,020,333, 2–6–62, Cl. 174—94.
Bania, Edward. Universal joint. 3,062,024, 11–6–62, Cl. 64—7.
Bania, Edward J. Patty forming mold. 3,026,562, 3–27–62, Cl. 17—32.
Banigan, Thomas F., Jr., and P. A. Plasse, to Arthur D. Little, Inc. Surgical adhesive tape having a reticulate web pattern of adhesive formed by monofilaments of adhesive. 3,039,893, 6–19–62, Cl. 117—122.
Bank, Abraham H. Refrigerators. 3,046,757, 7–31–62, Cl. 62—251.
Bank of America National Trust and Savings Assn.: *See*—
Cadmus, Lamont A. 3,028,932.
Bank, Morton L. Collapsible work platform. 3,032,148, 5–1–62, Cl. 189—15.5.
Bank, Thomas A., to The Firstone Tire & Rubber Co. Air spring. 3,038,717, 6–12–62, Cl. 267—65.
Banker, John R., to Westinghouse Electric Corp. Radio receiver. 3,024,360, 3–6–62, Cl. 250—20.
Banker, Oscar H., to Fawick Corp. Planetary speed-ratio device. 3,021,730, 2–20–62, Cl. 74—798.
Banker, Oscar H., to Fawick Corp. Flow divider. 3,024,798, 3–13–62, Cl. 137—101.
Banker, Oscar H., to Fawick Corp. Control valve for air suspension system. 3,032,018, 5–1–62, Cl. 121—46.5.
Banker, Oscar H., to Fawick Corp. Adjustable steering arrangement for automotive land vehicles. 3,032,134, 5–1–62, Cl. 180—79.2.
Banker, Oscar H., to Fawick Corp. Power steering valve. 3,051,142, 8–28–62, Cl. 121—46.5.
Banker, Oscar H., to Fawick Corp. Fluid actuated clutch. 3,070,202, 12–25–62, Cl. 192—85.
Bankerd, Lincoln E. Hydrodynamic ore concentrator. 3,023,949, 3–6–62, Cl. 233—7.
Bankers Box Co.: *See*—
Fellows, John E. 3,018,029.
Banko, George. Optical viewer for cylindrical grinding machines. 3,039,238, 6–19–62, Cl. 51—165.
Banko, George. Linear optical comparator for an operating machine tool. 3,039,239, 6–19–62, Cl. 51—165.
Bankowski, Joseph T. Pipe coupling having radially expansible gripping means. 3,058,760, 10–16–62, Cl. 285—196.
Banks, Agnes F. Doll. 3,021,641, 2–20–62, Cl. 46—135.
Banks, Charles T., to Kimberly-Clark Corp. Papermaking machine. 3,044,766, 7–17–62, Cl. 270—73.
Banks, David D.: *See*—
Hindle, Thomas, and Banks. 3,043,153.
Banks, Frank H.: *See*—
Cochran, John M., Seelhoff, and Banks. 3,023,352.
Banks, Harry R., and C. Nickerson, to American Telephone and Telegraph Co. Braille telephone switchboard unit. 3,057,965, 10–9–62, Cl. 179—91.
Banks, Howard: *See*—
Long, Emile D., and Banks. 3,032,025.
Banks, John H., to The Ferro Corp. Apparatus for making fibrous glass mats. 3,050,039, 8–21–62, Cl. 121—159.
Banks, John H., to Ferro Corp. Belt applicator for coating filaments. 3,067,719, 12–11–62, Cl. 118—257.
Banks, Lawrence and S. Connected shoe soles. 3,029,531, 4–17–62, Cl. 36—25.
Banks, Lionel: *See*—
Went, Norman H., and Banks. 3,067,162.
Banks, Peter B., to English Electric Valve Co., Ltd. Television camera tubes. 3,061,752, 10–30–62, Cl. 313—65.
Banks, Robert L., to Phillips Petroleum Co. Vanadium oxide catalyst for production of solid polymers. 3,018,255, 1–23–62, Cl. 252—455.
Banks, Stanley: *See*—
Banks, Lawrence and S. 3,029,531.
Banks, Waldo H. Fishing lure. 3,031,791, 5–1–62, Cl. 43—.
Banks, William P., to Jersey Production Research Co. Recovery of petroleum crude oil, by in situ combustion and in situ hydrogenation. 3,051,235, 8–28–62, Cl. 166—11.
Bann, Michael S., to Collins Radio Co. Knob. 3,019,667, 2–6–62, Cl. 74—528.
Bann, Robert E., and N. W. Fiess, to American Cyanamid Co. Non-crystallizing methyl violet paste. 3,070,418, 12–25–62, Cl. 8—79.
Bannach, Hans: *See*—
Meister, Ernst, and Bannach. 3,021,781.
Banner, Joseph, to Adjac Mfg. Co. Track and roller combination for sliding screen doors. 3,033,285, 5–8–62, Cl. 160—363.
Banner Metals, Inc.: *See*—
Wilson, James D. 3,027,045.
Wilson, James D. 3,039,643.
Banner, Robert G.: *See*—
Perrin, Tom S., and Banner. 3,065,055.
Banner, Robert G., and J. H. Pierce, to Diamond Alkali Co. Composition comprising tanning lignin sulfonic acid-chromium compound reaction product. 3,039,841, 6–19–62, Cl. 8—94.26.
Banner Welder, Inc.: *See*—
Kranitz, Arthur, and Kellner. 3,041,444.
Bannerman, Douglas G., to E. I. du Pont de Nemours and Co. Method of suppressing foam during polymerization of polyamides. 3,037,960, 5–29–62, Cl. 260—78.
Bannes Engineering Co.: *See*—
Hall, Richard W. 3,030,600.
Banning, J., Aktiengesellschaft, Maschinenfabrik, Firma: *See*—
Keilholz, Friedrich, and Alfoldi. 3,020,833.
Banning, Thomas A., Jr. Cigarette making machines and the like. 3,058,474, 10–16–62, Cl. 131—59.
Banning, Thomas A., Jr. Radio and television program selecting, and time of use recording. 3,070,652, 12–25–62, Cl. 178—5.1.
Banstrom Industries, Inc.: *See*—
Weaver, Paul J. 3,045,435.
Weaver, Paul J. 3,055,393.
Banta, Wesley H., Sr. Grinding and polishing machine. 3,061,981, 11–6–62, Cl. 51—119.
Bantam Bearings Division, The Torrington Co.: *See*—
Lobeck, John H., and Fisher. 3,046,065.
Lobeck, John H., and Fisher. 3,046,066.
Bantam Lite, Inc.: *See*—
Schwartz, Sidney. 3,034,258.
Baptist, James N., to W. R. Grace & Co. Process for preparing poly-β-hydroxybutyric acid. 3,036,959, 5–29–62, Cl. 195—47.
Baptist, James N., to W. R. Grace & Co. Process for preparing poly-β-hydroxybutyric acid. 3,044,942, 7–17–62, Cl. 195—47.
Bär, Ernst and W. Henker; said Henker assor. to said Bär. Forming apparatus for manufacture of wood composition panels or similar products. 3,057,022, 10–9–62, Cl. 19—155.
Bar, Solo. Recording tape having permanent curved end. 3,030,231, 4–17–62, Cl. 117—76.
Bara, Edwin S., to Webcor, Inc. Record changer. 3,033,576, 5–8–62, Cl. 274—10.
Bara, Edwin S., to Webcor, Inc. Automatic control for tape recorders. 3,070,321, 12–25–62, Cl. 242—55.12.
Barabas, Janos, L. Zselyonka, F. Kiss, and A. Libik. Condenser for increasing the resolving power of microscopes. 3,046,837, 7–31–62, Cl. 88—40.
Baradez, Paul: *See*—
Pruvot, Emile, Baradez, Caillat, and Pointud. 3,057,684.
Barakauskas, Peter D. Plant support. 3,026,649, 3–27–62, Cl. 47—34.

Baranauckas, Charles F.: *See*—
Gordon, Irving, and Baranauckas. 3,054,718.

Baranecky, Walter: *See*—
Slemmons, Charles O., Sabo, and Baranecky. 3,061,499.

Baranoff, Andre V. Small-scale gunnery practice apparatus. 3,063,161, 11–13–62, Cl. 35—25.

Baranovic, Michael: *See*—
Love, Robert W., and Baranovic. 3,066,507.

Baranow, Sanford, to General Electric Co. Oxidation resistant alloy. 3,031,297, 4–24–62, Cl. 75—126.

Baranowski, Frank, Jr., to General Electric Co. Flowmeter. 3,036,461, 5–29–62, Cl. 73—194.

Barany, Edmund: *See*—
Johnson, Donald E., and Barany. 3,049,734.

Barany, Robert, to Barbara Goldblatt. Screwdriver. 3,044,513, 7–17–62, Cl. 145—50.

Barash, Samuel A.: *See*—
Goldberg, Edward, Barash, and Moreines. 3,067,969.

Barassi, Carlo, to Pirelli S.p.A. Pneumatic tire with separate tread rings. 3,018,810, 1–30–62, Cl. 152—176.

Barassi, Carlo, to Pirelli Societa per Azoni. Pneumatic tire with separate tread rings. 3,034,553, 5–15–62, Cl. 152—176.

Barbagallo, Charles J., E. S. Fabiszewski, and L. G. Oliari, to Minneapolis-Honeywell Regulator Co. Electrical apparatus for processing digital data. 3,037,193, 5–29–62, Cl. 346—172.5.

Barbara, Charles S. Portable skim filter. 3,036,712, 5–29–62, Cl. 210—169.

Barbaras, Glen D., to E. I. du Pont de Nemours and Co. Film forming composition. 3,057,744, 10–9–62, Cl. 106—286.

Barbeau, Jeannette B.: *See*—
Barbeau, Louis E. 3,061,849.

Barbeau, Louis E., deceased, by J. B. Barbeau, administratrix. Method and apparatus for changing the relative rotating speeds of a threading tool and work to effect disengagement. 3,061,849, 11–6–62, Cl. 10—136.

Barbeau, Raymond A., and D. K. Close, to International Business Machines Corp. Method and apparatus for verifying punched tape. 3,064,885, 11–20–62, Cl. 235—61.7.

Barbee, Thomas L. Device for manipulatively supporting automobile radiators and like articles. 3,027,158, 3–27–62, Cl. 269—156.

Barbella, John A. Clothes line attachments. 3,058,598, 10–16–62, Cl. 211—119.7.

Barber, Alfred W. Regulated power supplies. 3,045,169, 7–17–62, Cl. 321—18.

Barber, Arthur, Jr., to Jet-Heet, Inc. Method and apparatus for manufacture of thermal blankets. 3,062,946, 11–6–62, Cl. 219—46.

Barber-Colman Co.: *See*—
Crandall, Charles B., and Andres. 3,049,231.
Durdin, Augustus C., III. 3,021,764.
Johnson, Stuart J., Bruns, and Whitman. 3,059,546.
Kennedy, Walter W. Re. 25,216.
Kennedy, Walter W. 3,021,776.
Kennedy, Walter W. 3,034,531.
Kennedy, Walter W. 3 051,073.
Kennedy, Walter W. 3,062,234.
Hayes, Harold L. 3,049,146.
Mahoney, Robert J. 3,042,328.
Ring, Wayne A., and Meyers. 3,045,917.
Sidell, Philip A. 3,041,520.
Sievert, Dale W. 3,025,421.
Steiner, John E. 3,046,411.
Sweger, Russell P., Horton, and Young. 3,050,257.
Thomas, John A. 3,049,087.
Tice, William F., and Sievert. 3,069,610.
Trost, Wayne C. 3,017,128.
Trost, Wayne C. 3,017,129.
Trost, Wayne C. 3,053,484.
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Barber, Earle W. and E. W. Barber, Jr., ¼ to J. W. Maxson, ¼ to L. L. Matthews, and ¼ to J. A. Clancy. Flaw-detecting apparatus and method. 3,019,897, 2–6–62, Cl. 209—81.

Barber, Earle W., Jr.: *See*—
Barber, Earle W. and E. W. Barber, Jr. 3,019,897.

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Barber, Ernest E., and K. H. Simpkin, to General Precision Systems Ltd. Analog computer for angular relationships of three axis reference systems. 3,049,298, 8–14–62, Cl. 235—187.

Barber, Franklin T., S. A. Waltman, and V. P. Piana, to Phillips Petroleum Co. Recovery solvent system. 3,070,586, 12–25–62, Cl. 260—93.7.

Barber Greene Co.: *See*—
Barber, Harry A., Burns, and Roots. 3,016,632.
Barber, Harry A., and Sauer. 3,054,334.
Paulus, Robert J., and Farnham. 3,050,159.
Sauer, James F., and Burns. 3,015,971.
Steimel, Robert M. 3,043,019.

Barber, Harry A., and J. F. Sauer, to Barber-Greene Co. Road finishing machine. 3,054,334, 9–18–62, Cl. 94—46.

Barber, Harry A., L. S. Burns, and E. J. Roots, to Barber Greene Co. Ditcher driving and steering mechanism. 3,016,632, 1–16–62, Cl. 37—97.

Barber, Harry J., to The Gleason Works. Chuck for ring gear or like part. 3,036,838, 5–29–62, Cl. 279—2.

Barber, Herbert H., Jr., to Standard Oil Co. Union and gas chromatography column port. 3,015,227, 1–2–62, Cl. 73—23.

Barber, Howard B., to Peabody Seating Co., Inc. Desk-chair combination unit. 3,020,086, 2–6–62, Cl. 297—170.

Barber, Howard B., to Peabody Seating Co., Inc. Vertically adjustable understructure for a desk or the like. 3,058,794, 10–16–62 Cl. 311—39.

Barber, Ira J., to Fostoria Corp. Radiant Heating Device. 3,023,296, 2–27–62, Cl. 219—34.

Barber, Ira J., to Radcor, Inc. Deicing apparatus for railroad cars and the like. 3,061,703, 10–30–62, Cl. 219—19.

Barber, James C.: *See*—
Burt, Reynold B., and Barber. 3,050,374.

Barber, Ronald J.: *See*—
Trevaskis, Henry W., and Barber. 3,025,209.

Barber, William A.: *See*—
Sloan, Carol L., and Barber. 3,046,288.

Barber, William A., and C. L. Sloan, to American Cyanamid Co. Rocket propulsion method. 3,026,671, 3–27–62, Cl. 60—35.4.

Barber, William A., and C. L. Sloan, to American Cyanamid Co. Solution of a carbide in a molten halide. 3,031,413, 4–24–62, Cl. 252—182.

Barberis, Giuseppe: *See*—
Gechele, Giovanni B., Nenz, and Barberis. 3,020,284.

Barbieri, James: *See*—
Hoffmann, Henry, Jr., and Barbieri. 3,021,389.

Barbosa, Alex. Direct reading computer. 3,045,353, 7–24–62, Cl. 33—149.

Barbour, David J.: *See*—
Macdonald, Herbert G., Barbour, and Claus. 3,041,785.

Barboza, Elzearo, to R. P. King. Apparatus for aging alkali cellulose. 3,051,560, 8–28–62, Cl. 23—284.

Barbulesco, Daniel J., F. H. McCormick, and K. E. Spires, Jr., to General Motors Corp. Automatic washer having control means regulating the speed and torque of the drive motor. 3,018,649, 1–30–62, Cl. 68—12.

Barcellona, Joseph J., and A. J. Lechner, to Lockheed Aircraft Corp. Container. 3,026,071, 3–20–62, Cl. 244—137.

Barchet, Reinhold J., to Martin Marietta Corp. Fuel element for nuclear reactors. 3,031,388, 4–24–62, Cl. 204—154.2.

Barchielli, Riccardo: *See*—
Di Marco, Aurelio, Boretti, Barchielli, Spalla, Cattapan, and Bertazzoli. 3,026,316.

Barclay, Robert, Jr., to Union Carbide Corp. Thermoplastic aromatic polyformal resins and process for preparing same. 3,069,386, 12–18–62, Cl. 260—49.

Barclay, Robert, Jr., and R. P. Kurkjy, to Union Carbide Corp. Preparation of organic isocyanates. 3,054,819, 9–18–62, Cl. 260—453.

Barckley, Jobuney J. Battery operated rotary toothbrush. 3,033,197, 5–8–62, Cl. 128—62.

Barco Mfg. Co., Inc.: *See*—
Packard, George B. 3,042,312.
Packard, George B. 3,042,313.
Packard, George B., and Monigle. 3,042,314.

Barcus, Edward L., to General Motors Corp. Remotely controlled rear view mirror. 3,046,840, 7–31–62, Cl. 88—93.

Barcus, Edward L., and H. I. Slone, to General Motors Corp. Remotely controlled mirror. 3,027,807, 4–3–62, Cl. 88—93.

Bard, Albert L., and A. M. Johnsen, to Armco Steel Corp. Abrasive grinding balls. 3,061,209, 10–30–62, Cl. 241—184.

Bard, Donald O., to Chrysler Corp. Air bearings. 3,045,635, 7–10–62, Cl. 308—9.

Bard, Elmer H., to Geerfres Wringer, Inc. Twin bucket assembly. 3 031,207, 4–24–62, Cl. 280—460.

Bard, Francis N.: *See*—
Breitenstein, Victor W. 3,056,615.

Bard, Francis N. Ball joint. 3,033,595, 5–8–62, Cl. 285—187.

Bard, Francis N., V. W. Breitenstein, and R. F. Holtz; said Breitenstein and Holtz assors. to said Bard. Internal combustion device. 3,046,928, 7–31–62, Cl. 123—7.

Bardaay, Donald J. Solvent recovering and purifying method and apparatus. 3,070,463, 12–25–62, Cl. 134—11.

Bardeen, John, to Xerox Corp. Xerographic plate and method. 3,041,166, 6–26–62, Cl. 96—1.

Bardeen, John, to The University of Illinois Foundation. Electrolytic transistor. 3,051,876, 8–28–62, Cl. 317—231.

Barden Corp., The: *See*—
Mims, Bruce L. 3,020,106.
Mims, Bruce L. 3,056,636.
Mims, Bruce L., and Konet. 3,060,397.
Murphy, John J. 3,027,626.

Barden, Wayne A., to CTS Corp. Ground plate for variable resistors. 3,035,241, 5–15–62, Cl. 338—174.

Bardet, George V., to M.J.B. Co. Air control system. 3,045,361, 7–24–62, Cl. 34—87.

Bardfeld, Wilhelm. Braking control for door closers. 3,038,195, 6–12–62, Cl. 16—49.

Bardocz, Arpad. Spectroscopic light source. 3,019,371, 1–30–62, Cl. 315—232.

Bardoneschi, Roland: *See*—
Muller, Georges, and Bardoneschi. 3,037,021.
Muller, Georges, Poittevin, and Bardoneschi. 3,040,093.

Bardos, Thomas J.: *See*—
Herr, Ross R., Enkoji, and Bardos. 3,048,589.

Bardos, Thomas J., D. B. Olsen, and T. Enkoji, to Armour Pharmaceutical Co. Preparation of alloxazine and isoalloxazine compounds. 3,057,865, 10–9–62, Cl. 260—251.5.

Bardsen, Hakon: *See*—
Laerum, Johan. 3,059,633.
Barefoot, Joe W., to Volume Builders Corp. Method and apparatus for making ornamental objects. 3,044,670, 7–17–62, Cl. 229—46.
Barefoot, Victor T., to Moffats Ltd. Hinge mechanism. 3,067,736, 12–11–62, Cl. 126—194.
Barényi, Béla, to Daimler-Benz Aktiengesellschaft. Motor vehicle roof construction. 3,015,519, 1–2–62, Cl. 296—137.
Barenyi, Béla, to Daimler-Benz Aktiengesellschaft. Top for passenger motor vehicles. 3,019,049, 1–30–62, Cl. 296—137.
Barenyi, Bela, to Daimler-Benz Aktiengesellschaft. All-purpose passenger car. 3,021,171, 2–13–62, Cl. 296—24.
Barényi, Béla. Transverse brace for motor vehicles. 3,024,-062, 3–6–62, Cl. 296—28.
Barenyi, Bela, to Daimler-Benz Aktiengesellschaft. Truck-type motor vehicle. 3,036,652, 5–29–62, Cl. 180—54.
Barenyi, Bela, to Daimler-Benz Aktiengesellschaft. Motor vehicle body construction. 3,037,808, 6–5–62, Cl. 296—28.
Barényi, Béla, to Daimler-Benz Atkiengesellschaft. Motor vehicle body construction. 3,061,361, 10–30–62, Cl. 296—28.
Barényi, Béla, to Daimler-Benz Aktiengesellschaft. Motor vehicle construction. 3,061,376, 10–30–62, Cl. 296—28.
Barenyi, Bela, to Daimler-Benz Aktiengesellschaft. Air-guide arrangement, especially in motor vehicles. 3,064,747, 11–20–62, Cl. 180—54.
Barényi, Béla, to Daimeler-Benz Aktiengesellschaft. Resiliently pivotally mounted bumper for vehicles. 3,068,039, 12–11–62, Cl. 296—28.
Barényi, Béla, to Daimler-Benz Aktiengesellschaft. Automobile body and manner of assembling the same. 3,068,040, 12–11–62, Cl. 296—28.
Barényi, Béla, Daimler-Benz Aktiengesellschaft. End wall structures for motor vehicles. 3,068,041, 12–11–62, Cl. 296—28.
Barényi, Béla, to Daimler-Benz Aktiengesellschaft. Arrangement of motor vehicle body elements. 3,068,042, 12–11–62, Cl. 296—28.
Barenyi, Bela, and H. Renner, to Daimler-Benz Aktiengesellschaft. Automobile with camping bed. 3,047,330, 7–31–62, Cl. 296—23.
Bares, Richard W., to Scovill Mfg. Co. Cutting tool for partition walls of multiple tube hose. 3,069,951, 12–25–62, Cl. 83—184.
Bares, Roger J. M., to Societe Lacroix. Self-propelled illuminating missile with device for releasing a parachute at a selected point of its trajectory. 3,056,351, 10–2–62, Cl. 102—34.4.
Barfield, Charles G., to International Harvester Co. Cotton picker moistener. 3,066,467, 12–4–62, Cl. 56—44.
Barfod, Frederik, to The Bendix Corp. Fuel supply system. 3,019,779, 2–6–62, Cl. 123—119.
Barford, Norman C., to Electric & Musical Industries Ltd. Velocity modulation electron discharge devices. 3,042,831, 7–3–62, Cl. 315—3.5.
Bargen, Mathilda K.: *See*—
Bargen, William J. and M. K. 3,057,659.
Bargen, William J. and M. K. Chair desk frame. 3,057,659, 10–9–62, Cl. 297—170.
Barger, Donald E. S. Trunnion forming plugs for supporting paper rolls. 3,034,739, 5–15–62, Cl. 242—68.4.
Bargeski, Alexander J., to Sperry Rand Corp. Self-regulating sweep generator. 3,034,061, 5–8–62, Cl. 328—35.
Barghausen, John W. B., to United States of America, Navy. Missile guidance system. 3,025,023, 3–13–62, Cl. 244—14.
Barghusen, John J.: *See*—
Jonke, Albert A., Barghusen, and Levitz. 3,049,401.
Bargmann, H. E. E. Crane swivel connection. 3,061,389, 10–30–62, Cl. 308—221.
Bargmann, Richard. Explosion safety valves, especially for marine engines. 3,016,913, 1–16–62, Cl. 137—312.
Bargren, Lavern, to National Automatic Tool Co., Inc. Honing apparatus control means. 3,032,932, 5–8–62, Cl. 51—34.
Barie, Walter P., Jr., and C. M. Selwitz, to Gulf Research & Development Co. Separation of oxygenated hydrocarbon. 3,040,081, 6–19–62, Cl. 260—452.
Bariffi, Herbert F., to Hughes Aircraft Co. Inertial time delay switch. 3,020,367, 2–6–62, Cl. 200—61.53.
Barish, Benjamin: *See*—
Hess, Anton, and Barish. 3,027,144.
Barishman, Harry. Dental tools. 3,043,008, 7–10–62, Cl. 32—17.
Barishman, Harry. Oral waste receiver. 3,067,744, 12–11–62, Cl. 128—275.
Barisin, Simon. Multiple electric security jack. 3,019,405, 1–30–62, Cl. 339—36.
Barium and Chemicals, Inc.: *See*—
Bundy, Willard S. 3,065,049.
Bundy, Willard S., and Pavlik. 3,065,052.
Barkalow, Clare E., to Lear, Inc. Temperature compensated viscous damper. 3,070,192, 12–25–62, Cl. 188—90.
Barkas, Emanuel, and E. Schrempp, to Pitney-Bowes, Inc. Registering mechanism. 3,069,084, 12–18–62, Cl. 235—137.
Barkdoll, Archie E., and J. C. Lorenz, to E. I. du Pont de Nemours and Co. Compounds of a Group IV-a metal directly bonded to one and only one cyclopentadienyl nucleus and to anions. 3,038,915, 6–12–62, Cl. 260—429.5.
Barkelew, Chandler H., to Shell Oil Co. Cooling by flowing gas at supersonic velocity. 3,049,891, 8–21–62, Cl. 62—86.
Barkemeyer, Henry R., W. J. McAleer, and P. I. Pollak, to Merck & Co., Inc. Production of semiconductor films. 3,063,871, 11–13–62, Cl. 117—201.
Barker, Aaron F.: *See*—
Dickens, Jerry C. 3,028,978.
Barker, Allan, to United Kingdom Atomic Energy Authority. Gas lubricated journal bearing assemblies. 3,034,837, 5–15–62, Cl. 308—9.
Barker, Arthur, and J. F. Hopkins, to Wilmot-Breeden Ltd. Door fastenings. 3,065,986, 11–27–62, Cl. 292—332.
Barker Automation, Inc.: *See*—
Pitts, Robert D., and Corey. 3,068,509.
Barker, Charles L., Jr., to United States of America, Army. Space flight simulator. 3,041,741, 7–3–62, Cl. 35—12.
Barker, Derek R.: *See*—
Barker, William H. and D. R. 3,029,722.
Barker, George A. Composition for preserving metal surfaces against rust. 3,037,932, 6–5–62, Cl. 252—10.
Barker, George E., to Quaker Chemical Products Corp. Metalworking lubricant. 3,051,655, 8–28–62, Cl. 252—49.9.
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Barker, James M., to Barker Mfg. Co. Leveling device for mobile homes. 3,022,980, 2–27–62, Cl. 254—100.
Barker, Joan. Plastic foot bath. 3,026,540, 3–27–62, Cl. 4—178.
Barker, John L., to Laboratory for Electronics, Inc. Traffic actuated control apparatus. 3,056,107, 9–25–62, Cl. 340—36.
Barker, John L., to Laboratories for Electronics, Inc. Traffic monitoring system. 3,059,232, 10–16–62, Cl. 343—8.
Barker, Joseph W., to Sperry Rand Corp. Typing block-out mechanism for writing machines. 3,018,871, 1–30–62, Cl. 197—180.
Barker, John L., and B. J. Midlock, to Laboratory For Electronics, Inc. Traffic speed monitor. 3,024,443, 3–6–62, Cl. 340—31.
Barker Mfg. Co.: *See*—
Barker, James M. 3,022,980.
Barker, Ray C. Excess breather oil recovery system. Re. 25,121, 2–13–62, Cl. 123—41.86.
Barker, Robert L., Water dispensing device. 3,030,031, 4–17–62, Cl. 239—229.
Barker, Robert P. Drill pipe handling apparatus. 3,065,-865, 11–27–62, Cl. 214—2.5.
Barker, Robert S.: *See*—
Saffer, Alfred, and Barker. 3,024,253.
Saffer, Alfred, and Barker. 3,069,462.
Barker, Robert S., and A. Saffer, to Mid-Century Corp. Process of preparing meta- and para-nitrobenzoic acids. 3,030,414, 4–17–62, Cl. 260—524.
Barker Stanley. Ignition systems for internal combustion engines. 3,059,148, 10–16–62, Cl. 315—206.
Barker, William H, and D. R. Air flow controller damper for air supply or exhausting systems. 3,029,722, 4–17–62, Cl. 98—40.
Barker, William M., and F. X. Rees, to General Railway Signal Co. Lightning protection apparatus for communication systems. 3,056,068, 9–25–62, Cl. 317—61.
Barker, William T., to North American Aviation, Inc. Sealing arrangement for fasteners. 3,029,912, 4–17–62, Cl. 189—36.
Barkley, C. Glen, and W. A. Fletcher, to General Motors Corp. Recessed boring fixture. 3,067,635, 12–11–62, Cl. 77—58.
Barkley, Charles R.: *See*—
Bialozek, William J., and Barkley. 3,027,201.
Barkley, Charles R., to Lempco Products, Inc. Master pin for articulated tracks. 3,060,761, 10–30–62, Cl. 74—254.
Barkley, Dwight W.: *See*—
Ogle, James C., Jr., Barkley, and Harwig. 3,024,341.
Ogle, James C., Jr., and Barkley. 3,053,698.
Barkman, Aaron, M. S. Fujimoto, and B. R. Orwig, to The Sherwin-Williams Co. Continuous small-ball ball mill and method for dispersing pigments in liquid vehicles. 3,050,-263, 8–21–62, Cl. 241—30.
Barkman, Aaron, M. S. Fujimoto, and B. R. Orwig, to The Sherwin-Williams Co. Batch small-ball ball mill for dispensing pigments in liquid vehicles. 3,055,600, 9–25–62, C. 241—172.
Barkocy, John L.: *See*—
Davis, Frank B., and Barkocy. 3,022,526.
Barksdale, Leon S. Railroad car stop. 3,026,818, 3–27–62, Cl. 104—249.
Barkstrom, Elmer E., to Western Electric Co., Inc. Apparatus for selectively inserting articles into magazines. 3,054,-237, 9–18–62, Cl. 53—246.
Barkstrom, Elmer E., J. L. Swaim, and A. Wennerberg, to Western Electric Co., Inc. Assembly apparatus. 3,037,-269, 6–5–62, Cl. 29—203.
Barlament, Norval S., and S. J. Campbell, to FMC Corp. Apparatus for cutting articles. 3,049,954, 8–21–62, Cl. 83—201.
Barlett-Snow-Pacific, Inc.: *See*—
Burnett, Joel M. 3,029,482.
Barlow, Eric, to T.M.M. (Research) Ltd. Machines for feeding textile fibrous materials. 3,067,854, 12–11–62, Cl. 198—58.
Barlow, Harold E. M. Tubular waveguides. 3,066,269, 11–27–62, Cl. 333—98.
Barlow, Joel H.: *See*—
Bishop, Leonard J., and Barlow. 3,019,741.

Barlow, Lester P., to Bar-Rup Corp. Method of freezing citrus fruit juices. 3,024,117, 3–6–62, Cl. 99—206.
Barlow, Lester P., to Atlas Chemical Industries, Inc. Liquid oxygen explosive composition process and apparatus. 3,035,-519, 5–22–62, Cl. 102—23.
Barlow, Norman M., and E. Melanson, to United-Carr Fastener Corp. Snap fastener and like attaching apparatus. 3,049,-462, 8–14–62, Cl. 156—210.
Barlow, Peers R., to Imperial Chemical Industries Ltd. Rocket motor construction. 3,048,972, 8–14–62, Cl. 60—35.6.
Barlow, Roland J., to Cadillac Gage Co. Torque motor armature damping mechanism. 3,024,810, 3–13–62, Cl. 137—622.
Barlow, Robert, to The Metal Box Co. Ltd. Devices for perforating cans. 3,040,429, 6–26–62, Cl. 30—8.
Barlow, Thomas E., to International Minerals & Chemical Corp. Foundry sand composition. 3,023,113, 2–27–62, Cl. 106—38.8.
Barmart: *See*—
Suggs, Lee G., and Martin. 3,038,492.
Barmeier, Norman W.: *See*—
McCormick, Nelle B., and Barmeier. 3,034,815.
Barmer Maschinenfabrik Aktiengeseilschaft: *See*—
Lenk, Wilhelm. 3,018,604.
Lenk, Wilhelm. 3,022,623.
Lohest, Hans. 3,060,357.
Schippers, Heinz. 3,044,246.
Schippers, Heinz. 3,069,745.
Schippers, Heinz, Horster, and Weber. 3,064,910.
Schippers, Heinz, and Weber. 3,036,784.
Schröder, Otto. 3,036,421.
Weber, Wolfgang, and Lohest. 3,054,569.
Barna, Alex J. Archery target tensioning device. 3,037,253, 6–5–62, Cl. 24—68.
Barnard, Clifford A., to Pye Ltd. Television apparatus. 3,026,370, 3–20–62, Cl. 178—7.2.
Barnard, David I. Tape dispenser. 3,035,345, 5–22–62, Cl. 30—124.
Barnard, Dennis A., and A. Nossiter, to Head, Wrightson & Co. Ltd. Apparatus for continuous casting of steel. 3,047,-915, 8–7–62, Cl. 22—57.2.
Barnard, Hamilton I. Surgical splint. 3,070,091, 12–25–62, Cl. 128—87.
Barnard, John R. Propulsion and lifting surface system for aerial vehicles. 3,017,140, 1–16–62, Cl. 244—15.
Barnard, Paul, Jr., to The Atlantic Refining Co. Chemical method for cleaning disposal and injection wells. 3,070,-162, 12–25–62, Cl. 166—38.
Barnard, Randolph H., to Johns-Manville Corp. Method and apparatus for producing glass fibers. 3,063,093, 11–13–62, Cl. 18—8.
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Barnard, William B., to Minneapolis-Honeywell Regulator Co. Selective control and display apparatus. 3,058,663, 10–16–62, Cl. 235—1.
Barnard, William H., to The Bendix Corp. Transistorized voltage regulator. 3,044,006, 7–10–62, Cl. 322—28.
Barnard, Willaim S.: *See*—
Harmon, Carlyle, Barnard, and Johnson. 3,043,733.
Barner, Rotraud E.: *See*—
Ruter, Rudolf G. 3,069,796.
Barnes, Allan F. C., V. B. Elliott, and R. S. Strauss, to Fry's Metal Foundries Ltd. Apparatus for soldering. 3,056,370, 10–2–62, Cl. 113—126.
Barnes, Arthur G., I. A. M. Hall, and R. K. Thomasson, to The English Electric Co. Ltd. Aircraft manoeuvre boost control systems. 3,044,735, 7–17–62, Cl. 244—83.
Barnes, Barry P. Jockey game. 3,057,623, 10–9–62, Cl. 273—134.
Barnes, Charles E. Brush wiper. 3,061,140, 10–30–62, Cl. 220—90.
Barnes, Charles H.: *See*—
Stevens, Rita M., and Barnes. 3,031,687.
Barnes, Charles R., and C. R. Geesner, to United States of America, Air Force. Silicon nitride dielectric. 3,038,243, 6–12–62, Cl. 29—25.42.
Barnes, Charles T.: *See*—
Barnes, Llewellyn T. 3,023,745.
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Barnes, Clare L., to Bell Telephone Laboratories, Inc. Broadband polarization rotator. 3,046,506, 7–24–62, Cl. 333—81.
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Barnes Drill Co.: *See*—
Gross, Maurice J. 3,016,660.
Barnes, Emmett A., and R. B. Withington. Audible signal device for fishing poles. 3,053,003, 9–11–62, Cl. 43—17.
Barnes Engineering Co.: *See*—
Barnes, Robert B., and Collyer. 3,034,398.
Barnes, Robert B., and De Waard. 3,057,693.
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Collyer, Philip W., and Barnes. 3,025,744.
Jankowitz, Gerald. 3,061,730.
McHenry, Thomas F. 3,059,113.
Merlen, Monty M. 3,020,407.
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Miserocchi, Henry F. 3,061,476.
Rudomanski, Andrew C., and De Waard. 3,058,346.
Sherman, Bennett. 3,057,248.
Weiss, Morris. 3,039,006.
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Barnes, Harold E., to Electric & Musical Industries Ltd. Electric motors. 3,064,150, 11–13–62, Cl. 310—154.
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Brown, Frank E. 3,070,105.
Barnes-Hind Laboratories, Inc.: *See*—
Krezanoski, Joseph Z. 3,044,937.
Barnes, James C., to National Research Council. Uni-axial pantograph. 3,058,219, 10–16–62, Cl. 33—23.
Barnes, James F., to Foil Process Corp. Carton. 3,018,939, 1–30–62, Cl. 229—44.
Barnes, James F., and H. I. Silversher, to Foil Process Corp. Foil tubing. 3,044,498, 7–17–62, Cl. 138—143.
Barnes, James H. Wheel cover positioned style sidewall. 3,036,866, 5–29–62, Cl. 301—37.
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Weyerts, Walter J., and Barnes. 3,043,688.
Barnes, Lell E., to Curtiss-Wright Corp. Propeller synchronizing and synchrophasing system. 3,066,741, 12–4–62, Cl. 170—135.29.
Barnes, Leslie W., to The A. H. Nilson Machine Co. Vertical four slide wire or ribbon metal forming machine. 3,048,-199, 8–7–62, Cl. 140—71.
Barnes, Lester H., to Continental Oil Co. Vacuum breaker device for tank cars. 3,048,958, 8–14–62, Cl. 55—316.
Barnes, Lewis C. Electric toy. 3,064,390, 11–20–62, Cl. 46—232.
Barnes, Llewellyn T., ⅛ to C. T. Barnes, and ⅛ to J. F. Woog. Supplemental air by-pass system for internal combustion engines. 3,023,745, 3–6–62, Cl. 123—124.
Barnes, Llewellyn T. Venturi degassing attachment. 3,032,-969, 5–8–62, Cl. 60—30.
Barnes, Llewellyn T., 33⅓% to C. T. Barnes, and 33⅓% to J. F. Woog. Adjustable electrical reactance unit. 3,058,-094, 10–9–62, Cl. 317—249.
Barnes, Llewellyn T., 33⅓% to C. T. Barnes and 33⅓% to J. F. Woog. Multi-channel tuner. 3,068,384, 12–11–62, Cl. 317—249.
Barnes, Llewellyn T. and C. T., 33⅓% to J. F. Woog. Internal combustion engine. 3,033,181, 5–8–62, Cl. 123—25.
Barnes, Loyd A.: *See*—
Touchman, William S., and Barnes. 3,034,781.
Barnes Mfg. Co.: *See*—
Hunter, Richard E. 3,045,603.
Barnes, Oliver G. Apparatus for applying circumferential pressure on the periphery of a circular object. 3,020,831, 2–13–62, Cl. 100—232.
Barnes, Paul J. Game net mounting post. 3,065,964, 11–27–62, Cl. 273—29.
Barnes, Paul T.: *See*—
Weinandt, Robert A., and Barnes. 3,016,588.
Barnes, Percy J., to Advanced Development Association, Ltd. Equipment for sterilizing carts. 3,046,398, 7–24–62, Cl. 250—51.
Barnes, Percy J., to Burroughs Corp. Marker sensing device. 3,065,355, 11–20–62, Cl. 250—219.
Barnes, Porter L., Jr., to Leesona Corp. Package arm control mechanism for winding machines. 3,016,205, 1–9–62, Cl. 242—18.
Barnes, Robert, to Associated Electrical Industries Ltd. Electrical socket contacts. 3,060,403, 10–23–62, Cl. 339—258.
Barnes, Robert B.: *See*—
Collyer, Philip W., and Barnes. 3,025,744.
Barnes, Robert B., and P. W. Collyer, to Barnes Engineering Co. In-line infrared spectrometer. 3,034,398, 5–15–62, Cl. 88—14.
Barnes, Robert B., and R. D. De Waard, to Barnes Engineering Co. Method for monitoring a component of mixed gas streams and apparatus therefor. 3,057,693, 10–9–62, Cl. 23—232.
Barnes, Robert E. Sharp cut-off spark gap indicator. 3,017,-568, 1–16–62, Cl. 324—18.
Barnes, Robert E. Hum compensator. 3,042,877, 7–3–62, Cl. 330—149.
Barnes, Robert H., and R. A. Rhoda, to Berkeley Pump Co. Hydro-jet control apparatus. 3,030,909, 4–24–62, Cl. 115—12.
Barnes, Robert K.: *See*—
Guest, Howard R., and Barnes. 3,037,946.
Guest, Howard R., and Barnes. 3,065,276.
Barnes, Robert K., R. W. McLaughlin, and F. Hostettler, to Union Carbide Corp. Polyurethane foam and method of preparing same. 3,022,256, 2–20–62, Cl. 260—2.5.
Barnes, Robert K., R. W. McLaughlin, and F. Hostettler, to Union Carbide Corp. Polyurethane foam and preparation of same. 3,039,976, 6–19–62, Cl. 260—2.5.
Barnes, Robert S., Jr., and W. F. Mann, to Standard Oil Co. Lubricant compositions. 3,032,502, 5–1–62, Cl. 252—51.5.

Barnes, Robert W. Fire fighting foam generator. 3,065,797, 11–27–62, Cl. 169—15.
Barnes, Thomas W., and B. E. Hill, Jr., to E. I. du Pont de Nemours and Co. Fluid yarn-transfer device. 3,051,364, 8–28–62, Cl. 226—97.
Barnes, W. F., and John, Co. : *See*—
Abrams, Victor R., Werge, and Ryan. 3,041,958.
Bashor, Nelson P., and Raap. 3,045,130.
Bulliet, Leander J. 3,040,607.
Jackson, Paul S. 3,021,742.
Stohlquist, Roger H. 3,015,303.
Sullivan, Eugene B. 3,058,129.
Barnes, William M. : *See*—
Gore, Le Roy D., and Barnes. 3,021,685.
Barnet, Fredrick R., W. T. Johnson, and S. P. Prosen, to United States of America, Navy. Plastics lightweight cartridge case. 3,026,802, 3–27–62, Cl. 102—43.
Barnett, Cecil H., W. V. K. Large, and H. M. Pruden ; said Barnett assor. to American Telephone and Telegraph Co., said Large and said Pruden assors. to Bell Telephone Laboratories, Inc. Repeater for checking circuit continuity of a signaling system. 3,021,397, 2–13–62, Cl. 179—175.3.
Barnett, Cecil H., W. V. K. Large, and H. M. Pruden ; said Barnett assor. to American Telephone and Telegraph Co., said Large and said Pruden assors. to Bell Telephone Laboratories, Inc. Continuous checking of circuit continuity of a signaling system. 3,021,398, 2–13–62, Cl. 179—175.3.
Barnett, Charles H., and R. E. Teagle, to The Foundry Equipment Co. Vertical oven. 3,058,732, 10–16–62, Cl. 263—8.
Barnett, Don C., to Ranco Inc. Control apparatus. 3,056,-381, 10–2–62, Cl. 116—124.
Barnett, Don C., and M. R. Owen, to Ranco Inc. Control apparatus. 3,061,701, 10–30–62, Cl. 200—136.3.
Barnett, Edward H. : *See*—
Lipschutz, Sidney, and Barnett. 3,065,894.
Lipschutz, Sidney, and Barnett. 3,065,895.
Barnett, Eugene R., and C. E. Hendershot. Internal combustion engine. 3,026,859, 3–27–62, Cl. 123—39.
Barnett, Forest H. Parking system. 3,061,120, 10–30–62, Cl. 214—16.1.
Barnett, Glenroy W., and R. P. Einsel, to Industrial Nucleonics Corp. Cutting apparatus for non-uniform weight per unit length material. 3,066,562, 12–4–62, Cl. 83—74.
Barnett, Harry B. Means for grinding automotive brake shoes. 3,060,649, 10–30–62, Cl. 51—241.
Barnett, Harry E. Toy stethoscope with electronically simulated heartbeat. 3,024,561, 3–13–62, Cl. 46—232.
Barnett, Irvin, to Johns-Manville Corp. Fiber opening and cleaning. 3,042,976, 7–10–62, Cl. 19—90.
Barnett, Irvin, and S. Speil, to Johns-Manville Corp. Handleable heat insulation shapes. 3,055,831, 9–25–62, Cl. 252—62.
Barnett, James W. Fountain. 3,022,010, 2–20–62, Cl. 239—17.
Barnett, John S., to Precision Controls Corp. Quality control system. 3,049,588, 8–14–62, Cl. 178—6.
Barnett, Luther D. Vari-table. 3,051,320, 8–28–62, Cl. 211—178.
Barnett, Paul B., to Dresser Industries, Inc. Drill string joint. 3,015,500, 1–2–62, Cl. 285—17.
Barnette, Gaspar C., to Learning Through Seeing, Inc. Tachistoscopes. 3,021,751, 2–20–62, Cl. 88—20.
Barney, Arthur L., to E. I. du Pont de Nemours and Co. Halogenated polyacetals. 3,067,173, 12–4–62, Cl. 260—93.
Barney, Arthur L., V. A. Engelhardt, and L. Palmbeck, Jr., to E. I. du Pont de Nemours and Co. Photopolymerizable compositions, elements and process. 3,046,127, 7–24–62, Cl. 96—35.
Barney, James E., II, W. G. Tuskan, and A. L. Hensley, Jr., to Standard Oil Co. Apparatus for oxidation of organic liquids. 3,058,813, 10–16–62, Cl. 23—253.
Barney, John D. : *See*—
Schneiderman, Herman, Bendarzewski, and Barney. 3,021,241.
Barney, Kay H., and L. Greenspan, to Sperry Rand Corp. Electronic programming means for synchronizing a plurality of remotely located similar means. 3,044,065, 7–10–62, Cl. 343—227.
Barney, Walter. Protective circuit. 3,017,564, 1–16–62, Cl. 323—9.
Barnhart, Carlton L. Bottled drink machine. 3,019,942, 2–6–62, Cl. 221—125.
Barnhart, George E. Cylinder construction. 3,030,159, 4–17–62, Cl. 309—2.
Barnhart, Harry E., to The Bendix Corp. Contact mounting. 3,025,488, 3–13–62, Cl. 339—64.
Barnhisel, Frank R. : *See*—
Bonkowski, Teofil L. 3,025,645.
Barnhizer, Harold K., and L. N. Williams, to General Motors Corp. Lamp assembly. 3,020,394, 2–6–62, Cl. 240—41.
Barnstead, John W., to General Electric Co. Method of making wire racks. 3,021,873, 2–20–62, Cl. 140—71.
Barnstead Still and Sterilizer Co. : *See*—
Smith, Verity C. 3,031,082.
Barnum, Caleb W., to Lyman D. Dunn. Means for making fruit flavored sushy food drink. 3,044,277, 7–17–62, Cl. 62—342.
Barnum, Rudolph : *See*—
Hayter, Richard B. 3,023,003.
Barogenics, Inc. : *See*—
Gerard, George, and Brayman. 3,063,594.
Baron, Abraham L., to Chase Chemical Co. Method for producing cobalamins. 3,067,109, 12–4–62, Cl. 195—80.
Baron, Alfred J. Attachable can dolly. 3,058,755 10–16–62, Cl. 280—35.
Baron, Alfred M. E. : *See*—
Kopp, Georges, Gangneux, and Baron. 3,043,647.
Baron, Howard C. Self-generating pressure device for infusion administration systems. 3,023,750, 3–6–62, Cl. 128—214.
Baron, Hubertus, and H. Friederich, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of chloralkyl esters of acrylic acid and their substitution products. 3,023,250, 2–27–62, Cl. 260—486.
Baron, Oswald. Internal telephone systems. 3,036,162, 5–22–62, Cl. 179—39.
Baron, Raoul M. A., to Outillage Electrique Silex. Interference suppressor for electrical apparatus. 3,048,722, 8–7–62, Cl. 310—72.
Barosi, Giorgio A., to Reynolds Metals Co. Bridge construction. 3,027,687, 4–3–62, Cl. 50—299.
Barotz, Peter S., to P-G Products Mfg. Co., Inc. Faucet attachment for dishwashers and the like. 3,055,392, 9–25–62, Cl. 137—562.
Barows, Arthur G. : *See*—
Witt, Robert H., and Barows. 3,043,078.
Barr, Arthur C. Nursing bottle units. Re. 25,247, 9–25–62, Cl. 215—11.
Barr, Arthur C. Nursing bottle unit. 3,028,983, 4–10–62, Cl. 215—7.
Barr, Arthur E. : *See*—
Hosking, William J. C., and Barr. 3,039,554.
Barr, Charles R., R. W. Henn, and I. F. Salminen, to Eastman Kodak Co. Novel class of 3-indazolinone developing agent. 3,043,694, 7–10–62, Cl. 96—55.
Barr, Courtland H., Jr. : *See*—
Barr, Courtland H., Sr., C. H. Barr, Jr., and J. W. 3,017,050.
Barr, Courtland H., Sr., C. H. Barr, Jr., and J. W. 3,041,242.
Barr, Courtland H., Sr., C. H. Barr, Jr., and J. W. Blood sample collection apparatus. 3,017,050, 1–16–62, Cl. 215—48.
Barr, Courtland H., Sr., C. H. Barr, Jr., and J. W. Gas and heat sterilization of dried human plasma. 3,041,242, 6–26–62, Cl. 167—78.
Barr, Frank T., and J. F. Black, to Esso Research and Engineering Co. High flux homogeneous reactor with circulating fissile material. 3,050,454, 8–21–62, Cl. 204—193.2.
Barr, George M., to T. S. Simms & Co. Ltd. Machines for making mop swabs. 3,027,198, 3–27–62, Cl. 300—16.
Barr, Harold N. : *See*—
Precht, Walter, and Barr. 3,031,395.
Barr, Irwin R. : *See*—
Critcher, John L., La Costa, Sweeney, and Barr. 3,033,-116.
Barr, Irwin R., to Aircraft Armaments, Inc. Barrel-feed mechanism. 3,039,364, 6–19–62, Cl. 89—33.
Barr, Irwin R., to United States of America, Army. Vision block mounting. 3,039,405, 6–19–62, Cl. 109—58.5.
Barr, Irwin R., to Aircraft Armaments, Inc. Buffer. 3,039,-757, 6–19–62, Cl. 267—1.
Barr, Irwin R., to Aircraft Armaments, Inc. Automatic machine gun with recoiling barrel and hydraulic accelerator. 3,058,398, 10–16–62, Cl. 89—168.
Barr, Irwin R. Flying machine. 3,067,967, 12–11–62, Cl. 244—12.
Barr, James R., to General Electric Co. Seal for transformer casing and method of assembling same. 3,054,975, 9–18–62, Cl. 336—60.
Barr, John C., to Turbomachines Ltd. Pressure-fluid motors. 3,069,137, 12–18–62, Cl. 253—166.
Barr, John T., to Pennsalt Chemicals Corp. Fluorinated organic compounds and polymers thereof. 3,020,267, 2–6–62, Cl. 260—92.1.
Barr, John T., to Pennsalt Chemicals Corp. Copolymers of trifluoroethyl vinyl ether and fluoroalkyl acrylates, and process for preparing same. 3,025,279, 3–13–62, Cl. 260—86.1.
Barr, John T., to Pennsalt Chemicals Corp. Copolymers. 3,053,815, 9–11–62, Cl. 260—78.5.
Barr, John W. : *See*—
Barr, Courtland H., Sr., C. H. Barr, Jr., and J. W. 3,017,050.
Barr, Courtland H., Sr., C. H. Barr, Jr., and J. W. 3,041,242.
Barr, Leslie : *See*—
Safianoff, Albert, Barr, and Brandt. 3,061,152.
Barr, Naaman F. : *See*—
Esswein, Edward J., Jr., and Barr. 3,030,229.
Barr, Preston W., to Crown Cork & Seal Co. Floor bin hopper. 3,067,852, 12–11–62, Cl. 198—33.
Barr, Roy E. Method and apparatus for use in preparing dental amalgams. 3,023,889, 3–6–62, Cl. 206—63.5.
Barr, Samuel W., 41% to H. M. Robinson. Power driven self-contained toothbrush and gum massage apparatus. 3,029,451, 4–17–62, Cl. 15—23.
Barra, Frank J., W. F. Chaple, and R. E. McMinn, to Black, Sivalls & Bryson, Inc. Apparatus for metering liquids. 3,041,876, 7–3–62, Cl. 73—224.
Barradell, Albert : *See*—
Brown, Leonard, Barradell, and Ladbrooke. 3,058,325.

Barrall, Melvin K. : *See*—
Meissner, William E., Cundiff, and Barrall. 3,066,461.
Barrass, Richard A., to FMC Corp. Liquid-cooled cable for electric furnaces and connectors therefor. 3,021,380, 2–13–62, Cl. 174—15.
Bar-Ray Products, Inc. : *See*—
Hollands, George. 3,052,799.
Barre, Raymond M. : *See*—
Hosbein, John M., and Barre. 3,056,362.
Barre, Wade E., Jr., and W. H. Morgan, Jr., to Sylvania Electric Products Inc. Socket. 3,018,462, 1–23–62, Cl. 339—12.
Barre, Wade E, and J. B. Clarkson, to Sylvania Electric Products Inc. Transparency previewer. 3,018,575, 1–30–62, Cl. 40—63.
Barrell, Robert F., to Westinghouse Electric Corp. Economic data computer. 3,018,050, 1–23–62, Cl. 235—193.
Barrelle, Roland J., and C. F. Hayes, to General Motors Corp. Combustion chamber support and igniter. 3,048,015, 8–7–62, Cl. 60—39.82.
Barrentine Mfg. Co. : *See*—
Barrentine, Thomas A. 3,063,225.
Barrentine, Thomas A., to Barrentine Mfg. Co. Rotary cutter. 3,063,225, 11–13–62, Cl. 56—25.4.
Barrer, Richard M., and J. W. Baynham, to Union Carbide Corp. Process for making crystalline zeolite K-G. 3,056,-654, 10–2–62, Cl. 23—113.
Barrer, Richard M., and D. C. Sammon, to Union Carbide Corp. Hydrogen-ion-exchange of zeolites. 3,059,993, 10–23–62, Cl. 23—112.
Barrere, Marcel, and A. Moutet, to "Office National d'Etudes et de Recherches Aeronautiques" (O.N.E.R.A.). Flow meter. 3,021,710, 2–20–62, Cl. 73—229.
Barresi, Andreé E. Powder de-duster or collector apparatus for capsule-filling machines. 3,055,403, 9–25–62, Cl. 141—93.
Barreto, Martinez. Disintegrator bar and method of disintegrating bagasse mats. 3,016,818, 1–16–62, Cl. 100—75.
Barrett, Burkett R., III, and E. L. Wagoner, to Union Carbide Corp. Iron-base alloy. 3,067,026, 12–4–62, Cl. 75—126.
Barrett, Edmund, to Ajax Foundry Products, Inc. Electric lighting fixture assembly. 3,043,611, 7–10–62, Cl. 285—164.
Barrett, Edward F., to Victor Mfg. & Gasket Co. Sealing device. 3,059,936, 10–23–62, Cl. 277—43.
Barrett, Edward L., to D. B. Alexander, E. R. Bourke, E. W. Schneider, and L. J. Gary, as trustees. Quick activating battery. 3,017,449, 1–16–62, Cl. 136—90.
Barrett, Edward R. Load packing mechanism for carriers. 3,034,672, 5–15–62, Cl. 214—302.
Barrett, Elliott P., to The Baugh Chemical Co. Sugar refining adsorbent and the production thereof. 3,021,287, 2–13–62, Cl. 252—421.
Barrett, Fred O., and C. G. Goebel, to Emery Industries, Inc. Hydrogenation process. 3,036,099, 5–22–62, Cl. 260—409.
Barrett, George M. Rotary hydraulic motor. 3,037,488, 6–5–62, Cl. 121—61.
Barrett, George T., and M. I. Crystal, to Sylvania Electric Products, Inc. Visual display system. 3,037,189, 5–29–62, Cl. 340—166.
Barrett, Harry B. Grinder. 3,022,610, 2–27–62, Cl. 51—96.
Barrett, Harry B. Lathes and method of making same. 3,049,953, 8–21–62, Cl. 82—24.
Barrett, Herbert M., and C. A. Sauber, to Phillips Petroleum Co. Flocculation of solids. 3,025,236, 3–13–62, Cl. 252—8.5.
Barrett, Isaac B. : *See*—
Baldwin, Charles A. 3,066,737.
Barrett, John J., and E. J. Marcotte. Boat trailer. 3,067,892, 12–11–62, Cl. 214—506.
Barrett, La Vern H., to Manet Enterprises, Inc. Packaging machine. 3,016,665, 1–16–62, Cl. 53—73.
Barrett, Lawrence G. : *See*—
Boyd, Leo R., and Barrett. 3,065,755.
Barrett, Leon, to Ajax Stamping and Mfg., Inc. Adjustable lighting unit. 3,061,717, 10–30–62, Cl. 240—81.
Barrett, Maurice L., Jr., to Shell Oil Co. Pipe line scraper diverter. 3,047,020, 7–31–62, Cl. 137—625.46.
Barrett, Paul A., A. G. Caldwell, and L. P. Walls, to Burroughs Wellcome & Co. (U.S.A.) Inc. Derivatives of piperazine. 3,041,341, 6–26–62, Cl. 260—268.
Barrett, Robert D., to International Harvester Co. Tractor vehicle weighting means. 3,032,352, 5–1–62, Cl. 280—150.
Barrett, Robert L., to United States of America, Navy. Sonar system. 3,064,234, 11–13–62, Cl. 340—3.
Barrett, William A., Jr., to Bell Telephone Laboratories, Inc. Magnetic memory circuits. 3,067,408, 12–4–62, Cl. 340—174.
Barrett, William G., to Sperry Rand Corp. Multistable circuit. 3,016,469, 1–9–62, Cl. 307—88.5.
Barrick, James G. : *See*—
Unkefer, Gilbert G., Barrick, and Meek. 3,046,153.
Barrick, James E., and C. M. Lucas, to Consolidated Electronics Industries Corp. Winding terminal. 3,054,027. 9–11–62, Cl. 317—158.
Barricklow, Charles H. : *See*—
Davies, Robert H., Webster, and Barricklow. 3,028,102.
Barricks, Joseph B. Toy balloon ejecting pistol. 3,025,634, 3–20–62, Cl. 46—88.

Barricks, Joseph B., 70% to R. L. Lowell, and 30% to F. Shipley. Toy liquid ejecting pistol. 3,040,932, 6–26–62, Cl. 222—79.
Barringer, Anthony R., to Selco Exploration Co. Ltd. Reconnaissance electromagnetic survey pack. 3,017,567, 1–16–62, Cl. 324—6.
Barringer, Anthony R., to Barringer Research Ltd. Method and apparatus for the detection of ore bodies. 3,020,471, 2–6–62, Cl. 324—6.
Barringer, Mary T. : *See*—
Lovette, Edd H. 3,042,261.
Barringer Research Ltd. : *See*—
Barringer, Anthony R. 3,020,471.
Barringer, William C. : *See*—
Sieger, George M., Barringer, and Remmers. 3,068,264.
Barrington, Burchus Q., to Halliburton Co. Drillable limit plug. 3,051,241, 8–28–62, Cl. 166—143.
Barrington, John W. Temple hinge for spectacle frames. 3,031,925, 5–1–62, Cl. 88—53.
Barrington, Leonard F. : *See*—
Wolnak, Bernard, and Barrington. 3,041,250.
Barrington, Otto. Hay baler trailer. 3,034,832, 5–15–62, Cl. 298—2.
Barriol, Louis M. Y., to Etablissements Economiques du Casino, Guichard-Perrachon & Cie. Apparatus for the automatic stacking of packages on movable platforms. 3,070,-240, 12–25–62, Cl. 214—6.
Barron and Crowther Ltd. : *See*—
Martinez, Mario. 3,029,039.
Barron, Edward R. : *See*—
Kennedy, Stephen J., and Barron. 3,032,894.
Barron, Edward R., to United States of America, Army. Blast attenuating footwear. 3,061,951, 11–6–62, Cl. 36—7.5.
Barron, Kenneth : *See*—
Critchley, Octavius H., Barron, and Kellet. 3,052,116.
Barron, Lee H. Method for making diamond tools. 3,046,204, 7–24–62, Cl. 204—16.
Barron, Raymond C., W. C. Stevens, Jr., and B. L. Way, to Quality Metal Finishing Co. Buffing machine. 3,024,576, 3–12–62, Cl. 51—76.
Barrow, Roy W. : *See*—
Marlette, Goley R., and Barrow. 3,028,739.
Barrow, William H. Ladder support for horizontal timber. 3,020,973, 2–13–62, Cl. 182—214.
Barrow, William H. Ladder attachment. 3,037,579, 6–5–62, Cl. 182—107.
Barrows, Royal L. : *See*—
Dowd, Howard M., and Barrows. 3,041,072.
Dowd, Howard M., and Barrows. 3,063,716.
Dowd, Howard M., and Barrows. 3,070,369.
Bar-Rup Corp. : *See*—
Barlow, Lester P. 3,024,117.
Barry, Adelbert, Aerially launched marine mine. 3,017,831, 1–23–62, Cl. 102—10.
Barry, Adelbert, to Jersey Production Research Co. Drill stem testing packers, pipe, and couplers. 3,032,116, 5–1–62, Cl. 166—187.
Barry, Adelbert, to Jersey Production Research Co. Method of anchoring a well packer reinforcement. 3,055,095, 9–25–62, Cl. 29—421.
Barry, Adelbert, and W. D. Mounce, to Jersey Production Research Co. Drill stem testing device. 3,059,695, 10–23–62, Cl. 166—33.
Barry, Donald J., to Minnesota Mining & Mfg. Co. Polytetrafluoroethylene films and method for making same. 3,027,601, 4–3–62, Cl. 18—57.
Barry, George H., to Collins Radio Co. Disk reference phase-pulse detector. 3,049,673, 8–14–62, Cl. 329—104.
Barry, George H., and M. L. Doelz, to Collins Radio Co. Error detection by shift register parity system. 3,024,444, 3–6–62, Cl. 340—147.
Barry, John K. : *See*—
Bisbing, Robert H., and Barry. 3,030,849.
Barry, John K., to South Chester Corp. Fastening device. 3,038,362, 6–19–62, Cl. 292—19.
Barry, Leonard D., to Ampex Corp. Transversely recorded tape. 3,020,356, 2–6–62, Cl. 179—100.2.
Barry, Leonard D. Railway car end passages. 3,030,897, 4–24–62, Cl. 105—8.
Barry, Leonard D. Railway control system. 3,037,461, 6–5–62, Cl. 104—18.
Barry, Leonard D. Railway control system for coincident local and express service. 3,037,462, 6–5–62, Cl. 104—18.
Barry, Leonard D. Train to train and track to train control. 3,038,066, 6–5–62, Cl. 246—34.
Barry, Martin J., to The M. W. Kellogg Co. Method for handling acetylene. 3,069,247, 12–18–62, Cl. 48—190.
Barry, Miles E. Method and composition for cleaning tombstones. 3,063,875, 11–13–62, Cl. 134—28.
Barry, Richard H., to Schering Corp. Quaternary salts of bis-N,N-(4-benzyhydrylidene-1-alkyl-piperidine)-alkanes. 3,036,-080, 5–22–62, Cl. 260—293.
Barry-Wehmiller Machinery Co. : *See*—
Lyon, Donald G. 3,022,905.
Barry, William B., and P. T. Adams. Film splicer. 3,050,107, 8–21–62, Cl. 156—486.
Barry, William J. : *See*—
Sanders, Joseph J. 3,060,114.
Barry, William R., to J. W. Mecom, d.b.a. Cardwell Mfg. Co. Reciprocating pump. 3,049,082, 8–14–62, Cl. 103—216.

Barshied, Willis: *See*—
Koerner, Howard, Witzel, and Barshied. 3,052,552.
Barski, Julius J.: *See*—
Du Broff, Warren, Hageline, and Barski. 3,055,478.
Barski, Julius J.; to W. Du Broff. Case loading apparatus. 3,042,230, 7–3–62, Cl. 214—41.
Barsness, Norris K., L. P. Meyer, A. M. Johnson, and C. C. Thompson, to Glenwood Minnewaska Sales, Inc. Universal joint. 3,064,453, 11–20–62, Cl. 64—18.
Barsocchini, Frank A.: *See*—
Taykmr, Christopher G., and Barsocchini. 3,047,187.
Barss, Howard W., Jr., to Power Engineering Co. Prefabricated partition. 3,058,552, 10–16–62, Cl. 189—34.
Barstow, Frederick C., to Polaroid Corp. Photographic device for treating photographic sheet materials with a liquid. 3,068,774, 12–18–62, Cl. 95—89.
Bart, Abraham: *See*—
Burt, Robert V., Gex, and Bart. 3,041,806.
Gex, Virgil E., and Bart. 3,054,441.
Bart Enterprises, Inc.: *See*—
Bartolucci, Leo M., and Rohrer. 3,038,171.
Bartel, Gunter, to Lemforder Metallwarengesellschaft m.b.H., Firma. Scraper for cleaning the riser of a petroleum pump. 3,065,795, 11–27–62, Cl. 166—176.
Bartel, Kenneth A., and R. B. Crowley. Small boat propulsion unit. 3,039,421, 6–19–62, Cl. 115—21.
Bartell, David P., R. B. Fricioni, and M. A. McMahon, to Allegheny Ludlum Steel Corp. Method of determining fluoride ions. 3,027,240, 3–27–62, Cl. 23—230.
Bartels, August F. Bale turner. 3,022,902, 2–27–62, Cl. 214—1.
Bartels, Fred L.: *See*—
Hambrecht, Albert H., Bartels, Isenring, and Rowe. 3,017,698.
Bartels, Herbert D., to Continental Can Co., Inc. Beaded can method of vacuum packaging. 3,056,244, 10–2–62, Cl. 53—24.
Bartels, Hugo C.: *See*—
Haupt, Max, and Bartels. 3,053,509.
Bartels, Peter, to Ernst Leitz, G.m.b.H. Means for measuring the optical thickness and/or absorption of small specimens. 3,064,527, 11–20–62, Cl. 88—39.
Bartels, William G., and C. M. Gilliam. Remotely controlled antenna frequency determining system. 3,068,476, 12–11–62, Cl. 343—703.
Bartelt Engineering Co., Inc.: *See*—
Bartelt, Harold L. 3,019,884.
Dooley, Paul F. 3,067,826.
Matti, Leo F. 3,017,992.
Bartelt, Harold L., to Bartelt Engineering Co., Inc. Belt drive for check weigher. 3,019,884, 2–6–62, Cl. 198—39.
Barth, Anneliese: *See*—
Barth, Fritz. 3,026,785.
Barth, Bruce P., to Union Carbide Corp. Bonding compositions containing modified trimethylolphenol compounds. 3,046,103, 7–24–62, Cl. 51—298.
Barth, Elmer J. Clutch and transmission control system. 3,061,058, 10–30–62, Cl. 192—3.5.
Barth, Elmer J., and C. J. Gustafsson. Double countershaft multispeed transmission. 3,046,807, 7–31–62, Cl. 74—331.
Barth, Fritz, deceased, by A. Barth, widow and sole heir, to Alfred Gauthier G.m.b.H. Photographic intra-lens shutter. 3,026,785, 3–27–62, Cl. 95—64.
Barth, Harry J., to International Latex Corp. Deposited latex articles. 3,043,311, 7–10–62, Cl. 128—521.
Barth, Luther B. Napkin holding device. 3,058,258, 10–16–62, Cl. 55—68.3.
Barth, Victor C., and T. W. Timmis, to said V. C. Barth. Journal lubricating pad and process of making same. 3,019,069, 1–30–62, Cl. 308—243.
Barthel, Eric, Jr., R. W. Luckenbaugh, and J. A. Nelson, to E. I. du Pont de Nemours and Co. Pentachlorophenyl carbanilates. 3,024,269, 3–6–62, Cl. 260—471.
Barthel, William F., B. H. Alexander, and M. Beroza, to United States of America, Agriculture. Process for preparing mixed piperonyl acetals of acetaldehydes. 3,070,607, 12–25–62, Cl. 260—340.5.
Barthels, Wilhelm: *See*—
Pearson, Charles A., Gibson, and Barthels. 3,063,895.
Barthod, Edouard. Scouring apparatus. 3,023,485, 3–6–62, Cl. 29—81.
Bartholomäi, Johann, and A. Schlaud, to Telefunken G.m.b.H. Internal dielectric means for equalization of patterns due to perpendicular components of circularly polarized waves. 3,046,550, 7–24–62, Cl. 343—756.
Bartholomäus, Werner, E. Hessler, and R. Naumann, to Kamper-Motoren G.m.b.H. Hydraulic motor with friction brake. 3,043,412, 7–10–62, Cl. 192—3.
Bartholome, Ernst: *See*—
Steinhofer, Adolf, Bartholome, Frey, and Nonnemacher. 3,019,272.
Bartholomé Ernst, K.-H. Gruendler, and W. Teltschik, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Flameless reaction of sulfur-containing gaseous hydrocarbons to form carbon monoxide and hydrogen. 3,031,286, 4–24–62, Cl. 48—196.
Bartholomew, George A., to United States Steel Corp. Method and apparatus for coating metal strip and wire. 3,019,126, 1–30–62, Cl. 117—17.
Bartholomew, George A. Apparatus for resolving a mixture of liquids and solids. 3,035,704, 5–22–62, Cl. 210—369.
Bartholomew, George A., and T. Bartholomew, deceased (by S. A. Bartholomew, executrix). Method and apparatus for pelleting molten slag. 3,054,139, 9–18–62, Cl. 18—2.6.
Bartholomew, Sarah A.: *See*—
Bartholomew, George A. and T. 3,054,139.
Bartholomew, Tracy: *See*—
Bartholomew, George A. and T. 3,054,139.
Barti, Herbert, O. Bayer, and H. Scheurlen, to Farbenfabriken Bayer Aktiengesellschaft. Transesterification of copolymers olefins and organic vinyl esters with polyfunctional carboxylic acids or derivatives thereof and method of making same. 3,035,011, 5–15–62, Cl. 260—45.5.
Bartle, John: *See*—
Martin, Ernest N., Bartle, and Crowther. 3,031,267.
Bartlett, David L. Expandable house trailer. 3,070,399, 12–25–62, Cl. 296—26.
Bartlett, David S., Jr.: *See*—
Cilker, William H., and Bartlett. 3,068,133.
Bartlett, Jeffrey H.: *See*—
Morway, Arnold J., and Bartlett. 3,036,970.
Morway, Arnold J., Bartlett, and Muessig. 3,044,960.
Morway, Arnold J., Munday, Bartlett, and Muessig. 3,044,961.
Bartlett, Jeffrey H., I. Kirshenbaum, F. W. Banes, and C. W. Muessig, to Esso Research and Engineering Co. Plasticizers for vinyl-type resins. 3,023,185, 2–27–62, Cl. 260—31.6.
Bartlett, Jeffrey H., and V. L. Hughes, to Esso Research and Engineering Co. Esters of polymethyiol cyclohexane and vinyl resin composition containing same. 3,057,815, 10–9–62, Cl. 260—31.6.
Bartlett, Joseph E. Replacement stems for faucet assemblies. 3,062,257, 9–4–62, Cl. 137—315.
Bartlett, Percy H., to Bartlett Trailer Corp. Trailer elevator. 3,051,335, 8–28–62, Cl. 214—75.
Bartlett, Peter G.: *See*—
Kronlage, John W., and Bartlett. 3,069,633.
Bartlett, Philip L., to E. I. du Pont de Nemours and Co. Liquid hydrocarbon distillate fuels containing hydrocarbon-soluble betaines as antistatic agents. 3,027,246, 3–27–62, Cl. 44—66.
Bartlett, Richard T.: *See*—
Marion, Clyde E., Bartlett, and Clark. 3,043,386.
Bartlett, Robert P.: *See*—
Green, William D., Jr., and Bartlett. 3,048,270.
Bartlett Trailer Corp.: *See*—
Bartlett, Percy H. 3,051,335.
Bartlett, William F., and R. Scott, to General Dynamics Corp. Communication system energy transfer circuit. 3,041,401, 6–26–62, Cl. 179—15.
Bartlett, William F., and J. D. Ross, to General Dynamics Corp. Time division multiplex telephone switching system having single and multiple party pre-address and priority check circuitry. 3,066,192, 11–27–62, Cl. 179—18.
Bartley, Ronald C. Replaceable transom chine, etc. 3,035,-284, 5–22–62, Cl. 9—6.
Bartlo, John S.: *See*—
Markley, John F., Bartlo, Brigham, and Campbell. 3,055,154.
Bartlow, Jack R., to Gray Marine Motor Co. Water cooled exhaust elbow. 3,050,934, 8–28–62, Cl. 60—30.
Bartman, William H.: *See*—
Turner, James F., Bartman, and Smith. 3,057,309.
Barto, Robert M., Jr., to Combustion Engineering, Inc. Anodic decontamination of zirconium and hafnium. 3,063,-912, 11–13–62, Cl. 204—32.
Bartok, William, and C. E. Heath, to Esso Research and Engineering Co. Process for partial oxidation of ethane to produce formaldehyde. 3,061,646, 10–30–62, Cl. 260—604.
Bartolomei, George G., to Associated Nucleonics, Inc. Case for nuclear light source material. 3,037,067, 5–29–62, Cl. 136—89.
Bartolomeo, Frank T. Smoking articles. 3,043,314, 7–10–62, Cl. 131—9.
Bartolucci, Leo M., and J. A. Rohrer, to Bart Enterprises, Inc. Pool cover securing means. 3,038,171, 6–12–62, Cl. 4—172.
Barton, Alfred M.: *See*—
Graver, Kenneth M., Adamek, and Barton. 3,046,142.
Barton, Arthur F., 40% to J. C. Boston. Lineman's climbers. 3,032,141, 5–1–62, Cl. 182—221.
Barton, Bernard C.: *See*—
Haxo, Henry E., Barton, and Schaffner. 3,018,812.
Barton, Daniel M., and E. W. Schoeffel, to Sterling Drug Inc. Method of removing acidic organic constituents from gases. 3,054,653, 9–18–62, Cl. 23—2.
Barton, David W., and J. R. Elwell, to Ford Motor Co. Power steering system. 3,061,056, 10–30–62, Cl. 180—79.2.
Barton, Derek H. R., and C. H. Robinson, to Schering Corp. Novel 5,9-cyclosteroids and methods for their manufacture. 3,026,337, 3–20–62, Cl. 260—397.45.
Barton, Derek H. R., and G. Quinkert, to Polaroid Corp. Irradiation of cyclohexadienones. 3,032,491, 5–1–62, Cl. 204—158.
Barton, Derek H. R., B. C. L. Weedon, and J. B. Davis, to Roche Products Ltd. Process for preparation of carotenoidal substances. 3,053,886, 9–11–62, Cl. 260—488.
Barton, Derek H. R., J. Elks, and E. J. Bailey, to Glaxo Laboratories Ltd. Method for introducing an oxygen function into a steroid molecule containing an enol group and compounds thereof. 3,056,809, 10–2–62, Cl. 260—397.4.

Barton, Edward D., and D. W. Laviana, to General Motors Corp. Timed control mechanism. 3,065,314, 11–20–62, Cl. 200—38.

Barton, Francis M., to Foster Wheeler Corp. Apparatus for and method of introducing tertiary air into furnaces. 3,039,444, 6–19–62, Cl. 122—235.

Barton, Frantisek, to Sdruzini podniku textilniko strojivenavi. Two by two rib knit fabric. 3,046,768, 7–31–62, Cl. 66—172.

Barton, George C., to United Shoe Machinery Corp. Plastic injection sole molding machines. 3,055,056, 9–25–62, Cl. 18—30.

Barton, James F., Jr., and E. W. Bickel, Jr., to General Motors Corp. Waste receptacle assembly. 3,022,883, 2–27–62, Cl. 206—19.5.

Barton, James L. Wheel chairs. 3,023,048, 2–27–62, Cl. 297—330.

Barton, John S.: *See*—
Herschler, Robert J., Barton, and Works. 3,058,843.

Barton, Leon M., and E. C. Nordell, to General Electric Co. Synchronization network. 3,020,482, 2–6–62, Cl. 328—55.

Barton, Martin L., and J. M. Shapiro, to Manson Laboratories, Inc. Ultra stable frequency shift key system. 3,031,527, 4–24–62, Cl. 178—66.

Barton, Peter. Apparatus for storing and handling materials. 3,053,403, 9–11–62, Cl. 214—16.4.

Barton, Ralph D., to Whirlpool Corp. Refrigerating apparatus. 3,045,451, 7–24–62, Cl. 62—407.

Barton, Raymond W., to Baxter Laboratories, Inc. Method of preparing a solution. 3,033,203, 5–8–62, Cl. 128—272.

Barton, Raymond W., to Baxter Laboratories, Inc. Pumping apparatus. 3,059,643, 10–23–62, Cl. 128—272.

Barton, Richard R., to Miles Laboratories, Inc. Process for flavor enhancement for leguminous foods. 3,048,492, 8–7–62, Cl. 99—140.

Barton, Suzanne P., B. Ellis, and V. Petrow, to The British Drug Houses Ltd. 6-methyl steroids and method for preparation of same. 3,070,613, 12–25–62, Cl. 260—397.4.

Bartos, John, L. P. Borkoskoi, F. C. Doughman, J. T. Ferraris, and J. J. Moughty, to Electrolux Corp. Floor treating devices. 3,047,897, 8–7–62, Cl. 15—114.

Barth, Stefan J., and J. C. Pawlak, to United States of America, Army. Organic primary cells. 3,025,336, 3–13–62, Cl. 136—100.

Bartow, Walter T., and W. M. Drobish, to Western Electric Co., Inc. Method and apparatus for pressing moldable material. 3,038,199, 6–12–62, Cl. 18—5.

Bartram, Mervyn: *See*—
Dickinson, Ronald S., and Bartram. 3,054,260.

Bartschi, Paul. Apparatus for removing, as required, tear-off pieces, particularly postage stamps. 3,036,751, 5–29–62, Cl. 225—34.

Bartson, Lester J., and G. M. McAnulty, to Ford Motor Co. Nodular iron manufacture. 3,017,267, 1–16–62, Cl. 75—130.

Bartz, Kenneth W.: *See*—
Walling, Cheves T., Brown, and Bartz. 3,027,352.

Bartz, Quentin R., J. Ehrlich, M. P. Knudsen, and R. M. Smith, to Parke, Davis & Co. Viridogrisein, and its fermentative production with griseoviridin. 3,023,204, 2–27–62. Cl. 260—112.

Bartz, William P.: *See*—
Fotsch, Arthur H., Bartz, and Schalk. 3,029,710.

Baruch, Jordan J., and B. G. Watters, to Bolt Beranex and Newman, Inc. Apparatus for and method of soundproof closure sealing. 3,059,287, 10–23–62, Cl. 20—16.

Baruchello, Gianfranco, to Bromedica Int. Process for the preparation of hexose alkal metal salts of hexose diphosphate from insoluble salts thereof. 3,066,135, 11–27–62, Cl. 260—234.

Barusch, Maurice R., to California Research Corp. Operation of spark-ignition engines. 3,050,043, 8–21–62. Cl. 123—1.

Barusch, Maurice R., to California Research Corp. Starting fluid for internal combustion engines. 3,065,064, 11–20–62. Cl. 44—53.

Barut, Victor J. Cellular structure and method of manufacture. 3,018,205, 1–23–62, Cl. 154—45.

Barwell, John H., and D. J. Lanham, to Barwell Rubber Co. Ltd. Apparatus for use in conjunction with an extruder. 3,048,344, 8–7–62, Cl. 242—55.

Barwell Rubber Co. Ltd.: *See*—
Barwell, John H., and Lanham. 3,048,344.

Bary, Woldemar A. Aircraft with slow speed landing and take-off. 3,054,579, 9–18–62, Cl. 244—42.

Basalt Rock Co., Inc.: *See*—
McCall, Donald O. 3,022,759.

Basch, Reinhold E., to Peerless Photo Products, Inc. Photographic positive printing system. 3,048,486, 8–7–62, Cl. 96—29.

Basche, Malcolm, M. F. Comerford, N. E. Doyle, Jr., and J. S. Hetherington, to Alloyd Electronics Corp. Electron beam heating devices. 3,020,387, 2–6–62, Cl. 219—50.

Baschkin, Bernard B., to Burndy Corp. Intermediate panel connector. 3,054,078, 9–11–62, Cl. 339—18.

Bascom, David F. Sports device. 3,065,563, 11–27–62, Cl. 43—19.

Basebe, Arthur C., to H. Sinclair. Hydraulic turbo couplings. 3,029,604, 4–17–62. Cl. 60—54.

Baseil, Anthony J.: *See*—
Fisher, Michael, and Baseil. 3,068,318.

Båsen, Toralv: *See*—
Collin, Fredrik C., and Båsen. 3,033,673.

Basevi, Sidney P.: *See*—
Worlidge, Ronald F., and Basevi. 3,043,341.

Basey, Donald L., and T. V. Gandee. Water sport riding device. 3,042,944, 7–10–62, Cl. 9—310.

Basford, James W., to The Plastex Co. Apparatus for applying tension to extrusions. 3,065,893, 11–27–62, Cl. 226—172.

Basford, Kenneth A.: *See*—
Haworth, Lionel, Basford, Smith, and Bottoms. 3,067,628.

Basford, Kenneth A., and H. S. Bottoms, to Rolls-Royce Ltd., and Joseph Lucas (Industries) Ltd. Fuel systems for propeller-driving gas turbine engines. 3,056,454, 10–2–62, Cl. 170—135.74.

Bash, J. Earle G. Amusement device for viewing animated pictures with sound accompaniment. 3,022,705, 2–27–62, Cl. 88—16.2.

Basharrah, William J., to Burroughs Corp. Transistor controlled gaseous indicator. 3,019,370, 1–30–62, Cl. 315—206.

Bashaw, George F. Methods of producing a ribbed strip. 3,035,342, 5–22–62, Cl. 29—556.

Bashor, Nelson P., and W. Raap, to W. F. Barnes and John Co. Heavy duty electrical switching means. 3,045,130, 7–17–62, Cl. 307—115.

Bashore, Leon M., to United States Rubber Co. Life vest. 3,042,947, 7–10–62, Cl. 9—338.

Bashour, Joseph T.: *See*—
Davis, Robert G., Haimsohn, and Bashour. 3,025,138.

Basiago, Raymond, and N. T. Williams, to McGraw-Edison Co. Hall plate. 3,046,458, 7–24–62, Cl. 317—234.

Basic Inc.: *See*—
Morton, Eugene A., and Brant. 3,044,139.
Rusoff, Samuel, and Drabkowski. 3,015,850.

Basic Products Corp.: *See*—
Brackett, George E. 3,034,677.
Brackett, George E. 3,036,244.
Brackett, George E. 3,046,514.
Hauck, Aloysius J. 3,061,828.
Langdon, William M. 3,040,974.
Langdon, William M. 3,040,975.
Selin, Karl L. 3,027,889.
Sola, Joseph G. 3,059,143.

Basic Research Corp.: *See*—
Drummond, Folsom E. 3,070,604.
Drummond, Folsom E. 3,070,618.
Toulmin, Harry A., Jr. Re. 25,242.
Toulmin, Harry A., Jr. 3,062,180.
Toulmin, Harry A., Jr. 3,070,512.
Toulmin, Harry A., Jr. 3,070,513.

Basic Research, Inc.: *See*—
Crosby, Melvin A. 3,069,902.
Toulmin, Harry A., Jr. 3,070,173.
Toulmin, Harry A., Jr. 3,070,174.

Basic Vegetable Products, Inc.: *See*—
Van Gelder, Arthur. 3,063,848.

Basile, Gene E., and E. T. Gillman, to Putnam Rolling Ladder Co. Inc. Stepladders. 3,042,140, 7–3–62, Cl. 182—46.

Basim, Donald S., R. A. Flower, and M. W. McKay, to General Precision Inc. Doppler system land-water detector. 3,023,407, 2–27–62, Cl. 343—5.

Basinger Joseph W. Door stop. 3,025,559, 3–20–62, Cl. 16—85.

Basinski, Ben J. Fish hook extractor. 3,034,252, 5–15–62, Cl. 43—53.5.

Baskin, Aaron D.: *See*—
Darby, Richard T., Baskin, and Lilly. 3,015,226.

Baskin, Herbert B., to International Business Machines Corp. Multiplier circuit. 3,052,412, 9–4–62, Cl. 235—164.

Baskin, Paul, to Sylvania Electric Products, Inc. Electron discharge device processing apparatus. 3,069,787, 12–25–62, Cl. 34—236.

Basler Electric Co.: *See*—
Morgan, Julius S., and Lee. 3,045,126.

Baso Inc.: *See*—
Kile, Stephen L., and O'Quinn. 3,048,216.

Bason, William A. Shape restoring apparatus. 3,063,490, 11–13–62, Cl. 153—81.

Bass, Edmund P., to Affiliated Laboratories Corp. Process of producing infectious bovine rhinotracheitis vaccine and product thereof. 3,048,524, 8–7–62, Cl. 167—78.

Bass, Harold E. and R. F. White, to General Dynamics Corp. Valve. 3,050,082, 8–21–62, Cl. 137—625.11.

Bass, Helen L., 50% to G. W. Prince. Article holder. 3,024,824, 3–13–62, Cl. 150—52.

Bass, Ira C. Lock installing tool. 3,048,062, 8–7–62, Cl. 77—62.

Bass, Miles M., R. M. Bell, L. C. Hammond, and P. J. Robichaung, to Hammond Machinery Builders, Inc. Guard for grinding wheel. 3,029,563, 4–17–62, Cl. 51—5.

Bassan, Maurice M.: *See*—
Richardson, William C. 3,062,545.

Bassani, Ermanno, to Societa per Azioni Bassani. Safety and protection device for electric switches and the like, particularly for middle voltage equipments. 3,016,432, 1–9–62, Cl. 200—50.

Bassani, Ermanno, to Societa per Azioni Bassani. Locking and safety device for electric switches. 3,018,341, 1–23–62, Cl. 200—50.

Bassani, Societa per Azioni: *See*—
Bassani, Ermanno. 3,016,432.
Bassani, Ermanno. 3,018,341.

Bassett, Charles H., to United States of America, Atomic Energy Commission, Nuclear reactor fuel element. 3,022,240, 2–20–62, Cl 204—193.2.
Bassett, Cleveland G. Playground structure. 3,022,036, 2–20–62, Cl. 248—402.
Bassett, Ernest D. Collating machine. 3,035,832, 5–22–62, Cl. 270—58.
Bassett, Joseph L. Segmented gameboard. 3,057,624, 10–9–62, Cl. 273—136.
Bassett, Robert S., to American Meter Co., Inc. Water meter. 3,039,311, 6–19–62, Cl. 73—258.
Bassett, Ronald M., to International Register Co. Clock operated electric switch. 3,036,228, 5–22–62, Cl. 307—114.
Bassett, W. E., Co., The: *See—*
Pocoski, Edward J. 3,031,753.
Pocoski, Edward J. 3,031,754.
Bassett, Wilbur E., and R. A. Carbone, to Western Electric Co., Inc. Soldering machine. 3,056,372, 10–2–62, Cl. 113—126.
Bassick Co., The: *See—*
Clinton, Edwin T., and Kramcsak. 3,066,764.
Ericson, Sidney A., and Parrott. 3,046,054.
Fontana, Frank J., and Kramcsak. 3,065,494.
Heiferon, Edward J., and Kramcsak. 3,065,495.
Kramcsak, Michael, Jr. 3,021,551.
Kramcsak, Michael, Jr., and Fontana. 3,024,870.
Tho, Deh C. 3,045,390.
Basso, Arthur J.: *See—*
Hinmann, Ralph F., and Basso. 3,065,255.
Basso, John E.: *See—*
Christensen, Warren C., and Basso. 3,040,527.
Bassoff, Arthur B.: *See—*
Bregi, Benjamin F., and Bassoff. 3,059,544.
Pernack, Frank, and Bassoff. 3,067,733.
Bassoff, Arthur B., to National Broach & Machine Co. Tool trimmer. 3,017,876, 1–23–62, Cl. 125—11.
Bastiaanse, Abraham G. Marine propulsion system and engine. 3,049,089, 8–14–62, Cl. 115—14.
Bastian-Blessing Co., The: *See—*
Billington, Evans R. 3,025,272.
Billington, Evans R. 3,054,529.
Johnson, Herman K. 3,069,871.
St. Clair, Theodore A. 3,033,220.
Bastin, Edgar J.: *See—*
Graves, Edward B., and Bastin. 3,018,375.
Basto, Julio H., M. M. Capp, C. R. Davison, and G. H. Garbaden, to Benjamin Moore & Co. Intrimescing, water resistant fire retardant compositions comprising at least one water-insoluble metal metaphosphate, a polypentaerythritol and a water insoluble amino plast resin. 3,037,951, 6–5–62, Cl. 260—22.
Bastone, Andrew L., to Owens-Corning Fiberglas Corp. Method for admixing reinforcing materials and viscous liquid materials. 3,029,475, 4–17–62, Cl. 18—58.3.
Bastow, Donald, and L. G. Freeman, to Birfield Engineering Ltd. Flexible couplings. 3,062,025, 11–6–62, Cl. 64—13.
Bata Shoe Co. Inc.: *See—*
Tusa, John, and Hollington. 3,064,288.
Bataille, Roger J. Transistorized ignition system. 3,016,476, 1–9–62, Cl. 315—135.
Batchelder, Charles F., and J. A. Rubico, to Batchelder Rubico, Inc. Quarter-gauging last and process. 3,027,578, 4–3–62, Cl. 12—136.
Batchelder, Charles F., and J A. Rubico, to Batchelder Rubico, Inc. Last cap for counter-gauging last. 3,027,579, 4–3–62, Cl. 12—136.
Batchelder, George W., and G. A. Zimmerman, to Aerojet General Corp. Composite polyester propellant containing a silicon compound as burning rate catalyst. 3,058,858, 10–16–62, Cl. 149—19.
Batchelder, James W., to Textron Inc. Feeder track and clearing wheel. 3,047,118, 7–31–62, Cl. 193—43.
Batchelder, John M. Computer. 3,067,932, 12–11–62, Cl. 235—61.5.
Batchelder Rubico, Inc.: *See—*
Batchelder, Charles F., and Rubico. 3,027,578.
Batchelder, Charles F., and Rubico. 3,027,579.
Rubico, Jerome A. 3,064,597.
Rubico, Jerome A. 3,064,598.
Batcheller, Hugh W. Adjustable crimping press for various diameters of wires and insulation. 3,051,213, 8–28–62, Cl. 153—1.
Batcheller, Hugh W. Wire gripping elements and method of making and crimping same. 3,051,773, 8–28–62, Cl. 174—94.
Batcheller, Kent J., and D. R. McDougall, to Kent Mfg. Corp. Detent for crimping machine. 3,041,619, 7–3–62, Cl. 1—77.
Batchelor, Clyde S., and W. R. Jensen, to Raybestos-Manhattan, Inc. Friction devices. 3,062,348, 11–6–62, Cl. 192—113.
Batchelor, James D., R. J. Friedrich, and P. M. Yavorsky, to Consolidation Coal Co. Method for preparing coked briquets from caking coals. 3,018,226, 1–23–62, Cl. 202—26.
Batchelor, Percy G.: *See—*
Marchant, Francis C. I., Batchelor, and Jagaard. 3,056,258.
Batchelor, Robert L. Lubrication system and method for chain conveyor. 3,051,264, 8–28–62, Cl. 184—15.
Batdorf, John Q., to The Ford Motor Co. Slip joint seal. 3,016,722, 1–16–62, Cl. 64—23.
Bateman, Edward L.: *See—*
Mare, Ernest, and Bateman. 3,036,417.
Bateman, Frank F., to Jefferson Standard Broadcasting Co. Method and means of detecting relative displacement of the periodic location of indicia on a moving tape or similar article. 3,066,198, 11–27–62, Cl. 179—100.2.
Bateman, William H. Means for forming the teeth of gear wheels and the like. 3,032,933, 5–8–62, Cl. 51—95.
Bateman, William H. Work-piece clamping means. 3,052,461, 9–4–62, Cl. 269—43.
Bates, Arthur D.: *See—*
Salvatori, Henry, and Bates. 3,024,079.
Bates, Arthur L. and J. H. Anderer, to American Viscose Corp. Method for producing crimped rayon staple fiber. 3,046,083, 7–24–62, Cl. 18—54.
Bates, Charles E.: *See—*
Elliott, Harold V., Bates, and Johnson. 3,030,459.
Bates, Charles E., to General Motors Corp. Control device. 3,017,546, 1–16–62, Cl. 317—190.
Bates, Donald A.: *See—*
Bates, Norma J. and D. A. 3,040,641.
Bates, George W., and R. F. Clark, to American Telephone and Telegraph Co. Method of and apparatus for identifying discrete tip and ring conductor pairs in telephone cable. 3,054,949, 9–18–62, Cl. 324—66.
Bates, Grayson F., and L. W. De Simone, to Sylvania Electric Products Inc. Circuit element mounting. 3,017,549, 1–16–62, Cl. 317—234.
Bates, Harold: *See—*
Grady, Dennis, Bates, and Fisher. 3,031,254.
Bates, Harold, F. Hindley, and W. Popiolek, to British Celanese Ltd. Manufacture of cellulose esters. 3,040,027, 6–19–62, Cl. 260—227.
Bates, John S., 70% to K. S. Bates, 15% to R. B. Bates, and 15% to M. E. B. Trotter, by decree of distribution. Pipe sealing gasket. 3,015,510, 1–2–62, Cl. 288—23.
Bates, Kenton S.: *See—*
Bates, John S. 3,015,510.
Bates, Norma J. and D. A. Photographic flash regulator. 3,040,641, 6–26–62, Cl. 95—11.5.
Bates, Robert B.: *See—*
Bates, John S. 3,015,510.
Bates, Roland H.: *See—*
Hall, Edward O., and Bates. 3,058,349.
Bates, Stanley L.: *See—*
Eichhorn, Jacob, and Bates. 3,058,928.
Batesville Casket Co., Inc.: *See—*
Hillenbrand, Daniel A., and Dieckmann. 3,019,920.
Batezell, Alfred P., and R. McCullogh, to United States of America, Army. Apparatus for cutting an arcuate venturi for recoilless rifles. 3,015,994, 1–9–62, Cl. 90—15.
Bath, Cyril, Co., The: *See—*
Bath, Cyril J. 3,052,119.
De Marco, Robert F. 3,016,882.
De Marco, Robert F. 3,025,904.
Perkins, George H., and De Marco. 3,052,118.
Bath, Cyril J., to The Cyril Bath Co. Elongated load cell and combination thereof with stretch forming machine. 3,052,119, 9–4–62, Cl. 73—141.
Bath Iron Works Corp.: *See—*
Burbank, Benjamin B. 3,035,782.
Bathey Mfg. Co.: *See—*
Beeler, Glen R. 3,055,462.
Batho, William F., to Enterprise Railway Equipment Co. Hopper outlet construction. 3,070,040, 12–25–62, Cl. 105—282.
Bathurst, William N.: *See—*
Evans, Godfrey A., and Bathurst. 3,033,321.
Batignolles-Chatillon (Mecanique Generale): *See—*
Oudry, Paul J. F. 3,044,320.
Batina, Jerome R., and K. E. Grosse, to W. M. Welch Mfg. Co. Amplification and rectification means for use in a photographic exposure timer. 3,028,561, 4–3–62, Cl. 329—192.
Batley, George C., to Ford Motor Co. Window regulator. 3,028,157, 4–3–62, Cl. 268—129.
Batley, George C., to Ford Motor Co. Windshield wiper mechanism. 3,042,953, 7–10–62, Cl. 15—250.2.
Batley, Harry A.: *See—*
Richter, Richard C., and Batley. 3,067,243.
Batley, James V., to International Business Machines Corp. Counter checking circuit. 3,046,523, 7–24–62, Cl. 340—146.1.
Bator, Andrew F. Loading boom. 3,028,697, 4–10–62, Cl. 37—143.
Batori, George J. Traction device for vehicles. 3,028,901, 4–10–62, Cl. 152—239.
Batres, Enrique: *See—*
Ringold, Howard J., Zderic, Batres, and Rosenkranz. 3,017,419.
Batres, Enrique, and H. J. Ringold, to Syntex Corp. 4,4-dialkyl and 4,4-diaralkyl-17α-alkenyl-17β-hydroxy-androstanes. 3,067,216, 12–4–62, Cl. 260—397.4.
Batori, Oscar E. Computer. 3,034,709, 5–15–62, Cl. 235—61.
Batson-Cook Co.: *See—*
Gaskins, Jack C. 3,044,141.
Batt, Irving P. Cellulosic band structure. 3,039,905, 6–19–62, Cl. 154—46.
Battaglia, Angelo F. Scintillating sign. 3,043,039, 7–10–62, Cl. 40—138.
Batteau, Dwight W., to Flow Corp. Thermal element for measuring true RMS of random signals. 3,026,363, 3–20–62, Cl. 136—4.

Battegay, Jean, and P. Treadwell, to Hoffmann-La Roche Inc. Preparation of Grignard reagents. 3,064,060, 11–13–62, Cl. 260—665.

Battelle Development Corp., The: *See*—
Jaffee, Robert I. 3,044,160.
Lewis, Wallace J., and Faulkner. 3,023,133.
McCrory, Rollin J., Carey, and McNinch. 3,069,913.
McCrory, Rollin J., and King. 3,044,452.
McCrory, Rollin J., King, and Conklin. 3,042,010.
Sorgenti, Harold A., Nack, and Sachsel. 3,035,918.

Battelle Memorial Institute: *See*—
Lawton, Emil A., Allen, and Cosgrove. 3,023,164.
Porter, Frederic B., McAlpine, and Kaerwer. 3,054,219.
Stephens, Frank M., Jr., Coffer, and Langston. 3,053,648.
Wesner, Adam L. 3,032,188.

Batten, Dallas L.: *See*—
Friedl, Wolfgang R. 3,035,650.

Batten, Ronald W., to Hi-Shear Corp. Fastener installing tool. 3,047,182, 7–31–62, Cl. 218—43.

Battenfeld Maschinenfabrik, Gebruder: *See*—
Langecker, Erhard. 3,039,145.

Batterman, Theodore W., and M. Pobog, to Electric Eye Equipment Co. High speed automatic diaphragm mechanism and control. 3,046,864, 7–31–62, Cl. 95—75.

Battersby, Alan R., to Whiffen and Sons Ltd. New chemical compounds useful in the synthesis of emetine. 3,045,020, 7–17–62, Cl. 260—287.

Battin, John W., to Motorola, Inc. Transistor protecting circuit. 3,061,785, 10–30–62, Cl. 325—362.

Battison, Alvin H., and C. B. Smith, to International Business Machines Corp. Magnetic storage drum. 3,028,584, 4–3–62, Cl. 340—174.1.

Battison, Alvin H., J. M. Hix, C. B. Smith, and V. O. Wilkerson, to International Business Machines Corp. Perforated record reader. 3,055,582, 9–25–62, Cl. 235—61.11.

Battista, Orlando A.: *See*—
Herald, Carl T., McGinley, and Battista. 3,067,037.

Battista, Orlando A., to American Viscose Corp. Food compositions incorporating cellulose crystallite aggregates. 3,023,104, 2–27–62, Cl. 99—1.

Battista, Orlando A., to American Viscose Corp. Cellulosic fibers and fibrous articles and method of making same. 3,052,593, 9–4–62, Cl. 162—146.

Battle Creek Manufacturers, Inc.: *See*—
Schaeffer, Bernarr C. 3,047,293.

Battle Creek Packaging Machines, Inc.: *See*—
Littlefield, Carl, and Smith. 3,069,826.

Battle, Joel A., Jr.: *See*—
Harlan, Don L., Battle, and Allen. 3,019,838.

Battle, Norman: *See*—
Wigg, Raymond E., and Battle. 3,051,497.

Batts, Harvey J., to United States Rubber Co. White sidewall for a pneumatic tire. 3,032,519, 5–1–62, Cl. 260—23.7.

Batts, John H., to John Thomas Batts, Inc. Shoulder supporting coat hanger. 3,029,005, 4–10–62, Cl. 223—92.

Batts, John H., to John Thomas Batts Inc. Coat hanger. 3,059,823, 10–23–62, Cl. 223—88.

Batts, John Thomas, Inc.: *See*—
Batts, John H. 3,029,005.
Batts, John H. 3,059,823.

Batty, Harry A., A. J. Eisler, and J. W. Ellington, to James Lees and Sons Co. Weft detector mechanism. 3,049,152, 8–14–62, Cl. 139—370.

Batyr, Jules R. Mobile shipping and storage unit. 3,025,075, 3–15–62, Cl. 280—79.2.

Batzer, David: *See*—
Spraul, Joseph R. and Batzer. 3,047,477.

Batzer, David, and J. R. Spraul, to General American Transportation Corp. Field storage tanks. 3,054,523, 9–18–62, Cl. 220—10.

Batzer, Hans, and E. Nikles, to Ciba Ltd. Epoxidized hydroaromatic compounds. 3,023,174, 2–27–62, Cl. 260—2.

Batzer, Hans, W. Fisch, and D. Porret, to Ciba Ltd. Epoxy derivatives of triacrylyl perhydro triazine. 3,028,385, 4–3–62, Cl. 260—248.

Batzer, Othmer F.: *See*—
Landmann, Wendell A., and Batzer. 3,047,399.

Batzer, Thomas H., to United States of America, Atomic Energy Commission. Renewable liquid gettering pump. 3,050,236, 8–21–62, Cl. 230—69.

Batzer, Thomas H., J. F. Ryan, and D. B. Cummings, to United States of America, Atomic Energy Commission. Fast acting current switch. 3,036,172, 5–22–62, Cl. 200—82.

Baubles, Richard C., to Elastic Stop Nut Corp. of America. Screw threading tool. 3,069,941, 12–25–62, Cl. 80—6.

Baubles, Richard C., to Elastic Stop Nut Corp. of America. Screw threaded member. 3,069,960, 12–25–62, Cl. 85—1.

Baubles, Richard C., to Elastic Stop Nut Corp. of America. Screw threaded member. 3,069,961, 12–25–62, Cl. 85—1.

Baude, John, to Allis-Chalmers Mfg. Co. Gate having voltage divider shunting series emitter-collector paths and individual base-bias level setting means equalizing transistor leakage currents. 3,056,043, 9–25–62, Cl. 307—88.5.

Baude, John, to Allis-Chalmers Mfg. Co. Cascaded-transistor switch having diode thermal-runaway protection and switching surge elimination means. 3,067,338, 12–4–62, Cl. 307—88.5.

Bauder, Josef, J. Fischer, and M. Aidn, to Siemens & Halske Aktiengesellschaft. Drive for matrix width indicator for composing machine perforators. 3,043,500, 7–10–62, Cl. 234—4.

Bauder, Josef, O. Steiner, W. Herrmann, and H. Jahn, to Siemens & Halske Aktiengesellschaft. Page-printing machines. 3,024,308, 3–6–62, Cl. 178—25.

Bauder, Ulrich, to Firma Fr. Hesser Maschinenfabrik-Aktiengesellschaft. Machine for forming lined containers. 3,018,702, 1–30–62, Cl. 93—44.1.

Baudhuin, Francis J.: *See*—
Heiss, Frederick H., Rolin, and Baudhuin. 3,066,830.

Baudhuin, Francis J., F. H. Heiss, G. W. Jensen, and C. H. Hager, to Valspar Corp. Dispensing apparatus. 3,029,847, 4–17–62, Cl. 141—104.

Baudhuin, George J., to Drott Mfg. Corp. Self-propelled mobile lift. Re. 25,145, 3–27–62, Cl. 214—396.

Baudhuin, George J., to Drott Mfg. Corp. Mobile lift. 3,059,782, 10–23–62, Cl. 212—13.

Baudhuin, George J., and A. C. Petersen, to Drott Mfg. Corp. Fluid steering system for vehicles. Re. 25,280, 11–06–62, Cl. 180—79.2.

Baudhuin, George J., and A. C. Petersen, to Travelift & Engineering, Inc. Fluid steering system for vehicles. 3,028,925, 4–10–62, Cl. 180—79.2.

Baudin, Jean A.: *See*—
De Faymoreau, Etienne C. L., and Baudin. 3,051,948.

Baudin, Jean A., to International Telephone and Telegraph Corp. Channel selector servo circuit. 3,051,881, 8–28–62, Cl. 318—29.

Baudin, Jean A., to International Telephone and Telegraph Corp. Pulse modulator circuit for generating paired pulses. 3,053,999, 9–11–62, Cl. 307—88.5.

Baudou, Antoine J. G. Manufacture of footwear articles. 3,031,723, 5–1–62, Cl. 18—59.

Baudry, Rene A., and E. C. Whitney, to Westinghouse Electric Corp. Thrust bearing assembly. 3,018,144, 1–23–62, Cl. 308—160.

Bauer, Adrian P., to Empire Stove Co. Furnace. 3,064,638, 11–20–62, Cl. 126—110.

Bauer, Alfred. Method of pressing by rolling by means of an embossed wheel and pressing machine for carrying out the said method. 3,019,723, 2–6–62, Cl. 101—5.

Bauer, Alfred P. Method of bonding a bi-metallic casting. 3,069,209, 12–18–62, Cl. 309—3.

Bauer, Anton: *See*—
Hasselbach, Wolfgang, Bauer, and Scherer. 3,027,164.

Bauer, Benjamin B.: *See*—
Gabor, Dennis, and Bauer. 3,052,567.

Bauer, Benjamin B., to Shure Brothers, Inc. Magnetic phonograph pickup. 3,055,988, 9–25–62, Cl. 179—100.41.

Bauer, Benjamin B., to Minnesota Mining & Mfg. Co. Tape magazine. 3,066,880, 12–4–62, Cl. 242—55.13.

Bauer, Benjamin B., and H. Sherman, to Minnesota Mining & Mfg. Co. Tape recording-playback head. 3,019,303, 1–30–62, Cl. 179—100.2.

Bauer Bros. Co., The: *See*—
Borden, Donald A. 3,040,997.
Eberhardt, Lee E. 3,055,795.
Eberhardt, Lee E. 3,064,592.
Ginaven, Marvin E. 3,040,996.
Ginaven, Marvin E. 3,055,291.
Ginaven, Marvin E. 3,055,598.
Ginaven, Marvin E. 3,064,557.
Horstman, Anton J., and Eberhardt. 3,016,088.
Kemp, Edwin V. Jordan, and Botkin. 3,070,005.
Linkinhoker, Chester L. 3,040,892.
Starrett, James R. 3,070,156.
Steiniger, Herman W. 3,040,995.
Textor, Clinton K. 3,016,324.
Textor, Clinton K. 3,023,140.
Woodruff, Maurice D. 3,019,901.

Bauer, Clifford D.: *See*—
Wingerd, Winston H., Bauer, and Damisch. 3,036,918.

Bauer, Dieter: *See*—
Pauli, Otto, and Bauer. 3,064,019.

Bauer, Ernest A., to The Marquardt Corp. Pressure ration computer. 3,046,790, 7–31–62, Cl. 73—407.

Bauer, Ernest A., and P. R. Dahl, to The Marquardt Corp. Buzz detector. 3,029,633, 4–17–62, Cl. 73—116.

Bauer, Ernest A., and R. T. Dungan, to The Marquardt Corp. Air fuel ratio control for a gaseous fuel burning ramjet. 3,030,767, 4–24–62, Cl. 60—35.6.

Bauer, Ernest K., to American Viscose Corp. Apparatus for producing artificial filaments. 3,039,141, 6–19–62, Cl. 18—8.

Bauer, Eugen, G.m.b.H.: *See*—
Reinsch, Herbert. 3,045,158.
Schleifer, Josef. 3,062,463.
Schleifer, Josef, Fleck, Droppa, and Muller. 3,030,545.
Schnell, Albert, Reinsch, and Lieser. 3,043,186.
Straub, Albert. 3,064,521.

Bauer, Friedrich L., and K. Samelson. Automatic computing machine and method of operation. 3,047,228, 7–31–62, Cl. 235—157.

Bauer, Fritz: *See*—
Kracker, Herbert, Bauer, and Kirst. 3,037,974.
Ruschig, Heinrich, Schorr, Fussganger, Bauer, and Nesemann. 3,057,881.
Schorr, Manfred, Fussganger, Nesemann, and Bauer. 3,054,822.

Bauer, Fritz, and C. Schörner, to Maschinenfabrik Augsburg-Nurnberg A.G. Gas turbine. 3,043,559, 7–10–62, Cl. 253—39.

Bauer, Hans: *See*—
Heckmaier, Joseph, and Bauer. 3,033,839.

Bauer, Hans, E. Bergmeister, and J. Heckmaier, to Wacker-Chemie G.m.b.H. Process for the production of stable aqueous dispersions of polymerized vinylesters. 3,051,668, 8–28–62, Cl. 260—17.

Bauer, Hans, and H. Holzer, to Sud West Chemie G.m.b.H. Welding fitting. 3,062,940, 11–6–62, Cl. 219—19.

Bauer, Heinrich, to Vereinigte Leichtmetall-Werke, Gesellschaft mit beschrankter Haftung. Process for making metal plates provided with drillings. 3,044,164, 7–17–62, Cl. 29—528.

Bauer, Herbert, and A. B. Cohen, to E. I. du Pont de Nemours and Co. Photographic film base and film. 3,052,543, 9–4–62, Cl. 96—87.

Bauer, Horace P.: *See*—
Dean, Albert G., and Bauer. 3,066,621.

Bauer, Horst, to Kling, Robert, Wetzlar Gesellschaft mit beschrankter Haftung, Firma. Sliding roller bearing. 3,054,648, 9–18–62, Cl. 308—6.

Bauer, Hugo, F. T. May, and S. A. Lopenski, to Westinghouse Electric Corp. Article fabricating machine. 3,017,852, 1–23–62, Cl. 118—49.5.

Bauer, Jordan V., 45% to R. H. Curtis, and 10% to R. L. Johnston. Products useful as filtering devices and method of making them. 3,025,963, 3–20–62, Cl. 210—493.

Bauer, Jordan V., and L. H. Elizer, to The Hubinger Co. Adhesive compositions. 3,019,120, 1–30–62, Cl. 106—213.

Bauer, Klaus: *See*—
Kaufmann, Wilfried, and Bauer. 3,060,103.
Kaufmann, Wilfried, Bauer, and Medick. 3,033,758.

Bauer, La Verne N., to Rohm & Haas Co. Preparation of copolymers useful as dispersants in oils. 3,052,648, 9–4–62, Cl. 260—45.5.

Bauer, Myron J., G. A. Kane, M. C. Neuman, and J. S. Scheurich, to United States of America, Navy. Missile vibration dampener and support. 3,022,031, 2–20–62, Cl. 248—119.

Bauer, Myron J., T. D. Erickson, G. A. Kane, M. C. Neuman, and J. S. Scheurich, to United States of America, Navy. Absorber vibration system for empty missile tray. 3,052,440, 9–4–62, Cl. 248—119.

Bauer, Oliver F., E. R. Beman, and R. E. Smith, to The Gleason Works. Tester for gears and the like. 3,069,779, 12–25–62, Cl. 33—179.5.

Bauer, Oliver F., and E. J. Hunkeler, to The Gleason Works. Testing or finishing machine for bevel or hypoid gears. 3,069,813, 12–25–62, Cl. 51—26.

Bauer, Peter: *See*—
Kingsbury, John, and Bauer. 3,062,916.

Bauer, Ralph L., to Bucyrus-Erie Co. Stabilizer for crawler-mounted vehicles. 3,053,334, 9–11–62, Cl. 180—9.2.

Bauer, Ralph L., and T. O. Davidson, to Bucyrus-Erie Co. Rope-thrust power shovel. 3,037,649, 6–5–62, Cl. 214—135.

Bauer, Richard D.: *See*—
Slocum, Charles W. 3,048,028.

Bauer, Richard J., J. A. Haeber, L. G. Otteman, and R. E. Perner, to Shell Oil Co. Wellhead assembly lock-down apparatus. 3,064,735, 11–20–62, Cl. 166—66.5.

Bauer, Robert, and R. L. Mast, to Miles Laboratories, Inc. Diagnostic composition. 3,016,292, 1–9–62, Cl. 23—253.

Bauer, Robert D., to Phillips Petroleum Co. Isobutane stripper-depropanizer operation. 3,069,483, 12–18–62, Cl. 260—683.48.

Bauer, Robert D., and C. E. Bellinger, to Phillips Petroleum Co. Heat exchange apparatus and method. 3,048,373, 8–7–62, Cl. 257—239.

Bauer, Robert D., and C. C. Chapman, to Phillips Petroleum Co. Method for the defluorination of reaction products. 3,066,175, 11–27–62, Cl. 260—683.48.

Bauer, Robert E. Container construction. 3,015,430, 1–2–62, Cl. 229—45.

Bauer, Robert E., and W. J. Lawrence, Jr., to The Borden Co. Flanged closure cap for resiliently yieldable plastic container. 3,042,273, 7–3–62, Cl. 222—548.

Bauer, Robert F., and H. Stratton, to Shell Oil Co., Continental Oil Co., The Superior Oil Co., and Union Oil Co. of California. Drilling. 3,043,255, 7–10–62, Cl. 114—5.

Bauer, Roy C. Tip guard for skate blades. 3,026,119, 3–20–62, Cl. 280—11.18.

Bauer, Russell E., and D. Lorimer, to Cadillac Gage Co. Gun sight. 3,032,882, 5–8–62, Cl. 33—47.

Bauer, Werner R., to Robertshaw-Fulton Controls Co. Relay. 3,022,399, 2–20–62, Cl. 200—87.

Bauer, William C.: *See*—
Frint, William R., and Bauer. 3,037,849.

Bauer, Kurt. Electric nipper-type dry shaver. 3,065,541, 11–27–62, Cl. 30—42.

Bauerlein, Carl C.: *See*—
Lund, James K., Bauerlein, and Janquart. 3,020,727

Bauerlein, Carl C., to The Dole Valve Co. Rotatable ice tray. 3,021,694, 2–20–62, Cl. 62—349.

Bauerlein, Carl C., to The Dole Valve Co. Control mechanism for an ice making apparatus. 3,026,685, 3–27–62, Cl. 62—135.

Bauerlein, Carl C., to The Dole Valve Co. Thermally responsive actuator. 3,027,730, 4–3–62, Cl. 62—135.

Bauerlein, Carl C., to The Dole Valve Co. Heat sensitive valve control assembly. 3,061,196, 10–30–62, Cl. 236—48.

Bauerlein, Carl C., to The Dole Valve Co. Ice element powered cuber. 3,063,662, 12–18–62, Cl. 62—353.

Bauger, Louis A. J.: *See*—
Bertin, Jean H., Bauger, Kadosch, and Maunoury. 3,041,823.

Bauger, Louis J.: *See*—
Vesper, Walter, Schinzinger, and Bauger. 3,026,675.

Baugh, Charles. Salt composition and process for making same. 3,048,525, 8–7–62, Cl. 167—82.

Baugh, Charles W., and G. E. Wehlann, to Huck Mfg. Co. Method and apparatus for applying rivets. 3,029,665, 4–17–62, Cl. 78—46.

Baugh, Charles W. J.: *See*—
Sweeney, Harold E., and Baugh. 3,069,679.

Baugh, Charles W., Jr., to Westinghouse Electric Corp. Television automatic frequency control apparatus. 3,018,-325, 1–23–62, Cl. 178—5.8.

Baugh, Charles W., Jr., to Westinghouse Electric Corp. Automatic frequency control for television apparatus. 3,023,272, 2–27–62, Cl. 178—5.8.

Baugh, Charles W., Jr., to Westinghouse Electric Corp. Television automatic frequency control apparatus. 3,028,-448, 4–3–62, Cl. 178—5.8.

Baugh, Charles W., Jr., and C. A. Kingsford-Smith, to Westinghouse Electric Corp. Tuning system for television receivers. 3,018,327, 1–23–62, Cl. 178—5.8.

Baugh Chemical Co., The: *See*—
Barrett, Elliott P. 3,021,287.

Baugh, Edwin D., and R. K. Szatkowski, to Continental Can Co., Inc. Traveling mandrel mechanism for continuous welding machines. 3,056,535, 10–2–62, Cl. 226—172.

Baugh, Francis H., E. D. Jones, and H. H. Wood, to Canadian Industries Ltd. Fault detection in multifilament yarns. 3,063,007, 11–6–62, Cl. 324—54.

Baugh, William T., Jr. Nut picker. 3,026,666, 3–27–62, Cl. 56—328.

Baughman, Edwin C. Marine sewage pump and disposal system. 3,035,274, 5–22–62, Cl. 4—77.

Baughman, George M., and J. E. Erhardt, Jr., to The Wean Engineering Co., Inc. Vacuum coating apparatus. 3,059,-103–22–62, Cl. 118—49.1.

Baughman, Richard A., to General Electric Co. Bearing materials tester. 3,053,073, 9–11–62, Cl. 72—7.

Baulio Etablissement: *See*—
Denecke, Hans-Joachim. 3,049,962.

Baum, Bernard O., to Union Carbide Corp. Polypropylene stabilized with a dithiophosphate metal salt. 3,041,311, 6–26–62, Cl. 260—45.75.

Baum, Bernard O., to Union Carbide Corp. Propylene polymer stabilized with a combination of an alkyl phenol-formaldehyde resin and a 2-thiono-2-mercapto dioxaphosphorinan compound. 3,065,197, 11–20–62, Cl. 260—43.

Baum, Engelbert, to Aktiebolaget Separator. Releaser for milking machine plants. 3,044,443, 7–17–62, Cl. 119—14.6.

Baum, Joseph V., and D. E. Roop, to Texas Instruments Inc. Gas detector incorporating compensation for atmospheric conditions. 3,052,465, 10–23–62, Cl. 73—30.

Baum, Kurt, and R. J. Friedrich, to Consolidation Coal Co. Preparation of formcoke. 3.018.227, 1–23–62, Cl. 202—26.

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Bennett, Peter H., and Bauman. 3,046,351.

Bauman, Henry H., to Nutting Truck & Caster Co. Food serving cart. 3,042,384, 7–3–62, Cl. 257—293.

Bauman, Robert H.: *See*—
Wilkens, Carl E., and Bauman. 3,016,881.

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Bauman, William C.: *See*—
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Baumann, Arthur N., to International Minerals & Chemical Corp. Process of pelletizing phosphate rock. 3,032,408, 5–1–62, Cl. 71—64.

Baumann, Arthur N., to International Minerals & Chemical Corp. Method for preparing potassium phosphates. 3,035,-898, 5–22–62, Cl. 23—107.

Baumann, Fred W., and G. M. Rosenberry, Jr., to General Electric Co. Brushless synchronous machines. 3,034,035, 5–8–62, Cl. 322—28.

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Bien, Hans-Samuel, and Baumann. 3,037,836.

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Baumann, Hans: *See*—
Hensel, Hans R., and Baumann. 3,045,014.

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Baumann, Herman P., to Koppers Co., Inc. Dyeing expanded polystyrene articles with disperse dyes. 3,059,987, 10–23–62, Cl. 8—4.
Baumann, Irving L.: *See*—
Gaddis, Malcolm R., and Baumann. 3.054,037.
Baumann, John S., J. W. Muller, and R. R. Teichner, to Western Electric Co., Inc. Stock storage and selection system. 3,033,392, 5–8–62, Cl. 214—16.4.
Baumann, Josef: *See*—
Burckhardt, Christof, Moser, and Baumann. 3,048,818.
Moser, Thalmann, and Baumann. 3,054,475.
Baumann, Karl E.: *See*—
Broman, Cyrus R., and Baumann. 3,052,238.
Baumann, Karl E., R. H. Campbell, and A. Marsala, to Baxter Laboratories, Inc. Bottle banding device. 3,067,501, 12–11–62, Cl. 29—235.
Baumann, Ludwig G., to Interpatent A.G. Bathtub bubbling device. 3,031,685, 5–1–62, Cl. 4—180.
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Baumbach, William J. Dianhragm for water closets. 3,047,-015, 7–31–62, Cl. 137—525.1.
Baume, Frank J. Rolling massager. 3,023,749, 3–6–62, Cl. 128—57.
Baume, Frank J. Parking building for vehicles. 3,027,024, 3–27–62, Cl. 214—16.1.
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Baumgaertel, Oswin. Inside calipers. 3,025,610, 3–20–62, Cl. 33—199.
Baumgarten, Werner: *See*—
Siegel, Malcolm, Palombo, and Baumgarten. 3.042,586.
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Baumgartner, Alice R.: *See*—
Baumgartner, William J., Jr. 3,037,322.
Baumgartner, Frank. Tube bender tool. 3,069,944, 12–25–62, Cl. 81—15.
Baumgartner Freres S.A.: *See*—
Bourguignon, Jules F. J. 3,050,631.
Baumgartner, John G. Bristle grinding. 3,063,204, 11–13–62, Cl. 51—119.
Baumgartner, Pierre, to Institut Francais du Petrole Des Carburants et Lubrifiants. Process for converting light energy to mechanical power. 3,067,572, 12–11–62, Cl. 60—25.
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Baumgartner, William H., to Teletype Corp. Paper exit dust shield. 3.050.171, 8–21–62 Cl. 197—133.
Baumgartner, William J., Jr., to A. R. Baumgartner. Whirling light toy. 3,037,322, 6–5–62, Cl. 46—228.
Baumhart, Donald H., to Ford Motor Co. Dynamoelectric machine. 3,026,432, 3–20–62, Cl. 310—239.
Baumotte, Hans: *See*—
Engel, Wolfgang, and Baumotte. 3,031,989.
Baur Bros. Co., The: *See*—
Eberhardt, Lee E. 3,052,592.
Ginaven, Marvin E. 3,021,782.
Baur, Carl, to Agfa Aktiengesellschaft. Photographic camera. 3.044,380. 7–17–62, Cl. 95—44.
Baur, Carl, and C. Otzen, to Firma Agfa Aktiengesellschaft. High-power photographic objective. 3,029,698, 4–17–62, Cl. 88—57.
Baur, Carl, and C. Otzen, to Agfa Aktiengesellschaft. Photographic tele-objective. 3,033,081, 5–8–62, Cl. 88—57.
Baur, Carl, and G. Konigl, to Agfa Aktiengesellschaft. Combined range and view finder. 3,041,919, 7–3–62, Cl. 88—2.4.
Baur, Carl, and E. Burger, to Agfa Aktiengesellschaft. Iris diaphragm. 3,055,282, 9–25–62, Cl. 95—64.
Baur, Carl, E. Burger, and J. Notzl, to Agfa Aktiengesellschaft, Firma. Structure for removably connecting a device to a support therefor. 3,070,389, 12–25–62, Cl. 287—20.5.
Baur, Fredric J.: *See*—
Schmid, Dieter F., and Baur. 3,059,009.
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Baur, Fredric J., to The Procter & Gamble Co. Mixed triglyceride compositions. 3,027,259, 3–27–62, Cl. 99—118.
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Baur, Fredric J., to The Procter & Gamble Co. Glyceride crystallization process. 3,059,011, 10–16–62, Cl. 260—428.
Baur, Fritz, to Wm. Ainsworth & Sons, Inc. Sensitivity compensated balance. 3,019,846, 2–6–62, Cl. 177—246.
Baur, Karl, to Telefunken Patentverwertungs-G.m.b.H. Multiple-wave direction finder. 3,056,959, 10–2–62, Cl. 343—113.
Baur, Otto: *See*—
Seifert, Richard, and Baur. 3,064,633.
Bausch & Lomb Inc.: *See*—
Aikens, James P. 3,042,548.
Andreas, Norman D. 3,060,797.
Andreas, Norman D., and Lueck. 3,035,483.
Ballmer, James E. 3,023,635.
Benford, James R. 3,023,504.
Benford, James R. 3,035,486.
Boughton, Olin W., De Grave, and Maier. Re. 25,115.
Boughton, Olin W., and Maier. 3,060,801.
Brumley, Corwin H. 3,046,554.
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Brumley, Corwin H., and Clark. 3,060,800.
Cammitz, Harold G. 3,058,067.
Clark, James A., and Krajowsky. 3,028,791.
Davis, Earl K. 3,020,165.
De Grave, Charles J., Jr., and Straat. 3,016,795.
Douglass, Pritchard C., and Giglio. 3,065,152.
Emmel, Henry J. 3,041,933.
Ferris, John T., Sheldon, Talbot, and Ulrich. 3,057,345.
Firestine, Arthur G., Mooney, and Zak. 3,030,746.
Gauley, Sherman. 3,029,906.
Gauley, Sherman. 3,035,665.
Gruner, Heinz E. R. 3,049,966.
Hayes, John D. 3,018,686.
Hayes, John D. 3,030,860.
Hoogesteger, Paul A. 3,035,364.
Hudson, Lena M. 3,064,533.
Kinkelstein, Nisson A. 3,045,542.
Korones, Herbert D., and Rosenberger. 3,045,545.
Krajowsky, Michael, and Turner. 3,028,792.
Lewis, Robert E., and Meltzer. 3,060,806.
McCulloch, Donald J., and Stegeman. 3,060,803.
Meltzer, Robert J. 3,019,694.
Meltzer, Robert J. 3,023,663.
Meltzer, Robert J. 3,041,923.
Mooney, Charles F. 3,064,401.
Morrealle, Dominick, and Waldock. 3,064,717.
Mortimer, Donald C., and Seidenberg. 3,030,861.
O'Dea, Martin J., and Stegeman. 3,045,543.
Radziwon, Norman J. 3,030,858.
Radziwon, Norman J. 3,034,401.
Ruben, Paul L., and Ziegler. 3,041,934.
Saxe, Douglas M. 3,018,689.
Schuma, Richard F. 3,057,259.
Schwartz, John M. 3,035,487.
Schwartz, John M., and Ziegler. 3,030,863.
Sheldon, Gilbert J. 3,042,022.
Sheldon, Gilbert J. 3,060,972.
Shumway, Carl K., Jr. 3,030 857.
Stegeman, Raymond F. E. 3,049,716.
Stegeman, Raymond F. E. 3,060,802.
Straat, Harold W. 3,019,707.
Straat, Harold W. 3,064,529.
Uebelacker, William J. 3,050,314.
Wallace, William T. 3,020,877.
Wallace, William T. 3,020,880.
Weinberg, Joseph W. 3,056,166.
Zak, Theodore J. 3,050,422.
Baut, Eugene R., and H. S. Art glass panel. 3,064,380, 11–20–62, Cl. 41—21.
Baut, Harry S.: *See*—
Baut, Eugene R. and H. S. 3,064,380.
Bauwerk A.G.: *See*—
Stahli, Alois. 3,065,834.
Bavaro, Vincenza, to Societa A.R.L.M.G.S.-Moviesbox General System. Apparatus for the automatic projection upon selection of sound films. 3,041,925, 7–3–62, Cl. 88—16.2.
Bavid-Atomic, Inc.: *See*—
Ogden, George W., Jr. 3,058,388.
Bavisotto, Vincent S., to Chas. Pfizer & Co., Inc. Blue cheese flavoring composition. 3,034,902, 5–15–62, Cl. 99—140.
Bayley, Abraham, and E. W. Robb, II, to Philip Morris Inc. Smoking composition. 3,047,431, 7–31–62, Cl. 131—17.
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Bavor, Gordon F., H. D. Doolittle, and W. Brunhart, to The Machlett Laboratories, Inc. Protective circuits for electron tubes. 3,069,548, 12–18–62, Cl. 250—103.
Bawdekar, Vaman S., to Associated Electrical Industries Ltd. Thermionic valves. 3,062,980, 11–6–62, Cl. 313—174.
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Bawtinheimer, Charles E. Apparatus for forming workpieces. 3,023,647, 3–6–62, Cl. 77—32.2.
Baxby, Jack H., to United States of America, Navy. Polyethylene inhibitor for propellant grains. 3,050,429, 8–21–62, Cl. 156—86.
Baxendale, Lily: *See*—
Gottfried, Siegfried, and Baxendale. 3,066,072.
Gottfried, Siegfried, and Baxendale. 3,070,623.
Baxendale, Lily, and S. Gottfried, to Biorex Laboratories Ltd. Glycyrrhetinic acid dialkylaminoalkyl esters. 3,070,624, 12–25–62, Cl. 260—468.5.
Baxendell, Charles D.: *See*—
Wiley, Roy O., and Baxendell. 3,036,185.
Baxt, Kenneth M. Communication apparatus. 3,029,307, 4–10–62, Cl. 179—1.
Baxter, Benjamin. Self-seating gate valve. 3,054,593, 9–18–62, Cl. 251—203.
Baxter, Bruce L., to Reynolds Metals Co. Composite aluminum tower and the like. 3,062,335, 11–6–62, Cl. 189—12.
Baxter, Bruce L., to Reynolds Metals Co. Tower. 3,062,336, 11–6–62, Cl. 189—19.
Baxter, Clyde W.: *See*—
Harris, Ben A., Baxter, and Wiseman. 3,015,737.
Baxter Corp., The: *See*—
Robinson, Earl H. 3,021,945.
Baxter, Don, Inc.: *See*—
Coanda, George. 3,042,035.
Coanda, George. 3,064,653.
Corcoran, William H., Goldberg, and Hamilton. 3,064,652.
Cowley, Calvin C. 3,057,350.
Elder, Wayne L. 3,030,952.
Gossett, Fred C., and Hamilton. 3,030,955.
Hallamore, Kim, and Carlson. 3,021,840.
Hamilton, Donald A. 3,021,942.
Hamilton, Donald A. 3,025,855.
Hamilton, Donald A. 3,057,370.
Hamilton, Donald A., and Howell. 3,029,059.
Hershenson, Harold. 3,066,833.
Murphy, William P., Jr. 3,033,038.
Murphy, William P., Jr. 3,048,192.
Nuffer, Orville P. 3,057,520.
Pool, William O. 3,067,098.
Thornton, Stephen D., Jr. 3,030,954.
Thornton, Stephen D., Jr. 3,058,472.
Wall, Wendell L., Cowley, and Hamilton. 3,050,059.
Baxter, Donald J., and P. C. Hungerford, Jr., to Curtiss-Wright Corp. Speed and electrical force responsive hydraulic governor units. 3,030,931, 4–24–62, Cl. 121—42.
Baxter Filtration Corp.: *See*—
Baxter, Thomas D. 3,064,815.
Baxter, H. C., & Bro.: *See*—
Cyr, Joseph W. 3,056,683.
Baxter, Henry R., to Celwood Industries Ltd. Sashless window pane tensioner. 3,060,487, 10–30–62, Cl. 16—1.
Baxter, Henry R., to Celwood Industries Ltd. Sashless window latch. 3,061,348, 10–30–62, Cl. 292—202.
Baxter, James C., and R. A. Gowing; said Gowing assor. to said Baxter. Tube forming machine construction. 3,051,061, 8–28–62, Cl. 93—80.
Baxter, Joseph, Jr., to The Black-Clawson Co. Paper machinery. 3,051,233, 8–28–62, Cl. 162—337.
Baxter Laboratories, Inc.: *See*—
Barton, Raymond W. 3,033,203.
Barton, Raymond W. 3,059,643.
Baumann, Karl E., Campbell, and Marsala. 3,067,501.
Broman, Cyrus R. 3,035,575.
Broman, Cyrus R. 3,058,464.
Broman, Cyrus R., and Baumann. 3,052,238.
Burke, George K. 3,021,841.
Earl, Robert F. 3,064,647.
Gewecke, Theodore H. 3,056,403.
Ginger, Leonard G., and Kartinos. 3,055,923.
Goyke, Leonard F. 3,050,061.
Kompelien, Alexander O., and Broman. 3,048,173.
Nuffer, Orville P. 3,022,784.
Poitras, Edward J., and Walter. 3,047,177.
Poitras, Edward J., and Walter. 3,047,178.
Reimann, Rogert C. 3,067,898.
Richter, John W., and Nawoj. 3,033,202.
Rowles, Harwood S., Jr. 3,058,799.
Schleich, Hans, and Arnold. 3,037,870.
Stone, Irwin M. 3,026,205.
Stone, Irwin M. 3,061,439.
Thorstad, James A. 3,055,367.
Baxter, Orion M. Concrete finishing device. 3,046,856, 7–31–62, Cl. 94—48.
Baxter, Thomas D., to Baxter Filtration Corp. Filter. 3,064,815, 11–20–62, Cl. 210—102.
Baxter, Thomas R. Drainage pouch for medical purposes. 3,055,368, 9–25–62, Cl. 128—283.
Bay, Jack A. M., ¼ to Societe d'Exploitation de Brevets de Machines Agricoles (S.E.B.M.A.). Coupling and dumping system. 3,066,983, 12–4–62, Cl. 298—5.
Bay, Paul G., to The Glidden Co. Synthesis of mixed terpene esters from myrcene hydrohalides. 3,062,874, 11–6–62, Cl. 260—489.
Bayard, La Vern S., and G. R. Eckstein, to Remington Arms Co., Inc. Shotshell end closure and method of forming. 3,055,302, 9–25–62, Cl. 102—43.
Bayer, Arnold. Drying droppings from fowls. 3,062,184, 11–6–62, Cl. 119—22.
Bayer, August H., to The Bishopric Products Co. Beer fermenting tank. 3,047,190, 7–31–62, Cl. 220—71.
Bayer, Erich. Apparatus for the continuous production of endless sheets of fiber-reinforced hardenable plastics. 3,040,379, 6–26–62, Cl. 18—19.
Bayer, Franz X. Composite glass sheet. 3,026,582, 3–27–62, Cl. 20—56.5.
Bayer, Friedrich, to Friedrich Grohe Armaturenfabrik. Thermostatic mixing valve. 3,044,707 7–17–62 Cl. 236—12.
Bayer, Gerhard, to Owens-Illinois Glass Co. Manufacture of refractory oxide coatings. 3,050,409, 8–21–62, Cl. 117—22.
Bayer, Gerhard, to Owens-Illinois Glass Co. Titanium, zirconium, and tin tellurites. 3,053,616, 9–11–62, Cl. 23—50.
Bayer, Gerhard, to Owens-Illinois Glass Co. Cerium tellurite, and method of preparation. 3,053,617, 9–11–62, Cl. 23—50.
Bayer, Gerhard, to Owens-Illinois Glass Co. Method for making titanium, zirconium and tin tellurites. 3,053,618, 9–11–62, Cl. 23—50.
Bayer, Gerhard, to Owens-Illinois Glass Co. Method of producing cerium tellurite. 3,053,619, 9–11–62, Cl. 23—50.
Bayer, Gerhard, to Owens-Illinois Glass Co. Inorganic metal oxides. 3,053,684, 9–11–62, Cl. 106—292.
Bayer, Gerhard, to Owens-Illinois Glass Co. Aluminum, chromium and gallium tellurates. 3,070,421, 12–25–62, Cl. 23—50.
Bayer, Gerhard, to Owens-Illinois Glass Co. New chromium-tungsten oxide, and preparation. 3,070,422, 12–25–62, Cl. 23—51.
Bayer, Harry, to New York Silicate Book Slate Co., Inc. Safety mechanism. 3,057,084, 10–9–62, Cl. 35—67.
Bayer, Herbert. Multiple panel space divider structure. 3,049,203, 8–14–62, Cl. 189—62.
Bayer, Otto: *See*—
Bartl, Herbert, Bayer, and Scheurlen. 3,035,011.
Graulich, Wilhelm, Lehmann, Bayer, Kass, and Berlenbach. 3,062,686.
Malz, Hugo, Kühle, and Bayer. 3,053,876.
Malz, Hugo, Lober, Bayer, and Scheurlen. 3,044,981.
Merten, Rudolf, Loew, and Bayer. 3,047,540.
Müller, Erwin, Bayer, and Peter. 3,044,991.
Muth, Friedrich, Drapal, and Bayer. 3,066,166.
Neumann, Wolfram, and Bayer. 3,058,955.
Rinke, Heinrich, and Bayer. 3,027,225.
Schellenberg, Wolf-Dietrich, and Bayer. 3,030,208.
Schwechten, Heinz-Werner, and Bayer. 3,047,577.
Thoma, Wilhelm, Bayer, and Rinke. 3,023,100.
Thoma, Wilhelm, Bayer, and Rinke. 3 023,193.
Von Brachel, Hanswilli, Bayer, von Finck, and Langmann. 3,056,695.
Wagner, Kuno, and Bayer. 3,023,228.
Wagner, Kuno, Muller, Holtschmidt, and Bayer. 3,043,801.
Bayer, Paul. Process for producing printing plates. 3,031,302, 4–24–62, Cl. 96—36.
Bayer, Robert A., R. C. Cole, and G. H. Stoughton, to General Motors Corp. Apparatus for automatically reducing the stroke of a free piston engine during low load conditions of an associated receiver machine. 3,016,689, 1–16–62, Cl. 60—13.
Bayer, Robert O., and R. C. Meinzer, to E. I. du Pont de Nemours and Co. Pump wear plate. 3,050,846, 8–28–62, Cl. 29—527.
Bayerische Schrauben- und Federn-Fabriken Richard Bergner, Firma: *See*—
Gerlach, Martin, and Forster. 3,015,685.
Gerlach, Martin, and Müller. 3,032,605.
Schmidt, Karl-Ludwig, Müller, Bayer, Genski, and Peter. 3,036,042.
Bayerl, Joseph J., to United States Rubber Co. Dust guard and oil seal for railway car journal boxes. 3,041,091, 6–26–62, Cl. 277—174.
Bayes, Alfred L.: *See*—
Smith, Paul L., and Bayes. 3,044,887.
Bayha, Jack E.: *See*—
Faulkner, Willard J., and Bayha. 3,046,020.
Bayles, William H., and B. C. Nash, to Nash Engineering Co. Method and apparatus for high performance evacuation system. 3,064,878, 11–20–62, Cl. 230—45.
Bayless, Frank K., to General Electric Co. Rug scrubbing tool attachment particularly for floor polishers. 3,019,465, 2–6–62, Cl. 15—180.
Bayley, Donald S.: *See*—
Ten Bosch, Maurits, Bayley, Mathiesen, and Schaefer. 3,039,096.
Bayley, Donald S., P. A. White, and C. F. Schaefer, to United Aircraft Corp. Intervalometer. 3,027,808, 4–3–62, Cl. 89—1.5.
Bayley, Frederick J., to Pembroke Carton & Printing Co., Ltd. Carton folding machines. 3,023,680, 3–6–62, Cl. 93—51.
Bayley, Frederick J., and L. E. Nichols, to Pembroke Carton & Printing Co. Ltd. Machines for folding blanks. 3,028,797, 4–10–62, Cl. 93—51.
Bayliss, Alan J., E. Gardner, and T. B. Tomlinson, to The General Electric Co. Ltd. Electrical apparatus for providing an indication of the relating positions of relatively movable means. 3,030,513, 4–17–62, Cl. 250—208.
Baylor University: *See*—
West, Walton D. 3,057,998.

Bayly, Charles, and B. O. Walkley, to Imperial Chemical Industries Ltd. Rocket motor casings. 3,044,256, 7–17–62, Cl. 60—35.6.

Bayly, John G., and W. H. Stevens, to Atomic Energy of Canada Ltd. Light water analyser. 3,021,427, 2–13–62, Cl. 250—43.5.

Baynes, Gene P., and A. I. Jacobsen, to The Bendix Corp. Simplified method and/or tool for refinishing clutch plates. 3,027,632, 4–3–62, Cl. 29—407.

Baynes, Gene P., B. E. Bickelhaupt, and A. B. Backensto, to The Bendix Corp. Friction article and method for mounting same. 3,064,343, 11–20–62, Cl. 29—420.

Baynham, John W.: *See*—
Barrer, Richard M., and Baynham. 3,056,654.

Baynham, John W., to Scottish Agricultural Industries Ltd. Fertilizer compositions. 3,026,193, 3–20–62, Cl. 71—50.

Bays, Carl A., to FMC Corp. Method of forming underground communication between boreholes. 3,058,730, 10–16–62, Cl. 262—3.

Bayston, John R. Adjustable ice crusher. 3,037,714, 6–5–62, Cl. 241—190.

Bayuk Cigars Inc.: *See*—
Landis, Frank S. 3,046,873.

Bazata, Francis J.: *See*—
Bertenshaw, Allen E., and Bazata. 3,049,257.

Bazinet, Wilfred P., Jr.: *See*—
Hicks, John W., Jr., and Bazinet. 3,050,907.

Bazinet, Wilfred P., Jr., and H. B. Cole, to American Optical Co. Method and apparatus for manufacturing light-conducting devices. 3,037,241, 6–5–62, Cl. 18—8.

Beaber, Nathaniel J., and J. H. Obey, to J. R. Short Milling Co. Method for producing organoleptically bland protein. 3,043,826, 7–10–62, Cl. 260—123.5.

Beach, David D., to McCulloch Corp., Marine Products Division. Collapsible top for boats. 3,051,967, 9–4–62, Cl. 9—1.

Beach, David D., to McCulloch Corp. Boat construction. 3,052,896, 9–11–62, Cl. 9—1.

Beach, Earl F.: *See*—
Upton, Chester W., Jr., and Beach. 3,027,439.
Upton, Chester W., Jr., and Beach. 3,047,686.

Beach, Earl F., and G. N. Coker, to Westinghouse Electric Corp. Circuit interrupters. 3,032,632, 5–1–62, Cl. 200—148.

Beach, Joseph C.: *See*—
Beach, Reuben T. 3,025,837.

Beach, Laurence R.: *See*—
Volberg, Herman W., and Beach. 3,015,693.

Beach, Lennox F., to Sperry Rand Corp. Activated fin ship stabilizer. 3,020,869, 2–13–62, Cl. 114—126.

Beach, Lennox F., to Sperry Rand Corp. Shaft speed and acceleration limiting device. 3,067,847, 12–11–62, Cl. 192—4.

Beach, Paul H. Silo. 3,016,814, 1–16–62. Cl. 99—235.

Beach, Reuben T., to J. C. Beach. Can crushing device. 3,025,837, 3–20–62, Cl. 127—38.

Beach, Robert E., and K. A. Lloyd, to Minneapolis-Moline Co. Mounting for crop gathering and harvesting units. 3,026,664, 3–27–62, Cl. 56—10.

Beach, Willis S., to Argus Inc. Camera rewind. 3,061,222. 10–30–62. Cl. 242—71.3.

Beachem, Robert C., to Cutter Laboratories. Segregation chamber and flow meter. 3,042,038, 7–3–62, Cl. 128—214.

Beachem, Michael T., and J. T. Shaw, to American Cyanamid Co. Bis-sulfinic acid-olefin adducts. 3,040,088, 6–19–62, Cl. 260—481.

Beacher, Andrew P. Safety tire and wheel. 3,065,995, 11–27–62, Cl. 301—39.

Beachler, Edward D., to Beloit Iron Works. Head box with balanced slice body. 3,017,929, 1–23–62, Cl. 162—340.

Beachler, Edward D., to Beloit Iron Works. Suction regulating means. 3,024,839, 3–13–62, Cl. 162—364.

Beachler, Edward D., to Clupak, Inc. Flexible nip loading arrangement. 3,035,512, 5–22–62, Cl. 100—160.

Beachler, Edward D., to Beloit Iron Works. Positioning and force applying spring arrangement for paper making machine. 3,052,293, 9–4–62, Cl. 162—273.

Beachler, Edward D., to Beloit Iron Works. Wire tensioning device. 3,052,294, 9–4–62, Cl. 162—273.

Beachler, Edward D., Beloit Iron Works. Blade coater assembly and changer. 3,070,461, 12–25–62, Cl. 117—120.

Beachler, Edward D., and E. J. Justus, to Beloit Iron Works. Belted suction box arrangement. 3,025,910, 3–20–62, Cl. 162—367.

Beachler, Edward D., and L. E. Dennis, to Beloit Iron Works. Multipie pipe stock distributor. 3,065,788, 11–27–62, Cl. 162—336.

Beachler, Edward D., and L. E. Dennis, to Beloit Iron Works. Deflectors for Fourdrinier forming wires. 3,065,789, 11–27–62, Cl. 162—352.

Beachner, Robert W.: *See*—
Thut, Paul J., and Beachner. 3,020,841.

Beacon Machinery, Inc.: *See*—
Fenton, Frank W. 3,031,701.

Beagley, Charles W. Cutter guard. 3,063,320, 11–13–62, Cl. 83—397.

Beahm, Horace C., and L. T. Spartis; said Beahm assor. to M.S.A. Research Corp. and said Spartis assor. to Mine Safety Appliances Co. Method of making zigzag filter element. 3,049,461, 8–14–62, Cl. 156—197.

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Beal, Albert H. Well survey instruments. 3,059,342, 10–23–62, Cl. 33—205.5.

Beal, Carl L., to Crawford & Russell Inc. Method and apparatus for treatment of polymers. 3,060,501, 10–30–62, Cl. 18—8.

Beal, James F.: *See*—
Weber, Victor, Branson, and Beal. 3,044,299.

Beal, Philip F., III, and R. W. Jackson, to The Upjohn Co. 14-dehydro- and 15-dehydro-11-oxygenated-progesterones. 3,021,327, 2–13–62, Cl. 260—239.55.

Beal Philip F., and F. Kagan, to The Upjohn Co. 15α-methyl-15β-hydroxy analogues of 9α-fluoro cortisone and hydrocortisone and their Δ′ derivatives. 3,053,864, 9–11–62, Cl. 260—397.45.

Beal, Robert E., to United States of America, Agriculture. Preparation of polyunsaturated fatty acids. 3,052,699, 9–4–62, Cl. 260—413.

Beale, Charles H., to Warren Brothers Roads Co. Power rolling apparatus. 3,052,167, 9–4–62, Cl. 94—50.

Beale, Evelyn S., to McCorquodale Colour Display Ltd. Apparatus for the deposition of liquid materials. 3,021,816, 2–20–62, Cl. 118—411.

Beale, Evelyn S. L., to McCorquodale Colour Display Ltd. Method and apparatus for the deposition of viscous liquid materials. 3,043,711, 7–10–62. Cl. 117—38.

Beale, Evelyn S. L., and J. C. Sanderson, to McCorguodale Colour Display Ltd. Apparatus for the deposition of liquid materials. 3,056,384, 10–2–62, Cl. 118—411.

Beale, Julian R. A., to North American Philips Co., Inc. Semiconductor devices. 3,069,297, 12–18–62, Cl. 148—1.5.

Beale, Stanley E.: *See*—
Schwab, Helmut, Anderson, and Beale. 3,017,232.

Beall, Richard W., Jr. Pressure equalizing container. 3,043,463, 10–10–62, Cl. 215—56.

Beall, Richard W., Jr., ½ to L. H. Chandler. Battery cable make-up tool. 3,020,623, 2–13–62, Cl. 29—33.5.

Beall, Richard W., Jr., ½ to L. H. Chandler. Vented non-drip liquid dispensing device. 3,033,247, 5–8–62, Cl. 141—308.

Beall, Robert S.: *See*—
Eichhorn, Jacob, Seamster, and Beall. 3,056,743.

Beall, William R., to Clary Corp. Read-out system. 3,036,292, 5–22–62, Cl. 340—172.5.

Beals, Albert P. Reciprocating drive mechanism. 3,017,779, 1–23–62, Cl. 74—50.

Beals, Roscoe G. C-clamps with ratchet action screws. 3,066,931, 12–4–62, Cl. 269—173.

Beam, Walter R., and F. Sterzer, to Radio Corp. of America. Parametric oscillator circuit with frequency changing means. 3,051,844, 8–28–62, Cl. 331—55.

Beaman Corp.: *See*—
Bransford, Ernest O., Jr. 3,020,604.
Bransford, Ernest O., Jr. 3,020,988.

Beaman Engineering Corp.: *See*—
Bransford, Ernest O., Jr. 3,020,604.
Bransford, Ernest O., Jr. 3,020,988.

Beaman, John B., and V. L. Ott. Multiple cut lawn edger. 3,058,287, 10–16–62, Cl. 56—249.

Beaman, John B., and V. L. Ott. Twin shear disc tool for mulching and the like. 3,058,531, 10–16–62, Cl. 172—15.

Beaman, Norman V., and R. M. Broomall, to C. J. Patterson Co. Dough bowl hoist. 3,035,725, 5–22–62, Cl. 214—302.

Beaman, Norman V., H. P. Hudson, and H. E. Gauss, to C. J. Patterson Co. Vertical mixer. 3,046,812, 7–31–62, Cl. 74—660.

Beaman, Ralph G., to E. I. du Pont de Nemours and Co. Stretchable polymers. 3,040,003, 6–19–62, Cl. 260—77.5.

Beaman, Ralph G., to E. I. du Pont de Nemours and Co. Polymers from polyisocyanates and process for producing them. 3,048,566, 8–7–62, Cl. 260—77.5.

Beames, Geoffrey H., E. E. Gilbert, C. Richardson, and B. Veldhuis, to Allied Chemical Corp. Benzenesulfonic acid nematocides. 3,034,952, 5–15–62, Cl. 167—30.

Beams, Jesse W., to United States of America, Navy. Apparatus for rotating freely suspended bodies. 3,041,882, 6–26–62, Cl. 310—11.

Beams, Jesse W., to Exemplar, Inc. High vacuum pump systems. 3,066,849, 12–4–62, Cl. 230—117.

Bean, Charles J., to First Container Corp. Couplings for air conditioning ducts made from corrugated paper material. 3,047,314, 7–31–62, Cl. 285—55.

Bean, Claude T.: *See*—
Weinberg, Alan E., Bean, Robitschek, and Schoepfle. 3,051,585.

Bean, Claude T., Jr.: *See*—
Verbanic, Carl J., Bean, and Robitschek. 3,055,932.

Bean, Floyd A.: *See*—
Howell, John K., and Bean. 3,026,395.

Bean, John W., to The Fuller Brush Co. Socket connector for mop and brush handles. 3,016,272, 1–9–62, Cl. 306—19.

Bean, John W., to The Fuller Brush Co. Hand mirror. 3,019,710, 2–6–62, Cl. 88—89.

Bean, John W., to The Fuller Brush Co. Dry mop construction. 3,027,584, 4–3–62, Cl. 15—229.

Bean, Kenneth E., and W. E. Medcalf, to United States of America, Army. Boron deposition method. 3,053,636, 9–11–62, Cl. 23—209.

Bean, Malcolm W., Jr. Graphic computer. 3,034,708, 5–15–62, Cl. 235—61.

Bean, Paul C., to FMC Corp. Fruit peeling apparatus. 3,024,-821, 3–13–62, Cl. 146—49.
Beaney, Walter E., to The Whiton Machine Co. Turbine Construction. 3,044,837, 7–17–62, Cl. 308—36.4.
Bear Mfg. Co.: *See*—
MacMillan, Charles W. 3,030,796.
Robinson, Art L. and Kimmell. 3,031,169.
Beard, Alexander J. E.: *See*—
Goodman, Guy H. 3,048,006.
Beard, Arthur D.: *See*—
Bensky, Lowell S., Nettleton, and Beard. 3,054,958.
Beard, Chester E. Container for contact lenses. 3,052,246, 9–4–62, Cl. 134—155.
Beard, John H.: *See*—
Chalich, Charles, and Beard. 3,058,606.
Beard, Lawrence R., to Deere & Co. Control mechanism. 3,049,939. 8–21–62 Cl. 74—528
Beard, Richard B., to Minneapolis-Honeywell Regulator Co. Measuring apparatus. 3,059,111, 10–16–62, Cl. 250—43.5.
Beard, Richard B., and K. C. Hudson, to Minneapolis-Honeywell Regulator Co. Electrical fluid-flow measuring apparatus. 3,019,647, 2–6–62, Cl. 73—204.
Beard, Walter C., Jr., to The Risdon Mfg. Co. Remote actuating means for aerosol dispensers. 3,028,054, 4–3–62, Cl. 222—180.
Bearden, Robert G., and L. G. Schwieger, to Phillips Petroleum Co. System for removal of gases from liquids. 3,044,-236, 7–17–62, Cl. 55—204.
Bearden, Robert G., R. B. Kimball, H. Schneider, and L. G. Schwieger, to Phillips Petroleum Co. Process monitoring analyzer. 3,045,122, 7–17–62, Cl. 250—218.
Bearden, William G., C. R. Fast, and G. C. Howard, to Pan American Petroleum Corp. Process for drilling wells with a gas. 3,065,794, 11–27–62, Cl. 166—21.
Bearden, William G., and J. C. Stall, to Pan American Petroleum Corp. Blown asphalt cements. 3,070,450, 12–25–62, Cl. 106—96.
Beardsley, Guy E., Jr., to United Aircraft Corp. Apparatus for generating a standing wave in a liquid. 3,037,377, 6–5–62, Cl. 73—71.5.
Beardsley, Kenneth D.: *See*—
Vienneau, Jacob J., and Beardsley. 3,034,203.
Wilk, Edmund J., and Beardsley. 3,027,628.
Beardsley, Melville W., to National Research Associates, Inc. Airborne surface vehicle. 3,039,550, 6–19–62, Cl. 180—7.
Bearer, Gerald L., to Voss Engineering Co. Magnetic anti-sag mount for leveler rolls. 3,064,713. 11–20–62, Cl. 153—106.
Bearer, Louis C., to Phillips Petroleum Co. Ignition of solid rocket propellants. 3,069,844, 12–25–62, Cl. 60—35.6.
Bearman, Alexander L.: *See*—
Kocol, Raymond H., and Bearman. 2,031,580.
Bearse, Arthur E., L. J. Hillenbrand, Jr., and H. M. Grotta, to Martin-Marietta Corp. Synthesis of carbazoles. 3,041,-349, 6–26–62, Cl. 260—315.
Beasley, Harold A., to Automatic Telephone & Electric Co. Ltd. Party-line arrangements for automatic telephone switching systems. 3,033,933, 5–8–62, Cl. 179—17.
Beasley, Joseph L.: *See*—
Polsky, Irving, and Beasley. 3,021,141.
Beasley, Thomas J., Jr., and R. P. Rodenbaugh, to Southern Metal Products Corp. Adjustable sash balance. 3,064,306, 11–20–62, Cl. 16—197.
Beason, Elmer C., Jr., to Phillips Petroleum Co. Fluid handling structure. 3,035,595, 5–22–62, Cl. 137—71.
Beasse, Jacques, to Societe Industrielle et Commerciale des Ourvriers Lunetiers (Cottet, Poichet, Tagnon & Cie). Spectacle mountings. 3,025,761, 3–20–62, Cl. 88—47.
Beati, Enrico: *See*—
Natta, Giulio, Beati, and Severini. 3,020,174.
Beaton & Caldwell Mfg. Co.: *See*—
Work, Erich W. 3,055,589.
Beaton, Richard H.: *See*—
Bolter, John R., and Beaton. 3,045,895.
Beatrice, Finton J., to United Aircraft Corp. Phase sensitive demodulator actuated only when input signal is above set threshold level. 3,038,762, 6–12–62, Cl. 307—88.5.
Beatrice Foods Co.: *See*—
Hartmann, Otto C. 3,070,444.
Metzger, Joe. 3,025,164.
Metzger, Joe. 3,025,165.
Beatson, Eric P., and J. C. Floyd, to Imperial Chemical Industries Ltd. Udder-dispersible antibiotic mastitis creams. 3,049,473, 8–14–62, Cl. 165—53.2.
Beattie, Charles W., and E. Komnenovich, to Armco Steel Corp. Method for improving the drawing quality of metallic coated ferrous sheet and strip. 3,028,269, 4–3–62, Cl. 148—127.
Beattie, Harold G.: *See*—
Cathcart, William H., Beattie, and Berquist. 3,038,807.
Kneidl, Franz A., and Beattie. 3,016,705.
Beattie, Jackson W., Sr. Riding crutch. 3,016,060, 1–9–62, Cl. 135—50.
Beattie Mfg. Co., The: *See*—
Corey, Nicholas, and Andrews. 3,070,134.
Beattie, Robert D.: *See*—
Antonsen, Randolph, Bradley, and Beattie. 3,068,089.
Beattie, Sarah B. Heel and counter protector for shoe. 3,063,172, 11–13–62, Cl. 36—72.
Beatty, Donald C. Automatic, circuit-condition-change-responsive, on-off control for loudspeaking telephone and the like. 3,041,411, 6–26–62, Cl. 179—81.
Beatty, Eldon L., and J. E. Martens, to The Anderson Co. Motion-transmitting device. 3,062,070, 11–6–62, Cl. 74—459.
Beatty, Eugene F., to The Bendix Corp. Ratio changing means for fluid actuated brakes. 3,035,870, 5–22–62, Cl. 303—6.
Beatty, Guy M., to Chiksan Co. Pulsation dampener. 3,035,-613, 5–22–62, Cl. 138—30.
Beatty, Harve M. Trip gin pole. 3,064,824, 11–20–62, Cl. 212—61.
Beatty, Howard W., Jr., and C. E. Brady, to Chrysler Corp. Accumulator charging mechanism. 3,049,141, 8–14–62, Cl. 137—108.
Beatty, John W.: *See*—
Power, David R., and Beatty. 3,028,449.
Beatty, John W., to United States of America, Air Force. Chaff dispensing device. 3,023,703, 3–6–62, Cl. 102—89.
Beatty, John W., to United States of America, Air Force. Image intensifying photosensitive film. 3,045,117, 7–17–62, Cl. 250—49.5.
Beatty, John W., to United States of America, Air Force. Day night aerial photographic system. 3,066,589, 12–4–62, Cl. 95—12.5.
Beatty, John W. Shelter apparatus. 3,070,107, 12–25–62, Cl. 135—5.
Beatty, Milton R., to D. G. Carty and S. J. Ternyak. Sweeper brush attachment for rotary mowers. 3,048,869, 8–14–62, Cl. 15—79.
Beatty, William T. Weedless fish hook. 3,032,909, 5–8–62, Cl. 43—36.
Beaty, Jack O. Arterial and veinous clamp and clamp applicator. 3,032,039, 5–1–62, Cl. 128—326.
Beaty, John J. Shoe-shine kits and the like. 3,040,369, 6–26–62, Cl. 15—524.
Beaty, Milton J.: *See*—
Patterson, William E., Terry, Beaty, Kerr, and Collins. 3,030,988.
Beauchamp, Albert J. Method and means for testing the fiber bond in the surface of fibrous material. 3,031,879, 5–1–62, Cl. 73—7.
Beauchamp, Thomas J., Jr. Paper roll grab. 3,057,654, 10–9–62, Cl. 294—86.
Beauchamp, Wilfred A., to The Youngstown Steel Door Co. Locking devices for laterally movable doors. 3,039,154, 6–19–62, Cl. 20—23.
Beauchamp, Wilfred A., to The Youngstown Steel Door Co. Laterally movable doors for railway freight cars. 3,040,-392, 6–26–62, Cl. 20—23.
Beauchamp, Wilfred A., to The Youngstown Steel Door Co. Laterally movable doors. 3,045,295, 7–24–62, Cl. 20—23.
Beauchamp, William D., R. E. Booth, and E. R. Degginger, to Allied Chemical Corp. Purification of crude alkylene oxide polyether. 3,016,404, 1–9–62, Cl. 260—615.
Beaudet, Hermas N.: *See*—
Wechsler, Harry, and Beaudet. 3,053,820.
Beaudette, Charles G., to Computer Control Co., Inc. Shaft angle encoding. 3,041,599, 6–26–62, Cl. 340—347.
Beaudoin, Adrien E.: *See*—
Marzocchi, Alfred, Waugh, and Beaudoin. 3,062,670.
Beaudoin, Leonard W., R. G. Kraft, and K. W. Steinbrecher, to Allis-Bradley Co. Method of preparing a zinc manganese ferrite. 3,046,228, 7–24–62, Cl. 252—62.5.
Beaujard, Louis, C. R. Maeder, and J. A. Pinard, to Institut de Recherches de la Siderurgie. Device for automatically correcting the variables in the ultrasonic testing of materials. 3,048,031, 8–7–62, Cl. 73—67.8.
Beaulieu, Arthur. Animal trap. 3,057,111, 10–9–62, Cl. 43—81.
Beaulieu, Donat E., and I. Cimerman, to Radio Corp. of America. Square wave generator with constant start-stop characteristics. 3,054,072, 9–11–62, Cl. 331—108.
Beaulieu, Raymond D., S. P. Nemphos, and D. A. Popielski, to Monsanto Chemical Co. Composition comprising a foamable styrene polymer containing a three component system and process of foaming. 3,069,367, 12–18–62, Cl. 260—2.5.
Beaumont Birch Co.: *See*—
Davenport, William G., Hampton, and Katzen. 3,022,921.
Pursel, Harold R. 3,059,893.
Schwing, Ronald F. 3,017,039.
Beaumont, Charles: *See*—
Morris, Jack, Zausner, and Beaumont. 3,056,882.
Beaumont, Gerald M., to Underwood McLellan and Associates Ltd. Method and apparatus for sewage disposal. 3,056,742. 10–2–62, Cl. 210—15.
Beaumont, Ralph H., and D. R. Christie, to Huyck Corp. Open weave endless fabric and method for producing the same. 3,032,441, 5–1–62, Cl. 117—138.8.
Beaumont, Richard W., to Ingersoll-Rand Co. Rock drill. 3,059,619, 10–23–62, Cl. 121—16.
Beaunit Mills, Inc.: *See*—
Cox, Norman L., and Nicoll. 3,019,509.
Kingsbury, Chadwick B. 3,060,669.
Kingsbury, Chadwick B. 3,066,357.
Woodell, Rudolph. 3,050,823.
Beauregard, Lucien R.: *See*—
Ziegler, John C., Beauregard, and Langer. 3,057,585.
Beauregard, Robert: *See*—
Filion, Camille, and Beauregard. 3,042,088.
Beautronics, Inc.: *See*—
Cover, Neville E. 3,044,473.
Beaver, Arnold R.: *See*—
Wike, Albert F., and Beaver. 3,018,723.

Beaver, David J., and P. J. Stoffel, to Monsanto Chemical Co. Nitroalkyl dihalocarbanilates. 3,029,273, 4–10–62, Cl. 260—471.
Beaver, David J., and P. J. Stoffel, to Monsanto Chemical Co. Substituted alkynyl ureas. 3,035,093, 5–15–62, Cl. 260—553.
Beaver, David J., and P. J. Stoffel, to Monsanto Chemical Co. 3,4-dichlorophenyl dialkylaminoalkyl ureas and thioureas. 3,061,640, 10–30–62, Cl. 260—552.
Beaver, David J., P. J. Stoffel, and P. C. Hamm, to Monsanto Chemical Co. Composition and method for controlling undesirable vegetation. 3,066,021, 11–27–62, Cl. 71—2.6.
Beaver, Fred R., and W. C. Cradle, to R. H. Bouligny, Inc. Skewer supporting means for textile bobbins. 3,066,886, 12–4–62, Cl. 242—130.4.
Beaver, Garth H. : *See*—
Anderson, Arthur W., Greminger, and Beaver. 3,043,720.
Beaver, Garth H., and H. C. Kelly, to The Dow Chemical Co. Non-frosting frozen package coating. 3,054,688, 9–18–62, Cl. 106—180.
Beaver, Garth H., and L. D. Zerone, to The Dow Chemical Co. Water-soluble thermoplastic cellulose ether compositions and films prepared therefrom. 3,070,451, 12–25–62, Cl. 106—181.
Beaver Pipe Tools, Inc. : *See*—
Prins, Klaas, and Stockmeister. 3,026,750.
Beaver Precision Products, Inc. : *See*—
Blanchard, Roy L., and Miller. 3,045,457.
Sears, Richard E. 3,029,660.
Beaver, Richard J., and C. F. Leitten, Jr., to United States of America, Atomic Energy Commission. Neutronic reactor control element. 3,030,294, 4–17–62, Cl. 204—193.2.
Beaver Tool & Engineering Corp. : *See*—
Dresback, David D. 3,022,084.
Nixon, Raymond F. 3,024,032.
Beavers, Dorothy J., to Eastman Kodak Co. Sulfonic acid esters and quaternary salts of polyhydroxy compounds containing 3 or more ethylene oxide chains as novel photographic sensitizers. 3,039,873, 6–19–62, Cl. 96—108.
Beavers, Dorothy J., to Eastman Kodak Co. Sensitization of photographic silver halide emulsions with sulfur-containing polymers. 3,046,135, 7–24–62, Cl. 96—108.
Beaverson, Lowell D., to General Mills, Inc. Code punching device. 3,016,781, 1–16–62, Cl. 83—633.
Beavon, David K., to Texaco Inc. Alkylation process. 3,052,-743, 9–4–62, Cl. 260—683.61.
Beazley, James W. Flush valve apparatus. 3,038,491, 6–12–62, Cl. 137—426.
Bebel, Joseph, to Daystrom Inc. Dial illuminating means. 3,068,354, 12–11–62, Cl. 240—2.1.
Bebinger, Jack E., to General Electric Co. Food waste disposer. 3,026,050, 3–20–62, Cl. 241—46.
Bebout, Donald R., and C. T. Shaw, to The Mead Corp. Double action flap lock for hinged carton closures. 3,069,065, 12–18–62, Cl. 229—45.
Bebry, Peter P., and D. C. Laemmle. Convertible article of furniture. 3,024,473, 3–13–62, Cl. 5—13.
Becas, Louis : *See*—
Adams, Harold A. 3,061,162.
Bechard, Jerome. Adjustable bridle and clevis. 3,018,117, 1–23–62. Cl. 280—490.
Bechberger, Paul F., to The Bendix Corp. Monitor circuit for a data transmission system. 3,038,150, 6–5–62, Cl. 340—248.
Becher, Elisabeth, K. Bernhauer, and G. Wilharm, to Hoffmann-La Roche Inc. Process for producing vitamins in the B_{12} group by means of propionic acid bacteria. 3,043,-750, 7–10–62, Cl. 195—96.
Becher, Heinrich. Bottle, flask or the like container closure and dispensing device. 3,016,171, 1–9–62, Cl. 222—488.
Bechler, André. Automatic-lathe attachment. 3,054,161, 9–18–62, Cl. 29—56.
Bechler, Vernon D. : *See*—
Waterman, Russell R. 3,028,916.
Bechman, William O., to International Harvester Co. Land clearing implement. 3,022,836, 2–27–62 Cl. 172—698.
Bechmann, Rudolf, to United States of America, Army. Piezoelectric crystal. 3,020,424, 2–6–62, Cl. 310—9.5.
Bechstein, Volker, to Werk Fur Signal- und Sicherungstechnik Berlin, VEB. Warning system for railroad level crossings. 3,037,111, 5–29–62, Cl. 246—130.
Becht, Raymond F., to The Robert Becht Co. Add-a-shelf assembly. 3,027,016, 3–27–62, Cl. 211—153.
Becht, Richard J., to Koehler Aircraft Products Co. Fill valve. 3,062,230, 11–6–62, Cl. 137—413.
Becht, Robert, Co., The : *See*—
Becht, Raymond F. 3,027,016.
Bechtel, Alfred R., Jr., to Ashworth Bros. Inc. Cover plate for flat wire conveyor belt. 3,045,809, 7–24–62, Cl. 198—195.
Bechtell, George R., to Lockheed Aircraft Corp. Apparatus for forming component lead wires. 3,039,498, 6–19–62, Cl. 140—102.
Bechtold, Alwyn R. : *See*—
Cathey, Carrol M., Wade, and Bechtold. 3,042,425.
Bechtold, Arthur W., to Contactisol Inc. Sterile packaging. 3,032,182, 5–1–62, Cl. 206—63.2.
Bechtold, Ira C. : *See*—
Alexander, Ford I., and Bechtold. 3,057,197.
Beck, Alfred. Machine for making thread-cutting tools. 3,023,546, 3–6–62, Cl. 51—32.
Beck, Alfred C., and E. L. Chinnock, to Bell Telephone Laboratories, Inc. Apparatus for winding wire into a helix. 3,039,707, 6–19–62, Cl. 242—9.
Beck, Carl E. : *See*—
Ng, Clifford G., and Beck. 3,064,462.
Beck, Charles L. Automatic direction finder indicator. 3,028,599, 4–3–62, Cl. 343—113.
Beck, Cyrus. Great circle navigation computer. 3,049,299, 8–14–62, Cl. 235—188.
Beck, Edward G., to The Stolle Corp. Chambered sheet metal laminates and method of making. 3,018,543, 1–30–62, Cl. 29—157.3.
Beck, Edward G., to The Stolle Corp. Heat exchanger. 3,024,002, 3–6–62, Cl. 257—124.
Beck, Edwin H., to Manufacturers Supplies Co. Skiving machine. 3,043,126, 7–10–62 ,Cl. 69—9.5.
Beck, Eugene P., to United States Steel Corp. Tension device and brake assembly. 3,056,478, 10–2–62, Cl. 192—11.
Beck, Frederick D., to Blaw-Knox Co. Solvent extraction apparatus. 3,062,626, 11–6–62, Cl. 23—269.
Beck, Frederick R. : *See*—
Kaleba, Joseph J., and Beck. 3,066,202.
Beck, George W. : *See*—
Mathues, Thomas O., Beck, Davis, and Forward. 3,042,-137.
Beck, Harold J. : *See*—
Takacs, Andrew S., and Beck. 3,026,574.
Beck, Henry C. : *See*—
Mills, Ivor W., Beck, and Jezl. 3,042,708.
Beck, Henry N., to Dow Corning Corp. Method of grafting olefins onto organosilicon compounds by the use of ozone. 3,070,573, 12–25–62, Cl. 260—45.5.
Beck, Jacob H. Heat treating apparatus. 3,041,056, 6–26–62, Cl. 263—37.
Beck, James C., to Encino Engineering. Zoom lens. 3,063,-341, 11–13–62, Cl. 88—57.
Beck, John W., to International Business Machines Corp. Non-saturating transistor circuit. 3,018,387, 1–23–62, Cl. 307—88.5.
Beck, John W., to International Business Machines Corp. Variable impedance network for automatic gain control circuit. 3,032,704, 5–1–62, Cl. 323—66.
Beck, John W., to International Business Machines Corp. Automatic gain control circuits. 3,032,719, 5–1–62, Cl. 330—29.
Beck, Joseph E., and M. Binks. Coin-operated game. 3,044,-778, 7–17–62, Cl. 273—125.
Beck, Julius S. : *See*—
Andresen, Aif S., Gearing, and Beck. 3,062,568.
Beck, Kurt, and O. Roelen, to Ruhrchemie Aktiengesellschaft. Process for the production of shaped parts of polyethylene. 3,026,570, 3–27–62, Cl. 18—55.
Beck, Martin A., and R. W. Kauffman, to Pittsburgh Plate Glass Co. Vacuum cup. 3,028,131, 4–3–62, Cl. 248—14.
Beck, Nick J., J. E. Leach, Jr., and H. R. Linderfelt. Pulse jet propulsion device and method of operating same. 3,024,597, 3–13–62, Cl. 60—35.6.
Beck, Paul W. : *See*—
Brockman, Frank G., Beck, and Matteson. 3,039,966.
Beck, Ralph F. : *See*—
Harris, Ernest S., and Beck. 3,056,526.
Beck, Renold R., and R. E. Rawski, to Sun Electric Corp. Battery charger and tester. 3,041,522, 6–26–62, Cl. 320—33.
Beck, Robert M., J. M. Mitchell, M. Palevsky, and S. Ruhman, to Packard-Bell Computer Corp. Digital differential analyzer. 3,029,023, 4–10–62, Cl. 235—152.
Beck, Robert M., and M. Palevsky, to Packard-Bell Computer Corp. Multiplexing sample and hold circuit. 3,059,228, 10–16–62, Cl. 340—179.
Beck, Robert W., to Jersey Production Research Co. Drag bit provided with constant jet nozzle standoff. 3,048,231, 8–7–62, Cl. 175—393.
Beck, Ronald D., and B. E. Kevelin, to General Motors Corp. Dielectric embossing process and apparatus. 3,047,451, 7–31–62, Cl. 156—219.
Beck, Russell R. : *See*—
Back, Alexander E., Beck, and Selin. 3,057,714.
Beck, Stanley H., to Abbott Laboratories. Heparin color stability. 3,039,931, 6–19–62, Cl. 167—74.
Beck, Thomas M., and H. Sorstokke, to Stauffer Chemical Co. Process for producing trialkyl phosphites. 3,068,267, 12–11–62, Cl. 260—461.
Beck, Walther : *See*—
Bodo, Gerhard, Diskus, and Beck. 3,044,929.
Jankowsky, Edward J., Beck, and Williams. 3,034,340.
Keller, Daniel F., and Beck. 3,040,642.
Beck, Walter, and A. Hallene, to Montgomery Elevator Co. Mechanism for operating an elevator hatch door and interlock. 3,033,317, 5–8–62, Cl. 187—52.
Beck, William R., and L. D. Hagenbook, to Goodman Mfg. Co. Drive system for shuttle cars. 3,053,040, 9–11–62, Cl. 214—83.36.
Becka, Paul N., to Tru-Fit Screw Products Corp. Switch. 3,017,476, 1–16–62, Cl. 200—104.
Becka, Paul N. Pedestrain control signal and circuit. 3,054,-089, 9–11–62, Cl. 340—105.
Beckadolph, Richard, to Continental Gummi-Werke Aktiengesellschaft. Method of making pneumatic tires. 3,016,-320, 1–9–62, Cl. 156—123.

Beckadolph, Richard, to Continental Gummi-Werke Aktiengesellschaft, Firma. Vehicle tire. 3,034,557, 5–15–62, Cl. 152—340.

Beckadolph, Richard, and W. Niclas, to Continental Gummi-Werke Aktiengesellschaft. Tire building machine. 3,016,-321, 1–9–62, Cl. 156—402.

Beckadolph, Richard, and W. Niclas, to Continental Gummi-Werke Aktiengesellschaft. Transmission belt of plastic material. 3,068,710, 12–18–62, Cl. 74—237.

Becke, Friedrich: *See*—
Stadler, Robert, and Becke. 3,048,621.

Becke, Friedrich. Process of making chlorobenzenes. 3,043,-887, 7–10–62, Cl. 260—650.

Becke, Friedrich, and K. Wick, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of dilactams and of polyamides capable of being prepared therefrom. 3,037,-991, 5–29–62, Cl. 260—78.

Becke, Friedrich, and K. Wick, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Process for the production of expandable polyamides. 3,041,294, 6–26–62, Cl. 260—2.5.

Becke, Friedrich, and K. Wick, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of expanded polyamides. 3,060,135, 10–23–62, Cl. 260—2.5.

Becke, Friedrich, and K. Wick, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Process for the production of expanded polyamides which contain oxamic acid or oxamic acid esters. 3,065,189, 11–20–62, Cl. 260—2.5.

Becke, Margot, to Olin Mathieson Chemical Corp. Amino derivatives of pyrophosphoric acid and process of making the same. 3,048,630, 8–7–62, Cl. 260—545.

Beckel, John L. Handling bulk materials by railroad car. 3,016,846, 1–16–62, Cl. 105—270.

Beckenbach, Karl. Apparatus for removing burnt or calcined material from furnaces. 3,064,960, 11–20–62, Cl. 263—29.

Becker, Alvin C., to himself and C. Becker. Snow traction unit. 3,059,711, 10–23–62, Cl. 180—7.

Becker, August, to L. L. Willard. Nozzle shutoff gate or valve for all fluid media and pressures. 3,023,775, 3–6–62, Cl. 137—553.

Becker, Bernard A., to Wallace & Tiernan Inc. Pyrazolidine-quinazolone therapeutic composition. 3,060,090, 10–23–62, Cl. 167—65.

Becker, Bernard B.: *See*—
Boyajian, Robert S., and Becker. 3,051,265.

Becker, Byron H.: *See*—
Clements, William R. 3,062,342.

Becker, Carl: *See*—
Wegmann, Jacques, and Becker. 3,020,166.

Becker, Carl H., to Western Geophysical Co. of America. Method of geophysical exploration. Re. 25,204, 7–24–62, Cl. 181—5.

Becker, Catherine: *See*—
Becker, Alvin C. 3,059,711.

Becker, Charles W.: *See*—
Mod, William A., and Becker. 3,059,998.

Becker & Co. Ltd.: *See*—
Boughton, George J., Dalrymple, and Taylor. 3,044,890.

Becker, Dale F., to Sangamo Electric Co. Varhour meter. 3,024,416, 3–6–62, Cl. 324—141.

Becker, Edward J., and P. P. Lemanski, to Olin Mathieson Chemical Corp. 16α-fluoro-4-androsten-17α-ol-3-one and esters thereof. 3,059,000, 10–16–62, Cl. 260—397.4.

Becker, Erwin: *See*—
Winkler, Alfred, and Becker. 3,069,969.

Becker, Erwin W. A. Process for the production of water or hydrogen having an increased deuterium content. 3,036,-891, 5–29–62, Cl. 23—204.

Becker, Ewald G., and T. Wieske, to Lever Brothers Co. Process for improving frying fats and the resulting composition. 3,015,566, 1–2–62, Cl. 99—123.

Becker, Floyd K., to Bell Telephone Laboratories, Inc. Monaural-binaural transmission of sound. 3,022,378, 2–20–62, Cl. 179—1.

Becker, Foster G. Tractor construction. 3,066,341, 12–4–62, Cl. 15—93.

Becker, George D., to Nordberg Mfg. Co. Hydraulic release for gyratory crushers and the like. 3,038,670, 6–12–62, Cl. 241—30.

Becker, George D., and D. A. Cheyette, to Nordberg Mfg. Co. Mill feeder for large material. 3,030,034, 4–17–62, Cl. 241—33.

Becker, Gerhard, to Anker-Werke Aktiengesellschaft. Item counter for cash registers and other business machines. 3,056,547, 10–2–62, Cl. 235—7.

Becker, Gerhard, to Anker-Werke Aktiengesellschaft. Control apparatus for cash registers and other business machines. 3,061,184, 10–30–62, Cl. 235—7.

Becker, Gerhard, to Anker-Werke Aktiengesellschaft. Change-computing cash register. 3,066,861, 12–4–62, Cl. 235—2.

Becker, Gerhard, and E. Borgmann, to Anker-Werke A.G. Change computing apparatus in business machines. 3,049,-288, 8–14–62, Cl. 235—2.

Becker, Hal C.: *See*—
Corrigan, Robert E., and Becker. 3,060,795.

Becker, Hans, to Toussaint & Hess hydraulische Hebezeugfabrik G.m.b.H. Fifth-wheel coupling for tractor-trailers. 3,034,805, 5–15–62, Cl. 280—434.

Becker, Hans, to Toussaint & Hess Hydraulische Hebezeugfabrik G.m.b.H. Coupling for vehicles, especially for tractors. 3,063,738, 11–13–62, Cl. 280—434.

Becker, Helmut, and R. Mees, to Ernst Leitz, G.m.b.H. Motion picture projector. 3,063,651, 11–13–62, Cl. 242—55.12.

Becker, Johannes, to Optische Industrie "de Oude Delft," N.V. Optical imagery system. 3,065,670, 11–27–62, Cl. 88—57.

Becker, John, and C. H. Wagman. Rotary hedge trimmer. 3,050,854, 8–28–62, Cl. 30—276.

Becker, John E. Fluid couplings. 3,045,429, 7–24–62, Cl. 60—54.

Becker, John E. Fluid couplings. 3,045,430, 7–24–62, Cl. 60—54.

Becker, John E. Mechanical clutches. 3,045,790, 7–24–62, Cl. 192—38.

Becker, Joseph C., to American Can Co. Machine for sealing cartons. 3,015,198, 1–2–62, Cl. 53—387.

Becker, Karl V., and J. S. Lyness, to United Shoe Machinery Corp. Gaging mechanisms. 3,061,854, 11–6–62, Cl. 12—55.

Becker, Kenneth F., to Kenbeck Co. Pressure clips for ceiling members in corner molding. 3,038,572, 6–12–62, Cl. 189—88.

Becker, Lyman E. Push button actuators for flush valves. 3,055,630, 9–25–62, Cl. 251—45.

Becker, Myron, to Socony Mobil Oil Co., Inc. Acetylenic glycol deicer. 3,020,136, 2–6–62, Cl. 44—77.

Becker, Myron, to Socony Mobil Oil Co., Inc. 1,3-diaminobutane deicer. 3,031,283, 4–24–62, Cl. 44—72.

Becker, Orlien N., to Minneapolis-Honeywell Regulator Co. High-performance electromagnetic transducer. 3,047,777, 7–31–62, Cl. 317—123.

Becker, Otto A. Seat comprising a plurality of individually adjustable back members. 3,059,971, 10–23–62, Cl. 297—353.

Becker, Philip D., to United-Carr Fastener Corp. Reel assembly fastener. 3,036,793, 5–29–62, Cl. 242—118.6.

Becker, Richard D., to International Minerals & Chemical Corp. Refractory material. 3,023,114, 2–27–62, Cl. 106—56.

Becker, Richard M., to Ibis Enterprises Ltd. Catalyst spray gun and method of spraying resins. 3,066,874, 12–4–62, Cl. 239—41.

Becker, Robert A., to United States of America, Navy. Photoelectric influence detector and arming device for torpedoes. 3,026,805, 3–27–62, Cl. 102—70.2.

Becker, Robert E., to Logansport Machine Co. Adjustable center for chuck. 3,057,237, 10–9–62, Cl. 82—33.

Becker, Robert E. Pattern for installing door jamb. 3,059,-341, 10–23–62, Cl. 33—197.

Becker, Rodger F., to Aero-Motive Mfg. Co. Safety arm for cord reel. 3,021,089, 2–13–62, Cl. 242—107.3.

Becker, Rodger F., to Aero-Motive Mfg. Co. Signal lock. 3,021,090, 2–13–62, Cl. 242—107.7.

Becker, Rodger F., to Aero-Motive Mfg. Co. Cord reel with secondary load support. 3,066,885, 12–4–62, Cl. 242—107.4.

Becker, Rudolf, to Gesellschaft fur Linde's Eismaschinen Aktiengesellschaft. Pre-purifying stage for gas liquefaction plants. 3,046,750, 7–31–62, Cl. 62—13.

Becker, Rudolf, to Telefunken G.m.b.H. Mechanically rigid counterpoise structure. 3,048,845, 8–7–62, Cl. 343—830.

Becker, Rudolf, to Gesellschaft fur Linde's Eismaschinen Aktiengesellschaft. Rectification of liquid mixtures boiling at low temperatures. 3,057,168, 10–9–62, Cl. 62—29.

Becker, Sam B., to Standard Oil Co. Production of organophosphorus compounds. 3,036,132, 5–22–62, Cl. 260—606.5.

Becker, Stephen P.: *See*—
Wheaton, Scott R., and Becker. 3,036,147.

Becker, Stephen P., to Fargo Mfg. Co., Inc. Aerial cable support. 3,055,623, 9–25–62, Cl. 248—61.

Becker, Sylvan J., and R. J. Settimi, to Borg-Warner Corp. Transmission. 3,017,977, 1–23–62, Cl. 192—48.

Becker, Wallace E.: *See*—
Krahnke, Harold C., and Becker. 3,033,754.

Becker, Willi, to Arthur Pfeiffer G.m.b.H. Molecular pumps. 3,020,102, 2–6–62, Cl. 308—77.

Becker, William E., to Bacon Felt Co. Composite polishing pad and method for making same. 3,038,279, 6–12–62, Cl. 51—195.

Beckert, Ernst, Nadelfabrik Commandit-Gesellschaft: *See*—
Wiederhut, Wolfgang, and Danhammer. 3,031,867.

Beckett, James A., L. C. Rose, and J. T. Hamrick, to Thompson Ramo Wooldridge Inc. Rocket fuel composition. 3,054,252, 9–18–62, Cl. 60—35.4.

Beckett, John C.: *See*—
Hicks, William W., and Beckett. 3,070,100.

Beckett, John C., to Wesix Electric Heater Co. Ion collecting and measuring apparatus. 3,038,118, 6–5–62, Cl. 324—33.

Beckett, Joseph K. Pressure regulator. 3,021,865, 2–20–62, Cl. 137—270.

Beckett, Joseph K., to Western Gulf Oil Co. Apparatus for periodically back flushing a well. 3,062,290, 11–6–62, Cl. 166—68.

Beckett, Leo G.: *See*—
Baker, Lee H. D., and Beckett. 3,025,683.

Beckett, Leo G., and J. T. Woods, to Whirlpool Corp. Home appliance. 3,022,550, 2–27–62, Cl. 20—69.

Beckham, Oscar S., to Caterpillar Tractor Co. Cam follower and spacer for engine valves. 3,025,841, 3–20–62, Cl. 123—90.

Beckley, Arthur H., to Moore Dry Kiln Co. Ventilator control for lumber kilns. 3,033,465, 5–8–62, Cl. 236—44.

Beckley, Arthur H., to Moore Dry Kiln Co. Automatic transfer means for off-bearing assembly. 3,038,585, 6–12–62, Cl. 198—32.

Beckman, George H., and J. Robert, to Abbott Coburn Foundation. Machine for making metal covered boards. 3,034,-199, 5–15–62, Cl. 29—33.

Beckman Instruments, Inc.: *See*—
Arthur, Edwin P. 3,032,429.
Arthur, Edwin P., and Donner. 3,070,539.
Arthur, Edwin P., and Leonard. 3,049,118.
Brown, J. Herbert. 3,039,008.
Brown, J Herbert. 3,051,914.
Chien, Kun L., Ergin, and Ling. 3,042,007.
Chisholm, Hamilton C., and Fujishige. 3,054,001.
Colburn, David S. 3,031,578.
Del Duca, Anthony, and Kirk. 3,065,364.
Diamond, Albert. 3,042,820.
Donner, Walter, and Carle. 3,062,037.
Durrum, Emmett L. 3,062,731.
Fletcher, Taylor C., Brown, Chapin, and Preston. 3,068,450.
Fletcher, Taylor C., and Silva. 3,027,079.
Gordon, James F. 3,067,935
Greene, Malbone W., and Haagen-Smit. 3,026,472.
Hinrichs, Karl. 3,027,520.
Hinrichs, Karl, and White. 3,058,068.
James, Richard P., and Nolan. 3,070,540.
Kirch, Robert J. 3,057,014.
Liston, Max D. 3,025,745.
Pickels, Edward G., and Turner. 3,041,921.
Preston, Howard G. 3,067,940.
Rathje, David S. 3,034,047.
Savage, Lester D., Jr. 3,060,744.
Silva, Lawrence M. 3,027,542.
Spracklen, Stanford B. 3,028,470.
Spracklen, Stanford B. 3,057,184.
Thayer, Louis C., and Greene. 3,031,882.
Thomason, Thomas H. 3,054,060.
Tomita, Nob. 3,031,035.
Williams, Fred G., Jr. 3,050,239.
Wilson, Ray I., Greene, and Haagen-Smit. 3,028,317.
Wilson, Ray I., and Haagen-Smit. 3,042,495.

Beckman, Joel M., Jr.: *See*—
Anthony, Russell W., and Beckman. 3,064,809.

Beckman, Joel M., Jr., to National Broach & Machine Co. Apparatus for sorting and identifying sources of workpieces. 3,021,006, 2–13–62, Cl. 209—111.5.

Beckman, John B., to Minneapolis-Honeywell Regulator Co. Instrument illumination. 3,033,155, 5–8–62, Cl. 116—129.

Beckman, William R., and A. E. Kremiller, to Spotnails, Inc. Pneumatically operated fastener driving machine. 3,056,-964, 10–9–62, Cl. 1—44.4.

Becknell, Raleigh, to The Conway Clutch Co. Friction clutch. 3,021,932, 2–20–62, Cl. 192—85.

Becknell, Raleigh, to The Conway Clutch Co. Friction clutches. 3,048,248, 8–7–62, Cl. 192—85.

Becknell, Raleigh, to The Conway Clutch Co. Friction clutches. 3,065,832, 11–27–62, Cl. 192—85.

Beckner, Bernard E., deceased (by Security First National Bank of Los Angeles, executor), and D. L. Druckey, to Thompson Ramo Wooldridge Inc. Magnetic transducing apparatus. 3,045,219, 7–17–62, Cl. 340—174.1.

Beckner, Bernard E., deceased (by Security First National Bank of Los Angeles, executor), J. H. Irving, and D. L. Druckey, to Thompson Ramo Wooldridge Inc. Magnetic transducing apparatus. 3,062,922, 11–6–62, Cl. 179—100.2.

Beckner, Carl K., Sr.: *See*—
Gaspar, Joseph J., and Beckner. 3,034,563.

Beckner, Wilbur R., Jr.: *See*—
Berkey, Harry L., Billow, and Beckner. 3,060,467.

Beckstrom, Bert F. Gas turbine. 3,025,037, 3–13–62, Cl. 253—69.

Becktel, Jack M.: *See*—
Fritz, Earle, Bornfleth, and Becktel. 3,028,403.

Beckwith-Arden Inc.: *See*—
Gaquin, John H. 3,055,028.
Gaquin, John H., and Morse. 3,068,130.
Morse, Ronald W., and Gaquin. 3,027,867.

Beckwith, Howard W., and R. E. McCoy, to General Electric Co. Control system. 3,063,311, 11–13–62, Cl. 77—32.2.

Beckwith, Sterling, to Conch International Methane Ltd. Tank for storing low boiling temperature liquids. 3,018,018, 1–23–62, Cl. 220—63.

Becton, Dickinson and Co.: *See*—
Dickinson, Fairleigh S., Jr. 3,017,883.
Eckhart, Edgar O. 3,055,363.
Heaton, Walter H., and Gaquin. 3,035,292.
Hein, George N. 3,045,673.

Becue, Colette, to Pechiney, Compagnie de Produits Chimiques et Electrometallurgiques. Process for manufacturing aluminum oxide. 3,055,736, 9–25–62, Cl. 23—141.

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Sproson, Kenneth W. 3,046,655.

Bedenk, William T., to The Procter & Gamble Co. Culinary mixes. 3,037,864, 6–5–62, Cl. 99—94.

Beder, Samuel L., to Toymaster Products Co., Inc. Box construction. 3,027,060, 3–27–62, Cl. 229—16.

Bedford, Burnice D., and L. J. Goldberg, to General Electric Co. Direct current static electric switch. 3,042,838, 7–3–62, Cl. 317—52.

Bedford, Leslie H., to The English Electric Co. Ltd. Accelerometers. 3,057,208, 10–9–62, Cl. 73—517.

Bedick, Robert, to Merit Associates, Inc. Swimming pool construction and related method. 3,020,560, 2–13–62, Cl. 4—172.

Bedil, Mustafa F., and H. H. Begent, to The English Electric Co. Ltd. Electric power transformers. 3,025,482, 3–13–62, Cl. 336—5.

Bednarz, Stanley E.: *See*—
Baars, William E., and Bednarz. 3,037,528.

Bedouet, Claude F.: *See*—
De Michelis, Raymond. 3,039,398.

Beduhn, Daniel R., and R. E. Wernecke, to Manitowoc Engineering Corp. Distillation apparatus and a method of operating same. 3,020,214, 2–6–62, Cl. 202—181.

Bee Line Co.: *See*—
McWhorter, Fred A. 3,036,467.

Beebe Bros.: *See*—
Beebe, Dan D. 3,049,338.
Selset, Ronald S. 3,062,505.

Beebe, Burke A.: *See*—
Grenley, Dallas G., Beebe, and Townsend. 3,061,562.

Beebe, Clarence W., M. L. Happich, J. Naghski, and W. Windus, to United States of America, Agriculture. Rapid tannage of sole leather. 3,027,221, 3–27–62, Cl. 8—94.33.

Beebe, Dan D., to Beebe Bros. Ratchet hoist. 3,049,338, 8–14–62, Cl. 254—167.

Beebe, Emmett R., and J. Blokland, to S & C Electric Co. Manual switchgear. 3,055,996, 9–25–62, Cl. 200—50.

Beebe, Herbert R., to American Doll & Toy Corp. Spray bath. 3,015,828, 1–9–62, Cl. 4—148.

Beebe, Herbert R., to American Doll & Toy Corp. Eye for dolls. 3,043,051, 7–10–62, Cl. 46—166.

Beebe, Herbert R., to American Doll & Toy Corp. Doll's head and body joint. 3,052,061, 9–4–62, Cl. 46—173.

Beebe, John N., and R. A. Frykland, to Raytheon Co. Sound ranging systems. 3,036,289, 5–22–62, Cl. 340—3.

Beebee, Frederick L., to Selwyn Pacific Co. Fluid control valve. 3,058,719, 10–16–61, Cl. 251—273.

Beech Aircraft Corp.: *See*—
Scott, Orin W. 3,029,876.

Beech, Austin S., to Foundry Equipment Ltd. Foundry sand rammers. 3,024,505, 3–13–62, Cl. 22—36.

Beech, Reginald: *See*—
Backhoff, Harold A. W., and Beech. 3,031,952.

Beechaft Research Laboratories Ltd.: *See*—
Doyle, Frank P., Nayler, and Rolinson. 3,047,467.
Lein, Joseph, and Cheney. 3,024,168.
Mehta, Minco D., and Catlin. 3,062,870.

Beecher, David W.: *See*—
Atanasoff, H. B., Beecher, Long, Tabler, Macrum, and Selzer. 3,033,366.

Beecher, Jack E., R. J. Kallal, C. M. Sayre, Jr., and I. M. Singer, Jr., to E. I. Du Pont de Nemours and Co. Process for producing prilled urea of low biuret content 3,025,571, 3–20–62, Cl. 18—47.2.

Beecher, John D., to General Motors Corp. Antifriction bearings. 3,025,114, 3–13–62, Cl. 308—183.

Beech-Nut Life Savers, Inc.: *See*—
Koerner, Howard, Witzel, and Barshied. 3,052,552.

Beehler, Vernon D.: *See*—
Noble, Stuart D. 3,069,510.

Beek, Joseph A., Jr., and H. L. Herold, to Alwac International. Calculating device. 3,029,025, 4–10–62, Cl. 235—167.

Beeker, James O., and J. C. Tulloss, to Western Electric Co., Inc. Splice-sleeve assemblies and methods of making the same. 3,035,114, 5–15–62, Cl. 174—84.

Beekhuis, Herman A.: *See*—
Sullivan, Frederick W. 3,062,618.

Beekhuis, Herman A. Conversion of metal chlorides to the corresponding metal nitrates. 3,062,617, 11–6–62, Cl. 23—102.

Beekhuis, Herman A. Conversion of metal chlorides to corresponding metal nitrates. 3,062,619, 11–6–62, Cl. 23—102.

Beekman, Stewart M., to Reheis Co., Inc. Antacid composition. 3,017,324, 1–16–62, Cl. 167—55.

Beem, Donald W., and F. H. Wallace, to North American Aviation, Inc. Ejection seat. 3,020,011, 2–6–62, Cl. 244—141.

Beeman, Lyle. Pressure switch. 3,042,770, 7–3–62, Cl. 200—83.

Beemer, Paul K.: *See*—
Magarian, Gerald M., and Beemer. 3,063,388.

Beemer, Paul K., and J. W. Morris, to Preco Inc. Temperature regulation for cargo carriers and the like. 3,015,217, 1–2–62, Cl. 62—186.

Beemer, Robert J.: *See*—
Blackman, Calvin C., and Beemer. 3,056,594.

Beer, Charles J., to Ametek, Inc. Adjustable graduations for instrument dial. 3,046,931, 7–31–62, Cl. 116—129.

Beer, Emanuel E., to General Precision, Inc. Rotary motion storage mechanism. 3,028,083, 4–3–62, Cl. 235—61.

Beer, Eugene J.: *See*—
Reed, George G., Jr., and Beer. 3,068,090.

Beer, Franz: *See*—
Müller, Josef, and Beer. 3,036,885.

Beer, Franz, and J. Müller, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Process for the production of peroxymonophosphoric acid. 3,036,887, 5–29–62, Cl. 23—165.

Beer, Dr. Hans: *See*—
Weber, Alexander. 3,064,304.

Beereboom, John J., to Chas. Pfizer & Co., Inc. Novel derivative of the tetracycline antibiotics. 3,038,908, 6–12–62, Cl. 260—346.2.

Beereboom, John J., H. H. Rennhard, and C. R. Stephens, Jr., to Chas. Pfizer & Co., Inc. Halogenated tetracycline derivatives and processes for their preparation. 3,043,875, 7–10–62, Cl. 260—559.

Beereboom, John J., and K. Butler, to Chas. Pfizer & Co., Inc. Hydrolysis of 2-decarboxamido-2-cyano-6-deoxy-tetracycline derivatives. 3,069,467, 12–18–62, Cl. 260—559.

Beerhalter, Joseph F.: *See*—
Beerhalter, Thelma D. and J. F. 3,027,563.

Beerhalter, Thelma D. and J. F. Eye protector. 3,027,563, 4–3–62, Cl. 2—174.

Beerli, Fridolin, to Paliz-Holding A.G. Needle guard for knitting machines. 3,024,632, 3–13–62, Cl. 66—60.

Beerli, George A., to Congoleum-Nairn Inc. Web splicer. 3,024,157, 3–6–62, Cl. 154—42.3.

Beerli, Karl, to Spindel-Motoren-und Maschinenfabrik A.G. Bearing assembly for textile machinery spindles. 3,049,860, 8–21–62, Cl. 57—135.

Beermann, Claus, and H. Bestian, to Hercules Powder Co. Process for the polymerization of olefins with a methyl titanium trihalide catalyst. 3,037,971, 6–5–62, Cl. 260—93.7.

Beermann, Erich: *See*—
Schneermann, Alfred, Beermann, and Knecht. 3,040,862.

Beernaert, Claude: *See*—
Gauthron, Maurice, and Beernaert. 3,053,976.

Beers, George L., to Radio Corp. of America. Clock controlled receiver. 3,026,411, 3–20–62, Cl. 250—20.

Beers, Joseph L., to Radio Corp. of America. Apparatus for orienting and inserting electrical devices. 3,043,446, 7–10–62, Cl. 214—1.

Beers, Kenneth H., to North American Aviation, Inc. Impedance measuring apparatus. 3,025,466, 3–13–62, Cl. 324—62.

Beers, Rollo O., to Continental Boiler and Sheet Iron Works. Anti-collision system. 3,044,418, 7–17–62, Cl. 105—163.

Beesch, Samuel C.: *See*—
Pindzola, Daniel, Nazarewicz, and Beesch. 3,056,247.

Beeskow, Bruno E. A. H., to Daimler-Benz Aktiengesellschaft. Brake installation. 3,035,666, 5–22–62, Cl. 188—217.

Beeskow, Bruno E. A. H., to Daimler-Benz Aktiengesellschaft. Clutch actuating and control arrangement. 3,045,789, 7–24–62, Cl. 192—3.5.

Beesley, James P., to International Business Machines Corp. Synchronized time system. 3,026,481, 3–20–62, Cl. 328—130.

Beesley, James P., to International Business Machines Corp. Binary counter. 3,063,629, 11–13–62, Cl. 235—92.

Beeson, Eric J. G., and J. W. de L. Nichols, to A.E.I. Lamp and Lighting Co. Ltd. Circuit arrangement for operating electric discharge lamp. 3,035,207, 5–15–62, Cl. 315—267.

Beeson, Harry R. Gauging device. 3,021,603, 2–20–62, Cl. 33—174.

Beeson, Robert J.: *See*—
Apel, John H., and Beeson. 3,015,257.
Apel, John H., and Beeson. 3,015,258.
Apel, John H., and Beeson. 3,015,259.
Apel, John H., and Beeson. 3,051,062.

Beeston, John T., Jr. Electronic thermometer. 3,036,464, 5–29–62, Cl. 73—342.

Beetle, Carl N., Plastics Corp.: *See*—
Bryan, Richard C. 3,026,609.
Wakefield, Walter H. 3,026,610.

Beeton, Thomas B.: *See*—
Hoffman, Daniel J. N., and Beeton. 3,015,852.

Beets, Muus G. J.: *See*—
Enninga, Robert, and Beets. 3,045,028.

Beever, Jack, to Jerrold Electronics Corp. Broadband sheet antenna. 3,020,550, 2–6–62, Cl. 343—795.

Beevis, Frederick J., to Perfection Steriliser Co. Ltd. Cooling of liquids and containers therefor. 3,029,616, 4–17–62, Cl. 62—381.

Beevis, Frederick J., to Perfection Steriliser Co. Ltd. Sterilization of milk. 3,039,884, 6–19–62, Cl. 99—216.

Beffa, Fabio, P. Dussy, and G. Schetty, to J. R. Geigy, A.-G. Formozane dyes containing a halogen-pyrimidyl substituent. 3,068,219, 12–11–62, Cl. 260—146.

Be-Ge Mfg. Co.: *See*—
Bennett, Robert N. and Vaughan. 3,051,091.
White, John A., Jr. 3,050,883.

Begell, William: *See*—
Hovemeyer, William E., Gutstein, and Begell. 3,035,353.

Begent, Harry H.: *See*—
Bedil, Mustafa F., and Begent. 3,025,482.

Beggs, Donald, J. Huebler, D. B. Sabin, J. C. Scarlett, and J. J. Turin, to Midland-Ross Corp. Convective heat transfer furnace and method. 3,021,236, 2–13–62, Cl. 148—13.

Beggs, Donald, and C. Cone, to Midland-Ross Corp. Contacting of aggregate materials with fluids. 3,038,790, 6–12–62, Cl. 23—281.

Beggs, James E., to General Electric Co. Method of making a thermionic cathode. 3,041,209, 6–26–62, Cl. 117—217.

Beggs, James E., to General Electric Co. High temperature electron discharge device and apparatus. 3,050,651, 8–21–62, Cl. 313—15.

Beggs, John C., to United Aircraft Corp. Temperature control valve. 3,028,096, 4–3–62, Cl. 236—80.

Beggs, Robert K., and G. G. Ferling, to P. R. Mallory & Co., Inc. Metal bodies having continuously varying physical characteristics and method of making the same. 3,069,757, 12–25–62, Cl. 29—182.1.

Beggs, Robert R. Self-propelled golf bag cart. 3,059,713, 10–23–62, Cl. 180—13.

Beghelli, Benito, to Montecatini, Societa Generale per l'Industria Mineraria e Chimica. Hosiery articles knitted from polypropylene yarn 3,025,689, 3–20–62, Cl. 66—202.

Begian, Mehrin, and C. E. Miesiak, to Holley Carburetor Co., Hydraulic resistor. 3,026,890, 3–27–62, Cl. 137—56.

Begley, Richard T., and L. L. France, to Westinghouse Electric Corp. High strength niobium base alloys. 3,027,255, 3–27–62, Cl. 75—174.

Begovich, Nicholas A., to Hughes Aircraft Co. Two-pulse MTI radar system. 3,046,547, 7–24–62, Cl. 343—7.7.

Begovich, Nicholas A., and N. H. Enenstein, to Hughes Aircraft Co. Radar scanning system. 3,017,630, 1–16–62, Cl. 343—17.1.

Beguin, Albert E., to Eastman Kodak Co. Apparatus for applying magnetic sound track. 3,062,181, 11–6–62, Cl. 118—407.

Beguin, Rene, to Mefina S.A. Control device for sewing machine. 3,070,673, 12–25–62, Cl. 200—46.

Béguin, Richard F., to ISI, Inc. Annunciator system. 3,029,-421, 4–10–62, Cl. 340—213.

Begun, Leonid J., T. D. Paradowsky, and J. B. Gehman, to Clevite Corp. Magnetic oscillography. 3,032,765, 5–1–62, Cl. 346—74.

Behlen, Walter D. Sill assembly for corrugated walls. 3,033,331, 5–8–62, Cl. 189—34.

Behlen, Walter D. Means for unloading stored material. 3,045,718, 7–24–62, Cl. 214—17.

Behlen, Walter D. Corrugated panel making machine and method. 3,059,685, 10–23–62, Cl. 153—77.

Behlen, Walter D. Large span building covering unit. 3,064,-771, 11–20–62, Cl. 189—34.

Behles, Franz G. F., to Daimler-Benz Aktiengesellschaft. Brake shoe construction. 3,047,100, 7–31–62, Cl. 188—78.

Behles, Franz G. F., to Daimler-Benz Aktiengesellschaft. Shock-absorbing spring strut, particularly for motor vehicles. 3,047,284, 7–31–62, Cl. 267—64.

Behles, Franz G. F., to Daimler-Benz Aktiengesellschaft. Equalizing spring system for vehicles, especially motor vehicles. 3,050,316, 8–21–62, Cl. 280—104.

Behles, Michael M.: *See*—
Miller, Herbert J., Behles, and Clark. 3,054,633.

Behling, Clarence R. Product tray conveying apparatus. 3,062,395, 11–6–62, Cl. 214—310.

Behm, Harold J.: *See*—
Fannon, Robert D., Jr., and Behm. 3,066,208.

Behm, William F.: *See*—
Thurstone, Granger B., and Behm. 3,063,706.

Behmenburg, Hans: *See*—
Süs, Klüpfel, Neugebauer, Tomanek, and Behmenburg. 3,041,165.

Behn, Robert A., to Socony Mobil Oil Co., Inc. Method of producing "duo-sol" raffinate having improved color. 3,028,315, 4–3–62, Cl. 196—14.1.

Behning, Henry G., to Aurora Corp. of Illinois. Drop type piano action. 3,040,614, 6–26–62, Cl. 84—240.

Behnisch, Robert: *See*—
Helferich, Burckhardt, Behnisch, and Wirth. 3,048,518.

Behnke, Arnold F., to Kay-Brunner Steel Products, Inc. Spring suspension for dual axles for trailers. 3,033,589, 5–8–62, Cl. 280—104.5.

Behnke, Reinhold, to Pfanstiehl Laboratories, Inc. Sequestrant derived from corn syrup and process for making the same. 3,022,343, 2–20–62, Cl. 260—528.

Behr, Eldon A., to Chapman Chemical Co. Preservative composition. 3,049,471, 8–14–62, Cl. 167—38.7.

Behr, Henry, to Kennedy Van Saun Mfg. & Eng. Corp. Hydraulic suspension system for gyratory crusher shafts. 3,057,563, 10–9–62, Cl. 241—37.

Behr, Karl-Gunter: *See*—
Reiche, Wilhelm, Behr, and Schacht. 3,027,819.

Behrend, Herbert. Explosive actuated tool. 3,044,071, 7–17–62, Cl. 1—44.5.

Behrends, Jurgen: *See*—
Schweitzer, Otto, and Behrends. 3,051,755.

Behrends, Jurgen, O. Schweitzer, W. Kern, and H. Hopff, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Process for the production of eupolyoxymethylenes with sulfur catalyst. 3,020,264, 2–6–62, Cl. 260—67.

Behrendt, Herman C. Apparatus for cleaning a bowling pin. 3,036,320, 5–29–62, Cl. 15—21.

Behrens, Albert, K.-H. Kolzow, and P.-M. Brandt, to Willy H. Schlieker, K.G. Ammunition hoists. 3,066,761, 12–4–62, Cl. 187—1.

Behrens, Alfred E. Method of and apparatus for reloading shells. 3,057,247, 10–9–62, Cl. 86—25.

Behrens, Curtis E., to Borg-Warner Corp. Pump. 3,041,980, 7–3–62, Cl. 103—150.

Behrens, Heinz. Apparatus for mechanical treatment of material. 3,044,623, 7–17–62, Cl. 209—275.

Behrens, Herbert C., and G. C. Turnauer, to American Can Co. Paper plate dispenser. 3,065,878, 11–27–62, Cl. 221—41.

Behrens, Robert H. H. Amusement device. 3,057,305, 10–9–62, Cl. 105—150.

Behrens, Ulrich, and M. Ringpfeil, to Serum-Werke Bernburg, VEB. Process for enzymatic synthesis of dextran. 3,044,940, 7–17–62, Cl. 195—31.
Behrent, Lewis F.: *See*—
Selby, Myron C., Behrent, and Ries. 3,041,533.
Behringer, Alfred C.: *See*—
Zimmer, William G., Behringer, Hilgoe, and Sheffer. 3,039,387.
Behringer, Alfred C., to Michle-Goss-Dexter, Inc. Doctor blade mechanism. 3,017,828. 1–23–62, Cl. 101—157.
Behringer, Daniel T. Device for sterilizing and deodorizing toilet bowls. 3,023,427, 3–6–62, Cl. 4—228.
Behringwerke Aktiengesellschaft: *See*—
Gierer, Alfred, and Mundry. 3,052,606.
Schramm, Gerhard, and Mohr. 3,022,227.
Von Pölnitz, Wolfgang, Schwick, and Bickhard. 3,063,913.
Von Pölnitz, Wolfgang, Schwick, and Bickhard. 3,063,914.
Behrle, William L. Double nail unit. 3,019,686, 2–6–62, Cl. 85—10.
Behun, Eugene: *See*—
De Brosse, Kenneth L., and Behun. 3,025,680.
Behun, John D., to Wyandotte Chemical Corp. Process for preparing oxamidines. 3,018,289, 1–23–62, Cl. 260—296.
Behun, John D., to Wyandotte Chemicals Corp. Bispyrazylmethyldiketones. 3,068,231, 12–11–62, Cl. 260—250.
Behymer, Donald L., to Maico Electronics, Inc. Acoustical apparatus. 3,015,704, 1–2–62, Cl. 179—107.
Behymer, Oral C.: *See*—
Robbins, William K., and Behymer. 3,039,957.
Beich, Paul F., Co.: *See*—
Allkonis, Justin J., Hillman, and Olson. 3,062,660.
Beidler, Henry L.: *See*—
Liloia, George A., Jr., Crowe, and Beidler. 3,051,171.
Liloia, Gerald J., Crowe, and Beidler. 3,051,171.
Liloia, Gerald J., Crowe and Beidler. 3,053,253.
Beierbach, Walter, and E. Heinl, to Stuttgarter Karosseriewerk Reutter & Co. G.m.b.H. Locking mechanism for folding seats. 3,028,199, 4–3–62. Cl. 297—379.
Beierbach, Walter, and E. Heinl, to Stuttgarter Karosseriewerk Reutter & Co., G.m.b.H. Adjusting device for a folding back for a vehicle seat. 3,036,862, 5–29–62, Cl. 297—367.
Beierbach, Walter T., and S. K. von Sass, to Stuttgarter Karosseriewerk Reutter & Co. G.m.b.H. Adjustable hinge fitting for a seat with a movable back. 3,058,148, 10–16–62, Cl. 16—146.
Beiersdorf, P., & Co. A.-G.: *See*—
Fenselau, Alfred. 3,033,702.
Gerstmeier, Bernhard, Gradenwitz, and Grotkopp. 3,068,625.
Beigay, Jack M.: *See*—
Renshaw, William G., Bongartz, and Beigay. 3,019,090.
Beiler, Aaron P., to Sperry Rand Corp. Manure spreader. 3,069,172, 12–18–62. Cl. 275—6.
Beindorff, Arthur B.: *See*—
De Witt, Hobson D., and Beindorff. 3,023,184.
De Witt, Hobson D., and Beindorff. 3,039,982.
Beindorff, Arthur B., and H. D. De Witt, to Monsanto Chemical Co. Composition comprising solution of a synthetic linear condensation polyester in a toluate solvent and process for making. 3,039,983, 6–19–62, Cl. 260—31.2.
Beindorff, Arthur B., and H. D. De Witt, to Monsanto Chemical Co. Composition comprising solution of a synthetic linear condensation polyester in a nitrile solvent and process for making. 3,039,984, 6–19–62, Cl. 260—32.4.
Beindorff, Arthur B., and H. D. De Witt, to Monsanto Chemical Co. Composition comprising solution of a synthetic linear condensation polyester in a dihalogenated aliphatic ketone and process for making. 3,039,985, 6–19–62, Cl. 260—32.8.
Beindorff, Arthur B., and H. D. De Witt, to Monsanto Chemical Co. Alkyl salicylates and mixtures thereof with phenols as solvents for polyester compositions and method of preparing same. 3,042,645, 7–3–62, Cl. 260—32.2.
Beindorff, Arthur B., and H. D. De Witt, to Monsanto Chemical Co. Bis(2-chloroethyl)formal and mixtures thereof with phenols as solvents for polyester compositions and method of preparing same. 3,042,646, 7–3–62, Cl. 260—33.2.
Beindorff, Arthur B., and H. D. De Witt, to Monsanto Chemical Co. Polyester solution in an aromatic ether solvent. 3,063,956, 11–13–62, Cl. 260—32.6.
Beinfest, Sidney: *See*—
Adams, Phillip, and Beinfest. 3,070,598.
Beins, Berend M., and J. C. Dygert, to Shell Oil Co. Fluid-dynamic system using solids-bearing gas. 3,066,854, 12–4–62, Cl. 230—202.
Beintema, Chester D., to Hughes Aircraft Co. Encapsulated electroluminescent device. 3,061,755, 10–30–62, Cl. 313—108.
Beio Miftat: *See*—
Kotler, Max, Nicolosi, and Beio. 3,069,649.
Beirne, Henry, and K. R. Bell, to Westinghouse Electric Corp. Selector switch mechanism. 3,029,579, 4–17–62, Cl. 55—139.
Beiser, Leo, to Polarad Electronics Corp. Coaxial cavity tracking means and method. 3,020,500, 2–6–62, Cl. 333—82.
Beiser, Leo, and S. Schneider, to Polarad Electronics Corp. Coaxial cavity tracking means. 3,020,499, 2–6–62, Cl. 333—82.
Beiswenger, John L., to The Fulton Co. Direction signals for trailers. 3,060,407, 10–23–62, Cl. 340—84.
Bekey, Andrew, to Genisco, Inc. Hysteresis synchronous electric motor. 3,038,092, 6–5–62, Cl. 310—162.
Bekey, Andrew, to Genisco Inc. Synchronous motors of the hysteresis type. 3,068,373, 12–11–62, Cl. 310—162.
Bekey, Andrew, to Genisco, Inc. Hysteresis electric motor. 3,068,374, 12–11–62 Cl. 310—162.
Bekk & Kaulen, Dr., Chemische Fabrik G.m.b.H. *See*—
Kaulen, Robert. 3,046,156.
Bekker, Gerrit A.: *See*—
Roberts, Ralph R., and Bekker. 3,029,990.
Bekker, Mieczyslaw G. Multiple concentric chamber tire. 3,029,857, 4–17–62, Cl. 152—329.
Bel, Jan, to Naamlooze Vennootschap: Aagrunal, Chemische Fabriek. Fungicidal preparations and process for preparing the same. 3,067,090, 12–4–62, Cl. 167—22.
Beland, Walter H.: *See*—
Brendle, John A., and Beland. 3,055,045.
Belanger, William J.: *See*—
Price, Herbert P., and Belanger. 3,033,816–21.
Price, Herbert P., and Belanger. 3,033,803.
Price, Herbert P., and Belanger. 3,035,018.
Belau, Roger E., and N. S. Lind, to Fairmont Railway Motors, Inc. Fluid pressure-actuated tool. 3,045,648, 7–24–62, Cl. 121—34.
Belcastro, Louis E., to International Business Machines Corp. Multi-timing single shot using electronically selected constant circuits. 3,045,187, 7–17–62, Cl. 328—207.
Belcher, George E., Co.: *See*—
Patrick, William J. 3,038,184.
Belchis, Samuel, to General Precision, Inc. System for eliminating calibration errors. 3,044,059, 7–10–62, Cl. 343—8.
Belck, Lothar H., and K. G. Siedschlag, Jr., to E. I. du Pont de Nemours and Co. Filaments having improved crimp characteristics and products containing same. 3,039,524, 6–19–62, Cl. 28—82.
Belco Petroleum Corp.: *See*—
Alcorn, Irwin W., Graham, and Christenson. 3,054,267.
Belcove, Allan S.: *See*—
Menolasino, Nicholas J., and Belcove. 3,032,179.
Menolasino, Nicholas J. and D. 3,031,819.
Menolasino, Nicholas J. and D. 3,036,703.
Belden Mfg. Co.: *See*—
Hammer, Warren, and Sudds. 3,027,287.
Huth, Carl M. 3,029,406.
Schelke, Robert K. 3,049,946.
Schelke, Robert K. 3,051,774.
Timmons, Frank E. 3,032,604.
Belden, Perry. Chlorinator for marine toilets with combined beater and syphon. 3,044,077, 7–17–62, Cl. 4—10.
Belden, Sarah H.: *See*—
Snider, Orvill E., Belden, Beuerman, and Seebohm. 3,021,326.
Belden, Sarah H.: *See*—
De Gray, Richard J., and Belden. 3,030,375.
Belden, Sarah H., to The Standard Oil Co. Acid-treated borated oxazolines. 3,030,374, 4–17–62, Cl. 260—307.
Belden, Sarah H., to The Standard Oil Co. Novel boron compounds. 3,070,603, 12–25–62, Cl. 260—307.
Belding, Elwyn W.: *See*—
Knowles, John W., and Belding. 3,066,375.
Belding, Dr. T. C.: *See*—
Knowles, John W., and Belding. 3,066,375.
Beleggingsmaat-Schappy "Margarita": *See*—
King, Cecil V. 3,043,129.
Belejack, Stephen. Merchandise display rack. 3,019,907, 2–6–62, Cl. 211—49.
Belfi, Anthony B.: *See*—
Mauck, Victor, Duke, and Belfi. 3,068,934.
Belford, Adam J. R., to Stewarts and Lloyds Ltd. Goggle or plate valves. 3,033,237, 5–8–62, Cl. 138—94.3.
Belfort, Alan M., to American Viscose Corp. Ether derivatives of tobacco and tobacco products. 3,056,697, 10–2–62, Cl. 131—17.
Belge de l'Azote et des Produits Chimiques du Marly, Société: *See*—
Braconier, Frederic F. A., and Riga. 3,019,271.
Braconier, Frederic F. A., and Riga. 3,026,969.
Braconier, Frederic F. A., and Riga. 3,055,957.
Braconier, Frederic F. A., and Riga. 3,057,707.
Braconier, Frederic F. A., and Riga. 3,061,415.
Braconier, Frederic F. A., and Riga. 3,069,246.
Belicka, Michael E., L. P. Borkoski, and J. T. Ferraris, to Electrolux Corp. Vacuum cleaners. 3,039,129, 6–19–62, Cl. 15—331.
Belicka, Michael E., L. P. Borkoski, and F. C. Doughman, to Electrolux Corp. Vacuum cleaners. 3,039,130, 6–19–62, Cl. 15—377.
Belik, Eduard: *See*—
Culik, Karel, Herold, Palkoska, Belik, and Dasek. 3,037,917.
Beling, Thomas E., to International Telephone & Telegraph Corp. System for providing short high amplitude square voltage pulses. 3,015,777, 1–2–62, Cl. 328—58.
Belisle, Adelard J. Reclining article of furniture having movable leg rest. 3,044,827, 7–17–62. Cl. 297—89.
Belisle, Adelard J., H. D. Allyn, and F. M. Re, to Dual Mfg. & Engineering, Inc. Reclining chair. 3,058,774, 10–16–62, Cl. 297—89.

Belisle, Adelard J., H. D. Allyn, and F. M. Re, to Dual Mfg. & Engg., Inc. Reclining chair. 3,069,201, 12–18–62, Cl. 297—85.

Belk, Wilber C., to FMC Corp. Method of sectionizing grapefruit. 3,018,808, 1–30–62, Cl. 146—236.

Belk, Wilber C., to FMC Corp. Article handling apparatus. 3,024,890, 3–13–62, Cl. 198—34.

Belk, Wilber C., to FMC Corp. Apparatus for separating thick-skinned citrus fruit from thin-skinned citrus fruit. 3,031,081, 4–24–62, Cl. 209—173.

Belk, Wilber C., to FMC Corp. High speed feed mechanism. 3,040,864, 6–26–62, Cl. 198—25.

Belk, Wilber C., and S. H. Ellison, Jr., to FMC Corp. Container filling apparatus. 3,018,592, 1–30–62, Cl. 53—61.

Belk, Wilber C., and R. Polk, Jr., said Belk assor. to FMC Corp. Apparatus for sectionizing citrus fruit having a vibrating blade. 3,045,729, 7–24–62, Cl. 146—3.

Belke Mfg. Co.: *See*—
Belke, William E. 3,032,494.
Belke, William E. 3,042,605.

Belke, William E., to Belke Mfg. Co. Electroplating racks. 3,032,494, 5–1–62, Cl. 204—297.

Belke, William E., to Belke Mfg. Co. Electroplating racks. 3,042,605, 7–3–62, Cl. 204—297.

Belkin, Harold M., to Standard Oil Co. Vapor-liquid contacting. 3,033,541, 5–8–62, Cl. 261—112.

Belkin, Morris: *See*—
Gioia, Nicola J. 3,059,828.
Gioia, Nicola J. 3,065,374.

Belknap, Donald J. Microminiature incandescent lamp. 3,040,204, 6–19–62, Cl. 313—315.

Belknap, Kenneth E., to Hydrahone Equipment Co. Combination vacuum lifter and bag clipping assembly. 3,046,713, 7–31–62, Cl. 53—112.

Belknap, Louis S.: *See*—
Wendell, Charles B., Jr., and Belknap. 3,028,226.

Belknap, Paul A., and J. J. Keilen, Jr., to Charleston Rubber Co. Seamless article. 3,025,403, 3–13–62, Cl. 250—108.

Bell Aerospace: *See*—
Blanton, John W. 3,054,388.
Blanton, John W. 3,064,627.
Brown, Robert L. 3,029,333.
Dashfield, Donald A. 3,069,296.
Goldin, Robert. 3,052,121.
Herman, Irving M. 3,064,355.
Jackes, Arthur M. 3,016,214.
Kelley, Bartram, Lynn, and Wagner. 3,035,643.
Moore, Wendell F. 3,021,095.
Moore, Wendell F. 3,066,887.
Moore, Wendell F. 3,069,841.
Pascoe, Robert L., and Wernicke. 3,058,529.
Singlemann, Dietrich E. 3,041,831.
Singelmann, Dietrich E. 3,049,081.
Singelmann, Dietrich E. 3,055,331.
Singelmann, Dietrich E. 3,068,719.
Strasser, Gabor. 3,052,019.
Trotter, John C. 3,052,505.
Trotter, John C. 3,065,036.
Zurawinski, Mitchell, and Sperazz. 3,061,242.

Bell, Alan: *See*—
Kibler, Charles J., Bell, and Smith. 3,033,822.
Kibler, Charles J., Bell, and Smith. 3,033,826.
Kibler, Charles J., Bell, and Smith. 3,033,827.
Kibler, Charles J., Bell, and Smith. 3,049,506.
Tholstrup, Clarence E., and Bell. 3,016,363.

Bell, Alan, M. B. Knowles, and C. E. Tholstrup, to Eastman Kodak Co. Heat-stable poly-*a*-olefin compositions. 3,038,878, 6–12–62, Cl. 260—45.85.

Bell, Albert G., and S. R. Epton, to Shell Oil Co. Break-in compositions for internal combustion engines. 3,050,379, 8–21–62, Cl. 44—58.

Bell, Alec T.: *See*—
Snowman, John W., and Bell. 3,068,879.

Bell, Alfred D. Toilet ventilating apparatus. 3,059,245, 10–23–62, Cl. 4—213.

Bell, Angus S., L. Krause, and G. Hammerschmidt, to British Celanese Ltd. Fibrous batting materials. 3,025,187, 3–13–62, Cl. 117—140.

Bell, Angus S., J. Smithies, and J. A. Briggs, to British Celanese Ltd. Heat-insulating materials. 3,044,914, 7–17–62, Cl. 154—44.

Bell, Arthur L., and G. H. Alford, to Young and Selden Co. Combined perforating and printing machine. 3,068,788, 12–18–62, Cl. 101—226.

Bell, Benjamin P.: *See*—
Graes, Howard B., Jr., and Bell. 3,023,089.
Reuss, John L., and Bell. 3,025,707.

Bell, Carl L., and W. S. Repp, to American Can Co. Pallet elevator. 3,047,095, 7–31–62, Cl. 187—3.

Bell, Currie G. Heated windshield wiper. 3,034,166, 5–15–62, Cl. 15—250.07.

Bell, Derrick C., to Westinghouse Electric Corp. Electroluminescent device and method. 3,064,155, 11–13–62, Cl. 313—108.

Bell Electric Co.: *See*—
Bellek, Frank G. 3,041,576.

Bell Engineering (Slough) Ltd.: *See*—
Sanders, Horace F., and Breadner. 3,031,936.

Bell Fabricating Co. Inc.: *See*—
Bocchino, Joseph J. 3,020,978.

Bell, Francis R., to The De Havilland Engine Co. Ltd. Cooling of rotary components. 3,035,875, 5–22–62, Cl. 308—77.

Bell, Francis R., to The De Havilland Engine Co., Ltd. Eddy-current braking apparatus. 3,068,372, 12–11–62, Cl. 310—93.

Bell, Francis R., and G. E. Preece, to The De Havilland Engine Co. Ltd. Flexible supporting arrangement for rotating members. 3,035,878, 5–22–62, Cl. 308—143.

Bell, George A., and J. Lobb, to Commonwealth Scientific and Industrial Research Organization. Needle sharpening apparatus. 3,043,060, 7–10–62, Cl. 51—122.

Bell, George N. Pallet implanter. 3,058,465, 10–16–62, Cl. 128—217.

Bell, George W., to Northwestern Steel & Wire Co. Nail boxing and weighing machine. 3,027,954, 4–3–62, Cl. 177—52.

Bell, Gordon M., to General Electric Co. Dimming system for gaseous discharge lamps. 3,031,598, 4–24–62, Cl. 315—201.

Bell & Gossett Co.: *See*—
Durkee, James D., Stewart, and Peugh. 3,035,250.
Greene, Robert R., Harker, and Lockhart. 3,059,582.
Greene, Robert R., Harker, and Lockhart. 3,063,262.
Harker, John H. 3,025,068.
Hinde, James N. 3,042,379.
Loy, Walter H., and Goetsch. 3,070,028.
Piper, Jack R. 3,056,356.
Sanborn, William L. 3,064,307.
Stewart, Clarence H. 3,060,408.

Bell, Gregory E., D. D. Campbell, and R. M. Fox, to General Motors Corp. Windshield wiper mechanism. 3,037,391, 6–5–62, Cl. 74—70.

Bell Helicopter Corp.: *See*—
Cresap, Wesley L. 3,026,942.

Bell & Howell Co.: *See*—
Badalich, Frank C. 3,044,198.
Bagby, John P., and Freeland. 3,053,159.
Bernzott, Hugo. 3,029,686.
Brandys, Roman A. 3,059,604.
Brewer, Silas H., Harris, and Sandback. 3,029,699.
Cox, Arthur, and Johnson. 3,044,355.
Cox, Arthur, and Johnson. 3,044,356.
Cox, Arthur, and Johnson. 3,059,535.
Cox, Arthur, and Johnson. 3,059,536.
Cox, Arthur, and Linke. 3,023,673.
Cox, Arthur, and Sandback. 3,020,804.
Forester, Harold E., Smitzer, and Gross. 3,060,827.
Fox, Merrill J. 3,021,136.
Fox, Merrill J. 3,065,890.
Hall, Walter J. 3,023,669.
Harris, Thomas I., and Johnson. 3,038,378.
Harris, Thomas I., and Sandback. 3,059,532.
Johnson, Walter J., and Sandback. 3,065,671.
Koeber, Henry J. 3,044,385.
Krous, George F. 3,047,671.
La Rue, Merwin W., Jr. 3,066,587.
Lessman, Gerhard. 3,023,667.
Lessman, Gerhard. 3,030,578.
Lessman, Gerhard. 3,038,372.
Linke, Walter R. 3,044,357.
Linke, Walter R. 3,051,049.
MacMillin, David M. 3,021,040.
MacMillin, David M. 3,044,347.
MacMillin, David M. 3,062,111.
McKinlay, Harry deL., Jr. 3,045,124.
Mellberg, Frank W. 3,059,533.
Michaels, Bruno. 3,021,039.
Michaels, Bruno. 3,053,465.
Mueller, Arthur C. 3,020,814.
Raufeisen, Joseph. 3,033,217.
Royston, Marvin F. 3,065,578.
Sandback, Irving C. 3,023,672.
Townsley, Malcolm G. 3,044,676.

Bell Intercontinental Corp.: *See*—
Brandt, William E. 3,020,683.
Freeman, Ardee H. 3,036,708.
Freeman, Ardee H. 3,049,837.
Leliaert, Raymond M. 3,031,802.
Schnetzer, Alfred. 3,041,787.
Schulte, Harold F. 3,036,413.
Snyder, Clyde A. 3,041,808.

Bell, James E., Jr., to E. I. du Pont de Nemours and Co. Improved mattress assembly. 3,027,573, 4–3–62, Cl. 5—355.

Bell, Jerome V.: *See*—
Samuel, George A., and Bell. 3,059,911.
Samuel, George A., Bell, Grosvenor, and Jackson. 3,021,231.

Bell, John: *See*—
Foll, John V. and Bell. 3,045,630.

Bell, John, J. V. Foll, and F. H. Muirhead, to Muirhead & Co. Ltd. Ship stabilizers. 3,015,298, 1–2–62, Cl. 114—126.

Bell, Joseph A. Reel construction for motion picture film and for magnetic tape and the like. 3,063,652, 11–13–62, Cl. 242—71.8.

Bell, Kenneth R.: *See*—
Beirne, Henry, and Bell. 3,029,579.

Bell, Lewis W. Guard for powder actuated tool. 3,055,007, 9–25–62, Cl. 1—44.5.

Bell, Lewis W., W. A. Eager, and R. H. Maynard, to Star Expansion Industries Corp. Powder actuated tool. 3,055,-008, 9–25–62, Cl. 1—44.5.

Bell, Malcolm R.: *See*—
Archer, Sydney, and Bell. 3,056,794.
Archer, Sydney, and Bell. 3,056,795.
Archer, Sydney, and Bell. 3,058,984.

Bell, Mildred. Foundation garment. 3,035,586, 5–22–62, Cl. 128—524.

Bell, Noel G. Auto track laying and amphibious vehicles. 3,034,591, 5–15–62, Cl. 180—8.

Bell, Norton W., to Consolidated Electrodynamics Corp. Analog-to-digital converter. 3,059,223, 10–16–62, Cl. 340—173.

Bell, Ramsay M.: *See*—
Bass, Miles M., Bell, Hammond, and Robischung. 3,029,563.

Bell, Raymond M., to Lockheed Aircraft Corp. Vibration testing device. 3,045,476, 7–24–62, Cl. 73—71.6.

Bell, Raymond M., W. F. Gooding, F. C. Wellman, and J. A. McDevitt to Electrolux Corp. Apparatus for and method of manufacturing flexible containers. 3,045,560, 7–24–62, Cl. 93—8.

Bell, Richard W., E. Csendes, and H. F. McShane, Jr., to E. I. du Pont de Nemours and Co. Stabilized uncured copolymers of butadiene and styrene. 3,057,820, 10–9–62, Cl. 260—45.85.

Bell, Robert E.: *See*—
Allen, William M., and Bell. 3,031,119.

Bell, Robert E., and R. B. Williams, Jr., to Toledo Scale Corp. Load measuring apparatus. 3,039,686, 6–19–62, Cl. 235—151.

Bell, Robert E., and R. B. Williams, Jr., to Toledo Scale Corp. Condition responsive device with motion detecting means. 3,042,128, 7–3–62, Cl. 177—210.

Bell, Robert E., and R. B. Williams, Jr., to Toledo Scale Corp. Industrial computing scale. 3,055,585, 9–25–62, Cl. 235—160.

Bell, Robert H., to Joseph Lucas (Industries) Ltd. Aircraft fuel pumps. 3,038,410, 6–12–62, Cl. 103—87.

Bell, Robert H., to Joseph Lucas (Industries) Ltd. Liquid fuel pumps. 3,060,859, 10–30–62, Cl. 103—87.

Bell, Robert H., and T. C. Campbell, to Joseph Lucas (Industries) Ltd, and The English Electric Co. Aircraft fuel supply systems. 3,060,998, 10–30–62, Cl. 158—36.4.

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Bell, Robert R., and C. O. Friend. Means for altering telephone operation. 3,033,941, 5–8–62, Cl. 179—89.

Bell Sound Studios, Inc.: *See*—
Cronin, Daniel. 3,057,968.

Bell Telephone Laboratories, Inc.: *See*—
Abbott, George F., Jr., and Padden. 3,051,850.
Abbott, Henry H. 3,059,058.
Abbott, Henry H., Martin, Olsen, Previte, and H. J. and J. G. Walsh. 3,037,087.
Abbott, Henry H., Martin, and Walsh. 3,037,086.
Abraham, Richard P. 3,036,224.
Albershein, Walter J. 3,056,129.
Albrecht, John C. 3,030,609.
Alsberg, Dietrich A., and Benton. 3,045,235.
Anderson, Harold P. 3,026,425.
Anderson, Johan R. 3,056,618.
Anderson, William W., and Hines. 3,051,908.
Andregg, Ernest R. 3,048,660.
Andrew, Harold B., Hipkins, and Towsley. 3,016,310.
Andrews, Ernest G. 3,050,716.
Ashkin, Arthur, and Gordon. 3,054,964.
Atalla, Martin M. 3,056,888.
Atalla, Martin M., Ross, and Smits. 3,045,129.
Averill, Robert M., Jr. 3,048,826.
Bachelet, Albert E. 3,036,163.
Bachelet, Albert E. 3,061,679.
Backman, Gustav A., and Ortel. 3,018,048.
Baldwin, John A., Jr. 3,029,415.
Ballman, Albert A. 3,057,677.
Barnes, Clare E. 3,046,561.
Barnett, Cecil H., Large, and Pruden. 3,021,397.
Barnett, Cecil H., Large, and Pruden. 3,021,398.
Barrett, William A., Jr. 3,067,408.
Beck, Alfred C., and Chinnock. 3,039,707.
Becker, Floyd K. 3,022,378.
Benson, Milton L., and Breen. 3,050,588.
Berkery, Eugene A. 3,047,746.
Bjornson, Bjorn G. 3,053,134.
Black, Harold S., and Edson. 3,020,350.
Bobeck, Andrew H. 3,052,873.
Bobeck, Andrew H. 3,061,665.
Bomba, James S., Haller, and Kretzmer. 3,050,581.
Bommel, Hans E., and Dransfeld. 3,037,174.
Bonner, Arthur L. 3,042,759.
Borchard, Edwin H. 3,016,512.
Borden, Dean C. 3,023,413.
Bostwick, Lee G., and Strack. 3,040,256.
Bosworth, Raymond H. 3,042,740.
Bouton, George M. 3,063,145.
Bowers, Fritz K., and Schafer. 3,023,384.
Bowers, Klaus D., Kompfner, and Mims. 3,067,379.
Boyd, Gary D., Fox, and Li. 3,055,257.
Boyle, Willard S., and Thomas. 3,059,117.
Brass, Robert L. 3,050,698.

Bell Telephone Laboratories, Inc.: *See*—Continued
Brattain, Walter H., and Wade. 3,022,374.
Braun, Herbert J., Mallina, and McKenzie. 3,054,165.
Breed, Rolland N. 3,027,424.
Breen, Charles, and Michael. 3,046,339.
Brewer, Sherman T. 3,060,390.
Brooks, Chester E., Croiutt, and Henry. 3,070,666.
Brown, Earl F. 3,021,384.
Brown, John T. L. 3,039,438.
Buhrendorf, Frederick G. 3,040,223.
Buhrendorf, Frederick G. 3,045,884.
Bullock, Donald E., Cocker, and Rack. 3,064,208.
Buntebach, Rudolph W. 3,069,546.
Butler, Thomas T. 3,064,890.
Byrnes, Peter A., Jr., Davis, and Mener. 3,048,690.
Cagle, William B., and Muroski. 3,041,537.
Carbrey, Robert L. 3,038,029.
Carbrey, Robert L. 3,050,587.
Cath, Picter G. 3,020,348.
Cath, Pieter G., and Pferd. 3,046,355.
Celentano, Arnold J. 3,061,678.
Chasek, Norman E. 3,028,489.
Chasek, Norman E. 3,035,258.
Chegwidden, Raymond A. 3,059,194.
Chegwidden, Thomas H. 3,064,181.
Christensen, Howard. 3,035,175.
Chynoweth, Alan G., Feldman, and Pearson. 3,053,998.
Ciccolella, David F., Forster, and Rulison. 3,067,485.
Ciotti, Paul P., Re. 25,189.
Cirone, Frank P. 3,015,784.
Cirone, Frank P. 3,061,682.
Cirone, Frank P., Harr, and Lowry. 3,036,161.
Clemency, William F. 3,046,354.
Cohen, Ezra. 3,032,714.
Coleman, Sidney B. 3,064,236.
Comstock, Richard L. 3,022,463.
Cook, John S. 3,060,341.
Cook, John S., and Louisell. 3,056,092.
Courtney-Pratt, Jeofry S. 3,015,959.
Courtney-Pratt, Jeofry S. 3,040,852.
Courtney-Pratt, Jeofry S. 3,036,152.
Courtney-Pratt, Jeofry S. 3,043,960.
Crater, Theodore V. 3,061,814.
Crawford, Robert V. 3,065,397.
Cutler, Cassius C. 3,048,350.
Cutler, Cassius C. 3,055,004.
Cutler, Cassius C. 3,058,106.
Cutler, Cassius C. 3,060,425.
Cutler, Cassius C., and Pierce. 3,057,579.
Dacey, George C. 3,036,234.
Dacey, George C. 3,060,327.
Dacey, George C., Lee, and Shockley. 3,028,655.
Dacey, George C., and Wallace. 3,063,023.
Danielson, Warren E. 3,058,107.
D'Asaro, Lucian A. 3,040,196.
Davey, James R. 3,022,375.
Davey, James R. 3,058,055.
David, Edward E., Jr. 3,069,507.
Davis, Claude G. 3,026,510.
Davis, Claude G. 3,026,511.
Davis, Kingsbury H., and Norwine. 3,024,321.
Davis, Thomes E. 3,038,099.
Davis, Thomas E. 3,048,779.
Dehn, Joseph W., and Vroom. 3,016,189.
De Lange, Owen E. 3,069,564.
De Loach, Bernard C., Jr. 3,050,689.
De Loach, Bernard C., Jr., and Ring. 3,016,499.
Deminie, Royce D., Jacobitti, Kennedy, Large, and Pruden. 3,046,525.
De Monte, Robert W., and Kopp. 3,068,329.
Dewald, Jacob F., and Lander. 3,017,548.
Dickieson, Alton C. 3,020,868.
Dillon, Joseph F., Jr. 3,040,184.
Dimond, Thomas L., and Wyckoff. 3,031,135.
Donoho, Paul L. 3,048,351.
Doucette, Edward I. 3,035,186.
Doucette, Edward I., and Ryder. 3,059,158.
Dreher, Jerome. 3,034,014.
Duvall, George H., Hammersla, and Kollss. 3,061,666.
Edson, Robert C. 3,021,488
Ellis, Benjamin C., Jr. 3,066,274.
Ellwood, Walter B. 3,032,628.
Engelbrecht, Rudolf S. 3,045,189.
Engelbrecht, Rudolf S. 3,051,909.
Entz, Ferdinand S. 3,016,426.
Ewin, James C. 3,022,382.
Farrow, Cecil W. 3,063,021.
Favin, David L. 3,041,540.
Favin, David L. 3,049,675.
Feder, Herbert S. 3,060,267.
Feder, Herbert S., and Manasse. 3,068,322.
Feinstein, Joseph. 3,069,594.
Felker, Jean H. 3,025,412.
Ferguson, John G. 3,064,185.
Ferguson, John G. 3,065,413.
Flaschen, Steward S., and Garn. 3,028,447.
Flaschen, Steward S., and Pearson. 3,024,119.
Fleckenstein, William O. 3,051,940.
Fleckenstein, William O. 3,067,363.
Foulkes, John D. 3,023,309.
Friis, Harald T., and Unger. 3,018,452.
Froehlich, Fritz E. 3,027,547.
Frost, Harold B. 3,058,057.

Bell Telephone Laboratories, Inc.: *See*—Continued
Fuller, Calvin S. 3,015,590.
Fuller, Calvin S., and Whelan. 3,070,467.
Fulmer Robert J. 3,042,752.
Fuss, Peter S. 3,069,563.
Garrison, Richard F., and Saal. 3,022,003.
Geyling, Franz T. 3,023,627.
Geyling, Franz T. 3,041,923.
Gianola, Umberto F. 3,040,305.
Gianola, Umberto F. 3,045,215.
Gianola, Umberto F. 3,069,661.
Gibby, Richard A., Kahl, and Mahoney. 3,057,957.
Gilbert, Edgar N., and Moore. 3,016,527.
Gilman, George W., Pullis, and Spack. 3,069,501.
Glaser, John L. 3,048,781.
Goldstein, Hans L. 3,018,431.
Gotthardt, Manfred R., and Lowry. 3,047,668.
Graff, Harry J., Kleinfelder, and Schwartz. 3,064,072.
Graham, Robert E. 3,026,375.
Graham, Robert E. 3,051,778.
Graham, Robert S. 3,042,751.
Gray, Preston R. 3,057,963.
Grenier, Thomas J. 3,061,797.
Gretter, Ralph W. 3,024,956.
Griffiths, Herbert D., Higgins, and Studdiford. 3,040,254.
Grubbs, William J., Jr., Hines, and Varnerin. 3,021,459.
Gyorgy, Ernst M., and Nesbitt. 3,067,029.
Gyorgy, Ernst M., and Scovil. 3,051,917.
Haas, Charles W., Jr. 3,047,738.
Haas, Hammond H. 3,070,672.
Hagelbarger, David W. 3,052,413.
Hamilton, Billy H. 3,069,612.
Hamori, Andras. 3,062,927.
Harmon, Leon D. 3,016,421.
Harmon, Leon D. 3,050,711.
Harmon, Leon D. 3,050,713.
Harmon, Leon D., and Mattke. 3,027,528.
Harry, William R. 3,066,633.
Hawkins, Walter L., and Winslow. 3,042,649.
Hawks, Verl J. 3,016,857.
Hawks, Verl J. 3,033,146.
Held, Harold C. 3,068,733.
Helder, George K., and Mayo. 3,048,819.
Hellstrom, Edward C., and Pollard. 3,048,677.
Hersey, Ralph E. 3,064,090.
Hewitt, William H., Jr. 3,016,535.
Highleyman, Wilbur H. 3,047,747.
Howard, Brian T. 3,066,052.
Hussey, Luther W. 3,047,667.
Hussey, Luther W., and Saal. 3,060,324.
Igenfritz, Lester M., Moore, and Robertson. 3,016,514.
Iwersen, John E., and Nelson. 3,028,663.
Jackson, Frederick R., Jr. 3,025,469.
Jackson, Harold M., II. 3,063,012.
Jacobitti, Edward, James, Morrison, and Newsom. 3,025,357.
Jacobson, Oscar D. 3,019,822.
Jacobson, Oscar D. 3,020,969.
Jacobson, Oscar D. 3,030,451.
Jacobson, Oscar D. 3,030,985.
Jacobson, Oscar D., and Krantz. 3,056,868.
James, Dennis B., and Kretsch. 3,023 278.
James, Dennis B., and Wolfe. 3,056,085.
Jones, William C. 3,035,767.
Jones, William C., and Ridinger. 3 021,436.
Jordan, Homer G., Purgett, Restall, and Schweizer. 3,027,432.
Jurgens, William C., and Treptow. 3,046,356.
Kadri, Fred V. 3,030,589.
Kadri, Fred V. 3,031,629.
Kaenel, Reginald A. 3,021,517.
Kaenel, Reginald A. 3,046,543.
Kaiser, James F. 3,057,960.
Kamentsky, Louis A. 3,018,471.
Kammerer, Fred W., Riesz, and Wallace. 3,015,738.
Keller, Arthur C., Peek, Schneider, and Spahn. 3,042,773.
Ketchledge, Raymond W. 3,027,518.
Kibler, Lynden U. 3,050,702.
King, Bernard G. 3,054,906.
Kingsbury, Edwin F. 3,020,792.
Kingston, Paul E. 3,038,648.
Klingenberg, Alfred S. 3,016,083.
Knandel, George J., and Krecek. 3,036,150.
Knox-Seith, John. 3,032,725.
Kohman, Girard T., and McAfee. 3,019,853.
Kolding, Aaron R., and Mayo. 3,070,667.
Kompfner, Rudolf. 3,021,490.
Kompfner, Rudolf. 3,021,524.
Kompfner, Rudolf. 3,051,911.
Kompfner, Rudolf, and Weiss. 3,041,559.
Kostelnick, Joseph J. 3,016,497.
Kostelnick, Joseph J. 3,017,577.
Kostelnick, Joseph J. 3,035,235.
Kramer, Henry P. 3,046,346.
Krause, John T. 3,017,851.
Kretzmer, Ernest R. 3,035,257.
Kretzmer, Ernest R., and Townsend. 3,034,077.
Kuch, Frederick C. 3,020,510.
Landau, Henry J. 3,022,473.
Lee, Bock W. 3,046,493.

Bell Telephone Laboratories, Inc.: *See*—Continued
Lee, Bock W. 3,051,855.
Lee, Charles A. 3,054,972.
Lee, Robert C., and Yostpille. 3,027,550.
Leonard, Donald J., and Shennum. 3,030,448.
Lewis, Willard D. 3,044,017.
Li, Tingye. 3,020,543.
Lockwood, William H., and Peters. 3,040,386.
Logan, Mason A. 3,020,479.
Logan, Mason A. 3,048,776.
Lovecky, Albert J. 3,019,517.
Lowry, Terrell N. 3,037,085.
Lowry, Terrell N. 3,070,677.
Lozier, John C. 3,054,370.
Lundry, Walter R. 3,017,578.
Lundry, Walter R. 3,017,584.
Madden, James J. 3,051,736.
Mallery, Paul. 3,016,196.
Mallery, Paul. 3,021,070.
Mallery, Paul. 3,051,941.
Malthaner, William A., and Müller. 3,035,252.
Mammel, Lewis H. 3,036,786.
Mann, Henry. 3,015,815.
Mann, Henry. 3,057,972.
Mann, Henry, and Mayo. 3,057,962.
Marcatili, Enrique A. J. 3,025,478.
Marcatili, Enrique A. J. 3,031,630.
Marcatili, Enrique A. J., and Ring. 3,050,699.
Margolis, David P., and Walsh. 3,050,843.
Mason, Warren P. 3,015,708.
Mason, Warren P. 3,034,345.
Mason, Warren P. 3,064,213.
Mathews, Max V. 3,023,272.
Mattingly, Robert L. 3,028,591.
Mattke, Charles F., and Reynolds. 3,021,428.
May, Carl J., Jr. 3,027,524.
Mayne, Robert H. 3,033,452.
McGuigan, John H. 3,016,521.
McKim, Burton. 3,041,467.
Meacham, Larned A. 3,021,478.
Meacham, Larned A. 3,064,084.
Meacham, Larned A., Schenker, and West. 3,060,275.
Meitzler, Allen H. 3,041,556.
Melroy, David O. 3,045,145.
Meyers, Stanley T. 3,054,000.
Middaugh, Jack K. 3,018,334.
Miedema, Hotze. 3,046,347.
Miller, Ralph P. 3,030,524.
Miller, Robert A., Munson, Owendoff, and Taris. 3,022,380.
Miller, Stewart E. 3,020,495.
Miller, Stewart E. 3,064,214.
Mitchell, Clifford E. 3,035,211.
Montgomery, Harold C. 3,064,610.
Moraff, Howard. 3,031,468.
Muller, David E. 3,017,626.
Muller, George G., and O'Brien. 3,058,055.
Mumford, William W. 3,023,374.
Mumford, William W., and Tatsuguchi. 3,026,490.
Myers, Peter B. 3,015,809.
Neumann, Peter G. 3,031,784.
Newby, Neal D. 3,061,818.
Newby, Neal D., and Sturiale. 3,061,193.
Nielsen, James W. 3,043,671.
Nielsen, James W. 3,050,407.
Nowak, John S., and Ulrich. 3,060,273.
O'Brien, William D., and Pollard. 3,054,873.
Ohm, Edward A. 3,040,277.
Olson, Hilding M., Jr. 3,032,680.
Ostendorf, Bernard, Jr., and Parker. 3,041,396.
Pasternak, John P. 3,027,536.
Pearson, Gerald L. 3,027,501.
Pearson, Gerald L. 3,040,262.
Peek, Robert L., Jr. 3,059,075.
Peek, Robert L., Jr. 3,061,696.
Perreault, George E. 3,015,707.
Pfann, William G. 3,059,129.
Pfann, William G. 3,065,636.
Pferd, William. 3,022,381.
Pferd, William. 3,055,679.
Pierce, John R. 3,016,503.
Pohl, Karl-Heinz H. 3,021,500.
Pollard, Charles E., Jr. 3,018,354.
Poole, Kenneth M., Tien, and Weiss. 3,044,021.
Power, James R. 3,057,964.
Prestigiacomo, Anthony J. 3,020,344.
Preston, Kendall, Jr. 3,048,709.
Rea, Wilton T., and Roberts. 3,064,080.
Remeika, Joseph P. 3,063,886.
Rigrod, William W. 3,051,910.
Riley, Robert M. 3,020,334.
Ring, Douglas H. 3,032,723.
Robertson, Donald D. 3,041,993.
Robertson Sloan D. 3,065,373.
Rongved, Leif. 3,017,452.
Roscoe, Lawrence C. J. 3,067,343.
Rose, Charles F. P. 3,056,710.
Rowe, Harrison E. 3,057,959.
Rumpel, Carl H. 3,048,778.
Runyon, John P. 3,050,586.
Ruthroff, Clyde L. 3,037,173.
Ruthroff, Clyde L. 3,037,175.

Bell Telephone Laboratories, Inc.: *See*—Continued
Saal, Frederick A. 3,030,447.
Saltzberg, Burton R. 3,016,517.
Sandberg, Irwin W. 3,041,557.
Sandberg, Irwin W. 3,045,194.
Sandberg, Irwin W. 3,046,504.
Sandberg, Irwin W. 3,051,920.
Schelleng, John C. 3,019,296.
Schemel, Raymond E., and Tempes. 3,040,235.
Schneider, Herbert A. 3,015,444.
Schneider, Herbert A. 3,064,241.
Schott, Lionel O. 3,051,846.
Schroeder, Manfred R. 3,030,450.
Schwenker, John E. 3,035,185.
Schwenzfeger, Edward E. 3,016,425.
Schwenzfeger, Edward E. 3,019,293.
Seidel, Harold. 3,040,267.
Seidel, Harold. 3,056,091.
Seley, Eldon L., and Stone. 3,048,716.
Sherwood, Richard C., and Williams. 3,059,538.
Simms, Robert L., Jr. 3,035,936.
Smith, Arnold R. 3,060,583.
Smith, James L. 3,060,411.
Smith, Kenneth D. 3,060,857.
Smith, Larrabee M. 3,051,929.
Spector, Clarence J., and Warner. 3,062,972.
Spenninger, William R. 3,047,947.
Stone, Henry A., Jr., and Warner. 3,061,739.
Suhl, Harry. 3,066,263.
Sullivan, John L. 3,026,377.
Tanenbaum, Morris, and Wallace. 3,022,472.
Tang, Charles H. 3,050,701.
Tendick, Frank H., Jr. 3,054,002.
Theuerer, Henry C. 3,060,123.
Thomas, Donald E. 3,025,468.
Thomas, Donald E. 3,026,479.
Thomas, Donald E. 3,050,924.
Thomas, Donald E. 3,058,064.
Thurber, Elmer A. 3,015,560.
Tien, Ping K. 3,016,495.
Toro, Joseph A. 3,061,767.
Trambarulo, Ralph F., and Turner. 3,040,276.
Treptow, Arnold W. 3,029,559.
Turner, Edward H. 3,023,379.
Ulrich, Werner. 3,017,091.
Unger, Hans-Georg. 3,016,502.
Van Dine, Gilbert A. 3,016,470.
Van Uitert, Le Grand G. 3,023,165.
Van Uitert, Le Grand G. 3,038,861.
Vaughan, Henry E. 3,027,548.
Vaughan, Henry E. 3,050,589.
Villars, Claude P. 3,016,528.
Villars, Claude P. 3,023,410.
Villars, Claude P. 3,065,422.
Von Aulock, Wilhelm H. 3,030,593.
Votaw, Clarence J. 3,022,372.
Wallace, Robert L., Jr. 3,062,971.
Warner, Raymond M., Jr. 3,056,100.
Weatherill, Philip H. 3,027,084.
Weber, Edward H., Jr. 3,051,854.
Weiss, Max T. 3,022,466.
Weiss, Max T. 3,054,042.
Weiss, Max T. 3,063,028.
Wernick, Jack H. 3,060,771.
White, Philip R. 3,066,406.
White, Samuel D. 3,062,921.
Wicox, Alwin S. 3,065,443.
Wiebusch, Charles F. 3,027,859.
Willhite, Charles C. 3,044,705.
Williford, Oscar H. 3,062,918.
Woodin, Elmer A. 3,027,427.
Wrathall, Leishman R. 3,065,297.
Wurmser, Alphons V. 3,031,998.
Yaeger, Robert E. 3,051,901.
York, Robert K. 3,051,845.
Zarouni, Alfred. 3,036,290.
Zarouni, Alfred. 3,041,409.
Zarouni, Alfred. 3,047,665.
Bell, Theodore F. Hanger and track construction. 3,058,-147, 11–16–62, Cl. 16—87.6.
Bell Trading Post, Ltd.: *See*—
Placco, Oscar F., Stone, and Keyes. 3,019,503.
Bell, Walter: *See*—
Rosenbaum, Kurt, Bell, and Ost. 3,049,162.
Bell, Walter, to Star Expansion Industries Corp. Hanger. 3,063,669, 11–13–62, Cl. 248—304.
Bell, William A., and G. E. Gellasch. Sanding block. 3,063,-208, 11–13–62, Cl. 51—187.
Bell, William C., and J. M. Luiacono, to Martin-Marietta Corp. Metal fabrication. 3,059,603, 10–23–62, Cl. 113—44.
Bell, William E., to Varian Associates. Magnetic field stabilizing and measuring apparatus. 3,039,045, 6–12–62, Cl. 324—.5.
Bell, William W. Recording apparatus. 3,032,764, 5–1–62, Cl. 346—62.
Bell, Wilton O., and A. E. Neckar, to Commercial Solvents Corp. Process for the preparation of 5-aminohexahydropyrimidines. 3,054,797, 9–18–62, Cl. 260—256.4.
Bellak, Seymour: *See*—
Meyer, Robert E., and Bellak. 3,044,479.
Bellamy, John C., to Cook Electric Co. High output torque function generator utilizing a punched tape input. 3,017,111, 1–16–62, Cl. 235—197.
Bellanti, Anthony I. Shirt collar. 3,046,562, 7–31–62, Cl. 2—132.
Bellarts, Henry J., to United States of America, Atomic Energy Commission. Gripper device for tapes. 3,059,303, 10–23–62, Cl. 24—263.
Belle City Malleable Iron Co.: *See*—
Johns, Robert A. 3,021,627.
Belle Jardiniere: *See*—
Jones, Ronald. 3,067,516.
Bellek, Frank G., to Bell Electric Co. Outlet. 3,041,576, 6–26–62, Cl. 339—192.
Belleni, Raymond B. Bowler's hand towel. 3,040,357, 6–26–62, Cl. 15—209.
Beller, Frank W. to Belson Mfg. Co. Outdoor stove with non-removable adjustable grill. 3,053,245, 9–11–62, Cl. 126—25.
Beller, Hans, to General Aniline & Film Corp. High energy fuel and method for using same. 3,031,348, 4–24–62, Cl. 149—109.
Belli, Albert J., and H. S. Horn, to Curtiss-Wright Corp. Method of quenching gears. 3,048,506, 8–7–62, Cl. 148—143.
Belling & Lee, Ltd.: *See*—
Ayton, William R., Ginnings, and Hocking. 3,020,636.
Bellinger, Carnot E.: *See*—
Bauer, Robert D., and Bellinger. 3,048,373.
Bellinger, Ronald, to Strachan & Henshaw Ltd. Ship or bulge unloaders. 3,051,322, 8–28–62, Cl. 212—15.
Bellingham Chain & Forge Co.: *See*—
Deming, William A. 3,062,067.
Bellinger, Fred A., and M. G. Shifrer, to International Harvester Co. Material handling hoist for pallets and the like. 3,039,810, 6–19–62, Cl. 294—82.
Bellis, Howard M.: *See*—
Engel, James S., Bellis, and Huber. 3,054,107.
Bellmann, Eugen, G.b.m.H., Maschinenfabrik: *See*—
Bellmann, Friedhelm, and Kronsbein. 3,023,598.
Bellmann, Friedhelm, and C. Kronsbein, to Maschinenfabrik Eugen Bellmann G.m.b.H. Spraying devices for the treatment of textiles. 3,023,598, 3–6–62, Cl. 68—205.
Bellmuth, Heinrich: *See*—
Hamprecht, Guenther, Bellmuth, and Lorenz. 3,018,930.
Bello, Giovanni, to American Infra Red Radiant Co., Inc. Radiating thermic element with catalytic gas oxidation. 3,024,836, 3–13–62, Cl. 158—114.
Bellomo, Andrea. Homokinetic universal joint. 3,045,456, 7–24–62, Cl. 64—21.
Bellomo, Giovambattista. Extensible tables. 3,059,981, 10–23–62, Cl. 311—47.
Bellon, Roger: *See*—
Pesson, Marcel, and Salle. 3,034,961.
Bellows Co., The: *See*—
Shada, Joseph J. 3,064,760.
Bellows, Dexter C., to Westinghouse Electric Corp. Packaging arrangement. 3,039,600, 6–19–62, Cl. 206—45.14.
Bellows, Fox E., to Atlantis Electronics Corp. Convertible dolly-type vehicle. 3,064,989, 11–20–62, Cl. 280—41.
Bellringer, Frederick J., to The Distillers Co. Ltd. Production of dichlorbutenes. 3,015,679, 1–2–62, Cl. 260—652.5.
Belltone Hearing Aid Co.: *See*—
Sidlo, Joseph J. 3,055,990.
Bellwinkel, Curt: *See*—
Stümpfig, Friedrich, and Bellwinkel. 3,015,321.
Belmont, Emanuel, and C. Z. Leinkram, to The Bendix Corp. Semiconductor diode. 3,028,529, 4–3–62, Cl. 317—234.
Belmont, Emanuel, and C. Z. Leinkram, to The Bendix Corp. Semiconductor device. 3,041,509, 6–26–62, Cl. 317—235.
Beloit Eastern Corp.: *See*—
Karr, Gerald W. 3,065,923.
Beloit Iron Works: *See*—
Beachler, Edward D. 3,017,929.
Beachler, Edward D. 3,024,839.
Beachler, Edward D. 3,052,293.
Beachler, Edward D. 3,052,294.
Beachler, Edward D. 3,061,861.
Beachler, Edward D., and Dennis. 3,065,788.
Beachler, Edward D., and Dennis. 3,065,789.
Beachler, Edward D., and Justus. 3,025,910.
Brezinski, Jerome P. 3,061,098.
Cronin, Dennis C., and Justus. 3,053,319.
Deane, Robert A. 3,019,905.
Han, Shu T., and Brezinski. 3,018,825.
Hill, Lester M. 3,061,867.
Hornbostel, Lloyd. 3,016,772.
Hornbostel, Lloyd. 3,019,130.
Hornbostel, Lloyd. 3,019,511.
Hornbostel, Lloyd. 3,026,934.
Hornbostel, Lloyd. 3,029,779.
Hornbostel, Lloyd. 3,029,871.
Hornbostel, Lloyd. 3,053,343.
Hornbostel, Lloyd. 3,062,347.
Justus, Edgar J. 3,052,296.
Justus, Edgar J. 3,057,574.
Justus, Edgar J., and Brezinski. 3,029,780.
Mahoney, Ralph P. 3,066,047.
Moore, Lawrence A., and Hart. 3,060,843.
Skinner, Eugene S. 3,065,552.
Walker, Charles W. E. 3,023,805.
Walker, Charles W. E. 3,061,008.
Washburn, Robert S. 3,068,832.
Westbrook, Carl M. 3,063,683.
Belopitov, Nikola R., to VEB Fernmeldewerk Arnstadt. Method and apparatus for reducing contact noises in electrical devices. 3,028,478, 4–3–62, Cl. 219—76.

Belotti Industria Autogru-Altre Macchine, Firma: *See*—
Ferrari, Luigi. 3,054,130.

Beloungie, Lawrence W., to Acton Laboratories, Inc. Variable reference pulse generator for a delay meter. 3,052,802 9–4–62, Cl. 307—106.

Belove, Louis, to Sonotone Corp. Fusion-sealed metal-encased rechargeable alkaline battery cell. 3,064,065, 11–13–62, Cl. 136—6.

Belser, Richard B., and W. H. Hicklin, to United States of America, Army. Method of forming a stable aluminum plated quartz resonator. 3,048,912, 8–14–62, Cl. 29—25.35.

Belsinger, Samuel P. Self-locking container. 3,026,996, 3–27–62, Cl. 206—7.

Belsky, Charles, to Ford Motor Co. Spring seat assembly. 3,052,459, 9–4–62, Cl. 267—89.

Belsky, Charles, to Ford Motor Co. Windshield wiper. 3,067,448, 12–11–62, Cl. 15—250.23.

Belson Mfg. Co.: *See*—
Beller, Frank W. 3,053,245.

Belt Corp., The: *See*—
Belt, Vernon C. 3,017,189.

Belt, Howard J.: *See*—
Pickering, Royce D., and Belt. 3,033,980.

Belt, Vernon C., to The Belt Corp. Power-driven spreader apparatus for fertilizer or the like. 3,017,189, 1–16–62, Cl. 273—8.

Beltone Hearing Aid Co.: *See*—
McCarrell, Stuart G. 3,019,305.
McCarrell, Stuart G., and Wayne. 3,061,689.
Weiss, Erwin. 3,019,304.
Weiss, Erwin M. 3,019,306.
Weiss, Erwin M. 3,019,307.
Weiss, Erwin M. 3,048,668.

Beltrami, Aurelio. Electronic transmitting system. 3,042,747, 7–3–62, Cl. 178—5.6.

Beltx Corp.: *See*—
De Woskin, Irvin S. 3,030,752.
De Woskin, Irvin S. 3,048,176.

Beltz, Klaus: *See*—
Rodis, Franz, Hartlapp, and Beltz. 3,023,083.

Beltz, Lester L., to Ford Motor Co. Electrical system. 3,052,175, 9–4–62, Cl. 98—2.

Belwood Industries, Inc.: *See*—
Moore, Joseph S., Jr. 3,063,768.

Belz, August: *See*—
Kempf, Oskar. 3,066,509.

Beman, Earl R.: *See*—
Bauer, Oliver F., Beman, and Smith. 3,069,779.

Beman, Ward W., to Telecomputing Corp. Guided missile. 3,067,681, 12–11–62, Cl. 102—99.

Beman, Ward W., to Telecomputing Corp. Point of sale recorder. 3,035,764, 5–22–62, Cl. 235—61.9.

Bemberg, J. P., Aktiengesellschaft: *See*—
Pirot, Ernst. 3,044,114.
Pirot, Ernst. 3,050,783.

Bemis Bros. Bag Co.: *See*—
Brady, Charles V. 3,067,926.
Fox, Harold K. 3,046,919.
Helm, Jack D., and Hopkins. 3,050,918.
Helm, Jack D., and Hopkins. 3,051,297.
Hoeppner, Arthur D. 3,023,948.
Hoeppner, Arthur D. 3,069,978.
Hopkins, Frank L. 3,026,017.
Hopkins, Frank L., and Fox. 3,021,939.
Keating, Alexander F. 3,018,943.
Kindseth, Harold V. 3,018,512.
Kindseth, Harold V. 3,023,885.
Kindseth, Harold V. 3,047,137.
Ludlow, Thomas B. 3,024,213.
Ludlow, Thomas B. 3,038,982.
O'Brien, Charles S. 3,048,325.
Ottinger, Augustus F., and Brady. 3,055,576.
Pommer, Dennis L. 3,066,064.
Powers, Irving. 3,022,613.
Voege, James E., and Thomas. 3,046,847.
Williams, Russell J. 3,051,103.

Bemis, Herbert A. Boat wheel attachment. 3,035,282, 5–22–62, Cl. 9—1.

Bemis, Waldo E., to United States of America, Navy. Parachute release mechanism. 3,066,632, 12–4–62, Cl. 114—20.

Bemisch, Friederike E.: *See*—
Ruter, Rudolf G. 3,069,796.

Bemmann, Heinz, to Zeiss Ikon Aktiengesellschaft. Roll film cartridges. 3,037,719, 6–5–62, Cl. 242—71.1.

Bemmann, Rudolf, W. Höringklee, and R. Büchner, to Leuna-Werke "Walter Ulbricht," VEB. Process for the aftercarbonization of alkali-containing phenol oils. 3,036,882, 5–29–62, Cl. 23—64.

Benander, George B., to General Electric Co. Quadruple convenience outlet. 3,017,601, 1–16–62, Cl. 339—157.

Benander, George B., to General Electric Co. Electroluminescent night light. 3,061,716, 10–30–62, Cl. 240—73.

Benard, Madeleine M. M.: *See*—
Maillard, Jacques G. A. E., Moin, and Benard. 3,065,134.

Benavides, Alfonso and U. P. Silk screen printing. 3,023,697, 3–6–62, Cl. 101—129.

Benavides, Ulla P.: *See*—
Benavides, Alfonso and U. P. 3,023,697.

Benbow, Eugene C., and E. C. Knecht, to Westinghouse Electric Corp. Meter apparatus. 3,059,181, 10–16–62, Cl. 324—103.

Benchley, Carl S. Chain tightener. 3,037,743, 6–5–62, Cl. 254—78.

Benckiser, Joh. A., G.m.b.H.: *See*—
Bickel, Wilhelm. 3,029,150.
Buchholz, Karl. 3,032,421.

Benckiser, Joh. A., G.m.b.H. Chemische Fabrik: *See*—
Nielsch, Walter. 3,038,837.
Rudy, Hermann, and Krueger. 3,037,015.
Schulz, Günther. 3,030,287.

Benco Television Associates Ltd.: *See*—
Freen, Philip. 3,064,195.

Bend, Herbert, and J. J. Wilson, to Dowty Mining Equipment Ltd. Breather valves for pit props. 3,021,856, 2–20–62, Cl. 137—43.

Bendall, Wilfrid H. Drive chain. 3,027,774, 4–3–62, Cl. 74—249.

Bendarzewski, Robert H.: *See*—
Schneiderman, Herman, Bendarzewski, and Barney. 3,021,241.

Bendat, Julius S.: *See*—
Anderson, Neal S., Bendat, and Williams. 3,043,515.

Bende, Albert J.: *See*—
Van Scriver, Herbert D., II, Bureau, Bende, and Bowers. 3,061,714.

Bende, Daniel. Flexible connection for welding resistor. 3,067,398, 12–4–62, Cl. 338—319.

Bendell, Curtis B., to International Telephone and Telegraph Corp. Transient response testing apparatus. 3,061,777, 10–30–62, Cl. 324—57.

Bendell, David. Combination desk and couch. 3,041,633, 7–3–62, Cl. 5—2.

Bender, Alfred, to Universal Transistor Products Corp. Transistorized power supply. 3,064,177, 11–13–62, Cl. 321—2.

Bender, Bob G., to Hughes Aircraft Co. Semiconductor device. 3,036,250, 5–22–62, Cl. 317—234.

Bender, Charles E.: *See*—
Gessler, Albert E., Bender, and Parkinson. 3,065,141.

Bender, Emil A., and J. Moon. Material handling device. 3,059,781, 10–23–62, Cl. 212—8.

Bender, Frederick C.: *See*—
Massengale, John T. and Bender. 3,042,655.

Bender, Friedrich: *See*—
Bähring, Herbert, and Bender. 3,052,809.

Bender, Harold M., to British Ropes Ltd. Pressing of fittings onto wire or wire rope. 3,052,276, 9–4–62, Cl. 153—1.

Bender, Harry: *See*—
Pitt, Harold M., and Bender. 3,026,361.

Bender, Houston O.: *See*—
McComb, Clarence L. 3,022,689.

Bender, Howard L.: *See*—
Apel, Francis N., Conte, and Bender. 3,049,568.
Apel, Francis N., Farevaag, and Bender. 3,049,569.

Bender, Lloyd F. Dairy equipment. 3,052,190, 9–4–62, Cl. 103—236.

Bender, Lloyd F. Eaves gutter and supporting means therefor. 3,060,638, 10–30–62, Cl. 50—4.

Bender, Ludwig: *See*—
Bretschneider, Otto, Bender, and Jaekel. 3,017,263.

Bender, Peter J. Explosive pest-scaring device. 3,056,376, 10–2–62, Cl. 116—23.

Bender, Richard B., to Tejas Plastics Materials Supply Co. Support for pipeline. 3,026,076, 3–20–62, Cl. 248—49.

Bender, Richard B., to Texas Plastics Materials Supply Co. Anode assembly for cathodic protection. 3,046,213, 7–24–62, Cl. 204—196.

Bender, William F. Automatically-controlled dental saliva ejector. 3,031,760, 5–1–62, Cl. 32—33.

Bendix Corp., The: *See*—
Adams, Frederick G. 3,061,240.
Adams, Milton R., Peczkowski, and Jandrasi. 3,070,073.
Allen, Joseph W. 3,053,365.
Alper, David. 3,022,459.
Alspach, Wallace J., and Cooper. 3,049,917.
Ardia, Vincent H., and Reckenbell. 3,036,174.
Arnett, Samuel E., and Kerr. 3,018,621.
Austin, Leonard E. 3,015,209.
Austin, Leonard E. 3,055,481.
Austin, Leonard E., and Brown. 3,017,691.
Baker, David C. 3,024,777.
Barfod, Frederik. 3,019,779.
Barnard, William H. 3,049,006.
Barnhart, Harry E. 3,025,488.
Baynes, Gene P., Bickelhaupt, and Backensto. 3,064,343.
Baynes, Gene P., and Jacobsen. 3,027,632.
Beatty, Eugene F. 3,035,870.
Beeberger, Paul F. 3,038,150.
Belmont, Emanuel, and Leinkram. 3,028,529.
Belmont, Emanuel, and Leinkram. 3,041,509.
Bickelhaupt, Roy E., and Masterson. 3,019,514.
Billmeyer, James G. 3,064,769.
Bishop, Alfred F. 3,043,539.
Blair, John W. 3,026,908.
Blair, John W. 3,059,330.
Bodemuller, Rudolph. 3,053,047.
Boler, Leonard J., and Worley. 3,021,670.
Boyer, Raymond. 3,023,924.
Boyer, Raymond. 3,070,058.
Boyer, Raymond, Sr. 3,041,115.
Brook, James E. 3,065,361.
Brush, Robert W. 3,063,032.
Buchanan, John D., and Darney. 3,065,712.

Bendix Corp., The: *See*—Continued
Bulat, Thomas J., 3,047,434.
Bulat, Thomas J., Logan, and Kusy. 3,017,342.
Bunger, Dennen J. 3,019,807.
Burnett, Richard T. 3,021,923.
Burnett, Richard T. 3,032,143.
Burnett, Richard T. 3,051,272.
Burnett, Richard T. 3,064,763.
Burt, Farlow B. 3,064,583.
Byers, James O., Jr. 3,068,805.
Camp, Leon W. 3,058,014.
Carlson, Morris W. 3,068,697.
Carmon, Richard L., and Rogers. 3,034,570.
Cerny, Rudolph J., and Kjellman. 3,030,598.
Chambers, Warren D. 3,044,736.
Chambers, Warren D. 3,059,315.
Chase, Willis E., Jr. 3,022,450.
Chevreux, Gerard. 3,053,234.
Chilton, Edward A. 3,028,534.
Clark, Donald E. 3,049,879.
Collins, Garry G., Jr., and Olson. 3,019,365.
Colt, Rutger B. 3,020,567.
Cosby, James R. 3,019,397.
Creighton, John H. 3,044,654.
Cripe, Maxwell L. 3,031,851.
Cripe, Maxwell L. 3,064,433.
Cubberly, Henry A. 3,030,472.
Danchuk, Alex. 3,035,113.
Daniel, William A. 3,041,699.
Daniel, William A. 3,056,589.
Davis, Jack H. 3,027,519.
Davis, William J. 3,027,485.
Dawes, Leslie J. 3,051,510.
Deane, Theodore E. 3,059,464.
Deinert, Leonard A. 3,056,525.
Desvignes, Jean L., and Gancel. 3,035,664.
Dingman, Glen H. 3,032,735.
Dinsmore, Stanley H., and Lee. 3,017,463.
Doussard, John R. 3,041,529.
Dring, Morgan L. 3,018,043.
Du Bois, William H. 3,064,782.
Eastman, James M. 3,034,569.
Elliott, Richard L., and Joslyn. 3,068,028.
Elliott, Robert A. 3,069,858.
Emenaker, Leo J. 3,017,593.
Ettinger, John H. 3,064,826.
Evans, David C., Magnuson, Monroe, and Prothers. 3,025,124.
Evans, David C., and Ochi. 3,025,499.
Fay, Louis E., III. 3,028,092.
Fennick, Benjamin. 3,030,522.
Ferguson, John H., Jr. 3,066,487.
Ferguson, John H., Jr., and Schmider. 3,021,672.
Foerch, Francis X. 3,060,366.
Friend, Lindsay C. 3,041,733.
Gardner, Paul J. 3,043,466.
Gardner, Paul J. 3,046,751.
German, Richard C., Arnett, and Roberts. 3,019,597.
Giel, George J. 3,050,718.
Goerke, James R. 3,018,763.
Goldberg, Edward, Barash, and Moreines. 3,067,969.
Gray, Lowell C., and Bishop. 3,070,730.
Grosbaum, Eugene, and Worthington. 3,047,790.
Haase, Elmer A., Nobles, Schnaible, and McCombs. 3,023,575.
Hager, Robert R. 3,023,053.
Hager, Robert R. 3,040,534.
Hager, Robert R. 3,053,735.
Hager, Robert R. 3,064,429.
Hartin, William J. 3,038,847.
Harrison, Myron L. 3,044,268.
Hegg, Billy S., and Peters. 3,031,840.
Hemphill, Alfred A., and Tewksbury. 3,034,122.
Hemphill, Alfred A., and Tewksbury. 3,040,260.
Hemphill, Alfred A., and Tewksbury. 3,040,269.
Hennessey, Walter F., Jr. 3,025,487.
Herron, Robert H., Reed, and Roth. 3,021,592.
Herron, Robert H., Vogan, and Scruggs. 3,055,769.
Hoagnson, Eugene M. 3,055,086.
Hood, Edwin E. 3,070,199.
Hood, Edwin E., and Gleasman. 3,022,682.
Hoof, Robert G. 3,027,775.
Horrell, Maurice W. 3,056,550.
Hosford, Norman F. 3,047,001.
Humble, John A. 3,018,664.
Hurlburt, Charles E. 3,032,886.
Hurtle, James E. 3,040,529.
Kaiser, Robert P., and Daulton. 3,070,735.
Kampmeyer, Roy A. 3,047,655.
Kasten, Walter. 3,034,656.
Kasten, Walter. 3,064,818.
Keller, Herman, and Waldron. 3,028,776.
Keyworth, James C. 3,030,048.
King, Blaine H. 3,034,001.
Kinney, John F. 3,023,801.
Kishbaugh, Warren E. 3,015,794.
Kitchen, Morrison G., and Schaffer. 3,021,891.
Larsen, Lester J., and Lewis. 3,019,816.
Laucks, Howard H., O'Connor, and Cuny. 3,052,252.
Lee, Robert A., and Olson. 3,047,764.
Lee, Robert M. 3,056,948.

Bendix Corp., The: *See*—Continued
Leinkram, Charles Z. 3,019,142.
Leinkram, Charles Z., and Scholer. 3,024,519.
Lobdell, Roy K. 3,028,118.
Logan, James J. 3,025,425.
Long, Emile D., and Banks. 3,032,025.
Longstreet, Charles S. 3,021,668.
Lorenz, Alan A. 3,040,582.
Loveland, Monte H. 3,030,015.
Lowrance, John L. 3,032,703.
MacDuff, Stanley I. 3,017,945.
Magnuson, Vernon P. 3,024,990.
Malkiel, Saul L. 3,060,718.
Martin, Frederick W. 3,031,884.
Martin, Wesley L. 3,043,907.
Masterson, James F., and Ferguson. 3,037,860.
Maynard, Charles E. 3,050,945.
McCombs, Howard L., Jr. 3,015,338.
McCombs, Howard L., Fodroci, and Hawk. 3,040,715.
McWilliams, Charles W. 3,034,032.
Meddock, Alvin A. 3,068,898.
Miller, Donald L. 3,016,122.
Mock, Frank C. 3,021,673.
Mock, Frank C. 3,025,668.
Mock, Frank C. 3,066,488.
Moeller, Alvin W., and Neuberth. 3,024,463.
Moeller, Alvin W., and Shelor. 3,031,661.
Morgan, William H. 3,068,692.
Mossey, Joseph L. 3,068,965.
Moyer, Edward L. 3,044,154.
Murphy, Norman B. 3,038,352.
Nawrot, James J. 3,023,853.
O'Neill, James P. 3,066,686.
Osborne, Albert H. 3,044,808.
Perkey, Russell C., and Satory. 3,046,740.
Pickens, Robert A. 3,021,454.
Pocock, Robert C. 3,027,979.
Potter, Frederick M. 3,056,914.
Powlas, James J. 3,023,852.
Prather, Edwin E. 3,021,821.
Prather, Edwin E. 3,031,850.
Price, Earl R. 3,027,879.
Price, Earl R. 3,044,449.
Price, Earl R. 3,049,099.
Price, Earl R. 3,055,720.
Price, Earl R., Blair, and Davis. 3,032,064.
Price, Earl R., and Hupp. 3,031,849.
Puryear, David B. 3,070,031.
Roberti, Michael A., and Walter. 3,049,660.
Roberts, George I. 3,055,601.
Roberts, George I. 3,061,211.
Roberts, George I. 3,061,212.
Robinson, Arthur S. 3,021,072.
Rogers, Francis R. 3,050,941.
Rogers, Raymond R. 3,051,528.
Rossire, Francis H. S. 3,017,142.
Rothfuss, Neal B. 3,047,010.
Ruble, Robert H. 3,050,861.
Ruble, Robert H. 3,055,093.
Rudisch, Walter E. Re. 25,299.
Rudisch, Walter E. 3,028,737.
Ruscito, Anthony J. 3,026,457.
Saari, John M., Damoth, and Wiley. 3,049,638.
Schebler, Bernard J. 3,060,359.
Schultz, Harold B. 3,023,997.
Sekella, Youston. 3,064,480.
Shaffer, Stewart M. 3,059,123.
Sheler, Milo W. 3,023,827.
Shramek, Ladd C. 3,069,727.
Shutt, Paul B. 3,064,432.
Shutt, Paul B. 3,068,651.
Slaats, Matthew A., and Manson. 3,066,188.
Slavin, Michael, and Hooten. 3,040,214.
Smith, William J. 3,052,833.
Sobchak, John. 3,044,047.
Spencer, Glenn S. 3,049,944.
Stanton, George E. 3,018,852.
Stanton, George E. 3,032,144.
Stauder, Lawrence E. 3,024,374.
Stoudenmire, Jay H. 3,051,882.
Swanson, George J., and Kokalas. 3,023,396.
Swanson, Hilmer I. 3,060,298.
Swats, John H., and Hagerty. 3,069,764.
Sylvander, Frederick B. 3,028,149.
Tepolt, Florian E., and Heaslip. 3,019,356.
Thomas, Jacob E., Jr. 3,063,129.
Thompson, Earl R., Jr. 3,022,484.
Thompson, Thomas J., and Hegg. 3,049,139.
Tognola, Tullio. 3,018,732.
Tracey, John E., and Wheeler. 3,043,165.
Troeger, Henry. 3,019,659.
Troeger, Henry, and Clinton. 3,048,364.
Twaddell, Russell W., and Gregoire. 3,020,449.
Unger, Arnold, and Diani. 3,055,617.
Unger, Arnold, and James. 3,038,146.
Vick, Ralph L. 3,034,301.
Vogtmann, Henry W. 3,066 288.
Volk, Emil A., Jr. 3,046,741.
Warsher, Adolph. 3,069,622.
Weber, Gifford A. 3,062,053.
Werts, Wayne E. 3,018,622.
Wieger, George F. 3,064,767.
Wiert, James A. 3,038,142.

Bendix Corp., The: *See*—Continued
Wiesner, Harold J. 3,065,154.
Wilhelm, Francis A. 3,044,294.
Williamson, John R., and Doussard. 3,015,210.
Williamson, John R., and Hawk. 3,040,522.
Williamson, Joseph R., and Billmeyer. 3,020,634.
Wintrode, Warner C., and Hartman. 3,028,526.
Wischhusen, Egon H. 3,024,326.
Wofford, George D. 3,038,127.
Zeisloft, Harry C. 3,021,674.
Ziegler, John C., Beauregard, and Langer. 3,057,585.
Ziniuk, Michael A., and Chapelle. 3,037,383.
Zito, George V., and Chilton. 3,044,012.
Bendix Ericsson U.K. Ltd.: *See*—
Warren, George. 3,069,881.
Bendix-Westinghouse Automotive Air Brake Co.: *See*—
Augustin, Darold A. 3,015,213.
Fitch, Ellery R. 3,021,181.
Gates, Charles E. 3,026,103.
Gresko, Raymond S. 3,021,177.
Gresko, Raymond S. 3,023,765.
Kenfield, Kenneth R. 3,025,869.
Morse, Robert J. 3,059,975.
Murty, Anthony F., and Benedict P. 3,020,094.
Savage, Russell C. 3,015,339.
Shumaker, John F. 3,057,540.
Stoudt, George W. 3,052,489.
Bendixen, Bendix L., and K. Rosengreen. Articles of furniture. 3,027,571, 4–3–62, Cl. 5—59.
Bendror, Jack: *See*—
Robbins, Leo, and Bendror. 3,068,841.
Benedetti, Luigi. Process for making phosphorus ester lube oil additive. 3,045,037, 7–17–62, Cl. 260—461.
Benedic, Eric: *See*—
Prat, Andre L. F. 3,045,537.
Benedict, Marcus C., to United States of America, Navy. Exhaust nozzle. 3,048,973, 8–14–62, Cl. 60—35.6.
Benedict, Marcus C., to United Aircraft Corp. Rocket ignitor. 3,057,159, 10–9–62, Cl. 60—39.82.
Benedict, Robert G., A. R. Jeanes, L. J. Wickerham, and S. P. Rogovin, to United States of America, Agriculture. Phosphomannan NRRL Y–2448. 3,021,323, 2–13–62, Cl. 260—234.
Beneke, Charles J., to Reynolds Metals Co. Forming system. 3,054,176, 9–18–62, Cl. 29—528.
Benes, Gordon J., to Enco Mfg. Co. Adjustable live center. 3,057,238, 10–9–62, Cl. 82—33.
Benes, William S., to Cullen-Friestedt Co. Driving mechanism for work-positioning tables. 3,022,066, 2–20–62, Cl. 269—61.
Benetta, Gianni: *See*—
Gatta, Giorgio, and Benetta. 3,049,520.
Benevento, Albert J. Pressurizing apparatus. 3,024,044, 3–6–62, Cl. 284—10.
Ben-Ezra, Aaron, and C. E. Rose, to General Aniline & Film Corp. Method of incorporating color couplers in hydrophilic colloids. 3,050,394, 8–21–62, Cl. 96—100.
Ben-Ezra, Aaron J., to General Aniline & Film Corp. Photographic film and a composition for improving the slippage characteristics thereof. 3,042,522, 7–3–62, Cl. 96—87.
Benezra, Leo L.: *See*—
Abrams, Irving M., Benezra, and Goold. 3,028,361.
Benfer, David V., and R. B. Gardner, to AMP Inc. Hand tool for wrapping helical tubing. 3,022,959, 5–8–62, Cl. 57—10.
Benfer, David V., and R. B. Gardner, to AMP Inc. Machine for wrapping helically split tubing. 3,059,404, 10–23–62, Cl. 57—6.
Benfield, John D., and R. R. Kozinski. Pipe and tubing bender. 3,063,314, 11–13–62, Cl. 81—15.
Benford, James R., to Bausch & Lomb Inc. Reticle for sighting instruments. 3,023,504, 3–6–62, Cl. 33—50.
Benford, James R., to Bausch & Lomb Inc. Illuminating means for opaque materials. 3,035,486, 5–22–62, Cl. 88—40.
Bengelsdorf, Irving S.: *See*—
Willcockson, George W., Hunter, and Bengelsdorf. 3,069,454.
Bengert, Harry C. Tire chain. 3,025,901, 3–20–62, Cl. 152—239.
Bengtsson, Bengt E. T.: *See*—
Teiling, Torbern, and Bengtsson. 3,020,538.
Bengtsson, Sigurd W. Devices for fish tackles. 3,032,912, 5–8–62, Cl. 43—43.13.
Benham, Kent W., to The Sanymetal Products Co., Inc. Door operating hinge assembly. 3,026,559, 3–27–62, Cl. 16—182.
Benham, Kent W., to The Sanymetal Products Co., Inc. Sanitary partitioning cubicles. 3,056,475, 10–2–62, Cl. 189—46.
Benham, Kent W., to The Sanymetal Products Co., Inc. Partitioning cubicles. 3,060,523, 10–30–62, Cl. 20—16.
Benichasa, Thomas J., to K. Wysocki. Apparatus for applying push button to canister valve stems. 3,039,179, 6–19–62, Cl. 29—208.
Benichasa, Thomas J., and J. D. Stenger, to K. Wysocki. Device for automatically orienting, delivering and inserting combined valve and dip tube in aerosol containers. 3,054,170, 9–18–62, Cl. 29—208.
Benichou, Robert, to Compagnie Generale de Telegraphie Sans Fil. High-melting-point seals. 3,036,675, 5–29–62, Cl. 189—36.5.
Benioff, Hugo, to The Baldwin Piano Co. Electro-piano. 3,049,958, 8–21–62, Cl. 84—1.16.
Benjamin, Alan L. Cigarette package. 3,052,398, 9–4–62, Cl. 229—20.
Benjamin, Alfred. Stainless steel scouring pads. 3,039,125, 6–19–62, Cl. 15—118.
Benjamin, Chester R., W. F. Hendershot, and C. W. Hesseltine, to United States of America, Agriculture. Fermentative process of producing lactone of 2-oxo-6(2-hydroxypropyl)-cyclohexane carboxylic acid. 3,063,909, 11–13–62, Cl. 195—35.
Benjamin, Cyril M. Spring assemblies for seats, settees, beds and the like. 3,057,613, 10–9–62, Cl. 267—103.
Benjamin, Homer H., and L. V. P. Grotto. Hand scoop. 3,026,138, 3–20–62, Cl. 294—55.
Benjamin, John W., to Cherry-Burrell Corp. Conveyor chain. 3,066,549, 12–4–62, Cl. 74—254.
Benjamin, Julien P., Equipment Co.: *See*—
Whitley, William J., Jr., and Evans. 3,032,239.
Benjamin, Milton L., to Erickson Tool Co. Collet chuck. 3,035,845, 5–22–62, Cl. 279—47.
Benjamin, Milton L., and D. D. Walker, to Erickson Tool Co. Automatic indexer with safety interlocks. 3,035,461, 5–22–62, Cl. 74—822.
Benjamin, Milton L., and E. L. J. Syrene, to Erickson Tool Co. Spade drill and grinding fixture therefor. 3,049,033, 8–14–62, Cl. 77—68.
Benjamin, Milton L., and D. D. Walker, to Erickson Tool Co. Chuck for gears and the like. 3,064,985, 11–20–62, Cl. 279—4.
Benjamin, Milton L., and E. L. J. Syrene, to Erickson Tool Co. Grinding fixture for spade drill and the like. 3,065,580, 11–27–62, Cl. 51—220.
Benjamin, Warren O., to Corning Glass Works. Prismatic light transmitting panel. 3,068,754, 12–18–62, Cl. 88—57.5.
Benjamin, Wesley R.: *See*—
Charles, David H., Benjamin, Grigsby, and Busch. 3,069,979.
Benjetsky, Louis. Reciprocating type actuating means. 3,025,372, 3–13–62, Cl. 200—87.
Benka, Eugene A., and L. E. Kotecki. Folding tent. 3,055,586, 9–25–62, Cl. 135—1.
Benkenstein, Walter, to VEB Mansfield Hutten-Kombinat Wilhelm Pieck. Furnace cleaning device. 3,025,548, 3–20–62, Cl. 15—104.16.
Benkoczy, Andrew J., and D. S. Grant, to Dayton Aircraft Products, Inc. Static discharger. 3,034,020, 5–8–62, Cl. 317—2.
Benkoe, Erwin, to Transogram Co., Inc. Toy guns. 3,022,779, 2–27–62, Cl. 124—11.
Benkoe, Erwin, to Transogram Co., Inc. Readily assemblable, multiple piece top targets. 3,029,077, 4–10–62, Cl. 273—102.5.
Benmore, Stanley H., to Holley Carburetor Co. Fuel bowl float. 3,059,661, 10–23–62, Cl. 137—39.
Benmussa, Henri and J. P. Le Corre, to International Standard Electric Corp. Automatic telephone switching system. 3,053,935, 9–11–62, Cl. 179—18.
Benmussa, Henri, J. P. Le Corre, and C. Weill, to International Standard Electric Corp. Magnetic circuits. 3,056,038, 9–25–62, Cl. 307—88.
Benn, Heinz: *See*—
Gisiger-Stähli, Josef, and Benn. 3,032,651.
Benn, Robert E., to Burroughs Corp. Atmosphere for electrographic printing. 3,023,070, 2–27–62, Cl. 346—74.
Benn, Robert E., R. S. Howell, and R. S. Sakurai, to Burroughs Corp. Electrographic recording apparatus. 3,068,479, 12–11–62, Cl. 346—74.
Benner, Floyd E., Jr., D. H. Eisenlohr, and D. A. Reich, to Pittsburgh Plate Glass Co. Continuous process for producing methyl chloroform. 3,059,035, 10–16–62, Cl. 260—658.
Benner, Inc.: *See*—
Schiemer, Charles J. 3,021,553.
Benner-Nawman, Inc.: *See*—
Nawman, Rollie B. 3,054,515.
Benner, Winfield H., and L. G. Wynne, to Sigma Instruments, Inc. Mounting element for photoelectric control unit or similar article. 3,031,582, 4–24–62, Cl. 250—239.
Bennet, Eugene L., to Laboratory Equipment Corp. Stopcock. 3,019,808, 2–6–62, Cl. 137—246.
Bennet, Eugene L., to Laboratory Equipment Corp. Apparatus for combustion analysis. 3,058,814, 10–16–62, Cl. 23—253.
Bennetch, Leonard M., C. P. West, and H. H. Leiner, to Reichard-Coulston, Inc. Corrosion inhibitive pigment. 3,017,283, 1–16–62, Cl. 106—304.
Bennett, Albert E. Temperature control for a compartmental vehicle. 3,028,471, 4–3–62, Cl. 219—20.
Bennett, Allan L., to Westinghouse Electric Corp. Crystal growing process. 3,058,915, 10–16–62, Cl. 252—62.3.
Bennett, Allan L., Jr., to Westinghouse Electric Corp. Process for producing crystals and the products thereof. 3,031,403, 4–24–62, Cl. 252—62.3.
Bennett, Bailey: *See*—
Yurgen, William J., Bennett, and Palinchak. 3,054,843.
Bennett, Bailey, L. E. Novy, and F. A. Simko, Jr., to E. I. du Pont de Nemours and Co. Process for reinforcing a preformed elastomer foam. 3,057,750, 10–9–62, Cl. 117—98.
Bennett, Charles H. Trim attachment for power boats. 3,062,167, 11–6–62, Cl. 114—66.5.

Bennett, Edward D., to Western Electric Co., Inc. Set screw orienter. 3,035,681, 5–22–62, Cl. 198—33.
Bennett, Edward O., to Texaco Inc. Bacteria inhibited soluble oil composition. 3,033,785, 5–8–62, Cl. 252—33.3.
Bennett, Edward O., to Texaco Inc. Bacteria inhibited soluble oil. 3,039,960, 6–19–62, Cl. 252—33.3.
Bennett, Edward O., and E. B. Hodge, to Commercial Solvents Corp. Process for the control of bacteria in a flooding process for the recovery of petroleum oil. 3,024,190, 3–6–62, Cl. 252—8.55.
Bennett, Edward O., and E. B. Hodge, to Commercial Solvents Corp. Process for the control of bacteria in a flooding process for the recovery of petroleum oil. 3,024,192, 3–6–62, Cl. 252—8.55.
Bennett, Edward O., and E. B. Hodge, to Commercial Solvents Corp. Process for the control of bacteria in water flooding operations in secondary oil recovery. 3,054,749, 9–18–62, Cl. 252—8.55.
Bennett, Frank C., Jr.: *See*—
Dunn, Joseph S., and Bennett. 3,017,296.
Hammar, Gustaf W., and Bennett. 3,063,862.
Sugarman, Meyer L., Jr., Bennett, and Hammar. 3,063,-861.
Bennett, Geoffrey E., to Dussek Bros. & Co. Ltd. Electric cables and condenser insulation including wax and petroleum. Re. 25,187, 6–19–62, Cl. 260—27.
Bennett, Gordon H. Lifting, loading or stacking equipment. 3,030,138, 4–17–62. Cl. 294—63.
Bennett, Harry L.: *See*—
Lovett, William E., and Bennett. 3,056,338.
Bennett, Harvey E. Water ski tow line reel. 3,021,088, 2–13–62, Cl. 242—86.8.
Bennett, James A., and C. H. R. Campling. Self-locking polyphase magnetic inverter 3,026,484, 3–20–62, Cl. 321—47.
Bennett, John, P. E. Chaney, J. W. Jones, and F. M. Mayes, to Sun Oil Co. Bore hole logging methods and apparatus. 3,047,794, 7–31–62, Cl. 324—10.
Bennett, John, and F. M. Mayes, to Sun Oil Co. Bore hole logging methods and apparatus. 3,047,796, 7–31–62, Cl. 324—10.
Bennett, John, P. E. Chaney, J. W. Jones, and F. M. Mayes, to Sun Oil Co. Bore hole logging apparatus. 3,052,838, 9–4–62, Cl. 324—10.
Bennett, John A.: *See*—
Blunt, George, and Bennett. 3,022,957.
Bennett, John B., J. B. Bream, D. J. Hadley, and B. Wood, to British Hydrocarbon Chemicals Ltd. Production of conjugated diolefines. 3,056,845, 10–2–62, Cl. 260—68.
Bennett, John D., to Sun Oil Co. Dynamometer. 3,023,615, 3–6–62, Cl. 73—143.
Bennett, John D., to Sun Oil Co. Means for the controlled injection of a liquid additive. 3,064,679, 11–20–62, Cl. 131—164.5.
Bennett, John D., and F. M. Mayes, to Sun Oil Co. Apparatus for bore hole drill and logging. 3,016,963, 1–16–62, Cl. 175—92.
Bennett, John E.: *See*—
Stoops, Sherman L., and Bennett. 3,056,890.
Bennett, John M., to Leather Industries, Inc. Substitute leathers and the manufacture thereof. 3,051,612, 8–28–62, Cl. 162—151.
Bennett, Moreland P., and C. W. Levesque, to General Electric Co. Welded structure and welding process for making the same. 3,067,488, 12–11–62, Cl. 29—155.5.
Bennett, Norman J. H., to Vickers Ruwolt Proprietary Ltd. Apparatus for filling containers with liquid. 3,043,349, 7–10–62, Cl. 141—59.
Bennett, Orvan J. Flush valve guide. 3,019,449, 2–6–62, Cl. 4—57.
Bennett, Ovell F., M. L. Huber, and R. A. Smiley, to E. I. du Pont de Nemours and Co. Polycarboxydiphenyl sulfones and anhydrides thereof. 3,022,320, 2–20–62, Cl. 260—346.3.
Bennett, Peter H., and E. E. Bauman, to North Electric Co. Translator device for automatic telephone system. 3,046,-351. 7–24–62. Cl. 179—18.
Bennett, Ralph E.: *See*—
Sih, Charles J., and Bennett. 3,047,469.
Bennett, Ralph V.: *See*—
Tancred, William L., and Bennett. 3,055,580.
Bennett, Richard J.: *See*—
Pryor, Robert C., and Bennett. 3,055,427.
Bennett, Robert N., and R. W. Vaughan, to Be-Ge Mfg. Co. Gear pump or motor. 3,051,091, 8–28–62, Cl. 103—126.
Bennett, Rufus B.: *See*—
Hunt, William T., Compton, and Bennett. 3,034,654.
Bennett, Rufus B., and F. Hederhorst, to Esso Research and Engineering Co. Apparatus for purifying hydrocarbons by crystallization. 3,038,789, 6–12–62, Cl. 23—273.
Bennett, Sachiko: *See*—
Ziffer, Jack, Bennett, Cairney, and Chow. 3,032,471.
Ziffer, Jack, Chow, Cairney, and Bennett. 3,032,470.
Bennett, Sedgwick R., to Sylvania Electric Products Inc. Photoflash lamp having an anti-static coating. 3,060,710, 10–30–62, Cl. 67—31.
Bennett, Sedgwick R., and A. Mertz, to Sylvania Electric Products Inc. Method of filling flashbulbs. 3,058,499, 10–16–62, Cl. 141—9.
Bennett, Vernard B. Centrifugal concrete cleaner. 3,061,860, 11–6–62, Cl. 15—93.
Bennett, Vernard B. Chipper hammer. 3,061,863, 11–6–62, Cl. 15—236.
Bennett, Wallis R.: *See*—
Kline, Clifford W., and Bennett. 3,047,359.
Bennett, Willard H. Charged particle accelerator. 3,019,394, 1–30–62, Cl. 328—235.
Bennett, Willard H. Space simulating device and method. 3,044,301, 7–17–62, Cl. 73—432.
Bennett, William D.: *See*—
Goy, Ronald S., and Bennett. 3,042,956.
Bennett, William D., and R. S. Goy, to Dunlop Tire and Rubber Corp. Apparatus for the heat treatment of sheet materials. 3,061,943, 11–6–62, Cl. 34—95.
Bennett, William D., and M. F. Jenkins, to Dunlop Rubber Co. Ltd. Wheels for pneumatic tyres. 3,063,488, 11–13–62, Cl. 152—10.
Bennett, William E., J. Nooteboom, and S. K. Weissberg, to Telecomputing Corp. Roll stabilization free gyro system. 3,053,099, 9–11–62 Cl. 74—5.4.
Bennett, William N. Dashboard shift for motorboats. 3,018,669, 1–30–62, Cl. 74—473.
Bennett, Worthy L., ¼ to K. Norton. Liquid pump. 3,043,228, 7–10–62, Cl. 103—38.
Benning, Calvin J.: *See*—
Hoeg, Donald F., and Benning. 3,062,801.
Benning, Calvin J., to W. R. Grace & Co. Polydivinylbenzene. 3,052,523, 9–4–62, Cl. 260—93.5.
Benning, Calvin J., to W. R. Grace & Co. Process for polymerizing vinyl esters with a catalyst system of an aluminum alkyl compound and an ether. 3,052,661, 9–4–62, Cl. 260—89.1.
Benning, Calvin J., to W. R. Grace & Co. Process for polymerizing vinyl esters with a catalyst system of an aluminum alkyl compound and a ketone. 3,053,822, 9–1–62, Cl. 260—89.1.
Benning, Calvin J., to W. R. Grace & Co. Ball milling apparatus. 3,060,006, 10–23–62, Cl. 23—289.
Benning, Calvin J., and W. R. Wszolek, to W. R. Grace & Co. Polymerization of ethylene with a catalyst of TiCls ground in propylene. 3,046,266, 7–24–62, Cl. 260—94.9.
Benning, Norman H.: *See*—
Haslett, Roy W. G., Hopkin, and Benning. 3,019,411.
Benninger A.G., Maschinenfabrik: *See*—
Coester, Robert. 3,033,441.
Hablutzel, Emil, and Haeusermann. 3,058,327.
Stöbi, Johann. 3,055,083.
Benninghoff, William L. Relief means for preventing interruption of the forming cycle of an upset forging machine due to over-travel of gripper die. 3,041,899, 7–3–62, Cl. 78—13.
Bennion, David R.: *See*—
Crane, Hewitt D., and Bennion. 3,026,421.
Crane, Hewitt D., Bennion, and Heinzmann. Re. 25,148.
Crane, Hewitt D., Bennion, and Heinzmann. 3,037,198.
Bennion, David R., to Burroughs Corp. Flux boost circuit for a magnetic core register. 3,034,108, 5–8–62. Cl. 340—174.
Bennison, Michael N., to Clarkson (Textiles) Ltd. Stitching of materials. 3,034,458, 5–15–62, Cl. 112—2.
Benoit, Conrad H., to Northrop Corp. Pivot-type self-aligning hydrostatic bearing assembly. 3,016,273, 1–9–62, Cl. 308—72.
Benoit, Edward J. Child's auto safety seat. 3,061,371, 10–30–62. Cl. 297—256.
Benoit, George J., Jr., to California Research Corp. Preparation of hydrocarbon substituted succinic acid anhydrides. 3,030,387, 4–17–62, Cl. 260—346.8.
Benoit-Gonin, Roger S.: *See*—
Maniere, Maurice A. F. J., and Benoit-Gonin. 3,023,269.
Benoit, Henry F. Spool. 3,022,962, 2–27–62, Cl. 242—118.61.
Benoit, Luis V. Internal combustion engine. 3,068,639, 12–18–62, Cl. 60—13.
Benoit, Remi A. Fans. 3,059,833, 10–23–62, Cl. 230—119.
Benovic, Bernard. Urine retaining device. 3,035,579, 5–22–62. Cl. 128—295.
Benozzo, Marino, to Loro & Parisini S.p.A. Apparatus for the froth-flotation of minerals. 3,070,229, 12–25–62, Cl. 209—169.
Benri, Louis W., to Ace Electronics Associates, Inc. Plug-in potentiometers. 3,048,805, 8–7–62, Cl. 338—221.
Benruth Engineering and Mfg. Co., Inc.: *See*—
Clarke, Glenn E., and Laskey. 3,055,269.
Bensch, Emil, and A. Brugger, to Industriewerk Schaeffler oHG. Adjustable clearance antifriction bearing. 3,053,591, 9–11–62, Cl. 308—207.
Ben-Sira, Moshe Y., and B. Pratt, to International Rectifier Corp. Silicon photoelectric cell. 3,053,926, 9–11–62, Cl. 136—89.
Bensky, Lowell S., and D. L. Nettleton, to Radio Corp. of America. Digital computing system. 3,016,194, 1–9–62, Cl. 235—157.
Bensky, Lowell S., and I. H. Sublette, to Radio Corp. of America. Digital computing systems. 3,023,964, 3–6–62, Cl. 235—176.
Bensky, Lowell S., D. L. Nettleton, and A. D. Beard, to Radio Corp. of America. Pulse generating system. 3,054,958, 9–18–62, Cl. 328—56.
Benson, Allen B.: *See*—
Weiss, Cornelius F., Jr., and Benson. 3,070,780.
Benson, Allen B., to International Business Machines Corp. Single shot multivibrator using series-resonant cross-coupling for resetting fixed time interval after triggering. 3,065,362, 11–20–62, Cl. 307—88.5.

Benson, Charles L., and S. C. Tingquist, to Howe Sound Co. Making refractory shell molds. 3,048,905, 8–14–62, Cl. 22—193.

Benson, Donald E., E. A. Lejeck, A. J. Karsten, and A. J. Whitcomb, to Koppers Co., Inc. Hot blast stoves. 3,024,-014, 3–6–62, Cl. 263—19.

Benson, Donald H.: *See*—
Pratt, Willard R., and Benson. 3,069,816.

Benson, Donald L., to United-Carr Fastener Corp. Electrical assembly. 3,050,705, 8–21–62, Cl. 339—17.

Benson, Donald O.: *See*—
Horner, Herbert F., Kroll, and Benson. 3,049,853.

Benson, Fritz C.: *See*—
Hendrick, Hobart J., and Benson. 3,036,329.
Morse, John B., and Benson. 3,050,770.

Benson, Fritz C., to The H. B. Ives Co. Magnetic door latch. 3,055,690, 9–25–62, Cl. 292—251.5.

Benson, George O. Awning. 3,053,317, 9–11–62, Cl. 160—81.

Benson, Harold R., to The Nuarc Co. Photographic printer. 3,045,204, 7–10–62, Cl. 95—76.

Benson, Homer E., and J. H. Field, to United States of America, Interior. Process for manufacturing mixtures of hydrogen, carbon monoxide and methane. 3,031,287, 4–24–62, Cl. 48—197

Benson, Jack J.: *See*—
Jones, John F., Williams, and Benson. 3,052,305.
Williams, Sam B., and Benson. 3,023,577.
Williams, Sam B., and Benson. 3,039,265.

Benson, John B. Building clip. 3,029,560, 4–17–62, Cl. 50—215.

Benson Mfg. Co.: *See*—
Nelson, Ivan J. 3,065,883.

Benson, Milton L., and C. Breen, to Bell Telephone Laboratories, Inc. Registration control circuit. 3,050,588, 8–21–62, Cl. 179—18.

Benson, Richard E., and J. C. Thomas, to E. I. du Pont de Nemours and Co. Polycyclic fused ring ferrous group metal compounds. 3,052,704, 9–4–62, Cl. 260—439.

Benson, Robert W., and J. F. Wirley, to Xerox Corp. Sheet feed mechanism. 3,062,534, 11–6–62, Cl. 271—36.

Benson, William L., Jr. Open slip facility. 3,024,753, 3–13–62, Cl. 114—5.

Benson, William L., Jr. Floatable housing. 3,053,216, 9–11–62, Cl. 114—5.

Bent, Arthur J., to Westinghouse Air Brake Co. Aircraft brake stabilizing arrangement. 3,018,073, 1–23–62, Cl. 244—111.

Bent, William H., to Dunlop Rubber Co. Ltd. Fluid pressure generator and accumulator assembly. 3,044,405, 7–17–62, Cl. 103—50.

Bentele, Gerhard O., and C. M. McClure, to United States Rubber Co. Methods and apparatus for making inflatable cushions. 3,048,514, 8–7–62, Cl. 156—145.

Bentele, Max, to Curtiss-Wright Corp. Rotating combustion engine seal construction. 3,033,180, 5–8–62, Cl. 123—8.

Bentele, Max, to Curtiss-Wright Corp. Multi-unit rotary engine. 3,062,435, 11–6–62, Cl. 230—145.

Bentley, Alfred D. Support harness. 3,062,585, 11–6–62, Cl. 297—389.

Bentley, Arthur. Gear type hydraulic coupling. 3,051,283, 8–28–62, Cl. 192—61.

Bentley Engineering Co. Ltd., The: *See*—
Deans, Frederick E. 3,068,673.
Deans, Frederick E., and Wainwright. 3,057,176.
Peberdy, Roland. 3,046,760.
Wainwright, Carlyle H. 3,018,646.
Wainwright, Carlyle H., and Deans. 3,022,652.

Bentley, Floyd E., to Jefferson Chemical Co., Inc. Stabilization of polypropylene with 2,2'-methylene bis(4,6 di-tert-butyl resorcinol). 3,055,862, 9–25–62, Cl. 260—45.95.

Bentley, George P., and L. E. Dueger, to Sperry Rand Corp. Gyro caging apparatus. 3,020,769, 2–13–62, Cl. 74—5.1.

Bentley, George W.: *See*—
Noble, Jack D., Bentley, and Rice. 3,033,381.
Noble, Jack D., Bentley, and Rice. 3,033,382.

Bentley, James S., to Teleflex Inc. Apparatus having fairlead and sealing structure for accommodating control cable and the like. 3,038,730, 6–12–62, Cl. 277—4.

Bentley, James S., to Teleflex Products Ltd. Safety harness. 3,058,687, 10–16–62, Cl. 242—107.4.

Bentley, John M.: *See*—
Aarons, Melvin W., Dzimianski, and Bentley. 3,018,423.

Bentley, Stanley: *See*—
Tiedeman, Robert K., and Bentley. 3,065,833.

Bently, Donald E., and R. L. Price, to Systron-Donner Corp. Force measuring system. 3,037,195, 10–9–62, Cl. 73—141.

Benton, Robert C., to Centre Circuits, Inc. Servosystem for telescoped command and following shafts with servomotor drive control. 3,039,033, 6–12–62, Cl. 318—31.

Benton, Robert C., to Centre Circuits, Inc. Indexing mechanism. 3,040,603, 6–26–62, Cl. 77—32.2.

Benton, Robert C., to Centre Circuits, Inc. Indexing mechanism. 3,040,604, 6–26–62, Cl. 77—64.

Benton, Robert C., to Centre Circuits, Inc. Transducer-controlled servo-mechanism. 3,050,034, 8–21–62, Cl. 121—38.

Benton-Williams Co., Inc.: *See*—
Skudd, Benton J. 3,025,532.

Bentov, Itzhak, to W. R. Grace & Co. Process of making surface coats for masonry building units. 3,021,573, 2–20–62, Cl. 18—60.

Bentov, Itzhak, to W. R. Grace & Co. Scratch masking coating composition for masonry comprising a polyester resin, sand and mineral oil. 3,051,678, 8–28–62, Cl. 260—33.6.

Bentsen, Donald L. Tank lift. 3,039,628, 6–19–62, Cl. 214—75.

Bentzinger Bros., Inc.: *See*—
Ehrler, John W. 3,035,693.

Bentzman Louis, to Lanston Industries, Inc. Lens board mounting arrangements. 3,060,825, 10–30–62, Cl. 95—51.

Benua, Louis P., and W. Taylor, to The Ebco Mfg. Co. Water cooler and dispenser. 3,060,703, 10–30–62, Cl. 62—394.

Ben Uri, Maier: *See*—
Grunt, Max, and Ben Uri. 3,016,583.

Benway, Richard F., and D. F. Tulloch. Photoelectric off-peak control switch. 3,033,969, 5–8–62, Cl. 219—20.

Benway, Robert E., to Radio Corp. of America. Electron guns. 3,027,479, 3–27–62, Cl. 313—82.

Benz & Hilders, Maschinenfabrik, Fa.: *See*—
Steinkemper, Bernhard, Weidenhaupt, and Bongartz. 3,048,922.

Benz, Jakob, L. Schneider, and H. Siegrist, to Sandoz Ltd. Water-soluble azeo dyestuffs containing reactive groups. 3,035,043, 5–15–62, Cl. 260—152.

Benz, Joseph T., to American Iron & Machine Works Co., Inc. Kelly bushing. 3,026,693, 3–27–62, Cl. 64—23.7.

Benz, Rudolf O., and E. Koch to Rohde & Hans G.m.b.H. Hydraulic fluids with polymeric viscosity index improvers. 3,057,803, 10–9–62, Cl. 252—78.

Benz, Walter, and H. Linnenkohl, to Motoren-Werke Mannheim AG, vorm. Benz Abt. stat. Motorenbau. Dual fuel engines. 3,016,886, 1–16–62, Cl. 123—27.

Benzel, Howard A., to Scott Aviation Corp. Underwater breathing apparatus provided with a snorkel. 3,051,170, 8–28–62, Cl. 128—142.

Benzing, Jacob M.: *See*—
Szuba, Walter D., and Benzing. 3,029,762.

Benzinger, Theodore H. Method for measuring body temperature. 3,054,397, 9–18–62, Cl. 128—2.

Berardi, Martin J. Lobster tank with artificial ocean water and a filter therefor. 3,025,831, 3–20–62, Cl. 119—2.

Berberich, Erich, to William Prym-Werke K.G. Separable interlocking fastener. 3,022,559, 2–27–62, Cl. 24—205.13.

Berberich, Erich, J. Gilliam, and G. Frowein, to William Prym-Werke K.G. Method of producing slide fasteners. 3,022,803, 2–27–62, Cl. 139—384.

Berberich, Otto W. Racing horse toy. 3,019,550, 2–6–62, Cl. 46—107.

Berch, William H., to General Dynamics Corp. Alarm signal means. 3,066,194, 11–27–62, Cl. 179—27.

Berch, William H., R. P. Boyer, Jr., and E. H. Gatzert, to General Dynamics Corp. Toll ticketing system. 3,041,399, 6–26–62, Cl. 179—7.1.

Berchtold, Max, to I-T-E Circuit Breaker Co. Two cycle engine charger arrangement and control. 3,036,561, 5–29–62, Cl. 123—65.

Berck, William F., to Ralph N. Brodie Co. Metering system for liquefied gases. 3,021,684, 2–20–62, Cl. 62—49.

Berck, William F., to Ralph N. Brodie Co. Air eliminator system for metering liquids. 3,040,573, 6–26–62, Cl. 73—200.

Berck, William F., to Ralph N. Brodie Co. Apparatus for metering liquids having entrained gases. 3,040,574, 6–26–62, Cl. 73—200.

Berczynski, Frank A. Distributor seal. 3,070,242, 12–25–62, Cl. 214—36.

Beregowitz, Louis. Photoelectrically controlled switching. 3,056,332, 10–2–62, Cl. 88—24.

Beremand, Donald G., to Thompson Ramo Wooldridge Inc. Regulator valve. 3,024,803, 3–13–62, Cl. 137—501.

Berenbaum, Arthur, to Philco Corp. Heater control in laundry apparatus. 3,044,181, 7–17–62, Cl. 34—45.

Berenbaum, Morris B., and E. R. Bertozzi, to Thiokol Chemical Corp. Dibutyltin dithioacylates. 3,029,267, 4–10–62, Cl. 260—429.7.

Berend, David, Jr.: *See*—
Zuckerman, Irving, and Berend. 3,037,556.

Berend, Francois. Adjustable eyeglass temple. 3,052,161, 9–4–62, Cl. 88—52.

Berends, Emerson R., and R. P. Deghuee, to Rockwell Mfg. Co. Adjustable indexing mechanism. 3,021,879, 2–20–62, Cl. 143—6.

Berends, Wouter: *See*—
Mager, Humphrey I. X., and Berends. 3,024,235.

Berenyi, Szilard. Method and potentiometer-titrimeter for measuring electroionic potentials. 3,017,569, 1–16–62, Cl. 324—29.

Beresford, Hobart, to Iowa State College Research Foundation. Feed bunk. 3,015,308, 1–2–62, Cl. 119—61.

Bereskin, Alexander B., to The Baldwin Piano Co. Audio transformer. 3,061,804, 10–30–62, Cl. 336—84.

Beretta, Pier C. Combination muzzle brake and grenade launcher for portable firearms. 3,021,633, 2–20–62, Cl. 42—1.

Beretta, Pier C. Mechanism for converting a rifle from semi-automatic to automatic firing. 3,021,763, 2–20–62, Cl. 89—140.

Berets, Donald J., R. A. Hermann, and H. A. Van Brocklin, to American Cyanamid Co. Fluidity control of fluidized vanadium oxide catalysts in the preparation of phthalic anhydride. 3,038,911, 6–12–62, Cl. 260—346.4.

Beretvas, Helen S., and R. S. Juriga, to Standard Oil Co. Sulfochlorination of hydrocarbons. 3,068,218, 12–11–62, Cl. 260—139.
Berezin, Evelyn : *See*—
Auerbach, Albert A., Berezin, Lubkin, and Shaw.
Berg Airlectro Products Co. : *See*—
Dobrikin, Harold L. 3,017,861.
Dobrikin, Harold L. 3,018,123.
Dobrikin, Harold L. 3,022,118.
Dobrikin, Harold L. 3,023,051.
Dobrikin, Harold L. 3,027,905.
Dobrikin, Harold L. 3,042,061.
Dorbrikin, Harold L., and Mastis. 3,028,842.
Mastis, Victor. 3,028,139.
Berg, Alex, to Dr. Karl Thomae, G.m.b.H. Substitution products of benzo-1,4-oxazine. 3,058,980, 10–16–62, Cl. 260—244.
Berg, Calvin A., and M. J. Johnson, to Fansteel Metallurgical Corp. Semiconductor diode assembly and housing therefor. 3,030,558, 4–17–62, Cl. 317—234.
Berg, Carl O., to Philco Corp. Blocking oscillator with output during non-conduction interval. 3,056,930, 10–2–62, Cl. 331—75.
Berg, Chester P., to Manor Hosiery Mills, Inc. Machine for making circular knit hosiery. 3,029,622, 4–17–62, Cl. 66—146.
Berg, Daniel, and J. A. Tanaka, to Westinghouse Electric Corp. Electroluminescent device. 3,069,579, 12–18–62, Cl. 313—108.
Berg, Daniel, to Westinghouse Electric Corp. Electrical apparatus. 3,023,263, 2–27–62, Cl. 174—14.
Berg, Edward J. M., H. C. Deubner, and L. B. Nelson. Process of treating organic sludges. 3,023,151, 3–13–62, Cl. 71—9.
Berg, Fritz, F. Arndt, and K. Wrabetz, to Zentrale Entwicklung und Konstruktion (Zek) Hydraulik, VEB. Variable displacement pump control. 3,046,895, 7–31–62, Cl. 103—37.
Berg, Joseph A. Pelvic inclinometer. 3,045,357, 7–24–62, Cl. 33—207.
Berg, Lader. Resilient support for furniture. 3,037,766, 6–5–62, Cl. 267—110.
Berg, Leo J., and F. Flournoy. Vacuum bottle. 3,067,896, 12–11–62, Cl. 215—13.
Berg, Manfred V., to Agenturfirma Emvebe M. Berg. Method for welding eutectic or super eutectic cast iron pieces especially cast iron tubes. 3,056,196, 10–2–62, Cl. 29—496.
Berg, Manfred V., to Agenturfirma Emvebé M. Berg. Method for welding work pieces of cast iron. 3,060,563, 10–30–62, Cl. 29—487.
Berg, Paul O. Feed mill. 3,035,739, 5–22–62, Cl. 222—135.
Berg, Quentin. Terminal for making electrical connections. 3,020,520, 2–6–62, Cl. 339—273.
Berg, Quentin. Method of solder coating strip stock. 3,068,-566, 12–18–62, Cl. 19—527.
Berg, Rudolph G., to Chas. Pfizer & Co., Inc. Process for converting 3β-hydroxy-Δ⁵ steroids to 3-keto-Δ⁴ steroids. 3,056,816, 10–2–62, Cl. 260—397.47.
Berg, Rudolph G., S. K. Figdor, and G. D. Laubach, to Chas. Pfizer & Co., Inc. 21-methylene steroid compounds. 3,018,-295, 1–23–62, Cl. 260—397.3.
Berg, Rudolph G., and G. D. Laubach, to Chas Pfizer & Co., Inc. 16β-difluorinated corticosteroids and intermediates. 3,022,-295, 2–20–62, Cl. 260—239.55.
Berg, Rudolph G., and G. D. Laubach, to Chas. Pfizer & Co., Inc. 16-difluorinated corticosteroids. 3,022,297, 2–20–62, Cl. 260—239.55.
Berg, Rudolph G., and G. D. Laubach, to Chas. Pfizer & Co., Inc. 16-fluorinated corticosteroids. 3,022,325, 2–20–62, Cl. 260—397.45.
Berg, Rudolph G., S. K. Figdor, and G. D. Laubach, to Chas. Pfizer & Co., Inc. 21-aminomethyl derivatives of progesterone. 3,033,855, 5–8–62, Cl. 260—239.5.
Berg, Winfred M., to Pic Design Corp. Belt transmission system. 3,026,737, 3–27–62, Cl. 74—229.
Bergan, Reuben A., to Well Surveys, Inc. Vacuum container and method of processing same. 3,055,101, 9–25–62, Cl. 29—527.
Bergan, Reuben A., and A. H. Youmans, to Well Surveys Inc. Belt charging means for borehole electrostatic generators. 3,024,407, 3–6–62, Cl. 322—2.
Bergbormaskiner, Aktiebolaget : *See*—
Dobbertin, Gunther H. W. 3,036,566.
Bergdorf, William H. : *See*—
Saltarelli, Eugene A., and Bergdorf. 3,029,598.
Berge, Godshalk, to Magneco Electronics, Inc. Permanent magnet ferrite. 3,036,008, 5–22–62, Cl. 252—62.5.
Berge, Jacques M. A. C. Rudder and drop-keel construction. 3,021,810, 2–20–62, Cl. 114—138.
Berge, Kirk R. : *See*—
Bohn, Alfred T., and Berge. 3,055,595.
Berge, Pierre, and M. Tournarie, to Commissariat a l'Energie Atomique. Electrically-operated repositioning servo-systems responsive to a variable magnitude. 3,061,027, 10–30–62, Cl. 177—210.
Bergehall, Stig Å. H. : *See*—
Tiefenthal, Rolf E., and Bergehall. 3,062,354.
Bergel, Franz, and J. A. Stock, to National Research Development Corp. P-bis-(2-chloroethyl) aminophenylalanine and the process for the production thereof. 3,032,584, 5–1–62, Cl. 260—518.
Bergel, Franz, and J. A. Stock, to National Research Development Corp. Process for the production of p-bis (2 chloroethyl)-aminophenylalanine. 3,032,585, 5–1–62, Cl. 260—518.
Bergen, William J. Sleep-preventing alarm for a motor vehicle driver. 3,049,090, 8–14–62, Cl. 116—67.
Bergendorf, Leonard W., to Bowling Aids, Inc. Bowling aid or mit. 3,038,723, 6–12–62, Cl. 273—54.
Berger, Bernard H., to Cities Service Research and Development Co. Antifreeze composition. 3,046,230, 7–24–62, Cl. 252—75.
Berger, Carl. Coating surfaces with aluminum. 3,041,197, 6–26–62, Cl. 117—47.
Berger, Carl J. : *See*—
Smith, James E., Berger, and Skinner. 3,036,664.
Berger, Christian D. Sound-controllable toy. 3,036,404, 5–29–62, Cl. 46—243.
Berger, David : *See*—
Berger, Irving, and Hall. 3,027,113.
Berger, Donald E., to Phillips Petroleum Co. Control of multi-unit fractionation systems. 3,034,307, 5–15–62, Cl. 62—37.
Berger, Donald E., and E. C. Miller, to Phillips Petroleum Co. Fractionation column control. 3,021,263, 2–13–62, Cl. 202—40.
Berger, Edith : *See*—
Krömer, Karl, and Berger. 3,059,555.
Berger, Edith, to Hahn, and K. Krömer, to Kamera-und Kinowerke Dresden, VEB. Photographic camera. 3,030,-871, 4–24–62, Cl. 95—10.
Berger, Edwin I. Pivoted type head for toy typewriter. 3,038,579, 6–12–62, Cl. 197—47.
Berger, Frank M., and K. H. Wielich, to Carter Products, Inc. Method of administering tablets having decongestant and anti-histaminic activity. 3,039,922, 6–19–62, Cl. 167—55.
Berger, Frank M., and B. J. Ludwig, to Carter Products, Inc. 2 lower alkyl-2-(1-ethylpropyl)-1,3-propanediol dicarbamate. 3,059,022, 10–16–62, Cl. 260—482.
Berger, Fritz : *See*—
Backstein, Günter, and Berger. 3,070,013.
Berger, Guido J., to C. Zeiss. Photographic objective. 3,051,053, 8–28–62, Cl. 88—57.
Berger, Harold, and F. E. Fairman, to General Electric Co. Radiant energy control. 3,035,402, 5–13–62, Cl. 250—106.
Berger, Harold S., to G. J. Hibbard. Device for assisting in swimming instruction. 3,044,186, 7–17–62, Cl. 35—29.
Berger, Heinz : *See*—
Gross, Otto, and Berger. 3,033,658.
Berger, Howard : *See*—
Arnell, Alvin, and Berger. 3,070,298.
Berger Industries Inc. : *See*—
Slagle, Robert L. 3,045,973.
Troyer, Marc D. 3,050,285.
Berger, Irving, and P. F. Hall, to D. Berger and S. Berger, doing business as Trimlin Mfg. Co. Spinning reel. 3,027,-113, 3–27–62, Cl. 242—84.21.
Berger, Jacob : *See*—
Gottfried, Louis, and Berger. 3,027,202.
Gottfried, Louis, and Berger. 3,069,202.
Berger, Johannes, to C. Zeiss. Photographic objective for picture taking or projection. 3,024,697, 3–13–62, Cl. 88—57.
Berger, Joseph. Orthodontia appliances. 3,028,671, 4–10–62, Cl. 32—14.
Berger, Leon, to Atlantic Surgical Co., Inc. Disc for surgical drainage device. 3,039,465, 6–19–62, Cl. 128—283.
Berger, Leonard G. Light fixture mounting. 3,018,082, 1–23–62, Cl. 248—343.
Berger, Leopold M., and A. Gistl. Linking machine. 3,038,-162, 6–12–62, Cl. 1—187.
Bergen, Lewis W., R. I. Jaffee, and D. N. Williams, to Kennecott Copper Corp. Titanium-niobium alloys. 3,038,798, 6–12–62, Cl. 75—174.
Berger, Paul J.-M., to Societe Victor Bouzard & Ses Fils. Automatic control system for offset and the like photomechanical copying machines. 3,052,174, 9–4–62, Cl. 95—73.
Berger, Ralph, and H. E. Harlow, to Anelex Corp. Data processing apparatus. 3,016,008, 1–9–62, Cl. 101—93.
Berger, Richard K., A. J. Nicholas, L. A. Pickle, H. Soumerai, and A. J. Van Newenhoven, to Worthington Corp. Multiple compressor system for refrigeration installation. 3,033,009, 5–8–62, Cl. 62—469.
Berger, Richard S., to Shell Oil Co. Polymerization process. 3,045,001, 7–17–62, Cl. 260—93.5.
Berger, Sidney : *See*—
Berger, Irving and Hall. 3,027,113.
Berger, Stanley, and L. Rosenblatt, to Auricord Corp. Tape recorder transport. 3,037,088, 5–29–62, Cl. 179—100.2.
Berger, William E., Sr., and E. C. Levit, to Whirlpool Corp. Drying system for dishwashers. 3,026,628, 3–27–62, Cl. 34—231.
Bergeron, Walter H., to United Shoe Machinery Corp. Fittings for sewing moccasin type seams. 3,056,363, 10–2–62, Cl. 112—62.
Bergesen, Howard, and I. O'Rourke, Jr., to Concrete Conduit Corp. Concrete-molding plant. 3,038,231, 6–12–62, Cl. 25—36.
Bergeson, Raymond L., to Minneapolis-Honeywell Regulator Co. Condition sensing apparatus. 3,060,742, 10–30–62, Cl. 73—304.

Bergeson, Richard P., and C. T. Bergman, to The Maytag Co. Dispenser for laundry machines. 3,022,656, 2–27–62, Cl. 68—207.

Bergevin, Charles R., to The Torrington Mfg. Co. Spring coiling machine. 3,068,927, 12–18–62, Cl. 153—2.

Bergey, Taylor G., to Houston Oil Field Material Co. Centrifuge system. 3,070,291, 12–25–62, Cl. 233—19.

Berggren, Bjorn T.: *See*—
Winnlert, Erik G., De Geer, and Berggren. 3,066,711.

Berggren, Lloyd E., to Minneapolis-Honeywell Regulator Co. Condition responsive devices. 3,037,388, 6–5–62, Cl. 73—398.

Berggren, Lloyd E., to Minneapolis-Honeywell Regulator Co. Aircraft instruments. 3,048,329, 8–7–62, Cl. 235—151.

Bergh, Thomas R., D. E. King, R. C. Nierzwicki, and P. Thorne, to Airtex Corp. Radiant acoustical system. 3,043,567, 7–10–62, Cl. 257—124.

Berghaus, Bernhard, and H. Bucek, to Elektrophysikalische Anstalt Bernhard Berghaus. Control of glow discharge processes. 3,018,409, 1–23–62, Cl. 315—111.

Berghaus, Bernhard, and H. Bucek, to Elektrophysikalische Anstalt Bernhard Berghaus. Method and apparatus for controlling gas discharges. 3,035,205, 5–15–62, Cl. 315—111.

Berghgracht, Marius. Fluid tight container. 3,034,695, 5–15–62, Cl. 229—22.

Bergin, John A., and T. F. Robertson, to United States of America, Army. Demountable shower stand. 3,066,958, 12–4–62, Cl. 285—61.

Bergische Eisen-und Tempergiesserei Karl Bremshey Firma: *See*—
Bremshey, Karl. 3,040,637.

Bergien, Adolf: *See*—
Fejes, Anton. 3,065,732.

Berglund, Lawrence W., E. L. Capener, and S. A. Harrison, to General Mills, Inc. Azeotropic esterification of phenolic resins. 3,041,298, 6–26–62, Cl. 260—19.

Bergman, Burton, R. D. Eisenhart, A. W. Opsahl, and S. K. Wood, to Boeing Airplane Co. Outward-opening plug type door for aircraft. 3,051,280, 8–28–62, Cl. 189—46.

Bergman, Charles T.: *See*—
Bergeson, Richard P., and Bergman. 3,022,656.

Bergman, Clarence E., to United States of America, Air Force. Pulse phase comparison system. 3,042,871, 7–3–62, Cl. 328—133.

Bergman, Clarence E., to United States of America, Air Force. Pulse phase comparison system. 3,047,809, 7–31–62, Cl. 328—133.

Bergman, Donald E., F. W. Denison, Jr., and W. C. Friedland, to Abbott Laboratories. Culture process for gibberellic acid. 3,021,261, 2–13–62, Cl. 195—36.

Bergman, Ed, to Art Steel Co., Inc. File card drawers with means to compact the file cards. 3,057,358, 10–9–62, Cl. 129—28.

Bergman, Edward, to Art Steel Co., Inc. Stackable desk trays. 3,047,157, 7–31–62, Cl. 211—126.

Bergman, Gustav A. Cleaning device for gas passages in percussion machines. 3,049,108, 8–14–62, Cl. 123—7.

Bergman, Hugo T. H. A., to Jonkopings och Vulcans Tandsticksfabriksaktiebolag. Method of and a device for punching statistical cards. 3,051,375, 8–28–62, Cl. 234—91.

Bergman, Joseph S. Packaging tacky latex emulsion paints in containers manufactured from polyolefinic materials. 3,063,559, 11–13–62, Cl. 206—84.

Bergman, Per G. Drawing-tables with vertically adjustable drawing-board. 3,043,048, 7–10–62, Cl. 45—131.

Bergman, Per G. Balancing mechanisms for drawing-tables. 3,057,112, 10–9–62, Cl. 45—131.

Bergman, Richard. Device for facilitating removal of quarters of beef and the like from an overhead support. 3,033,752, 6–12–62, Cl. 294—19.

Bergman, Stephen A., and D. F. Cockrell, to Panhandle Eastern Pipe Line Co. Combination valve and cleaning ball launcher for use in pressure flow lines. 3,063,079, 11–13–62, Cl. 15—104.06.

Bergman, Stephen A., and D. F. Cockrell, to Panhandle Eastern Pipe Line Co. Combination gate valve and ball launcher and catcher for use in pressure flow lines. 3,063,080, 11–13–62, Cl. 15—104.06.

Bergman, Sune H., to Frili, AB. Electrical musical instruments. 3,038,364, 6–12–62, Cl. 84—1.24.

Bergman, W. Dan, Aktiebolaget: *See*—
Hallerback, Stig L. 3,025,799.

Bergman, Wayne K. Lever-cam operated, slidable jaw wrench. 3,026,751, 3–27–62, Cl. 81—129.

Bergman, William E., to Phillips Petroleum Co. Treatment of oil bearing formations. 3,025,911, 3–20–62, Cl. 166—42.

Bergman, William E., S. J. Marwil, and C. J. Engle, to Phillips Petroleum Co. Hydraulic cyclone unit. 3,025,965, 3–20–62, Cl. 210—512.

Bergmann, Anders K.: *See*—
Svala, Carl G., and Bergmann. 3,052,760.

Bergmann, Erich, to Siemens Schuckertwerke Aktiengesellschaft. Welding apparatus. 3,026,407, 3–20–62, Cl. 219—131.

Bergmann, Ernst R., to Goodman Mfg. Co. Scissors type continuous mining and loading machine. 3,047,279, 7–31–62, Cl. 262—19.

Bergmann, Heinrich W., to Conch International Methane Ltd. Stabilization means for tank mounting. 3,062,397, 11–6–62, Cl. 220—15.

Bergmann, Oswald: *See*—
Torkar, Karl, and Bergmann. 3,038,784.

Bergmann, Paul F., to Johnson Products, Inc. Means for metering lubricating oil from an hydraulic tappet to a hollow push rod. Re. 25,154, 4–10–62, Cl. 123—90.

Bergmeister, Eduard, J. Heckmaier, and M. Doriat, to Wackie-Chemie G.m.b.H. Process for drying thermoplastic materials. 3,046,609, 7–31–62, Cl. 18—48.

Bergne, Arne, to Svenska Aktiebolaget Gasaccumulator. Method of producing disc-shaped magnetogram carriers with guiding groove. 3,038,244, 6–12–62, Cl. 29—155.5.

Bergner, Nore E., to Aktiebolaget Separator. Centrifugal bowl for separating sludge-containing liquids. 3,036,759, 5–29–62, Cl. 233—29.

Bergougnou, Maurice A., to Esso Research and Engineering Co. Alkylating isoparaffins with atomized olefins. 3,053,917, 9–11–62, Cl. 260—683.59.

Bergsma, Rudolph, to King-Seeley Thermos Co. Temperature responsive system. 3,051,814, 8–28–62, Cl 219—20.

Bergsma, Rudolph, to King-Seeley Thermos Co. Temperature controller. 3,070,685, 12–25–62, Cl. 219—20.

Bergson, Gustav. Measuring apparatus. 3,051,643, 8–28–62, Cl. 209—135.

Bergstedt, Alf J. A. Pressure fluid machine. 3,030,933, 4–24–62, Cl. 121—62.

Bergstedt, Milton A., to Johnson & Johnson. Laminated adhesive sheeting for aircraft. 3,058,704, 10–16–62, Cl. 244—1.

Bergstein, Frank D., to The Bergstein Packaging Trust. Self-cleaning adhesive doctoring device. 3,063,407, 11–13–62. Cl. 118—104.

Bergstein, Frank D., and R. W. Nerenberg, to Bergstein Packaging Trust. Method for casting clay coating. 3,054,716, 9–18–62, Cl. 156—246.

Bergstein, Leonard. Varifocal lens system with four points of exact image shift compensation. 3,051,052, 8–28–62, Cl. 88—57.

Bergstein Packaging Trust: *See*—
Bergstein, Frank D. 3,063,407.
Bergstein, Frank D., and Nerenberg. 3,054,716.

Bergstrasser, Georg, and H. Hatzinger, to Telefonbau und Normalzeit G.m.b.H. Switching contacts controlled by magnetic fields. 3,067,304, 12–4–62, Cl. 200—87.

Bergstrom, Carl V. Materials handling apparatus. 3,015,401, 1–2–62, Cl. 214—317.

Bergstrom, Clarence G., and R. M. Dodson, to G. D. Searle & Co. 17-acyloxy-21-fluoroprogesterones and 6-methyl derivatives. 3,027,386, 3–27–62, Cl. 260—397.47.

Bergstrom, Clarence G., and R. M. Dodson, to G. D. Searle & Co. 17-acyl-6-methylated 9α-fluoroandrost-4-en-3-ones. 3,029,258, 4–10–62, Cl. 260—397.3.

Bergstrom, Clarence G., and R. M. Dodson, to G. D. Searle & Co. 9α-halo-4-pregnene-3,20-diones and derivatives thereof. 3,029,259, 4–10–62, Cl. 260—397.3.

Bergstrom, Eric V., to Socony Mobil Oil Co., Inc. Method and system for producing oil tenaciously held in porous formations. 3,057,404, 10–9–62, Cl. 166—8.

Bergstrom, Eric V., to Socony Mobil Oil Co., Inc. Periodic introduction of granular contact material into high pressure vessel. 3,067,131, 12–4–62, Cl. 208—173.

Bergstrom, Eric V., to Socony Mobil Oil Co., Inc. Multi-stage, multi-zone static bed reforming process and apparatus therefor. 3,069,348, 12–18–62, Cl. 208—64.

Bergstrom, Frank S., to Drill Development Co. Punch plate screens. 3,018,891, 1–30–62, Cl. 209—397.

Bergstrom, Lars R., to Allmanna Svenska Elektriska Aktiebolaget. Device for protecting an electric plant against over-voltages. 3,037,152, 5–29–62, Cl. 317—59.

Bergstrom, Sune, and J. Sjovall. PGF and PGF. 3,069,322, 12–18–62, Cl. 167—74.

Berguerand, Claude, to Mecanno Ltd. Miniature toy motor vehicles axle arrangement. 3,063,194, 11–13–62, Cl. 46—201.

Bergwerksgesellschaft Hibernia Aktiengesellschaft: *See*—
Gross, Otto, and Berger. 3,033,658.
Rindtorff, Embrecht, Schmitt, Keller, and Ambros. 3,035,077.

Bergy, Malcolm E., C. De Boer, A. Dietz, T. E. Eble, R. R. Herr, and L. E. Johnson, to The Upjohn Co. Streptozotocin and its production. 3,027,300, 3–27–62, Cl. 167—65.

Berhman, John W., to Amalgamated Growth Industries, Inc. Propulsion system. 3,041,824, 7–3–62, Cl. 60—35.6.

Beriger, Ernst, to Ciba Ltd. New organic phosphorus compounds. 3,016,326, 1–9–62, Cl. 167—22.

Beriger, Ernst, to Ciba Ltd. New organic phosphorus compounds and their manufacture and use. 3,035,079, 5–15–62, Cl. 260—461.

Beriger, Ernst, to Ciba Ltd. New organic phosphorus compounds and their manufacture and use. 3,055,798, 9–25–62, Cl. 167—22.

Beringer, Charles W.: *See*—
Bingham, Robert E., and Beringer. 3,053,801.

Berinson, Neil, and L. Finkel, to American Bosch Arma Corp. Synchronizing signal generator for demultiplexing system. 3,048,786, 8–7–62, Cl. 328—110.

Berke, Hans J. O., and M. L. M. Kozelj, to Beteiligungs- und Patentverwaltungsgesellschaft mit beschrankter Haftung. Sluice dam sealing means. 3,069,861, 12–25–62, Cl. 61—22.

Berkeley, Bernard, and D. Schoenholz, to Foster D. Snell Inc. All-weather surface cleaner. 3,057,804, 10–9–62, Cl. 252—118.

Berkeley Chemical Corp. : *See*—
Adams, Phillip, and Beinfest. 3,070,598.
Berkeley Co., The : *See*—
Berkeley, Laurence J. 3,064,921.
Berkeley, Laurence J., to The Berkeley Co. Internal expanding reel. 3,064,921, 11–20–62, Cl. 242—110.1.
Berkeley, Peter J., Jr. : *See*—
Cull, Neville L., Lambert, Carr, and Berkeley. 3,050,569.
Berkeley Pump Co. : *See*—
Barnes, Robert H., and Rhoda. 3,030,909.
Berkery, Eugene A., to Bell Telephone Laboratories, Inc. Surge suppression for power supplies. 3,047,746, 7–31–62, Cl. 307—93.
Berkey, Harry L., A. H. Billow, and W. R. Beckner, Jr., to Landis Machine Co. Pipe coupling tapping machine with indexible work chuck. 3,060,467, 10–30–62, Cl. 10—139.
Berkley, Earl E. : *See*—
Reddick, John A., Berkley, and Jennings. 3,039,293.
Berkley Machine Co. : *See*—
Winkler, Richard, and Dünnebier. 3,019,886.
Winkler, Richard and Dünnebier. 3,020,043.
Winkler, Richard, and Dunnebier. 3,021,610.
Winkler, Richard, and Dunnebier. 3,040,488.
Winkler, Richard, and Dunnebier. 3,044,767.
Winkler, Richard, and Dunnebier. 3,069,025.
Berkman, Lou L. Pipe pulling machine. 3,042,273, 7–3–62, Cl. 254—29.
Berko Electric Mfg. Corp. : *See*—
Knoll, David, and Greenhaus. 3,037,730.
Knoll, David, and Greenhaus. 3,051,816.
Berkow, Melvin, to Lee Fashions, Inc. Scarf support. 3,065,946, 11–27–62, Cl. 248—317.
Berkowitz, Bernard, to Sperry Rand Corp. Polarization sensitive antenna system. 3,049,708, 8–14–62, Cl. 343—100.
Berkowitz, Eugene R., to Tension Envelope Corp. Expanding envelope. 3,063,618, 11–13–62, Cl. 229—68.
Berkowitz, Murry W. : *See*—
Koletsky, Harold S., and Berkowitz. 3,017,524.
Berkowitz, Nathan L. : *See*—
Foote, Daniel J., and Berkowitz. 3,023,602.
Foote, Daniel J., and Berkowitz. 3,052,114.
Berkshire, Robert H., to Texas Instruments Inc. System for magnetic recording. 3,042,755, 7–3–62, Cl. 179—100.2.
Berkshire, Robert H., to Texas Instruments Inc. Device for the precision mounting of a gear on a shaft. 3,047,318, 7–31–62, Cl. 287—52.08.
Berkshire, Robert H., and L. E. Jones, to Texas Instruments Inc. Method for making multi-unit electromagnetic head. 3,069,755, 12–25–62, Cl. 29—155.58.
Berkson, Herbert D., 45% to R. F. Muse, and 10% to R. W. Johnson, Jr. Lawn clipping device. 3,057,142, 10–9–62, Cl. 56—242.
Berland, Joseph. Gun adaptor for viscous material. 3,067,783, 12–11–62, Cl. 141—27.
Berlant, Emmanuel, to Stephens Trusonic, Inc. Controllable stereophonic electroacoustic network. 3,050,583, 8–21–62, Cl. 179—1.
Berlenbach, Bernard E. Toe hold for skis. 3,029,085, 4–10–62, Cl. 280—11.35.
Berlenbach, Wilhelm : *See*—
Graulich, Wilhelm, Lehmann, Bayer, Kass, and Berlenbach. 3,066,686.
Berlin, Daniel. Folding rack. 3,043,440, 7–10–62, Cl. 211—178.
Berlin, Daniel. Child's jumper seat. 3,061,261, 10–30–62, Cl. 248—399.
Berlin, Daniel. Novel baby jumper. 3,066,906, 12–4–62, Cl. 248—399.
Berlin, Daniel. Crib guard. 3,069,700, 12–25–62, Cl. 5—100.
Berlin, Flint : *See*—
Reynolds, Horace H. 3,034,581.
Berlin, Ludwig W., and H. Hamal, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. New photosensitizing dyestuffs. 3,058,978, 10–16–62, Cl. 260—240.6.
Berlin, Milton : *See*—
Rheingold, Lawrence M., and Berlin. 3,022,758.
Berlin, Milton, and L. M. Rheingold, to Templet Industries, Inc. Stripper for rule die sets. 3,048,069, 8–7–62, Cl. 83—123.
Berliner, Henry A. Propelled surfboard. 3,019,760, 2–6–62, Cl. 115—70.
Berliner, Henry A. Convertible coffee-dining table. 3,020,111, 2–6–62, Cl. 311—3.
Berliner, Henry A. Cuff link. 3,034,188, 5–15–62, Cl. 24—97.
Berliner, Henry A. Boat trailer. 3,068,024, 12–11–62, Cl. 280—414.
Berliner Maschinenbau A.G. vormals L. Schwartzkopff : *See*—
Diener, Richard. 3,043,576.
Saurer, Hermann, and Victora. 3,024,598.
Berly, Edward M. Electrostatic precipitator. 3,040,498, 6–26–62, Cl. 183—7.
Berlyn, Martin J., to Dominion Engineering Works Ltd. Drag reducing method and arrangement for hydraulic turbine runners. 3,044,744, 7–17–62, Cl. 253—26.
Berlyn, Martin J., to Dominion Engineering Works Ltd. Method and apparatus for the manufacture of paper. 3,044,925, 7–17–62, Cl. 162—202.
Berlyn, Martin J. Exhaust ejector. 3,059,423, 10–23–62, Cl. 60—32.
Berman, Elliot, and D. B. McQuain, to The National Cash Register Co. Derivatives of 3-phenyl-spiro(2H,1-benzopyran-2,2'[2'H,1'-benzopyran]). 3,022,318, 2–20–62, Cl. 260—345.2.
Berman, Elliot, and B. Katchen, to The National Cash Register Co. Process for detecting interim thawing of edibles. 3,038,812, 6–12–62, Cl. 99—192.
Berman, Kurt : *See*—
Adamson, Arthur P., and Berman. 3,065,597.
Berman, Max G. : *See*—
Sutton, Ernest S., Jr., Reilly, Berman, and Irwin. 3,025,795.
Berman, Simon A. Swimming pool protective means. 3,046,566, 7–31–62, Cl. 4—172.
Bermingham, Raymond J. Electrical charge generating and retaining electric shaver head. 3,045,345, 7–24–62, Cl. 30—43.
Bernard, Arthur A. and R. A., to Bernard Welding Equipment Co. Cable connector. 3,040,292, 6–19–62, Cl. 339—276.
Bernard, Arthur A. and R. A., to Chemetron Corp. Welding with blanket and gas arc-shield. 3,051,822, 8–28–62, Cl. 219—74.
Bernard, George G. : *See*—
Holbrook, Orrin C., and Bernard. 3,044,544.
Bernard, George G., to The Pure Oil Co. Method of locating leaks in buried pipelines. 3,060,725, 10–30–62, Cl. 73—40.5.
Bernard, George G., and O. C. Holbrook, to The Pure Oil Co. Water flood process for clay-containing formation. 3,036,630, 5–29–62, Cl. 166—9.
Bernard, George G., and O. C. Holbrook, to The Pure Oil Co. Surfactant-water flooding process. 3,056,452, 10–2–62, Cl. 166—4.
Bernard, George G., and O. C. Holbrook, to The Pure Oil Co. Method for increasing formation permeability. 3,064,732, 11–20–62, Cl. 166—44.
Bernard, Gustave J. H. J. Aerials for receiving television and modulated frequency broadcast signals. 3,017,632, 1–16–62, Cl. 343—819.
Bernard, James A., to General Motors Corp. Speed responsive transmission and clutch. 3,038,354, 6–12–62, Cl. 74—752.
Bernard, James A., to General Motors Corp. Refrigerating apparatus. 3,044,594, 7–17–62, Cl. 192—84.
Bernard, Jean-Paul, to Aerazur Constructions Aeronautiques S.A. Means for arresting or stopping a landing aircraft such as compound net barriers. 3,069,118, 12–18–62, Cl. 244—110.
Bernard, Joseph. Thermally actuated liquid pulse pump. 3,034,495, 5–15–62, Cl. 126—210.
Bernard, Lucien A., ½ to J. E. Briche. Flexible non-pneumatic tire. 3,018,809, 1–30–62, Cl. 152—41.
Bernard, Maurice : *See*—
Simonin, Raymond F., and Bernard. 3,041,181.
Bernard, Nicolle : *See*—
Pierrot, Andre, Lescroel, and Bernard. 3,062,667.
Pierrot, Andre, Lescroel, and Bernard. 3,062,668.
Bernard Plastics Molding Corp. : *See*—
Levine, Bernard B., and Phillips. 3,047,196.
Bernard, Richard A. : *See*—
Bernard, Arthur A. and R. A. 3,040,292.
Bernard, Arthur A. and R. A. 3,051,822.
Bernard Welding Equipment Co. : *See*—
Bernard, Arthur A. and R. A. 3,040,292.
Bernardi, Dominic J., A. M. Tringal, H. T. Roth, and L. S. Engle, to Interchemical Corp. Printing inks. 3,017,374, 1–16–62, Cl. 260—18.
Bernard, Edward P., Sr., to W. M. Hales Co., Inc. Mechanism for rebuilding rollers. 3,031,741, 5–1–62, Cl. 29—200.
Bernardin Bottle Cap Co., Inc. : *See*—
Montgomery, Van H. 3,022,917.
Bernardin, Leo J. : *See*—
Adams, James W., and Bernardin. 3,028,296.
Bernart, William F., W. J. Hanson, and R. E. Schmeck, to Pitney-Bowes, Inc. Printing values and identifying marks on drafts. 3,016,820, 1–16–62, Cl. 101—94.
Bernasek, Edward : *See*—
Schumacher, Joseph N., Henley, Bernasek, and Teague. 3,050,532.
Bernath, John : *See*—
Nelson, Herbert, and Bernath. 3,022,568.
Bernay, Josef J. Molded plastic soap basket. 3,059,374, 10–23–62, Cl. 45—28.
Bernd, Jules P., to Brunswick Corp. Pressure vessel bladder. 3,057,509, 10–9–62, Cl. 220—63.
Bernd, Louis E. Automatic line release means. 3,050,898, 8–28–62, Cl. 43—25.
Berndt, Eric M., and W. H. Bach, to Bach Auricon, Inc. Magnetic-sound-track motion picture apparatus. 3,040,134, 6–9–62, Cl. 179—100.2.
Berndt, Lyle H., and O. J. Krett, to National Dairy Products Corp. Fatty food composition. Re. 25,264, 10–16–62, Cl. 99—123.
Berndt, Richard F., to Virkotype Corp. Process and apparatus for producing raised impressions on matrices. 3,069,284, 12–18–62, Cl. 117—13.
Berner, Erling, to WMB International A.B. Method and apparatus for making coherent bodies from expandable granules of thermoplastic. 3,065,500, 11–27–62, Cl. 18—4.
Bernhard, Edgar. Cigarette structure. 3,059,649, 10–23–62, Cl. 131—10.

Bernhard, Johann, to Svenska Precisionsverktyg, Aktiebolaget. Screw thread cutting device. 3,037,393, 6–5–62, Cl. 74—205.
Bernhard, Thomas J. Rat guard. 3,056,375, 10–2–62, Cl. 114—221.
Bernhardt, Ernest C., O. M. Hahn, and J. E. Hansen, to E. I. du Pont de Nemours and Co. Process for increasing the molecular weight of polyamides. 3,040,005, 6–19–62, Cl. 260—78.
Bernhardt, Ernest C., and F. H. Skewis, to E. I. du Pont de Nemours and Co. Molding method and apparatus. 3,044,-118, 7–17–62, Cl. 18—26.
Bernhardt, Eugen, and E. Habermann. Interferometer for measuring spherical surfaces. 3,028,782, 4–10–62, Cl. 88—14.
Bernhardt, Jost. Life jacket. 3,046,576, 7–31–62, Cl. 9—338.
Bernhardt, Otto, to Rome Cable Corp. Pipe thread wiping method and apparatus. 3,044,907, 7–17–62, Cl. 134—5.
Bernhauer, Konrad: *See*—
Becher, Elisabeth, Bernhauer, and Wilharm. 3,043,750.
Bernheim, George W. Photoelectric control device for street lights. 3,041,833, 8–7–62, Cl. 340—228.
Bernheim, George W. Thermal relay switching circuit. 3,052,816, 9–4–62, Cl. 315—159.
Bernheim, George W. Photoelectric switch adapter. 3,056,-035, 9–25–62, Cl. 250—239.
Berni, Louis W., to Ace Electronics Associates, Inc. Plug-in variable resistor. 3,049,687, 8–14–62, Cl. 338—183.
Bernick, Leslie M., and H. M. Roelofs, to Inland Steel Co. Aluminizing of ferrous metal base. 3,047,420, 7–31–62, Cl. 117—51.
Berning, Hans-Heinrich, and K. Tredopp, to R. Berning und Co. Speed detecting methods and arrangements. 3,058,-109, 10–9–62, Cl. 346—1.
Berning, Robot, und Co.: *See*—
Berning, Hans-Heinrich, and Tredopp. 3,058,109.
Berninger, Kenneth L., to General Motors Corp. Self-cleaning filter. 3,017,029, 1–16–62, Cl. 210—108.
Bernklau, Kurt: *See*—
Maier, Walter, and Bernklau. 3,018,609.
Berno, Harmond E., to Ford Motor Co. External band brake. 3,034,600, 5–15–62, Cl. 188—77.
Bernoff, Robert A.: *See*—
Rosi, Fred D., and Bernoff. 3,037,064.
Bernor, Nelson W., and R. E. Knight. Spanner wrench. 3,063,315, 11–13–62, Cl. 81—90.
Bernotas, Ralph J.: *See*—
Runci, Joseph O., and Bernotas. 3,017,046.
Bernotas, Ralph J., to General Motors Corp. Bucket loader stops. 3,045,843, 7–24–62, Cl. 214—140.
Bernotas, Ralph J., to General Motors Corp. Cradle loader. 3,059,792, 10–23–62, Cl. 214—140.
Berns Air King Corp.: *See*—
Bernstein, Samuel M. 3,045,581.
Bernson, Elmer R., to Caterpillar Tractor Co. High speed shaft bearing lubrication. 3,058,787, 10–16–62, Cl. 308—121.
Bernstein, Axel V., and I. E. S. Hedlund, to Sandvikens Jernverks Aktiebolag. Composite steel saw blades and method of making the same. 3,034,379, 5–15–62, Cl. 76—112.
Bernstein, Bernard, and J. Chevenak. Split ring electroacoustic transducer. 3,070,774, 12–25–62, Cl. 340—8.
Bernstein, Dagönn, to General Electric Co. Magnetic deflection yoke. 3,050,664, 8–21–62, Cl. 317—200.
Bernstein, Harris B.: *See*—
Cyr, Gilman N., and Bernstein. 3,029,188.
Bernstein, Harris B., and G. N. Cyr, to Olin Mathieson Chemical Corp. Dry amylopectin therapeutic dusting powders. 3,025,217, 3–13–62, Cl. 167—82.
Bernstein, Isidor M. Preparation of metal coordination complex coating. 3,025,172, 3–13–62, Cl. 106—30.
Bernstein, Isidor M. Process for coating pigments with titanium hydrate. 3,025,173, 3–13–62, Cl. 106—32.
Bernstein, Isidor M., E. N. Grisewood, J. D. Van Valkenburgh, and R. S. Neville, to Van Valkenburgh, Nooger and Neville, Inc. Article and method for concealing a response or item of information. 3,055,117, 9–25–62, Cl. 35—9.
Bernstein, Jack: *See*—
Florey, Klaus G., Bernstein, Restivo, and Yale. 3,057,-861.
Yale, Harry L., and Bernstein. 3,035,044.
Yale, Harry L., and Bernstein. 3,040,042.
Yale, Harry L., Sowinski, and Bernstein. 3,054,791.
Yale, Harry L., Sowinski, and Bernstein. 3,069,432.
Bernstein, Jack, and W. A. Lott, to Olin Mathieson Chemical Corp. Piperazine salt of phytic acid. 3,019,226, 1–30–62, Cl. 260—268.
Bernstein, Jack, and K. A. Losee, to Olin Mathieson Chemical Corp. Dihydrodibenzocycloheptene derivatives. 3,052,721, 9–4–62, Cl. 260—562.
Bernstein, Jack, and K. A. Losee, to Olin Mathieson Chemical Corp. Production of enantiomers of alpha-methyl-phenethyl hydrazine and intermediate. 3,060,192, 10–23–62, Cl. 260—326.3.
Bernstein, Jack, and W. A. Lott, to Olin Mathieson Chemical Corp. Derivatives of pyridothiadiazine-1,1-dioxides. 3,063,-995, 11–13–62, Cl. 260—243.
Bernstein, Jack, and E. R. Spitzmiller, to Mathieson Chemical Corp. Carbamates of 2 phenylsulfonyl ethanols. 3,068,-278, 12–11–62, Cl. 260—482.
Bernstein, Jerome: *See*—
King, Lewis G., Bernstein, and Dengler. 3,046,235.
Bernstein, Joseph M., to Automatic Electric Laboratories, Inc. Diode gate utilizing charged capacitor to forward bias diode. 3,028,510, 4–3–62, Cl. 307—88.5.
Bernstein, Malcolm E., and H. L. Rodman. Electronic transistorized metronome. 3,038,120, 6–5–62, Cl. 324—68.
Bernstein, Richard K., and G. Goda, to Clay-Adams, Inc. Surgical tubing. 3,034,509, 5–15–62, Cl. 128—348.
Bernstein, Samuel M., to Berns Air King Corp. Broiler charcoal holder and food rack. 3,045,581, 7–24–62, Cl. 99—340.
Bernstein, Seymour: *See*—
Cantrall, Edward W., and Bernstein. 3,019,219.
Cantrall, Edward W., Gordon, and Bernstein. 3,060,204.
Dusza, John P., and Bernstein. 3,060,208.
Dusza, John P., and Bernstein. 3,069,419.
Joseph, Joseph P., Dusza, and Bernstein. 3,069,440.
Littell, Ruddy, and Bernstein. 3,032,566.
Bernstein, Seymour, E. W. Cantrall, and R. Littell, to American Cyanamid Co. New 15,17-disubstituted-1,3,5(10)-estratriens and methods of preparing the same. 3,031,469, 4–24–62, Cl. 260—397.4.
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Bernutz, Johannes, and A. Gunst, to International Standard Electric Corp. Marking spring arrangement for crossbar switches. 3,059,059, 10–16–62, Cl. 139—27.54.
Bernz, Otto, Co., Inc.: *See*—
Webster, Milo E. 3,018,914.
Webster, Milo E. 3,029,802.
Webster, Milo E. 3,029,807.
Webster, Milo E. 3,067,811.
Webster, Milo E., and Casella. 3,029,981.
Bernzott, Hugo, to Bell & Howell Co. Self threading motion picture projector. 3,029,686, 4–17–62, Cl. 88—17.
Bero, James D. Variable road widener. 3,031,938, 5–1–62, Cl. 94—46.
Beroza, Morton: *See*—
Barthel, William F., Alexander, and Beroza. 3,070,607.
Beroza, Morton, to United States of America, Agriculture. 3,4-methylenedioxyphenyl acetals as synergists for pyrethrins. 3,046,191, 7–24–62, Cl. 167—32.
Beroza, Morton, N. Green, and S. I. Gertler. Attractants for the male mediterranean fruit fly. 3,016,329, 1–9–62, Cl. 167—48.
Berquist, Bruce S. Varying speed ratio gearing. 3,018,668, 1–30–62, Cl. 74—393.
Berquist, Charles B.: *See*—
Cathcart, William H., Beattie, and Berquist. 3,038,807.
Berrenberg, Franz, Maschinenfabrik-Eisengiesserei, Fa.: *See*—
Berrenberg, Peter. 3,054,487.
Berrenberg, Peter, to Franz Berrenberg Maschinenfabrik-Eisengiesserei, Fa. One-revolution clutch brake. 3,054,-487, 9–18–62, Cl. 192—17.
Berret, Rene: *See*—
Velluz, Leon, Bertin, Pesez, and Berret. 3,068,071.
Berridge, Frederick L.: *See*—
Brooks, Robert S., and Berridge. 3,037,829.
Berridge, Leslie J., and H. Fischer, to Woodall Industries, Inc. Visor assembly. 3,032,371, 5–1–62, Cl. 296—97.
Berrie, Alistair H., and C. E. Vellins, to Imperial Chemical Industries Ltd. Copper complex of a monoazo dye containing a dichloro-triazine substituent. 3,053,826, 9–11–62, Cl. 260—146.
Berrill, William H., J. Szerszynski, and J. Waite, to United Shoe Machinery Corp. Machines for vulcanizing soles of microcellular rubber onto shoe bottoms. 3,056,165, 10–2–62, Cl. 18—17.
Berry, Bernie B., Jr., J. C. Davis, O. E. May, and W. H. Young, to General Devices Co., Inc. Cable retractor. 3,061,252. 10–30–62, Cl. 248—54.
Berry, Claude G., to Owatonna Tool Co. Portable hydraulic press. 3,066,726, 12–4–62, Cl. 157—1.1.
Berry, Clifford E.: *See*—
Lancor, Joseph H., and Berry. 3,061,684.
Berry, David G.: *See*—
Du Hamel, Raymond H., and Berry. 3,059,234.
Berry, David G., and R. H. Du Hamel, to Collins Radio Co. Decoupled horizontally and vertically polarized antenna. 3,041,606, 6–26–62, Cl. 343—100.
Berry, Ferdinand W. Spacer members for the reinforcement of reinforced concrete structures. 3,044,217, 7–17–62, Cl. 50—512.
Berry, Henry W.: *See*—
Baldwin, John H., and Berry. 3,053,487.
Berry, James E., to Socony Mobil Oil Co., Inc. Alarm for logging systems. 3,052,878, 9–4–62, Cl. 340—282.
Berry, James W.: *See*—
Mitchell, Reid L., Berry, and Wadman. 3,018,158.

Berry, John C. and W. J. Hosiery package. 3,019,572, 2–6–62, Cl. 53—21.
Berry, John E., to Hughes Aircraft Co. Circuit module reworking fixture. 3,058,440, 10–16–62, Cl. 113—99.
Berry, John L. Apparatus for control of urinary incontinence. 3,066,667, 12–4–62, Cl. 128—1.
Berry, John M., to Midland Chemical Corp. Aqueous wood finishing composition of urea-formaldehyde condensate, sugar and solvent. 3,022,258, 2–20–62, Cl. 260—17.3.
Berry, John M., to Midland Chemical Corp. Wood finishing methods. 3,069,290, 12–18–62, Cl. 117—72.
Berry, John M., to Midland Chemical Corp. Wood finishing method. 3,070,458, 12–25–62, Cl. 117—72.
Berry, John M., and E. E. Witt, to Midland Chemical Corp. Wood finishing method and product. 3,017,287, 1–16–62, Cl. 117—72.
Berry, Kenneth L., to E. I. du Pont de Nemours and Co. Titanium dioxide fibers and their preparation. 3,030,183, 4–17–62, Cl. 23—202.
Berry, Michael J., to The Trix Electrical Co., Ltd. Column speakers suitable for use in public address systems. 3,052,-758, 9–4–62, Cl. 179—1.
Berry, Richard C., to Crouse-Hinds Co. Cable clamping assembly. 3,040,120, 6–19–62, Cl. 174—77.
Berry, Richard C., and H. J. Stier, to Crouse-Hinds Co. Plug and receptacle unit. 3,041,420, 6–26–62, Cl. 200—50.
Berry, Robert W., Jr.: *See*—
Bader, William, and Berry. 3,052,952.
Bader, William, and Berry. 3,059,316.
Berry, Theodore L.: *See*—
Gieske, William R., and Berry. 3,033,114.
Berry, Virgil J., Jr., R. O. Leach, and O. R. Wagner, Jr., to Pan American Petroleum Corp. Recovery of oil from an underground formation. 3,028,912, 4–10–62, Cl. 166—9.
Berry, Walter V. Lance with conduits for mixing gases located interiorly. 3,043,577, 7–10–62, Cl. 266—34.
Berry, William J.: *See*—
Berry, John C. and W. J. 3,019,572.
Berry, William S. Sewer and pipe cleaner. 3,064,392, 11–20–62, Cl. 15—104.3.
Berryhill, Joseph L., to Mechron. Digital data recording device. 3,047,675, 7–31–62, Cl. 179—100.3.
Berryman, Arthur: *See*—
Garner, Gail. 3,059,443.
Berryman, William L., and M. A. Schwartz, to Johnson & Johnson. Package. 3,056,493, 10–2–62, Cl. 206—63.2.
Bers, Naum S., to Space Technology Laboratories, Inc. Resolver type function generator. 3,052,859, 9–4–62, Cl. 336—131.
Berst, Carl J., to Armour and Co. Aging of cheese in consumer size packages. 3,060,035, 10–23–62, Cl. 99—178.
Berst, Neil W.: *See*—
Kavaggia, Frederick, Berst, and Alt. 3,067,080.
Krueger, Robert H., Berst, and Alt. 3,039,970.
Berstein, Gregor, and W. F. Roemelt. Novel pigment compositions. 3,065,093, 11–20–62, Cl. 106—253.
Bersworth, Frederick C., to The Dow Chemical Co. Method of correcting trace metal deficiencies in soil by applying a mixture of free chelating agent and iron chelate thereto. 3,051,563, 8–28–62, Cl. 71—1.
Bersworth, Frederick C., and J. J. Singer, Jr., to The Dow Chemical Co. Recovery and reuse of complexing agents from spent solutions. 3,033,214, 5–8–62, Cl. 134—13.
Berta, Remo J.: *See*—
Haumann, Wilfried, and Berta. 3,052,370.
Bertazzoli, Cesare: *See*—
Arcamone, Federico, Bertazzoli, Ghione, and Scotti. 3,065,147.
Di Marco, Aurelio, Boretti, Barchielli, Spalla, Cattapan and Bertazzoli. 3,026,316.
Bertelsen, Bruce I., to International Business Machines Corp. Vacuum evaporation apparatus. 3,024,761, 3–13–62, Cl. 118—49.1
Bertelsen, Bruce I., and H. J. Kump, to International Business Machines Corp. Magnetic recording. 3,058,112, 10–9–62, Cl. 346—74.
Bertelsen, William R. Plow. 3,063,506, 11–13–62, Cl. 172—755.
Bertenshaw, Allen E., and F. J. Bazata, to International Harvester Co. Level indicator for fork type lift trucks. 3,049,257, 8–14–62, Cl. 214—674.
Berthelin, Bruno P., to Societe de Prospection Electrique, Procedes Schlumberger. Core sampling arrangement for operation inside geological layers. 3,016,959, 1–16–62, Cl. 175—4.
Berthet, Francois: *See*—
Desvaux, Jacques, and Berthet. 3,023,820.
Berthiaume, Laurent: *See*—
Campbell, Norman B., and Berthiaume. 3,041,329.
Berthiez, Charles W., to Innocenti Societa Generale per Industria Metallurgica e meccanica, Societe dite: Machine-tool head. 3,035,495, 5–22–62, Cl. 90—14.
Berthon, Lucien.: *See*—
Charpentier, Maurice, and Berthon. 3,020,586.
Berthon, Lucien, M. Levecque, and P. Piot, to Societe Anonyme des Manufactures des Glaces & Produits Chimiques de Saint-Gobain, Chauny & Cirey. Process and apparatus for the manufacture of fiber linings or mats. 3,020,585, 2–13–62, Cl. 18—2.5.
Bertin & Cie, Societe: *See*—
Bertin, Jean H., and Le Nabour. 3,029,045.
Bertin, Jean H., and Le Nabour. 3,045,947.
Bertin, Jean H., and Salmon. 3,032,155.
Bertin, Jean H., and Salmon. 3,034,769.
Duthion, Louis, and Bertin. 3,039,560.
Le Nabour, Marcel P., and Bertin. 3,030,005.
Szydlowski, Joseph. 3,032,313.
Bertin, Daniel: *See*—
Joly, Robert, and Bertin. 3,033,872.
Nomine, Gerard, and Bertin. 3,019,252.
Nominé, Gerard, and Bertin. 3,050,550.
Nomine, Gerard, Bertin, and Bucourt. 3,055,884.
Nomine, Gerard, Bertin, Bucourt, and Pierdet. 3,055,885.
Nomine, Gerard, Bertin, and Fritel. 3,068,252.
Nomine, Gerard, Bertin, and Jolly. 3,032,567.
Nomine, Gerard, Bertin, and Tessier. 3,020,296.
Nomine, Gerard, Bertin, and Vignau. 3,056,811.
Velluz, Léon, Bertin, Pesez, and Berret. 3,068,071.
Velluz, Leon, Nomine, and Bertin. 3,033,751.
Bertin, Daniel, to Roussel-UCLAF., S.A. 20β,21-dinitrato-Δ^4-pregnene-17α-ol-3, 11-dione, its production and method of use. 3,054,812, 9–18–62, Cl. 260—397.45.
Bertin, Daniel, and L. Nedelec, to Roussel-UCLAF. 20-hydroxymethylpregnanes and process for producing same. 3,056,-778, 10–2–62, Cl. 260—239.55.
Bertin, Daniel, A. Locatelli, J. Mathieu, G. Muller, and H. Fritel, to Roussel-UCLAF, S.A. Bis-(hydroxy-methyl)-5α-pregnanes and derivatives thereof. 3,052,675, 9–4–62, Cl. 260—239.55.
Bertin, Jean H.: *See*—
Duthion, Louis, and Bertin. 3,039,560.
Le Nabour, Marcel P., and Bertin. 3,030,005.
Bertin, Jean H., M. Kadosch, and F. M. L. Maunoury, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Aerodynamical braking jet deflecting device. 3,016,699, 1–16–62, Cl. 60—35.54.
Bertin, Jean H., M. Kadosch, and F. M. L. Maunoury, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Control means of the flow of a fluid by another flow. 3,020,709, 2–13–62, Cl. 60—35.6.
Bertin, Jean H., and M. Kadosch, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Thrust spoiling device for jet propulsion units. 3,020,713, 2–13–62, Cl. 60—35.54.
Bertin, Jean H., M. Kadosch, F. M. L. Maunoury, L. M. G. De La Salle, and H. Turinetti, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Arrangements for deflecting the jet expelled from a discharge nozzle or from a reaction-propulsion unit. 3,024,602, 3–13–62, Cl. 60—35.54.
Bertin, Jean H., and M. P. Le Nabour, to Societe Bertin & Cie. Ejector systems applicable to thrust generation or augmentation. 3,029,045, 4–10–62, Cl. 244—12.
Bertin, Jean H., and B. J. M. Salmon, to Bertin & Cie, Societe. Free-wheel mechanisms. 3,032,155, 5–1–62, Cl. 192—41.
Bertin, Jean H., and B. J. Salmon, to Bertin & Cie, Societe. Heat exchangers. 3,034,769, 5–15–62, Cl. 257—73.
Bertin, Jean H., L. A. J. Bauger, M. Kadosch, and F. M. L. Maunoury, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Control for varying the cross-sectional area of a nozzle. 3,041,823, 7–3–62, Cl. 60—35.6.
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Bertin, Jean H., M. Kadosch, H. Turinetti, and R. H. Marchal, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Jet reflecting device for jet propulsion units. 3,048,974, 8–14–62, Cl. 60—35.54.
Bertin, Jean H., M. Kadosch, and L. Duthion, to Societe Bertin & Cie. Steering device for rocket-propelled vehicles. 3,066,485, 12–4–62, Cl. 60—35.54.
Bertinot, Francis. Sizing apparatus. 3,019,898, 2–6–62, Cl. 209—102.
Bertling, Ronald J., to McGraw-Edison Co. Electrical switch. 3,052,786, 9–4–62, Cl. 200—170.
Bertoglio, Peter J., and D. J. Borges, to Contra Costa Waste Service, Inc. Material handling loading and transporting apparatus. 3,034,674, 5–15–62, Cl. 214—517.
Bertoli, Guido A.: *See*—
Brunetti, Leonello, and Bertoli. 3,063,060.
Bertolino, Joseph F. Lawn edger. 3,057,064, 10–9–62, Cl. 30—276.
Bertossa, Donald C., to Chicago Bridge & Iron Co. Method for cladding and product resulting therefrom. 3,055,096, 9–25–62, Cl. 29—471.5.
Bertossa, Giuseppe: *See*—
Conradin, Fritz, Bertossa, and Giesen. 3,030,429.
Bertozzi, Abele, Societa per Azioni: *See*—
Bertozzi, Aldo. 3,060,034.
Bertozzi, Aldo, to Societa per Azioni Abele Bertozzi. Process for preserving crustless pieces of Parmesan cheese. 3,060,-034, 10–23–62, Cl. 99—162.
Bertram, Eduard, and A. Diez, to Karl Schmidt, G.m.b.H. Billet. 3,017,042, 1–16–62, Cl. 214—10.5.
Bertram, Ernst, and Wilhelm: *See*—
Bertram, Wilhelm. 3,069,985.
Bertram, Henry J. Fish attractor. 3,023,533, 3–6–62, Cl. 43—41.
Bertram, Howard W.: *See*—
Rose, Arnold S., and Bertram. 3,054,174.

Bertram, John C., to Bertram Wire Products, Inc. Handle. 3,026,008, 3–20–62, Cl. 224—45.
Bertram, Joseph J.: *See*—
Lazar, Michael, and Bertram. 3,028,575.
Bertram, Joseph J., and J. E. Antes, to Burndy Corp. Connector assembly. 3,031,638, 4–24–62, Cl. 339—217.
Bertram, Joseph J., and F. J. Canevari, to Burndy Corp. Electrical connector hood assembly. 3,054,081, 9–11–62, Cl. 339—103.
Bertram, Wallace H. Portable toilet. 3,063,061, 11–13–62, Cl. 4—194.
Bertram, Wilhelm, to Bertram, Ernst, and Wilhelm. Adjusting device for cameras. 3,069,985, 12–25–62, Cl. 95—10.
Bertram Wire Products, Inc.: *See*—
Bertram, John C. 3,026,008.
Bertrand, Georges. Control device for universal motors, chiefly for motors driving sewing machines. 3,035,217, 5–15–62, Cl. 318—246.
Bertrand, Jacques R. R., to Societe Anonyme des Caves & des Producteurs Reunis de Roquefort. Machine for cutting cheeses of cylindrical shape into sector portions. 3,046,656, 7–31–62, Cl. 31—26.
Bertrand, Joseph V. High temperature seal assembly. 3,049,370, 8–14–62, Cl. 288—14.
Bertsche, Ralph H., Jr.: *See*—
Redick, David C., Cameron, Bertsche, and Yahn. 3,020,771.
Bertsche, Ralph H., Jr., and R. J. Pattison, to General Motors Corp. Tubular lamp fixture. 3,060,310, 10–23–62, Cl. 240—51.11.
Berweger, Erwin, to H. A. Schlatter Aktiengesellschaft. Arrangement for controlling A.C. circuits. 3,036,260, 5–22–62, Cl. 321—16.
Berwick, Albert G. and W. R., to Gaskell & Chambers Ltd. Apparatus for storing and dispensing milk and similar beverages. 3,036,820, 5–29–62, Cl. 259—43.
Berwick, William R.: *See*—
Berwick, Albert G. and W. R. 3,036,820.
Berzins, Talivaldis, to E. I. du Pont de Nemours, and Co. Plating bath and process. 3,021,267, 2–13–62, Cl. 204—51.
Berzins, Talivaldis, to E. I. du Pont de Nemours and Co. Alloy and composite metal plate. 3,045,334, 7–24–62, Cl. 29—194.
Beschke, Helmut: *See*—
Schuler, Wilhelm A., Beschke, and von Schlichtegroll. 3,040,043.
Besel, Wilhelm, to Reimers-Getriebe KG, Firma. Variable stepless chain gear. 3,049,933, 8–21–62, Cl. 74—230.17.
Besel, Wilhelm, T. Englert, and K. Mayer. Automatic tensioning device for conveyor belts. 3,064,797, 11–20–62, Cl. 198—208.
Beseler, Charles, Co.: *See*—
Wade, Roger, Nemesnyik, and Brown. 3,028,790.
Besemer, Richard L., to Robertshaw-Fulton Controls Co. Switch actuator mechanism. 3,040,152, 6–19–62, Cl. 200—172.
Besendorf, Hedwig, A. Brossi, and O. Schnider, to Hoffmann-La Roche Inc. Tetrahydroisoquinoline derivatives and process for the manufacture thereof. 3,067,203, 12–4–62, Cl. 260—289.
Besley, Serena S. Three dimensional puzzle. 3,065,970, 11–27–62, Cl. 273—160.
Besly-Welles Corp.: *See*—
Busey, James D. 3,049,112.
Busey, James D., Garnett, Hill, and Napp. 3,063,203.
Welles, Donald P., Jr. 3,050,755.
Welles, Donald P., Jr. 3,067,509.
Welles, Donald P., Jr., and Hill. 3,038,253.
Bespalko, Stephen: *See*—
Young, Carl T., and Bespalko. 3,038,026.
Bessant, Kenneth H. C., and R. J. S. Matthews, to The Distillers Co. Ltd. Vinyl chloride polymerisation process. 3,067,186, 12–4–62, Cl. 260—92.8.
Bessarab, Michael, to General Electric Co. Magnetron circuit apparatus. 3,020,446, 2–6–62, Cl. 315—39.71.
Besse, Arthur L., Jr.: *See*—
Baird, William G., Jr., Lindstrom, D'Entremont, and Besse. 3,022,543.
Bessen, Irwin I., to Philips Electronics, Inc. X-ray diffractometry. 3,023,311, 2–27–62, Cl. 250—51.5.
Besser, Joseph R. Air and liquid spray gun. 3,042,315, 7–3–62, Cl. 239—413.
Bessette, Albert R., and R. N. Martin. Paint brush guide. 3,049,741, 8–21–62, Cl. 15—248.
Bessiere, Pierre E. Self-regulating reciprocating action pumps. 3,016,835, 1–16–62, Cl. 103—.5.
Bessiere, Pierre E. Reciprocating action pumps, in particular fuel injection pumps. 3,016,838, 1–16–62, Cl. 103—38.
Bessiere, Pierre E., to Compagnie Telma. Eddy currents braking apparatus. 3,026,431, 3–20–62, Cl. 310—93.
Bessiere, Pierre E. Self-regulating reciprocating pumps. 3,029,737, 4–17–62, Cl. 103—4.
Bessiere, Pierre E. Fuel injection devices. 3,035,562, 5–22–62, Cl. 123—139.
Bessiere, Pierre E. Self-regulating reciprocating pumps, in particular for the injection of fuel into internal combustion engines. 3,044,404, 7–17–62, Cl. 103—41.
Bessiere, Pierre E. Fuel injection systems for internal combustion engines with automatic variation of the advance of fuel injection. 3,046,963, 7–31–62, Cl. 123—139.
Bessiere, Pierre E. Regulating devices for reciprocating action pumps and in particular fuel injection pumps. 3,059,579, 10–23–62, Cl. 103—41.
Bessiere, Pierre E. Self-regulating reciprocating pumps, and in particular in fuel injection pumps for internal combustion engines. 3,065,701, 11–27–62, Cl. 103—41.
Bessler, Alfred, H. Rabe, H. Dobbelstein, and H. von Ey, to Alfred Teves Maschinen- und Armaturenfabrik K.G. Segment disk brake. 3,056,472, 10–2–62, Cl. 188—73.
Bessler, Alfred, H. Rabe, H. Dobbelstein, and H. Von Ey, to Alfred Teves Maschinen- und Armaturenfabrik K.G. Segment-type disk brake and hydraulic cylinder arrangement therefor. 3,065,829, 11–27–62, Cl. 188—73.
Besson, René: *See*—
Beyner, André, and Besson. 3,052,082.
Best, Albert H.: *See*—
Bain, Joseph P., and Best. 3,023,253.
Bain, Joseph P., and Best. 3,064,311.
Best, Bushnell, to Great Lakes Carbon Corp. Purification of graphite with chlorinated hydrocarbons. 3,035,901, 5–22–62, Cl. 23—209.9.
Best, Charles L., and O. S. Nielsen, to The J. R. Clark Co. Ladder construction. 3,068,957, 12–18–62, Cl. 182—26.
Best, Chris E.: *See*—
Reid, Robert J., and Best. 3,019,208.
Best, Chris E., to The Firestone Tire & Rubber Co. Preparation of nylon derivatives. 3,038,885, 6–12–62, Cl. 260—78.
Best, Cyril: *See*—
Molins, Desmond W., and Best. 3,039,589.
Best, Cyril, to Molins Machine Co. Ltd. Apparatus for receiving cigarettes or similar rod-like articles. 3,039,590, 6–19–62, Cl. 198—31.
Best, David M. Scraper tool. 3,032,114, 5–1–62, Cl. 166—173.
Best, James R., to Owens-Corning Fiberglas Corp. Fibrous glass air filters. 3,023,839, 3–6–62, Cl. 183—49.
Best, Stanley G., to United Aircraft Corp. Collective pitch bias. 3,034,583, 5–15–62, Cl. 170—135.74.
Best, Stanley G., to United Aircraft Corp. Ram air control for aircraft air conditioning system. 3,045,983, 7–24–62, Cl. 257—276.
Best, Stanley G., to United Aircraft Corp. Compressor surge control. 3,047,210, 7–31–62, Cl. 230—115.
Best, Stanley G., to United Aircraft Corp. Sealing means for compressor drive shaft. 3,069,173, 12–18–62, Cl. 277—3.
Beste, Lawrence F., and C. W. Stephens, to E. I. du Pont de Nemours and Co. Composition comprising a synthetic linear polymer, organic solvent and an inorganic salt. 3,068,188, 12–11–62, Cl. 260—30.2.
Bestel, Erwin: *See*—
Knoll, Joseph, Bestel, and Stolp. 3,021,882.
Besten, Alfred D.: *See*—
Kummerer, Richard A., Besten, and Chester. 3,054,301.
Besterda, Louis. Apparatus for practicing bowling. 3,052,992, 9–11–62, Cl. 35—29.
Bestian, Herbert: *See*—
Beermann, Claus, and Bestian. 3,037,971.
Grundmann, Werner, Bestian, Bahr, and Sommer. 3,066,130.
Bestian, Herbert, G. Schäfer, and F. Quint, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. 3,6 bis-para-substituted-phenyl-amino-9-(2'-sulfo-phenyl)xanthene. 3,022,316, 2–20–62, Cl. 260—336.
Betancourt, Ralph E. Educational device. 3,055,118, 9–25–62, Cl. 35—9.
Beteiligungs- und Patentverwaltungsgellschaft mit beschrankter Haftung: *See*—
Berke, Hans J. O., and Kozelj. 3,069,861.
Bruderlein, Johannes E., and Rohr. 3,035,699.
Conrad, Hans J. 3,066,476.
Habermaas, Otto H., and Hoppmann. 3,020,107.
Linden, Günter. 3,020,656.
Lütcke, Helmut O. 3,055,164.
May, Wilhelm. 3,044,719.
Pelzer, Hans K. 3,052,364.
Reiff, Wilhelm, and Pelzer. 3,048,262.
Sedlacek, Hugo. 3,066,332.
Beter, Peter D.: *See*—
Cox, Pope D. 3,057,415.
Bethe, Eugene J., and E. J. Gunter, to United States Rubber Co. Process of making fabric-foam laminates. 3,032,828, 5–8–62, Cl. 18—59.
Bethe, Eugene J., and T. I. Haggerty, to United States Rubber Co. Fire-resistant polychloroprene foam rubber and method of making same. 3,033,804, 5–8–62, Cl. 260—2.5.
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Bethea, Malcolm, Jr. Clamping device for electrical conductors. 3,037,184, 5–29–62, Cl. 339—265.
Bethea, Malcolm, Jr. Electrical suspension clamp. 3,064,074, 11–13–62, Cl. 174—144.
Bethge, Walther, ¼ to J. P. de Montmollin, and ¼ to R. Gugger. Method of producing a durable mechanical bond between glass and another material. 3,021,243, 2–13–62, Cl. 156—272.
Bethke, John R.: *See*—
Glaser, David, and Bethke. 3,064,160.
Bethke, Raymond W., to McGraw-Edison Co. Rotary electric current interchange contact. 3,056,101, 9–25–62, Cl. 339—6.

Bethlehem Apparatus Co., Inc. : *See*—
Nieman, Henry W. 3,038,529.
Bethlehem Steel Co. : *See*—
Bigge, Henry C. 3,019,496.
Coscia, Lewis G., and Grander. 3,045,094.
Frey, Russel M. 3,063,641.
Gathman, David W. 3,017,739.
Hargens, Charles W., III, Irish, and Horscroft. 3,027,086.
Horton, James B., and Frye. 3,036,934.
Kern, Fred W. 3,026,074.
Larpenteur, Bernard J. 3,053,647.
Maginnis, James W. 3,067,551.
Mancke, Edgar B., Schmuk, and Temmel. 3,021,189.
Melloy, George F., and Wise. 3,060,016.
Rechtin, Eberhardt C. 3,058,189.
Reider, Richard B. 3,053,456.
Roecker, Earl E. 3,062,573.
Seibert, Howard F. 3,044,329.
Steffensen, Percy L. 3,063,582.
Walmsley, James L. 3,017,915.
Betonbau G.m.b.H. : *See*—
Feige, Kurt. 3,042,432.
Klaus, Ernst M. 3,062,341.
Betsworth, Charles L. Iron support stand and holder. 3,059,885, 10–23–62, Cl. 248—117.1.
Bettcher, Louis A. Trimming and slicing device. 3,024,532, 3–13–62, Cl. 30—276.
Bettenhausen, Arnold H. Self-aligning valve seating tool. 3,034,269, 5–15–62, Cl. 51—241.
Better Belts, Inc. : *See*—
Stollman, Harry E. 3,017,641.
Better, Bernard R., to Scully-Jones and Co. Tool centering device. 3,041,598, 7–3–62, Cl. 77—58.
Better Industries, Inc. : *See*—
Corsentino, Joseph. Re. 25,306.
Better Packages, Inc. : *See*—
Krueger, Theodore H. 3,015,925.
Krueger, Theodore H., and Campanaro. 3,037,477.
Krueger, Theodore H., and Gruttadauria. 3,029,355.
Bettin, Hubertus, to Olympia Werke A.G. Matrix arrangement for data processing machines. 3,036,175, 5–22–62, Cl. 200—98.
Bettin, Roger R., A. Hahnel, J. E. R. Harrison, and E. W. Schwittek, to General Dynamics Corp. Digitally tuned transmitter-receiver. 3,054,057, 9–11–62, Cl. 325—383.
Bettis Rubber Co. : *See*—
Minor, Burt S. 3,054,646.
Minor, Burt S. 3,055,036.
Minor, Burt S. 3,061,862.
Bettison, David C., to Railroad Accessories Corp. Apparatus for reducing friction between railroad car wheels and rails. 3,051,262, 8–28–62, Cl. 184—3.
Bettoli, Phillip S., and C. R. Eckert, to The Ruberoid Co. Production of water-repellent asbestos-cement products. 3,027,294, 3–27–62, Cl. 162—154.
Bettoni, Eugene C., to Holley Carburetor Co. Ignition distributor. 3,043,285, 7–10–62, Cl. 123—117.
Bettoni, Eugene C., to Holley Carburetor Co. Ignition distributor. 3,060,749, 10–30–62, Cl. 73—509.
Betts, Brevard O. : *See*—
Betts, Wilmer Z. and B. O. 3,026,556.
Betts, Raymond L. : *See*—
Weikart, John, and Betts. 3,066,094.
Betts, Robert, to International Business Machines Corp. Electronic translating means. 3,041,598, 6–26–62, Cl. 340—347.
Betts, Wilmer Z. and B. O. Shoeshine box. 3,026,556, 3–27–62, Cl. 15—265.
Betz, Karl, to Mitteldeutsche Kuehlerfabrik G.m.b.H. Brake shoe and method of making same. 3,017,966, 1–23–62, Cl. 188—252.
Betzel, Alvin E., Sr. Brush drive means for cleaning cylindrical surfaces. 3,050,759, 8–28–62, Cl. 15—104.04.
Betzhold, George R., and R. J. Conrad, to Allis-Chalmers Mfg. Co. Process for silicone rubber coil insulation. 3,067,081, 12–4–62, Cl. 156—56.
Betzold, Edward J., Jr., and J. H. Crow, to Nuclear Corp. of America, Inc. Radiation detector probes. 3,025,404, 3–13–62, Cl. 250—207.
Beu, Richard A. : *See*—
Franwick, Edmond J., and Beu. 3,054,402.
Beucher, Charles, to North American Philips Co., Inc. Transmission system. 3,066,201, 11–27–62, Cl. 179—170.2.
Beuerman, Donald R. : *See*—
Snider, Orville E., Belden, Beuerman, and Seebohm. 3,021,326.
Beurle, Raymond L., to English Electric Valve Co. Ltd. Image reproducers. 3,038,959, 6–12–62, Cl. 178—7.2.
Beurle, Raymond L., to English Electric Valve Co. Ltd. Television and like camera tubes. 3,048,728, 8–7–62, Cl. 313—65.
Beurtheret, Charles, to Thomson-Houston, Compagnie Francaise. Nuclear reactor. 3,034,975, 5–15–62, Cl. 204—193.2.
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Beurtheret, Charles A. E., to Compagnie Francaise Thomson-Houston. Heat exchangers. 3,055,643, 9–25–62, Cl. 257—250.
Beuscher, Donald A. Selective carrier type communication system. 3,045,066, 7–17–62, Cl. 179—2.5.
Beusse, Hans, and G. Schukat, to Hamburger Flugzeugbau G.m.b.H. Electric generator system with constant frequency. 3,067,381, 12–4–62, Cl. 322—90.
Beutell, Robert O. : *See*—
Tauschek, Max J., Cherrie, and Beutell. 3,016,601.
Beuther, Harold, R. A. Flinn, and O. A. Larson, to Gulf Research & Development Co. Treatment of petroleum fractions by the separation of asphaltic material. 3,053,750, 9–11–62, Cl. 208—45.
Beutler, Friedrich A. Filter. 3,050,192, 8–21–62, Cl. 210—488.
Beutner, Grant C., RB. and P Chemical and Supply, Inc. Lithographic plate cleaner and regreaser. 3,060,848, 10–30–62, Cl. 101—149.2.
Bevard, Roger L., to Lake Shore, Inc. Material handling apparatus. 3,061,112, 10–30–62, Cl. 212—74.
Bevard, Roger L., to Lake Shore, Inc. Counterbalanced cargo handling apparatus. 3,063,572, 11–13–62, Cl. 212—15.
Bevarly, Henry W., to Chemetron Corp. Heat treatment of homogenized materials. 3,019,110, 1–30–62, Cl. 99—122.
Beverly Vogue Co., Inc. : *See*—
Darcey, Joy S. 3,022,788.
Bevers Anchor, Inc. : *See*—
Bevers, Maynard O. 3,026,840.
Bevers, Eugene J., and R. J. Wente, to General Motors Corp. Torque limiter. 3,048,013, 8–7–62, Cl. 60—39.28.
Bevers, Maynard C., to Bevers Anchor, Inc. Anchor. 3,026,840, 3–27–62, Cl. 114—208.
Be Vier, Joseph H., and W. E. Hydraulically operated control system. 3,063,425, 11–13–62, Cl. 121—41.
Bevier, Theodore S. Automatic tape dispenser with separate printed tape feed. 3,042,104, 7–3–62, Cl. 156—510.
Be Vier, William E. : *See*—
Be Vier, Joseph H. and W. E. 3,063,425.
Bevilacqua, Emerco S., to Minneapolis-Honeywall Regulator Co. Unijunction transistor oscillator voltage monitoring circuit. 3,026,505, 3–20–62, Cl. 340—253.
Bevilacqua, Frank, D. F. Uecker, and E. F. Groh, to United States of America, Atomic Energy Commission. Spring driven actuating mechanism for nuclear reactor control. 3,018,240, 1–23–62, Cl. 204—193.2.
Bevill, Claude. Row crop gatherer. 3,035,387, 5–22–62, Cl. 56—28.
Bevington, William J., to James B. Clow and Sons, Inc. Pipe plug. 3,051,200, 8–28–62, Cl. 138—89.
Bevis, Enid : *See*—
Smith, Robert R., Mann, and Bevis. 3,066,085.
Bevis, George E., P. C. Hungerford, Jr., and R. F. Neff, to Curtiss-Wright Corp. Steering mechanisms. 3,039,420, 6–19–62, Cl. 115—18.
Bevis, Michael M. Loading platform. 3,023,831, 3–6–62, Cl. 182—82.
Bey, Ahmet K. : *See*—
Budreck, Frances, and Bey. 3,034,025.
Beyer, Carlton E., and R. B. Dahl, to The Dow Chemical Co. Method of molding expandable thermoplastic resinous beads. 3,058,161, 10–16–62, Cl. 18—48.
Beyer, Christa : *See*—
Beyer, Eugen. 3,056,134.
Beyer, Diana : *See*—
Beyer, Eugen. 3,056,134.
Beyer, Eugen. Magnetic recording apparatus with correction device. 3,021,395, 2–13–62, Cl. 179—100.2.
Beyer, Eugen, deceased, by M. Beyer, nee Feist, and F. R., D. and C. Beyer, heirs, to F. R., D., and C. Beyer. Transporting apparatus for record sheets. 3,056,134, 9–25–62, Cl. 346—22.
Beyer, Fred K., and W. Bader, to Wesson Corp. Vise. 3,053,557, 9–11–62, Cl. 287—91.
Beyer, Fred R. : *See*—
Beyer, Eugen. 3,056,134.
Beyer, Hallm, to Cornell-Dubilier Electric Corp. Tubular capacitor and method of making same. 3,060,356, 10–23–62, Cl. 317—242.
Beyer, Jeno, and C. J. Gonsalves, to American Enka Corp. Method and apparatus for forming cord. 3,017,738, 1–23–62, Cl. 57—58.3.
Beyer, John H., J. H. Foreman, and L. R. Parks, to The Buckeye Cellulose Corp. Paper of improved strength. 3,031,371, 4–24–62, Cl. 162—146.
Beyer, Martha : *See*—
Beyer, Eugen and F. R. 3,056,134.
Beyer-Olsen, Knut, and O. Steffensen. Inflatable buoyant body having conical fastening member thereon. 3,020,669, 2–13–62, Cl. 43—43.1.
Beyerle, Peter J. Plumbing assembly. 3,021,103, 2–13–62, Cl. 248—57.
Beyerlein, Herbert, to Durrwerke Aktiengesellschaft. Once-through vapor generator. 3,019,774, 2–6–62, Cl. 122—406.
Beyerstedt, Ralph L., to The Frank G. Hough Co. Tractor steering arrangement. 3,047,307, 7–31–62, Cl. 280—95.
Beyl, Jean-Joseph A. Safety ski binder. 3,027,173, 3–27–62, Cl. 280—11.35.
Beyler, Roger E. : *See*—
Arth, Glen E., Beyler and Sarett. 3,054,811.
Arth, Glen E., Beyler, and Sarett. 3,068,250
Oberster, Arthur E., Beyler, and Sarett. 3,067,214.

Beyner, André, to Ebauches SA. Method for correcting the anisochronism of a timepiece, and the timepiece obtained by the application of this method. 3,028,511, 4–3–62, Cl. 310—36.

Beyner, André, and R. Besson, to Ebauches S.A. Electric timepiece. 3,052,082, 9–4–62, Cl. 58—23.

Beyner, Andre, R. Meister, and A. Hug, to Ebauches S.A. Electrically operated oscillatory system for time-pieces. 3,056,253, 10–2–62, Cl. 58—28.

Beyties, Deane A., to Pitney-Bowes, Inc. Decelerating device. 3,016,126, 1–9–62, Cl. 198—140.

Bez, Renatus S.: *See*—
Kufel, Stanley, Jr., and Bez. 3,029,436.

Bhat, Gopal K.: *See*—
Anthony, Harry L., III, and Bhat. 3,068,095.

Bhattacharyya, Sasanka C.: *See*—
Nayak, Ullal G., Chakravarti, and Bhattacharyya. 3,070,625.

Bhimani Bhupendrakumar V., to General Electric Co. Method for testing electrical insulator. 3,050,681, 8–21–62, Cl. 324—54.

Biach Industries, Inc.: *See*—
Biach, John L. 3,015,975.

Biach, John L., to Biach Industries, Inc. Bolt-tensioning apparatus. 3,015,975, 1–9–62, Cl. 81—54.

Bialy, Edward W., to The Singer Mfg. Co. Drive means for sewing machines. 3,051,109, 8–28–62, Cl. 112—220.

Bialy, Michael, and K. F. Kliesch, to Leslynn Products Corp. Last blocks and shoe lasts manufactured therefrom. 3,067,442, 12–11–62, Cl. 12—133.

Bianca, Edoardo G. Vehicle parking system. 3,018,903, 1–30–62, Cl. 214—16.1.

Bianca, Edoardo G., and K. Diebold. Method of making tapered tubular sections. 3,034,209, 5–15–62, Cl. 29—432.

Bianchi, Icilio W., Jr., and C. L. Erickson; said Erickson assor. to said Bianchi. Container for corsage. 3,026,997, 3–27–62, Cl. 206—45.14.

Bianchi, Valerio: *See*—
Pescarolo, Bruno, and Bianchi. 3,069,230.

Bianchi, Valerio, and B. Pescarolo, to Montecatini Societa Generale per l'Industria Minereria e Chimica. Process of preparing pure sodium hypophosphite. 3,052,519, 9–4–62, Cl. 23—107.

Bianco, Ernest E., and F. W. Zieba, to General Electric Co. Fluid duct for electrical apparatus. 3,059,043, 10–16–62, Cl. 174—16.

Bianco, Joseph, to Koppers Co., Inc. Dyeing of expandable polystyrene. 3,020,247, 2–6–62, Cl. 260—2.5.

Bianco, Natale. Vehicle safety device including automatic stopping mechanism. 3,037,576, 6–5–62, Cl. 180—82.

Biard, James R.: *See*—
Matzen, Walter T., and Biard. 3,046,487.

Biard, James R., to Texas Instruments Inc. Duty cycle modulated multivibrator. 3,037,172, 5–29–62, Cl. 332—14.

Biard, James R., to Texas Instruments Inc. Frequency modulated multivibrator with a constant duty cycle. 3,061,799, 10–30–62, Cl. 332—14.

Bibbins, Donald V.: *See*—
Bowman, Urban, and Bibbins. 3,052,105.

Bibbins, Gareth L., to Norton Co. Metal bonded abrasive composition. 3,036,907, 5–29–62, Cl. 51—309.

Biberman, Lucien M., and R. S. Estey, to United States of America, Navy. Multislit scanner. 3,034,405, 5–15–62, Cl. 88—61.

Bible, Roy H., Jr., to G. D. Searle & Co. 6-oxygenated 17α-(2-carboxyethyl)-17β-hydroxyandrost-4-en-3-one lactones. 3,015,656, 1–2–62, Cl. 260—239.57.

Bible, Roy H., Jr., to G. D. Searle & Co. 1,2,3,4,4a,9,10,10a-octahydro-7-hydroxy-6-methoxy-1,4α-dimethyl-phenanthrene-1(carboxylic acid/methanol) and corresponding esters. 3,038,930, 6–12–62, Cl. 260—488.

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Bible, Roy H., Jr., to G. D. Searle & Co. 4-[6-alkoxy-1-carboxy-1,2,3,4,4a,9,10,10a-octahydro-1,4a-dimethyl-9-oxo-7-phenanthrene (acyl/thionoacyl)]morpholines and esters thereof. 3,055,893, 9–25–62, Cl. 260—247.2.

Bibo, Denis M. System and apparatus for improving the operation of an engine. 3,016,890, 1–16–62, Cl. 123—122.

Bibolet, Aubert H.: *See*—
Robinson, Stephen B., Jr., and Bibolet. 3,055,730.

Bican, Josef: *See*—
Dubský, Bořivoj, Straka, and Bican. 3,017,575.

Bice, Charles C., to Phillips Petroleum Co. Propellants with improved burning rate. 3,018,204, 1–23–62, Cl. 149—19.

Bice, Charles C., to Phillips Petroleum Co. Solid composite propellant containing halogenated olefin. 3,027,283, 3–27–62, Cl. 149—19.

Bice, Charles C., to United States of America, Air Force. Propellant mixing process. 3,041,216, 6–26–62, Cl. 149—19.

Bice, Charles C., to Phillips Petroleum Co. Rocket propellants. 3,066,057, 11–27–62, Cl. 149—19.

Bice, Donald A.: *See*—
Mohr, Robert G., and Bice. 3,023,066.

Bicek, Edward J.: *See*—
Murray, Maurice J., and Bicek. 3,021,209.

Bichsel, Harry J.: *See*—
Adamson, Floyd E., and Bichsel. 3,048,693.
Cotter, George H., and Bichsel. 3,038,990.
Cotter, George H., Gamberg, and Bichsel. 3,030,496.

Bichsel, Harry J., and F. E. Adamson, to Westinghouse Electric Corp. Welding apparatus. 3,048,692, 8–7–62, Cl. 219—131.

Bichsel, Harry J., and F. E. Adamson, to Westinghouse Electric Corp. Arc welding method and apparatus. 3,069,533, 12–18–62, Cl. 219—131.

Bicicchi, Vincent A.: *See*—
Saar, Robert P., and Bicicchi. 3,032,835.

Bick, David E.: *See*—
Checkley, Peter E., and Bick. 3,040,676.

Bick, Edward H., to United States Steel Corp. Magnetic hoisting apparatus. 3,064,843, 11–20–62, Cl. 214—623.

Bick, John H., and J. L. Grever, to Radio Corp. of America. Position control system. 3,050,594, 8–21–62, Cl. 179—100.2.

Bick, Kenneth L., to Victor Adding Machine Co. Adding and label printing machine. 3,029,015, 4–10–62, Cl. 235—60.51.

Bickel, Ernest W., Jr.: *See*—
Barton, James F., Jr., and Bickel. 3,022,883.

Bickel, Fay D., and J. P. Zaruba, to Cherry-Burrell Corp. Freezing apparatus. 3,059,444, 10–23–62, Cl. 62—135.

Bickel, Hans: *See*—
Baumann, Ernst, Bickel, and Vischer. 3,033,760.

Bickel, Richard L., to Texas Instruments Inc. Transistor oscillator. 3,031,628, 4–24–62, Cl. 331—113.

Bickel, Richard L., W. C. Brooke, W. J. Day, E. D. McDonald, Jr., E. G. Millis, and J. L. Nygaard, to Texas Instruments Inc. Automated automatic tester for semiconductor units. 3,039,604, 6–19–62, Cl. 209—75.

Bickel, Wilhelm, to Joh. A. Benckiser, G.m.b.H. Method of curing meat and composition therefor. 3,029,150, 4–10–62, Cl. 99—222.

Bickelhaupt, Roy E.: *See*—
Baynes, Gene P., Bickelhaupt, and Backensto. 3,064,343.

Bickelhaupt, Roy E., and J. F. Masterson, to The Bendix Corp. Friction lining for brakes, clutches and the like. 3,019,514, 2–6–62, Cl. 29—182.5.

Bickerstaff, Inc.: *See*—
Brooks, Marion E. 3,066,968.
Brooks, Marion E. 3,069,196.

Bickerton, Roy J.: *See*—
Thonemann, Peter C., Carruthers, and Bickerton. 3,054,742.

Bickford, Harry G., to International Resistance Co. Electrical resistor and method of making the same. 3,060,063, 10–23–62, Cl. 117—217.

Bickford, Richard M., to United States of America, Army. Automatic frequency control circuit. 3,031,625, 4–24–62, Cl. 331—3.

Bickford, Walter S. Movable shower head. 3,048,851, 8–14–62, Cl. 4—145.

Bickhard, Jakob H.: *See*—
Von Polnitz, Wolfgang, Schwick, and Bickhard. 3,063,913.
Von Polnitz, Wolfgang, Schwick, and Bickhard. 3,063,914.

Bicking, Howard P., to United States of America, Navy. Voltage controlled gate generator. 3,030,583, 4–17–62, Cl. 328—150.

Bicking, John B. Certain derivatives of s-triazolo [4,3-a]-pyrazine. 3,049,525, 8–21–62, Cl. 260—296.

Bicking, John B., to Merck & Co., Inc. 1-(p-sulfamyl-phenyl)-pyrazole derivatives and method of preparation. 3,066,137, 11–27–62, Cl. 260—239.9.

Bickley Furnaces, Inc.: *See*—
Remmey, George B., and McFadden. 3,055,652.

Bickley, George H.: *See*—
Linda, Frank R., Klein, and Bickley. 3,056,665.

Bickler, Irving B., to Stewart-Warner Corp. Frequency control system for radio identification apparatus. 3,025,516, 3–13–62, Cl. 343—6.5.

Bickmore, John T., to Xerox Corp. Xerographic color masking. 3,043,686, 7–10–62, Cl. 96—1.

Bickmore, Robert W., to Hughes Aircraft Co. Finite focus wave energy antenna array. 3,039,098, 6–12–62, Cl. 343—771.

Bickoff, Emanuel M., A. L. Livingston, and A. N. Booth, to United States of America, Agriculture. 2-(2,4-dihydroxyphenyl)-6-hydroxy-coumarone-3-carboxylic acid salts. 3,027,382, 3–27–62, Cl. 260—346.2.

Biczok, Imre: *See*—
Lipcsey, Miklós, Biczok, and Horusth. 3,070,528.

Bidart, Arnaud P., to Zephyr Mfg. Co. Milling tool. 3,044,366, 7–17–62, Cl. 90—12.

Biddison, John M., to H. W. Moore. Coil winding machine. 3,025,977, 3–20–62, Cl. 214—1.

Biddle, Stanley R., to Addressograph-Multigraph Corp. Method of making plastic identification plates. 3,068,140, 12–11–62, Cl. 156—227.

Bidlingmaier, Meinrad, H. Schittko, and A. Manfreda, to Siemens & Halske Aktiengesellschaft. Selective voltage output measurement. 3,041,532, 6–26–62, Cl. 324—57.

Bidwell, Howard, ½ to R. Bidwell. Apparatus for the treatment of paper stock. 3,058,678, 10–16–62, Cl. 241—260.

Bidwell, Joseph B., to General Motors Corp. Hydraulic function generator. 3,018,041, 1–23–62, Cl. 235—61.

Bidwell, Joseph B., and R. S. Cataldo, to General Motors Corp. Single stick member for controlling the operation of motors vehicles. 3,022,850, 2–27–62, Cl. 180—77.
Bidwell, Rachel: *See*—
Bidwell, Howard. 3,058,678.
Bieber, Charles E., to Monroe Calculating Machine Co. Reel. 3,022,958, 2–27–62, Cl. 242—71.8.
Bieber, Clarence G., to The International Nickel Co., Inc. High strength creep resisting alloy. 3,048,485, 8–7–62, Cl. 75—128.
Bieber, Clarence G., to The International Nickel Co., Inc. Creep resistant alloy. 3,061,426, 10–30–62, Cl. 75—171.
Bieber, Samuel: *See*—
Hitchings, George H., and Bieber. 3,019,164.
Biedenbieck, Karl, and K. Kaufmann, to J. M. Voith, G.m.b.H. Thrust bearing for drilling turbines. 3,043,637, 7–10–62, Cl. 308—162.
Biedermann, Friedrich, and R. Wick, to Agfa Aktiengesellschaft. Photographic projection printing apparatus. 3,034,400, 5–15–62, Cl. 88—24.
Biedermann, Friedrich, and H. Pregl, to Agfa Aktiengesellschaft. Device for the reproduction of sound motion picture films. 3,048,081, 8–7–62, Cl. 88—16.2.
Biedermann, Friedrich, R. Wick, and J. Pfeifer, to Agfa Aktiengesellschaft. Method and apparatus for traffic surveillance. 3,060,434, 10–23–62, Cl. 346—107.
Biedermann, Walter, and G. Schetty, to J. R. Geigy A.-G. 1,2-pyrazolidinediones of monoazo dyes containing a 1,2-diphenyl-3,5-diketopyrazolidine coupling component. 3,062,806, 11–6–62, Cl. 260—147.
Biedess, Anthony R., to Goodman Mfg. Co. Rock loading machine. 3,048,287, 8–7–62, Cl. 214—90.
Biedess, Anthony R., to Goodman Mfg. Co. Brake for rock loading machine. 3,050,158, 8–21–62, Cl. 188—152.
Biedinger, Henry J., and C. J. Kuckhoff, to The Syracuse Stamping Co., Inc. Ribbon spool. 3,065,838, 11–27–62, Cl. 197—175.
Biefang, Ernst, to Rockwell G.m.b.H. Generator or pump assembly. 3,046,899, 7–31–62, Cl. 103—54.
Bieg, Henry C. Sun simulator for architects. 3,068,574, 12–18–62, Cl. 33—1.
Bieganski, Wladyslaw J., to Radio Corp. of America Frequency detector. 3,051,896, 8–28–62, Cl. 324—71.
Bieganski, Wladyslaw J., and A. L. Witchey, to Radio Corp. of America. Balanced pressure transducers. 3,034,356, 5–15–62, Cl. 73—398.
Bieger, Franz: *See*—
Weittenhiller, Hellmuth, Bieger, Schoß, Herbert, Dorschner, and Gross. 3,069,250.
Biehl, Arthur D., to United States of America, Atomic Energy Commission. Low power nuclear reactors. 3,042,599, 7–3–62, Cl. 204—193.2.
Biehl, Harold R., and D. T. Smith, to International Harvester Co. Method for cold extruding high density articles from ferrous metal powder. 3,060,560, 10–30–62, Cl. 29—420.5.
Biehn, Harold B. Secondary crusher. 3,064,907, 11–29–62, Cl. 241—232.
Biel, John H., to Lakeside Laboratories, Inc. Piperazinoalkyl glycolamides. 3,030,366, 4–17–62, Cl. 260—268.
Biel, John H., to Lakeside Laboratories, Inc. Derivatives of N-amino-1,2,3,4-tetrahydroisoquinoline. 3,037,984, 6–5–62, Cl. 260—287.
Biel, John H., to Lakeside Laboratories, Inc. 1-(beta phenylhydroxyethyl)-2-imino-1,2-dihydropyridine and hydrochloride. 3,040,050, 6–19–62, Cl. 260—296.
Biel, John H., to Lakeside Laboratories, Inc. Unsymmetrical mono-(aminoalkylene)-hydrazines. 3,051,707, 8–28–62, Cl. 260—247.5.
Biel, John H., to Lakeside Laboratories, Inc. Glycolic acid amide derivatives of piperazine and use thereof. 3,051,710, 8–28–62, Cl. 260—268.
Biel, John H., to Lakeside Laboratories, Inc. 4-(1,2,3,4, tetrahydroisoquinolino)-2-butyn-1-ol. 3,051,714, 8–28–62, Cl. 260—289.
Biel, John H., to Lakeside Laboratories, Inc. 5-pyrrolidone-2-carboxamides. 3,051,723, 8–28–62, Cl. 260—319.
Biel, John H., to Lakeside Laboratories, Inc. Glycolic acid esters of N-substituted-2-pyrrolidylcarbinols. 3,051,726, 8–28–62, Cl. 260—326.3.
Biel, John H., and F. F. Blicke; said Biel assor. to Lakeside Laboratories, Inc., and said Blicke assor. to the Regents of the University of Michigan. 2-(aminoalkyl)-3-hydroxypiperidines. 3,051,715, 8–28–62, Cl. 260—294.7.
Bielecki, Edward J., to Kawecki Chemical Co. Production of potassium fluotantalate from tantalum ore and the like. 3,051,547, 8–28–62, Cl. 23—19.
Bielenberg, James G., and C. J. Dauber, to Air Reduction Co., Inc. Improved-stabilized brazing fluxes and binders. 3,033,713, 5–8–62, Cl. 148—23.
Bielfeldt, Friedrich B.: *See*—
Breher, Rudolf, and Bielfeldt. 3,020,591.
Bieling, Carl R.: *See*—
Elder, James T., Bieling, and Blakeslee. 3,060,134.
Bielinski, Leo S. Three dimensional graph. 3,068,591, 12–18–62, Cl. 35—41.
Biello Stephen J., and H. Lindeboom, to Sealol Corp. Check valve with resilient auxiliary seal. 3,029,835, 4–17–62, Cl. 137—515.5.
Bielstein, Walter J., to Jersey Production Research Co. Method of perforating well casing. Re. 25,298, 12–11–62, Cl. 166—35.
Bielstein, Walter J., to Jersey Production Research Co. Well packer apparatus. 3,032,108, 5–1–62, Cl. 166—55.1.
Bien, Hans-Samuel: *See*—
Baumann, Fritz, and Bien. 3,068,057.
Bien, Hans-Samuel, and F. Baumann, to Bayer Aktiengesellschaft, Farbenfabriken. Process for dyeing synthetic textile materials. 3,037,836, 6–5–62, Cl. 8—55.
Bienert, Berthold, deceased (by H. Bienert, II, D. Prochaska, and B. K. Bienert, heirs), K. Breig, M. Groll, and H. Gutjahr, to Farbenfabriken Bayer Aktiengesellschaft. Phthalocyanine-sulfonamides and -carbonamides. 3,047,-882, 7–31–62, Cl. 260—310.
Bienert, Berthold K.: *See*—
Bienert, Berthold, Breig, Groll, and Gutjahr. 3,047,582.
Bienert, David H.: *See*—
Laucher, Richard G., Budge, Falconer, and Bienert. 3,040,426.
Bienert, Hildegard: *See*—
Bienert, Berthold, Breig, Groll, and Gutjahr. 3,047,582.
Bienfait, Louis A. J. Temperature indicating devices. 3,054,-378, 9–18–62, Cl. 116—114.5.
Bienvenue, Roland L.: *See*—
Swasey, Samuel E., Bienvenue, and Dwinell. 3,069,583.
Bienvenue, Roland L., E. F. Stacey, and S. E. Swasey, to Sylvania Electric Products Inc. Filament feeding, stretching and transfer apparatus. 3,063,474, 11–13–62, Cl. 140—71.6.
Bier, David, to Motorola, Inc. Control system. 3,037,113, 5–29–62, Cl. 250—20.
Bier, David, and P. H. Weismann, to Motorola, Inc. Switching circuit. 3,037,114, 5–29–62, Cl. 250—20.
Bier, Gerhard: *See*—
Rust, Kurt, Junghanns, Sommer, and Bier. 3,047,557.
Bier, Gerhard, G. M. Gumboldt, A. Hartmann, and W. Happe, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for improving the dyestuff-affinity of copolymers of acrylonitrile. 3,036,052, 5–22–62, Cl. 260—85.5.
Bierlin, A. W., Co.: *See*—
Bierlin, William E. 3,023,566.
Bierlin, William E., to A. W. Bierlin Co. Twister head drive. 3,023,566, 3–6–62, Cl. 57—104.
Bierman, Howard R.: *See*—
Timis, Geoffrey M., Hudson, Marshall, and Bierman. 3,041,241.
Bierman, Raymond C., to Motorola, Inc. Tape recorder. 3,042,331, 7–3–62, Cl. 242—55.13.
Biermann, Arnold E. Fluid pump. 3,050,012, 8–21–62, Cl. 103—140.
Biermann, David, to Hartzell Propeller, Inc. Adjustable pitch propeller having integral control system. 3,027,949, 4–3–62, Cl. 170—160.21.
Biermann, David, to Hartzell Propeller, Inc. Controllable pitch propeller. 3,057,410, 10–9–62, Cl. 170—160.21.
Biermann, Hans-Georg: *See*—
Heidenwolf, Hermann. 3,047,181.
Heidenwolf, Hermann. 3,048,296.
Biermann, Markus, to Continental Elektroindustrie A.B., Askania-Werke. Photometric device. 3,038,082, 6–5–62, Cl. 250—220.
Biermann, Markus, and C. Kuehne, to Askania-Werke A.G. Method of and means for comparison of two electrical potentials for purposes of photometry and the like. 3,046,404, 7–24–62, Cl. 250—203.
Biermann, William A.: *See*—
Johnson, Roy W., and Biermann. 3,020,923.
Biermann, William A., and H. E. Rowland, to Controls Co. of America. Variable thermostat anticipator. 3,064,103, 11–13–62, Cl. 200—122.
Biernatzki, Anton: *See*—
Ausserbauer, Helmut, and Biernatzki. 3,042,017.
Bierstock, Harry. Vacuum cleaner floor sweepings pick-up baseboard apparatus. 3,027,587, 4–3–62, Cl. 15—301.
Bierstock, Harry. Vacuum cleaner floor sweepings pick-up baseboard apparatus. 3,027,588, 4–3–62, Cl. 15—301.
Bierwirth, Henry C., and N. L. Rutgers, to Lennox Industries, Inc. Thermostat and control circuit for heating, air conditioning and ventilating system. 3,051,451, 8–28–62, Cl. 257—274.
Biesanz, Charles W., Sr., to Super-Cut, Inc. Rotary stone cutting saws with peripheral diamond teeth and intervening sweeper elements. 3,036,567, 5–29–62, Cl. 125—15.
Biesecker, Donald L., to Illinois Tool Works. Retainer bushing. 3,033,624, 5–8–62, Cl. 308—238.
Biesecker, Donald L., to Illinois Tool Works Inc. Hinge bushing. 3,065,035, 11–20–62, Cl. 308—15.
Biever, Robert E. Anti-splash liquid gas filler. 3,044,270, 7–17–62, Cl. 62—55.
Bifurcated & Tubular Rivet Co. Ltd., The: *See*—
Shackell, Arthur. 3,034,676.
Bigeault, Emile. System for electrically heating premises. 3,024,340, 3–6–62, Cl. 219—19.
Bigelow, Donald W. Ceiling construction. 3,030,670, 4–24–62, Cl. 20—4.
Bigelow, Floyd E. Portable building. 3,044,129, 7–17–62, Cl. 20—2.
Bigelow, Floyd E., Jr. Portable building. 3,023,463, 3–6–62, Cl. 20—22.
Bigelow, Floyd E., Jr. Portable building. 3,069,224, 12–18–62, Cl. 20—2.

Bigelow, John E., to General Electric Co. Pulse-train ratio apparatus. 3,040,983, 6–26–62, Cl. 235—152.
Bigelow, John E., to General Electric Co. Cigarette density gage. 3,050,026, 9–25–62, Cl. 250—83.3.
Bigelow, John E., F. W. Van Luik, S. B. Dunham, and T. A. Rich, to General Electric Co. Condensation nuclei detector. 3,037,421, 6–5–62, Cl. 88—14.
Bigelow-Liptak Corp.: *See*—
Sampson, Richard E. 3,026,826.
Bigelow-Sanford, Inc.: *See*—
Cameron, Darrell P. 3,052,365.
Parlin, David B., and Elliott. 3,060,072.
Reinhardt, Henry A., and Parlin. 3,019,508.
Big Four Industries, Inc.: *See*—
Brosene, William G., Jr. 3,064,718.
Brosene, William G., Jr., and Henderson. 3,032,095.
Biggam, Frank D., and R. J. Reek, to Teletype Corp. Telegraph synchronizers. 3,033,928, 5–8–62, Cl. 178—69.5.
Bigge, Henry C., to Bethlehem Steel Co. Vacuum casting apparatus. 3,019,496, 2–6–62, Cl. 22—73.
Bigge, Henry W., and W. A. Whitmire; said Whitmire assor. to said Bigge. Trailer stake system. 3,021,970, 2–20–62, Cl. 214—85.
Bigger, John W. Balance lift. 3,052,894, 9–11–62, Cl. 5—81.
Biggers, Earl H., to Patentex, Inc. Torque low twist yarn and machine and method for producing the same. 3,035,-396, 5–22–62, Cl. 57—34.
Biggers, William C. Safety guard attachment for the tailgate openings of station wagon vehicles. 3,049,373, 8–14–62, Cl. 296—106.
Biggi, Victor: *See*—
Broussaud, Georges, and Biggi. 3,034,064.
Biggi, Victor, and J.-C. Simon, to Compagnie Generale de Telegraphie Sans Fil. Panoramic receivers. 3,022,419, 2–20–62, Cl. 250—20.
Biggins, Edward R., and J. J. Dall, to Union Carbide Corp. Apparatus and method for filling manifolded gas container. 3,066,495, 12–4–62, Cl. 62—50.
Biggs, Ernest R., Jr., and H. E. Lewis, to Surgical Appliance Industries, Inc. Knee brace. 3,046,981, 7–31–62, Cl. 128—80.
Biggs, Robert O. Drilling tool. 3,040,824, 6–26–62, Cl. 175—319.
Bigler, Robert R., to Radio Corp. of America. Thermostatically controlled circuits. 3,068,338, 12–11–62, Cl. 219—20.
Bigliano, Robert P., and F. F. White, Jr., to E. I. du Pont de Nemours and Co. Capacitive power line voltmeter. 3,068,-409, 12–11–62, Cl. 324—111.
Bigo, Ernest H. P.: *See*—
Pagano, Carmine N., Bigo, and Hinton. 3,054,003.
Bigot, Bernard, to Compagnie de Saint-Gobain. Manufacture of sodium tripolyphosphate. 3,030,180, 4–17–62, Cl. 23—106.
Bigot, Bernard, to Compagnie de Saint-Gobain. Manufacture of complex fertilizers. 3,050,384, 8–21–62, Cl. 71—39.
Bigot, Bernard C., to Compagnie de Saint-Gobain. Process for manufacture of triple superphosphate. 3,025,152, 3–13–62, Cl. 71—41.
Bihler, Walter G., to Magnamatic Tool and Engineering, Inc. Apparatus for reforming and reloading used cartridges. 3,036,488, 5–29–62, Cl. 86—26.
Bihlmire, Otto L. Boat propeller. 3,033,293, 5–8–62, Cl. 170—159.
Bihrle, Harry J.: *See*—
Mathiason, Lauritz W., and Bihrle. 3,022,725.
Bijloo, Johan D., J. H. Uhlenbroek, J. Daams, to North American Philips Co., Inc. Method of destroying nematodes with polythienyl compounds. 3,050,442, 8–21–62, Cl. 167—33.
Bikales, Norbert M.: *See*—
Wellman, Victor E., and Bikales. 3,026,168.
Wellman, Victor E., and Bikales. 3,046,775.
Bikales, Norbert M., to American Cyanamid Co. Process of cyanoethylating cellulose in the presence of salts. 3,018,-156, 1–23–62, Cl. 8—116.2.
Bikales, Norbert M., and J. R. Stephens, to American Cyanamid Co. Production of amide containing cellulose. 3,029,-232, 4–10–62, Cl. 260—231.
Bikales, Norbert M., and W. O. Fugate, to American Cyanamid Co. Dielectric plastic composition. 3,067,141, 12–4–62, Cl. 252—63.2.
Bilanin, Frank, to Minnesota Mining and Mfg. Co. Sap collecting apparatus and venting means therefor. 3,057,115, 10–9–62, Cl. 47—52.
Bilbeisi, Ray. Luggage carrier. 3,058,636, 10–16–62, Cl. 224—42.07.
Bilek, Andrew G. Rotatable rocket launcher. 3,018,692, 1–30–62, Cl. 89—1.7.
Bil-Jax, Inc.: *See*—
Wyse, Wilbur M. 3,017,208.
Bill, Hugo. Apparatus for delivering a liquid in rations of any amount under action of a compressed gas. 3,052,377, 9–4–62, Cl. 222—61.
Billard, Anthony F. Spring and shackle connector. 3,022,-991, 2–27–62. Cl. 267—54.
Billeb, Clyde K., to Milprint, Inc. Easy opening thermoplastic wrapper. 3,066,848, 12–4–62, Cl. 229—87.
Billen, Peter, H. Robra, W. Müller, and H. Vievering, to Schloemann Aktiengesellschaft. Control of hydraulic forging presses. 3,031,903, 5–1–62, Cl. 78—42.
Billen, Peter, W. Dicks, and J. Legros, to Schloemann Aktiengesellschaft. Tube-testing machine for the simultaneous testing of a plurality of tubes. 3,054,283, 9–18–62, Cl. 73—49.5.
Billeruds Aktiebolag: *See*—
Bjorkman, Anders E. G. 3,057,770.
Rydholm, Sven A. 3,055,793.
Billeter, Henry R.: *See*—
Sloan, James A., and Billeter. 3,038,347.
Billeter, Henry R. to Liquid Controls Corp. Actuating counter. 3,057,553, 10–9–62, Cl. 235—132.
Billeter, Henry R., to Sloan Valve Co. Automatic self-cleaning shower heads. 3,061,190, 10–30–62, Cl. 239—109.
Billeter, Henry R., and G. B. Richards, to Liquid Controls Corp. Liquid-level controlled devices. 3,021,861, 2–20–62, Cl. 137—192.
Billeter, Jean-Rene: *See*—
Reichstein, Tadeus, Wettstein, Anner, Billeter, Heusler, Neher, Schmidlin, Ueberwasser, and Wieland. 3,033,-858.
Reichstein, Tadeus, Wettstein, Anner, Billeter, Heusler, Neher, Schmidlin, Ueberwasser and Wieland. 3,035,-049.
Billett, Ronald J., to FMC Corp. Conveyor for arranging articles in single file. 3,050,174, 8–21–62, Cl. 198—30.
Billett, S. Martin: *See*—
Caroselli, Remus F., Marzocchi, and Billett. 3,029,589.
Caroselli, Remus F., Marzocchi, and Billett. 3,029,590.
Billi, Giorgio. Yarn cutting means for knitting machine. 3,050,970, 8–28–62, Cl. 66—140.
Billi, Nadina. Eye cover attachment for monocular optical instrument. 3,045,527, 7–24–62. Cl. 88—1.
Billig, Franklin A.: *See*—
Washburn, Robert M., and Billig. 3,030,406.
Billig, Lewis S., and B. T. Newman, to General Electronic Laboratories, Inc. Information signal intelligibility measuring apparatus. 3,038,119, 6–5–62, Cl. 324—57.
Billinger, William F. Method and apparatus for cutting glass sheets. 3,044,216, 7–17–62, Cl. 49—48.
Billinger, William F. Automotive glass cutting machines. 3,044,353, 8–7–62, Cl. 33—27.
Billingham, Sam J., to Gast Mfg. Corp. Oiler. 3,040,836, 6–26–62, Cl. 184—83.
Billingsley, John G. S., to E. I. du Pont de Nemours and Co. Centrifugal drying. 3,045,359, 7–24–62, Cl. 34—8.
Billington, Evans R., to The Bastian-Blessing Co. Excess flow valve. Re. 27,272, 10–23–62, Cl. 137—316.
Billington, Evans R., to The Bastian-Blessing Co. Gas dispensing system. 3,054,529, 9–18–62, Cl. 222—6.
Billman, John H., and D. B. Borders. N-aralkylideneaminomaleimides. 3,048,585, 8–7–62, Cl. 260—240.
Billmeyer, James G.: *See*—
Williamson, Joseph R., and Billmeyer. 3,020,634.
Billmeyer, James G., to The Bendix Corp. Fastener construction and processes of mounting metal-ceramic compositions. 3,064,769, 11–20–62, Cl. 188—250.
Billner, Karl P. Filter. 3,028,012, 4–3–62. Cl. 210—499.
Billner, Karl P. Filter. 3,032,868, 5–8–62, Cl. 29—452.
Billner, Karl P., to Billner Vacuum Concrete, S.A. Vacuum lifter. 3,055,694, 9–25–62, Cl. 294—65.
Billner Vacuum Concrete, S.A.: *See*—
Billner, Karl P. 3,055,694.
Billot, Pierre R.: *See*—
Warolin, Christian J., and Billot. 3,026,350.
Billow, Arthur H.: *See*—
Berkey, Harry L., Billow, and Beckner. 3,060,467.
Bills, Lloyd W., to Flow Equipment Co., Inc. Fluid sealing system. 3,046,783, 7–31–62, Cl. 73—272.
Bills, Lloyd W., to Flow Equipment Co., Inc. Automatic fluid sampler. 3,062,055, 11–6–62. Cl. 73—422.
Billue, Robert F., to Thiele Kaolin Co. Fractured clay. 3,058,671, 10–16–62, Cl. 241—24.
Billups, James O. Clutches. 3,024,630, 3–13–62, Cl. 64—30.
Billups, James O. Anchor line positioning device. 3,035,535, 5–22–62, Cl. 114—.5.
Billups, James O. Anchor. 3,067,715, 12–11–62, Cl. 114—208.
Biloca, Georges A., and P. A. Vignoul. Log aligning mechanism. 3,029,923, 4–17–62. Cl. 198—29.
Biloca, Georges, to Forano Ltd. Log conveying apparatus. 3,038,587, 6–12–62, Cl. 198—127.
Biloca, Georges A., to Forano Ltd. Log feeding mechanism. 3,040,861, 6–26–62, Cl. 198—21.
Biloca, Georges A., to Forano Ltd. Log feeding machine. 3,048,285, 8–7–62, Cl. 214—83.18.
Bilsky, George J. Packaging means and method. 3,067,870, 12–11–62, Cl. 206—65.
Bilsky, Herbert W. Rechargeable electric batteries. 3,028,-536, 4–3–62, Cl. 320—2.
Bilsky, Hyman. Printing machine. 3,027,834, 4–3–62, Cl. 101—292.
Biltz, Francis J., to Electro-Solid Controls, Inc. Combination variable resistor and switch. 3,047,825, 7–31–62, Cl. 338—172.
Bilyeu, Archie E., to Aladdin Mfg. Co. Scent for attracting wild game and method for its use. 3,046,192, 7–24–62, Cl. 167—48.
Bilz, Otto. Tool chuck. 3,039,781, 6–19–62, Cl. 279—75.
Bimber, Russell M.: *See*—
Slezak, Frank B., and Bimber. 3,066,149.

Bimber, Russell M., to Diamond Alkali Co. Polyhalogenated tetrahydrophthalamic acid. 3,028,421, 4–3–62, Cl. 260—514.

Bindel, Paul: *See*—
Schieber, Hans, and Bindel. 3,064,703.

Binder, Hermann, and E. Friedrich, to Rieker & Co. Improvements in shoes with vulcanized soles. 3,026,637, 3–27–62, Cl. 36—14.

Binder, Karl, and C. W. Holm, deceased; by A. Holm, sole heir, to Wurttemberg Gaszahlerfabrik J. Braun & Co., G.m.b.H. Fuel consumption meter. 3,020,761, 2–13–62, Cl. 73—270.

Binder, Richard, to Fichtel & Sachs A.G. Friction coupling. 3,042,168, 7–3–62, Cl. 192—107.

Binder, Robert: *See*—
Forstner, Egon, and Binder. 3,017,943.

Binder, Rolf: *See*—
Wildbolz, Rudolf, Binder, and Staheli. 3,029,477.

Binder, Wilhelm, K.G., Maschinen-u. Elektro-Apparate Fabrik: *See*—
Binder, Wilhelm. 3,037,601.

Binder, Wilhelm. Ring airfoil aircraft. 3,017,139, 1–16–62, Cl. 244—12.

Binder, Wilhelm, to Wilhelm Binder, K.G., Maschinen-u. Elektro-Apparate Fabrik. Electro-magnetic clutch. 3,037,-601, Cl. 192—84.

Bin-Dicator Co., The: *See*—
Grostick, Norman L. 3,018,343.
Grostick, Norman L. 3,042,767.

Binding, Kenneth W., to Market Forge Co. Control valve for steam cooker. 3,063,464, 11–13–62, Cl. 137—241.

Bindler, Jakob: *See*—
Pugin, Andre, and Bindler. 3,057,873.

Bindler, Jakob, to J. R. Geigy, A.G. Derivatives of guanidine. 3,027,-376, 3–27–62, Cl. 260—256.4.

Binford, Benjamin L., to Magnetrol, Inc. Magnetic measuring apparatus. 3,046,475, 7–24–62, Cl. 324—44.

Binford, Benjamin L., to Magnetrol, Inc. Electric switch control means. 3,051,805, 8–28–62, Cl. 200—87.

Binford, Benjamin L., and A. P. Darsch, to Magnetrol, Inc. Switch. 3,037,103, 5–29–62, Cl. 200—112.

Binford, Robert S., W. C. O'Neill, and W. H. Clark, Jr., to General Electric Co. Afterburner fuel and nozzle area control. 3,034,292, 5–15–62, Cl. 60—35.6.

Bing, Herbert A., to Polaroid Corp. Photographic apparatus. 3,068,770, 12–18–62, Cl. 95—10.

Bing, Herbert A., and R. R. Wareham, to Polaroid Corp. Lens shade. 3,015,982, 1–9–62, Cl. 88—1.

Bing, John H.: *See*—
Raney, Russell R., Bing, and Colwill. 3,025,067.

Bingeman, J Byron: *See*—
Martell, William R., Bingeman, and Giraitis. 3,067,227.

Bingen, Roald, to Ateliers de Constructions Electriques de Charleroi. Automatic braking control system. 3,041,449, 6–26–62, Cl. 246—182.

Binger, Wayne W.: *See*—
Vandenburgh, David G., Binger, and Ponchel. 3,016,885.

Binger, Wayne W., and D. G. Vandenburgh, to Aluminum Co. of America. Elevated temperature liquid heating systems. 3,029,795, 4–17–62, Cl. 122—14.

Bingham, Francis R.: *See*—
Jensen, Otto, and Bingham. 3,067,361.

Bingham, George H., to Cambridge Rubber Co. Waterproof boot with enlarged throat opening. 3,022,583, 2–27–62, Cl. 36—7.2.

Bingham, George H., Jr., to Cambridge Rubber Co. Insulating and ventilating footwear. 3,025,614, 3–20–62, Cl. 36—3.

Bingham, George H., Jr., to Cambridge Rubber Co. Implement for use in making footwear. 3,034,158, 5–15–62, Cl. 12—103.

Bingham, George H., Jr., to Cambridge Rubber Co. Reinforced heel construction for ladies' overshoes. 3,034,232, 5–15–62, Cl. 36—7.3.

Bingham, George H., Jr., to Cambridge Rubber Co. Method of making footwear having waterproof soles. 3,035,291, 5–22–62, Cl. 12—142.

Bingham, George H., Jr., to Cambridge Rubber Co. Plastic footwear wherein a selected area of the bottom is of a material more resistant to wear than the material forming the boot upper. 3,035,309, 5–22–62, Cl. 18—58.

Bingham, George H., Jr., to Cambridge Rubber Co. Overshoe heel protector. 3,045,365, 7–24–62, Cl. 36—7.3.

Bingham, George H., Jr., to Cambridge Rubber Co. Method of making footwear. 3,046,581, 7–31–62, Cl. 12—142.

Bingham, George H., Jr., to Cambridge Rubber Co. Method of making machine-made platform-style shoes. 3,047,890, 8–7–62, Cl. 12—142.

Bingham, George H., Jr., and O. Y. Olsson, to Cambridge Rubber Co. Vulcanizing machine with spring release. 3,016,569, 1–16–62, Cl. 18—17.

Bingham, George H., Jr., and R. J. Kenworthy, to Cambridge Rubber Co. Method of providing an article made of moldable material with a distinctive surface area, for instance, an artificial seam. 3,025,545, 3–20–62, Cl. 12—146.

Bingham, George H., Jr., and O. Y. Olsson, to Cambridge Rubber Co. Welt in shoes with molded soles. 3,042,975, 7–10–62, Cl. 18—59.

Bingham-Herbrand Corp., The: *See*—
Hinsey, Robert S. 3,034,374.

Bingham, John L.: *See*—
Karpuk, Philip, and Bingham. 3,039,832.

Bingham, Robert E., and C. W. Beringer, to General Tire & Rubber Co. Suspension polymerized vinyl halide polymer containing a co-olymer of vinyl acetate and a mono olefinically substituted lactam, and method of making. 3,053,801, 9–11–62, Cl. 260—45.5.

Bingham, Robert E., H. D. Forrest, W. J. Hanlon,and J. L. Hutson, to The General Tire & Rubber Co. Process of producing blotter-type vinyl halide resin and product obtained thereby. 3,062,759, 11–6–62, Cl. 260—2.5.

Bingham, Sidney H. Symmetric truck for over-running monorail cars. 3,017,838, 1–23–62, Cl. 104—120.

Binghamton Container Co., Inc.: *See*—
Salmon, Peter L. 3,040,954.

Binhack, Josef. Swash-plate pump or motor. 3,026,814, 3–27–62, Cl. 103—162.

Binish, Stanley E.: *See*—
Kalata, Frank. 3,039,434.

Binkley, Clifford T.: *See*—
Binkley, William J. and C. T., and Packer. 3,018,026.
Binkley, William J. and C. T., and Packer. 3,025,850.

Binkley Co., The: *See*—
McKay, Harry M. 3,043,605.

Binkley, George W., and L. H. Robinson, Jr., to Jersey Production Research Co. Method and composition for cementing wells. 3,022,824, 2–27–62, Cl. 166—31.

Binkley Mfg. Co.: *See*—
McKay, Harry M. 3,033,522.

Binkley, William J. and C. T., and R. V. Packer; said Packer assor. to said W. J. and C. T. Binkley. Lingerie dryer. 3,018,026, 1–23–62, Cl. 223—91.

Binkley, William J. and C.T., and R. V. Packer; said Packer assor. to said W. J. and C. T. Binkley. Stove for use outdoors. 3,025,850, 3–20–62, Cl. 126—43.

Binkowski, Andrew. Weedless hook shirt. 3,060,620, 10–30–62, Cl. 43—42.24.

Binks, Melvin: *See*—
Beck, Joseph E., and Binks. 3,044,778.

Binni, Armand P. Dispenser for toilet-tank combination. 3,067,457, 10–30–62, Cl. 4—228.

Binning, Robert C., J. F. Jennings, and E. C. Martin, to Standard Oil Co. Process for removing water from organic chemicals. 3,035,060, 5–15–62, Cl. 260—290.

Binning, Robert C., and M. Z. Woskow, to Standard Oil Co. Hydrocarbon process utilizing a platinum-thiocyanate-alumina catalyst. 3,042,197, 7–3–62, Cl. 208—143.

Binnix, Donald B. Control for pneumatic stratification separator. 3,065,853, 11–27–62, Cl. 209—468.

Binnix, Donald B. Method and apparatus for pneumatic stratification. 3,066,800, 12–4–62, Cl. 209—475.

Binns, Jack N.: *See*—
Engelmann, Richard H. 3,019,640.

Binns, Jack N. Contour roll-turning lathe. 3,022,690, 2–27–62, Cl. 82—2.

Binns, Jack N. Tool unit. 3,063,132, 11–13–62, Cl. 29—98.

Binns, Robert: *See*—
Koch, Charles H., Jr., and Binns. 3,039,838.

Biondo, Frank P., to General Motors Corp. Combined door handle and pull-to for vehicle door. 3,020,076, 2–6–62, Cl. 292—336.3.

Bio-Physical Research, Inc.: *See*—
Gran, Harry R. 3,048,171.

Biorex Laboratories Ltd.: *See*—
Baxendale, Lily, and Gottfried. 3,070,624.
Gottfried, Siegfried, and Baxendale. 3,066,072.
Gottfried, Siegfried, and Baxendale. 3,070,623.

Biorge, Alfred I., to General Time Corp. Twelve hour scatter corrective mechanism for electric clock systems. 3,048,964, 8–14–62, Cl. 58—24.

Bioscillator, Inc.: *See*—
Forthun, Stanley A. 3,030,950.

Birbach, Lars E.: *See*—
Toulmin, Harry A., Jr. 3,049,736.

Birch Brothers, Inc.: *See*—
Birch, Clifford W., Jr. 3,049,311.
Birch, Clifford W., Jr., and Briggs. 3,047,248.

Birch, Clifford W., Jr., to Birch Brothers, Inc. Apparatus for web winding. 3,049,311, 8–14–62, Cl. 242—56.

Birch, Clifford W., Jr., and R. Briggs, to Birch Brothers, Inc. Automatic cut-off web winder. 3,047,248, 7–31–62, Cl. 242—56.

Birch and Gattone, Inc.: *See*—
Gattone, Daniel H. 3,060,927.

Birch, George C. R., to A.R.I.C. Ltd. Switch apparatus responsive to liquid flow. 3,028,463, 4–3–62, Cl. 200—81.9.

Birch, Herbert M., and D. H. Gattone. Means for administering pressurized medicaments, gases, combination thereof and liquids into body cavities. 3,024,787, 3–13–62, Cl. 128—203.

Birch, Raymond E.: *See*—
McCreight, Donald O., and Birch. 3,024,122.

Birch, Robert A. Combination tooth brush and gum massager. 3,067,447, 12–11–62, Cl. 15—167.

Birchall, Sylvia A. Buoyant garment. 3,050,752, 8–28–62, Cl. 9—334.

Bird, Charles A. Portable trash collecting devices. 3,017,-653, 1–23–62, Cl. 15—257.8.

Bird, Clarence A., Jr., to Whirlpool Corp. Automatic ice body makers. 3,055,190, 9–25–62, Cl. 62—353.

Bird Electronic Corp.: *See*—
Bird, James R., and Stevens. 3,027,514.
Bird, James R., and Stevens. 3,054,074.
Calderhead, Henry J. 3,065,434.
Waterfield, Clayton F., and Calderhead. 3,022,482.
Bird, Forrest M., and H. L. Pohndorf. Fluid control device. 3,068,856, 12–18–62, Cl. 128—29.
Bird, George R., and M. Parrish, Jr., to Polaroid Corp. Processes for preparing light polarizing materials. 3,046,839, 7–31–62, Cl. 88—65.
Bird, James R., and H. E. Stevens, to Bird Electronic Corp. Electrical wave indicator for high frequency lines. 3,027,-514, 3–27–62, Cl. 324—95.
Bird, James R., and H. E. Stevens, to Bird Electronics Corp. Termination device with removable center conductor. 3,054,074, 9–11–62, Cl. 333—22.
Bird, John W., Jr.: *See*—
Hall, Richard H., and Bird. 3,015,305.
Bird, Joseph E., to North American Aviation, Inc. Liquid level sensor. 3,065,354, 11–20–62, Cl. 250—218.
Bird, Joseph F.: *See*—
De Corte, Michael A., and Bird. 3,022,631.
Bird, Lester F., to Engelhard Hanovia, Inc. Communication system employing a high intensity arc modulated light source. 3,050,630, 8–21–62, Cl. 250—199.
Bird Machine Co.: *See*—
Cannon, Madison M. 3,029,951.
Nelson, George L. 3,053,391.
Bird, Paul G.: *See*—
Channabasappa, Kenkere C., and Bird. 3,036,305.
Bird, Raymond, and J. R. Cartwright, to International Computers and Tabulators Ltd. Data storage systems. 3,063,-042, 11–6–62, Cl. 340—174.1.
Bird & Son, Inc.: *See*—
Crawford, Earl A. 3,026,796.
Jackson, James W., Jr. 3,032,928.
Bird, Vincent J. Cap for electrical plug connections. 3,059,-209, 10–16–62, Cl. 339—75.
Bird, Walter W., to Birdair Structures, Inc. Air supported structures. 3,024,796, 3–13–62, Cl. 135—1.
Bird, Walter W., to Birdair Structures, Inc. Air inflated fabric structures. 3,059,655, 10–23–62, Cl. 135—1.
Bird, William H., to Johnson and Johnson. Elastic surgical stocking. 3,064,456, 11–20–62, Cl. 66—178.
Birdair Structures, Inc.: *See*—
Bird, Walter W. 3,024,796.
Bird, Walter W. 3,059,655.
Birdsall, Charles K., and G. R. Brewer, to Hughes Aircraft Co. Electron discharge device. 3,068,377, 12–11–62, Cl. 315—3.6.
Birdsall, Clarence E. Hydraulic suction head for cleaning water reservoirs. 3,039,122, 6–19–62, Cl. 15—1.7.
Birdsboro Corp.: *See*—
Peterson, Edward C. 3,058,375.
Peterson, Edward C., and Undegrave. 3,052,935.
Peterson, Edward C. 3,051,293.
Birdwell, James A., to Texas Instruments Inc. Phase sensitive detector. 3,065,427, 11–20–62, Cl. 328—133.
Bireley, Frank W., and H. A. Foss, to Brown Citrus Machinery Corp. Fruit juice extractor. 3,017,821, 1–23–62, Cl. 100—97.
Birfield Engineering Ltd.: *See*—
Bals, Edward. 3,037,705.
Bals, Edward J. 3,063,644.
Bastow, Donald, and Freeman. 3,062,025.
Callaghan, Albert E. 3,019,151.
Callaghan, Albert E. 3,037,248.
Cooper, Raymond J. 3,028,924.
Rabson, Edward J. 3,063,266.
Biringer, Paul P., to Ajax Magnethermic Corp. Single phase power supply system having a multiphase source. 3,040,-230, 6–19–62, Cl. 321—7.
Biringer, Paul P., to Ajax Magnethermic Corp. Self-balancing power supply system having a single phase output energized by a multiphase source. 3,040,231, 6–19–62, Cl. 321—7.
Biringer, Paul P. Method and system for dual frequency heating having a single frequency power source. 3,057,-985, 10–9–62, Cl. 219—10.41.
Biris, John. Jr. Floor panel fastening construction. 3,017,-673, 1–23–62, Cl. 20—6.
Biritz, Laszlo F., to F. D. Kolben. Timer device and method for determination. 3,018,611, 1–30–62, Cl. 58—1.
Biritz, Laszlo F., to Houston Chemical Corp. Making tetraethyl lead. 3,048,611, 8–7–62, Cl. 260—437.
Biritz, Laszlo F., to Houston Chemical Corp. Preparing tetraethyl lead. 3,057,898, 10–9–62, Cl. 260—437.
Birk, Christopher J.: *See*—
Fink, Marvin J., and Birk. 3,017,631.
Birkenbach, Eugene J.: *See*—
Morkoski, James, and Birkenbach. 3,040,819.
Birkenbach, Eugene J., B. E. Brown, T. Vendl, and G. J. Pfeiffer, Sr., to International Harvester Co. Peg harrow-welded tooth bar. 3,049,183, 8–14–62, Cl. 172—691.
Birkenbeul, Robert M.: *See*—
Welbaum, Donald D., and Birkenbeul. 3,019,683.
Birkenbeul, Robert M., and R. R. Blakley, to Delta Industries Inc. Punch and die set. 3,032,348, 5–1–62, Cl. 279—78.
Birkenes, Bernhard, to Motorola, Inc. Hybrid radio receiver. 3,017,507, 1–16–62, Cl. 250—20.
Birkenmeyer, Robert D.: *See*—
Magerlein, Barney J., Birkenmeyer, and Kagan. 3,016,392.
Magerlein, Barney J., Birkenmeyer, and Kagan. 3,068,-251.
Strube, Richard E., Birkenmeyer, and Kagan. 3,052,709.
Birkenwald, Inc.: *See*—
Jacobs, Lester G. 3,021,691.
Birkin, Bernard G., to BTR Industries Ltd. Rollers for pickling baths. 3,042,995, 7–10–62, Cl. 29—116.
Birkness, Harald A.: *See*—
Dravnieks, Andrew, Troscinski, and Birkness. 3,056,664.
Birko Chemical Corp.: *See*—
Smith, Ward H. 3,025,166.
Birkwel Research and Design Inc.: *See*—
Welbaum, Donald D., and Birkenbeul. 3,019,683.
Birmann, Rudolph. Explosion gas turbines. 3,018,623, 1–30–62, Cl. 60—39.36.
Birmann, Rudolph, to De Laval Steam Turbine Co. Turbine blading. 3,032,315, 5–1–62, Cl. 253—55.
Birmann, Rudolph. Turbocharger for internal combustion engines. 3,059,415, 10–23–62, Cl. 60—13.
Birmann, Rudolph, to De Laval Steam Turbine Inc. Turbocharger for internal combustion engines. 3,068,638, 12–18–62, Cl. 60—13.
Birmann, Rudolph. Impeller blading for centrifugal compressors. 3,069,072, 12–18–62, Cl. 230—127.
Birmingham Belting Co. Ltd.: *See*—
Jeffrey, Winstone E. P., and Stephens. 3,019,827.
Birmingham, Donald J., R. E. Montijo, and J. P. Reid, to Radio Corp. of America. Verification of magnetic recording. 3,056,950, 10–2–62, Cl. 340—174.1.
Birmingham Sound Reproducers Ltd.: *See*—
Guest, Lawrence V. 3,034,795.
Guest, Lawrence V. 3,049,354.
Birnbach, Richard R., and E. Millner. Utensil. 3,024,342, 3–6–62, Cl. 219—21.
Birnbaum, C., Ltd.: *See*—
Birnbaum, Charles N. 3,048,312.
Birnbaum, Charles N. 3,050,221.
Birnbaum, Charles N., to C. Birnbaum Ltd. Trousers hanger. 3,048,312, 8–7–62, Cl. 223—96.
Birnbaum, Charles N., to C. Birnbaum, Ltd. Garment hanger. 3,050,221, 8–21–62, Cl. 223—91.
Birnie, Bruce A., to Columbia Broadcasting System, Inc. Transconductance measuring apparatus. 3,050,677, 8–21–62, Cl. 324—26.
Biro Mfg. Co., The: *See*—
Biro, Vincent G. 3,035,622.
Biro, Vincent G., to The Biro Mfg. Co. Compound meat chopper. 3,035,622, 5–22–62, Cl. 146—182.
Birr, Louis G.: *See*—
Du Bois, Edgar H., Mazzio, and Birr. 3,055,222.
Birrer, Walter F.: *See*—
Hasler, Walter, and Birrer. 3,058,076.
Birsten, Oscar G.: *See*—
Boyle, Richard J., Birsten, and Mosby. 3,047,575.
Birt, David R. to North American Philips Co., Inc. Transistor circuit for applying sawtooth currents to an inductance. 3,070,727, 12–25–62, Cl. 315—27.
Birtcher Corp, The: *See*—
August, William S. 3,025,489.
August, William S. 3,047,649.
Finch, Horace T. 3,051,408.
Johnstone, Jack W. 3,036,394.
Birtwell, William C., to Davol Rubber Co. Catheter having built-in infusion means. 3,044,468, 7–17–62, Cl. 128—349.
Birtwell, William C., to Davol Rubber Co. Catheter. 3,053,-257, 9–11–62, Cl. 128—349.
Birum, Gail H.: *See*—
Dever, James L., and Birum. 3,059,017.
Heininger, Samuel A., and Birum. 3,018,304.
Heininger, Samuel A., and Birum. 3,022,344.
Heininger, Samuel A., and Birum. 3,044,927.
Heininger, Samuel A., and Birum. 3,050,545.
Heininger, Samuel A., and Birum. 3,063,894.
Heininger, Samuel A., and Birum. 3,064,036.
Heininger, Samuel A., and Birum. 3,065,127.
Miller, Lee A., and Birum. 3,059,014.
Sharp, Dexter B., and Birum. 3,027,395.
Birum, Gail H., to Monsanto Chemical Co. Phosphorus compounds. 3,020,306, 2–6–62, Cl. 260—461.
Birum, Gail H., to Monsanto Chemical Co. Organic phosphorus compounds. 3,042,698, 7–3–62, Cl. 260—461.
Birum, Gail H., to Monsanto Chemical Co. Organic phosphorus compounds. 3,042,699, 7–3–62, Cl. 260—461.
Birum, Gail H., to Monsanto Chemical Co. Organic phosphorus compounds. 3,042,700, 7–3–62, Cl. 260—461.
Birum, Gail H., to Monsanto Chemical Co. Organic phosphates. 3,042,701, 7–3–62, Cl. 260—461.
Birum, Gail H., to Monsanto Chemical Co. Organic phosphorus compounds. 3,042,702, 7–3–62, Cl. 260—461.
Birum, Gail H., to Monsanto Chemical Co. Toxic O,O-dimethyl- and O,O-diethyl S-pentachlorophenyl phosphorothioate. 3,046,296, 7–24–62. Cl. 260—461.
Birum, Gail H., to Monsanto Chemical Co. Phosphinylhydrocarbyloxy phosphoramidates and phosphorodiamidates. 3,049,545, 8–14–62, Cl. 260—293.4.
Birum, Gail H., to Monsanto Chemical Co. Insecticidal organic phosphorus compounds. 3,058,876, 10–16–62, Cl. 167—22.

Birum, Gail H., to Monsanto Chemical Co. Compositions comprising an organic polymer and an organo phosphorus compound. 3,058,941, 10–16–62, Cl. 260—30.6.

Birum, Gail H., and J. L. Dever, to Monsanto Chemical Co. Organic compounds of boron, nitrogen and phosphorus. 3,018,303, 1–23–62, Cl. 260—461.

Birum, Gail H., and J. L. Dever, to Monsanto Chemical Co. Organic phosphorus compounds. 3,029,271, 4–10–62, Cl. 260—461.

Birum, Gail H., and J. L. Dever, to Monsanto Chemical Co. Halophosphorus compounds and a method for making them. 3,031,489, 4–24–62, Cl. 260—461.

Birum, Gail H., and J. L. Dever, to Monsanto Chemical Co. Organic phosphorus compounds. 3,053,877, 9–11–62, Cl. 260—461.

Birum, Gail H., and J. L. Dever, to Monsanto Chemical Co. Process for preparing haloborinane compounds. 3,064,032, 11–13–62, Cl. 260—462.

Birum, Herbert L., Jr.: *See*—
Hammitt, Andrew B., and Birum. 3,052,330.

Birweico Ltd.: *See*—
Lewis, Richard G. 3,042,793.

Birx, Donald L., to Radio Condenser Co. Signal seek tuning means. 3,024,359, 3–6–62, Cl. 250—20.

Bisbing, Robert H., to South Chester Corp. Installation tool for fasteners. 3,032,771, 5–8–62, Cl. 1—348.

Bisbing, Robert H., and J. K. Barry, to South Chester Corp. Rivet with auxiliary head for engagement by setting tool. 3,030,849, 4–24–62, Cl. 85—40.

Biscardi, Charles T.: *See*—
Showers, Lewis M., Jr., and Biscardi. 3,027,927.

Bischoff, Anton, ½ to Gadget-Of-The-Month Club, Inc. Soap dish-engageable untility shelf. 3,052,362, 9–4–62, Cl. 211—86.

Bischoff, Charles A., to Societe des Etablissements Malicet & Blin. Multiple-spindle automatic lathes. 3,019,510, 2–6–62, Cl. 29—65.

Bischoff, Christian: *See*—
Rieche, Alfred, Schmitz, and Bischoff. 3,069,474.

Bischoff, Delmer F.: *See*—
McKinley, Algene H., and Underwood. 3,066,016.

Bischoff, Floyd W.: *See*—
McKinley, Algene H., and Underwood. 3,066,016.

Bischoff, Gustav H. Magnetic toy. 3,031,798, 5–1–62, Cl. 46—241.

Bischoff, Gustav H. Amusement device. 3,047,980, 8–7–62, Cl. 46—1.

Bishay, Adi M., to United States of America, Atomic Energy Commission. Glass composition and process of making. 3,052,637, 9–4–62, Cl. 252—301.4.

Bishman Mfg. Co.: *See*—
Bishman, Walter A. 3,032,094.
Llen, Harold G. 3,061,358.

Bishman, Walter A., to Bishman Mfg. Co. Tire changer machine improvements. 3,032,094, 5–1–62, Cl. 157—1.28.

Bishofberger, Carl J., to Minneapolis-Honeywell Regulator Co. Doorbell and porch light control. 3,017,623, 1–16–62, Cl. 340—322.

Bishoff, Robert W., and R. P. Cope, Jr., to Westinghouse Electric Corp. Addition agent for cyanide plating baths. 3,018,232, 1–23–62, Cl. 204—44.

Bishop, Alfred F., to The Bendix Corp. Control stick torque sensor to selectively effect autopilot and manual control of aircraft control surfaces. 3,043,539, 7–10–62, Cl. 244—76.

Bishop, Arthur E. Steer damper. 3,052,912, 9–11–62, Cl. 16—35.

Bishop, Arthur E. Variable ratio steering gear. 3,064,491, 11–20–62, Cl. 74—437.

Bishop, Arthur L., to Texaco Inc. Corrosion prevention. 3,068,170, 12–11–62, Cl. 208—235.

Bishop and Babcock Corp., The: *See*—
Garman, Donald F. 3,066,367.
Jaworski, Leonard S. 3,068,540.
Munse, Robert A. 3,060,535.
Munse, Robert A. 3,060,988.

Bishop, Basil T. G., to D. Napier & Son Ltd. Gas turbines. 3,062,050, 11–6–62, Cl. 73—347.

Bishop, Bruce E., to United States of America, Navy. Simultaneous PAM-PDM multiplexer. 3,037,169, 5–29–62, Cl. 328—104.

Bishop, Charles J. Remote control of pressurized spray can. 3,017,056, 1–16–62, Cl. 222—164.

Bishop, Charles J. Shrubbery sprayer. 3,069,095, 12–18–62, Cl. 239—280.

Bishop, Charles R., to C. R. and M. Bishop, as joint tenants with right of survivorship. Boat propulsion unit. 3,017,848, 1–23–62, Cl. 115—16.

Bishop, Dana L., to Owens-Corning Fiberglas Corp. Vinculum for porous alkaline earth metal silicate insulating materials. 3,042,536, 7–3–62, Cl. 106—104.

Bishop, Derek C.: *See*—
Cavalla, John F., and Bishop. 3,068,277.

Bishop, George M. Speaker system. 3,015,366, 1–2–62, Cl. 181—31.

Bishop, Harold P. Vacuum accessory for built-in portable or other vacuum apparatus for picking up liquids and other materials. 3,029,463, 4–17–62, Cl. 15—353.

Bishop, Henry D., to Aluminum Co. of America. Food package. 3,069,043, 12–18–62, Cl. 220—13.

Bishop, Homer L., to Bista, Inc. Method of making electrotype plates. 3,023,700, 3–6–62, Cl. 101—401.1.

Bishop, Homer L., to Bista, Inc. Method of manufacturing electrotype plates. 3,031,960, 5–1–62, Cl. 101—401.1.

Bishop, Homer L. Photographer's mat. 3,056,348, 10–2–62, Cl. 101—401.3.

Bishop, Homer L., to Bista Inc. Internal lock. 3,062,140, 11–6–62, Cl. 101—401.1.

Bishop, Homer S., to Kasle Steel Corp. Railway crossing guard block. 3,066,869, 12–4–62, Cl. 238—9.

Bishop, John, and P. B. F. Evans, to The United Kingdom Atomic Energy Authority. Mass spectrometers. 3,030,505, 4–17–62, Cl. 250—41.9.

Bishop, John W. H., to Bishop Spools, Inc. Inking ribbon spool. 3,042,180, 7–3–62, Cl. 197—175.

Bishop, Leon H.: *See*—
Gray, Lowell C., and Bishop. 3,070,730.

Bishop, Leonard J., to Mechanical Handling Systems, Inc. Powered roll conveyor structure. 3,035,683, 5–22–62, Cl. 198—127.

Bishop, Leonard J., to Mechanical Handling Systems, Inc. Conveyor track structure. 3,039,401, 6–19–62, Cl. 104—111.

Bishop, Leonard J., to Mechanical Handling Systems, Inc. Sorting system for post offices and the like. 3,049,218, 8–14–62, Cl. 198—188.

Bishop, Leonard J., to Mechanical Handling Systems, Inc. Sorting system for post offices and the like. 3,049,246, 8–14–62, Cl. 214—11.

Bishop, Leonard J., and E. S. Gottschalk, to Mechanical Handling Systems, Inc. Overhead truck pusher and dispatch system. Re. 25,288, 11–20–62, Cl. 104—172.

Bishop, Leonard J., and J. H. Barlow, to Mechanical Handling Systems, Inc. Switch structure for conveyor system. 3,019,741, 2–6–62, Cl. 104—104.

Bishop, Muriel: *See*—
Bishop, Charles R. 3,017,848.

Bishop, Ralph W., J. T. Wentworth, and L. L. Withrow, to General Motors Corp. Apparatus for disposal of carburetor and crankcase fumes. 3,050,376, 8–21–62, Cl. 23—288.

Bishop, Ray H. Extensible load or cargo bracing device. 3,049,328, 8–14–62, Cl. 248—354.

Bishop, Robert W., to Kent-Moore Organization, Inc. Refrigerant charging cylinder assembly. 3,052,101, 9–4–62, Cl. 62—468.

Bishop Spools, Inc.: *See*—
Bishop, John W. H. 3,042,180.

Bishop, William T., and L. J. Blaik. Automatic lights for vehicles. 3,068,378, 12–11–62, Cl. 315—77.

Bishoprie Products Co., The: *See*—
Bayer, August H. 3,047,190.

Bisio, Attilio L.: *See*—
Cain, William P., Makowski, and Bisio. 3,062,795.

Bisk, Michael: *See*—
Haigh, Leslie B., Bisk, and Tuttle. 3,048,662.

Biskup, John, S. Johnson, and P. C. Wetterau, to Congoleum-Nairn Inc. Decorative surface covering. 3,068,118, 12–11–62, Cl. 117—76.

Bisp, William E. Collapsible table. 3,026,160, 3–20–62, Cl. 311—84.

Bissell Inc.: *See*—
Anderson, Howard A. 3,037,229.
Osborn, Ralph C.: 3,029,461.

Bissell, Jacob C. Backflow preventor with vacuum breaker. 3,023,766, 3–6–62, Cl. 137—218.

Bissinger, William E., to Pittsburgh Plate Glass Co. Polychloroformates. 3,051,686, 8–28–62, Cl. 260—77.5.

Bissonette, Alfred J., and R. D. Lapp, to The Baldwin Piano Co. Renewable switch construction. 3,041,568, 6–26–62, Cl. 338—69.

Bista, Inc.: *See*—
Bishop, Homer L. 3,023,700.
Bishop, Homer L. 3,031,960.
Bishop, Homer L. 3,062,140.

Bisterfeld & Stolting: *See*—
Osenberg, Werner. 3,023,551.
Osenberg, Werner. 3,026,655.

Biswell, Charles B., and C. N. Winnick, to E. I. du Pont de Nemours and Co. Thermally stable jet fuel compositions. 3,032,973, 5–8–62, Cl. 60—35.4.

Biszantz, Fred, and A. H. Ruth, to Hercules Galion Products, Inc. Tilting control for dump truck bodies. 3,034,831, 5–15–62, Cl. 298—21.

Bitterlich, Gordon M., to Thermal Research & Engineering Corp. Burner air directing means. 3,042,105, 7–3–62, Cl. 158—5.

Bitterx Inc.: *See*—
James, Ruby M., Jr. 3,070,496.

Bittler, Josef. Circular knitting machine. 3,068,674, 12–18–62, Cl. 66—54.

Bittman, Jess C.: *See*—
Nye, Maurice A., and Bittman. 3,064,798.
Nye, Maurice A., Bittman, and Trowbridge. 3,064,919.

Bittman, Jess C., to The Vaughn Machinery Co. Continuous dual take-up device. 3,064,912, 11–20–62, Cl. 242—25.

Bittmann, Eric E., to Burroughs Corp. Magnetic data store. 3,023,402, 2–27–62, Cl. 340—174.

Bittner, Charles C. Air vent device for steam radiators. 3,022,860, 2–27–62, Cl. 183—41.

Bittner, Ernst, and W. Gnass, to The Scholl Mfg. Co., Inc. Foot exerciser sandals. 3,063,457, 11–13–62, Cl. 128—615.

Bittner, John W.: *See*—
Midgette, Ernst L., Sarfaty, and Bittner. 3,063,548.

Bituminous Coal Research, Inc.: *See*—
Broadley, Peter R. 3,021,797.
Bitzer, Martin: *See*—
Oishei, John R., and Bitzer. 3,023,445.
Oishei, John R., Bitzer, and Scinta. 3,032,019.
Bitzer, Martin, to Trico Products Corp. Windshield cleaner. 3,029,841, 4–17–62, Cl. 137—620.
Bitzer, Martin, and A. R. D'Alba, to Trico Products Corp. Windshield wiper system. 3,017,651, 1–23–62, Cl. 15—250.12.
Bivans, Ernest W., to Research Corp. Data filtering system. 3,037,195, 5–29–62, Cl. 340—173.
Bivens, Norman A. Revolver loader. 3,057,103, 10–9–62, Cl. 42—89.
Bivens, Norman A. Cartridge case including an insert shelf. 3,066,791, 12–4–62, Cl. 206—3.
Bix Co.: *See*—
Bixby, Leon C. 3,044,755.
Bixby, Wallace E. and L. C. 3,022,058.
Bixby, Guy T., to Mine Safety Appliances Co. Helmet ear cup assembly. 3,026,524, 3–27–62, Cl. 2—6.
Bixby, Harold S., Sr. Shoe-polish kit. 3,025,556, 3–20–62, Cl. 15—258.
Bixby, Leo A., to Rockwell-Standard Corp. Axle outer end. 3,042,145, 7–3–62, Cl. 184—6.
Bixby, Leo A., to Rockwell-Standard Corp. Transfer case with brake and power take-off. 3,046,813, 7–31–62, Cl. 74—665
Bixby, Leon C.: *See*—
Bixby, Wallace E. and L. C. 3,022,058.
Bixby, Leon C., to Bix Co. Heat treating grid. 3,044,755, 7–17–62, Cl. 263—47.
Bixby, Wallace E. Screen. 3,037,630, 6–5–62, Cl. 209—393.
Bixby, Wallace E. and L. C., to Bix Co. Basket. 3,022,058, 2–20–62, Cl. 263—47.
Bixby, William H., to North Electric Co. Current supply apparatus. 3,040,233, 6–19–62, Cl. 321—19.
Bixler, Harley H., to General Electric Co. Method and apparatus for accreting molten material. 3,060,055, 10–23–62, Cl. 117—51.
Bjelke, Bertil F.: *See*—
Lunden, Olof B., Eftring, and Bjelke. 3,055,794.
Bjelland, John L.: *See*—
Schutt, Norman C., Flynn, and Bjelland. 3,068,748.
Bjerkan, Arthur J.: *See*—
Sorensen, Knud B., and Bjerkan. 3,022,754.
Sorensen, Knud B., and Bjerken. 3,023,718.
Sorensen, Knud B., and Bjerkan. 3,062,159.
Bjerkan Engineering Service, Inc.: *See*—
Bjerkan, Theodore J. 3,057,611.
Bjerkan, Theodore J., to Bjerkan Engineering Service, Inc. Burner-blower combination for grain dryers. 3,057,611, 10–9–62, Cl. 263—19.
Bjerklie, John W., and H. H. Cover, Jr., to Sunstrand Corp. Reaction chamber. 3,059,429, 10–23–62, Cl. 60—39.46.
Bjorck, Carl T. B. Electrically driven laundry mangle. 3,053,070, 9–11–62, Cl. 68—249.
Björk, Johan C. H.: *See*—
Nilsson, Nils E., Björk, and Rodnert. 3,045,067.
Bjork, John C. H.: *See*—
Nilsson, Nils E., Rodnert, and Bjork. 3,065,305.
Bjork, Paul E.: *See*—
McNair, Lyle W. Bjork, and Wuczkowski. 3,065,324.
Björkman, Anders E. G., to Billeruds Aktiebolag. Method for the rceovery of spent sulphite liquors. 3,057,770, 10–9–62, Cl. 162—36.
Björksten Research Laboratories, Inc.: *See*—
Cox, Robert P. 3,029,225.
Lappala, Risto P., and Nagler. 3,059,463.
Meyer, Earl A. 3,028,498.
Yaeger, Luther L., and Lappala. 3,023,099.
Björnson, Bengt P.: *See*—
Hagström, Nils A., and Björnson. 3,059,977.
Bjornson, Bjorn G. to Bell Telephone Laboratories, Inc. Optical pulse echo system. 3,053,134, 9–11–62, Cl. 88—1.
Blachly, Donald L., to John Oster Mfg. Co. Brush holder for electric motors. 3,032,672, 5–1–62, Cl. 310—239.
Blachly, Paul H. Raft structure. 3,045,263, 7–24–62, Cl. 9—1.
Blachly, Paul H. Air blower attachment for electric shaver. 3,057,061, 10–9–62, Cl. 30—34.
Black, Bernard E.: *See*—
Nellis, Charles N., Jr., Kegel, and Black. 3,041,046.
Black, Clarence D., to Consolidated Thermoplastics Co. Silk screen printing. 3,053,374, 9–11–62, Cl. 198—24.
Black-Clawson Co., The: *See*—
Baxter, Joseph, Jr. 3,051,233.
Jordan, Charles E., and Phelps. 3,049,313.
Black and Decker Mfg. Co., The: *See*—
Akerman, Nigel. 3,034,302.
Atkinson, George E. 3,032,998.
Atkinson, George E. 3,033,252.
Atkinson, George E. 3,067,584.
Atkinson, George E., and Allen. 3,033,251.
Atkinson, George E., and March. 3,028,890.
Enders, Sherwood G. 3,033,312.
Marden, Tilghman B., Jr. 3,029,510.
McCarty, George W. 3,028,889.
McCarty, George W., and Stanley. 3,045,725.
Neuhardt, Melvin H. 3,020,430.
O'Brien, John J. 3,022,534.
Sauerbrey, Wilmer J. E. 3,067,597.
Sheps, Martin L., and Bowen. 3,037,740.
Short, Harold O. 3,034,006.
Black, Della I. Troll line floats. 3,067,539, 12–11–62, Cl. 43—43.13.
Black, Geoffrey D., to The British Oxygen Co. Ltd. Gas mixing valves. 3,034,533, 5–15–62, Cl. 137—637.
Black, Geoffrey D., to The British Oxygen Co. Ltd. Self-expandable bag. 3,063,620, 11–13–62, Cl. 230—43.
Black, Geoffrey D., to The British Oxygen Co. Ltd. Apparatus for controlling or assisting respiration. 3,068,857, 12–18–62, Cl. 128—29.
Black, H. R., Co.: *See*—
Black, Hugh R. 3,039,610.
Black, Harold S., and J. O. Edson, to Bell Telephone Laboratories, Inc. Pulse code modulation communication system. 3,020,350, 2–6–62, Cl. 179—15.
Black, Harold S., Jr.: *See*—
Ducharme, Joseph J., Black, and Leith. 3,052,545.
Black, Hugh R., to H. R. Black Co. Apparatus for removing solids and semi-solid materials from solutions. 3,039,-610, 6–19–62, Cl. 210—184.
Black, Isadore E., and S. V. Worth; said Worth assor. to said Black. Wiping cloth dispensing machine. 3,053,412, 9–11–62, Cl. 221—116.
Black, James A.: *See*—
Farwell, Harry R. 3,017,823.
Farwell, Harry R. 3,029,927.
Black, James A. Screen stencilling machine, reciprocating type. 3,046,880, 7–31–62, Cl. 101—123.
Black, James B.: *See*—
Bloch, Peter, and Black. 3,054,491.
Black, James F.: *See*—
Barr, Frank T., and Black. 3,050,454.
Black, James G., Jr.: *See*—
Rayburn, Charles C., and Black. 3,026,990.
Black, James J., to Trailmobile Inc. Leaf spring vehicle suspension system. 3,032,087, 2–20–62, Cl. 280—104.5.
Black, James J., to Trailmobile Inc. Roof bow fitting for rack body. 3,022,106, 2–20–62, Cl. 296—29.
Black, James J., to Trailmobile Inc. Apparatus for positioning cargo bodies. 3,028,024, 4–3–62, Cl. 214—38.
Black, James J., to Trailmobile, Inc. Landing gear clamping device. 3,046,910, 7–31–62, Cl. 105—368.
Black, James J., to Trailmobile Inc. Dumping mechanism for vehicles. 3,055,710, 9–25–62, Cl. 298—17.5.
Black, James M.: *See*—
Burkhart, Reginald K., Vogel, and Black. 3,039,147.
Black, John F. Radiator cap testing device accumulator. 3,022,658, 2–27–62, Cl. 73—40.
Black, John W.: *See*—
Kumm, Emerson L., and Black. 3,025,036.
Black, John W., to Pemco Wheel Co. Mechanical device. 3,022,535, 2–27–62, Cl. 16—37.
Black, Joseph J.: *See*—
Bocsay, Witold R., and Black. 3,052,512.
Black, Judd H., and H. Lyon, to Consolidated Vacuum Corp. Pressure control system for shock testing machine. 3,064,-464, 11–20–62, Cl. 73—12.
Black, Lloyd V., to Pittsburgh Plate Glass Co. Apparatus for bending sheet glass. 3,068,672, 12–18–62, Cl. 65—268.
Black, Maurice, and R. Jaenichen. Joint prosthesis. 3,053,-251, 9–11–62, Cl. 128—92.
Black, Otis D.: *See*—
Katz, George, and Black. 3,060,062.
Black Products Co.: *See*—
Lau, Erwin M. 3,062,307.
Black, Richard G., to Western Electric Co., Inc. Methods of testing moldable materials. 3,037,371, 6–5–62, Cl. 73—15.4.
Black, Robert H., and C. N. Drevalas, to Western Electric Co., Inc. Apparatus for advancing an irregular article of indefinite length. 3,061,163, 10–30–62, Cl. 226—167.
Black, Robert L., and S. E. Thorson, to General Motors Corp. Transmission. 3,041,891, 7–3–62, Cl. 74—677.
Black, Robert L., Jr., to Parks-Cramer Co. Collapsible nozzle for textile suction cleaner. 3,036,325, 5–29–62, Cl. 15—312.
Black, Robert L., Jr., to Parks-Cramer Co. Traveling section cleaner with auxiliary air inlet. 3,038,191, 6–12–62, Cl. 15—312.
Black, Robert L., Jr., to Parks-Cramer Co. Textile suction cleaning method and apparatus having a waste collection system. 3,046,162, 7–24–62, Cl. 134—10.
Black, Robert L., Jr., to Parke-Cramer Co. Traveling cleaning apparatus. 3,055,038, 9–25–62, Cl. 15—312.
Black, Robert L., Jr., to Parks-Cramer Co. Tape cutter for textile suction cleaner. 3,060,483, 10–30–62, Cl. 15—312.
Black, Robert L., Jr., to Parks-Cramer Co. Filter cleaning system for textile traveling suction cleaner. 3,063,874, 11–13–62, Cl. 134—21.
Black, Rodrick E.: *See*—
Poletika, Nicholas V., and Black, 3,042,977.
Black, Sivalls & Bryson, Inc.: *See*—
Barra, Frank J., Chaple, and McMinn. 3,041,876.
Halsell, Charles M., and Goodwin. 3,026,706.
Lynch, John P., Osborn, and Hessler. 3,042,560.
Root, Phillip O., and Chaple. 3,030,754.
Schad, Charles A. 3,070,303.
Worley, Marvin S. 3,069,829.
Black, Theodore R., Sr.: *See*—
Larsh, Everett P., Black, and Coppock. 3,034,479.
Black, Warren R., and B. W. Henrikson, to American Seating Co. Easy chair. 3,039,821, 6–19–62, Cl. 297—343.

Black, William B. : *See*—
Clark, Howard G., and Black. 3,069,392.
Black, William B., to The Chemstrand Corp. Composition comprising polypyrrolidone polymer dissolved in ferric chloride solution and process for preparing same. 3,033,810, 5–8–62, Cl. 260—29.2.
Black, William B., to Monsanto Chemical Co. Composition consisting of polypyrrolidone and a chlorinated phenol and process for preparing same. 3,042,647, 7–3–62, Cl. 260—33.4.
Black, William B., to Monsanto Chemical Co. Solution of polypyrrolidone in aqueous formic acid and method of preparing same. 3,060,141, 10–23–62, Cl. 260—29.2.
Black, William S. : *See*—
Magos, John P., Bredtschneider, Cotterman, Black, and Rodda. 3,053,554.
Black, William T., to Union Carbide Corp. Sunburn preventive compositions. 3,068,152, 12–11–62, Cl. 167—90.
Blackburn Aircraft Ltd. : *See*—
Bradbury, Charles. 3,038,684.
Clark, Frank M. 3,032,302.
Gadd, Raymond C. S. 3,032,300.
Blackburn, Alan B., to General Motors Corp. Air driven turbine. 3,037,559, 6–5–62, Cl. 170—68.
Blackburn, Alan B., to General Motors Corp. Air driven turbine. 3,063,503, 11–13–62, Cl. 170—68.
Blackburn, Alan B., to General Motors Corp. Voltage regulator. 3,068,393, 12–11–62, Cl. 322—28.
Blackburn, Edward M. Wind operated amusement device. 3,046,693, 7–31–62, Cl. 46—53.
Blackburn, Luther A. Deep well pump jack counterbalance control means. 3,018,865, 1–30–62, Cl. 192—116.5.
Blackburn, Walter L. Opposed piston type engine. 3,032,-021, 5–1–62, Cl. 123—51.
Blacker, William H. Tray to serve and hold food. 3,057,510, 10–9–62, Cl. 220—97.
Blackerby, Comer H. Slide rule. 3,019,973, 2–6–62, Cl. 235—70.
Blackett, James C., to Minneapolis-Honeywell Regulator Co. Time delay and abnormal operating condition reset circuit. 3,050,254, 8–21–62, Cl. 236—1.
Blackford, Neal H. : *See*—
McRoberts, Guy B., and Blackford. 3,047,892.
Blackford, Willis D. : *See*—
Reed, Nelson A., and Blackford. 3,032,205.
Blackham, William R. : *See*—
Mobley, Paul R., and Blackham. 3,053,652.
Blackhawk Co. : *See*—
Nelson, Permil N. 3,056,377.
Nelson, Permil N. 3,062,501.
Blackhawk Industries : *See*—
Rose, Kenneth D. 3,016,220.
Blacklifter Corp. : *See*—
Lloyd, Jim. 3,057,651.
Blackman, Calvin C., to L. Wilson. Open coil supporting turntable. 3,015,455, 1–2–62, Cl. 242—78.6.
Blackman, Calvin C., and R. J. Beemer, to L. Wilson. Coil stabilizer. 3,056,594, 10–2–62, Cl. 263—47.
Blackman, John W., and D. C. Smith, to Kimble Glass Co. Method and apparatus for calibrating scientific glassware. 3,026,705, 3–27–62, Cl. 73—1.
Blackman, Peter, and J. P. Conlere, to Arnold Hoffman & Co. Urea-formaldehyde resins plasticized with an imidazoline derivative. 3,053,788, 9–11–62, Cl. 260—30.2.
Blackman, Seymour N., and J. S. Ferenc, to Precision Medical Instrument, Inc. Hypodermic syringe and method of making same. 3,059,639, 10–23–62, Cl. 128—218.
Blackman, Seymour N., and H. C. Peltier, to American Technical Machinery Corp. Abrasive tool. 3,069,810, 12–25–62, Cl. 51—8.
Blackman, Vernon H. : *See*—
Ducati, Adriano C., and Blackman. 3,055,262.
Blackmer, Dwight W., to Ekco Products Co. Sliding door hanger assembly. 3,022,537, 2–27–62, Cl. 16—105.
Blackmer, Dwight W., to Ekco Products Co. Sliding door track assembly. 3,060,489, 10–30–62, Cl. 16—94.
Blackmer Pump Co. : *See*—
Brunson, Virgil A. 3,021,790.
Vanden Hoeck, Harold L. 3,029,834
Blackmer, Richard H., to General Electric Co. Fuel cell construction. 3,061,658, 10–30–62, Cl. 136—86.
Blackmond, Ronald C. : *See*—
Sueker, Keith H., and Blackmond. 3,023,356.
Blackmore, Harold I. Extrusion apparatus. 3,068,517, 12–18–62, Cl. 18—14.
Blackstone Corp. : *See*—
Douglas, Peyton W. 3,066,422.
Blackstrap Dry, Inc. : *See*—
Winn, Robert M. 3,033,684.
Blackstrom, Sven H. : *See*—
Ekstorp, Sven G. H., Blackstrom, and Kalling. 3,039,753.
Blackwell, Gerald B. Underwater air supply regulator. 3,054,414, 9–18–62, Cl. 137—63.
Blackwell, Jennings P. : *See*—
Doss, Richard C., and Blackwell. 3,019,081.
Blackwell, Jennings P., to Phillips Petroleum Co. Ammonium nitrate explosive and its production. 3,032,450, 5–1–62, Cl. 149—7.
Blackwell, Jennings P., to Phillips Petroleum Co. Stabilized nitric acid. 3,063,945, 11–13–62, Cl. 252—101.
Blackwood, Robert K., to Chas. Pfizer & Co., Inc. Process for preparing 6-methylene-5-oxytetracycline. 3,026,354, 3–20–62, Cl. 260—559.
Blackwood, Robert K., and K. J. Brunings, to Chas. Pfizer & Co., Inc. Mannich bases of tetracycline compounds and amino acids. 3,042,716, 7–3–62, Cl. 260—519.
Blackwood, Robert K., and C. R. Stephens, Jr., to Chas. Pfizer & Co., Inc. Alkanoic acid esters of 5-hydroxy-tetracycline and process for preparation. 3,047,617, 7–31–62, Cl. 260—490.
Blaes, Viggo A., and M. G. Scheider, to United States of America, Navy. Expandable tip float. 3,029,046, 4–10–62, Cl. 244—105.
Blaha, Eli W., and A. R. Sabol, to Standard Oil Co. Preparation of metal salts of phosphorus sulfide-hydrocarbon reaction products. 3,051,654, 8–28–62, Cl. 252—32.7.
Blaha, Emil, to Selas Corp. of America. Method of forming fused particles. 3,046,607, 7–31–62, Cl. 18—48.
Blaha, Emil, to Selas Corp. of America. Manufacture of uniform cellular ceramic articles. 3,056,184, 10–2–62, Cl. 25—156.
Blahnik, Carl J. Portable sewer flood control. 3,032,062, 5–1–62, Cl. 137—593.
Blaies, Herbert O., Jr., and C. F. Froberger, to General Motors Corp. Foundry process and molding mixture. 3,057,-026, 10–9–62, Cl. 22—193.
Blaik, Larry J. : *See*—
Bishop, William T., and Blaik. 3,068,378.
Blain, Albert, to Sperry Rand Corp. Electrical connector socket. 3,034,093, 5–8–62, Cl. 339—176.
Blain, Albert, to General Atronics Corp. Control device. 3,054,875, 9–18–62, Cl. 200—122.
Blain, Albert, to General Atronics Corp. Circuit pack assembly. 3,061,761, 10–30–62, Cl. 317—101.
Blain, Albert H. F. Welsh, L. D. Wilson, S. Meyer, and E. O. Roggenstein, to Sperry Rand Corp. Machine for recording and verifying magnetic tape data. 3,037,606, 6–5–62, Cl. 197—1.
Blain, Griffin C. Pipe layout apparatus and method. 3,038,-261, 6–12–62, Cl. 33—180.
Blain, Jim W., to Lockheed Aircraft Corp. Pneumatic socket device for vibration testing. 3,038,117, 6–5–62, Cl. 324—28.
Blain, Ralph W., and A. S. Kriener. Method of refrigerating urinals and apparatus therefor. 3,054,116, 9–18–62, Cl. 4—99.
Blain, Willard E. Hoists. 3,050,152, 8–21–62, Cl. 182—41.
Blair, David R., Jr., L. G. Bonner, H. W. Coleman, and J. R. Ryan, to Hercules Powder Co. Blasting assembly. 3,048,103, 8–7–62, Cl. 102—22.
Blair, David R., Jr., H. W. Coleman, and J. R. Ryan, to Hercules Powder Co. Blasting assembly. 3,064,573, 11–20–62, Cl. 102—24.
Blair, Earl R., and P. W. Hardy, to American Can Co. Method of inhibiting corrosion. 3,025,184, 3–13–62, Cl. 117—101.
Blair, Edgar A., J. J. Melchiore, and I. W. Mills, to Sun Oil Co. Liquid phase oxidation of alkyl naphthalenes to aldehydes and esters. 3,047,616, 7–31–62, Cl. 260—488.
Blair, Francis J. Stair structure. 3,021,928, 2–20–62, Cl. 189—43.
Blair, James E. : *See*—
Williams, Robert K., and Blair. 3,032,353.
Blair, John A., to Port Huron Sulphite & Paper Co. Transfer assembly. 3,037,795, 6–5–62, Cl. 282—22.
Blair, John R. : *See*—
Blair, Mary L. and J. R. 3,063,088.
Blair, John W. : *See*—
Price, Earl R., Blair, and Davis. 3,032,064.
Blair, John W., to The Bendix Corp. Three-position valve. 3,026,908, 3–27–62, Cl. 137—627.5.
Blair, John W., to The Bendix Corp. Method of forming a pressure seal. 3,059,330, 10–23–62, Cl. 29—525.
Blair, Johnny E. Parallel serving tray support. 3,031,086, 4–24–62, Cl. 211—133.
Blair Mfg. Co., Inc. : *See*—
Ryan, Kelly P. 3,016,879.
Blair, Mary L. and J. R. Multi-position hinge. 3,063,088, 11–13–62, Cl. 16—179.
Blair, Richard W., D. L. Johnson, and J. P. Morley, to Chicago Rawhide Mfg. Co. Polytetrafluoroethylene bushings and washers and method of forming same. 3,053,593, 9–11–62, Cl. 308—238.
Blair, Robert, to Anglo American Corp. of South Africa Ltd. Cable monitoring control for winding drums. 3,069,140, 12–18–62, Cl. 254—173.
Blair, Robert A. : *See*—
Wagnon, Hubert H., and Blair. 3,054,466.
Blair, Robert C., Jr. : *See*—
Moore, Arthur R., and Blair. 3,046,980.
Blais, Maurice E., W. Ruf, and J. E. Di Meglio, to St. Regis Paper Co. Apparatus for applying bale bags to a bale bag holder. 3,044,231, 7–17–62, Cl. 53—55.
Blais, Maurice E., and J. A. Leach, to St. Regis Paper Co. Packaging method and apparatus. 3,060,659, 10–30–62, Cl. 53—186.
Blaisdell, Arthur A. : *See*—
Lanciani, Daniel A., and Blaisdell. 3,019,399.
Blaisdell, Sidney B., to Edmonds Co. Cradle for planetary cabling machine. 3,026,062, 3–20–62, Cl. 242—129.6.
Blake, Arthur T. : *See*—
Weber, Harold, Brown, and Blake. 3,039,712.

Blake, Arthur T. Self-locking core chucks. 3,022,959, 2–27–62, Cl. 242—72.
Blake, Carl B., and L. F. Miller, to International Business Machines Corp. Magnetic lithographic inks. 3,054,751, 9–18–62, Cl. 252—62.5.
Blake, Charles T., and R. Vetsch, to The Warner & Swasey Co. Toggle actuated chuck. 3,018,115, 1–23–62, Cl. 279—118.
Blake, Edward J., and W. Morrison, to The British Petroleum Co. Ltd. Preparation of suspensions of water-soluble solids in oleaginous media. 3,065,173, 11–20–62, Cl. 252—18.
Blake, Edward J., and W. Morrison, to The British Petroleum Co. Ltd. Preparation of suspensions of water soluble solids in oleaginous media. 3,065,174, 11–20–62, Cl. 252—18.
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Blake, Howard C., to Admos, Inc. Article releasing mechanism for inclined supports. 3,066,828, 12–4–62, Cl. 221—295.
Blake, John C.: *See*—
Mahon, Edward F., and Blake. 3,068,048.
Blake, Leslie R., and J. R. Howells, to The British Thomson-Houston Co. Ltd. Temperature measuring apparatus. 3,025,705, 3–20–62, Cl. 73—343.
Blake, Nathan J.: *See*—
Rutherford, Harry T. 3,048,237.
Blake, Norman B.: *See*—
Cox, William H., and Blake. 3,023,966.
Blake, Norman B., and W. E. Holtkamp, Jr., to Sun Oil Co. Seismic recording and reproducing methods, apparatus and records. 3,063,053, 11–6–62, Cl. 346—74.
Blake, Richard F., to Specialties Development Corp. Voltage controlled oscillator with switching circuit coupled thereto. 3,048,793, 8–7–62, Cl. 331—75.
Blake, Richard F., to Specialties Development Corp. Condition responsive network insensitive to electrical leakage. 3,060,417, 10–23–62, Cl. 340—227.
Blake, Robert M., and E. T. Shea, to International Business Machines Corp. Electro-optical card reader. 3,065,356, 11–20–62, Cl. 250—219.
Blake, Samuel M., to Marks Development Corp. Steel rod shear and bender. 3,038,519, 6–12–62, Cl. 153—2.
Blake, William R. Water ski. 3,061,846, 11–6–62, Cl. 9—310.
Blake, William R. Water ski. 3,067,440, 12–11–62, Cl. 9—310.
Blake, William T. Hydraulic and resilient cushioned railway car draft assembly. 3,047,162, 7–31–62, Cl. 213—8.
Blakely, Thomas E. Conductive cable conduit termination. 3,057,951, 10–9–62, 174—78.
Blakeman, Raymond: *See*—
Kelly, Myron G. 3,047,835.
Blakemore, Samuel M. Purée and method of making same. 3,031,307, 4–24–62, Cl. 99—100.
Blakemore, Wilbur F.: *See*—
Sandberg, Axel W., and Blakemore. 3,028,621.
Blakeslee, A Eugene: *See*—
Elder, James T., Bieling, and Blakeslee. 3,060,134.
Blakeslee, Clinton A., and E. F. Dyson, to The Bristol Co. Process controllers. 3,023,282, 2–27–62, Cl. 200—38.
Blakeslee, G. S., & Co.: *See*—
Arnold, Howard N., Pokorny, and Pickett. 3,030,913.
Cumming, John. 3,017,014.
Pickett, Montgomery B. 3,042,547.
Blakeslee, Harry N., and R. W. Weed, to American Can Co. Spray coating apparatus. 3,044,441, 7–17–62, Cl. 118—317.
Blakewell, Roland F.: *See*—
Harer, Theodore M., Loveland, and Blakewell. 3,055,408.
Loveland, Malcolm W., and Blakewell. 3,058,618.
Loveland, Malcolm W., Harrer, and Blakewell. 3,058,616.
Blakistone, James T. Automobile signalling system. 3,037,187, 5–29–62, Cl. 340—61.
Blakley, Ronald R.: *See*—
Birkenbeul, Robert M., and Blakley. 3,032,348.
Blakney, Robert M., D. E. Bode, J. H. Neyhart, and E. R. Potok, to Xerox Corp., and International Business Machines Corp. Xerographic process. 3,041,167, 6–26–62, Cl. 96—1.
Blanc, Henri. Device for shifting normally stationary loads. 3,041,083, 6–26–62, Cl. 280—43.21.
Blanc, Roger. Chain conveyor. 3,045,808, 7–24–62, Cl. 198—177.
Blanch, Julian E.: *See*—
Toy, Arthur D. F., and Blanch. 3,034,862.
Blanchard, Allison M., and F. Finger. Necktie press. 3,060,603, 10–30–62, Cl. 38—71.
Blanchard, Francis G., to Hosmer Machine and Lumber Co., Inc. Machine for separating bark from wood chips. 3,070,318, 12–25–62, Cl. 241—14.
Blanchard, Hilary P. Electric automobile jack. 3,062,504, 11–6–62, Cl. 254—103.
Blanchard, Irene S. Hair protecting device for use with bathing caps. 3,052,888, 9–11–62, Cl. 2—68.
Blanchard, Irene S., and J. A. Bozio. Cap. 3,063,056, 11–13–62, Cl. 2—68.
Blanchard, Jean, and F. Douchet; said Blanchard assor. to Vehicules et Travaux VETRA. Device for the automatic starting of electric motors. 3,067,372, 12–4–62, Cl. 318—395.
Blanchard, Robert L. Collapsible tent construction. 3,058,480, 10–16–62, Cl. 135—1.
Blanchard, Robert W.: *See*—
Haigh, Leslie B., Herbig, and Blanchard. 3,051,790.
Blanchard, Robert W., to International Telephone and Telegraph Corp. Transistor phase shift oscillators. 3,045,191, 7–17–62, Cl. 331—108.
Blanchard, Robert W., and G. M. Nonnemacher, to International Telephone and Telegraph Corp. Automatic visual flight information display system. 3,029,304, 4–10–62, Cl. 178—3.
Blanchard, Roy L., and F. E. Miller, to Beaver Precision Products, Inc. Ball spline assembly. 3,045,457, 7–24–62, Cl. 64—23.7.
Blanchard, William J., Sr.: *See*—
Hill, Clifford W., Blanchard, and Fisken. 3,069,532.
Blanchet, Andre F. M., to Satam-Societe Anonyme Pour Tous Appareillages Mecaniques. Apparatus for measuring and dispensing liquids. 3,040,930, 6–26–62, Cl. 222—2.
Blanchet, Lucien. Removable insulating base for a metallic junction block for cables. 3,021,501, 2–13–62, Cl. 339—198.
Blanchet, Lucien. Label holder for marking and classifying electrical conductors and the like. 3,068,600, 12–18–62, Cl. 40—361.
Blanck, Joachim H. Stomach pump. 3,042,042, 7–3–62, Cl. 128—276.
Blanck, Roger D., and W. P. Saunders. Advertising display device. 3,023,526, 3–6–62, Cl. 40—219.
Blanco, Elias, to Daystrom, Inc. Apparatus for constructing wire-wound resistance elements. 3,034,542, 5–15–62, Cl. 140—71.5.
Blanco, Raymond E., and I. R. Higgins, to United States of America, Atomic Energy Commission. Recovery of aluminum from fission products. 3,065,044, 11–20–62, Cl. 23—14.5.
Blancs de Zinc de la Mediterranee Eug. Chabaury, Pierre Gindre & Cie, Societe des: *See*—
Gregoire, Ferdinand, and Ricard. 3,028,218.
Bland, David M., and R. H. Myers, to Ling-Temco-Vought, Inc. Hydraulic actuator with integrally housed valve. 3,060,801, 10–30–62, Cl. 121—46.5.
Bland, Marshall R. Grid for dirt trap sump. 3,048,277, 8–7–62, Cl. 210—523.
Bland, Reginald B. Transmission. 3,034,377, 5–15–62, Cl. 74—751.
Bland, Reginald B., and F. J. Ewing, to The Catacycle Co. Cooling with endothermic chemical reactions. 3,067,594, 12–11–62, Cl. 62—4.
Bland, Richard E., to United States of America, Navy. Bonding jig. 3,064,715, 11–20–62, Cl. 156—556.
Bland, William M., Jr.: *See*—
Fagot, Maxime A., Bland, and Heberlig. 3,038,175.
Blandin Paper Co.: *See*—
Reif, Myles W., Goelz, and Zigmund. 3,070,323.
Blanding, Wendell S., L. H. Foster, and P. F. Spremulli, to Corning Glass Works. Glass-metal uniting apparatus. 3,021,643, 2–20–62, Cl. 49—1.
Blanford, William F., and C. A. Dempsey, to Aeroplast Corp. Operating handle for aerosol containers. 3,045,878, 7–24–62, Cl. 222—473.
Blank, Benjamin, and J. F. Kerwin, to Smith, Kline & French Laboratories. Substituted trifluoromethylthio- and trifluoromethylsulfinylphenyl sulfonylureas. 3,021,368, 2–13–62, Cl. 260—553.
Blank, Charles E., to Ingersoll-Rand Co. Combined throttle and stop valve. 3,030,936, 4–24–62, Cl. 121—157.
Blank, Hans H., P. G. van Zanten, A. Kuiper, and F. H. R. Almer, to North American Philips Co., Inc. Method and device for applying electron-emissive coatings to coating-supports of indirectly heated thermionic cathodes of electric discharge tubes. 3,020,224, 2–6–62, Cl. 204—181.
Blank, Harvey M.: *See*—
Nuttall, Clifford J., Jr., Blank, and Kummen. 3,035,654.
Blank, John M., to General Electric Co. Preparation of ferromagnetic ferrite materials. 3,027,327, 3–27–62, Cl. 252—62.5.
Blank, John M., and H. J. Shafer, Jr., to Owens-Illinois Glass Co. Dual lehr loader. 3,027,990, 4–3–62, Cl. 198—30.
Blank, Laverne E., to Webster Electric Co. Intercommunication apparatus. 3,064,082, 11–13–62, Cl. 179—37.
Blank, Laverne E., to Webster Electric Co. Intercommunication apparatus. 3,064,083, 11–13–62, Cl. 179—38.
Blank, Lawrence, and P. J. Capella. Pressure-sensitive adhesive tape handle construction. 3,031,359, 4–24–62, Cl. 154—53.5.
Blank, Wilhelm, to Otto Hinze. Scaffolding element having relatively movable parts. 3,035,805, 5–22–62, Cl. 248—354.
Blankenship, Ernest B., and H. A. Bowers, to Research Products Mfg. Co. Incinerator toilet. 3,020,559, 2–13–62, Cl. 4—131.
Blankenship, Joseph K.: *See*—
Borutzke, Irvin W., and Blankenship. 3,049,289.
Blanks, Jimmie: *See*—
Stokes, Alvin R. 3,037,258.
Blanshine, Allison W.: *See*—
Wallin, Robert E., and Blanshine. 3,059,383.

Blanton, Jack W., to National Research Corp. Process for producing sodium zirconate from zirconium-containing ores. 3,029,132, 4–10–62, Cl. 23—18.
Blanton, James O.: *See*—
Hooker, Ralph J., Macaulay, and Blanton. 3,045,920.
Blanton, John W., to Bell Aerospace Corp. Servo valve with flow rate feedback. 3,054,388, 9–18–62, Cl. 121—41.
Blanton, John W., to Bell Aerospace Corp. Derivative load pressure feedback. 3,064,627, 11–20–62, Cl. 121—41.
Blanton, Melvin D. Slasher control. 3,059,309, 10–23–62, Cl. 28—28.
Blanz, Kurt, to Krauss & Reichert, Spezialmaschinenfabrik und Apparatebau. Machine for cutting patterns from webs of textile material. 3,021,996, 2–20–62, Cl. 234—37.
Blasberg, Lawrence A., H. D. Perry, and H. Saltzman, to Hughes Aircraft Co. Microwave device. 3,022,475, 2–20–62, Cl. 333—97.
Blasberg, Lawrence A., and R. A. Young, to Hughes Aircraft Co. Ultra-bandwidth miniature resonance absorption isolator. 3,041,554, 6–26–62, Cl. 333—24.
Blaschka, Friedrich: *See*—
Komenda, Erwin, and Blaschka. 3,031,224.
Porsche, Ferdinand, Komenda, and Blaschka. 3,047,331.
Blase, Karl. Motor-driven plant-protection apparatus. 3,040,-471, 6–26–62, Cl. 43—148.
Blase, Gunter, to Acla-Werke Aktiengesellschaft. Rail engaging slide guide for elevator cars. 3,032,377, 5–1–62, Cl. 308—3.
Blaser, Bruno, W. Stein, and H. Schirp, to Henkel & Cie, G.m.b.H. Process for the introduction of carboxyl groups into aromatic compounds. 3,023,216, 2–27–62, Cl. 260—295.5.
Blaser, Bruno, and K.-H. Worms, to Henkel & Cie. G.m.b.H. Salts of dehydration products of acids of phosphorus and process of making the same. 3,042,487, 7–3–62, Cl. 23—107.
Blaser, Bruno, B. Raecke, and H. Schirp, to Henkel & Cie G.m.b.H. Process for the production of aromatic polycarboxylic acids. 3,043,846, 7–10–62, Cl. 260—295.
Blaser, Bruno, and K. H. Worms, to Henkel & Cie., G.m.b.H. Process for the production of trifluoride of hypophosphorous acid and product thereof. 3,061,406, 10–30–62, Cl. 23—14.
Blaser, Bruno, H. Schirp, and W. Stein, to Henkel & Cie G.m.b.H. Process for the production of aromatic dicarboxylic acids. 3,064,041, 11–13–62, Cl. 260—515.
Blaser, Robert U., to The Babcock & Wilcox Co. Nuclear steam generator. 3,066,088, 11–27–62, Cl. 204—193.2.
Blasingame, Thomas W. Batch box locking device. 3,053,-573, 9–11–62, Cl. 298—8.
Blaskowski, Henry J.: *See*—
Argersinger, John L., and Blaskowski. 3,055,181.
Blaskowski, Henry J., to Combustion Engineering, Inc. Power plant installation. 3,053,049, 9–11–62, Cl. 60—49.
Blasnik, William: *See*—
Chow, Ho, and Blasnik. 3,042,318.
Blaszkowski, Henry. Joint and seal means. 3,064,320, 11–20–62, Cl. 20—56.4.
Blatchford, Brian G. Artificial limbs. 3,015,825, 1–9–62, Cl. 3—27.
Blatherwick, Delbert T., to W. A. Brown Mfg. Co. Projection copy camera assembly. 3,052,156, 9–4–62, Cl. 88—24.
Blatt, Leland F. Toggle clamp. 3,035,831, 5–22–62, Cl. 269—228.
Blatt, Leland F. Double acting tool and die cylinder. 3,045,-649, 7–24–62, Cl. 121—38.
Blattner, Elizabeth: *See*—
Blattner, Emil H. 3,015,525.
Blattner, Emil H. 3,042,224.
Blattner, Emil H., and Winther. 3,015,285.
Blattner, Emil H., deceased, by E. Blattner, executrix, to Symington Wayne Corp. Journal box lid. 3,015,525, 1–2–62, Cl. 308—47.
Blattner, Emil H., to Symington Wayne Corp. Railway truck snubber. 3,024,742, 3–13–62, Cl. 105—193.
Blattner, Emil H., deceased, by E. Blattner, executrix, to Symington Wayne Corp. Draft assembly. 3,042,224, 7–3–62, Cl. 213—41.
Blattner, Emil H., deceased (by E. Blattner, executrix), and H. Winther, to Symington Wayne Corp. Snubbed railway truck. 3,015,285, 1–2–62, Cl. 105—224.
Blatz, Philip S., to E. I. du Pont de Nemours and Co. Adhesion promotion of coated film. 3,057,753, 10–9–62, Cl. 117—121.
Blau, Herbert, and H. Mane. Foot bathing apparatus. 3,027,-568, 4–3–62, Cl. 4—182.
Blau, Robert E., to Link-Belt Co. Power transmission coupling. 3,066,780, 12–4–62, Cl. 192—58.
Blau, Theodore H., and R. E. Schaffer; said Blau assor. to said Schaffer. Spiral after-effect apparatus. 3,030,944, 4–24–62, Cl. 128—2.
Blaupunkt-Werke G.m.b.H.: *See*—
Backwinkel, Johannes, and Altmann. 3,049,587.
Blauvelt, Ralph C., and R. N. and G. H. Llster, to L. H. Peck, trustee. Frequency modulator having electromagnetical oscillator means. 3,026,488, 3–20–62, Cl. 332—26.
Blavier, Paul, to S. Spiegel. Sandal. 3,063,166, 11–13–62, Cl. 36—11.5.
Blaw-Knox Co.: *See*—
Beck, Frederick D. 3,062,626.
Krause, Frank R. 3,030,835.
Kullgren, Gilbert V. 3,067,462.
Ornitz, Nathaniel B. 3,037,756.
Ornitz, Martin N. 3,025,045.
Pottmeyer, Edward W. 3,059,889.
Rau, Robert J. 3,029,922.
Robinson, George L. 3,019,775.
Schuetz, James W. 3,021,736.
Siglow, Thaddeus A. 3,049,349.
Stenzel, Herbert E. 3,055,482.
Stenzel, Herbert E. 3,058,621.
Turner, Frank E. 3,063,409.
Blay, Benjamin, to The British Oxygen Co. Ltd. Means for the measurement of the flow of a gas. 3,034,352, 5–15–62, Cl. 73—202.
Blayden, James H., to Aluminum Co. of America. Gutter hanger. 3,022,029, 2–20–62, Cl. 248—48.2.
Blazek, Robert J., to Westinghouse Electric Corp. Electroluminescent device. 3,048,733, 8–7–62, Cl. 313—108.
Blazek, William J., and C. R. Barkley, to Lempco Products, Inc. Master pin for articulated tracks. 3,027,201, 3–27–62, Cl. 305—58.
Blazek, William J., and J. J. Strnad, to Lempco Products, Inc. Master link for crawler vehicle tracks. 3,032,376, 5–1–62, Cl. 305—58.
Blazey, Lawrence E., to Terra Industries, Inc. Charcoal burner means for cooking grills. 3,018,772, 1–30–62, Cl. 126—25.
Bleachers' Association Ltd.: *See*—
Wilde, John, and Norton. 3,044,286.
Bleam, Howard A., to Admiral Corp. Delay line circuits. 3,034,062, 5–8–62, Cl. 328—56.
Blease, George R. Arrow fletching jig. 3,028,158, 4–3–62, Cl. 269—28.
Blecker, Vincent C., F. A. Pearson, E. E. Weaver, and G. De Gryse, to The Gamewell Co. Plug-in electro-mechanical devices. 3,054,023, 9–11–62, Cl. 317—99.
Bleese, Kermit M. Treatment of primary tar acid compounds. 3,035,955, 5–22–62, Cl. 260—627.
Bleiberg, Carl. Plastic paperweight and card holder. 3,047,-970, 8–7–62, Cl. 40—10.
Bleikamp, Donald K.: *See*—
Van Camp, William M., and Bleikamp. 3,038,246.
Bleikamp, Donald K., and W. Y. Wenger, to Olin Mathieson Chemical Corp. Fabrication of hollow articles. 3,036,370, 5–29–62, Cl. 29—157.3.
Bleiler, Mandus. Reel mechanism. 3,041,045, 6–26–62, Cl. 254—185.
Bleistein, Walter J.: *See*—
Hightower, Frank W., and Bleistein. 3,033,710.
Blejers, Hugo G.: *See*—
Gorter, Evert W., Lotgering, and Blejers. 3,046,227.
Bleke, Ellis R., to General Electric Co. Brushing machine. 3,064,290, 11–20–62, Cl. 15—21.
Blenker, Herbert A., to Fairchild Engine & Airplane Corp. Hydrostatic steering arrangement. 3,065,700, 11–27–62, Cl. 103—11.
Bles, Marcus J. Combination pick and bucket attachment for excavating machines and the like. 3,027,027, 3–27–62, Cl. 214—140.
Blesi, Douglas F., and W. C. Schaeffner. Shotgun shell reloader. 3,060,788, 10–30–62, Cl. 86—27.
Blessey, Walter E., to Raymond International Inc. Precast piling and splice joint therefor. 3,046,749, 7–31–62, Cl. 61—56.
Blessing, Heinz W.: *See*—
De Benneville, Peter L., and Blessing. 3,064,035.
Bletz, Howard W., to Stevens Mfg. Co., Inc. Temperature control circuit. 3,059,085, 10–16–62, Cl. 219—20.
Bletzinger, John C.: *See*—
Greiner, Charles J., Johnson, and Bletzinger. 3,034,180.
Harwood, Kenneth J., Bletzinger, and Day. 3,029,817.
Bletzinger, John C., and W. U. Day, to Kimberly-Clark Corp. Non-woven wrapper for sanitary napkins. 3,035,577, 5–22–62, Cl. 128—290.
Bletzinger, John C., and W. U. Day, to Kimberly-Clark Corp. Manufacture of cellulosic products. 3,067,746, 12–11–62, Cl. 128—290.
Bletzinger, John C., and H. A. Whitehead, to Kimberly-Clark Corp. Cellulosic product. 3,068,867, 12–18–62, Cl. 128—285.
Blevans, Don W., to Orbit Valve Co. Gate valves. 3,039,734, 6–19–62, Cl. 251—200.
Blevins, Alonzo, Jr., and J. R. Carman; said Carman assor. to H. H. Nolan. Snowball forming and ejecting device. 3,059,273, 10–23–62, Cl. 18—1.
Blevins, Kenneth A., to Type-Write Desk Mfg. Co., Inc. Portable-sewing machine table. 3,034,841, 5–15–62, Cl. 311—12.
Blevins, William H.: *See*—
Ogburn, Ray E. and C. E., and Blevins. 3,029,868.
Blew, Robert D.: *See*—
Maloney, Bernard, Altherr, and Blew. 3,022,867.
Blewett, John P., to United States of America, Atomic Energy Commission. Resonator particle separator. 3,016,458, 1–9–62, Cl. 250—41.9.
Blicharz, Mitchell S.: *See*—
Fox, Sidney, Blicharz, and Origoni. 3,021,346.

Blicke, Frederick F. and J. H. Biel; said Biel assor. to Lakeside Laboratories, Inc., and said Blicke assor. to the Regents of The University of Michigan. 2-(aminoalkyl)-3-hydroxypiperidines. 3,051,715, 8–28–62, Cl. 260—294.7.

Bliek, Nico: *See*—
Van den Berge, Hendrik J., Bliek, Geleijnse, and van der Maat. 3,019,505.

Bliese, Dolores B. Combined shoe and purse. 3,018,570, 1–30–62, Cl. 36—1.

Bilgard, Erlin J., to Textron, Inc. Airplane engine suspension system. 3,056,569, 10–2–62, Cl. 248—5.

Blight, Dennis J.: *See*—
Sharp, Leonard W. D., and Blight. 3,048,684.

Bliley Electric Co.: *See*—
Wolfskill, John M. 3,025,479.
Wolfskill, John M. 3,037,263.
Wolfskill, John, and Tuznik. 3,046,423.

Blinchikoff, William: *See*—
Sauzeddе, Rene E., and Blinder. 3,031,053.

Blinder, William, to General Motors Corp. One-way clutch. 3,031,052, 4–24–62, Cl. 192—45.

Blinken, Robert J., and B. Howard, to Mite Corp. Identification data card reader. 3,069,496, 12–18–62, Cl. 178—17.

Blinston, James C., to General Dynamics Corp. Finder circuit. 3,061,817, 10–30–62, Cl. 340—168.

Blionas, Costas: *See*—
Aranyi, Janos A., Blionas, and Sarfaty. 3,042,189.

Blish, Matthew B. Flexible dispensing closure for rigid containers. 3,029,001, 4–10–62, Cl. 222—207.

Bliss, Alphonse J., to Ford Motor Co. Rear spring bushing. 3,042,394, 7–3–62, Cl. 267—54.

Bliss, Carl M., to General Motors Corp. Transmission control. 3,025,714, 3–20–62, Cl. 74—484.

Bliss, Earl M., to General Motors Corp. Coil spring removal tool. 3,067,500, 12–11–62, Cl. 29—227.

Bliss, Charles, to Foster Wheeler Corp. Gas distribution baffle. 3,016,624. 1–16–62, Cl. 34—57.

Bliss, Charles O. Utility bins. 3,053,397, 9–11–62, Cl. 211—126.

Bliss, E. W., Co.: *See*—
Crane, Edward V. 3,042,166.
Fehn, Frank P. 3,061,748.
Meyer, David. 3,015,449.
Meyer, David. 3,063,494.

Bliss, George N. Cracked egg detector. 3,067,605, 12–11–62, Cl. 73—12.

Bliss, Harvey N., and G. W. White, to Veeder-Root, Inc. Preselector mechanism for liquid dispensing apparatus. 3,037,666, 6–5–62, Cl. 222—16.

Bliss, Harvey N., and H. B. Vroom, to Veeder-Root Inc. Automatic numeral wheel aligning mechanism. 3,019,974, 2–6–62, Cl. 235—136.

Bliss, Warren H., to Radio Corp. of America. Apparatus for developing electrostatic printing. 3,040,704, 6–26–62, Cl. 118—637.

Blitchington, Frank H., Jr., to Western Electric Co., Inc. Protective systems. 3,024,388, 3–6–62, Cl. 317—31.

Bliven, Charles V., to Ford Motor Co. Hydropneumatic suspension. 3,041,062, 6–26–62, Cl. 267—64.

Bliven, Roger, F. L. Allen, Jr., and J. A. Budash, to Draper Corp. Bobbin and method of treating. 3,029,159, 4–10–62, Cl. 117—59.

Blix, Weltzin B., and J. R. Rushmer, to Nordberg Mfg. Co. Method of surfacing track. 3,034,452, 5–15–62, Cl. 104—2.

Blizard, John W. F., Jr.: *See*—
Douglas, Robert R., and Blizard. 3,069,927.

Blizard, Robert B., to Schlumberger Well Surveying Corp. Acoustic transducers. 3,053,338, 9–11–62, Cl. 181—.5.

Blizard, Robert B., and L. H. Gollwitzer, to Schlumberger Well Surveying Corp. Galvanometer systems. 3,023,362, 2–27–62, Cl. 324—125.

Bloch, Alan, to General Precision Inc. Airborne antenna positioning system. 3,044,056, 7–10–62, Cl. 343—7.4.

Bloch, Alfred, and R. A. Messing, to Ethicon, Inc. Activated enzyme compositions. 3,019,171, 1–30–62, Cl. 195—68.

Bloch, Erich. Skeleton rings for ornamental and display purposes. 3,050,890, 8–28–62. Cl. 41—12.

Bloch, Erich, and R. C. Paulsen, to International Business Machines Corp. Magnetic logical circuits. 3,070,706, 12–25–62, Cl. 307—88.

Bloch, Felix, to United States of America, Agriculture. Process for inducing shell splitting in pistachio nuts. 3,022,807, 2–27–62, Cl. 146—227.

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Bloch, Godfrey. Bulked continuous filament yarns. 3,061,998, 11–6–62, Cl. 57—140.

Bloch, Herman S., to Universal Oil Products Co. Polymerization of olefins. 3,017,400, 1–16–62, Cl. 260—94.9.

Bloch, Herman S., to Universal Oil Products Co. Hydroxymethylation of olefinic organic compounds. 3,022,340, 2–20–62, Cl. 260—491.

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Bloch, Herman S., to Universal Oil Products Co. Process for the removal of sludge from a liquid stream. 3,043,771, 7–10–62, Cl. 208—299.

Bloch, Herman S., to Universal Oil Products Co. Moving bed catalytic converter. 3,050,375, 8–21–62, Cl. 23—288.

Bloch, Herman S., to Universal Oil Products Co. Epoxidation of unsaturated compounds using solid silicophosphoric acid catalyst. 3,054,807, 9–18–62, Cl. 260—348.5.

Bloch, Herman S., to Universal Oil Products Co. Preparation of nitriles from unsaturated hydrocarbons and hydrogen cyanide. 3,062,860, 11–6–62, Cl. 260—465.3.

Bloch, Peter, and J. B. Black, to Twin Disc Clutch Co. Fluid actuated friction clutch. 3,054,491, 9–18–62, Cl. 192—87.

Bloch, Roy W., and T. E. Gress. Woven panel fence. 3,050,287, 8–21–62, Cl. 256—24.

Blocher, Thomas J., Jr., to Westinghouse Air Brake Co. Transistor control circuits. 3,046,470, 7–24–62, Cl. 323—22.

Blochlinger, Hans: *See*—
Tschumi, Otto, Kappeler, Blochlinger, and Zimmermann. 3,022,493.

Block, Aleck. Segment for rotary abrasive devices. 3,053,021, 9–11–62, Cl. 51—193.5.

Block, Aleck, to Merit Products, Inc. Surface finishing drum. 3,058,269, 10–16–62, Cl. 51—193.5.

Block & Anderson Ltd.: *See*—
Bonsch, Francois R. 3,035,517.
Matthews, Stephen. 3,033,108.

Block, Charles, and L. J. Mintz, to Lehigh Industries, Inc. Apparatus for sealing a loop of ribbon. 3,033,728, 5–8–62, Cl. 154—1.8.

Block, George J.: *See*—
Ehrenthal, Irving, and Block. 3,067,066.

Block, Harry R.: *See*—
Fish, Alvin K., and Block. 3,041,628.

Block, Kenwood F.: *See*—
Egan, John F., and Block. 3,038,437.

Block, Stanley H., to The Regents of the University of Minnesota. Sequential electronic motion timer and recorder. 3,024,413, 3–6–62, Cl. 324—68.

Block, Stefan: *See*—
Engelhardt, Heinz, Block, and Schlenz. 3,055,207.

Block, Stefan, and H. G. Schlenz, to Hartmann & Braun Aktiengesellschaft. Apparatus for the analysis of gases. 3,026,713, 3–27–62, Cl. 73—27.

Block, William S., to Vapor Heating Corp. Power failure detector. 3,044,051, 7–10–62, Cl. 340—248.

Block, Zenas, H. T. Hunter, and W. S. Hodges, to DCA Food Industries Inc. Method of treating comestibles. 3,044,180, 7–17–62, Cl. 34—20.

Blocker, James E.: *See*—
Atkins, Philip W., and Blocker. 3,052,368.

Blocker, Wade, and J. P. Greening, to Phillips Petroleum Co. Polynomial multiplier computer. 3,027,087, 3–27–62, Cl. 235—194.

Blockley, Eugene T., and W. E. Stone, to Eclipse Fuel Engineering Co. Ring burner with flame retention shield. 3,017,920, 1–23–62, Cl. 158—7.

Blocksom, Thomas E. Liquid dispensing attachment for lawn mowers. 3,021,983, 2–20–62, Cl. 222—191.

Blodgett, Edwin O., to Commercial Controls Corp. Data collecting system. 3,025,498, 3–13–62, Cl. 340—172.5.

Blodgett, Edwin O., to Commercial Controls Corp. Coded information translation system. 3,037,075, 5–29–62, Cl. 178—23.

Blodgett, Edwin O., and G. A. Denis, to Commercial Controls Corp. Selective data translating system. 3,025,941, 3–20–62, Cl. 197—20.

Blodgett, Edwin O., and H. F. Stiffler, to Commercial Controls Corp. Print ribbon feed mechanism. 3,037,448, 6–5–62, Cl. 101—336.

Blodgett, Leo S.: *See*—
Blodgett, Richard E. and L. S. 3,065,547.

Blodgett, Norman S.: *See*—
Cormier, Louis A. 3,047,058.
Ellis, John H. 3,027,141.
Jones, Charles H., Jr. 3,027,054.
Quercio, Frederick, Jr. 3,057,465

Blodgett, Norman S., to Riley Stoker Corp. Steam generating unit. 3,060,907, 10–30–62, Cl. 122—479.

Blodgett, Richard E. and L. S. Layout fixture for use in the graphic arts. 3,065,547, 11–27–62, Cl. 33—80.

Blodinger, Jack, to American Cyanamid Co. Germicidal detergent composition. 3,069,358, 12–18–62, Cl. 252—107.

Blodinger, Jack, to American Cyanamid Co. Germicidal detergent composition. 3,069,359, 12–18–62, Cl. 252—107.

Bloechl, Ludwig J., to General Railway Signal Co. Changeable indicators for display devices. 3,025,512, 3–13–62, Cl. 340—373.

Bloem, Jan, to North American Philips Co., Inc. Method of making semi-conductive material for use in semi-conductive devices. 3,047,380, 7–31–62, Cl. 75—84.

Bloembergen, Nicoiaas, to Schlumberger Well Surveying Corp. Quantummechanical counters. 3,070,698, 12–25–62, Cl. 250—83.3.

Bloembergen, Rudolf H., to Shell Oil Co. Hydrocarbon sweetening process. 3,053,757, 9–11–62, Cl. 208—205.

Blok, Lourens, to North American Philips Co., Inc. High-frequency furnace for inductive heating. 3,021,413, 2–13–62, Cl. 219—10.75.

Blokhuis, Gerrit. Device for the combined regulation of the temperature of an oil-burner. 3,049,170, 8–14–62, Cl. 158—28.

Blokland, Jan: *See*—
Beebe, Emmett R., and Blokland. 3,055,996.

Blomberg, Folke I., to Svenska Aeroplan Aktiebolaget. Method and means for the equalization of the idling operation of a multiple cylinder 2-stroke cycle internal combustion engine, preferably a carburetor engine. 3,043,286, 7–10–62, Cl. 123—124.

Blomberg, Folke I., to Svenska Aeroplan Aktiebolaget. Planetary differential mechanism. 3,057,226, 10–9–62, Cl. 74—713.

Blomgren, Oscar C. and O. C., Jr. Speed changing assembly for power takeoff shafts. 3,051,010, 8–28–62, Cl. 74—217.

Blomgren, Oscar C., Jr.: *See*—
Blomgren, Oscar C. and O. C., Jr. 3,051,010.

Blomquist, Arne M.: *See*—
Carbert, Ralph E., Blomquist, and Kennedy. 3,015,374.

Blomquist, Howard J. Method for purification of saline water. 3,066,096, 11–27–62, Cl. 210—59.

Blomquist, Uno O., to Svenska Maskinverken, Aktiebolaget. Steam boiler plant. 3,043,279, 7–10–62, Cl. 122—240.

Blomquist, Uno O. Steam generating and superheating units. 3,049,104, 8–14–62, Cl. 122—1.

Blomqvist, Ake H. P., and R. B. O. Hansson, to Bofors, Aktiebolaget. Follow-up installation for positioning a movable member. 3,041,518, 6–26–62, Cl. 318—448.

Blomstrom, Dale C., to E. I. du Pont de Nemours, and Co. Polymers containing recurring 1,2,4-oxadiazole rings. 3,044,994, 7–17–62, Cl. 260—78.

Blomstrom, Dale C., and B. C. McKusick, to E. I. du Pont de Nemours, and Co. 2-substituted-2,3-dihydro-5,6-dicyano-1,4-dithiins. 3,021,339, 2–13–62, Cl. 260—326.5.

Blonchek, Michael M.: *See*—
Burrows, Harry L. and Blonchek. 3,058,102.

Blonder, Howard. Tuck-in type box. 3,043,068, 7–10–62, Cl. 53—29.

Blonder, Howard, and R. B. Klamer, to Link Research Corp. Display package. 3,057,466, 10–9–62, Cl. 206—45.19.

Blonder, Isaac S., to Blonder-Tongue Electronics. Electrical clamp-and-connector. 3,016,510, 1–9–62, Cl. 339—97.

Blonder-Tongue Electronics: *See*—
Blonder, Isaac S. 3,016,510.
D'Agostini, Donato. 3,069,492.
Horowitz, Irving. 3,023,369.
Horowitz, Irving. 3,063,020.
Tongue, Ben H. 3,044,022.

Blood, Alden E., D. C. Hull, and H. J. Hagemeyer, Jr., to Eastman Kodak Co. Process for recovery of alkyl methacrylates from solutions thereof in corresponding alkyl isobutyrates. 3,062,872, 11–6–62, Cl. 260—486.

Blood, Charles A., Jr., and J. R. Fisher, to E. I. du Pont de Nemours and Co. Process for preparing coating composition containing a vinylidene chloride resin. 3,039,986, 6–19–62, Cl. 260—32.8.

Blood, Cyril T.: *See*—
Merton, Robert R., and Blood. 3,067,743.

Blood, Lewis H., to Expeller Press and Chemical Corp. Conveyor press. 3,045,586, 7–24–62, Cl. 100—154.

Blood, Raymond, to William Cotton Ltd. Straight bar knitting machines. 3,019,626, 2–6–62, Cl. 66—89.

Blood, Raymond M. to Wm. Cotton, Ltd. Straight bar knitting machines. 3,050,971, 8–28–62, Cl. 66—145.

Bloom, Aaron, and B. A. Kindred, to Sierra Engineering Co. Combination inhalator-exhalator valve with hose pull protection. 3,035,594, 5–22–62, Cl. 137—63.

Bloom, Albert, and D. E. Graham, to General Aniline & Film Corp. Process for reducing aromatic nitrogen compounds. 3,063,980, 11–13–62, Cl. 260—205.

Bloom, Arnold L., to Varian Associates. Atomic free precession methods and apparatus. 3,025,457, 3–13–62, Cl. 324—.5.

Bloom, Arnold L., to Varian Associates. Gyromagnetic magnetometer method and apparatus. 3,058,053, 10–9–62, Cl. 324—.5.

Bloom, Barry M. *See*—
Figdor, Sanford K., Pinson, and Bloom. 3,045,010.

Bloom, Barry M., and R. E. Carnahan, to Chas. Pfizer & Co. Inc. N-substituted amides of omega-hydrazino alkanoic acids. 3,040,061, 6–19–62, Cl. 260—347.3.

Bloom, Bernard, and B. Lev. Cap attachment. 3,027,565, 4–3–62, Cl. 2—195.

Bloom, Dolores F., to Aircushion Patents Corp. Method for relieving hydraulic pressure in oil recovery from wells. 3,019,839, 2–6–62, Cl. 166—43.

Bloom, Dolores F., and J. L. Dickmann, to Aircushion Patents Corp. Method and apparatus for sampling well fluids. 3,038,539, 6–12–62, Cl. 166—3.

Bloom Engineering Co., Inc.: *See*—
Bloom, Frederick S., and Rudin. 3,022,815.

Bloom, Frederick S. Internally cooled conveyor roll. 3,058,-731, 10–16–62, Cl. 263—6.

Bloom, Frederick S., and W. Rudin; said Rudin assor. to Bloom Engineering Co., Inc. Burner mechanism. 3,022,-815, 2–27–62, Cl. 158—109.

Bloom, Herbert J., to Sylvania Electric Products Inc. Article seating device. 3,051,329, 8–28–62, Cl. 214—1.

Bloom, Howard W., to Maico Electronics, Inc. Acoustical instruments. 3,038,038, 6–5–62, Cl. 179—107.

Bloom, Leonard: *See*—
Rey, Thomas J. 3,026,515.

Bloom, Leslie C., to Lubrilite Corp. Illuminating grease gun. 3,035,738, 5–22–62, Cl. 222—113.

Bloom, Martin S.: *See*—
Jackson, Kenneth, and Bloom. 3,049,488.

Bloom, Murray, to Hughes Aircraft Co. Unsaturated chloromolybdate esters and polymers. 3,052,658, 9–4–62, Cl. 260—80.

Bloom, Roy C., and F. A. Pomeroy, to Eastman Kodak Co. Photographic diffusion transfer process. 3,062,643, 11–6–62, Cl. 96—29.

Bloom, Sol, ½ to S. J. Baer. Process for molding covered rigid and semirigid bodies. 3,015,859, 1–9–62, Cl. 18—59.

Bloom, Stanley, and K. K. N. Chang, to Radio Corp. of America. Parametric amplifier with lower frequency pumping. 3,018,443, 1–23–62, Cl. 330—5.

Bloom, Quentin M.: *See*—
Buckholdt, Robert E., and Bloom. 3,015,478.

Bloomfield, Dennis G.: *See*—
Clark, Patrick A., Stubbs, and Bloomfield. 3,015,528.
Clark, Patrick A., Stubbs, and Bloomfield. 3,020,108.

Bloomfield, Peter R., to Microcell Ltd. Phosphorus containing compounds. 3,044,984, 7–17–62, Cl. 260—61.

Bloomquist, Evert V. and G. E. Machine for pulverizing frozen food. 3,037,540, 6–5–62, Cl. 146—123.

Bloomquist, Gerald E.: *See*—
Bloomquist, Evert V. and G. E. 3,037,540.

Bloomquist, Leonard A., and E. N. Marsh, to International Telephone and Telegraph Corp. Transistorized generator of telegraphing current. 3,056,931, 10–2–62, Cl. 331—111.

Bloomsburgh, Ralph A., to Philco Corp. Self shielding electron gun and cathode ray tube system including same. 3,020,434, 2–6–62, Cl. 313—76.

Bloor, Charles K.: *See*—
Robinson, Ernest B., and Bloor. 3,064,873.

Blose, Arthur O., to American Cyanamid Co. Rubber accelerator. 3,033,876, 5–8–62, Cl. 260—306.5.

Bloss, Albert G. Wheel truing apparatus for railroad vehicles. 3,044,368, 7–17–62, Cl. 90—16.

Blosser, Aaron D. Automatic poultry waterer. 3,063,417, 11–13–62, Cl. 119—79.

Blosser, Herbert G., and L. R. Allison, to Westinghouse Air Brake Co. Wheel slip and slide indicating circuit. 3,026,-507, 3–20–62, Cl. 340—271.

Bloudoff, Peter S. Valve mechanism for fluid operated downwell pumps. 3,050,038, 8–21–62, Cl. 121—123.

Blough, Henry K., to Colonial Hills Bowl, Inc. Pin setter table. 3,050,306, 8–21–62, Cl. 273—42.

Blough, Ronald S.: *See*—
Greenbank, James W., and Blough. 3,036,758.

Blough, Ronald S., to Fairfield Engineering and Mfg. Co. Livestock drinking cup. 3,043,267, 7–10–62, Cl. 119—75.

Blount, Luther O., to Controllable pitch propeller. 3,023,814, 3–6–62, Cl. 170—160.47.

Blount-Parker Corp.: *See*—
Parker, Robert E. 3,015,111.

Blout, Elkan R., to Polaroid Corp. Circular light polarizer. 3,053,147, 9–11–62, Cl. 88—65.

Blout, Elkan R., M. Green, H. G. Rogers, M. S. Simon, and R. B. Woodward, to Polaroid Corp. Novel photographic products, processes and compositions. 3,019,107, 1–30–62, Cl. 96—66.

Blout, Elkan R., and M. S. Simon, to Polaroid Corp. Anthraquinone type developers. 3,047,386, 7–31–62, Cl. 96—29.

Blow, Angus W., to General Dynamics Corp. Magnetic dial impulse transmitter. 3,061,687, 10–30–62, Cl. 179—90.

Blower Application Co.: *See*—
Panning, Martin H., and Curry. 3,068,891.
Panning, Martin H., and Curry. 3,068,892.

Blowers, Donald C.: *See*—
Labastie, Albert H., Wester, and Blowers. 3,049,882.

Bloyd, Judson E.: *See*—
Arnold, Le Roy R., Bloyd, and Carson. 3,051,238.

Blubaugh, Robert L., and D. L. Lindsey. Horizontal earth boring apparatus. 3,038,546, 6–12–62, Cl. 175—162.

Blucher, Ludwig: *See*—
Prohaska, Hans, Anschutz, and Blucher. 3,053,337.

Bluck, Raymond M., to Thompson Ramo Wooldridge Inc. Extrusion device. 3,021,003, 2–13–62, Cl. 207—2.

Bluck, Raymond M., to Thompson Ramo Wooldridge Inc. Cooled turbine blade. 3,066,910, 12–4–62, Cl. 253—39.15.

Blue, Edward B. Double rotation apparatus for molding of hollow articles from liquid plastic and the like. 3,016,573, 1–16–62, Cl. 18—26.

Blue, John, and L. N. Tangeman, to John Blue Co., Inc. Agricultural spraying vehicle. 3,033,301, 5–8–62, Cl. 180—26.

Blue, John, Co., Inc.: *See*—
Blue, John, and Tangeman. 3,033,301.
Johnston, Douglas. Re. 25,307.

Blue, Lloyd C. Wire rope tensioner. 3,044,723, 7–17–62, Cl. 242—47.09.

Blue, Robert D., N. P. Sweeny, and M. P. Neipert, to The Dow Chemical Co. Depolarized primary cell. 3,019,279, 1–30–62, Cl. 136—103.

Blueberry Equipment, Inc.: *See*—
McKibben, Horace E., and Jones. 3,023,565.

Bluestein, Allen C.: *See*—
Stanley, Robert A., and Bluestein. 3,060,261.

Bluestein, Allen C., and R. F. Grossman, to Anaconda Wire and Cable Co. Composition comprising polyethylene and quinhydrone dimeride, process for curing same and cured product. 3,036,982, 5–29–62, Cl. 260—41.

Bluestein, Ben A., to General Electric Co. Greases thickened with metal salts of carboxyalkylpolysiloxanes. 3,047,-497, 7–31–62, Cl. 252—28.

Bluestein, Ben A., to General Electric Co. Elastomer composition. 3,047,528, 7–31–62, Cl. 260—37.

Bluestein, Ben A., to General Electric Co. Preparation of carbalkoxyalkyl-containing organopolysiloxanes. 3,065,202, 11–20–62, Cl. 260—46.5.
Bluestein, Bernard R. : *See*—
Bachman, Gustave B., and Bluestein. 3,061,404.
Bluestone, Henry, to Diamond Alkali Co. Method of regulating plant growth. 3,020,143, 2–6–62, Cl. 71—2.5.
Bluestone, Henry, to Diamond Alkali Co. Polyunsaturated sulfides and sulfones and method of preparing same. 3,021,370, 2–13–62, Cl. 260—607.
Bluestone, Henry, to Diamond Alkali Co. Process for preparing halo-naphthoquinones. 3,066,153, 11–27–62, Cl. 260—396.
Bluestone, Henry, P. H. Schuldt, J. H. Wotiz, C. E. Entemann, and F. Huba, to Diamond Alkali Co. 2,4,5-trichlorophenyl-hydroxylamine. 3,037,058, 5–29–62, Cl. 260—578.
Blue Valley Machine & Mfg. Co. : *See*—
Johnson, Ernest E. 3,016,942.
Bluhm, Theodore : *See*—
Swarolsky, Walter, and Bluhm. 3,057,277.
Blum, Charles A. Wreath. 3,046,685, 7–31–62, Cl. 41—12.
Blum, Edmund D., and L. R. E. Hutchings, to The Pure Oil Co. Process for recovering alkaline earth metal sulfates in manufacturing alkaline earth metal sulfonates. 3,033,-649, 5–8–62, Cl. 23—122.
Blum, Heinz E. : *See*—
Diambra, Henry M., and Blum. 3,048,780.
Blum, Josef, to Ivan Sorvoll, Inc. Swinging bucket centrifuge. 3,028,075, 4–3–62, Cl. 233—26.
Blum, Julius, & Co., Inc. : *See*—
Thurnauer, William. 3,026,080.
Blum, Louis, to Blumcraft of Pittsburgh. Grille work. 3,024,882, 3–13–62, Cl. 189—82.
Blum, Murray S. : *See*—
Bornstein, Joseph, Blum, and Pratt. 3,021,358.
Blum, Peter, to Falstaff Brewing Corp. Brewing process. 3,048,459, 8–7–62, Cl. 99—51.
Blum, Robert D., to Borg-Warner Corp. Three-pipe air conditioning systems. 3,024,008, 3–6–62, Cl. 257—283.
Blumberg, Rex. H., and C. J. Kraus, to International Business Machines Corp. Low temperature current switch. 3,021,-434, 2–13–62, Cl. 307—88.5.
Blumcraft of Pittsburgh : *See*—
Blum, Louis. 3,024,882.
Blume, Alan F. : *See*—
Blume, Frank J. and A. F. 3,043,400.
Blume, Frank J. and A. F. Multiple station conveyor circuit. 3,043,460, 7–10–62, Cl. 187—3.
Blumenauer, Chester E. : *See*—
Moore, Ralph F., Blumenauer, and Lipski. 3,029,469.
Blumenfeld, Arthur : *See*—
Levy, Sidney E., Blumenfeld, and Sharp. 3,028,927.
Blumenfeld, Arthur C., and J. W. Gray, to General Precision, Inc. Sweep and flyback circuit. 3,039,063, 6–12–62, Cl. 331—4.
Blumenfeld, Sylvan. Portable cleaner and presser. 3,061,959, 11–6–62, Cl. 38—77.
Blumenthal, Edwin I., and F. A. Lopez, to Sperry Rand Corp. Card sensing device. 3,031,136, 4–24–62, Cl. 235—61.11.
Blumenthal, Edwin I., J. P. Eckert, Jr., and H. F. Welsh, to Sperry Rand Corp. Information translating apparatus. 3,056,947, 10–2–62, Cl. 340—172.5.
Blumenthal, Jack H., to Air Reduction Co., Inc. Reactions of alkali metal acetylides. 3,028,423, 4–3–62, Cl. 260—679.
Blumer, Hans, to Steiger A.G. Lithographie, Druckerei. Device for folding paper board blanks. 3,053,151, 9–11–62, Cl. 93—51.
Blumkin, Joseph J. Traction device. 3,063,489, 11–13–62, Cl. 152—213.
Blumlo, David. Scraping tool. 3,045,270, 7–24–62, Cl. 15—216.
Blunden, Donald J., to Whitehead & Kales Co. Vehicle tie-down structure. 3,038,740, 6–12–62, Cl. 280—179.
Blunt, George, and J. A. Bennett. Paper roll holder. 3,022,-957, 2–27–62, Cl. 242—55.2.
Blunt, Ray E., and D. I. David. Protective device for horned animals. 3,052,216, 9–4–62, Cl. 119—144.
Blustein, Abraham, to Brown Counter Co. Process of skiving and grooving counters. 3,046,582, 7–31–62, Cl. 12—146.
Blu Strike Blade Co. : *See*—
Smith, Joseph C. 3,070,260.
Bluth, John M., and J. L. Sellers. Reformation of metallic surfaces. 3,019,522, 2–6–62, Cl. 29—552.
Bluth, John M., and J. L. Sellers. Compositions for metal surface reformation. 3,020,140, 2–6–62, Cl. 51—306.
Bly, Donald A., to Hamilton Watch Co. Secondary standard timer. 3,063,233, 11–13–62, Cl. 58—26.
Bly, Kenneth B., W. E. Taylor, and T. G. Thomas, to General Motors Corp. Vehicle wheel structure. 3,042,452, 7–3–62, Cl. 301—6.
Blydorp, Abraham A., to Halliburton Co. Well tool. 3,052,-297, 9–4–62, Cl. 16—21.
Blyth, Jack V., and G. F. Upton, to D. Napier & Son Ltd. Turbine-propeller power units for aircraft. 3,020,004, 2–6–62, Cl. 244—54.
Blythe, Clarence M. : *See*—
Oxley, Le Roy V., and Blythe. 3,026,985.
Blythe, Richard. Electronic control of optical and near optical radiation. 3,035,492, 5–22–62, Cl. 88—61.
Bo, Gilbert, E. Fichet, A. Perrot, and P. Perras, to Societe des Usines Chimiques Rhone-Poulenc. Ethylene polymerization with aluminum titanium tetrachloride catalysts. 3,017,401, 1–16–62, Cl. 260—94.9.
Boake, A., Roberts & Co. Ltd. : *See*—
Chatfield, Herbert W., and Weeks. 3,042,687.
Board, Robert D. : *See*—
Stoker, Robert J., and Board. 3,057,602.
Board, Robert R., to Foster-Forbes Glass Co. Method of stacking cartons. 3,066,811, 12–4–62, Cl. 214—152.
Boardman, Lester A., to Arvin Industries, Inc. Adjustable table. 3,030,716, 4–24–62, Cl. 38—121.
Boardman, Lester R., to Arvin Industries, Inc. Adjustable table. 3,039,215, 6–19–62, Cl. 38—121.
Boat Stabilizers Inc. : *See*—
Dolan, Owen H. 3,029,767.
Boaz, William M., and R. J. Lissant, to Petrolite Corp. Oxyalkylated phenol process. 3,069,307, 12–18–62, Cl. 162—5.
Bobb, Lloyd J., R. B. Goldman, and G. C. Maling, Jr., to Philco Corp. Sound reproducing system. 3,022,377, 2–20–62, Cl. 179—1.
Bobb, Sidney : *See*—
Rachman, Isadore B., and Bobb. 3,029,115.
Bobbe, Arden B. Whisky aging apparatus. 3,021,780, 2–20–62, Cl. 99—277.1.
Bobbe, Clarence, and R. J. Kufrin, to Witco Chemical Co., Inc. Thermoplastic compositions and a method of making the same. 3,035,931, 5–22–62, Cl. 106—235.
Bobear, William J., to General Electric Co. Organopolysiloxanes. 3,031,352, 4–24–62, Cl. 154—2.6.
Bobear, William J., to General Electric Co. Metal carbide containing silicone rubbers. 3,031,430, 4–24–62, Cl. 260—37.
Bobear, William J., to General Electric Co. Method of bonding. 3,053,687, 9–11–62, Cl. 117—76.
Bobeck, Andrew H., to Bell Telephone Laboratories, Inc. Magnetic memory circuits. 3,052,873, 9–4–62, Cl. 340—174.
Bobeck, Andrew H., to Bell Telephone Laboratories, Inc. Magnetic memory circuits. 3,069,665, 12–18–62, Cl. 340—174.
Bobenmyer, David J. Mold assembly and alining device. 3,039,157, 6–19–62, Cl. 22—31.
Boberg, Friedrich, and G. R. Schultze, to Chemische Werke Albert. Reagents for the production of 4,5-dichloro-1,2-dithiole-3-one. 3,062,833, 11–6–62, Cl. 260—327.
Bobkowski, Vincent S. Extension tool. 3,041,724, 7–3–62, Cl. 30—162.
Bobnar, Louis R. : *See*—
Lauck, John A., and Bobnar. 3,046,902.
Shavel, John, Jr., and Bobowski. 3,046,279.
Bobo, Melvin, to General Electric Co. Rotor construction. 3,056,579, 10–2–62, Cl. 253—39.15.
Bobo, Roy A., to Phillips Petroleum Co. Lubricator for earth boring bit. 3,017,937, 1–23–62, Cl. 175—228.
Bobowski, George : *See*—
Shavel, John, Jr., and Bobowski. 3,048,593.
Bobrick, Mitchell, to Sunbeam Lighting Co. Automatic mounting means for a ceiling light fixture. 3,018,083, 1–23–62, Cl. 248—343.
Bobrick, Mitchell, to Sunbeam Lighting Co. Fabricated fluorescent light fixture. 3,040,171, 6–19–62, Cl. 240—51.11.
Bobrowich, Alex : *See*—
Kahn, Elliot, and Bobrowich. 3,047,914.
Bobrowski, Louis G., to The Stanley Works. Fastener. 3,049,920, 8–21–62, Cl. 24—73.
Bobrowski, Henry. Adjustable auger intake shield and deflector. 3,070,221, 12–25–62, Cl. 198—213.
Bobst, Henri, to J. Bobst and Son S.A. Stacking apparatus for sheet material. 3,017,040, 1–16–62, Cl. 214—6.
Bobst, Henri, to J. Bobst and Son, S.A. Presses working sheet material. 3,046,875, 7–31–62, Cl. 101—3.
Bobst, Henri, and J. Kury, to J. Bobst & Son S.A. Presses for cutting sheet material. 3,060,776, 10–30–62, Cl. 83—103.
Bobst, Henri, and J. Kury, to J. Bobst & Son S.A. Overload release coupling. 3,063,263, 11–13–62, Cl. 64—29.
Bobst, J., and Son S.A. : *See*—
Bobst, Henri. 3,017,040.
Bobst, Henri. 3,046,875.
Bobst, Henri, and Kury. 3,060,776.
Bobst, Henri, and Kury. 3,063,263.
Kury, Josef. 3,044,393.
Boby, Robert, Ltd. : *See*—
Wesson, Joseph P. 3,033,393.
Bocca, Alberto, and M. Pagani. Apparatus for punching the uppers of footwear to obtain the holes for the laces. 3,057,-242, 10–9–62, Cl. 83—559.
Bocchino, Joseph J., to Bell Fabricating Co. Inc. Chain lubricator device. 3,020,978, 2–13–62, Cl. 184—17.
Bocciarelli, Carlo V., to Philco Corp. Beam-perceptive device for cathode-ray tube systems. 3,066,239, 11–27–62, Cl. 315—31.
Bochan, John, to General Electric Co. Vibration isolating system. 3,021,956, 2–20–62, Cl. 210—364.
Bochan, John, to General Electric Co. Article drying machine. 3,050,869, 8–28–62, Cl. 34—164.
Bochan, John, to General Electric Co. Bleach agent dispenser system for washing machines. 3,065,622, 11–27–62, Cl. 68—207.
Bochan, John, to General Electric Co. Adjustable water level switch. 3,067,303, 12–4–62, Cl. 200—83.

Bochan, John, and C. E. Pool, to General Electric Co. Clothes Washing machine having a suspension system which serves as a liquid seal. 3,026,700, 3–27–62, Cl. 68—23.
Bochan, John, and P. H. Houser, to General Electric Co. Article treating machine with fluid operated sequence control mechanism. 3,048,026, 8–7–62, Cl. 68—12.
Bochinski, Julius H., to The Fluor Corp., Ltd. Distillation process for synthesizing urea. 3,046,307, 7–24–62, Cl. 260—555.
Bochinski, Julius H., A. L. Kohl, and R. C. Oliver, to The Fluor Corp., Ltd. Urea synthesis. 3,049,563, 8–14–62, Cl. 260—555.
Bochman, Harry L., Jr., to Hi-Shear Rivet Tool Co. Portable power-driven gear-actuated offset torquing tool. 3,027,789, 4–3–62, Cl. 81—57.
Bochumer, Eisenhutte Heintzmann & Co. : *See*—
Heintzmann, Hans F. 3,022,100.
Bochumer Gesellschaft fur Grubenausbau and Technik m.b.H. : *See*—
Heintzmann, Hans F. 3,058,341.
Bocji Corp. : *See*—
Lang, Joseph C. 3,038,161.
Bock, August M., to Bock Industries of Elkhart, Indiana, Inc. Vehicle frame construction. 3,036,856, 5–29–62, Cl. 296—28.
Bock, August M., to Bock Industries of Elkhart, Indiana, Inc. Vehicle frame. 3,042,423, 7–3–62, Cl. 280—106.
Bock, Charles D., to American Bosch Arma Corp. Instrument servo system. 3,048,752, 8–7–62, Cl. 318—19.
Bock, Erwin, to Schumag Schumacher Metallwerke Gesellschaft mit beschrankter Haftung. Cutting devices for moving oblong works. 3,044,336, 7–17–62, Cl. 83—319.
Bock, Frederick C., S. H. Cameron, and H. H. Kantner, to Armour Research Foundation of Illinois Institute of Technology. Means for network computation. 3,053,453, 9–11–62, Cl. 235—185.
Bock Industries of Elkhart, Indiana, Inc. : *See*—
Bock, August M. 3,036,856.
Bock, August M. 3,042,423.
Bock, Louis H. : *See*—
Herrick, Franklin W., and Bock. 3,025,250.
Herrick, Franklin W., and Bock. 3,053,784.
Bock, Richard G. : *See*—
Boyd, Leo R., and Bock. 3,043,954.
Bock, Willy : *See*—
Prohaska, Hans, and Bock. 3,058,654.
Bock, Willy, and A. Kohler, to SWF-Spezialfabrik fur Autozubehor Gustav Rau G.m.b.H. Wiper arm for windshield wiping apparatus. 3,058,143, 10–16–62, Cl. 15—250.34.
Bockelmann, John B. : *See*—
Strandskov, Frede B., Bockelmann, and Carroll. 3,048,488.
Bockelmann, Victor G., to United States of America, Navy. Parachute disreefing device. 3,047,261, 7–31–62, Cl. 244—150.
Bockemuehl, Robert R., to General Motors Corp. Electronic multiplying circuit. 3,019,984, 2–6–62, Cl. 235—194.
Bockemuehl, Robert R., to General Motors Corp. Electromagnetic metal detector. 3,058,059, 10–9–62, Cl. 324—41.
Bockemuehl, Robert R., and R. J. Moffat, to General Motors Corp. Thermocouple circuit. 3,030,575, 4–17–62, Cl. 324—51.
Bockemuehl, Robert R., and A. J. Gioia, to General Motors Corp. Gated amplitude indicator. 3,067,610, 12–11–62, Cl. 73—116.
Bockerman, Bernard J. Yielding joint for exhaust pipes. 3,063,741, 11–13–62, Cl. 285—283.
Böckmann, Klaus : *See*—
Freytag, Karl-Heinz, and Böckmann. 3,037,013.
Bockstahler, Theodore E., to Rohm & Haas Co. Block polyesters and process for producing same. 3,042,650, 7–3–62, Cl. 260—45.4.
Boclet, Daniel : *See*—
Glaude, Max M. V., and Boclet. 3,056,886.
Bodanszky, Miklos, and F. Y. Wiselogle, to Olin Mathieson Chemical Corp. 3-amino-N-nitro-2-oxo-1-piperidinecarboramidine. 3,024,242, 3–6–62, Cl. 260—294.7.
Bodanszky, Mikolas, and J. T. Sheehan, to Olin Mathieson Chemical Corp. 2,2′-(1,4-diaminotetramethylene) bis(4-thiazolecarboxylic acid), salts and process. 3,040,054, 6–19–62, Cl. 260—302.
Bodanszky, Miklos, and J. T. Sheehan, to Olin Mathieson Chemical Corp. Thiazoles. 3,065,240, 11–20–62, Cl. 260—302.
Bodcher, Herman F. V. Refrigeration system with defrosting means. 3,038,317, 6–12–62, Cl. 62—151.
Boddicker, Wilhelm : *See*—
Mohr, Fritz, and Boddicker. 3,058,494.
Boddorff, Raymond D., R. W. Lawrence, and J. Roth, to Hercules Powder Co. Method of blasting. 3,063,373, 11–13–62, Cl. 102—23.
Boddy, Leonard, to King-Seeley Thermos Co. Temperature indicating system. 3,044,296, 7–17–62, Cl. 73—342.
Bode, Donald E. : *See*—
Blakney, Robert M., Bode, Neyhart, and Potok. 3,041,167.
Bode, Harald E. W., to The Wurlitzer Co. Transposition apparatus for electrical musical instrument. 3,023,659, 3–6–62, Cl. 84—445.
Bode, Harald E. W. Electronic apparatus. 3,069,956, 12–25–62, Cl. 84—1.24.
Bodeen, Algot V. Registering device. 3,017,087, 1–16–62, Cl. 235—122.
Bodell, Doris R. : *See*—
Bodell, Robert L., and D. R. 3,035,777.
Bodell, Robert L., and D. R. Distribution system for agricultural liquids. 3,035,777, 5–22–62, Cl. 239—201.
Bodemuller, Rudolp, to The Bendix Corp. Fuel feed and power control system for gas turbine engines. 3,053,047, 9–11–62, Cl. 60—39.28.
Boden, Ogden W., and J. F. Drescher. Shoe form and storage box. 3,063,550, 11–13–62, Cl. 206—7.
Bodendieck Tool Co. : *See*—
Turner, William F. 3,057,233.
Bodendoerfer, Raymond E. : *See*—
Loeser, Donald B., and Bodendoerfer. 3,065,676.
Bodenger, Jacob. Stethoscope. 3,067,833, 12–11–62, Cl. 181—24.
Bodenschatz, August, to I-T-E Circuit Breaker Co. Cover lift pin. 3,015,709, 1–2–62, Cl. 200—114.
Bodenschatz, August, to I-T-E Circuit Breaker Co. Bolted connection for current limiting fuses. 3,043,934, 7–10–62, Cl. 200—114.
Bodenschatz, August, and C. E. Gryctko, to I-T-E Circuit Breaker Co. Circuit breaker bimetal heater. 3,023,288, 2–27–62, Cl. 200—116.
Bodenseewerk Perkin-Elmer & Co., G.m.b.H. : *See*—
Bolz, Hans M. 3,052,154.
Bolz, Hans M. 3,062,088.
Bolz, Hans M. 3,062,103.
Engler, Ernst. 3,046,332.
Möller, Waldemar. 3,021,714.
Möller, Waldemar. 3,050,671.
Muller, Hans-Wolfgang. 3,052,825.
Patzig, Ernst. 3,063,051.
Bodez, Pierre M. J., to Precision Mecanique Labinal. Coded radio-pulse transmitter. 3,041,538, 6–26–62, Cl. 525—38.
Bodfish, Thomas H. : *See*—
Leo, Herbert T., and Bodfish. 3,065,081.
Bodge, Phillip K., to General Electric Co. Magnetic drive assembly. 3,027,473, 3–27–62, Cl. 310—104.
Bodge, Philip K., to General Electric Co. Flowmeter. 3,056,291, 10–2–62, Cl. 73—194.
Bodily, La Thare N. : *See*—
Cutler, Leonard S., Bagley, and Bodily. 3,040,158.
Bodin, Girin & Cie., Tissus Industriels, Societe : *See*—
Rebut, Paul. 3,044,497.
Bodine, Albert G. Method of and apparatus for cleaning out oil well casing perforations and surrounding formation by application of asymmetric acoustic waves with peaked compression phase. 3,016,093, 1–9–62, Cl. 166—43.
Bodine, Albert G. Sonic apparatus for fracturing petroleum bearing formation. 3,016,095, 1–9–62, Cl. 166—177.
Bodine, Albert G. Sonic wave earth digging and moving machines. 3,030,715, 4–24–62, Cl. 37—195.
Bodine, Albert G. Sonic method and apparatus for surface mining mineral beds or the like. 3,033,543, 5–8–62, Cl. 262—13.
Bodine, Albert G. Acoustic apparatus for driving piles. 3,054,463, 9–18–62, Cl. 175—19.
Bodine, Albert G. Method of shaft joining. 3,063,143, 11–13–62, Cl. 29—447.
Bodine, Albert G., Jr. Method and apparatus for sonic bonding. 3,022,814, 2–27–62, Cl. 156—73.
Bodine, Albert G., Jr. Apparatus for transmitting sonic vibrations into liquid bodies. 3,033,158, 5–8–62, Cl. 116—137.
Bodine, Albert G., Jr. Means for suppressing combustion abnormalities in internal combustion engines. 3,063,438, 11–13–62, Cl. 123—191.
Bodine, George C. Workpiece grasping apparatus. 3,021,168, 2–13–62, Cl. 294—88.
Bodkin, Lawrence E. Brake with wear detecting means. 3,020,873, 2–13–62, Cl. 116—114.
Bodkin, Lawrence E. Drive mechanism. 3,062,068, 11–6–62, Cl. 74—337.
Bodkins, George R. Planter. 3,030,735, 4–24–62, Cl. 47—39.
Bodlaender, Wolfgang B. A., and H. Dijkhuizen, to Shell Oil Co. Process for purification of polyvinyl chloride. 3,052,663, 9–4–62, Cl. 260—92.8.
Bodle, William W. : *See*—
De Lury, James, Young, and Bodle. 3,020,723.
Bodley, Harry D. : *See*—
Alderfer, Sterling W., and Bodley. 3,020,587.
Alderfer, Sterling W., and Bodley. 3,041,682.
Bodmer, Hans, A.-G. : *See*—
Weiss, Robert. 3,058,667.
Bodnar, Alex : *See*—
McDermott, John J., and Bodnar. 3,058,486.
Bodnar, John. Strap buckle. 3,027,616, 4–3–62, Cl. 24—171.
Bodnar, John W., N. J. Rosen, and C. P. Spaulding, to Datex Corp. Data processing systems. 3,063,625, 11–13–62, Cl. 235—61.
Bodo, Gerhard, A. Diskus, and W. Beck, to Osterreichische Stickstoffwerke Aktiengesellschaft. Fumigant compositions comprising hexamethylene tetramine dinitrate. 3,044,929, 7–17–62, Cl. 167—39.
Bodycomb, Alistair K. Vane type engine, pump, fluid compressor, flow meter and the like. 3,043,231, 7–10–62 Cl. 103—144.

Böe, Hans, to Carl Freudenberg Kommanditgesellschaft auf Aktien, Firma. Water-soluble paper and method of making it. 3,034,922, 5–15–62, Cl. 117—63.

Boecker, Nevelyn C. Goose caller. 3,020,675, 2–13–62, Cl. 46—180.

Boeckling, Kurt: *See*—
Jacobi, Richard, and Boeckling. 3,059,051.

Boedigheimer, Raymond J.: *See*—
Bowers, Roy C., and Boedigheimer. 3,037,599.

Boedigheimer, Raymond J., and S. J. Zanoni, to Borg-Warner Corp. One-way clutch. 3,064,777, 11–20–62, Cl. 192—45.

Boegehold, Alfred L., to General Motors Corp. Brakes. 3,038,563, 6–12–62, Cl. 188—218.

Boegly, William J., to Sterling Drug Inc. Valve for aerosols. 3,048,306, 8–7–62, Cl. 222—394.

Boehlow, Robert W., to ACF Industries, Inc. Pump connector rod link. 3,045,505, 7–24–62, Cl. 74—469.

Boehm, Eric G.: *See*—
Mutolo, Peter J., and Boehm. 3,018,677.

Boehm, Max F. Spray device and method. 3,016,200, 1–9–62, Cl. 239—143.

Boehmer, Andrew P.: *See*—
Harter, Donald G., Haley, Boehmer, and Jaremus. 3,041,847.

Boehmer, Andrew P., and B. M. Jaremus, to Borg-Warner Corp. Starting relay system for heat pumps. 3,063,251, 11–13–62, Cl. 62—160.

Boehringer, C. F., & Soehne G.m.b.H.: *See*—
Achelis, Johann D., Gall, Haack, and Volmel. 3,028,382.
Achelis, Johann D., Gall, Haack, and Voemel. 3,044,936.
Braun, Franz, and Haack. 3,026,328.
Popelak, Alfred, and Lettenbauer. 3,028,394.

Boehringer, C. H., Sohn: *See*—
Adickes, Franz, and Zelle. 3,052,684.
Hauptmann, Karl H., and Zelle. 3,022,294.
Konz, Wilhelm, and Zeile. 3,030,363.
Konz, Wilhelm C., and Zelle. 3,065,260.
Zelle, Karl, Sehring, and Schicke. 3,030,263.

Boeing Airplane Co.: *See*—
Abraham, Frank J. 3,043,367.
Anderson, Charles N. 3,042,159.
Bergman, Burton, Eisenhart, Opsahl, and Wood. 3,051,280.
Brees, Dale W. 3,040,516.
Brown, Robert B., Brady, and Sanders. 3,033,490.
Claiapitt, Bert H., and German. 3,031,520.
Curry, Truman M. 3,019,643.
Dolliver, David M. 3,020,712.
Grotz, Charles A., Reinhart, and Swanke. 3,055,174.
Harding, Howard E. 3,033,711.
Hardy, John A. 3,042,866.
Hebeler, Henry K. 3,022,662.
Hunt, William R. 3,036,350.
James, Varnell L. R., and Pearson. 3,050,937.
Kirkbride, John F. 3,052,092.
Lawler, John A. 3,032,981.
Lawler, John A., and Reinhart. 3,061,038.
McKelvey, Richard B. 3,020,947.
Moore, William A. 3,015,946.
Moorehead, James R. 3,025,667.
Morrison, John A., Schickler, and Schmidt. 3,070,395.
Oliver, Ivan L. 3,031,210.
Osgood, Richard E. 3,050,987.
Pluylaar, Martin C. 3,023,041.
Pearson, Raymond E. 3,043,410.
Ramsey, Richard V. 3,051,418.
Rogers, A. C., Jr. 3,039,721.
Rowe, Donald C. 3,047,710.
Tobey, Harry. 3,044,818.
Schairer, George S. 3,036,429.
Schmidt, Paul E. 3,031,008.
Schmidt, Paul E., and Waddell. 3,056,446.
Seeger, Bernard L. 3,022,964.
Seibel, Bobly H. 3,022,578.
Snyder, Herman B. 3,052,582.
Snyder, Herman B. and Kaylor. 3,025,225.
Snyder, Herman B., and Spencer. 3,061,494.
Vdolek, Alexander V. 3,036,431.
Weiland, Richard H. 3,055,620.
Weiland, Richard H., and Kelton. 3,051,419.

Boekemeier, Ralph, to Mechanical Handling Systems, Inc. Angle valved mixer. 3,068,074, 12–11–62, Cl. 23—252.

Boekemeier, Ralph, to Mechanical Handling Systems, Inc. Axially valved mixer. 3,068,075, 12–11–62, Cl. 23—252.

Boekhorst, Antonius: *See*—
Janssen, Peter J. H., and Boekhorst. 3,024,307.
Janssen, Peter J. H., Boekhorst, and Smeulers. 3,061,757.

Boekhorst, Antonius, to North American Philips Co., Inc. Controllable oscillator. 3,042,879, 7–3–62, Cl. 331—20.

Boenau, Arthur H., P. F. Bruins, and R. H. Salvesen, to Socony Mobil Oil Co., Inc. Compositions of epoxy resin and aromatic hydrocarbon oils. 3,062,771, 11–6–62, Cl. 260—33.6.

Boenecke, Alfred. Container. 3,055,534, 9–25–62, Cl. 220—81.

Boening, Elroy F.: *See*—
Peeples, Robert M., and Boening. 3,060,358.

Boensch, Frank D., to United States of America, Air Force. Parachute pack closing device. 3,029,050, 4–10–62, Cl. 244—148.

Boensel, Donald W., and F. C. Bruema, to Space-General Corp. Pulse detector apparatus. 3,062,442, 11–6–62, Cl. 235—92.

Boer, George: *See*—
Pistole, Harry, True, Pitts, Morse, McFarland, and Boer. 3,040,811.

Boerdijk, Arie H., and J. M. Holst, to North American Philips Co., Inc. Electric connection between fixed and rotatable parts. 3,034,081, 5–8–62, Cl. 339—6.

Boericke, Harold, Jr. Sub-surface craft. 3,063,397, 11–13–62, Cl. 114—57.

Boerma, Jan A. K., to Onderzoekingsinstituut Research, N.V. Preparation of polyesters using an onium compound as a catalyst. 3,039,998, 6–19–62, Cl. 260—75.

Boerner, Estella L. Eye shield. 3,035,270, 5–22–62, Cl. 2—10.

Boersma, Sipko L., to Optische Industrie de Oude Delft, N.V. Light measuring apparatus. 3,042,805, 7–3–62, Cl. 250—207.

Boeryd, Arne G. T., U. R. O. Lindbäck, W. E. Fredriksson, and I. Mitnitzky, to Telefonaktiebolaget LM Ericsson. Telephone instrument. 3,069,508, 12–18–62, Cl. 179—81.

Boese, Peter, and E. Götz, to Licentia-Patent-Verwaltungs-G.m.b.H. Computer. 3,052,411, 9–4–62, Cl. 235—155.

Boester, Carl F. Sewage treatment apparatus. 3,051,315, 8–28–62, Cl. 210—195.

Boettcher, Carl E.: *See*—
Hubacker, Earl F., and Boettcher. 3,066,852.

Boettcher, Stephen A., and J. C. Page, to Speedlap Corp. Valve. 3,040,770, 6–26–62, Cl. 137—454.6.

Boetticher, Albert A.: *See*—
Boetticher, Audrey L., and A. A. 3,048,942.

Boetticher, Audrey L. and A.A. Container for flowers and the like. 3,048,942, 8–14–62, Cl. 47—41.

Boettner, Joseph L., to K. C. Construction Supply Co. Forms for concrete construction. 3,047,931, 8–7–62, Cl. 25—131.

Boff, Albert F., to Hewlett-Packard Co. Voltage to frequency converter. 3,040,273, 6–19–62, Cl. 332—14.

Bofinger, Karl: *See*—
Austing, August T. L., and Bofinger. 3,062,263.

Bofors, Aktiebolaget: *See*—
Aldrin, Henry W. 3,024,894.
Blomquist, Ake H. P., and Hansson. 3,041,518.
Christiansson, Carl M. 3,029,707.
Endres, Gunther, Soehring, and Henn. 3,038,835.
Kallin, Kurt G. L., and Lindblad. 3,036,165.
Oler, Ernst B. 3,048,951.
Olsson, Olof B. 3,058,422.
Södervist, Karl O. 3,021,762.
Strandell, Nils E. 3,024,363.
Tillander, Folke G. 3,021,761.

Bogart Mfg. Corp.: *See*—
Lapidus, Solomon. 3,064,105.

Bogater, John P., to General Motors Corp. Ltd hinge and counterbalance. 3,019,473, 2–6–62, Cl. 16—190.

Bogater, John P., S. F. Loria, and N. E. Putnam. Lift gate support for station wagon. 3,019,934, 2–6–62, Cl. 217—60.

Bogaty, Herman, N. R. S. Hollies, and J. C. Hintermaier, to United States of America, Army. Mixed fabric with wool surface. 3,060,551, 10–30–62, Cl. 28—78.

Bogdan, Andrew A., Fly cutter with micrometrical adjustment. 3,019,676, 2–6–62, Cl. 77—77.

Bogdonoff, Harold: *See*—
Carlson, Chester F., and Bogdonoff. 3,015,304.

Boger, David H., Sr. Snap hook. 3,040,404, 6–26–62, Cl. 24—241.

Boggiss, Walter C. Perpetual calendars. 3,017,711, 1–23–62, Cl. 40—109.

Boggs, Alben C., to Edwin L. Wiegand Co. Methods of making electric resistance heaters. 3,026,604, 3–27–62, Cl. 29—155.63.

Boggs, Alben C., to Edwin L. Wiegand Co. Electric heating units and method of making the same. 3,031,739, 5–1–62, Cl. 29—155.63.

Boggs, Bruce O. Toilet fume exhaust. 3,049,722, 8–21–62, Cl. 4—213.

Boggs, Fitzhugh W., to United States Rubber Co. Article exhibiting reduced frictional drag in fluids. 3,051,599, 8–28–62, Cl. 154—43.

Boggs, H. D., Co., Ltd.: *See*—
Boggs, Herbert D. 3,037,244.

Boggs, Herbert D., to H. D. Boggs Co., Ltd. Apparatus for casting of tubular articles. 3,037,244, 6–5–62, Cl. 18—26.

Bogle, Frank. Fuel distribution system for internal combustion engines. 3,049,111, 8–14–62, Cl. 123—119.

Bogle, Kenneth H., and C. K. Lovejoy, to Scripto, Inc. Merchandising display device. 3,017,035, 1–16–62, Cl. 211—70.

Bognar, Charles J.: *See*—
Mackey, Eugene L., Bognar, and Dailey. 3,036,196.

Bognar, Charles J., to The Yoder Co. High frequency welder assembly. 3,028,469, 4–3–62, Cl. 219—8.5.

Bogner, Gerald Q., to Wesson Corp. Giant mill. 3,023,486, 3–6–62, Cl. 29—105.

Bogner, Joseph F., and D. W. Enoch, to Interstate Bakeries Corp. Oven fresh cake and method of making the same. 3,031,309, 4–24–62, Cl. 99—171.

Bogner, Philip W.: *See*—
Osmundsen, Norman K., and Bogner. 3,064,164.

Bogner, Richard D., to Avien, Inc. End fire element array. 3,015,821, 1–2–62, Cl. 343—753.

Bogren, Sven, to Ventilatorverken, A.-B. Air and water heating devices. 3,033,192, 5–8–62, Cl. 126—101.

Bogue Electric Mfg. Co.: *See*—
Herbst, John A. 3,030,934.
Herbst, John A., and Garnet. 3,060,883.
Bogyo, Stephen W., J. A. Rikert, and G. J. Winter, to General Foods Corp. Method of making a cooked potato product. 3,044,880, 7–17–62, Cl. 99—100.
Bohaboy, Edward J., F. A. Klasek, and O. H. Mannisto, to Western Electric Co., Inc. Apparatus for working selected portions of articles. 3,048,328, 8–7–62, Cl. 234—87.
Bohanan Mfg. Co.: *See*—
Herbert, Donald H. 3,056,623.
Bohannon, David L., E. F. Parnell, Jr., E. M. Shanklin, J. G. Williamson, and E. P. Nagel, to Pneumafil Corp. Mounting structure. 3,061,892, 11–6–62, Cl. 19—263.
Bohannon, William D., Jr., to Western Electric Co., Inc. Electrical terminal boards. 3,034,087, 5–8–62, Cl. 339—17.
Bohannon, William D., Jr., to Western Electric Co., Inc. Wire wrapping machine. 3,035,395, 5–22–62, Cl. 57—19.
Bohanon, Hoy R. Air circulating and mixing fan. 3,051,072, 8–28–62, Cl. 98—40.
Bohl, Leland S., C. L. Critchfield, W. F. Huch, E. P. Ney, and J. R. Winckler, to United States of America, Navy. Plastic cylinder balloon. 3,063,656, 11–13–62, Cl. 244—31.
Bohl, Leland S., W. F. Huch, E. P. Ney, and J. R. Winckler, to United States of America, Navy. Automatic lift augmentation for balloons. 3,070,335, 12–25–62, Cl. 244—96.
Bohl, Lester E., and R. M. Vancamp, to Pittsburgh Plate Glass Co. Resolution of trichloroethylene from reaction products. 3,065,279, 11–20–62, Cl. 260—654.
Bohle, Ulrich: *See*—
Hotop, Werner, Meese, Masjoshusmann, Bohle, and Ginzel. 3,039,390.
Bohler & Co. Aktiengesellschaft, Gebr.: *See*—
Buchleitner, Johann. 3,068,668.
Strohmeier, Harald. 3,019,484.
Strohmeier, Harald. 3,063,078.
Bohler & Weber K.G.: *See*—
Fuhring, Heinrich. 3,065,617.
Bohlin, Nils I., to Volvo, Aktiebolaget. Safety belt. 3,043,625, 7–10–62, Cl. 297—389.
Bohlman, Ivan C.: *See*—
Bohlman, Raymond A. and I. C. 3,059,485.
Bohlman, Raymond A. and I. C. Electromechanical door opening and closing mechanism. 3,059,485, 10–23–62, Cl. 74—95.
Bohlman, Walter S., and J. D. Hayes, Jr., to Hercules Powder Co. Vibratory packing machine. 3,033,069, 5–8–62, Cl. 86—20.
Bohm, Hans: *See*—
Schreiner, Horst, and Bohm. 3,059,040.
Bohm, George. Garment stay. 3,037,211, 6–5–62, Cl. 2—256.
Bohm, Robert E.: *See*—
Taylor, Donald S., Bower, and Bohm. 3,018,307.
Bohm, Rudolf: *See*—
Hopp, Harold P., and Bohm. 3,060,992.
Bohm, Siegfried, H. Hainy, K. Jurenz, and G. Jehmlich, to Kamera- und Kinowerke Dresden, VEB. Photographic cameras of the two-film type. 3,034,412, 5–15–62, Cl. 95—31.
Bohm, Siegfried, to Kamera- und Kinowerke Dresden, VEB. Focal plane camera shutter. 3,066,590, 12–4–62, Cl. 95—57.
Bohm, Siegfried, F. Winkler, and H. Skolaude, to Kamera- und Kinowerke Dresden, VEB. Reflex camera with diaphragm control. 3,052,170, 9–4–62, Cl. 95—42.
Böhme Fettchemie G.m.b.H.: *See*—
Heyden, Rudi, and Plapper. 3,019,133.
Plapper, Jürgen, Heyden, and Böhme. 3,023,073.
Wedell, Hans. 3,057,676.
Böhme, Gerhard: *See*—
Plapper, Jürgen, Heyden, and Böhme. 3,023,073.
Bohme, Horst, and K. Hartke, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process of preparing α-halogenated amines. 3,046,274, 7–24–62, Cl. 260—247.
Bohmer, Karl. Circuit interrupting device for motor vehicle directional signal. 3,041,425, 6–26–62, Cl. 200—113.
Bohmfalk, Barbara M., to E. I. du Pont de Nemours Co. Alternately crimped staple fiber. 3,034,196, 5–15–62, Cl. 28—82.
Bohn, Alfred T., and K. R. Berge, to Turner Corp. Oscillatory lawn sprinkler. 3,055,595, 9–25–62, Cl. 239—242.
Bohn, Carl E.: *See*—
Moricca, Anthony C. and S. A., and Bohn. 3,017,571.
Bohn, Donald I., to I-T-E Circuit Breaker Co. Magnetic blowout for circuit breakers. 3,033,963, 5–8–62, Cl. 200—147.
Bohn, Donald I. Temperature control system. 3,050,601, 8–21–62, Cl. 200—136.3.
Bohn, Jacob L.: *See*—
Korneff, Theodore, Bohn, and Nadig. 3,029,685.
Bohn, Jacob L., F. H. Nadig, and T. Korneff, to United States of America, Air Force. Rotating mirror. 3,040,627, 6–26–62, Cl. 88—84.
Bohn, Raymond T.: *See*—
Melnick, Daniel, Vahlteich, and Bohn. 3,065,080.
Bohner, William R.: *See*—
Hoffmaster, George R., Gongoll, Herbine, and Bohner. 3,060,444.
Bohnert, Jackson L.: *See*—
Gammeter, Harry F., and Bohnert. 3,056,346.
Bohnet, Herman C. Trailer coupling guide. 3,015,162, 1–2–62, Cl. 33—46.
Bohnhoff, Arthur F., to General Motors Corp. Brake booster unit. 3,054,386, 9–18–62, Cl. 121—41.
Bohnhoff, Arthur F., to General Motors Corp. Radial ball piston pump. 3,056,357, 10–2–62, Cl. 103—161.
Bohnsack, John A., to Aetna Steel Products Corp. Partition construction. 3,019,862, 2–6–62, Cl. 189—34.
Bohnsack, John A., to Aetna Steel Products Corp. Partition construction. 3,039,569, 6–19–62, Cl. 189—34.
Bohonos, Nestor: *See*—
Shay, Anthony J., Lowery, Bohonos, and Backus. 3,057,779.
Bohr, Alexander H., to Thiokol Chemical Corp. Jet device. 3,039,718, 6–19–62, Cl. 244—4.
Bohrer, Jean J.: *See*—
Solow, Benjamin, and Bohrer. 3,070,647.
Bohus, Theodore. Schiffli embroidery machine. 3,050,020, 8–21–62, Cl. 112—95.
Boice, Frank S., and L. H. Johnson, to United Geophysical Corp. Seismic prospecting system. 3,051,926, 8–28–62, Cl. 340—15.5.
Boicey, James H., and C. H. Cowley, to Libbey-Owens-Ford Co. Method of and apparatus for pressing sheets of laminated safety glass. 3,029,177, 4–10–62, Cl. 156—99.7.
Boicey, James H., and C. B. Williams, Jr., to Libbey-Owens-Ford Glass Co. Apparatus for pressing curved laminated safety glass. 3,054,344, 9–18–62, Cl. 100—169.
Boidol, Klaus: *See*—
Reindl, Eugen, and Boidol. 3,067,225.
Boies, David B., J. I. Bregman, and T. R. Newman, to Nalco Chemical Corp. Corrosion inhibition with molecularly dehydrated phosphate glass. 3,067,024, 12–4–62, Cl. 71—50.
Boij, Karl O. A., and B. K. A. Johansson. Apparatus for burning liquid fuel. 3,042,108, 7–3–62, Cl. 158—94.
Boilard, Alphonse. Anti-skid chains. 3,034,556, 5–15–62, Cl. 152—229.
Boime, Andre: *See*—
Charonnat, Raymond, Lechat, Chareton, and Boime. 3,031,457.
Boiney, Joseph F., and E. L. Schulman, to Westinghouse Electric Corp. Resinous compositions and composite laminated members produced therewith. 3,048,508, 8–7–62, Cl. 154—43.
Bois, Franklin L.: *See*—
Philipchuk, Vasil, and Bois. 3,024,526.
Boisvert, Ubald: *See*—
Lemay, Armand. 3,041,749.
Boltnott, Boyd D. Instrument for and method of airborne gravitational geophysical exploration. 3,038,338, 6–12–62, Cl. 73—382.
Bojako, Thomas B., and C. K. Zell. Anti-friction rotary seal. 3,070,378, 12–25–32, Cl. 277—87.
Bojanowski, Alex. Stacking containers. 3,070,257, 12–25–62, Cl. 220—97.
Bok, Edward: *See*—
Bok, Hendrik F. and E. 3,037,709.
Bok, Hendrik F., and E. 3,038,057.
Bok, Hendrik F. and E. Paint spray gun. 3,037,709, 6–5–62, Cl. 239—412.
Bok, Hendrik F. and E. Evaporation device. 3,038,057, 6–5–62, Cl. 219—38.
Bokros, Jack C.: *See*—
Howard, Robert C., and Bokrus. 3,024,181.
Bokum Tool Co., Inc.: *See*—
George, Peter D. 3,044,322.
Heuser, Helmut C. 3,025,729.
Bolander, Warren W., and B. P. Chausse, to General Electric Co. Data storage register and control system. 3,068,451, 12–11–62, Cl. 340—174.
Bolaski, Walter, and J. C. Gallatin, to Hammermill-Massachusetts Paper Co., Inc. Enzymatic conversion of cellulosic fibers. 3,041,246, 6–26–62, Cl. 195—8.
Bolcato, Leslie F.: *See*—
Strys, William J., and Bolcato. 3,019,797.
Bolch, Adrian D., Jr., and N. O. Felps, to Esso Research and Engineering Co. Device for detecting leaks. 3,023,607, 3–6–62, Cl. 73—46.
Bolda, Edward F. Incinerator. 3,055,320, 9–25–62, Cl. 110—15.
Boldebuck, Edith M., to General Electric Co. Recording medium and polysiloxane and resin mixture therefor. 3,063,872, 11–13–62, Cl. 117—211.
Bolding, Hubert V., to Standard Packaging Corp. Protective carton. 3,050,231, 8–21–62, Cl. 229—39.
Bolding, Hubert V., to Standard Packaging Corp. Display package. 3,069,004, 12–18–62, Cl. 206—45.14.
Boldingh, Willem H., to North American Philips Co., Inc. X-ray device. 3,027,460, 3–27–62, Cl. 250—103.
Boldon, Alvyn C.: *See*—
Allbright, Norman J., and Boldon. 3,057,699.
Boldrini, Rino. Flanging machine. 3,055,414, 9–25–62, Cl. 153—34.
Bole, Claude E., and G. Gilbert, to United States Steel Corp. Method of increasing the anthracene content of cresote. 3,069,347, 12–18–62, Cl. 208—42.
Bole, Robert K.: *See*—
Baller, Maurice H., Bole, Hersh, and Meekins. 3,064,537.
Boldens Gruvaktiebolag: *See*—
Am, Ingvald. 3,026,952.
Bollefer, Dwight L., to Kodiak, Inc. Ice cube making machine. 3,040,545, 6–26–62, Cl. 62—340.
Bollefer, Dwight L., to Kodiak, Inc. Freezing mold for ice cube making machines. 3,043,117, 7–10–62, Cl. 62—344.

Bolef, Dan I.: *See*—
Chester, Peter F., and Bolef. 3,023,366.
Bolef, Dan I., and P. F. Chester, to Westinghouse Electric Corp. Maser. 3,023,367, 2–27–62, Cl. 330—4.
Boler, Leonard J., and W. E. Worley, to The Bendix Corp. Mach number control device. 3,021,670, 2–20–62, Cl. 60—35.6.
Boles, Robert W.: *See*—
Shupe, Marvin, and Boles. 3,047,981.
Bolesky, John D., to Therm-O-Disc, Inc. Thermostatic controls. 3,029,329, 4–10–62, Cl. 200—137.
Boley, Robert D.: *See*—
Nielsen, Erik J., and Boley. 3,024,439.
Bolger, Derek E.: *See*—
MacPhee, Malcolm, and Bolger. 3,051,557.
Bolger, Henry. Toilet tissue holder and storage compartment. 3,039,709, 6–19–62, Cl. 242—55.3.
Bolgiano, Nicholas C., to Armstrong Cork Co. Resinous polycarboxylate plasticized with a tertiary alkyl polyethoxy amine. 3,070,563, 12–25–62, Cl. 260—32.6.
Bolhofer, William A., to Merck & Co., Inc. 3-hydroxy-3-biphenylylheptanoic acid. 3,027,406, 3–27–62, Cl. 260—520.
Bolhofer, William A., to Merck & Co., Inc. 3-hydroxy-3-(n-butyl)-7,11-dimethyldodecanoic acid. 3,031,481, 4–24–62, Cl. 260—413.
Bolie, Victor W., to Collins Radio Co. Radiometric navigation system. 3,047,863, 7–31–62, Cl. 343—117.
Boling, Edgar J. Apparatus for gauging material. 3,059,674, 10–23–62, Cl. 142—174.
Bolinger, Donald B. Dual bed and convertible couch combined. 3,047,885, 8–7–62, Cl. 5—9.
Bolinger, Edgar D.: *See*—
Pittman, Edgar H., and Bolinger. 3,047,932.
Bolinger, Edgar D., to Deering Milliken Research Corp. Knitted textile products and methods for their preparation. 3,021,588, 2–20–62, Cl. 28—76.
Bolinger, Edgar D., to Deering Milliken Research Corp. Method of preparing crimped yarns. 3,035,328, 5–22–62, Cl. 28—72.
Bolkow-Entwicklungen K.G.: *See*—
Derschmidt, Hans. 3,053,326.
Heidelberg, Götz. 3,039,537.
Hofapudwig. 3,038,685.
Koril, Milo, and Hermann. 3,053,095.
Nauschutz, Peter, Planitzer, and Schindler. 3,069,975.
Nauschutz, Peter, Planitzer, and Schindler. 3,070,016.
Paist, Leo. 3,038,110.
Planitzer, Erich. 3,040,879.
Bollenbacher, Paul V.: *See*—
Visser, Gerrit A., and Bollenbacher. 3,059,281.
Bollenback, Carol H., G. R. Hunt, and J. J. Svarz, to Nalco Chemical Co. Industrial process water treatment. 3,021-256, 2–13–62, Cl. 162—161.
Bollenback, Carol H., G. R. Hunt, E. Saito, and J. J. Svarz, to Nalco Chemical Co. Industrial process water treatment. 3,024,159, 3–6–62, Cl. 162—161.
Boller, Carl, W. Gindel, and A. Kirstahler, to Deutsche Hydrierwerke G.m.b.H. Process for improving the surface properties of powders. 3,019,123, 1–30–62, Cl. 106—308.
Boller, Charles R., to Standard Conveyor Co. Apparatus for turning cartons or other load units. 3,063,542, 11–13–62, Cl. 198—33.
Bolliger, Frederic E., to The Garrett Corp. Load-speed control system for turbine engines. 3,034,582, 5–15–62, Cl. 170—135.74.
Bollin, Robert S., to The Toledo Pipe Threading Machine Co. Apparatus for preparing tubing for a sweated joint. 3,026,-550, 3–27–62, Cl. 15—44.
Bollinger, Luther L., Sr. Two-piece journal box seal means. 3,035,844, 5–22–62, Cl. 277—132.
Bollinger, Richard C.: *See*—
Kerstuks, Albert, Hooke, and Bollinger. 3,044,701.
Bollman, Geo. W., & Co., Inc.: *See*—
Keene, Richard S. 3,029,156.
Bollmeier, Emil W., to Minnesota Mining and Mfg. Co. Connector device. 3,015,509, 1–2–62, Cl. 287—78.
Bolser, Mary E. Applicator for fluids. 3,043,316, 7–10–62, Cl. 132—74.5.
Bolsey Camera Co. Inc.: *See*—
Bolsey, Jacques. 3,063,335.
Bolsey, Jacques, to Bolsey Camera Co. Inc. Camera mechanism with intermittent pull down system. 3,063,335, 11–13–62, Cl. 88—18.4.
Bolsey, Jacques. Projection screen adapted to have writing applied thereto. 3,067,530, 12–11–62, Cl. 35—66.
Bolstad, Archibald N., P. O. Sherman, and S. Smith, to Minnesota Mining and Mfg. Co. Process for preparing block and graft copolymers of perfluoroalkyl monomer and resulting product. 3,068,187, 12–11–62, Cl. 260—29.6.
Bolstad, Luther L., to Minneapolis-Honeywell Regulator Co. Fluid pump. 3,021,793, 2–20–62, Cl. 103—152.
Bolston, Leonard, to General Motors Corp. Loudness meter. 3,031,528, 4–24–62, Cl. 179—1.
Bolston, Leonard, J. A. Bozymowski, and R. B. Colten, to General Motors Corp. Quenching media evaluation circuit. 3,054,048, 9–11–62, Cl. 324—34.
Bolt Beranek and Newman Inc.: *See*—
Watters, Bill G. 3,062,316.
Bolt Beranek and Newman, Inc.: *See*—
Baruch, Jordan J., and Watters. 3,059,287.
Bolt, Reginald C., to Molins Machine Co. Ltd. Apparatus for inspecting rod-like articles having transparent or translucent spaces. 3,040,179, 6–19–62, Cl. 250—223.
Bolt, Robert O.: *See*—
Abbott, Andrew D., and Bolt. 3,029,269.
Bolt, Robert O., and B. J. Fontana, to United States of America, Atomic Energy Commission. Method of resisting radiation damage to organic fluids and compositions therefor. 3,052,738, 9–4–62, Cl. 260—666.5.
Bolter, John R., and R. H. Beaton, to C. A. Parsons & Co. Ltd. Gas circulatory means. 3,045,895, 7–24–62, Cl. 230—120.
Boltinghouse, Joseph C.: *See*—
Slusser, John M., and Boltinghouse. 3,025,708.
Bolton, Benjamin A.: *See*—
Hirsch, Arthur G., Bolton, and Shelby. 3,062,770.
Hirsch, Arthur G., Bolton, and Van Strien. 3,067,157.
Kolb, Kenneth E., and Bolton. 3,060,191.
Bolton, Benjamin A., to Standard Oil Co. Polyester from trimellitic anhydride, glycol and alkanol. 3,026,300, 3–20–62, Cl. 260—77.
Bolton, Benjamin A., to Standard Oil Co. Styrene modified isophthalic alkyds. 3,054,763, 9–18–62, Cl. 260—22.
Bolton, Benjamin A., to Standard Oil Co. Water-soluble polyester and aqueous solution of same. 3,067,158, 12–4–62, Cl. 260—29.2.
Bolton, Benjamin A., and K. E. Kolb, to Standard Oil Co. Novel bis (trimellit-imide) alkanes and bis (trimellitamide) alkanes. 3,051,724, 8–28–62, Cl. 260—325.
Bolton, John W., & Sons, Inc.: *See*—
Cowles, Edwin. 3,043,526.
Johnson, Charles A. 3,059,863.
Johnson, Charles A., and Hildebrandt. 3,065,920.
Prevost, Bruno E., and St. Onge. 3,017,177.
Bolton, Norman A.: *See*—
Auer, John H., Jr., Bolton, Kendall, and Hagen. 3,046,-544.
Kendall, Hugh C., Auer, Bolton, and Frielinghaus. 3,042,303.
Kendall, Hugh C., Auer, Bolton, and Frielinghaus. 3,042,899.
Bolton, Norman A., to General Railway Signal Co. Control system for railway car classification yard. 3,054,891, 9–18–62, Cl. 246—182.
Bolton, Paul D. Positioning, locating and weighing apparatus for aircraft or the like. 3,035,528, 5–22–62, Cl. 104—44.
Bolton, Paul D. Aircraft positioning and locating system. 3,040,674, 6–26–62, Cl. 104—44.
Bolton, Robert B. Rope guide roller. 3,045,975, 7–24–62, Cl. 254—190.
Bolton, Wilfred, ½ to A. W. Swann and Co. Ltd. Methods of producing warp knitted fabrics. 3,063,272, 11–13–62, Cl. 66—85.
Bolton, Wilfred, ½ to A. W. Swamm and Co. Ltd. Warp knitted fabric. 3,068,676, 12–18–62, Cl. 66—195.
Boltz, Paul T.: *See*—
Clark, Austin B. J., and Boltz. 3,043,137.
Bolyard, Charles C. Method of manufacturing sequin impregnated tissue paper. 3,055,797, 9–25–62, Cl. 162—181.
Bolz, Hans M., to Bodenseewerk Perkin-Elmer & Co., G.m.b.H. Spectroscope. 3,052,154, 9–4–62, Cl. 88—14.
Bolz, Hans M., to Bodenseewerk, Perkin-Elmer & Co., G.m.b.H. Null-type radiation analysis system. 3,062,088, 11–6–62, Cl. 88—14.
Bolz, Hans M., to Bodenseewerk Perkin Elmer und Co. G.m.b.H. Optical filter. 3,062,103, 11–6–62, Cl. 88—107.
Bomac Laboratories Inc.: *See*—
Scanzani, Robert M. 3,032,681.
Bomag Bopparder Maschinenbaugesellschaft m.b.H.: *See*—
Kaltenegger, Benno. 3,048,089.
Bomba, James S., N. M. Haller, and E. R. Kretzmer, to Bell Telephone Laboratories, Inc. Line tracing system. 3,050,-581, 8–21–62, Cl. 178—7.1.
Bombardier, Joseph A. Endless track vehicle. 3,023,824, 3–6–62, Cl. 180—9.64.
Bombardier, Joseph A. Machine for delimbing and cutting trees into logs. 3,029,848, 4–17–62, Cl. 144—3.
Bomm, Heinz, to Dorken & Mankel K.G., Firma. Hydraulic door keeper. 3,050,769, 8–28–62, Cl. 16—55.
Bommel, Hans E., and K. Dransfeld, to Bell Telephone Laboratories, Inc. Microwave ultrasonic delay line. 3,037,174, 5–29–62, Cl. 333—30.
Bomzer, Herbert W., to Sperry Rand Corp., Ford Instrument Co. Division. Projection system. 3,024,696, 3–13–62, Cl. 88—24.
Bonadiman, Joseph C. Broiling apparatus. 3,033,191, 5–8–62, Cl. 126—25.
Bonafide Mills, Inc.: *See*—
Slosberg, David K., and Nakonieczny. 3,017,714.
Bonami, Ernest, to Swift & Co. Method and apparatus for packaging food. 3,051,581, 8–28–62, Cl. 99—171.
Bonang, William E. Tethered ball game. 3,031,192, 4–24–62, Cl. 273—95.
Bonang, William E. Tethered ball game. 3,031,192, 4–24–62, Cl. 273—98.
Bonanno, Joseph L., to The Lionel Corporation. Toy railroad car with operating search light. Re. 25,295, 12–11–62, Cl. 46—226.
Bonanno, Joseph L., to The Lionel Corp. Microphone for sound dispatching station. 3,020,346, 2–6–62, Cl. 179—2.
Bonanno, Joseph L., to The Lionel Corp. Electrical control device. 3,022,445, 2–20–62, Cl. 317—40.

Bonanno, Joseph L., to The Lionel Corp. Socket for bi-post lamps. 3,032,738, 5–1–62, Cl. 339—155.

Bonanno, Joseph L., to The Lionel Corp. Toy atomic waste disposal car. 3,034,256, 5–15–62, Cl. 46—226.

Bonanno, Joseph L., to The Lionel Corp. Exploding toy vehicle. 3,037,772, 6–5–62, Cl. 273—102.1.

Bonanno, Joseph L., to The Lionel Corp. Magnetic socket device. 3,038,139, 6–5–62, Cl. 339—12.

Bonanno, Joseph L., to The Lionel Corp. Trackside accessories for toy railroads. 3,038,586, 6–12–62, Cl. 198—33.

Bonanno, Joseph L., to The Lionel Corp. Rear-view mirror. 3,045,551, 7–24–62, Cl. 88—98.

Bonanno, Joseph L., to The Lionel Corp. Alternating current electric motor. 3,058,016, 10–9–62, Cl. 310—23.

Bonanno, Joseph L., to The Lionel Corp. Unloading station mechanism. 3,070,247, 12–25–62, Cl. 214—146.5.

Bonas Bros. Ltd.: *See*—
Bonas, Harry G., and Arnold. 3,056,431.

Bonas, Harry G., and W. C. Arnold, to Bonas Bros. Ltd. Needle loom. 3,054,431, 9–18–62, Cl. 139—123.

Bonath, Klaus, F. Endter, D. A. C. De Rycke, J. A. Lewis, and A. Rippon, to Peter Spence & Sons Ltd., and Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Preparation of an alumina based catalyst. 3,069,335, 12–18–62, Cl. 204—96.

Bonazzi, Teresa R.: *See*—
Longiave, Carlo, Castell, and Croce. 3,032,544.

Boncher, Harry P., and W. A. Deringer, to A. O. Smith Corp. Cathodically protected structure and method of making same. 3,037,925, 6–5–62, Cl. 204—197.

Bond, Albert. Repair of upholstered furniture. 3,067,992, 12–11–62, Cl. 267—100.

Bond, Bethel, and J. A. South. Wet cell battery having depolarizing means. 3,043,897, 7–10–62, Cl. 136—83.

Bond, Donald C., to The Pure Oil Co. Geochemical process. 3,033,287, 5–8–62, Cl. 166—4.

Bond, Donald H.: *See*—
Bagwell, Marshall U., and Bond. 3,028,744.
Scott, John R., and Bond. 3,038,732.

Bond, Donald H., to The Texas Pipe Line Co. Capacitance probe for a pipe line. 3,025,464, 3–13–62, Cl. 324—61.

Bond, Douglas R., and C. E. Koch. Water heater protection. 3,063,432, 11–13–62, Cl. 122—504.

Bond, Elvin H., to Glen Raven Cotton Mills, Inc. Feeding regulator for textile fibers. 3,062,393, 11–6–62, Cl. 214—17.

Bond, George L., to International Business Machines Corp. Circuit for eliminating the effect of contact bounce. 3,059,-146, 10–16–62, Cl. 315—171.

Bond, Herbert M.: *See*—
Kurka, Kurt A., and Bond. 3,027,279.
Tomita, Jun, and Bond. 3,059,764.

Bond, Herbert M., and J. Tomita, to Minnesota Mining and Mfg. Co. Silicones. 3,057,469, 10–9–62, Cl. 206—47.

Bond, John H. Target for games. 3,023,002, 2–27–62, Cl. 273—102.2.

Bond, Norman J., and C. W. Hooper, to British Nylon Spinners Ltd. Apparatus for severing and sorting staple fibre bundles. 3,052,081, 11–6–62, Cl. 83—79.

Bond, Robert W., to North American Aviation, Inc. Automatic landing system. 3,031,662, 4–24–62, Cl. 343—108.

Bonde, Alfons A., and J. S. Di Pasquale, to Accurate Spring Mfg. Co. Loop-forming machine for springs. 3,032,076, 5–1–62, Cl. 140—103.

Bondion, Jean-Claude, and B. J. Petusseau, to Societe Nobel Bozel. Method of preparing glyoxal hydrate. 3,016,385, 1–9–62, Cl. 260—340.6.

Bondon, Lewis A. Coaxial cable with low effective dielectric constant and process of manufacture. 3,055,967, 9–25–62, Cl. 174—28.

Bonds, Albert, to Preformed Line Products Co. Apparatus and method for positioning a helical band. 3,049,858, 8–21–62, Cl. 57—55.

Bondurant, James E.: *See*—
Nelson, Earl W., Bondurant, and Marcot. 3,062,621.

Bondurant, John W. Uniform speed changer or transmission. 3,021,717, 2–20–62, Cl. 74—217.

Bondy, Herbert F., and J. Gumb, to Conlite and Chemical Products Ltd. Aryl phosphates. 3,022,331, 2–20–62, Cl. 260—461.

Bone, Arnold R., to Dennison Mfg. Co. Indicia applying machine. 3,036,520, 5–29–62, Cl. 101—78.

Bone, Bertram T., Jr., to Phillips Petroleum Co. Method and apparatus for treating distillation overhead. 3,024,-171, 3–6–62, Cl. 202—66.

Bonel, Robert, to Comptoir de l'Industrie Cotonniere Etablissements Boussac. Stop motion for textile materials. 3,063,229, 11–13–62, Cl. 57—84.

Bonewitz Chemicals, Inc.: *See*—
Bonewitz, Paul W. 3,046,232.

Bonewitz, Paul W., to Bonewitz Chemicals, Inc. Method of producing a chelating caustic composition. 3,046,232, 7–24–62, Cl. 252—156.

Bonfanti, Silvio. Rotary floor polisher. 3,022,529, 2–27–62, Cl. 15—49.

Bonfield, James P. Child restrainer for vehicles. 3,054,642, 9–18–62, Cl. 297—390.

Bonfiglio, Charles P., to General Motors Corp. Windshield wiper arm attachment. 3,041,093, 6–26–62, Cl. 287—53.

Bongartz, Hans: *See*—
Steinkemper, Bernhard, Weidenhaupt, and Bongartz. 3,048,922.

Bongartz, Roy C.: *See*—
Renshaw, William G., Bongartz, and Beigay. 3,019,050.

Bongiovanni, John C., and R. O. Peterson, to The Osborn Mfg. Co. Reinforced brush construction. 3,056,986, 10–9–62, Cl. 15—182.

Bonham, Carl P., P. E. Cope, and W. J. Powell, to The Procter & Gamble Co. Premium holder. 3,067,867, 12–11–62, Cl. 206—47.

Bonhomme, Francois R. Liquid level indicators. 3,017,771, 1–23–62, Cl. 73—290.

Bonhomme, Francois R., to Curtiss-Wright Corp. Machines for manufacturing sockets for use in cooperation with plug-in members. 3,023,789, 3–6–62, Cl. 140—93.

Bonhomme, Francois R., to Curtiss-Wright Corp. Interlocked electrical connectors. 3,042,895, 7–3–62, Cl. 339—176.

Bonikowski, Zbigniew: *See*—
Graneau, Peter, and Bonikowski. 3,018,978.

Bonino, Cesare: *See*—
Chain, Ernst B., Bonino, and Tonolo. 3,038,840.
Chain, Ernst B., Bonino, and Tonolo. 3,060,104.

Bonisch, Josef, H. Goepfert, and W. Planert, to VEB Kamera- und Kinowerke Dresden. Motion picture camera and attachment therefor. 3,017,804, 1–23–62, Cl. 88—17.

Bonitz, Eckard: *See*—
Ziegler, Karl, Gellert, and Bonitz. 3,015,669.

Bonkowski, Teofil L. Combined beverage carrier and cap remover. 3,055,541, 9–25–62, Cl. 220—103.

Bonkowski, Teofil L., ½ to F. R. Barnhisel, and ½ to Brake & Automotive Sales. Bake lining grinder. 3,025,645, 3–20–62, Cl. 51—105.

Bonn, Theodore, and N. S. Prywes, to Sperry Rand Corp. Electrical switching circuits. 3,047,231, 7–31–62, Cl. 235—176.

Bonn, Theodore H., to Sperry Rand Corp. Regenerative actuator drive circuits. 3,018,419, 1–23–62, Cl. 317—148.5.

Bonn, Theodore H., and J. P. Eckert, Jr., to Sperry Rand Corp. Signal translating device. 3,041,468, 6–26–62, Cl. 307—88.

Bonnafe, Oliver W., to The Lapointe Machine Tool Co. Horizontal broaching machine. 3,046,846, 7–31–62, Cl. 90—92.

Bonnafous, Marie B.: *See*—
Bonnafous, Paul. 3,017,845.
Bonnafous, Paul. 3,045,280.

Bonnafous, Paul, 20% to T. P. Mahoney, 26% to M. B. Bonnafous, and 26% to Y. Bonnafous. Pellet mill. 3,017,-845, 1–23–62, Cl. 107—14.

Bonnafous, Paul, 20% to T. P. Mahoney, 26% to M. B. Bonnafous, and 26% to Y. Bonnafous. Pellet mill and feeder therefor. 3,045,280, 7–24–62, Cl. 18—12.

Bonnafous, Yvonne: *See*—
Bonnafous, Paul. 3,017,845.
Bonnafous, Paul. 3,045,280.

Bonnell, Charles R., to Minneapolis-Honeywell Regulator Co. Two axis accelerometer. 3,023,626, 3–6–62, Cl. 73—517.

Bonnell, Robert P., J. V. Ramsay, and F. A. T. Dixon, to The Commonwealth of Australia, care of the Secretary of the Department of Supply. Wide angle lens systems. 3,068,-752, 12–18–62, Cl. 88—57.

Bonner, Arthur L., to Bell Telephone Laboratories, Inc. Negative impedance repeaters. 3,042,759, 7–3–62, Cl. 179—170.

Bonner, James W. to American Iron & Machine Works Co., Inc. Valve pin type releasable lock for hookwall packers. 3,049,177, 8–14–62, Cl. 166—119.

Bonner, James W. Well packer. 3,054,453, 9–18–62, Cl. 166—138.

Bonner, James W., ½ to Lowrey Oil Tools, Inc. Well apparatus. 3,054,451, 9–18–62, Cl. 166—123.

Bonner, John J., to Philco Corp. Sealing means. 3,063,280, 11–13–62, Cl. 68—23.

Bonner, Lyman G.: *See*—
Blair, David R., Jr., Bonner, Coleman, and Ryan. 3,048,-103.

Bonner, Lyman G., to Hercules Powder Co. Propellent charge. 3,033,117, 5–8–62, Cl. 102—98.

Bonner, Renzo V. Fluid pressure actuator. 3,044,764, 7–17–62, Cl. 268—34.

Bonner, Willard H., Jr., to E. I. du Pont de Nemours and Co. Aromatic polyketones and preparation thereof. 3,065,205, 11–20–62, Cl. 260—63.

Bonner, William J., to Franklin Research and Development Corp. Extruder head for hollow products. 3,026,565, 3–27–62, Cl. 18—14.

Bonner, William J., to Crompton & Knowles Corp. Manifold for producing endless sheet of a gaseous medium at uniform volumetric flow rate. 3,064,905, 11–20–62, Cl. 239—590.

Bonness, Quentin L.: *See*—
Green, David J., Van Alstyne, Moore, Sanders, Bonness, Noland, and Olson. 3,031,658.

Bonnet, Georges, and R. Gariod, to Commissariat a l'Energie Atomique. Magnetic demagnetizing devices. 3,051,874, 8–28–62, Cl. 317—157.5.

Bonnet, Georges, and J. Petit, to Commissariat a l'Energie Atomique. Process of operation of and window for a high-activity cell. 3,064,967, 11–20–62, Cl. 268—115.

Bonnet, Jacques: *See*—
Neukomm, Serge, and Bonnet. 3,039,475.

Bonnet, Louis. Prefabricated packing-cases for dates and others. 3,042,247, 7–3–62, Cl. 220—44.

Bonnette, John S., deceased; M. Bonnette, executrix. Radiator test plug. 3,054,427, 9–18–62, Cl. 138—90.

Bonnette, Mary: *See*—
Bonnette, John S. 3,054,427.
Bonnevie-Svendsen, Per. Device for use when sweeping smoke tubes, boilers and the like. 3,046,589, 7–31–62, Cl. 15—162.
Bonnin, Bertha: *See*—
Bonnin, Fred D. and B. 3,040,917.
Bonnin, Fred D., deceased; (by B. Bonnin, administratrix). Load transporting vehicle. 3,040,917, 6–26–62, Cl. 214—75.
Bonnington, Alexander D.: *See*—
Brice, Herbert J., Jr., Bonnington, and McKenzie. 3,061,-543.
Bono, Luigi, to Necchi S.p.A. Rotary hook for sewing machines. 3,016,032, 1–9–62, Cl. 112—230.
Bono, Luigi, to Necchi S.p.A. Feed device for a sewing-machine. 3,019,750, 2–6–62, Cl. 112—215.
Bono, Luigi, to Vittorio Necchi, S.p.A. Button-hole making device, applied to sewing machines. 3,033,138, 5–8–62, Cl. 112—158.
Bono, Luigi, to Necchi Societa per Azioni. Drive connection between a drive shaft and an interchangeable driven member, especially for the drive shaft and driven member of a sewing machine. 3,054,368, 9–18–62, Cl. 112—220.
Bonomo Joseph, P. De Iorio, and J. Coffaro; said Bonomo and said Coffaro assors. to said De Iorio. Yeast raised dough mixing method. 3,031,980, 5–1–62, Cl. 107—54.
Bonsall, Frank, and B. S. Massey, to Bristol Siddeley Engines Ltd. Flame tubes for use in combustion systems of gas turbine engines. 3,018,624, 1–30–62, Cl. 60—39.37.
Bonsch, Francois R., to Block & Anderson Ltd. Rotary machines for selective duplicating or printing. 3,035,517, 5–22–62, Cl. 101—132.5.
Bonsels, Wilhelm H.: *See*—
Pohl, Franz A., and Bonsels. 3,059,996.
Bonsignore, Charles: *See*—
Troll, William A., and Bonsignore. 3,044,660.
Bonta, Joseph A., to Zimmer Mfg. Co. Power driven surgical knife. 3,035,581, 5–22–62, Cl. 128—305.
Bontillette, Estephan D.: *See*—
Estephanian, Estephan D., Packard, Clouthier, and Bontillette. 3,020,740.
Bonvicini, Alberto: *See*—
Cappuccio, Vittorio, Monaci, and Bonvicini. 3,022,191.
Cernia, Enrico, and Bonvicini. 3,036,026.
Bonvicini, Alberto, to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Printing ink composition and process for producing the same. 3,037,949, 6–5–62, Cl. 260—4.
Bonvicini, Alberto, and C. Caldo, to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Processes for improving the dyeability of textile fibers, films, and moulded articles. 3,037,835, 6–5–62, Cl. 8—55.
Bonvicini, Alberto, and L. Lucchetti, to Montecatini Societa Generale per l'Industria. Mineraria e Chimica. Printing ink composition containing polypropylene, and process for producing same. 3,043,787, 7–10–62, Cl. 260—4.
Bonwit, Stuart E., to ACF Industries, Inc. Aural radar signaling circuit. 3,068,389, 12–18–62, Cl. 35—10.4.
Bonwitt, Wilhelm F., and H. P. Dupre, to Burndy Corp. Socket connection. 3,065,440, 11–20–62, Cl. 339—18.
Bonza, Louis F., A. J. Bryne, and B. W. Smith, to Lockheed Aircraft Corp. Methods for forming sheet plastics. 3,041,-668, 7–3–62, Cl. 18—19.
Bonzon, Maurice, to Societe des Forges et Ateliers du Creusat. Auxiliary elevator brake for adjustment of gage level. 3,051,266, 8–28–62, Cl. 187—28.
Boode, Carl N.: *See*—
Bourns, Marlan E., Boode, and O'Brian. 3,020,505.
Bourns, Marlan E., Boode, and O'Brian. 3,069,648.
Booke, Kenneth E., ¼ to F. Carson. Torsionally resilient drive coupling. 3,025,724, 3–20–62, Cl. 74—752.
Booker, Clyde A., Jr.: *See*—
Burt, Donald A., and Booker. 3,069,558.
Booker, Robert J., and H. G. Mullett, to Bradley Washfountain Co. Shower manifold. 3,045,250, 7–24–62, Cl. 4—145.
Bookhart, Edward A. Work holder and router carriage. 3,065,776, 11–27–62, Cl. 144—136.
Bookman, Harry. Reversible drive mechanism for motor vehicle. 3,044,568, 7–17–62, Cl. 180—70.
Bookout, Charles C., S. W. Sattavara, and P. E. Taylor, to Ford Motor Co. Fluid pressure system. 3,023,579, 3–6–62, Cl. 60—51.
Bookout, Charles C., and P. E. Taylor, to Ford Motor Co. Automatic speed control system for an automotive vehicle. 3,065,813, 11–27–62, Cl. 180—82.1.
Bookwalter, William H., 50% to J. G. Wasson. Alarm device for rotating shafts. 3,039,426, 6–19–62, Cl. 116—60.
Boomkens, Hans, to Eduard Winter Motoren- und Apparatebau. Loading winch with two drums, especially for ships. 3,016,228, 1–9–62, Cl. 254—185.
Boon, Cornelis M.: *See*—
De Miranda, Jacobus R., Boon, and Deliege. 3,020,488.
Boon, Simon A.: *See*—
Van Bergen, Johannes C., Laqueuille, and Boon. 3,047,-184.
Boone, James L., to United States Borax & Chemical Corp. Novel diketotriazaborinanes. 3,060,234, 10–23–62, Cl. 260—551.
Boone, James L., to United States Borax & Chemical Corp. Heterocyclic organoboron compounds. 3,062,880, 11–6–62, Cl. 260—551.
Boone, Salomon: *See*—
Bügel, Roelof D., and Boone. 3,015,759.
Boone, Wallace D.: *See*—
Shepherd, Raymond P., and Boone. 3,045,721.
Boone, Wallace D., and A. F. Briede, to Dover Corp. Automatic dispensing nozzle. 3,042,084, 7–3–62, Cl. 141—225.
Boonshaft, Julius C., and E. D. Haigler, to Fischer & Porter Co. Pneumatic transmitter and receiver. 3,022,800, 2–27–62, Cl. 137—790.
Booret, Norman W., to Vickers-Armstrongs (Aircraft) Ltd. Aeroplane having wings adjustable in sweep. 3,023,983, 3–6–62, Cl. 244—46.
Boorujy, Salem, to White Filter Sales Co. Apparatus for filtering liquid. 3,037,635, 6–5–62, Cl. 210—330.
Boose, Emery F., to General Electric Co. Phase component eliminator. 3,047,815, 7–31–62, Cl. 330—86.
Boot, Donald J., to General Electric Co. Ammonium halide stabilized organopolysiloxanes. 3,057,821, 10–9–62, Cl. 260—46.5.
Booth, Albert N.: *See*—
Bickoff, Emanuel M., Livingston, and Booth. 3,027,382.
Booth, Archibald A. K., Jr., and J. J. Burgmeister, to American Metal Climax, Inc. Method of producing copper-sulfur alloys. 3,063,828, 11–13–62 ,Cl. 75—76.
Booth, Cyril, C. S. Hedley, and W. C. Gilpin, to The British Petroleum Co. Ltd. Refractory materials. 3,037,049, 12–4–62, Cl. 106—62.
Booth, Eugene T., Jr., R. B. Pontius, B. A. Jacobsohn, and C. B. Slade, to United States of America, Atomic Energy Commission. Condensation can. 3,024,009, 3–6–62, Cl. 257—303.
Booth Fisheries Corp.: *See*—
Ruppel, Albert J. 3,049,890.
Booth Grant Co., to Radio Corp. of America. Parallel binary adder. 3,017,099, 1–16–62, Cl. 235—175.
Booth, Harvey J., R. P. Ernest, and J. W. Fostey, to Ford Motor Co. Bolting arrangement for reciprocating machinery. 3,059,623, 10–23–62, Cl. 121—194.
Booth, John S. Moisture controlled refrigerator openings. 3,025,681, 3–20–62, Cl. 62—248.
Booth, Joseph H., and L. W. Chubb, Jr., to Polaroid Corp. Photographic apparatus. Re. 25,167, 5–8–62, Cl. 95—13.
Booth, Joseph H., and M. Parrish, Jr., to Polaroid Corp. Photographic apparatus. 3,045,569, 7–24–62, Cl. 95—10.
Booth, Richard H.: *See*—
Ansell, Sidney C., Booth, Brown, Franklin, and Rayward. 3,056,916.
Booth, Richard H., and R. E. Spencer, to Electric & Musical Industries Ltd. Data-handling apparatus. 3,033,458, 5–8–62, Cl. 235—187.
Booth, Richard H., and A. T. MacDonald, to Electric & Musical Industries Ltd. Trigonometric function generators. 3,042,307, 7–3–62, Cl. 235—186.
Booth, Richard R., to International Business Machines Corp. Non-destructive read out ferrite memory element. 3,023,-400, 2–27–62, Cl. 340—174.
Booth, Richard R., to International Business Machines Corp. Magnetic core device. 3,056,117, 9–25–62, Cl. 340—174.
Booth, Robert B., to American Cyanamid Co. Protection of mineral surfaces against spalling. 3,069,293, 12–18–62, Cl. 117—100.
Booth, Robert E.: *See*—
Beauchamp, William D., Booth, and Degginger. 3,016,404.
Booth, Russell N., to Minneapolis-Honeywell Regulator Co. Sheet metal assembly. 3,054,485, 9–18–62, Cl. 189—36.
Booth, Russell N., and M. E. Russell, to Minneapolis-Honeywell Regulator Co. Simultaneous actuator for snap switches. 3,050,600, 8–21–62, Cl. 200—81.4.
Booth, Seth W., J. F. Toomey, and E. M. Brown. Magnetic firing control mechanism for a mine. 3,017,833, 1–23–62, Cl. 102—18.
Booth, Sterling R.: *See*—
Jacobson, Wayne D., and Booth. 3,057,436.
Booth, Thomas R.: *See*—
Pearce, Edwin S., Taylor, and Booth. 3,048,414.
Booth, Thomas R., to Railway Service and Supply Corp. Railway car journal box. 3,055,715, 9–25–62, Cl. 308—88.
Booth, Weldon S., and A. J. Coakley, to Contact Sheeting, Inc. Underground sheeting methods. 3,068,656, 12–18–62, Cl. 61—41.
Booth, William M., to Welded Products Co. Egg washing apparatus and method. 3,041,212, 6–26–62, Cl. 134—21.
Boothe, James H.: *See*—
Hlavka, Joseph J., and Boothe. 3,036,129.
Boothe, Kenneth W. Adjustable floater for spectacles. 3,016,796, 1–16–62, Cl. 88—41.
Boothroyd, Brian: *See*—
Fantes, Karl H., and Boothroyd. 3,070,505.
Boothroyd, Howard W.: *See*—
Hayner, Paul F., Thompson, Walker, Pfeifer, Campman, and Boothroyd. 3,026,638.
Boothroyd, Wilson P., to Philco Corp. Beam registration in striped color tube. 3,068,317, 12–11–62, Cl. 178—5.4.
Boots Mfg. Co., Inc.: *See*—
Jourdan, Sylvester W. 3,034,612.

Boots Pure Drug Co. Ltd.: *See*—
Godson, David H., Leafe, Lush, and Stevenson. 3,069,-429.
Oxley, Peter, Bristow, Housley, Woolfe, and Wilmshurst. 3,028,386.
Oxley, Peter, Woolfe, Bristow, Fraser, Williams, and Wilmshurst. 3,032,555.

Booty, Raymond G., to American Marietta Co. Amine modified low molecular weight urea formaldehyde condensation product and process of preparing same. 3,030,324, 4–17–62, Cl. 260—29.4.

Bootz, Willis P.: *See*—
Crooks, Milton A. 3,062,476.

Bopf, Edward C., to Deere & Co. Crop dryer. 3,040,443, 6–26–62, Cl. 34—174.

Bopp, Cecil W., to Bopp Mfg., Inc. Pedestal structure for load-handling equipment. 3,032,213, 5–1–62, Cl. 214—75.

Bopp, Edward O., and E. F. Taylor, to E. K. Orr. Shaft hook and mounting for vertical blinds. 3,028,910, 4–10–62, Cl. 160—172.

Bopp, Edward O., and E. Taylor, to E. K. Orr. Louver type window blind. 3,061,005, 10–30–62, Cl. 160—176.

Bopp Mfg., Inc.: *See*—
Bopp, Cecil W. 3,032,213.

Bopst, John H., III. Traction device. 3,053,302, 9–11–62, Cl. 152—226.

Borchard, Edwin H., to Bell Telephone Laboratories, Inc. Connector assembly. 3,016,512, 1–9–62, Cl. 339—217.

Borchert, Peter J., to Miles Laboratories, Inc. Dialdehyde starch-melamine derivatives. 3,021,329, 2–13–62, Cl. 260—249.6.

Borchert, Robert C.: *See*—
Hartung, Homer A., and Borchert. 3,037,962.

Borci, Renato F. Stock market playing game. 3,050,303, 8–21–62, Cl. 273—1.

Borck, Charles A., and K. W. Knapp, to Empire Devices, Inc. Radio power density probe. 3,056,925, 10–2–62, Cl. 250—1.

Borck, Charles A., and K. W. Knapp, to Empire Devices, Inc. Microwave power density probe. 3,056,926, 10–2–62, Cl. 325—67.

Borck, Chester E.: *See*—
Petersen, Norman L. 3,028,821.

Borcrert, Peter J., to Miles Laboratories, Inc. Mixed esters of citric acid and polymers thereof. 3,025,271, 3–13–62, Cl. 260—78.3.

Bordie, Betty. Package construction. 3,065,847, 11–27–62, Cl. 206—45.19.

Borden Co., The: *See*—
Anderson, David W., Jr., and McDonnell. 3,061,512.
Arond, Lester H., Salem, Wechsler, and Makower. 3,017,-396.
Bauer, Robert E., and Lawrence. 3,042,273.
Dickstein, Jack, and Hoegerle. 3,042,710.
Duncan, Robert E., and Erekson. 3,033,132.
Erekson, Arthur B. 3,035,753.
Hale, James F., and Smith. 3,028,242.
Hale, James F., and Smith. 3,054,675.
Halpern, Benjamin D. 3,069,400.
Halpern, Benjamin D., and Krueger. 3,052,652.
Klaessig, Henry, Pennie, and Clay. 3,018,185.
Kline, Milton W., Dean, and Loshaek. 3,069,390.
Metcalf, Benson D. 3,018,755.
Mook, Donald E., Williams, Close, and Hankinson. 3,035,922.
Salzberg, Harold K. 3,017,826.
Salzberg, Harold K., and Simonds. 3,018,280.
Tsou, Kwan C. 3,028,397.
Tsou, Kwan C., and Mihailovitch. 3,069,407.
Tsou, Kwan C., Sandler, and Astrup. 3,069,459.
Wechsler, Harry, and Beaudet. 3,053,820.
Winzerd, Winston H. 3,040,018.
Winzerd, Winston H., Bauer, and Damisch. 3,036,918.
Zweig, Samuel. 3,017,670.

Borden, Dean C., to Bell Telephone Laboratories, Inc. Automatic amplitude control and pulse shaping circuit. 3,025,-413, 3–13–62, Cl. 307—88.5.

Borden, Donald A., to The Bauer Bros., Co. Flow retarding grinding plate. 3,040,997, 6–26–62, Cl. 241—260

Borden, John V. Stabilized turbine for dental handpiece. 3,055,112, 9–25–62, Cl. 32—27.

Borden, John V. Dental handpiece construction. 3,061,930, 11–6–62, Cl. 32—27.

Borden, John V. Control unit for dental handpieces. 3,062,-326, 11–6–62, Cl. 184—55.

Borden, Joseph H., to Toledo Scale Corp. Elevator control. 3,051,267, Cl. 187—29.

Borden, Joseph H., to Toledo Scale Corp. Door safety control. 3,063,517, 11–13–62, Cl. 187—52.

Borden, Joseph L., to The Perkin-Elmer Corp. Bearing. 3,022,124, 2–20–62, Cl. 308—193.

Border, Richard E.: *See*—
Stimson, Allen G., Eagle, Ferry, and Border. 3,033,093.

Border, William R., Jr. Boring bar jig with angle gauge. 3,034,380, 5–15–62, Cl. 77—2.

Borders, Donald B.: *See*—
Billman, John H., and Borders. 3,048,585.

Bordini, Giovanni. Method and apparatus for motion conversion and transmission. 3,067,728, 12–11–62, Cl. 121—120.

Bordt, Frederick J., to United States of America, Army. Hydraulic turbine drive system. 3,034,303, 5–15–62, Cl. 60—102.

Borel, André: *See*—
Seiller, Philippe, and Borel. 3,034,392.

Borel, Eric A., to Hercules Powder Co. Biosynthesis of α-ketoglutaric acid. 3,022,223, 2–20–62, Cl. 195—29.

Borel, Eric A., to Hercules Powder Co. Making L-glutamic acid alone or a mixture of L-glutamic acid and α-ketoglutaric acid. 3,022,224, 2–20–62, Cl. 195—29.

Borell, George L. Indicator. 3,049,668, 8–14–62, Cl. 324—132.

Borell, James J., to Iorio Instruments, Inc. Musical Instrument. Re. 25,278, 10–30–62, Cl. 84—171.

Boren, William M.: *See*—
Franklin, Robert K., Boren, Oliphant, and Crossman. 3,023,618.

Boren, William M., R. K. Franklin, and R. G. Oliphant; said Boren and said Oliphant assors. to Rolo Mfg. Co. Metering separator. 3,027,763, 4–3–62, Cl. 73—200.

Boreen, Henry L., to Vector Mfg. Co., Inc. Frequency modulated oscillator. 3,041,553, 6–26–62, Cl. 332—16.

Borelius, Sven J.: *See*—
Lundgren, Bengt A. R., and Borelius. 3,047,908.

Borenstein Benjamin, to Nopco Chemical Co. Stabilized carotene compositions. 3,039,877, 6–19–62, Cl. 99—81.

Boretti, Giulia: *See*—
Di Marco, Aurelio, Boretti, Barchielli, Spalla, Cattapan, and Bertazzoli. 3,026,316.

Borg, Charlie. Quick release, two-way locking mechanism for an adjustable wrench. 3,039,338, 6–19–62, Cl. 81—134.

Borg, Edward M. Extracting machine for use in fish canning. 3,028,969, 4–10–62, Cl. 210—330.

Borg Holding A.G.: *See*—
Kohler, Siegfried. 3,036,559.

Borg, S. Edward: *See*—
Swainson, Edward L., and Borg. 3,046,797.

Borg-Warner Corp.: *See*—
Anderson, J Edward C., and Haberland. 3,026,809.
Anderson, James H. 3,025,880.
Anderson, James H., and Aughenbaugh. 3,041,857.
Babniuk, Eugene. 3,033,232.
Becker, Sylvan J., and Settimi. 3,017,977.
Behrens, Curtis E. 3,041,980.
Blum, Robert D. 3,024,008.
Boedigheimer, Raymond J., and Zanoni. 3,064,777.
Boehmer, Andrew P., and Jaremus. 3,063,251.
Boss, Harold O. 3,046,787.
Bougie, Romeo, and Shaw. 3,064,442.
Bowers, Roy C., and Boedigheimer. 3,037,599.
Burtnett, Everett R. 3,020,781.
Calvert, William C. 3,046,239.
Carlson, Robert K., and Schwemer. 3,029,167.
Coolidge, John E., and Hillenbrook. 3,052,833.
Curran, Robert J. 3,064,776.
Dahl, Einar S. 3,064,636.
Divine, William H., and Harnish. 3,028,735.
Diuggs, Gerald S. 3,016,837.
Ferris, Ernest A., and Curran. 3,019,873.
Ferris, Ernest A., and Wade. 3,049,205.
Ferris, Ernest A., and Welch. 3,055,474.
Fisher, Harold R. 3,026,862.
Flinn, George E. 3,023,632.
Flinn, George E. 3,051,017.
Fulton, Bertram A. 3,046,750.
Gamson, Bernard W., and Kuehner. 3,049,399.
Geibel, Emmett H. 3,033,332.
Gerhardt, Andrew H., and Waldrop. 3,022,655.
Grabowski Thomas S. 3,049,505.
Grabowski, Thomas S., and Irvin. 3,053,800.
Green, John A. 3,064,340.
Harnish, James R. 3,036,441.
Harnish, James R. 3,041,849.
Harter, Donald G., Haley, Boehmer, and Jaremus. 3,041,-Harting, Glen R. 3,054,490.
Hegvi, Moses. 3,022,011.
Holmes, Paul J. 3,067,615.
Hullinger, Golden E. 3,024,051.
Irvin, Howard H. 3,065,122.
Johnson, Horace A. 3,017,206.
Jones, Frederic C. 3,028,457.
Jones, Frederic C., and May. 3,037,097.
Judkins, Edwin R. 3,041,974.
Kirk, Robert B. 3,023,059.
Knerr, Carl J., and Harlow. 3,068,679.
Knerr, Carl J., and Harlow. 3,068,680.
Knerr, Carl J., and Waldrop. 3,057,218.
Kubiak, Emil A. 3,024,027.
Kubiak, Emil A., and Herberth. 3,026,810.
Laster, Walter R. 3,039,183.
Lauck, John A. 3,068,795.
Lock, Thomas. 3,068,799.
Lockett, James H. 3,057,302.
Lysett, Daniel W. 3,061,922.
Mamo, Anthony C. 3,023,583.
Mamo, Anthony C. 3,027,721.
Mamo, Anthony C. 3,049,027.
Mamo, Anthony C., and Pietraszewski. 3,058,427.

Marsh, David C. 3,029,081.

May, Charles W., and Halberg. 3,020,776.

McAninch, Herbert A., and Tharpe. 3,053,103.

McGehee, Clyde, Newton, and Soling. 3,054,274.

Meddick, Lorrain D. 3,021,784.

Meddick, Lorrain D. 3,027,838.

Borg-Warner Corp.: *See*—Continued
Montgomery, Byron D. 3,024,876.
Nickell, Claude H., and Zeidler. 3,059,730.
Nicolaus, Norbert. 3,068,893.
Nielsen, Milton R. 3,058,560.
Nissley, Samuel B. 3,039,677.
Palm, James W. 3,017,210.
Palmer, Charles G. 3,062,443.
Polomski, John B. 3,017,788.
Red, Harold V. 3,017,003.
Rice, Virgil C. 3,051,157.
Richards, Elmer A. 3,032,157.
Richards, Elmer A., and Snoy. 3,064,780.
Rutherford, Russell G. 3,040,418.
Schmidt, Edward M. 3,037,158.
Seavey, Gordon C. 3,038,498.
847.
Shapiro, Haskell. 3,019,641.
Shaw, Lyle F. 3,041,844.
Smirl, Richard L. 3,061,062.
Smirl, Richard L. 3,068,980.
Snoy, Joseph B. and F. J. 3,058,373.
Talamonti, John. 3,049,356.
Talbott, William G. 3,036,682.
Tamny, Simon. 3,055,698.
Taylor, Raymond G., Jr. 3,023,036.
Tracy, Herbert E. 3,042,414.
Tracy, Herbert E. 3,015,506.
Waldrop, Charles R. 3,020,741.
Wayman, Robert W 3,063,308.
Weisel, Zenas V. 3,033,154.
Wells, James G., and Golz. 3,028,211.
Westell, John R. 3,047,753.
Whitmore, Harland W. 3,067,588.
Zeidler, Reinhold C. 3,024,735.

Borgel, Bernard F., to Erie Mining Co. Draft control system for shaft-type furnaces. 3,021,126, 2–13–62, Cl. 263—29.

Borger, Jack W.: *See*—
Green, Richard J., and Borger. 3,069,208.

Borger, Jack W., to Pullman Inc. Container for pulverant material and method and apparatus for unloading same. 3,069,206, 12–18–62, Cl. 302—52.

Borger, Jack W., and F. A. Vander Linden. Apparatus for unloading bulk materials from hopper cars. 3,069,207, 12–18–62, Cl. 302—52.

Borgersen, Roland and R. H., and W. L. Jobe, to King Tester Corp. Apparatus for measuring hardness. 3,029,631, 4–17–62, Cl. 73—81.

Borgersen, Roy H.: *See*—
Borgersen, Roland and R. H., and Jobe. 3,029,631.

Borges, Daniel J.: *See*—
Bertoglio, Peter J., and Borges. 3,034,674.

Borghetti, Joseph C., to Microwave Development Laboratories, Inc. Inline waveguide to coaxial transition. 3,023,382, 2–27–62, Cl. 333—34.

Borgo, Domenico L. Applied record spacing disc. 3,051,496, 8–28–62, Cl. 274—42.

Borgmann, Ernst: *See*—
Becker, Gerhard, and Borgmann. 3,049,288.

Boring, John E. Cap firing whip. 3,032,925, 5–8–62, Cl. 46—176.

Boris, Sonia nee Jokelson, to Societe Technique de Pulverisation (par Abreviation Step). Metering sprayer device. 3,043,524, 7–10–62, Cl. 239—350.

Bork, Adam. Toaster accessory. 3,046,870, 7–31–62, Cl. 99—402.

Bork, Frank. Flue arrangement. 3,019,000, 1–30–62, Cl. 257—164.

Bork, Hugo W., to Skil Corp. Shrub and garden shear. 3,049,802, 8–21–62, Cl. 30—197.

Bork, Karl-Heinz, K. Brückner, H.-J. Mannhardt, and F. Von Werder, to E. Merck Aktiengesellschaft. 16-methylen-steroids. 3,064,015, 11–13–62, Cl. 260—397.45.

Borkoskoi, Leon P.: *See*—
Bartos, John, Borkoskoi, Doughman, Ferraris, and Moughty. 3,047,897.
Belicka, Michael E., Borkoski, and Doughman. 3,039,130.
Belicka, Michael E., Borkoski, and Ferraris. 3,039,129.

Borland, Loren R. Perambulator for invalids. 3,044,797, 7–17–62, Cl. 280—87.02.

Borman, August H., Jr., F. R. Cheek, M. H. Scheiter, and W. B. Herndon, to General Motors Corp. Controlled coupling automatic transmissions. 3,048,055, 8–7–62, Cl. 74—645.

Born, Klaus: *See*—
Sennewald, Kurt, Born, Erpenbach, and Dobek. 3,022,332.

Born, Lester R., Jr., to Rockwell Mfg. Co. Planetary gear pulley and control means. 3,055,236, 9–25–62, Cl. 74—785.

Born, Robert E., to American Well Works. Self-adjusting variable orifice spray nozzle. 3,066,871, 12–4–62, Cl. 239—254.

Born, William E. Collapsible cart. 3,035,847, 5–22–62, Cl. 280—36.

Born, William F.: *See*—
Mullen, John H., and Born. 3,018,338.
Mullen, John H., and Born. 3,027,441.
Rimmer, Robert V., and Born. 3,035,859.

Borneman, Christian H., to General Electric Co. Drill. 3,028,773, 4–10–62, Cl. 77—70.

Borneman, Christian H., to General Electric Co. Device and process for machining operations. 3,050,027, 8–21–62, Cl. 116—114.

Borneman, Edmond H., and A. Meyerhoff, to Westinghouse Electric Corp. Use of printed circuit board for Hall generators. 3,030,559, 4–17–62, Cl. 317—234.

Bornemann, Dieter, M. Dohr, G. Renner, and C. Ziegler, to Henkel & Cie, G.m.b.H. Process for the continuous production of acrylic acid amide. 3,023,242, 2–27–62, Cl. 260—561.

Bornemann, William C., to Liftron Corp. Door opener. 3,021,131, 2–13–62, Cl. 268—59.

Bornemann, William C. Apparatus for coating recessed surface areas. 3,064,620, 11–20–62, Cl. 118—3.

Bornemann, William C. Process for coating recessed surface areas. 3,065,100, 11–20–62, Cl. 117—37.

Bornemann, William J., W. H. Senior, and F. J. Wochner, to General Dynamics Corp. Master pattern printer. 3,065,681, 11–27–62, Cl. 95—1.

Bornfleth, Marcus H.: *See*—
Fritz, Earle, Bornfleth, and Becktel. 3,028,403.

Bornhorst, Kenneth F., to Globe Industries, Inc. Flight control apparatus. 3,054,581, 9–18–62, Cl. 244—77.

Bornstein, Amalia: *See*—
Bornstein, Joseph, L. and A. 3,022,515.

Bornstein, Joseph, L. and A. Simulated bow tie. 3,022,515, 2–27–62, Cl. 2—151.

Bornstein, Joseph, M. S. Blum, and J. J. Pratt, Jr., to United States of America, Army. Insecticidal bis-halophenyl di-fluoroaliphatic compounds. 3,021,358, 2–13–62, Cl. 260—488.

Bornstein, Leonard: *See*—
Bornstein, Joseph, L. and A. 3,022,515.

Bornzin, James H., to International Harvester Co. Hay crushing roll construction. 3,043,073, 7–10–62, Cl. 56—1.

Boro, Jerry. Plastic utility drawer. 3,032,381, 5–1–62, Cl. 312—111.

Borodin, Daniel J., to Wagner Brothers Inc. Work loader. 3,051,288, 8–28–62 Cl. 198—20.

Boron, Frank J., to American Brake Shoe Co. Furnace divider plates. 3,064,962, 11–20 62, Cl. 266—25.

Boroson, Norman H., to Thiokol Chemical Corp. Control system. 3,065,739, 11–27–62, Cl. 121—47.

Borotra, Henriette, to Societe Le Lit Tous Soins. Mattress. 3,023,429, 2–6–62, Cl. 5—260.

Borr, Mitchell, and K. E. MacPhee, to United States Rubber Co. Production of rigid foamed polyesterurethane plastics. 3,018,256, 1–23–62, Cl. 260—2.5.

Borroughs Mfg. Co.: *See*—
Haag, Theodore T. 3,023,068.

Borrow, Charles J., to Aerojet-General Corp. Ring clamp compressor. 3,062,503, 11–6–62, Cl. 254—79.

Borsboom, Albertus C. H., to Shell Oil Co. Measuring conductivity of liquids. 3,047,797, 7–31–62, Cl. 324—30.

Borsig Aktiengesellschaft: *See*—
Clar, Friedrich K. 3,029,738.
Luck, Friedrich, 3,029,793.

Borsini, Carlo: *See*—
Natta, Giulio, Bruzzone, and Borsini. 3,050,503.

Borski, Bernes R., to F. H. Maloney Co. Glazing gasket. 3,068,617, 12–18–62, Cl. 50—520.

Borst, Lyle B., to The Dow Chemical Co. Radiation shielding materials. 3,053,776, 9–11–62, Cl. 252—478.

Borst, Lyle B. Process for cooling a nuclear reactor. 3,068,159, 12–11–62, Cl. 204—154.2.

Borst, Lyle B., and P. A. Michael, to The Dow Chemical Co. Neutron amplifier. 3,066,737, 10–2–62, Cl. 204—193.2.

Borstlap, Cornells, and P. L. Kooijman, to Shell Oil Co. Hydroxyalkylester sulfonates. 3,067,220, 12–4–62, Cl. 260—400.

Borsuk, Harold. Dental amalgam package. 3,016,134, 1–9–62, Cl. 206—47.

Borthayre, Jean L. A. Phonographic record-player tone-arms. 3,042,412, 7–3–62, Cl. 274—23.

Bortnek, Eugene, and J. A. Vona, to Celanese Corp. of America. Drying oils. 3,059,002, 10–16–62, Cl. 260—405.

Bortnick, Newman M., to Rohm & Haas Co. Method for the preparation of monocyanoethylformamide. 3,017,425, 1–16–62, Cl. 260—465.4.

Bortnick, Newman M., to Rohm & Haas Co. Adducts of monocyclic amides. 3,021,338, 2–13–62, Cl. 260—309.7.

Bortnick, Newman M., to Rohm & Haas Co. Catalyzing reaction with cation exchange resin. 3,037,052, 5–29–62, Cl. 260—485.

Bortnick, Newman M., and G. E. Gantert, to Rohm & Haas Co. Specific α-cyanomethyl-α′-methyladipates. 3,028,412, 4–3–62, Cl. 260—464.

Bortnick, Newman M., and G. E. Gantert, to Rohm & Haas Co. Preparation of esters. 3,028,414, 4–3–62, Cl. 260—465.4.

Bortnick, Newman M., and M. F. Fegley, to Rohm & Haas Co. Process for preparing pyrrolidinones and piperidinones by hydrogenolysis. 3,065,237, 11–20–62, Cl. 260—293.2.

Boruzke, Irvin W.: *See*—
Runde, Byron A., and Boruzke. 3,021,053.
Runde, Byron A., and Boruzke. 3,023,951.

Boruzke, Irvin W., and J. K. Blankenship, to Burroughs Corp. Item counter mechanism. 3,049,289, 8–14–62, Cl. 235—60.

Borys, Emil. Cartridge fuse holder and indicator. 3,047,695, 7–31–62, Cl. 200—121.

Borzykowski, Boruch-Boris : *See*—
Meyer, Ernest A. 3,057,618.
Borzykowski, Chaskiel-Henryk : *See*—
Meyer, Ernest A. 3,057,618.
Bos, Fred C. Load length warning device. 3,041,580, 6–26–62, Cl. 340—87.
Bos, Harmannus : *See*—
Van den Berg, Cornelis E. P. V., Bos, and Müytjens. 3,060,162.
Bos, Hendrik J. T. : *See*—
Arens, Josef F., Bos, and Vieregge. 3,030,359.
Bos, John R., and R. B. Shulters, to Gardner-Denver Co. Wiring machine. 3,028,108, 4–3–62, Cl. 242—7.
Bos, Jules : *See*—
Duinker, Simon, and Bos. 3,024,318.
Duinker, Simon, and Bos. 3,058,200.
Bosch, Robert, G.m.b.H. : *See*—
Domann, Helmut. 3,053,243.
Heiser, Joachim. 3,023,709.
Hofer, Gerald, and Eheim. 3,058,455.
Hoyler, Alfred E. 3,029,460.
Kochendorfer, Heinrich. 3,056,305.
Köhler, Heinrich. 3,018,674.
Links, Heinz. 3,050,001.
Lüscher, Jakob. 3,025,449.
Mittag, Hermann. 3,028,537.
Mittag, Hermann. 3,065,400.
Mittag, Hermann. 3,065,401.
Müller, Kurt, and Schleifer. 3,022,441.
Nonnenmacher, Gerhard. 3,053,192.
Raabe, Gotthold. 3,032,026.
Schadlich, Fritz. 3,030,839.
Söhner, Gerhard. 3,060,346.
Veit, Karl. 3,029,687.
Vogel, Wilhelm. 3,034,363.
Vogel, Wilhelm. 3,058,369.
Weigert, Wilhelm. 3,053,191.
Zielasek, Gotthold. 3,032,695.
Zielasek, Gotthold. 3,037,155.
Bosch, Robert, G.m.b.H., Firma : *See*—
Paule, Kurt, Knapp, Zechnall, and Schutte. 3,0511,152.
Bosch, Werner, to Siemens and Halske Aktiengesellschaft. Contact alternator. 3,064,096, 11–13–62, Cl. 200—90.
Boschi, Antonio, to Societe Applicazioni Gomma Antivibranti S.A.G.A., S.p.A. Antivibrating washer for helical spring suspensions. 3,051,462, 8–28–62, Cl. 267—33.
Boscia, Salvatore, and E. R. Kreinberg, to Philco Corp. System for testing transistors. 3,054,954, 9–18–62, Cl. 324—158.
Bosco, Charles G. : *See*—
Stewart, William R., and Bosco. 3,033,350.
Bose, Amar G. Loudspeaker system. 3,038,964, 6–12–62, Cl. 179—1.
Bose, Norman J., and N. R. Kroninger, to General Precision, Inc. X-Y plotter. 3,019,072, 1–30–62, Cl. 346—29.
Bosenberg, Wolfram A., to Radio Corp. of America. Fabricating semiconductor devices. 3,046,176, 7–24–62, Cl. 156—11.
Boshinski, Edwin E. : *See*—
Allen, Kenneth C., Boshinski, and Meeker. 3,057,554.
Boskamp, Hugo : *See*—
Hohn, Karl-Heinz. 3,059,860.
Bosley, John J., and R. L. Stephenson, to United States Steel Corp. Method for producing high-temperature cement in the blast furnace. 3,052,534, 9–4–62, Cl. 75—41.
Bosmajian, George, Jr. : *See*—
Broman, Victor E., and Bosmajian. 3,063,942.
Bosomworth, George P., to The Firestone Tire & Rubber Co. Apparatus and method of building tires. 3,038,524, 6–12–62, Cl. 156—405.
Bosoni, Achille, to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Method of molding amorphous-crystalline polymers and articles molded therefrom. 3,025,-572, 3–20–62, Cl. 18—55.
Boss, Charles G., to The Quaker Oats Co. Electrostatic separation. 3,031,079, 4–24–62, Cl. 209—128.
Boss, Harold O., to Borg-Warner Corp. Differential pressure transducer. 3,049,789, 7–31–62, Cl. 73—398.
Boss, Karl-Heinz, H. Rausch, and K. Meyer, to Metallgesellschaft Aktiengesellschaft. Process for the heat hardening of pellets composed of ores on sintering grates. 3,020,147, 2–6–62, Cl. 75—5.
Bossard, Bernard B., to United States of America, Army. Superregenerative reactance amplifier. 3,045,115, 7–17–62, Cl. 250—20.
Bossard, Werner : *See*—
Voltz, Jacques, and Bossard. 3,055,881.
Bossart, Paul N., to Westinghouse Air Brake Co. Radiant energy detectors. 3,065,347, 11–20–62, Cl. 250—83.3
Bosse, Joseph O. Shears for sheet metal and the like. 3,034,-214, 5–15–62, Cl. 30—257.
Bosse, Robert W. : *See*—
Braendel, Felix W., and Bosse. 3,015,117.
Bossemeyer, Neal C. : *See*—
Dietz, John W., MacFadgen, and Bossemeyer. 3,067,433.
Bossen, David A., to Industrial Nucleonics Corp. Measuring and controlling system. 3,038,401, 6–12–62, Cl. 99—237.
Bossert, Richard E. Fishing rod rest. 3,017,149, 1–16–62, Cl. 248—39.
Bosshard, Hans H., and H. Zollinger, to Ciba Ltd. Peridicarboxylic acid imide dyestuffs containing at least one isothiocyanate group. 3,045,019, 7–17–62, Cl. 260—281.
Bosshard, Hans H., and H. Zollinger, to Ciba Ltd. Anthraquinone dyestuffs containing at least one isothiocyanate group. 3,045,029, 7–17–62, Cl. 260—374.
Bosshard, Hans H., and H. Zollinger, to Ciba Ltd. Process for dyeing or printing polyhydroxylated materials. 3,051,542, 8–28–62, Cl. 8—46.
Bossi, Enrico, to P. Gennari. Machine for preparing coffee beverage. 3,025,781, 3–20–62, Cl. 99—302.
Bost, Glenn E. : *See*—
Brussalis, William G., Jr., and Bost. 3,066,763.
Bost, Howard W. : *See*—
Doss, Richard C., and Bost. 3,051,752.
Mahan, John E., and Bost. 3,023,569.
Bost, Howard W., and R. C. Doss, to Phillips Petroleum Co. Spiro and dispiro quaternary ammonium compositions. 3,055,171, 9–25–62, Cl. 60—35.4.
Bosters, Adrianus F. : *See*—
Wijdeveld, Petrus W. J., Scholtze, and Bosters. 3,063,-755.
Bostitch, Inc. : *See*—
Allen, Howard G. 3,049,715.
Fisher, Edward I. 3,055,344.
Fisher, Edward I. 3,063,421.
Jenney, Robert W., and Fisher. 3,067,724.
Kufel, Stanley, Jr. 3,064,626.
Kufel, Stanley, Jr., and Bez. 3,029,436.
O'Rourke, John R., Jr. 3,067,851.
Bostitch Industrial Stapling Machine Co. : *See*—
Smith, Arthur J. 3,051,135.
Bostock, James H. : *See*—
Grimmer, George G., and Bostock. 3,051,243.
Bostock, William T., Jr., and D. E. Johnson, to National Distillers and Chemical Corp. Direct bag and sheet stacker. 3,064,827, 11–20–62, Cl. 214—6.
Boston Chemical Products Co. : *See*—
Reiling, Thomas L. 3,053,867.
Boston, Frank E. : *See*—
Marsh, Carl E., and Boston. 3,022,914.
Boston, Frank E., to The Pyramid Rubber Co. Vented nursing unit. 3,044,649, 7–17–62, Cl. 215—11.
Boston, J. Crawford : *See*—
Barton, Arthur F. 3,032,141.
Boston & Lockport Block Co. : *See*—
Seamans, Donald C., and Ingalls. 3,050,286.
Boston Machine Works Co. : *See*—
Decosimo, John J. 3,035,288.
Heiseler, George W. 3,041,998.
Bostrom Corp. : *See*—
Hickman, Albert F. 3,036,805.
Radke, Arthur O., and Tengler. 3,059,890.
Simons, Allison K., Radke, and Tengler. 3,061,260.
Bostrom, John D., to Poster Packaging, Inc. Cover for a tray. 3,066,824, 12–4–62, Cl. 220—60.
Bostrom, John D. to Poster Packaging, Inc. Reusable container. 3,070,275, 12–25–62, Cl. 229—14.
Bostwick, Lee G., and W. Strack, to Bell Telephone Laboratories, Inc. Selective signaling system with narrow band feedback. 3,040,256, 6–19–62, Cl. 250—20.
Bostwick, Louis E., to International Minerals & Chemical Corp. Granular fertilizer. 3,053,622, 9–11–62, Cl. 23—107.
Bostwick, Norvan W., to Simmonds Precision Products, Inc. Fuel injection pump with fuel cut-off device. 3,055,305, 9–25–62, Cl. 103—41.
Bostwick, Wallace L., to General Aniline & Film Corp. Noncurling film. 3,054,673, 9–18–62, Cl. 96—87.
Boswstow, Stephen R. Animated picture videotape recording. 3,025,344, 3–13–62, Cl. 178—6.6.
Boswau, Hans P., to Leich Electric Co. Party line identification apparatus. 3,019,297, 1–30–62, Cl. 179—17.
Boswau, Hans P., and H. W. Clausen, to Leich Electric Co. Cordless switchboard. 3,033,942, 5–8–62, Cl. 179—91.
Boswell, Charles L., to The Wander Co. Medicinal tablet. 3,048,526, 8–7–62, Cl. 167—82.
Boswell, David, and J. S. Miller, to The General Electric Co. Ltd. Electrical devices having hermetically sealed envelopes. 3,065,390, 11–20–62, Cl. 317—234.
Boswell, Ian I., and M. N. G. Goldsmith, said Boswell assor, to Newport Instruments (Scientific and Mobile) Ltd. Electrical measuring instrument. 3,061,779, 10–30–62, Cl. 324—62.
Boswell, Vance F., to Clevite Corp. Transducer-hull for underwater use. 3,059,217, 10–16–62, Cl. 340—5.
Boswinkle, George, and W. L. Marple, to Whirlpool Corp. Dry cleaning apparatus. 3,066,519, 12–4–62, Cl. 68—12.
Bosworth, Cyrus M., to Carrier Corp. Separation systems. 3,049,888, 8–21–62, Cl. 62—58.
Bosworth, Kenneth O., and T. F. Matheson, to George W. Dahl Co., Inc. Reversible valve structure. 3,026,896, 3–27–62, Cl. 137—270.
Bosworth, Raymond H., to Bell Telephone Laboratories, Inc. Mounting board for electric circuit elements. 3,042,740, 7–3–62, Cl. 174—68.5.
Botany Industries, Inc. : *See*—
Schwartz, Robert C., and Moss. 3,049,763.
Botar, Bela. Safety belt with dashboard support. 3,022,089, 2–20–62, Cl. 280—150.
Botefuhr, Harold R. : *See*—
Amundsen, Oliver O., and Botefuhr. 3,022,769.
Boteler, Henry W., to Grinnell Corp. Diaphragm valve. 3,020,020, 2–6–62, Cl. 251—331.

Boteler, Henry W., to Grinnell Corp. Reinforced diaphragm. 3,026,909, 3–27–62, Cl. 137—793.
Boteler, William C., to Puritan Compressed Gas Corp. Dual action humidifier apparatus. 3,066,923, 12–4–62, Cl. 261—64.
Both, Weldon S., and A. J. Coakley, to Contact Sheeting, Inc. Underground sheeting methods. 3,068,656, 12–18–62, Cl. 61—41.
Bothe Computronics, Inc.: *See*—
Bothe, Rudolf. 3,037,692.
Bothe, Rudolf. 3,050,243.
Bothe, Rudolf, to Bothe Computronics, Inc. Read-out mechanism for calculators. 3,037,692, 6–5–62, Cl. 235—60.4.
Bothe, Rudolf, to Bothe Computronics, Inc. Data-transmitting and punching mechanism. 3,050,243, 8–21–62, Cl. 234—103.
Bothwell, Marvin R., to The Dow Chemical Co. Joint. 3,052,331, 9–4–62, Cl. 189—36.
Bothwell, Theodore P., to EPSCO, Inc. Voltage comparator indicating two input signals equal employing constant current source and bistable trigger. 3,054,910, 9–18–62, Cl. 307—88.5.
Botkin, Albert J.: *See*—
Kemp, Edwin V., Jordan, and Botkin. 3,070,005.
Botkin, Lawrence A., to Buckeye Iron & Brass Works. Liquid level detector. 3,025,893, 3–20–62, Cl. 141—128.
Botkin, Lawrence A., to Buckeye Iron & Brass Works. Valve structure. 3,039,489, 6–19–62, Cl. 137—608.
Botkin, Lawrence A., to Buckeye Iron & Brass Works. Automatic valve structure. 3,060,978, 10–30–62, Cl. 141—128.
Botkin, Lawrence A., to Buckeye Iron and Brass Works. Automatic dispensing nozzle. 3,062,247, 11–6–62, Cl. 141—209.
Botsford, James H. Method of vulcanizing uncured tread rubber to a used tire casing. 3,061,498, 10–30–62, Cl. 156—96.
Botsford, Neilan B., to United States of America, Atomic Energy Commission. Explosive means to separate casing members. 3,032,356, 5–1–62, Cl. 285—3.
Bott, George S., and W. P. Konazewski, to American Cyanamid Co. Precision grinding of surgical sutures. 3,066,452, 12–4–62, Cl. 51—88.
Bott, George S., and W. P. Konazewski, to American Cyanamid Co. Surgical sutures. 3,066,673, 12–4–62, Cl. 128—335.5.
Bottasso, Carlo, L. Amici, and L. Maiocchi, to Pirelli S.p.A. Pneumatic tire with integral rim. 3,047,041, 7–31–62, Cl. 152—363.
Bottenberg, Kenneth C., and H. V. Hendrix, to Phillips Petroleum Co. Surge system. 3,027,901, 4–3–62, Cl. 137—8.
Bottenberg, Warren E., to B-M-B Co., Inc. Windrower attachment for rotary mower. 3,059,398, 10–23–62, Cl. 56—25.4.
Bottenbruch, Ludwig: *See*—
Schnell, Hermann, and Bottenbruch. 3,043,800.
Schnell, Hermann, Bottenbruch, and Krimm. 3,028,365.
Bottenbruch, Ludwig, G. Fritz, and H. Schnell, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of polycarbonates. 3,062,781, 11–6–62, Cl. 260—47.
Bottenhorn, Hermann A., to Baldwin-Lima-Hamilton Corp. Guide and support for unitary shear assembly. 3,066,566, 12–4–62, Cl. 83—623.
Bottinelli, Norman E., and H. M. Rovenger, said Bottinelli assor. to J. P. Rossi. Pneumatic systems. 3,048,875, 8–14–62, Cl. 15—301.
Botzler, Ronald J. Folding hairbrush. 3,065,482, 11–27–62, Cl. 15—203.
Bottner, Haakon. Base for core drills. 3,044,793, 7–17–62, Cl. 280—12.
Bottolfson, Edwin O. Grain auger hopper. 3,070,262, 12–25–62, Cl. 222—107.
Bottomley, Anthony, to Phillips Petroleum Co. Process for producing biaxially oriented-plastic film. 3,048,895, 8–14–62, Cl. 18—57
Bottoms, Harry S.: *See*—
Basford, Kenneth A., and Bottoms. 3,056,454.
Haworth, Lionel, Basford, Smith, and Bottoms. 3,067,628.
Bottorf, George F., to Celanese Corp. of America. Pile carpet. 3,033,240, 5–8–62, Cl. 139—391.
Bottorf, Harry F., Jr.: *See*—
Powell, George W., and Bottorf. 3,069,811.
Bottorf, James D., and J. A. Dzurko, to The Trane Co. Air diffusing device. 3,040,645, 6–26–62, Cl. 98—40.
Bottrell, Richard H., to Burroughs Corp. Sheet stack advance mechanism. 3,035,834, 5–22–62. Cl. 271—34.
Botts, Hugh P. Game. 3,033,571, 5–8–62. Cl. 273—127.
Botvin, George B. Reinforced braced joint and method and means for making the same. 3,031,996, 5–1–62, Cl. 113—110.
Boucek, Albert C., G. E. Elliott, Jr., and M. M. Stewart, to Gulf Research & Development Co. Process for preparing a catalyst containing a metal of the iron group. 3,029,207, 4–10–62, Cl. 252—470.
Bouchal, Alexander W.: *See*—
Apperson, Lester D., and Bouchal. 3,034,967.
Bouchal, Jaroslav: *See*—
Kremel, Viktor, and Bouchal. 3,040,348.
Bouchard, Charles E.: *See*—
Picard, Martial. 3,030,992.
Bouchard, George H., to Sylvania Electric Products Inc. Electroluminescent device. 3,070,722, 12–25–62, Cl. 313—108.
Bouchard, John R., and D. de R. Norton, to Minneapolis-Honeywell Regulator Co. Support means. 3,035,238, 5–15–62, Cl. 336—30.
Bouchard, Norman J., to Minnesota Mining and Mfg. Co. Tape wrapping machines. 3,039,249, 6–19–62, Cl. 53—198.
Bouchard, Robert G., and L. Peras, to Societe Anonyme des Roulements a Aiguilles, and Regie Nationale des Usines Renault. Universal joint of the Hooke's type. 3,029,618, 4–17–62, Cl. 64—21.
Bouchayer & Viallet Etablissements: *See*—
Daumy, Georges, Rambaud, and Arnoux. 3,049,335.
Boucher, Claude: *See*—
Clouter, Jean T., and Boucher. 3,065,507.
Boucher, John B., to Rinshed-Mason Co. Water-reducible coating composition. 3,023,177, 2–27–62, Cl. 260—21.
Boucher, John B., and G. W. Bussell, to Rinshed-Mason Co. Epoxy modified water soluble alkyd resin. 3,027,341, 3–27–62, Cl. 260—22.
Boucher, Louis, to L. Jean. Non-intermittent film projector. 3,063,341, 11–13–62, Cl. 88—16.8.
Boucher, Percival L., to Glenfield & Kennedy Ltd. Method of and apparatus for preventing blinding of micro-filters. 3,069,226, 12–18–62, Cl. 21—54.
Boudan, Jacques, ½ to Societe Grenobloise d'Etudes & d'Applications Hymjaulzques Sogreah, Societe Anonyme. Apparatus for feeding materials at a regulated rate. 3,062,408, 11–6–62, Cl. 222—55.
Boudet et Cie, and Compagnie Centrale de Mines et Metallurgie Sicli: *See*—
Vignier, Serge L. E. 3,053,054.
Boudkevitch, Wasilm, and J. Duron. Flagellation massaging apparatus. 3,039,457, 6–19–62, Cl. 128—54.
Boudouris, Angelo, to Eprad, Inc. Menu stand for drive-in restaurant. 3,056,222, 10–2–62, Cl. 40—132.
Boudreaux, George S.: *See*—
Angel, Richard R., and Boudreaux. 3,025,919.
Boudreaux, Joseph R., and F. S. McDonald, to The Dow Chemical Co. Fuel compositions. 3,019,094, 1–30–62, Cl. 44—56.
Bouffort, Victor A. Two-wheeled motor vehicle of the scooter type. 3,042,132, 7–3–62, Cl. 181—32.
Boughner, Lawrence G., to Rockwell-Standard Corp. Non-drive torque-transmitting axles for transportation vehicles. 3,049,928, 8–21–62, Cl. 74—13.
Boughton, George J., I. A. G. Dalrymple, and H. P. Taylor, to Becker & Co. Ltd. Paper sizing agents. 3,044,890, 7–17–62, Cl. 106—238.
Boughton, Olin W., C. J. De Grave, Jr., and K. D. Maier, to Bausch & Lomb Inc. Slide projector tray. Re. 25,115, 1–9–62, Cl. 40—79.
Boughton, Olin W., and K. D. Maier, to Bausch & Lomb Inc. Stereomicroscope variable focus mounting. 3,060,801, 10–30–62, Cl. 88—39.
Boughtwood, John E., and T. M. Grybowski, to The Western Union Telegraph Co. Frequency shift modulation receiver. 3,017,464, 1–16–62, Cl. 178—88.
Bougie, Romeo, and L. F. Shaw, to Borg-Warner Corp. Automatic ice cube maker. 3,064,442, 11–20–62, Cl. 62—344.
Bouid, Geoffrey, to Dunlop Rubber Co., Ltd. Inflatable underwater swimming and diving suits. 3,024,465, 3–13–62, Cl. 2—2.1.
Bouldin, Preston N. Printing press. 3,026,106, 3–20–62, Cl. 270—5.
Boule, George P., to R. R. Donnelley & Sons Co. Apparatus to index and clamp electrotype plates for punching. 3,043,586, 7–10–62, Cl. 269—49.
Boulet, Georges, to Recherches Etudes Production R.E.P., Societe à Responsabilite Limitee: Pneumatic suspension for vehicles. 3,051,470, 8–28–62, Cl. 267—64.
Bouligny, R. H., Inc.: *See*—
Beaver, Fred R., and Cradle. 3,066,886.
Bour, William E., to The National Acme Co. Roll head. 3,058,196, 10–16–62, Cl. 29—35.
Bourcier de Carbon, Christian M. L. L. Burnishing tool. 3,059,314, 10–23–62, Cl. 29—90.
Bourcier de Carbon, Christian M. L. L., and J. E. Heckethorn, to said C. M. L. L. Bourcier de Carbon. Shock absorbers. 3,038,562, 6–12–62, Cl. 188—100.
Bourdeau, Romeo G., to Alloyd Research Corp. Metal deposition process and apparatus. 3,031,338, 4–24–62, Cl. 117—97.
Bourdunis, Constantine C. Emergency exit means. 3,055,452, 9–25–62, Cl. 182—95.
Bourgeaux, Maurice, to Compagnie de Saint-Gobain. Apparatus for drawing uniform fibers of thermoplastic materials. 3,055,052, 9–25–62, Cl. 18—8.
Bourget, Joseph A., to Warwick Mfg. Corp. Deflection circuit and amplifier therefor. 3,034,013, 5–8–62, Cl. 315—27.
Bourget, Joseph A., to Warwick Mfg. Corp. Transistor switch. 3,056,064. 9–25–62, Cl. 315—27.
Bourgoin, Laureo P. Automobile windshield awning. 3,068,046, 12–11–62, Cl. 296—95.
Bourgraf, Elroy E., and R. H. Ferneau. Stretcher having recessed bed. 3,039,119, 6–19–62, Cl. 5—82.
Bourguet, Jean M., and R. D. Drew, to Socony Mobil Oil Co., Inc. Pressure control system. 3,049,013, 8–14–62, Cl. 73—388.
Bourguignon, Jules F. J., to Baumgartner Freres S.A. Device for energizing a timepiece, including at least one photoelectric cell. 3,050,631, 8–21–62, Cl. 250—203.

Bourguignonne de Mechanique, Societe : *See*—
Sobole, Yvan. 3,027,935.
Bourke, Edgar R. : *See*—
Barrett, Edward L. 3,017,449.
Bourne, Henry A., Jr., to Continental Oil Co. Apparatus and method for completing wells. 3,064,733, 11–20–62, Cl. 166—55.
Bourne, Joseph R., to Carrier Corp. Absorption refrigeration system. 3,038,316, 6–12–62, Cl. 62—107.
Bourne, Kenneth H., and P. D. Holmes, to The British Petroleum Co. Ltd. Hydrogenation of unsaturated hydrocarbons. 3,041,385, 6–26–62, Cl. 260—677.
Bourne, Roland B., and J. P. Tyskewicz, to American Machine & Foundry Co., Inc. Acoustic duct and panel construction therefor. 3,018,840, 1–30–62, Cl. 181—33.
Bourne, William G., and C. E. Hayter, to Rotax Ltd. Electromagnetic electric switches. 3,023,286, 2–27–62, Cl. 200—87.
Bourns, Inc. : *See*—
Bourns, Marlan E., Boode, and O'Brian. 3,020,505.
Bourns, Marlan E., Boode, and O'Brian. 3,069,648.
Bourns, Marlan E., and Goeppinger. 3,030,599.
Bourns, Marlan E., Hardison, and Hulbert. 3,051,921.
Hardison, Wilbur T., and Hulbert. 3,018,459.
Hardison, Wilbur T., Mathison, Caddock, and Bourns. 3,069,646.
Marks, Eugene A. 3,020,504.
O'Brian, Edward D. 3,069,647.
Zuehlke, Arthur A., and Bourns. 3,032,733.
Zuehlke, Arthur A., and Brown. 3,032,732.
Zuehlke, Arthur A., and Hyams. 3,020,508.
Bourns, Marlan E. : *See*—
Hardison, Wilbur T., Mathison, Caddock, and Bourns. 3,069,646.
Zuehlke, Arthur A., and Bourns. 3,032,733.
Bourns, Marlan E. Pressure responsive instruments. 3,068,700, 12–18–62, Cl. 73—398.
Bourns, Marlan E., C. N. Boode, and E. D. O'Brian ; said Boode and O'Brian assors. to Bourns, Inc. Adjustable electrical instruments. 3,020,505, 2–6–62, Cl. 338—43.
Bourns, Marlan E., and E. J. Goeppinger ; said Goeppinger assor. to Bourns, Inc. Linear motion variable resistor. 3,030,599, 4–17–62, Cl. 338—183.
Bourns, Marlan E., W. T. Hardison, and W. D. Hulbert ; said Hardison and Hulbert assors. to Bourns, Inc. Variable resistor construction. 3,051,921, 8–28–62, Cl. 338—180.
Bourns, Marlan E., C. N. Boode, and E. D. O'Brian ; said Boode and O'Brian assors. to Bourns, Inc. Adjustable electrical instruments. 3,069,648, 12–18–62, Cl. 338—180.
Bourquard, Fernand, to Commissariat a l'Energie Atomique. Fluid film dynamic bearing systems. 3,062,594, 11–6–62, Cl. 308—36.1.
Bourque, Charles E., to Acton Laboratories, Inc. Apparatus for assembling C-rings on shafts. 3,054,169, 9–18–62, Cl. 29—208.
Bourque, Theodore E. : *See*—
Varadi, Louis E., Bourque, and Pesarek. 3,056,583.
Bourquin, Jean, to Institut Dr. Ing. Reinhard Straumann A.G. Escapement. 3,034,286, 5–15–62, Cl. 58—121.
Bourquin, Jean-Pierre : *See*—
Renz, Jany, Bourquin, Griot, Reusch, and Schwarb. 3,053,038.
Renz, Jany, Bourquin, Griot, Schwarb, and Reusch. 3,055,888.
Bourquin, Landrum S., to Savannah Machine & Foundry Co. Apparatus for pressure testing hollow bodies for leakage. 3,019,734, 2–6–62, Cl. 103—49.
Bourseaux, Friedrich : *See*—
Arnold, Herbert, Bourseaux, and Brock. 3,035,080.
Arnold, Herbert, Brock, and Bourseaux. 3,018,302.
Bousky, Samuel, to Chicago Aerial Industries, Inc. Oscillographic viewing and recording systems. 3,047,870, 7–31–62, Cl. 346—110.
Bousky, Samuel, and J. R. Miles, to Chicago Aerial Industries, Inc. High edge definition lens. 3,028,793, 4–10–62, Cl. 88—57.
Bousquet, John A., W. J. McDonald, and R. W. Voigt, to Crown Zellerbach Corp. Method of making corrugated paperboard with a wrapping edge. 3,031,356, 4–24–62, Cl. 156—202.
Boussu, Gabriel X. R., L. P. F. A. Neuville, L. N. N. Saint-Frison, and P. M. R. L. Peignier, to Michelin & Cie. Method and control system for emulsion polymerization. 3,060,160, 10–23–62, Cl. 260—88.3.
Boussu, Gabriel X. R., L. P. F. A. Neuville, and L. H. N. Saint-Frison, to Michelin & Cie. Pneumatic tire casings. 3,062,259, 11–6–62, Cl. 152—356.
Boutelant, Paul : *See*—
Weill, Henry, and Boutelant. 3,061,778.
Boutet, Paul, to Million-Guiet-Tubauto. Sleeping berth. 3,028,606, 4–10–62, Cl. 5—9.
Bouton, George M., to Bell Telephone Laboratories, Inc. Soldering of aluminum. 3,063,145, 11–13–62, Cl. 29—499.
Boutte, Clarence P., to Shell Oil Co. Contacting column. 3,064,955, 11–20–62, Cl. 261—113.
Bouvier, Charles M. Operating means for blow-out preventer for oil wells. 3,040,763, 6–26–62, Cl. 137—68.
Bouvy, Christiaan H., to J. Dolza. Cylinder heads for internal combustion engines. 3,022,775, 2–27–62, Cl. 123—41.82.
Bouwers, Albert, to Optische Industrie de Oude Delft, N.V. Panoramic camera. 3,044,379, 7–17–62, Cl. 95—16.
Bouza, Anthony, to General Linen Supply & Laundry Co., Inc. Sling support. 3,039,808, 6–19–62, Cl. 294—69.
Bouzard, Victor, & Ses Fils, Societe : *See*—
Berger, Paul J.-M. 3,052,174.
Bouzemburg, Athans, to Radio Corp. of America. System for duplicating magnetic tape records. 3,037,090, 5–29–62, Cl. 179—100.2.
Bouzitat, Jean T. M. G. : *See*—
Ville, Jean A., and Bouzitat. 3,015,446.
Bovard, Robert M., to M.S.A. Research Corp. Respiratory metabolism simulator. 3,049,812, 8–21–62, Cl. 35—19.
Bovarnick, Bennett, H. S. Joachim, deceased, by E. Jacobi, legal representative ; said E. Jacobi, legal representative, assor. of ⅓ to E. Jacobi, ⅓ to G. Joachim, ⅓ to I. Joachim, ⅓ to M. von Riebnits and ⅓ to A. Joachim. Method of producing luminescent materials. 3,021,285, 2–13–62, Cl. 252—301.4.
Bove, Dorothy R. : *See*—
Fischl, Fred B., and Bove. 3,056,666.
Bovenkerk, Harold P., to General Electric Co. Method of diamond growth and apparatus therefor. 3,031,269, 4–24–62, Cl. 23—209.1.
Bovensiepen, Hans-Friedrich, and W. Caspers. Lapping machine. 3,031,377, 5–22–62, Cl. 51—111.
Bovingdon, Hyett H. S., and A. Campbell, to Imperial Chemical Industries Ltd. Compositions comprising solid solutions of chlorinated paraffin and gamma benzene hexachloride. 3,035,970, 5–22–62, Cl. 167—42.
Bovre, Albert J. Patient handling apparatus. 3,049,725, 8–21–62, Cl. 5—86.
Bowar, Gerald J., F. W. Kelley, Jr., and J. P. Wiles, to General Electric Co. Protective circuitry and indicating means for rectifier systems. 3,031,653, 4–24–62, Cl. 340—250.
Bowates Board Co. : *See*—
Meiler, John G. 3,050,782.
Bowden (Engineers) Ltd. : *See*—
Nelsom, Walter A. 3,064,999.
Bowden, George F., and B. E. Ruth, to Symons Mfg. Co. Panel-supporting stringer assembly for a concrete floor slab. 3,052,008, 9–4–62, Cl. 25—131.5.
Bowden, Godfrey H. : *See*—
Ball, Geoffrey R., and Bowden. 3,032,391.
Nies, Nelson P., and Bowden. 3,032,392.
Bowditch, Hoel L. : *See*—
Allen, Albert, Howe, and Bowditch. 3,070,716.
Bowditch, Hoel L., to The Foxboro Co. Damping device. 3,052,324, 9–4–62, Cl. 188—1.
Bowe, John. Cotton candy machine with product of alternating colors. 3,036,532, 5–29–62, Cl. 107—8.
Bowe, John. Machine for spinning sugar. 3,070,045, 12–25–62, Cl. 107—8.
Bowen, Albert E., Jr. : *See*—
Sonntag, Alfred, and Bowen. 3,028,746.
Bowen, Albert E., Jr., to Alpha Molykote Corp. Container. 3,030,651, 4–24–62, Cl. 15—521.5.
Bowen, Edward K. : *See*—
Lund, Richard C., and Bowen. 3,028,203.
Bowen, Eustace C. End lounge glider. 3,043,623, 7–10–62, Cl. 297—273.
Bowen, Gilbert W. Unloading shopping cart. 3,061,375, 10–30–62, Cl. 298—2.
Bowen, Glen L., R. W. Lemon, and J. A. Clauss, Jr. Multiple speed power transmission. 3,050,164, 8–21–62, Cl. 192—4.
Bowen, Howard : *See*—
Grunwald, Robert, Wallace, and Bowen. 3,019,464.
Bowen-Itco, Inc. : *See*—
Brown, Robinson W. 3,038,548.
Newman, James L. 3,068,579.
Siracusa, Dante A. 3,036,855.
Siracusa, Dante A., and Walker. 3,050,131.
Bowen, John C. : *See*—
Wolf, Robert C., and Bowen. 3,052,188.
Bowen, John F. : *See*—
Atkinson, Francis E., and Bowen. 3,041,175.
Bowen, John T., to Union Carbide Corp. Mining cutter bit having spring biased detent means. 3,021,124, 2–13–62, Cl. 262—31.
Bowen, John T., to Preco Inc. Control system for paving machine. 3,029,715, 4–17–62, Cl. 94—46.
Bowen, Kenneth H. : *See*—
Cowles, Edwin, and Bowen. 3,055,599.
Bowen, Lawrence H., III : *See*—
Sheps, Martin I., and Bowen. 3,037,740.
Bowen, Max E. : *See*—
Carlson, Theodore E., and Bowen. 3,028,843.
Bowen, Rafael L., to United States of America, Commerce. Dental filling material comprising vinyl silane treated fused silica and a binder consisting of the reaction product of bis phenol and glycidyl acrylate. 3,066,112, 11–27–62, Cl. 260—41.
Bowen, Richard L., Jr. Variable volume pump for viscous fluids. 3,022,736, 2–27–62, Cl. 103—37.
Bowen, Richard L., Jr. Piston pump. 3,022,742, 2–27–62, Cl. 103—153.
Bowen, Robert C., ½ to K. L. Lane. Key holder. 3,023,603, 3–6–62, Cl. 70—456.
Bowen, Russell J. : *See*—
Margolin, Stanley V., Bowen, Angeline, and Laffert. 3,062,629.

Bowen, Tom, to S. Smith & Sons (England) Ltd. Time controlled actuating mechanism. 3,062,061, 11–6–62, Cl. 74—54.

Bowens, James B.: *See*—
Crump, William M., Vaillancourt, and Bowens. 3,051,422.

Bower, Clyde S., to Shoup Toll Collection Devices, Inc. Coin collector including clearance means. 3,048,251, 8–7–62, Cl. 194—9.

Bower, Gerald C. Method for making wire reinforced fabric. 3,068,155, 12–11–62, Cl. 156—179.

Bower, John L., to North American Aviation, Inc. Vector gage. 3,037,286, 6–5–62, Cl. 33—1.

Bower, Joseph G.: *See*—
Randolph, Carl L., and Bower. 3,030,174.
Taylor, Donald S., Bower, and Bohm. 3,018,307.

Bowerman, Edwin R., Jr., to General Telephone and Electronics Laboratories, Inc. Shift register. 3,020,410, 2–6–62, Cl. 250—208.

Bowerman, Edwin R., Jr., to Sylvania Electric Products Inc. Information display device. 3,059,144, 10–16–62, Cl. 315—151.

Bowerman, Hulie E. Method of making vented rubber members. 3,036,339, 5–29–62, Cl. 18—47.5.

Bowerman, Hulie E. Slush pump valves. 3,039,488, 6–19–62, Cl. 137—516.29.

Bowerman, Hulie E. Long stroke high speed clutch tube. 3,044,596, 7–17–62, Cl. 192—88.

Bowerman, Myron R., to The Alliance Machine Co. Safety stop mechanism. 3,028,977, 4–10–62, Cl. 212—21.

Bowers, Albert: *See*—
Djerassi, Carl, and Bowers. 3,051,703.
Orr, James C., and Bowers. 3,032,551.
Ringold, Howard J., and Bowers. 3,033,862.
Ringold, Howard J., and Bowers. 3,036,068.
Ringold, Howard J., and Bowers. 3,041,359.
Ringold, Howard J., Bowers, and Rosenkranz. 3,028,401.
Ringold, Howard J., Bowers, and Rosenkranz. 3,035,067.
Ringold, Howard J., Zderic, Djerassi, and Bowers. 3,026,317.

Bowers, Albert, to Syntex Corp. Carbamic acid esters. 3,051,744, 8–28–62, Cl. 260—482.

Bowers, Albert, to Syntex Corp. Process for the production of Δ^5-androstene-19-ol and Δ^5-pregnene-19-ol compounds. 3,065,228, 11–20–62, Cl. 260—239.55.

Bowers, Albert, and H. J. Ringold, to Syntex S.A. 6α-cyano progesterone and derivatives thereof. 3,019,240, 1–30–62, Cl. 260—397.3.

Bowers, Albert, and J. Edwards, to Syntex S.A. 3-aldehydo and 3-hydroxy-methyl-androstanes and process for same. 3,035,068, 5–15–62, Cl. 260—397.4.

Bowers, Albert, and J. Edwards, to Syntex S.A. 6-fluoromethyl-17-hydroxy-9,11-dichloroprogesterones and their 17-esters. 3,036,098, 5–22–62, Cl. 260—397.45.

Bowers, Albert, and H. J. Ringold, to Syntex S.A. 6-cyano-16-α-hydroxy-cortical hormones. 3,037,976, 6–5–62, Cl. 260—239.55.

Bowers, Albert, and J. Edwards, to Syntex S.A. 6-fluoromethyl-9α, 11β-dichlorocortical hormones. 3,038,898, 6–12–62, Cl. 260—239.55.

Bowers, Albert, and H. J. Ringold, to Syntex S.A. 6-cyano cortical hormones. 3,046,285, 7–24–62, Cl. 260—397.45.

Bowers, Albert, and H. J. Ringold, to Syntex Corp. 5-cyano and 5-carbamyl steroid derivatives. 3,050,518, 8–21–62, Cl. 260—239.55.

Bowers, Albert, and H. J. Ringold, to Syntex Corp. 7-cyano steroids. 3,050,534, 8–21–62, Cl. 260—397.3.

Bowers, Albert, J. Edwards, and J. C. Orr, to Syntex Corp. Derivatives of Δ^1-androsten-17 β-ol. 3,051,730, 8–28–62, Cl. 260—397.1.

Bowers, Albert, and J. C. Orr, to Syntex Corp. 3-unsubstituted steroids of the pregnane series. 3,053,859, 9–11–62, Cl. 260—397.3.

Bowers, Albert, and J. C. Orr, to Syntex Corp. 3-unsubstituted steroids of the pregnane series. 3,053,862, 9–11–62, Cl. 260—397.4.

Bowers, Albert, and H. J. Ringold, to Syntex Corp. 1-cyano-androstanes. 3,054,809, 9–18–62, Cl. 260—397.3.

Bowers, Albert, J. Edwards, and J. C. Orr, to Syntex Corp. 2-Halo-Δ^2-androsten derivatives and process. 3,055,916, 9–25–62, Cl. 260—397.3.

Bowers, Albert, J. Edwards, and J. C. Orr, to Syntex Corp. 2-Hydroxymethyl-Δ^2-andsten derivatives and process. 3,055,920, 9–25–62, Cl. 260—397.5.

Bowers, Albert, and J. Edwards, to Syntex Corp. Δ^2-allo-pregnene derivatives. 3,056,814, 10–2–62, Cl. 260—397.45.

Bowers, Albert, J. Edwards, and J. C. Orr, to Syntex Corp. 2-carboxy-androstane derivatives and process thereof. 3,057,883, 10–9–62, Cl. 260—397.1.

Bowers, Albert, J. Edwards, and J. C. Orr, to Syntex Corp. 2-formyl-Δ^2-9α, 11β-disubstituted androstane derivatives. 3,062,849, 11–6–62, Cl. 260—397.45.

Bowers, Albert, C. Casas-Campillo, J. A. Zderic, and C. Djerassi, to Syntex Corp. Production of equilin and intermediates. 3,067,212, 12–4–62, Cl. 260—397.4.

Bowers, Charles E., Sr., and E. B. Millart, to The Fibre-Metal Products Co. Suspension harness for safety hats. 3,026,523, 3–27–62, Cl. 2—3.

Bowers, Elwood E.: *See*—
Taylor, Philip, and Bowers. 3,021,750.

Bowers, Emery J., and R. D. Sutherland, to United States of America, Navy. Cross-head for inhibitor extrusion. 3,041,665, 7–3–62, Cl. 18—13.

Bowers, Eric H.: *See*—
Thoma, Oswald, and Bowers. 3,040,532.

Bowers, Eric H., and O. Thoma, to Dowty Hydraulic Units Ltd., and Unipat A.G. Rotating axial thrust bearings. 3,023,058, 2–27–62, Cl. 308—231.

Bowers, Frederick A.: *See*—
Alleman, Carl E., and Bowers. 3,027,267.

Bowers, Fritz K., and J. P. Schafer, to Bell Telephone Laboratories, Inc. Broad-band ferrite polarization rotator. 3,022,384, 2–27–62, Cl. 333—98.

Bowers, George H., III: *See*—
Busse, Warren F., Bowers, and Armitage. 3,043,716.

Bowers, Harry A.: *See*—
Blankenship, Ernest B., and Bowers. 3,020,559.

Bowers, James C. Kite frame assembly. 3,018,075, 1–23–62, Cl. 244—153.

Bowers, Kenneth, and P. S. Vincelett, to General Dynamics Corp. (Convair Division). Flow metering apparatus. 3,067,611, 12–11–62, Cl. 73—214.

Bowers, Klaus D., R. Kompfner, and W. B. Mims, to Bell Telephone Laboratories, Inc. High frequency generator. 3,067,379, 12–4–62, Cl. 321—69.

Bowers, Lester T.: *See*—
Van Sciver, Herbert D., II, Bureau, Bende, and Bowers. 3,061,714.

Bowers Machine Co. Ltd.: *See*—
Nichols, Peter F. 3,018,720.

Bowers, Raymond, and R. W. Ure, Jr., to Westinghouse Electric Corp. Thermoelectric composition. 3,054,842, 9–18–62, Cl. 136—5.

Bowers, Roy C., and R. J. Boedigheimer, to Borg-Warner Corp. Clutch. 3,037,599, 6–5–62, Cl. 192—26.

Bowers, Roy L., and H. W. Noponen, to General Motors Corp. Oil filter assemblies. 3,067,880, 12–11–62, Cl. 210—249.

Bowers, William E., to Schlumberger Wells Surveying Corp. Methods and apparatus for spraying cables. 3,034,923, 5–15–62, Cl. 117—66.

Bowers, William E., to Schlumberger Well Surveying Corp. Methods and apparatus for measurement. 3,066,253, 11–27–62, Cl. 324—34.

Bowersett, Charles F., to United States of America, Navy. Explosive swaging device for mooring a submerged mine. 3,018,828, 1–16–62, Cl. 102—13.

Bowersox, Charles M. Zipper lubricator. 3,019,471, 2–6–62, Cl. 15—560.

Bowersox, Joseph W., to Terra Engineering Co., Inc. Pneumatic tire mounting device. 3,024,830, 3–13–62, Cl. 152—396.

Bowes, Robert C., and J. C. Gill, to National Research Development Corp. Voltage measuring apparatus. 3,052,845, 9–4–62, Cl. 324—99.

Bowes, Robert J., Jr., and D. R. Peacock, to Sylvania Electric Products Inc. Electrophoretic article coating machine. 3,024,184, 3–6–62, Cl. 204—300.

Bowie, Walter S., to United States of America, Interior. High temperature electrostatic precipitator and method of operation. 3,054,243, 9–18–62, Cl. 55—11.

Bowland, Andrew, to William M. Bailey Co. Tapping hole drill rig and drives. 3,033,551, 5–8–62, Cl. 266—42.

Bowlby, James G., to Lasko Metal Products, Inc. Electric can opener. 3,031,752, 5–1–62, Cl. 30—4.

Bowlby, Sherry V. Machine for storing and exchanging used wiping cloths for fresh wiping cloths. 3,042,172, 7–3–62, Cl. 194—4.

Bowlds, Robert P.: *See*—
Schuh, George L., and Bowlds. 3,046,015.

Bowler, Raymond M., and D. L. Bray, to United Shoe Machinery Corp. Transparent lasting machine wipers. 3,016,551, 1–16–62, Cl. 12—12.

Bowler, Raymond M., and M. Clamp, to United Shoe Machinery Corp. Lasting machines. 3,020,571, 2–13–62, Cl. 12—8.8.

Bowler, Valentine M., to Eastman Kodak Co. Adjustable rotatable holder for rolls of photographic material. 3,017,133, 1–16–62, Cl. 242—71.9.

Bowles, Richard S.: *See*—
Chaffee, Robert H., Laskey, Quimby, and Bowles. 3,066,354.

Bowles, Samuel V. Refuse collection apparatus. 3,059,789, 10–23–62, Cl. 214—41.

Bowles, Samuel V. Refuse truck loading device. 3,062,394, 11–6–62, Cl. 214—83.3.

Bowling Aids, Inc.: *See*—
Bergendorf, Leonard W. 3,038,723.

Bowling Master, Inc.: *See*—
Meyer, William F. 3,049,717.

Bowling, Robert T., W. G. Edward, H. A. Keller, and G. F. Scheelke, to Potlach Forests Inc. Automatic edging picker for sawmills. 3,017,909, 1–23–62, Cl. 143—157.

Bowling Specialties Co., Inc.: *See*—
Kohlberg, Victor S. 3,069,164.

Bowling, Teamus, to General Electric Co. Lever mechanism for multiple electrical connectors. 3,035,243, 5–15–62, Cl. 339—15.

Bowlus, Omer E., to Chrysler Corp. Leveling valve. 3,018,798, 1–30–62, Cl. 137—627.5.

Bowlus, Omer E., and K. A. Graham, to Chrysler Corp. Ignition system. 3,049,644, 8–14–62, Cl. 215—219.

Bowman, Charles J., to The Cincinnati Milling Machine Co. Servo amplifier using push-pull, complementary, cascaded, transistors with means to superimpose a higher A.C. frequency on information signal. 3,067,337, 12-4-62, Cl. 307—88.5.

Bowman, Charles L. Protective devices. 3,068,863, 12-18-62, Cl. 128—132.

Bowman, Cloyd R. Beet row thinner. 3,023,815, 3-6-62, Cl. 172—5.

Bowman, David F., to I-T-E Circuit Breaker Co. Transmission line directional coupler impedance matching tuner. 3,025,481, 3-13-62, Cl. 333—33.

Bowman, Edward R.: *See*—
McKennis, Herbert, Jr., and Bowman. 3,048,520.

Bowman, Eldon L.: *See*—
Herman, Virgil L., Muller, and Bowman. 3,064,345.

Bowman, Eldon L., to Northrop Corp. Stabilizer for honeycomb core. 3,021,565, 2-20-62, Cl. 18—47.5.

Bowman, Eldon L., to Northrop Corp. Method of stable masking honeycomb core. 3,046,175, 7-24-62, Cl. 156—11.

Bowman, Francis A. Contour spray machine. 3,034,475, 5-15-62, Cl. 118—2.

Bowman, Glade B.: *See*—
Hammond, Milton B., and Bowman. 3,064,337.

Bowman, Gordon L., to Premier Co. Float seal for vacuum cleaners. 3,045,412, 7-24-62, Cl. 55—417.

Bowman, James C.: *See*—
Myers, Donald E., List, and Bowman. 3,050,872.

Bowman, Joe, to Kingston Products Corp. Timer control structure. 3,021,399, 2-13-62, Cl. 200—38.

Bowman, Joe, to Kingston Products Corp. Mechanical movement for coin operated timer. 3,046,803, 7-31-62, Cl. 74—104.

Bowman, Joe, to Kingston Products Corp. Mechanism for coin-operated timer. 3,056,307, 10-2-62, Cl. 74—104.

Bowman, Joe, and L. A. Woolley, to Kingston Products Corp. Sequential timer. 3,053,947, 9-11-62, Cl. 200—38.

Bowman, John H., and W. C. Zeluff, to Clarage Fan Co. Automatic data system for fan testing. 3,054,288, 9-18-62, Cl. 73—168.

Bowman, Lawrence E., to Leonard Valve Co. Fluid mixing device. 3,061,195, 10-30-62, Cl. 236—12.

Bowman, Norman J.: *See*—
Proell, Wayne A., and Bowman. 3,020,181.

Bowman, Norman J., to Standard Oil Co. Glycolic acid polymer. 3,047,524, 7-31-62, Cl. 260—32.4.

Bowman, Norman J., and W. A. Proell, to Standard Oil Co. Plasticized thermoplastic composition containing di(dinitrophenyl)-R-glycol ether. 3,015,570, 1-2-62, Cl. 106—181.

Bowman, Norman J., and W. A. Proell, to Standard Oil Co. Composition containing thermoplastic polymer and dinitrophenyl-R-ether as plasticizer therefor. 3,015,571, 1-2-62, Cl. 106—188.

Bowman, Norman J., and W. A. Proell, to Standard Oil Co. Homopolymer of glycolic acid. 3,040,087, 6-19-62, Cl. 260—481.

Bowman, Paul F., to Continental Folding Paper Box Co., Inc. Box forming machines. 3,046,849, 7-31-62, Cl. 93—51.

Bowman, Robert L.: *See*—
Wear, Robert L., and Bowman. 3,052,650.

Bowman, Sidney B., to Richard L. Kelleher. Regeneration of sodium zeolite. 3,032,395, 5-1-62, Cl. 23—112.

Bowman, Spencer, to The Thew Shovel Co. Outriggers for power shovels, cranes or the like. 3,019,913, 2-6-62, Cl. 212—145.

Bowman, Spencer, to The Thew Shovel Co. Outriggers for power shovels, cranes, or the like. 3,021,015, 2-13-62, Cl. 212—145.

Bowman, Spencer, to The Thew Shovel Co. Sprocket chain. 3,054,300, 9-18-62, Cl. 74—245.

Bowman, Urban, and D. V. Bibbins, to Carrier Corp. Heat exchanger. 3,052,105, 9-4-62, Cl. 62—305.

Bowman, Virgil R., and R. J. Keefe. Oil well heater. 3,045,099, Cl. 219—33.

Bowman, Walter A., to United States Steel Corp. Coke oven door. 3,015,614, 1-2-62, Cl. 202—248.

Bowman, Wilbur L., to Odin Corp. Billet saw measuring device. 3,040,609, 6-26-62, Cl. 83—287.

Bowmar Instrument Corp.: *See*—
Mann, Jabez H. 3,050,250.

Bowmer, Thomas, to Rolls-Royce Ltd. Turbine blades, vanes and the like. 3,045,965, 7-24-62, Cl. 253—39.1.

Bown, Delos F.: *See*—
Schutze, Henry G., Leibson, and Bown. 3,020,268.

Bownes, Kenneth A.: *See*—
Dunne, Arthur J., and Bownes. 3,034,997.

Bowser, Inc.: *See*—
Daley, Roger J. 3,015,417.
Griffith, Clement P., and Delaney. 3,066,837.
Headrick, Richard T. 3,028,010.
Headrick, Richard T. 3,048,275.
Mills, James M. 3,037,634.
Topol, George J. 3,049,910.

Box, Dudley T. Accessories for automatic washing machines. 3,053,417, 9-11-62, Cl. 222—76.

Boxall, Frank S., and M. D. Rosenstein, to Lenkurt Electric Co., Inc. Double balanced transistor modulator. 3,027,522, 3-27-62, Cl. 332—44.

Boxer, Rubin: *See*—
Lohneiss, William H., and Boxer. 3,039,692.

Boxshall, George W., and C. S. Todd. Fare box interior illumination. 3,028,073, 4-3-62, Cl. 232—13.

Boyack, Gerald A., and G. Swank, to The Upjohn Co. Herbicidal composition and method. 3,035,910, 5-22-62, Cl. 71—2.6.

Boyajian, Alfred Z. Child's seat with tray. 3,066,977, 12-4-62, Cl. 297—153.

Boyajian, Robert S., and B. B. Becker, to Lewis-Shepard Co. Fork truck with tri-lift mast. 3,051,265, 8-28-62, Cl. 187—9.

Boyar-Schulty Corp.: *See*—
Bunnell, William. 3,028,771.

Boyce, Harlan R., F. C. Fleck, and W. Fournier, to General Motors Corp. Tilt cab for trucks. 3,039,557, 6-19-62, Cl. 180—89.

Boyce, Harold D.: *See*—
Soderquist, Frederick J., Boyce, and Amos. 3,058,968.

Boyce, James L. R.: *See*—
Turner, Edwin S., and Boyce. 3,030,960.

Boyce, John: *See*—
Anderson, Gerald R., and Boyce. 3,040,793.
French, John F., and Boyce. 3,031,065.

Boyce, John, to FMC Corp. Rotary peeling cutter. 3,067,791, 12-11-62, Cl. 146—43.

Boyce, John, and R. B. Catto, to FMC Corp. Conveyor system. 3,067,849, 12-11-62, Cl. 198—19.

Boyce, Walter A., and V. L. Flagge, to Westinghouse Electric Corp. Method of coating a fluorescent type tube and the coated article. 3,018,187, 1-23-62, Cl. 117—33.5.

Boyce, William J., and R. M. Johnson, to United States of America, Navy. Auxiliary feed system. 3,045,957, 7-24-62, Cl. 244—83.

Boyce-Smith, William I., and M. R. Powell, to L. A. Dawes. Counterbalanced truck bed lid. 3,051,523, 8-28-62, Cl. 296—100.

Boyd, Benjamin C.: *See*—
Boyd, Frances P. and B. C. 3,026,538.

Boyd, Clinton A., to Sta-Rite Products, Inc. Submersible motor-pump unit. 3,041,977, 7-3-62, Cl. 103—87.

Boyd, David M., Jr., to Universal Oil Products Co. Method and apparatus for measuring the composition of a liquid mixture. 3,056,282, 10-2-62, Cl. 73—53.

Boyd, Dean M. Electrical outlet strip assembly. 3,061,810, 10-30-62, Cl. 339—22.

Boyd, Don A. Highway warning device. 3,023,725, 3-6-62, Cl. 116—63.

Boyd, Edward S.: *See*—
Rohrberg, Roderick G., and Boyd. 3,032,870.

Boyd, Frances P. and B. C. Outdoor swimming pool. 3,026,538, 3-27-62, Cl. 4—174.

Boyd, Frederick K., to North American Aviation, Inc. Fire detection system with ground fault compensating means. 3,024,450, 3-6-62, Cl. 340—227.

Boyd, Gary D., A. G. Fox, and T. Li, to Bell Telephone Laboratories, Inc. Optical maser cavity. 3,055,257, 9-25-62, Cl. 88—1.

Boyd, George M. Navigation recreation toy device. 3,039,769, 6-19-62, Cl. 273—1.

Boyd, J. & T., Ltd.: *See*—
Warnock, Moses. 3,016,680.

Boyd, John M., to Automatic Electric Laboratories, Inc. Modified elevator for drum handling. 3,045,852, 7-24-62, Cl. 214—65b.

Boyd, Lawrence M., to Dominion Engineering Works Ltd. Torque limiting wicket gate operating mechanism for hydraulic turbines. 3,030,072, 4-17-62, Cl. 253—122.

Boyd, Leo R., and R. G. Bock, to General Electric Co. Fission chamber and assembly. 3,043,954, 7-10-62, Cl. 250—83.1.

Boyd, Leo R., and L. G. Barrett. Cigarette. 3,065,755, 11-27-62, Cl. 131—9.

Boyd, Sherman H., to General Dynamics Corp. Electroluminescent display panel. 3,066,242, 11-27-62, Cl. 315—169.

Boyd, Thomas, to Monsanto Chemical Co. Anionic polymerization process. 3,041,312, 6-26-62, Cl. 260—47.

Boyd, Thomas R., to Illinois Tool Works Inc. Stud assembly having grommet with grommet jacking spring. 3,037,542, 6-5-62, Cl. 151—21.

Boyd, Thomas R., to Illinois Tool Works, Inc. Spring loaded retractable captured screw assembly. 3,059,736, 10-23-62, Cl. 189—36.

Boyd, William H. A., to United States of America, Army. Aerodynamic roll control system. 3,016,827, 1-16-62, Cl. 102—3.

Boyd, William H. A., to United States of America, Army. Non-dead-centering mechanism. 3,059,498, 10-23-62, Cl. 74—527.

Boyd, Winnett, to Arthur D. Little, Inc. Metal bellows. 3,062,238, 11-6-62, Cl. 137—786.

Boyden, Albert C. Child's coaster. 3,023,022, 2-27-62, Cl. 280—87.04.

Boyden, Robert E.: *See*—
Scozzafava, Milton V., Linn, Busch, and Boyden. 3,017,081.
Scozzafava, Milton V., Linn, Busch, and Boyden. 3,064,892.

Boyden, Robert E., M. V. Scozzafava, and A. F. Stansell, to Clary Corp. Calculating machine clutch control means. 3,023,953, 3-6-62, Cl. 235—62.

Boydston, Raymond W.: *See*—
Eshner, Allen J., and Boydston. 3,018,193.

Boyer, Albert J. and G. E., C. L. Austin, and E. F. Glunt, Jr., to Process Solvent Co., Inc. Filling and sealing machine. 3,054,239, 9–18–62, Cl. 53—266.
Boyer, Clarence to E. I. du Pont de Nemours and Co. Process for treating elastic fibers. 3,047,909, 8–7–62, Cl. 18—48.
Boyer, Ernest W., to Continental Oil Co. Method and apparatus for operating an analytical mass spectrometer with a getter-ion pump. 3,057,996, 10–9–62, Cl. 260—41.9.
Boyer, Ernest W., H. T. Ford, and E. E. McKelvey, to Continental Oil Co. Method and apparatus for connecting a getterion pump to an analytical mass spectrometer. 3,050,-622, 8–21–62, Cl. 250—41.9.
Boyer, Frank A.: *See*—
Anthony, Gilbert C., and Boyer. 3,059,120.
Boyer, Gerald E.: *See*—
Boyer, Albert J. and G. E., Austin, and Glunt. 3,054,-239.
Boyer, Joseph E., to Owens-Illinois Glass Co. Plastic container take-out device. 3,060,497, 10–30–62, Cl. 18—2.
Boyer, Joseph M., to Antenna Engineering Laboratories. Multi-frequency antenna. 3,022,507, 2–20–62, Cl. 343—818.
Boyer, Martin. Automatic rotary lawn mower. 3,032,957. 5–8–62, Cl. 56—25.4.
Boyer, Martin. Sickle bar. 3,037,342, 6–5–62, Cl. 56—296.
Boyd, Michael. Ironing board assembly. 3,049,825, 8–21–62, Cl. 38—112.
Boyer, Raymond, to The Bendix Corp. Filler cap for master cylinder. 3,023,924, 3–6–62, Cl. 220—39.
Boyer, Raymond. to The Bendix Corp. Process of manufacture for master cylinder filler caps. 3,070,058, 12–25–62, Cl. 113—121.
Boyer, Raymond, Sr., to The Bendix Corp. Cup-shaped article. 3,041,115, 6–26–62, Cl. 309—4.
Boyer, Richard P., Jr.: *See*—
Berch, William H., Boyer, and Gatzert. 3,041,399.
Boyer, Robert J., to E. I. du Pont de Nemours and Co. Process for coating non-fibrous organic sheet material. 3,043,-713, 7–10–62, Cl. 117—62.
Boyer, Russell J. Clamp for hospital beds. 3,030,639, 4–24–62, Cl. 5—327.
Boyer, William M.: *See*—
Gavlin, Gilbert, and Boyer. 3,038,882.
Molotsky, Hyman M., Boyer, and Tarbell. 3,036,019.
Molotsky, Hyman M., Boyer, and Tarbell. 3,047,527.
Boyer, William M., G. Gavlin, and H. E. Tarbell, Jr., to The Richardson Co. Laminate having improved fabricating properties. 3,031,421, 4–24–62, Cl. 260—19.
Boyer, William M., H. M. Molotsky, and H. E. Tarbell, Jr., to The Richardson Co. Reaction product of an aminosilane, a polyepoxy compound and an organic polyhydroxy compound, and method for preparing same. 3,038,875, 6–12–62, Cl. 260—42.
Boyer, William M., J. H. Shultz, and C. G. Zike, to The Richardson Co. Reactions of silicon-nitrogen containing compounds with hydroxy compounds. 3,043,798, 7–10–62, Cl. 260—46.5.
Boyer, William P., J. R. Mangham, and T. M. Melton, to Virginia-Carolina Chemical Corp. Stabilization of synthetic rubbers. 3,027,348, 3–27–62, Cl. 260—45.7.
Boyett, James R. Can opener. 3,060,567, 10–30–62, Cl. 30—4.
Boyett, William E.: *See*—
Yahnke, James G., and Boyett. 3,050,416.
Boykin, John R.: *See*—
Harmon, Ralph N., and Boykin. 3,063,345.
Boykin, John R., to Westinghouse Electric Corp. Analog coordinate converter. 3,065,916, 11–27–62, Cl. 235—189.
Boylan, David R., and R. R. Rounsley, to Iowa State College Research Foundation, Inc. Quick-curing process for producing superphosphate. 3,041,158, 6–26–62, Cl. 71—40.
Boylan, Donald A.: *See*—
Noiles, Douglas G., and Boylan. 3,046,876.
Boylan, Frank V., to Marine Controls Laboratories. Dip tube supporting means which is locked against axial movement. 3,038,744, 6–12–62, Cl. 285—142.
Boylan, William H., and W. J. O'Brien, to The Seamless Rubber Co. Method of adhering a flexible protective sheet to a rigid surface in which a different coating is on the two mating surfaces. 3,063,891, 11–13–62, Cl. 156—310.
Boyland, Donald A., and J. W. Brightwell, to General Electric Co. Ltd. Process for production of low permeability carbon and resultant article. 3,026,214, 3–20–62, Cl. 117—46.
Boyle, Bryan R., to D. Napier & Sons Ltd. Composite structures, particularly composite pistons. 3,029,112, 4–10–62, Cl. 309—14.
Boyle, Charles M. Reverse drilling rock bit. 3,043,385, 7–10–62. Cl. 175—401.
Boyle, Jamie N.: *See*—
Morrow, James E., and Boyle. 3,022,973.
Boyle, Jamie N. Limb rooting device. 3,052,062, 9–4–62, Cl. 47—37.
Boyle, John A., and J. G. Garnett, to Associated Electrical Industries Ltd. Locking means for turbine or compressor blading. 3,057,598, 10–9–62, Cl. 253—77.
Boyle, Richard J., and J. P. Milionis, to American Cyanamid Co. Cellulosic derivatives of triazinylbenzotriazoles. 3,042,669, 7–3–62, Cl. 260—214.
Boyle, Richard J., O. G. Birsten, and W. L. Mosby, to American Cyanamid Co. New heterocyclic orthoquinones. 3,047,575, 7–31–62, Cl. 260—256.4.
Boyle, Richard J., and J. P. Milionis, to American Cyanamid Co. Aminohydroxyphenylbenzotriazoles and triazine derivatives thereof. 3,055,896, 9–25–62, Cl. 260—249.5.
Boyle, Willard S., and D. G. Thomas, to Bell Telephone Laboratories, Inc. Optical maser. 3,059,117, 10–16–62, Cl. 250—211.
Boyles, Alonzo G. Gas-fired kiln. 3,023,478, 3–6–62, Cl. 25—145.
Boyles, Robert L., to General Electric Co. Time switch and alarm. 3,033,948, 5–8–62, Cl. 200—38.
Boyles, Robert L., to General Electric Co. Miniature alarm clock. 3,059,414, 10–23–62, Cl. 58—38.
Boyles, Robert L., to General Electric Co. Alarm control mechanism. 3,062,931, 11–6–62, Cl. 200—38.
Boyne Products, Inc.: *See*—
Brown, William L. 3,065,650.
Boynton, Bob C., ½0 to Gadget-of-The-Month Club, Inc. Golf ball washer. 3,044,089, 7–17–62, Cl. 15—21.
Boynton, Harry G.: *See*—
De Pierri, William G., Jr., Edwards, and Boynton. 3,052,741.
Boysen, Arne, to Svenska Flaktfabriken, Aktiebolaget. Air curtains. 3,049,984, 8–21–62, Cl. 98—36.
Bozimowski, Mitchell S., and H. J. Tamagne, to Ford Motor Co. Pumps. 3,037,455, 6–5–62, Cl. 103—4.
Bozio, Josephine A.: *See*—
Bianchard, Irene S., and Bozio. . 3,063,056.
Bozymowski, John A.: *See*—
Bolin, Leonard, Bozymowski, and Colten. 3,054,048.
Bozzacco, Francis A., to Goodyear Aircraft Corp. Inorganic laminates. 3,047,442, 7–31–62, Cl. 154—2.6.
Bozzetto, Giuseppe. Continuous sulphonation of organic substances. 3,055,929, 9–25–62, Cl. 260—459.
Braaten, Amund, W. Wilhelmsen, and J. N. Johnsen, to International Standard Electric Corp. Ring shaped vessel for drying and impregnating electrical cables. 3,065,731, 11–27–62, Cl. 118—420.
Braatz, Douglas R., and W. C. Winder. Process of making frozen concentrated milk. 3,046,144, 7–24–62, Cl. 99—192.
Brabander, Herbert J.: *See*
Wright, William B., Jr., and Brabander. 3,016,382.
Wright, William B., Jr., and Brabander. 3,037,047.
Wright, William B., Jr., and Brabander. 3,049,562.
Wright, William B., Jr., and Brabander. 3,061,641.
Brabb, William E. Water ski. 3,031,696, 5–1–62, Cl. 9—310.
Braham, Hugh B. S., to Hazeltine Research, Inc. Tunable discriminator apparatus. 3,064,199, 11–13–62, Cl. 329—137.
Bracci, Delphio J., to Western Electric Co., Inc. Lead forming apparatus. 3,020,936, 2–13–62, Cl. 140—71.
Brace, Neal O., to E. I. du Pont de Nemours and Co. Reactions of perfluoroalkyl iodides and olefins in the presence of esters. 3,016,406, 1–9–62, Cl. 260—653.
Brace, Neal O., to E. I. du Pont de Nemours and Co. Telomers from CH_2CH_2 and ICF_2CF_2I. 3,016,407, 1–9–62, Cl. 260—653.1.
Brace, Neal O., to E. I. du Pont de Nemours and Co. Beta-hydroperfluoroalkyl compounds of phosphorus. 3,047,619, 7–31–62, Cl. 260—500.
Brace, Neal O., and W. B. McCormack, to E. I. du Pont de Nemours and Co. Process for preparing highly fluorinated acid chlorides and novel esters useful therein. 3,047,610, 7–31–62, Cl. 260—463.
Bracey, Kenneth E. G.: *See*—
Petrie, James A., and Bracey. 3,042,167.
Bracey, Kenneth E. G., and J. A. Petrie, to Rolls-Royce Ltd. Power output fuel control means for plural engines. 3,049,-880, 8–21–62, Cl. 60—39.15.
Bracey, Raymond C. Containers for growing plants. 3,067,-543, 12–11–62, Cl. 47—38.
Brach, Eugene, ½ to A. Wagman. Heat treating arch for treating finishes on vehicles and the like. 3,016,442, 1–9–62, Cl. 219—35.
Brack, Karl, to Hercules Powder Co. Fungicides having the 1,2-dithiole nucleus. 3,031,372, 4–24–62, Cl. 167—33.
Brack, Werner, to Radio Engineering Laboratories, Inc. Frequency synthesizer. 3,017,579, 1–16–62, Cl. 331—38.
Bracker AG.: *See*—
Austel, Fritz. 3,054,248.
Ramseier, Paul. 3,055,163.
Brackett, George E., to Basic Products Corp. Meter enclosure. 3,034,677, 5–15–62, Cl. 220—3.8.
Brackett, George E., to Basic Products Corp. Meter troughs. 3,036,244, 5–22–62, Cl. 317—104.
Brackett, George E., to Basic Products Corp. Electric terminal. 3,046,514, 7–24–62, Cl. 339—100.
Brackett, Guy F., Jr., to The Dow Chemical Co. Anneal for magnesium alloys. 3,039,901, 6–19–62, Cl. 148—20.3.
Brackett, Lawrence W., to Wood Electric Corp. Toggle lever circuit breaker. 3,036,178, 5–22–62, Cl. 200—116.
Brackin, Hoyt E., and W. R. Spivey. Seaming detachers. 3,050,609, 8–21–62, Cl. 219—19.
Braconier, Frederic F. A., and J. J. L. E. Riga, to Societe Belge de l'Azote et des Produits Chimiques du Marly. Process and apparatus for treatment of hydrocarbons. 3,019,271, 1–30–62, Cl. 260—679.
Braconier, Frederic F. A., and J. J. L. E. Riga, to Societe Belge de l'Azote et des Products Chimiques du Marly. Gas treating process. 3,026,969, 3–27–62, Cl. 183—115.

Braconier, Frederic F. A., and J. J. L. E. Riga, to Societe Belge de l'Azote et des Produits Chimiques du Marly. Process and apparatus for production of unsaturated hydrocarbons. 3,055,957, 9–25–62, Cl. 260—679.

Braconier, Frederic F. A., and J. J. L. E. Riga, to Societe Belge de l'Azote et des Products Chimiques du Marly. Process for the treatment of hydrocarbons. 3,057,707, 10–9–62, Cl. 48—196.

Braconier, Frederic F. A., and J. J. L. E. Riga, to Societe Belge de l'Azote et des Produits Chimiques du Marly. Apparatus for treatment of hydrocarbons. 3,061,415, 10–30–62, Cl. 23—277.

Braconier, Frederic F. A., and J. J. L. E. Riga, to Societe Belge de l'Azote et des Produits Chimiques du Marly, Societe Anonyme. Burner for hydrocarbons. 3,069,248, 12–18–62, Cl. 48—196.

Bradburn, William J., Jr.: *See*—
Wilkerson, Alan W., and Bradburn. 3,068,394.

Bradburn, William J., Jr., H. R. A. Hansen, and E. G. Conger, to The Louis Allis Co. Laminated winding core for electromagnetic devices. 3,041,565, 6–26–62, Cl. 336—217.

Bradbury, Charles, to Blackburn Aircraft Ltd. Aircraft of the rotating wing type. 3,038,684, 6–12–62, Cl. 244—17.11.

Bradbury, Cyril H., to Simms Motor Units Ltd. Filters. 3,061,106, 10–30–62, Cl. 210—232.

Bradbury, Cyril H., and W. Friedlander, to Simms Motor Units Ltd. Filters. 3,061,105, 10–30–62, Cl. 210—232.

Bradbury, Elmer J., to W. R. Grace & Co. Polyethylene process and catalyst. 3,035,039, 5–15–62, Cl. 260—94.9.

Bradbury, Ernest J.: *See*—
Worn, David K., and Bradbury. 3,034,173.

Bradbury, Walter C.: *See*—
Hess, Frederick G., and Bradbury. 3,051,648.

Bradbury, Wilburn F., to Smith-Corona Marchant Inc. Perforator. 3,051,377, 8–28–62, Cl. 234—115.

Braddon, George D., to Combustion Engineering, Inc. Pellet cleaning for rotary air preheater. 3,062,508, 11–6–62, Cl. 257—265.

Braddy, De Carr C., to The Babcock & Wilcox Co. Apparatus for superheating vapor. 3,048,154, 8–7–62, Cl. 122—240.

Braden, Frank L. Hydraulically controlled sloping attachment for graders. 3,061,956, 11–6–62, Cl. 37—155.

Braden, William D., to The Goodyear Tire & Rubber Co. Tire bead building machine. 3,057,566, 10–9–62, Cl. 242—7.

Braden Winch Co.: *See*—
Turnquist, Edwin W. 3,020,022.

Bradley, Walter H., Jr., to Jefferson Chemical Co., Inc. Catalytic synthesis of triethylenediamine. 3,056,788, 10–2–62, Cl. 260—268.

Bradfield, Geoffrey: *See*—
McKennell, Raymond, and Bradfield. 3,062,040.

Bradford Dyers' Association Ltd., The: *See*—
Evans, John G., and Crawshaw. 3,047,335.

Bradford, F. R.: *See*—
Aytes, Clay. 3,063,282.

Bradford, Harry E.: *See*—
Hartman, George L., and Bradford. 3,042,141.

Bradford, Henry K., to Outlook Engineering Corp. Acceptance circuits. 3,047,811, 7–31–62, Cl. 328—142.

Bradford, John R., to Farrington Mfg. Co. Erasure-proof card. 3,034,430, 5–15–62, Cl. 101—369.

Bradford, Kenneth C. Food package. 3,054,679, 9–18–62, Cl. 99—171.

Bradford, Paul E.: *See*—
Damaskus, Charles W., and Bradford. 3,050,445.

Bradford, Paul E., C. W. Damaskus, and J. B. Lesh, to Armour-Pharmaceutical. Stabilized chymotrypsin solution. 3,051,627, 8–28–62, Cl. 195—63.

Bradford, Purdy, to Swift & Co. Agglomeration of spray-dried materials. 3,039,107, 6–12–62, Cl. 159—48.

Bradicich, John B.: *See*—
Twitchell, Sherman W., and Bradicich. 3,016,240.
Twitchell, Sherman W., and Bradicich. 3,046,848.

Bradley, Billie J., to Halliburton Co. Well packer. 3,044,553, 7–17–62, Cl. 166—187.

Bradley, Caton. Electric motor and governing means therefor. 3,067,371, 12–4–62, Cl. 318—330.

Bradley, Charles J. Pipe plug. 3,039,494, 6–19–62, Cl. 138—89.

Bradley, Cortez J. Baseboard duster and applicator. 3,042,952, 7–10–62. Cl. 15—210.

Bradley, Donald G., to Imperial Chemical Industries Ltd. Winding apparatus. 3,018,973, 1–30–62, Cl. 242—18.

Bradley, Donald R., to E. I. du Pont de Nemours, and Co. Modification of crimp of composite acrylic fibers. 3,065,042, 11–20–62, Cl. 18—54.

Bradley, Edward M., to International Computers and Tabulators Ltd. Magnetic data storage devices. 3,048,829, 8–7–62, Cl. 340—174.

Bradley Industries, Inc.: *See*—
Svoboda, George, Jacobsen, and Nozette. 3,061,137.

Bradley, James W., L. W. Elston, and W. H. Burrows, to Photo-Engravers Research, Inc. Powderless etching of copper photoengraving plates. 3,033,793, 5–8–62, Cl. 252—79.4.

Bradley, John K., T. P. Dee, and W. F. Sheldrick, to Fisons Ltd. Production of a complex fertilizer. 3,047,379, 7–31–62, Cl. 71—37.

Bradley, John K., G. G. Brown, and W. F. Sheldrick, to Fisons Ltd. Process for the production of fertilizer materials. 3,049,417, 8–14–62, Cl. 71—37.

Bradley, John M.: *See*—
Antonsen, Randolph, Bradley, and Beattie. 3,068,089.

Bradley, John M., to Cabot Corp. Continuous curing of polymeric materials. 3,051,992, 9–4–62, Cl. 18—53.

Bradley, Kenneth B.: *See*—
Sloane, Howard J., and Bradley. 3,022,353.

Bradley, Norman, and J. Jones, to United Kingdom Atomic Energy Authority. Lifting devices. 3,039,811, 6–19–62, Cl. 294—83.

Bradley, Percy G. Bird-retrieving grapple. 3,044,205, 7–17–62, Cl. 43—1.

Bradley, Richard D. Process for protection against electrolytic corrosion of vessel hulls and the like in fresh water. 3,020,216, 2–6–62, Cl. 204—23.

Bradley, Robert O., to Toledo Scale Corp. Drive for moving stairways. 3,052,133, 9–4–62, Cl. 74—243.

Bradley, Robert R. Marker buoy for sunken objects. 3,056,978, 10–9–62, Cl. 9—9.

Bradley, Robert W.: *See*—
Anderson, George O., and Bradley. 3,054,314.
Miller, Lloyd G., and Bradley. 3,055,323.

Bradley, Robert W., and L. G. Miller, to United Shoe Machinery Corp. Feeler controls for operation performing machines. 3,031,986, 5–1–62, Cl. 112—44.

Bradley, Robert W., and L. G. Miller, to United Shoe Machinery Corp. Thread break safety device for shoe machines with automatic welt severing mechanisms. 3,031,987, 5–1–62, Cl. 112—46.

Bradley, Theodore F., and H. J. Sommer, to Shell Oil Co. Compositions containing epoxy esters and bituminous materials. 3,015,635, 1–2–62, Cl. 260—18.

Bradley & Vrooman Co.: *See*—
Edwards, Hugh. 3,035,939.

Bradley Washfountain Co.: *See*—
Booker, Robert J., and Mullett. 3,045,250.

Bradley, William D., to Philco Corp. Electro-optical signal transducer system. 3,027,219, 3–27–62, Cl. 346—110.

Bradley, William H.: *See*—
McConnell, William M., Bradley, Carey, and Chappell. 3,039,584.

Bradley, William J., to Earth Equipment Corp. Trenching machine drive transmission. 3,022,585, 2–27–62, Cl. 37—86.

Bradley & Williams, Inc.: *See*—
Williams, Craig V., and Lippincott. 3,054,572.

Bradley, Wilson, Jr., to Endevco Corp. High capacity accelerometer. 3,060,333, 10–23–62, Cl. 310—8.4.

Bradmiller, Edwin W., to J. C. Doty, to Harris-Intertype Corp. Sheet feeding apparatus. 3,037,665, 6–5–62, Cl. 221—251.

Bradmiller, Richard W.: *See*—
Plogstedt, Allen E., and Bradmiller. 3,070,757.

Bradner Bros., Inc., to Presto Corp. Clips for securing lids to pails. 3,035,860, 5–22–62, Cl. 292—258.

Bradsby, Thomas R. Magnetic picture hanger. 3,031,799, 5–1–62, Cl. 50—22.

Bradshaw & Co.: *See*—
Bradshaw, Grant D. 3,053,247.

Bradshaw, William D., to Bradshaw & Co. Method of and apparatus for elimination of condensate in compressed gases. 3,053,247, 9–11–62, Cl. 126—110.

Bradshaw, Harold G., and M. I. Sanderson, to Cochran Equipment Co. Field packing apparatus. 3,058,278, 10–16–62, Cl. 53—391.

Bradshaw, Harold G., J. W. Guthrie, and H. H. Shaw, to Cochran Equipment Co. Cargo transporting vehicle with extendible conveyor. 3,066,817, 12–4–62, Cl. 214—522.

Bradshaw, Robert S., to Burroughs Corp. Sheet handling apparatus. 3,070,204, 12–25–62, Cl. 197—130.

Bradshaw, Robert S., and R. Lessig, to Burroughs Corp. Sheet feeding system. 3,048,394, 8–7–62. Cl. 271—62.

Bradstreet, John L. Portable machine for reconditioning farm implement discs while on the implement structure. 3,028,769, 4–10–62, Cl. 76—89.2.

Bradt, Florence A. Process for separation of liquid from liquid-solid mixtures of fine solid particle size. 3,053,761, 9–11–62, Cl. 210—44.

Bradt, Rexford, to Fiberfil Corp. Apparatus and method for producing reinforced molding composition. 3,042,570, 7–3–62. Cl. 156—180.

Bradwell, Frederick W. Ore and stone jaw crushing machines. 3,033,476, 5–8–62, Cl. 241—219.

Brady, Charles E.: *See*—
Beatty, Howard W., Jr., and Brady. 3,049,141.

Brady, Charles V.: *See*—
Ottinger, August F., and Brady. 3,055,576.

Brady, Charles V., to Bemis Bro. Bag Co. Bags. 3,067,926, 12–11–62, Cl. 229—55.

Brady, Derek J.: *See*—
Kocay, Witold R., and Brady. 3,048,539.

Brady, Irving E., to The Sierracin Corp. Transparent, electrically conductive enclosure. 3,041,436, 6–26–62, Cl. 219—19.

Brady, James D., to E. I. du Pont de Nemours and Co. Telomers of tetrafluoroethylene. 3,067,262, 12–4–62, Cl. 260—653.1.

Brady, John G.: *See*—
Fearing, Ralph B., Walsh, and Brady. 3,020,198.
Walsh, Edward N., and Brady. 3,034,951.

Brady, Joseph M., and T. C. Wright, to International Resistance Co. Mounting bracket for electrical components. 3,060,349, 10–23–62, Cl. 317—99.

Brady, Jules L.: *See*—
Towne, Claude M., and Brady. 3,025,619.
Brady, Keith G.: *See*—
Brown, Robert B., Brady, and Sanders. 3,033,490.
Brady, Kenneth J., and L. R. Hawk, to Eggo Food Products, Inc. Metering device. 3,037,674, 6–5–62, Cl. 222—319.
Brady, Leonard E.: *See*—
Abood, Leo G., and Brady. 3,053,736.
Brady, Robert E.: *See*—
Ferlin, Henry J., Brady and Merwin. 3,051,551.
Brady, Samuel G., and W. Draile, to Ex-Cell-O Corp. Helical gear or spline grinder. 3,024,577, 3–13–62, Cl. 51—95.
Brady, Thomas J., and V. R. Schulze. Applicator container. 3,069,718, 12–25–62, Cl. 15—571.
Brady, W. H., Co.: *See*—
Tobey, Frederic S. 3,016,009.
Brady, William, to Wilmot-Breeden Ltd. Actuating mechanisms for vehicle door fastenings. 3,038,748, 6–12–62, Cl. 292—336.3.
Brady, William, to Wilmot-Breeden Ltd. Actuating mechanisms for vehicle door fastenings. 3,041,100, 6–26–62, Cl. 292—336.3.
Brady, William H., Jr. Multiple manipulation backing-board-mounted adhesive tape. 3,038,597, 6–12–62, Cl. 206—56.
Braendel, Felix W., and R. W. Bosse, to Groov-Pin Corp. Insert tapping machine with work clamp means reciprocable between feed stud tapping stations. 3,015,117, 1–2–62, Cl. 10—129.
Braendlein, Robert K.: *See*—
Arnberg, Benjamin T., Braendlein, and Starbuck. 3,029,601.
Braeuninger, Karl F.: *See*—
Altwicker, Hubert J., and Braeuninger. 3,059,768.
Braf, G., Co., Inc.: *See*—
Haff, Frederick, Jr. 3,069,058.
Braga, Albert T., and J. R. Hilmanowski, to Whirlpool Corp. Detergent dispenser for washing machine. 3,038,640, 6–12–62, Cl. 222—70.
Braga, Armando, to Reiner Industries, Inc. Spring clip. 3,047,927, 8–7–62, Cl. 24—252.
Bragdon, Robert W.: *See*—
Kollonitsch, Janos, and Bragdon. 3,063,791.
Bragg, Kenneth R., to Parker-Hannifin Corp. Flow limiting valve. 3,057,373, 10–9–62, Cl. 137—521.
Bragg, Russell L.: *See*—
Palm, Clifford W., and Bragg. 3,022,563.
Braggiotti, Edoardo: *See*—
Buergel, George K. and A., and E. and M. R. Braggiotti. 3,042,096.
Braggiotti, Mary R.: *See*—
Buergel, George K. and A., and E. and M. R. Braggiotti. 3,042,096.
Braginetz, Paul A., to Capitol Products Corp. Rolling door-lock hardware. 3,025,693, 3–20–62, Cl. 70—100.
Braginetz, Paul A., to Capitol Products Corp. Swing door latch-lock mechanism. 3,045,464, 7–24–62, Cl. 70—144.
Braha, Nessim R. Book holder. 3,029,548, 4–17–62, Cl. 45—85.
Brähler, Berthold: *See*—
Reese, Johannes, and Brähler. 3,023,209.
Brahm, Charles B., to United Aircraft Corp. Quadrature stripping circuit. 3,025,418, 3–13–62, Cl. 307—88.5.
Brahm, Charles B., to United Aircraft Corp. Transistor demodulator. 3,042,872, 7–3–62, Cl. 329—50.
Brahm, Charles B., to United Aircraft Corp. Control system having an amplifier with variable sensitivity. 3,045,126, 7–24–62, Cl. 60—39.28.
Brahm, Charles B., to United Aircraft Corp. Air conditioning overload protector. 3,057,170, 10–9–62, Cl. 62—209.
Brahos, Nicholas G. Surgical retractor device. 3,070,088, 12–25–62, Cl. 128—20.
Braibanti, Giuseppe: *See*—
Braibanta, Mario and G. 3,035,532.
Braibanti, Mario and G. Automatic machine for the continuous production of alimentary paste. 3,035,532, 5–22–62, Cl. 170—30.
Braid, Milton: *See*—
Hauptschein, Murray, and Braid. 3,047,636.
Hauptschein, Murray, Braid, and Lawlor. 3,019,258.
Hauptschein, Murray, Braid, and Lawlor. 3,051,764.
Braid, Milton, and F. Lawlor, to Pennsalt Chemicals Corp. Catalyzed oxidation of trifluoroethanol. 3,038,936, 6–12–62, Cl. 260—531.
Braid, Ralph A., to Harvey Machine Co., Inc. Projectile construction. 3,019,733, 2–6–62, Cl. 102—91.
Braidich, Emery V.: *See*—
Gmitter, George T., and Braidich. 3,050,477.
Brailsford, Harrison D. Effluent sampler. 3,059,586, 10–23–62, Cl. 103—159.
Brainard, Benson C. Spray head. 3,032,276, 5–1–62, Cl. 239—327.
Brainard, Edward C., II: *See*—
Ferran, Robert J., and Brainard. 3,068,693.
Brainard, Edward C., II, to Braincon Corp. Retrieving vessel and launcher therefor. 3,026,545, 3–27–62, Cl. 9—14.
Brainard, Maurice W. Heating and freezing system. 3,015,939, 1–9–62, Cl. 62—156.
Brainard, Wallace E., to Kearney & Trecker Corp. Machine slide position error sensing and compensating mechanism. 3,045,510, 7–24–62, Cl. 77—5.
Brainard, Wallace E., J. A. Hansen, R. K. Sedgwick, C. R. Sipek, and H. J. Baechle, to Kearney & Trecker Corp. Machine tool with a mechanical cutting tool changer. 3,052,011, 9–4–62, Cl. 29—26.
Brainard, Wallace E., J. A. Hansen, R. K. Sedgwick, and C. R. Sipek, to Kearney & Trecker Corp. Machine tool indexing and pallet clamping mechanism. 3,054,333, 9–18–62, Cl. 90—56.
Braincon Corp.: *See*—
Brainard, Edward C., II.
Brainerd, Gideon R., to Westinghouse Electric Corp. Control circuit for electroluminescent cell. 3,026,440, 3–20–62, Cl. 313—108.
Braitberg, Leo D.: *See*—
Sifferd, Robert H., and Braitberg. 3,066,164.
Braithwaite, Charles, to Licentia Patent-Verwaltungs-G.m.-b.H. Control drive. 3,037,355, 6–5–62, Cl. 60—97.
Braithwaite, David G., E. H. McGrew, W. P. Hettinger, Jr., and J. S. D'Amico, to Nalco Chemical Co. Catalysts and process for the preparation thereof. 3,034,994, 5–15–62, Cl. 252—453.
Braithwaite, David G., E. H. McGrew, W. P. Hettinger, Jr., and J. S. D'Amico, to Nalco Chemical Co. Silica-alumina hydrogen-kaolinite catalysts and process for preparation thereof. 3,034,995, 5–15–62, Cl. 252—455.
Braitsch, Eugen. Concrete or mortar mixer. 3,048,377, 8–7–62, Cl. 259—161.
Braitsch, Otto: *See*—
Junghans, Helmut, Braitsch, and Schlenker. 3,022,627.
Brake & Automotive Sales: *See*—
Bonkowski, Teofil L. 3,025,645.
Brake and Bearing Service Co., Inc.: *See*—
Kuttler, Joseph. 3,023,829.
Brakel, Lemuel H., and J. B. Jones, Jr., to Cameron and Jones, Inc. Circular shaft kiln discharge grate. 3,027,147, 3–27–62, Cl. 263—29.
Brakeley, Paul W., to Johns-Manville Corp. Apparatus and method for forming floor tile. 3,020,584, 2–13–62, Cl. 18—2.
Brakeside International, S.A.: *See*—
Prendergast, Charles S. 3,016,017.
Bralley, James A., and H. Wolff, to A. E. Staley Mfg. Co. Polymers for polyepoxy acid esters and boric acid. 3,030,-392, 4–17–62, Cl. 260—398.
Bram, Walter, to Palz-Holding A.G. Stroke counter. 3,040,-981, 6–26–62, Cl. 235—91.
Bram, Walter, to Palz-Holding A.G. Pressure device for a flat bed knitting machine. 3,049,900, 8–21–62, Cl. 66—60.
Brame, Arthur A., to Brame Textile Machine Co. Flyers for textile machines. 3,019,590, 2–6–62, Cl. 57—115.
Brame, Arthur A., and F. A. Wilkins, to The Brame Textile Machine Co. Yarn package protective adapter. 3,043,536, 7–10–62, Cl. 242—128.
Brame Textile Machine Co.: *See*—
Brame, Arthur A. 3,019,590.
Brame, Arthur A., and Wilkins. 3,043,536.
Brainer, Danny, Enterprises: *See*—
Adachi, Nobuzo. 3,062,478.
Bramley, Anthony. Bedding. 3,066,646, 12–4–62, Cl. 119—28.
Bramley, Lionel N., to The British Iron & Steel Research Association. Remote control. 3,017,551, 1–16–62, Cl. 318—21.
Bramley, Lionel N., to British Iron & Steel Research Association. Manual and automatic position control systems. 3,036,253, 5–22–62, Cl. 318—29.
Bramley, Robert K., to W. S. West. Braking system. 3,061,-049, 10–30–62, Cl. 188—21.
Bramming, Carl, to Aladdin Industries, Inc. Vacuum bottles with plastic liners. 3,016,159, 1–9–62, Cl. 215—13.
Bramming, Carl, to Aladdin Industries, Inc. Vacuum bottle jacket construction. 3,028,984, 4–10–62, Cl. 215—13.
Bramming, Carl, to Aladdin Industries, Inc. Collar and jacket construction for vacuum bottles. 3,047,175, 7–31–62, Cl. 215—13.
Bramming, Carl, to Aladdin Industries, Inc. Retained stoppers for vacuum bottles, carafes or the like. 3,070,250, 12–25–62, Cl. 215—13.
Branagan, Edward F., to United States of America, Navy. Variable transconductance electron tube. 3,049,671, 8–14–62, Cl. 328—158.
Brancato, Leo J., to Heli-Coil Corp. Wire coil thread connection in soft materials. 3,018,684, 1–30–62, Cl. 85—1.
Brancato, Leo J., to Heli-Coil Corp. Method of producing self locking wire inserts. 3,031,004, 4–24–62, Cl. 153—2.
Brancato, Leo J., to Heli-Coil Corp. Assembly tool for external screw thread wire coil elements. 3,040,423, 6–26–62, Cl. 29—240.5.
Branch, Garland M., Jr., to General Electric Co. Slow wave structures. 3,050,657, 8–21–62, Cl. 315—3.6.
Brand, Charles H. Adjustable support for automotive lift jacks. 3,028,145, 4–3–62, Cl. 254—134.
Brand, Ernst M.: *See*—
Powell, Roger F., Martin, Lurie, Nichol, and Brand. 3,031,461
Powell, Roger F., Martin, Lurie, Nichol, and Brand. 3,034,648.
Brand, Harry R., and E. I. Schefer, to Sylvania Electric Products Inc. Nuclear fuel element and method of manufacture. 3,028,326, 4–3–62, Cl. 204—154.2.
Brand, John R., to E. I. du Pont de Nemours and Co. Quenching chamber. 3,067,459, 12–11–62, Cl. 18—8.

Brand, Karl. Valve, particularly for hydraulic control systems. 3,033,230, 5–8–62, Cl. 137—512.

Brand, Samuel. Magnetic data recording means. 3,045,218, 7–17–62, Cl. 340—174.1

Brand, William D., and H. S. Montgomery, to Cutler-Hammer, Inc. Conveyor system. 3,034,634, 5–15–62. Cl. 198—38.

Brand, William D., R. J. Byrnes, and H. S. Montgomery, to Cutler-Hammer, Inc. Article conveyor. 3,055,479, 9–25–62, Cl. 198—34.

Brandeis, Harold. Paint roller. 3,023,443, 3–6–62, Cl. 15—230.

Brandell, John R. Game device. 3,030,113, 4–17–62, Cl. 273—179.

Brandenberg, Karl A., to Square D Co. Electrical switch. 3,024,333, 3–6–62, Cl. 200—159.

Brandenburg, Henry L. : *See*—
Pessl, Hubert J., Brandenburg, and Coleman.

Brandenburg, Henry L., and R. Lavender, to Hupp Corp. Welding apparatus. 3,063,393, 11–13–62, Cl. 113—136.

Brandenberg, John F., and P. G. Gordon, to Standard Oil Co. Process and compositions for stabilizing the thermal generation of pesticidal fogs. 3,039,921, 6–19–62, Cl. 167—39.

Brandes, Frank A., Jr., to F. A. Brandes, Sr. Method and blank for progressive die shaping of sheet-like stock. 3,034,466, 5–15–62, Cl. 113—116.

Brandes, Frank A., Sr. : *See*—
Brandes, Frank A., Jr. 3,034,466.
Paquay, David C. 3,023,976.

Brandes, Paul H., and H. M. Kiley, to Caterpillar Tractor Co. Combustion and precombustion chambers for compression ignition engines. 3,035,555, 5–22–62, Cl. 123—32.

Brandin, Johan A. I. Valve for refrigerating medium evaporators. 3,020,729, 2–13–62, Cl. 62—218.

Brandizzi, Manlio. Record stack height compensating mechanism for the needle of tone arm of automatic record changers. 3,042,410, 7–3–62, Cl. 274—10.

Brandle, Heinrich, and R. Wideroe, to Aktiengesellschaft Brown, Boveri & Cie. Flaw detection apparatus including means for emphasizing video signal intensifying variations. 3,030,442, 4–17–62, Cl. 178—6.8

Brandli, Ulrich, to Elektrochemie Turgi. Process for the production of paraperiodic acid. 3,036,886, 5–29–62, Cl. 23—152.

Brandner, Erika : *See*—
Diekermann, Friedrich-Wilhelm. 3,063,119.

Brandner, John D. : *See*—
Baer, Byron N. Brandner, and Le Maistre. 3,031,320.
Wright, Leon W., and Brandner. 3,023,223.

Brandner, John D., to Atlas Chemical Industries, Inc. Hydraulic fluid composition and thickening agent therefor. 3,061,547, 10–30–62, Cl. 252—77.

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Brandon, Chester : *See*—
Timm, Lewis W., Case, and Brandon. 3,042,297.

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Brandon, Denys F. : *See*—
Gorham, William F., and Brandon. 3,026,307.

Brandon Equipment Co., Inc. : *See*—
McDowell, Thomas E. 3,041,027.
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Packard, Durward I. 3,044,420.

Brandon, Ira M., Jr. Coupling assembly. 3,041,088, 6–26–62, Cl. 285—33.

Brandon, James C., Jr., T. H. Frank, Jr., and R. H. Rahiser, to Magnetics, Inc. Apparatus for encasing magnetic cores. 3,018,455, 1–23–62, Cl. 336—100.

Brandon, Orpha B. : *See*—
Brandon, Clarence W. 3,042,115.
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Brandon, Percy S. : *See*—
Wright, Peter M., and Brandon. 3,054,104.

Brandon, Percy S., and P. M. Wright, to Marconi's Wireless Telegraph Co. Ltd. Frequency modulated radar with reduced scanning time. 3,070,794, 12–25–62, Cl. 343—14.

Brandon, Richard N., to Reynolds Metals Co. Collapsible carrying case. 3,027,046, 3–27–62, Cl. 220—111.

Brandon, Richard N., to Reynolds Metals Co. Carrying case for bottles and the like. 3,029,970, 4–17–62, Cl. 220—21.

Brandon, Theodore A. : *See*—
Rambo, William H., and Brandon. 3,031,061.

Brands, John T., to Minneapolis-Honeywell Regulator Co. Control apparatus. 3,033,496, 5–8–62, Cl. 244—77.

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Brandstetter, Hugo E. Suspended ceiling structure. 3,023,-865, 3–6–62, Cl. 189—88.

Brandstrom, Arne E., to Hassle, Apotekare Paul Nordstroms, Aktiebolaget. 4-acyl-3,6-endomethylene-1-cyclohene-4-carboxamide. 3,068,284, 12–11–62, Cl. 260—557.

Brandt Automatic Cashier Co. : *See*—
Buchholz, Arnold R., and Evans. 3,023,755.
Buchholz, Arnold R., and Haban. 3,020,916.
Buchholz, Arnold, Haban, and Weeks. 3,016,191.
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Brandt, Carl R., to Minneapolis-Honeywell Regulator Co. Compensating apparatus. 3,045,489, 7–24–62, Cl. 73—393.

Brandt, Carl T., to Phillips Petroleum Co. Method for developing cavities in soluble formations. 3,022,986, 2–27–62, Cl. 262—3.

Brandt, Donald R. : *See*—
Safianoff, Albert, Barr, and Brandt. 3,061,152.

Brandt, Edgar W., to Anstalt Fur die Entwicklung Von Erfindungen und Gewerblichen Anwendungen Energa. Projectile projectile. 3,064,577, 11–20–62, Cl. 102—92.5.

Brandt, Fritz, H. Nees, and K. Liebrecht, to Chemische Fabrik Kalk G.m.b.H. Process for the disintegration of crude phosphates with mineral acids. 3,032,407, 5–1–62, Cl. 71—37.

Brandt, George P. : *See*—
Eads, David K., and Brandt. 3,057,924.

Brandt, Gottlieb, and W. J. Wojciechowski, to Harris-Intertype Corp. Printing press and sheet control device therefor. 3,039,388, 6–19–62, Cl. 101—232.

Brandt, Hans A. : *See*—
Wick, Richard, and Brandt. 3,043,218.

Brandt, Hans-Ado : *See*—
Wagner, Ferdinand, Brandt, and Müller. 3,048,220.

Brandt, Harold H. : *See*—
Weiner, Louis I., and Brandt. 3,032,072.

Brandt, Herbert. Rotary regenerative heat exchanger including a flexible rotary construction and an improved roller support therefor. 3,061,275, 10–30–62, Cl. 257—268.

Brandt, Herbert, to Getriebewerk Leipzig, VEB. Power drive for four axle vehicle. 3,051,256, 8–28–62, Cl. 180—24.

Brandt, Herbert, to Getriebewerk Leipzig, VEB. Crane drives. 3,051,390, 8–28–62, Cl. 212—38.

Brandt, Herman L., to United States of America, Atomic Energy Commission. Reconditioning fuel elements. 3,022,-160, 2–20–62, Cl. 75—97.

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Brandt, Milbur M. : *See*—
Tranas, Nicolai H. 3,024,049.

Brandt, Milton L. : *See*—
Zolezzi, Walter M., and Brandt. 3,031,310.

Brandt, Peter-Markus : *See*—
Behnss, Albert, Kolzow, and Brandt. 3,066,761.

Brandt, Preston L., and C. N. Sechrist, to Standard Oil Co. Method of operating spark-ignition combustion engine. 3,030,939, 4–24–62, Cl. 123—1.

Brandt, Robert J. Device for extracting fumes from liquid fuel storage containers. 3,016,928, 1–16–62, Cl. 141—45.

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Brandt, William O. : *See*—
Anderson, William D., Brandt, Le Clercq, and Fargo. 3,016,598.

Brandt, Wilhelm, to Kalle Aktiengesellschaft. Process for improving the adhesion of flat-shaped bodies made of polyterephthalic acid glycol esters. 3,022,192, 2–20–62, Cl. 117—47.

Brandys, Roman A., to Bell & Howell Co. Apparatus for soldering. 3,059,604, 10–23–62, Cl. 113—126.

Branick, Charles E. Method of and apparatus for forming wrappers for articles of annular shape. 3,032,818, 5–8–62, Cl. 18—19.

Branick, Charles E. Tire spreader. 3,036,815, 5–29–62, Cl. 254—50.3.

Branick, Charles E. Tire bead spacing and supporting element. 3,044,609, 7–17–62, Cl. 206—46.

Branick, Charles E. Device for inverting pneumatic tire casings. 3,044,748, 7–17–62, Cl. 254—50.3.

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Branitzky, Abraham. Antiskid devices for vehicle wheels. 3,020,948, 2–13–62, Cl. 152—233.

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Brann, Edward J., to Royal McBee Corp. Type bar support. 3,042,176, 7–3–62, Cl. 197—42.

Brannan, Walter F. Direct action tail gate actuating mechanism. 3,032,214, 5–1–62, Cl. 214—77.

Brannock, Kent C.: *See*—
Martin, James C., and Brannock. 3,043,791.
Martin, James C., and Brannock. 3,053,679.
Martin, James C., and Brannock. 3,062,852.
Brannon, Edward O.: *See*—
Henke, Russell W., Brannon, Hellenberg, and Dalan. 3,057,161.
Bransford, Ernest O., Jr., to Beaman Corp. Friction pivot block for projected type windows and the like. 3,020,604, 2–13–62, Cl. 20—42.
Bransford, Ernest O., Jr., to Beaman Corp. Snap-in panel clip. 3,020,988, 2–13–62, Cl. 189—88.
Branson, Charles D.: *See*—
Weber, Branson, and Beal. 3,044,299.
Weber, Victor, and Branson. 3,042,110.
Willson, James R., and Branson. 3,050,255.
Branson Instruments, Inc.: *See*—
Branson, Norman G. 3,066,232.
Cronin, William F. 3,049,912.
Henry, Elliott A. 3,033,328.
Henry, Elliott A. 3,048,795.
Hightower, Frank W., and Bleistein. 3,033,710.
Branson, Norman G., to Branson Instruments, Inc. Ultrasonic transducer. 3,066,232, 11–27–62 Cl. 310—8.7.
Brant, David G.: *See*—
Morton, Eugene A., and Brant. 3,044,139.
Brant, David O. Coffee maker. 3,063,359, 11–13–62, Cl. 99—287.
Brantley, John C., to Union Carbide Corp. Preparation of organo-transition element compounds. 3,028,406, 4–3–62, Cl. 260—439.
Braun, Philip L., to Simoniz Co. Paraffin wax, oxidized wax and polyethylene polishing composition. 3,067,156, 12–4–62, Cl. 260—28.5.
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Brasen, Wallace R., and E. G. Howard, Jr., to E. I. du Pont de Nemours and Co. 1-amino-7-imino-1,3,5-cycloheptatrienes and chelates thereof. 3,052,705, 9–4–62, Cl. 260—439.
Brash, Leslie O., to The Babcock & Wilcox Co. Fluid heater tube platen supports. 3,055,348, 9–25–62, Cl. 122—510.
Brashear, Roy T., to Phillips Petroleum Co. Thermochromatographic analyzer heater. 3,023,835, 3–6–62, Cl. 183—2.
Brashear, Turner G., Jr., and F. Leader, to L & B Welding Equipment, Inc. Link track refacing apparatus. 3,019,328, 1–30–62, Cl. 219—125.
Brashear, Turner G., Sr., to L & B Welding Equipment, Inc. Current controllable alternating current relay circuit. 3,024,353, 3–6–62, Cl. 219—130.
Brasic, William C., to The Dow Chemical Co. Extrusion die. 3,060,505, 10–30–62, Cl. 18—12.
Brasington, Richard C.: *See*—
Lynch, John E., Brennan, and Brasington. 3,018,698.
Braski, Raymond J., and W. W. Krause, to Webcor, Inc. Thermostat. 3,019,320, 1–30–62, Cl. 200—136.5.
Brass, Edward A., to Avco Corp. Recirculating lubrication system. 3,051,533, 8–28–62, Cl. 308—187.
Brass, Edward A., to Avco Corp. Two-stage split-power reduction gear. 3,062,073, 11–6–62, Cl. 74—674.
Brass, Michele, to Piorvit S.r.l. Injection and vacuum cleaner for dental therapeutics. 3,065,749, 11–27–62, Cl. 128—224.
Brass Ram Corp.: *See*—
Piechowski, Keith A. 3,053,539.
Brass, Robert L., to Bell Telephone Laboratories, Inc. Semiconductor hall effect devices. 3,050,698, 8–21–62, Cl. 332—51.
Brasseur, Bernard, G. Le Gargasson, and J. R. Perilhou, to North American Philips Co., Inc. Device for determining the content of water vapour in a gas flow. 3,046,098, 7–24–62, Cl. 23—254.
Brastad, William A., E. F. Diekhoff, and S. C. Rustad, to General Mills, Inc. Sifter. 3,021,953, 2–20–62, Cl. 209—339.
Brasty, Joseph, to D. & W. Mfg. Co., Inc. Self-locking pole clip. 3,064,933, 11–20–62, Cl. 248—230.
Brasure, Donald E., and R. D. Pruett, to E. I. du Pont de Nemours, and Co. Process comprising milling silica with a polymer containing a plurality of carboxylic acid ester side groups. 3,035,002, 5–15–62, Cl. 260—23.
Brasure, Donald E., to E. I. du Pont de Nemours and Co. Laminated structures and process. 3,054,703, 9–18–62, Cl. 154—43.
Bratenahl, Alexander: *See*—
Baker, William R., Bratenahl, and Furth. 3,029,199.
Baker, William R., Bratenahl, and Kunkel. 3,021,272.
Bratkowski, Walter V., and W. H. Fischer, to Westinghouse Electric Corp. Brazing dissimilar metals. 3,055,098, 9–25–62, Cl. 29—492.
Bratland, Gustave C., and C. E. Johnson. Anchor for decoys. 3,050,895, 8–28–62, Cl. 43—3.
Bratt, Axel E., to Svenska Kullagerfabriken, Aktiebolaget. Cage for rolling bearings. 3,050,353, 8–21–62, Cl. 308—217.
Bratt, Axel E., and K. G. E. Derman, to Aktiebolaget Svenska Kullagerfabriken. Cage for double row spherical roller bearings. 3,022,125, 2–20–62, Cl. 308—213.
Brattain, Walter H., and N. G. Wade, 3rd, to Bell Telephone Laboratories, Inc. Scanning infra-red detector and recorder. 3,022,374, 2–20–62, Cl. 178—6.6.
Bratton, Edward W., to The Carborundum Co. Sectional coated abrasive belt and process of making the same. 3,053,020, 9–11–62, Cl. 51—188.
Bratun, Joseph. Windrower. 3,057,143, 10–9–62, Cl. 56—345.
Bratz, Otto J., to American Chain & Cable Co., Inc. Push-pull cable. 3,015,969, 1–9–62, Cl. 74—501.
Bratz, Otto J., and W. J. Gilmore, to American Chain & Cable Co., Inc. Boat steering devices. 3,021,722, 2–20–62, Cl. 74—501.
Braunbehler, Charles A. Method of making extruded tubes from powdered metal. 3,066,403, 12–4–62, Cl. 2—420.5.
Braude, George L., and J. A. Cogliano, to W. R. Grace & Co. Manufacture of chloramine. 3,038,785, 6–12–62, Cl. 23—190.
Brauer, Edwin H., Jr., to The Osborn Mfg. Co. Work turnover mechanism. 3,017,647, 1–23–62, Cl. 15—21.
Brauer, Edwin H., Jr., to The Osborn Mfg. Co. Work load and unload device. 3,044,090, 7–17–62, Cl. 15—21.
Brauer, Edwin H., Jr., and G. J. Janke, to The Osborn Mfg. Co. Brushing machine. 3,024,483, 3–13–62, Cl. 15—21.
Brauer, Edwin H., Jr., and G. J. Janke, to The Osborn Mfg. Co. Expanding chuck. 3,026,115, 3–20–62, Cl. 279—2.
Brauer, Karl O. Galloping toy horse. 3,046,030, 7–24–62, Cl. 280—1.177.
Brauer, Walter. Structural panel. 3,023,489, 3–6–62, Cl. 29—180.
Brault, Andre R., to Optomechanisms, Inc. Optical measuring means. 3,056,207, 10–2–62, Cl. 33—72.
Brault, Yves, and J. Cauchois, to Compagnie Generale de Telegraphie Sans Fil. Electromagnetic detector devices. 3,018,477, 1–23–62, Cl. 343—7.7.
Braumann, Gundokar, to Siemens & Halske Aktiengesellschaft. Electromagnetic relay. 3,053,953, 9–11–62, Cl. 200—103.
Braun, Adolph F. General Motors Corp. Throttle actuator. 3,022,849, 2–27–62, Cl. 180—77.
Braun Aktiengesellschaft: *See*—
Futterer, Bodo, and Scholzel. 3,064,349.
Braun Bros. Packing Co., The: *See*—
Gelman, Walter C. 3,042,049.
Braun, Carl, Cameravaerk: *See*—
Werrmann, Gerhard. 3,041,950.
Braun, Dieter, to Fortuna-Werke Spezialmaschinenfabrik A.G. Suction stripping arrangement for transporting rollers. 3,028,743, 4–10–62, Cl. 69—10.
Braun, Dieter, to Fortuna-Werke Spezialmaschinenfabrik A.G. Guide apparatus for cutter bands. 3,068,734, 12–18–62, Cl. 83—582.
Braun, Edward H. Method for controlling the speed of a motion picture projector. 3,025,751, 3–20–62, Cl. 88—18.2.
Braun, Franz, and E. Haack, to C. F. Boehringer & Soehne G.m.b.H. Processes for converting L-erythro-5-amino-6-phenyl dioxane to the corresponding L-erythro dioxane. 3,026,328, 3–20–62, Cl. 260—340.7.
Braun, Gunther: *See*—
Bahr, Ulrich, Andres, and Braun. 3,027,349.
Holtschmidt, Hans, and Braun. 3,054,756.
Muller, Erwin, Wiegand, and Braun. 3,050,475.
Muller, Erwin, Holtschmidt and Braun. 3,021,289.
Muller, Karl E., Holtschmidt, Morschel, and Braun. 3,026,275.
Braun, Herbert J., R. F. Mallina, and R. W. McKenzie, to Bell Telephone Laboratories, Inc. Modifying the terminations of electrical components. 3,054,165, 9–18–62, Cl. 29—155.55.
Braun, Howard E., to General Electric Co. Linear motion-producing device with lock. 3,020,888, 2–13–62, Cl. 121—40.
Braun, Karl J., to A. Kimball Co. Record perforating machines. 3,017,076, 1–16–62, Cl. 234—78.
Braun, Karl J., to A. Kimball Co. Hand punches. 3,051,374, 8–28–62, Cl. 234—45.
Braun, Karl J., and R. W. Churchill, to A. Kimball Co. Record analyzing apparatus. 3,027,071, 3–27–62, Cl. 235—61.11.
Braun, Karl J., and L. Cetran, to A. Kimball Co. Record decoding apparatus. 3,036,764, 5–29–62, Cl. 235—61.11.
Braun, Marinus J., to Air Reduction Co., Inc. Resistor terminal. 3,057,081, 10–9–62, Cl. 338—333.
Braun, Max, Firma: *See*—
Hasselbach, Wolfgang, Bauer, and Scherer. 3,027,164.
Braun, Paul. Tape threading device. 3,062,468, 11–6–62, Cl. 242—74.
Braun, Philip N. Garment marking machine. 3,022,711, 2–27–62, Cl. 93—88.
Braun, Philip N., and J. F. Filsinger, said Filsinger assor. to said Braun. Textile repair machine. 3,035,591, 5–22–62, Cl. 100—93.
Braun, Poul B.: *See*—
Jonker, Gerard H., and Braun. 3,020,235.
Braun, Ralph V., to Kimberly-Clark Corp. Manufacture of cellulosic products. 3,046,184, 7–24–62, Cl. 162—86.
Braun, Reinhold: *See*—
Steinbuch, Karl, Braun, and Merz. 3,053,936.
Braun, Robert: *See*—
Schaller, Johannes, and Braun. 3,067,752.
Braun, Teodor H. and R. T. Gerow, to The Superior Oil Co. Optical apparatus for curve comparison. 3,055,261, 9–25–62, Cl. 88—14.

Braun, W., Co.: *See*—
Lerner, Nathan B. 3,067,916.
Brüun, Wilhelm, to Inventa, A.G. fur Forschung & Patentverwertung. Process and apparatus for the production of urea. 3,024,280, 3–6–62, Cl. 260—555.
Braun, Wilhelm, and W. Zehnder, to Inventa, A.G. fur Forschung und Patentverwertung. Process for extraction of monomeric caprolactam from its polymer. 3,047,565, 7–31–62, Cl. 260—239.3.
Braün, Wolfgang, to Siemens-Schuckertwerke Aktiengesellschaft. Nuclear reactor plant for power generation. 3,036,965, 5–29–62, Cl. 204—193.2.
Braunagel, Magnus V., to General Motors Corp. Multiple thermocouple circuit. 3,053,091, 9–11–62, Cl. 73—341.
Braunagel, Magnus V., and J. A. Dilley, to General Motors Corp. Engine control system. 3,049,881, 8–21–62, Cl. 60—39.28.
Braunberger, Ray A. Kingpin lock for fifth wheels. 3,022,-091, 2–20–62, Cl. 280—434.
Braunberger, Ray A. Locks for sliding fifth wheel trunnions. 3,030,125, 4–17–62, Cl. 280—407.
Brauneck, Charles F.: *See*—
Kobryner, Herman H., and Brauneck. 3,020,373.
Brauneis, Frederick J.: *See*—
Knowland, Thomas M., and Brauneis. 3,032,811.
Brauner, Edward J., to General Electric Co. Q multiplier circuit. 3,067,6–12–62, Cl. 331—117.
Brauner, Edward J., to General Electric Co. Squelch circuit. 3,056,086. 9–25–62 Cl. 325—319.
Brauner, Pincus. Lift and dowel for ladies' shoes. 3,041,744, 7–5–62, Cl. 36—34.
Braun-Hobar Corp.: *See*—
Goll, Ernest R. 3,028,036.
Braunitzer, Andrew: *See*—
Tvorik, Stephen W., and Braunitzer. 3,046,620.
Tvorik, Stephen W., and Braunitzer. 3,047,112.
Braunschweig, Georges: *See*—
Marti, Frédéric, Braunschweig, and Schaad. 3,026,707.
Marti, Frédéric, Braunschweig, and Schaad. 3,026,708.
Braunstein, Aron. Egg carton. 3,017,066, 1–16–62, Cl. 229—28.
Braunwarth, John B., to The Pure Oil Co. Process for the preparation of phenols. 3,033,904, 5–8–62, Cl. 260—621.
Braunwarth, John B., to The Pure Oil Co. Process for the production of para-alkyl-phenol and para-alkyl-benzoic acid. 3,046,305. 7–24–62, Cl. 260—515.
Braunwarth, John B., and G. W. Crosby, to The Pure Oil Co. Method of preparing omega-mercapto-substituted acyclic organic compounds. 3,061,619, 10–30–62, Cl. 260—399.
Brautigam, Frank C., to The Sharpless Corp. Heat treatment of stainless steel castings. 3,065,119, 11–20–62, Cl. 148—135.
Brautigam, Rudolf G., to The American Agricultural Chemical Co. Preparation of carbon-free phosphorus. 3,033,-653, 5–8–62, Cl. 23—223.
Brautigam, Rudolf G., and B. Buchner, to The American Agricultural Chemical Co. Preparation of thiophosphoryl chloride. 3,059,992, 10–23–62, Cl. 23—14.
Bravenec, Frank S.: *See*—
Huddleston, Richard H., Jr., Bravenec, and Eszlinger. 3,065,407.
Bravo, Justo B., and P. H. Delano, to Foote Mineral Co. Manufacture of perchlorates. 3,020,124, 2–6–62, Cl. 23—85.
Bray, David A.: *See*—
Humphrey, Marshall F., and Bray. 3,036,125.
Bray, Donald L.: *See*—
Bowler, Raymond M., and Bray. 3,016,551.
Bray, Donald L., and D. B. Johnson, to United Shoe Machinery Corp. Combined wiper and knife for operating on shoes. 3,061,852, 11–6–62, Cl. 12—7.1.
Bray, Frederick H., and D. G. Bryan, to International Standard Electric Corp. Electrical calculating circuits. 3,039,-683, 6–19–62, Cl. 235—92.
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Bray, Murel B. Combination hair clipper. 3,063,146, 11–13–62, Cl. 30—133.
Bray Oil Co.: *See*—
Bray, Ulric B. 3,033,898.
Voorhees, Vanderveer. 3,067,018.
Bray, Ray C., and V. J. Remillard. Signalling fish rod holder. 3,041,769, 7–3–62, Cl. 43—17.
Bray, Ulric B., to Bray Oil Co. Sulfonation of oils. 3,033,-898, 5–8–62, Cl. 260—504.
Brayer, Henry E.: *See*—
Eagle, John H., and Brayer. 3,053,711.
Brayhead(Ascot) Ltd.: *See*—
Coleman, Anthony S., and Holland. 3,056,075.
Brayman, Jacob: *See*—
Gerard, George, and Brayman. 3,031,993.
Gerard, George, and Brayman. 3,044,113.
Gerard, George, and Brayman. 3,049,756.
Gerard, George, and Brayman. 3,063,594.
Brayton, Maurice E.: *See*—
Mayer, Joseph S. 3,038,256.
Brazeal, George J.: *See*—
Bachleder, Louis J., and Brazeal. 3,044,608.
Brazier, Horace J., to S. Smith & Sons (England) Ltd. Viscosity sensitive apparatus. 3,050,986, 8–28–62, Cl. 73—60.
Breadner, John D.: *See*—
Sanders, Horace F., and Breadner. 3,031,936.
Breakell, James H., and J. E. Phillips, to American Viscose Corp. Drying apparatus. 3,045,358, 7–24–62, Cl. 34—1.
Breakwell, John V.: *See*—
Roberson, Robert E., and Breakwell. 3,031,154.
Brealey, William H.: *See*—
Parkin, Leslie, and Brealey. 3,016,784.
Bream, John B.: *See*—
Bennett, John B., Bream, Hadley, and Wood. 3,056,845.
Hadley, David J., and Bream. 3,051,630.
Brearley Co., The: *See*—
King, Richard C. 3,044,565.
Mattson, Harry L. 3,044,564.
Provi, Mike A. 3,022,845.
Breathitt, Harvie W., Jr.: *See*—
Evans, Robert D., and Breathitt. 3,032,194.
Brecht, George, to Personal Products Corp. Applicator. 3,015,332, 1–2–62, Cl. 128—263.
Brecht, George, to Personal Products Corp. Absorbent product. 3,063,453, 11–13–62, Cl. 128—285.
Brechtel, Robert E. Automatic car wash. 3,038,481, 6–12–62, Cl. 134—57.
Breck, Donald W. Crystalline zeolite S. 3,054,657, 9–18–62, Cl. 23—113.
Breck, John H., Inc.: *See*—
Hublard, Joseph J., and Bumpus. 3,054,133.
Brecknell, Dolman & Rogers Ltd.: *See*—
Dolman, Henry J. 3,019,539.
Brecko, Richard E., and D. L. Bryan, to Pacific Car and Foundry Co. Steering mechanism for tandem axle assembly. 3,055,675. 9–25–62. Cl. 280—91.
Breda, Thoralf K.: *See*—
Whippen, Warren G., McCormack, and Breda. 3,026,085.
Brede, Dwight W.: *See*—
Tronslin, Cyril B., Sweeney, Brede, and Dorsett. 3,023,-280.
Brede, Dwight W., to Ampex Corp. Magnetic tape apparatus and cycling control therefor. 3,032,285, 5–1–62, Cl. 242—55.12.
Brede, Dwight W., to Ampex Corp. Recording and/or reproducing apparatus and head carriage therefor. 3,045,072, 7–17–62, Cl. 179—100.2.
Bredemeier, Herbert C.: *See*—
Ten Bosch, Maurits, and Bredemeier. 3,044,304.
Bredesen, Philip N., and G. G. Outterson. Safety combustion control system. 3,049,169, 8–14–62, Cl. 158—28.
Bredtschneider, Kurt B.: *See*—
Magos, John P., Bredtschneider, Cotterman, Black, and Rodda. 3,053,554.
McInerney, John A., and Bredtschneider. 3,035,598.
Bredtschneider, Kurt B., to Crane Co. Valve seat and disc arrangement. 3,042,359, 7–3–62, Cl. 251—172.
Bredtschneider, Kurt B., to Crane Co. Method of testing and applying valve seat rings. 3,049,794, 8–21–62, Cl. 29—157.1.
Bredtschneider, Kurt B., to Crane Co. Ball valve for high pressure service. 3,039,484, 6–19–62, Cl. 137—454.2.
Bredtschneider, Kurt B., to Crane Co. Flanged closure for pressure vessels. 3,052,473. 9–4–62, Cl. 277—74.
Bredtschneider, Kurt B., to Crane Co. Fluid sealing indicator. 3,067,763, 12–11–62, Cl. 137—246.11.
Breed, John W., to Kent-Moore Organization, Inc. Engine mounting stand. 3,017,176, 1–16–62, Cl. 269—185.
Breed, Rolland N., to Bell Telephone Laboratories, Inc. Telephone system. 3,027,424, 3–27–62. Cl. 179—6.3.
Breen, Alvin L., to E. I. du Pont de Nemours and Co. Method and apparatus for producing bulky continuous filament yarn. 3,017,737, 1–23–62, Cl. 57—34.
Breen, Alvin L., to E. I. du Pont de Nemours and Co. Crimped textile products. 3,038,236, 6–12–62, Cl. 28—82.
Breen, Alvin L., to E. I. du Pont de Nemours and Co. Process for making bulky yarn. 3,043,088, 7–10–62, Cl. 57—157.
Breen, Alvin L., and W. E. Jordan, to E. I. du Pont de Nemours and Co. Two component convoluted filaments. 3,017,686, 1–23–62, Cl. 28—82.
Breen, Alvin L., and M. V. Sussman, to E. I. du Pont de Nemours and Co. Process for making alternating twist slub yarn using a fluid vortex. 3,043,087, 7–10–62, Cl. 57—157.
Breen, Arne. Magnetic measuring instrument. 3,024,412, 3–6–62, Cl. 324—48.
Breen, Charles: *See*—
Benson, Milton L., and Breen. 3,050,588.
Breen, Charles, and H. J. Michael, to Bell Telephone Laboratories, Inc. Morning call system. 3,046,339, 7–24–62, Cl. 179—2.
Breen, George B., and J. E. Cahill, to Minnesota Mining and Mfg. Co. Apparatus for collecting sap. 3,046,698, 7–31–62, Cl. 47—52.
Breen, Stanley, to Forte-Fairbairn Inc. Measurement of capacitivity of materials. 3,025,465, 3–13–62, Cl. 324—61.
Breen, Stanley, to Forté-Fairbairn Inc. Measurement of capacitivity of materials. 3,028,548, 4–3–62, Cl. 324—61.
Breen, Stanley, and F. M. Baldwin, to Amcel Propulsion, Inc. Error correcting system. 3,024,708, 3–13–62, Cl. 90—21.
Breen, Stanley, and W. R. Peck, to Celanese Corp. Speed slawing method and apparatus. 3,064,173, 11–13–62, Cl. 318—312.

Breen, Thomas M. Toy vehicle with adjustable seat and leg protector. 3,048,417, 8–7–62, Cl. 280—1.

Breer, Karl: *See*—
Hoppe, Peter, Paffrath, Weinbrenner, and Breer. 3,052,-927.
Weinbrenner, Erwin, Hoppe, and Breer. 3,031,271.
Weinbrenner, Erwin, Hoppe, and Breer. 3,063,813.

Breer, Karl, and E. Weinbrenner, ½ to Bayer Aktiengesellschaft, Farbenfabriken and ½ to Mobay Chemical Co. Apparatus for the manufacture of polyurethane plastics. 3,056,661, 10–2–62, Cl. 23—285.

Brees, Dale W., to Boeing Airplane Co. Detonative combustion method and means for ram-jet engine. 3,040,516, 6–26–62, Cl. 60—35.3.

Breese Industries, Inc.: *See*—
Van Tubergen, Richard F., and Mueller. 3,063,278.

Breese, James L., to Controls Co. of America. Heater for contractor's use. 3,029,803, 4–17–62, Cl. 126—110.

Breese, James L., deceased (by R. F. Van Tubergen and J. L. Breese, III, executors), and M. D. Huston, to Controls Co. of America. Burner units and methods. 3,017,925, 1–23–62, Cl. 158—91.

Breese, James L., III: *See*—
Breese, James L., and Huston. 3,017,925.

Breeze Corp., Inc.: *See*—
Lardin, Arthur. 3,024,070.
Lardin, Arthur R. 3,057,653.

Breeze, James. Window lock means. 3,050,323, 8–21–62, Cl. 292—155

Bregi, Benjamin F., to National Broach & Machine Co. Gear checking apparatus. 3,034,219, 5–15–62, Cl. 33—179.5.

Bregi, Benjamin F., to National Broach & Machine Co. Apparatus for honing gears. 3,054,226, 9–18–62, Cl. 51—52.

Bregi, Benjamin F., and T. S. Gates, to National Broach & Machine Co. Gear rolling apparatus. 3,048,066, 8–7–62, Cl. 80—16.

Bregi, Benjamin F., and A. B. Bassoff, to National Broach & Machine Co. Gear finishing machine. 3,059,544, 10–23–62, Cl. 90—1.6.

Breglia, Arthur F. Reversible support means for shelving and the like. 3,029,056, 4–10–62, Cl. 248—243.

Bregman, Irvin. Slide projector. 3,045,541, 7–24–62, Cl. 88—24.

Bregman, Irvin. Combination photograph-disc record unit and automatic exhibiting and playing means therefor. 3,057,255, 10–9–62, Cl. 88—28.

Bregman, Irvin. Picture and word message holder. 3,063,-338, 11–13–62, Cl. 88—28.

Bregman, Jacob I.: *See*—
Boies, David B., Bregman, and Newman. 3,067,024.

Bregman, Jacob I., to Nalco Chemical Co. Corrosion inhibiting composition and method. 3,024,201, 3–6–62, Cl. 252—387.

Breher, Rudolf. to Friedrich Stubbe. Gate valve having an upsettable sealing member of rubber elastic material. 3,043,555, 7–10–62, Cl. 251—187.

Breher, Rudolf, and F. B. Bielfeldt, to F. Stubbe. Injection molding machine. 3,020,591, 2–13–62, Cl. 18—30.

Brehm, Charles M., to The Vulcan Tool Co. Tube cutter comprising a die having both reciprocating and oscillating motion. 3,025,739, 3–20–62, Cl. 83—198.

Brehm, Richard J.: *See*—
Malcolm, Robert H., and Brehm. 3,032,022.

Brehm, Richard J., and R. S. Johnson, to International Harvester Co. Internal combustion engine lubricating system and temperature regulating means for the pistons thereof. 3,065,743. 11–27–62, Cl. 123—41.08.

Brehm, Richard K., to Jarrell-Ash Co. Automatic lock for the rotatable members of instruments for recording changes in signal intensities. 3,016,787, 1–16–62, Cl. 88—14.

Brehm, Warren J., and A. S. Milian, to E. I. du Pont de Nemours and Co. Copolymers of hexafluoropropylene and fluoranil. 3,053,823, 9–11–62, Cl. 260—92.1.

Breidenthal, Robert E.: *See*—
Moody, Richard E. 3,030,604.

Breidert, G. C., Co., The: *See*—
Breidert, George M. 3,063,358.

Breidert, George M., to The G. C. Breidert Co. Roof-type ventilation device. 3,063,358, 11–13–62, Cl. 98—43.

Breier, Marcus I. Materials handling method. 3,036,537, 5–29–62, Cl. 112—262.

Breig, Kurt: *See*—
Bienert, Berthold, Breig, Groll, and Gutjahr. 3,047,582.

Breig, Otto, to Fabriques de Produits Chimiques de Thann et de Mulhouse. Apparatus for cooling gaseous solid suspensions. 3,022,046, 2–20–62, Cl. 257—87.

Breil, Heniz: *See*—
Ziegler, Karl, Breil, Holzkamp, and Martin. 3,070,549.

Breiner, Carl M. Bead ring attachment for tire molds. 3,058,157, 10–16–62, Cl. 18—38.

Breiner, Richard C., to Johns-Mansville Corp. Corrugated panel and method. 3,070,480, 12–25–62, Cl. 156—207.

Breining, Elmer R., and J. R. Whitacre, to Union Carbide Corp. Use of dioxane as a solvent for vapor plating molybdenum, tungsten and chromium from their hexacarbonyls. 3,023,-491, 3–6–62, Cl. 29—194.

Breining, Elmer R., and J. R. Whitacre, to Union Carbide Corp. Method of gas plating. 3,049,799, 8–21–62, Cl. 29—420.

Breisch, John H. Speaker assembly. 3,056,857, 10–2–62, Cl. 179—1.

Breitbach, Louis F. Baseball practice fielding bat. 3,048,-399, 8–7–62, Cl. 273—72.

Breitenbach, Johann W., and H. Edelhauser, to W. R. Grace & Co. Vinyl pyrrolidine-styrene block polymers. 3,016,370, 1–9–62, Cl. 260—88.1.

Breitenbach, Johann W., and H. Edelhauser, to W. R. Grace & Co. Styrene-acrylic acid block polymers. 3,040,011, 6–19–62, Cl. 260—88.1.

Breitenbach, Karl-Heinz: *See*—
Steicheie, Joseph, Wendel, and Breitenbach. 3,025,638.

Breitenstein, Charles T., to R. T. Moloney, American National Bank and Trust Co. of Chicago, executor of R. T. Moloney, deceased. Selectively changeable score indicating and display means. 3,034,790, 5–15–62, Cl. 273—118.

Breitenstein, Charles T., to R. T. Moloney, deceased (American National Bank and Trust Co. of Chicago, executor). Fuel transfer adapter with dual valve actuator. 3,035,617, 5–22–62, Cl. 141—349.

Breitenstein, Charles T., to The Seeburg Corp. Manifold dispensing valve. 3,034,685, 5–15–62, Cl. 222—132.

Breitenstein, Victor W., to F. N. Bard. Joint having temperature responsive sealing means. 3,056,615, 10–2–62, Cl. 285—187.

Breithaupt, Donald E. Fishing reel. 3,067,965, 12–11–62, Cl. 242—84.4.

Breitling, Wilhelm, to Olympia Werke A.G. Induction motor. 3,054,010, 9–11–62, Cl. 310—254.

Breitling, Wilhelm, to Olympia Werke A.G. Magnetic core storage register. 3,054,092, 9–11–62, Cl. 340—174.

Breitling, Wilhelm, and H. Heuer, to Olympia Werke A.G. Apparatus for transmission and reception of impulses representing numerical values and computing operations. 3,059,-845. 10–23–62, Cl. 235—60.4.

Breitmayer, Carl A. Apparatus for latching and opening container covers. 3,018,917, 1–30–62, Cl. 220—36.

Breitner, Stefan: *See*—
Meister, Werner, Breitner, Wirth, and Kreiskott. 3,057,-778.

Brelsford, John E., to Sperry Rand Corp. Conveyor. 3,050,-176, 8–21–62, Cl. 198—64.

Bremer, Fred C., 30% to J. M. Shackleton, and 18% to L. M. Seiler. Envelope construction. 3,043,506, 7–10–62, Cl. 235—61.12.

Bremer, Hans: *See*—
Jacobi, Ernst, and Bremer. 3,042,580.

Bremer, Robert D., to General Motors Corp. Electric plate heater. 3,045,101, 7–17–62, Cl. 219—37.

Bremer, Robert D., and J. W. Vannorsdall, to General Motors Corp. Electric hot plate. 3,040,161, 6–19–62, Cl. 219—37.

Bremer, Robert D., and A. J. Sacksteder, to General Motors Corp. Domestic appliance. 3,068,340, 12–11–62, Cl. 219—37.

Bremer, Robert D., and G. C. Pearce, to General Motors Corp. Electric hot plate. 3,069,526, 12–18–62, Cl. 219—37.

Bremmer, John F., H. J. Wright, and P. F. Westfall, to Cook Paint & Varnish Co. Coated container. 3,070,256, 12–25–62, Cl. 220—64.

Bremmer, Norman C. Magnetic recording means. 3,049,583, 8–14–62, Cl. 179—100.2.

Brems, John H. Reciprocating drive mechanism. 3,025,709, 3–20–62, Cl. 74—91.

Brems, John H. Intermittent drive mechanism. 3,029,652, 4–17–62, Cl. 74—89.

Brenchley, Ltd., to Bergische Eisen- und Tempergiesserei Karl Bremshey, Firma. Protecting plate for cement ground covers. 3,040,637, 6–26–62, Cl. 94—8.

Brendel, Armin G. Apparatus for maintaining constant tension in guys. 3,049,194, 8–14–62, Cl. 189—31.5.

Brendel, Oskar, K. Grantz, K.-E. Hofstadt, and W. Franz. Method and apparatus for mass-producing small balls of plastic materials. 3,049,760, 8–21–62, Cl. 18—55.

Brendenmuehl, Roger C.: *See*—
Kripke, Joseph B., Rowe, and Brendemuehl. 3,055,993.

Brendle, John A., and W. H. Beland, to Swift & Co. Casing cutting apparatus. 3,055,045, 9–25–62, Cl. 17—1.

Brendling, William L.: *See*—
Fougere, Guy L., and Brandling. 3,030,590.

Breneman-Hartshorn, Inc.: *See*—
Anderson, James A., and Bushnell. 3,018,824.

Breneman, James C., to Innoventions, Inc. Ground cleaning apparatus. 3,028,616, 4–10–62, Cl. 15—87.

Breneman, Warren R.: *See*—
Noland, Wayne B., and Breneman. 3,070,116.

Brenk, Robert C.: *See*—
Tomka, Joseph W., and Brenk. 3,016,005.

Brenkman, Jacobus A.: *See*—
De Jong, Hugo M., Aalbers, and Brenkman. 3,054,820.
De Jong, Hugo M., Brenkman, and Aalbers. 3,038,862.

Brennan, Elmer W., and J. G. Hall, to The Pure Oil Co. Multi-graded lubricant for 2-cycle engines. 3,015,320, 1–2–62, Cl. 123—1.

Brennan, Elmer W., and R. G. Moyer, to The Pure Oil Co. Dynamic demulsibility method and apparatus. 3,020,747, 2–13–62, Cl. 73—53.

Brennan, Helen E.: *See*—
Brennan, Joseph B. 3,046,649.
Brennan, Joseph B. 3,052,001.

Brennan, James A., to Socony Mobil Oil Co., Inc. Removal of nitrogen oxides from combustion gases. 3,015,369, 1–2–62, Cl. 183—114.2.

Brennan, James E.: *See*—
Lynch, John E., Brennan, and Brasington. 3,018,698.

Brennan, John B., and J. B. Force, to General Motors Corp. Transmission shift pattern generator. 3,019,666, 2–6–62, Cl. 74—472.

Brennan, John B., and J. B. Force, to General Motors Corp. Transmission. 3,068,715, 12–18–62, Cl. 74—472.

Brennan, Joseph B., deceased; H. E. Brennan, executrix. Method of producing composite metal articles. 3,046,649, 7–31–62, Cl. 29—474.3.

Brennan, Joseph B., deceased; H. E. Brennan, executrix. Centrifugal casting apparatus. 3,052,001, 9–4–62, Cl. 22—65.

Brennan, Joseph H., to Union Carbide Corp. Ferrochromium alloys. 3,024,104, 3–6–62, Cl. 75—126.

Brennan, Joseph H., and S. W. Scott, to Union Carbide Corp. Process for producing molybdenum disilicide. 3,056,658, 10–2–62, Cl. 23—204.

Brennan Laboratories, Inc.: *See*—
Keohane, John S., Jr. 3,062,451.

Brennan, Maurice J., to Vickers-Armstrongs (Aircraft) Ltd. Aeroplane having wings adjustable in sweep. 3,023,984, 3–6–62, Cl. 244—46.

Brennan, Thomas F., to American Can Co. Method of packaging food. 3,051,580, 8–28–62, Cl. 99—171.

Brennan, William A.: *See*—
Hannon, Stephen, and Brennan. 3,041,561.

Brennan, William R., to Socony Mobil Oil Co., Inc. Pressure control. 3,049,380, 8–14–62, Cl. 302—53.

Brenneke, Arthur M., to Perfect Circle Corp. Piston ring. 3,024,029, 3–6–62, Cl. 277—139.

Brenneke, Arthur M., to Perfect Circle Corp. Piston ring. 3,066,943, 12–4–62, Cl. 277—139.

Brennemann, Andrew E., to International Business Machines Corp. Cryogenic commutator. 3,023,325, 2–27–62, Cl. 307—88.5.

Brennemann, Andrew E., to International Business Machines Corp. Logical circuit element. 3,037,196, 5–29–62, Cl. 340—173.2.

Brennemann, Andrew E., to International Business Machines Corp. Superconductive circuit element exhibiting multistate characteristics. 3,047,743, 7–31–62, Cl. 307—88.5.

Brennemann, Andrew E., R. B. De Lano, Jr., and D. R. Young, to International Business Machines Corp. Logical and memory elements and circuits. 3,042,904, 7–3–62, Cl. 340—173.2.

Brennemann, Andrew E., H. K. Wild, and W. Wolensky, to International Business Machines Corp. Data transferring systems. 3,054,091, 9–11–62, Cl. 340—173.2.

Brenner, Abner: *See*—
Couch, Dwight E., Shapiro, Brenner, and Connor. 3,046,205.

Brenner, Abner, and J. M. Sherfey, to United States of America, Army. Process for electrowinning titanium from lower valent titanium alkali chlorides. 3,019,174, 1–30–62, Cl. 204—64.

Brenner, Al. Automatic tube cleaning device. 3,061,721, 10–30–62, Cl. 250—43.

Brenner, Bert, to Sigmund Cohn Corp. Spring contact element for semiconductor diodes. 3,036,251, 5–22–62, Cl. 317—234.

Brenner, John W., and J. P. Engle, to The Dow Chemical Co. Foam cleaning of surfaces. 3,037,887, 6–5–62, Cl. 134—22.

Brenner, Millard M., and W. H. Chudleigh, Jr., to Philco Corp. Aerial photographing system. 3,060,824, 10–30–62, Cl. 95—12.5.

Brenner, Morris. Torque calibrator. 3,027,748, 4–3–62, Cl. 73—1.

Brenner, Nathaniel, to The Perkin-Elmer Corp. Vapor fractometers. 3,056,277, 10–2–62, Cl. 73—23.

Brenner, Paul, F. Kraus, and J. Schulte, to W. Schmidding. Method of producing a corrosion resistant internal surface on a container made of light metal. 3,061,447, 10–30–62, Cl. 99—181.

Brenner, Theodore J.: *See*—
Horrocks, Raymond G., Miller, and Brenner. 3,021,382.

Brenner, William, and S. Koslow. Magnetic coding means. 3,040,323, 6–19–62, Cl. 346—74.

Brent, John, & Co. Proprietary Ltd.: *See*—
Ford, Clarence A. 3,040,370.

Brentford Transformers Ltd.: *See*—
Matthews, Dennis J. 3,058,366.

Brenza, James G.: *See*—
Rhodes, William H., Brenza, Winger, and Jackson. 3,049,295.

Brereton, Gilbert. Apparatus for lubricating the journal of a railway vehicle. 3,037,823, 6–5–62, Cl. 308—88.

Breskend, Sam D., to United States of America, Army. Passive pulse width discriminator utilizing delay line reflections. 3,046,483, 7–24–62, Cl. 328—56.

Bresleman, Jakow: *See*—
Strauchen, Alfred, and Bresleman. 3,033,669.

Breslove, Joseph, Jr. Separator. 3,064,411, 11–20–62, Cl. 55—457.

Breslow, David S., to Hercules Powder Co. Cross-linking vinyl ether polymers with a sulfonazide. 3,058,957, 10–16–62, Cl. 260—79.3.

Breslow, David S., and H. M. Spurlin, to Hercules Powder Co. Cross-linking alpha-alkyl polymers with polysulfonazides and resulting product. 3,058,944, 10–16–62, Cl. 260—41.

Breslow, Leon. Footwear. 3,015,896, 1–9–62, Cl. 36—58.6.

Bressler, Wilbur L., and W. E. Presley, to The Dow Chemical Co. Epoxy curing agent. 3,029,286, 4–10–62, Cl. 260—584.

Bressler, Wilbur L., and W. E. Presley, to The Dow Chemical Co. Rapid drying epoxy-ester metal litho finishes. 3,043,-788, 7–10–62, Cl. 260—18.

Bretall, John W.: *See*—
Gustafson, Edwin A. 3,023,561.

Bretford Mfg., Inc.: *See*—
Petrick, Edward J. 3,063,495.

Bretherick, Leslie: *See*—
Wragg, William R., and Bretherick. 3,020,288.

Breting, Ulysses A.: *See*—
Christenson, Howard W., Livezey, and Breting. 3,016,-769.

Breting, Ulysses A., to General Motors Corp. Transmission. 3,039,327, 6–19–62, Cl. 74—720.5.

Breting, Ulysses A., and R. M. Tuck, to General Motors Corp. Transmission. 3,033,333, 5–8–62, Cl. 192—4.

Bretol, Remus N., to Minneapolis-Honeywell Regulator Co. Automatic control apparatus. 3,057,584, 10–9–62, Cl. 244—77.

Breton, Alex T. Pharmaceutical hair device having hollow teeth. 3,053,264, 9–11–62, Cl. 132—116.

Bretscher, Max, to Albiswerk Zurich A.G. Pulse radar system with zero distance calibration. 3,048,838, 8–7–62, Cl. 343—17.7.

Bretscher, Max, F. Farner, H. Isch, and H. Klauser, to Albiswerk Zurich A.G. Method and apparatus for determining misdistance when shooting at moving aerial targets. 3,068,468, 12–11–62, Cl. 343—7.3.

Bretscher, Otto, to Gesellschaft der Ludw. von Roll'schen Eisenwerke Aktiengesellschaft. Device for grinding work surfaces curved in the longitudinal direction. 3,046,702, 7–31–62, Cl. 51—92.

Bretschneider, Otto, L. Bender, and G. Jaekel, to Knapsack-Griesheim Aktiengesellschaft. Process for purifying metal vapors. 3,017,263, 1–16–62, Cl. 75—67.

Brett, Morton, and A. Schiff, to International Business Machines Corp. Overflow indicator. 3,016,193, 1–9–62, Cl. 235—153.

Brett, Oliver C., Jr., to United Shoe Machinery Corp. Skiving machines. 3,031,873, 5–1–62, Cl. 69—16.

Brettell, George A.: *See*—
Sprague, John D., Jr., Pockman, and Brettell. 3,027,964.

Bretthauer, Hermann, and J. Madge, to Franke & Heidecke, Fabrik Photographischer Präzisions-Apparate. Photographic camera. 3,046,863, 7–31–62, Cl. 95—64.

Brettrager, Henry J. Pallet dispensing apparatus. 3,069,-050, 12–18–62, Cl. 221—224.

Bretz, Frank E., Jr., to Pentron Electronics Corp. Hand brake mechanism. 3,040,597, 6–26–62, Cl. 74—505.

Breuer, Karl. Curtain rod mounting devices. 3,030,060, 4–17–62, Cl. 248—265.

Breuers, Theo P. C., to Chemische Fabriek L. Van der Grinten, N.V. Device for separating two sheets of laminar material. 3,044,769, 7–17–62, Cl. 271—18.

Breuers, Theo P. C., to Chemische Fabriek L. van der Grinten, N.V. Sheet feeding device. 3,044,770, 7–17–62, Cl. 271—36.

Breuing, Wilhelm: *See*—
Spolders, Rudolf, Breuing, and Pieper. 3,060,015.

Breunich, Theodore R., to Controlex Corp. of America. Protector for relatively movable parts. 3,019,663, 2–6–62, Cl. 74—18.2.

Breuning, Robert. Boring head. 3,067,636, 12–11–62, Cl. 77—58.

Breuninger, Wolfgang: *See*—
Ninger, Henrik G., and Breuninger. 3,050,188.

Brevets Aero-Mecaniques S.A.: *See*—
Guerne, William. 3,033,115.
Hosli, Hansjakob. 3,026,774.
Kaspaul, Alfred. 3,019,732.
Kaspaul, Alfred. 3,043,222.
Klaue, Hermann. 3,053,333.
Kuijvenhoven, Arend W., and Vickers. 3,051,056.
Martinoli, Edoardo, and Meier. 3,059,541.

Brevick, Arnold A., to Cherry Electrical Products Corp. Snap switch. 3,050,599, 8–21–62, Cl. 200—67.

Brevik, Elmer L. Equipment and process for agitated tank cleaning. 3,033,712, 5–8–62, Cl. 134—34.

Brevik, Elmer L., to Purex Corp., Ltd. Compositions and process for removal of radioactive contaminants. 3,033,-795, 5–8–62, Cl. 252—142.

Brevitex Etablissement pour l'Exploration de Brevets Textiles: *See*—
Piazzolla, Giovanni, and Villa. 3,064,689.

Brew, Richard D., and Co., Inc.: *See*—
Hill, Charles A. S. 3,057,936.

Brewer, Alan W., and J. R. Milford, to Mast Development Co. Method and apparatus for detecting and measuring trace constituents in air and other gases. 3,038,848, 6–12–62, Cl. 204—195.

Brewer, Arthur G.: *See*—
Morrow, Andrew S., Brewer, and Torbin. 3,052,629.

Brewer, Claire N., to International Typographical Union of North America. Electrically operated tape perforating machine. 3,021,998, 2–20–62, Cl. 234—11.

Brewer, Clifford E. Chimney cowls and ventilating devices. 3,017,818, 1–23–62, Cl. 98—82.

Brewer, Clifford E. Chimney cowls and ventilating devices. 3,018,714, 1–30–62, Cl. 98—66.
Brewer, Clifford E. Chimney cowls and ventilating devices. 3,046,867, 7–31–62, Cl. 98—82.
Brewer, George R.: *See*—
Birdsall, Charles K., and Brewer. 3,068,377.
Brewer, John F., to Copolymer Rubber & Chemical Corp. Method of adjusting the pH value of latex. 3,032,524, 5–1–62, Cl. 260—29.7.
Brewer, Max E., and C. D. Hofmann; said Hofmann assor. to said Brewer. Brick and block jig. 3,030,738, 4–24–62, Cl. 50—538.
Brewer, Nathaniel, and L. Ollivier, to Fischer & Porter Co. Pneumatic systems for gauging linear dimensions. 3,056,-280. 10–2–62, Cl. 73—37.5.
Brewer, Norman C., Jr.: *See*—
Clark, Aubrey L. 3,024,560.
Brewer, Robert F., and J. A. Hosford, to Western Electric Co., Inc. Apparatus for feeding parts to continuously moving chucks. 3,061,144, 10–30–62, Cl. 221—13.
Brewer, Sherman T., to Bell Telephone Laboratories, Inc. Remotely controlled selective switching system. 3,060,390, 10–23–62, Cl. 333—3.
Brewer, Silas H., T. I. Harris, and I. C. Sandback, to Bell & Howell Co. Wide angle lens system. 3,029,699, 4–17–62, Cl. 88—57.
Brewer, Thomas L., J. L. Hall, and P. M. Chewey, to Curtiss-Wright Corp. Thrust reversers. 3,015,936, 1–9–62, Cl. 60—35.54.
Brewer-Titchener Corp., The: *See*—
Eves, John D., and Engelbrecht. 3,041,092.
Eves, John D., and Terpening. 3,024,065.
Brewing Patents Ltd.: *See*—
Hall, Ronald D., and Harris. 3,053,664.
Brewster, Arthur E., to International Standard Electric Corp. Magnetic information storage arrangements. 3,040,304, 6–19–62, Cl. 340—174.
Brewster, Arthur E., to International Standard Electric Corp. Magnetic information storage devices. 3,045,216, 7–17–62, Cl. 340—174.
Brewster, Arthur E., to International Standard Electric Corp. Coders and decoders for pulse code modulation systems. 3,069,641, 12–18–62, Cl. 336—155.
Brewster, Eddie L.: *See*—
Brewster, Lewis A. 3,039,257.
Brewster, Forrest O. Back pack convertible to hand-bag. 3,019,952, 2–6–62, Cl. 224—9.
Brewster, Franklin C., to Motorola, Inc. Insert bushing. 3,064,494, 11–20–62, Cl. 74—504.
Brewster, Harold M.: *See*—
Nunn, Roland C., and Brewster. 3,065,178.
Brewster, Jerry, Sr.: *See*—
Mir, William G., and Brewster. 3,018,101.
Brewster, Lewis A., deceased; E. L. Brewster, executrix, 49% to M. Cash, deceased; E. Cash, administratrix. Cotton salvaging apparatus. 3,039,257, 6–19–62, Cl. 56—28.
Brey, Carl F. Press. 3,027,829, 4–3–62, Cl. 100—271.
Brey, Frank W.: *See*—
Greenleaf, Francis D., MacIsaac, and Brey. 3,059,310.
Brey, Wilhelm, to The Firestone Tire & Rubber Co. Preparation of coated fabric material. 3,019,016, 1–30–62, Cl. 270—93.
Brey, Wilhelm, to The Firestone Tire & Rubber Co. Tire building drum. 3,038,526, 6–12–62, Cl. 156—420.
Brey, Wilhelm, to The Firestone Tire & Rubber Co. Preparation and treatment of the edges of bias-cut rubberized fabric. 3,038,827, 6–12–62, Cl. 154—46.
Breyer, Norman N. Producing high strengths in martensitic steels. 3,053,703, 9–11–62, Cl. 148—12.
Breza, Cyril J., H. W. Hague, R. W. v. d. Luft, and J. P. Swed, to E. I. du Pont de Nemours and Co. Explosive method for severing non-ductile pipes. 3,062,142, 11–6–62, Cl. 102—23.
Brezinski, Jerome P.: *See*—
Han, Shu T., and Brezinski. 3,018,825.
Justus, Edgar J., and Brezinski. 3,029,780.
Brezinski, Jerome P., to Beloit Iron Works. Centrifugal classifier and stock cleaner. 3,061,098, 10–30–62, Cl. 209—211.
Brezinski, Julius J.: *See*—
Montagna, Amelio E., Brezinski, and Kubler. 3,032,558.
Brian, August A.: *See*—
Richterkessing, Frank H., Brian, and Ingold. 3,068,588.
Brian, Malcolm J. Backwater valve. 3,070,121, 12–25–62, Cl. 137—523.
Brice, Herbert J., Jr., A. D. Bonnington, and O. McKenzie, Jr., to Ashland Oil & Refining Co. Railroad journal box coolant and lubricant. 3,061,543, 10–30–62, Cl. 252—12.
Brichard, Edgard, and J. Marchand, to Union des Verreries Mecaniques Belges, Societe Anonyme. Method of and apparatus for cutting a continuous ribbon of glass into sections. 3,027,646, 4–3–62, Cl. 33—32.
Briche, Jules E.: *See*—
Bernard, Lucien A. 3,018,809.
Brick Robert M.: *See*—
Maier, Curtis E., and Brick. 3,029,155.
Brick, Robert M., to Continental Can Co., Inc. Art of producing hollow ingots. 3,016,587, 1–16–62, Cl. 22—140.
Brick, Robert M., to Continental Can Co., Inc. Art of preparing ingots with discontinuities and integrated bonds. 3,058,181, 10–16–62, Cl. 22—139.
Brick, Robert M., and R. S. Brigham, to Continental Can Co., Inc. Sealing structures for treating chambers. 3,032,-890, 5–8–62, Cl. 34—92.
Brick, Robert M., and E. I. Valyi, to Continental Can Co., Inc. Production of internally cladded laminate metal stock. 3,061,924, 11–6–62, Cl. 29—528.
Bricker, Clyde H., to Pan American Petroleum Corp. Pipe measuring appliance. 3,016,617, 1–16–62, Cl. 33—137.
Brickey, John K. Ground mulch. 3,030,734, 4–24–62, Cl. 47—9.
Brickle, Donald J., to National Distillers and Chemical Corp. Apparatus for stacking sheet articles. 3,017,178, 1–16–62, Cl. 271—63.
Brickle, Donald J., to National Distillers and Chemical Corp. Apparatus for V-slitting a moving web to produce mulching strip. 3,069,953, 12–25–62, Cl. 83—418.
Brickman, A. W.: *See*—
Landmann, Wendell A., and Batzer. 3,047,399.
Brickman, Leo, and M. I. Edenbaum, to Johnson & Johnson. Plaster of Paris bandage containing hydroxy propyl methyl cellulose. 3,043,298, 7–10–62, Cl. 128—91.
Bricout, Henri, to Etablissements Georges Martin. Reversing valve. 3,027,973, 4–3–62, Cl. 184—7.
Bridal Originals: *See*—
Nania, Vincent A., Jr. 3,064,268.
Bridegum, James E. Garden shears. 3,046,722, 7–31–62, Cl. 56—241.
Bridges, Ralph E.: *See*—
Wolkstein, Herbert J., and Bridge. 3,020,444.
Bridgeman, Edith: *See*—
Stroud, William F. 3,026,107.
Bridger, Grover L.: *See*—
Bielasky, Murrell L., and Bridger. 3,042,606.
Bridges, Charlotte K.: *See*—
Bryner, Ernest J., Ianuzzi, and Bridges. 3,054,167.
Bridges, Donald, Sr.: *See*—
Bryner, Ernest J., Ianuzzi, and Bridges. 3,054,167.
Bridges, Frank A.: *See*—
Wilson, Bert T., and Bridges. 3,041,586.
Bridges, Herman T., Jr. Folding cot for automobiles. 3,054,-121, 9–18–62, Cl. 5—118.
Bridges, Jack E., to Warwick Mfg. Corp. Voltage regulator 3,047,793, 7–31–62, Cl. 323—94.
Bridges, Raymond L., and F. D. Alexander; said Bridges assor. to Southwestern Illinois Coal Corp. Coal dewatering apparatus. 3,018,563, 1–30–62, Cl. 34—95.
Bridges, Ronald P., and T. E. Curtis, to A. B. Chance Co. Fuse cutout operating tool. 3,026,391, 3–20–62, Cl. 200—114.
Bridgewater, Thomas E. Impeller structure. 3,032,169, 5–1–62, Cl. 198—128.
Bridgewater, Thomas E. Impact crushing apparatus. 3,044,-720, 7–17–62, Cl. 241—275.
Bridgewater, Thomas E. Crusher apparatus. 3,057,564, 10–9–62, Cl. 241—91.
Bridgewaters, Virginia M. Adjustable and reversible garment. 3,064,265, 11–20–62, Cl. 2—74.
Bridwell, Harold C., to Jersey Production Research Co. Obtaining unaltered core samples. 3,064,742, 11–20–62, Cl. 175—226.
Bridwell, Robert A., to Northrop Corp. Heated draw die. 3,015,292, 1–2–62, Cl. 113—49.
Bridwell, Robert A., to Northrop Corp. Reflector for radiant heating. 3,015,711, 1–2–62, Cl. 219—34.
Briechle, Joseph, to Scovill Mfg. Co. Pencil type tire pressure gauge. 3,067,618, 12–11–62, Cl. 73—419.
Briede, Arthur F.: *See*—
Boone, Wallace D., and Briede. 3,042,084.
Briehl, Martin J.: *See*—
Kolda, Frank V., and Briehl. 3,046,634.
Brien, Arthur. Watch dial illuminating device. 3,018,614, 1–30–62, Cl. 58—50.
Brien, Huron C., to Kimberly-Clark Corp. Folding of cellulosic products. 3,031,185, 4–24–62, Cl. 270—62.
Brienza, Pancrasio, to Pabst Brewing Co. Illuminated signs. 3,056,221, 10–2–62, Cl. 40—130.
Brier Mfg. Co.: *See*—
Greenberg, Burleigh B. 3,028,647.
Brierley, Edgar, and A. H. Norris, to Leesona Holt Ltd. Apparatus for the treatment of textile filamentary material. 3,053,222, 9–11–62, Cl. 118—5.
Brierley, Richard W.: *See*—
Highfield, Frank W. W., and Brierley. 3,037,607.
Briggs, Emmett G., ½ to W. Coffee. Detachable blade bit. 3,039,548, 6–19–62, Cl. 175—412.
Briggs Filtration Co., The: *See*—
Figert, Donald M. 3,025,233.
Briggs, George E., Jr., to Halliburton Co. Wireline well treating apparatus. 3,045,756, 7–24–62, Cl. 166—162.
Briggs, George R.: *See*—
Rajchman, Jan A., and Briggs. 3,041,490.
Briggs, George R., to Radio Corp. of America. Ferroelectric memory systems. 3,046,529, 7–24–62, Cl. 340—173.2.
Briggs, James A.: *See*—
Bell, Angus S., Smithies, and Briggs. 3,044,914.
Briggs, James E., to E. I. du Pont de Nemours and Co. Furnace burner mounting. 3,026,926, 3–27–62, Cl. 158—1.
Briggs, John R.: *See*—
Pattison, Hubert A., Jr., and Briggs. 3,057,390.
Briggs, Quentin L., ½ to H. C. Mahan. Kite. 3,022,966, 2–27–62, Cl. 244—154.

Briggs, Richard: *See*—
Birch, Clifford W., Jr., and Briggs. 3,047,248.
Briggs, Robert A.: *See*—
Palermo, Peter M., and Briggs. 3,031,618.
Briggs, Robert F., to Perry-Briggs Co. Communication system. 3,030,446, 4–17–62, Cl. 179—1.
Briggs, Rufus L., to Electrarc, Inc. Anti-twister for wire or tube stock machine. 3,040,946, 6–26–62, Cl. 226—180.
Briggs, Southwick W. Filter element and method. 3,062,378, 11–6–62, Cl. 210—493.
Briggs & Stratton Corp.: *See*—
Catterson, Robert K. 3,028,848.
Harkness, Joseph R. 3,044,238.
Harkness, Joseph R. 3,044,239.
Jacobi, Edward N. 3,029,626.
Jacobi, Edward N. 3,040,557.
Svendsen, Ib H. 3,040,853.
Svendsen, Ib H. 3,056,394.
Briggs, Thomas H., and E. A. Hollenbach, to Drexel Dynamics Corp. Test jig for contacting circuit card positions. 3,016,489, 1–9–62, Cl. 324—158.
Briggs, Vernon R., to Thompson Ramo Wooldridge Inc. Pulse width signal multiplying system. 3,017,109, 1–16–62, Cl. 235—194.
Briggs, Wade. Diesel locomotive fire preventer. 3,066,464, 12–4–62, Cl. 55—436.
Briggs, Walton E.: *See*—
Wood, Charles D., and Briggs. 3,036,457.
Briggs, Walton E., to General Electric Co. Leak detector test table. 3,026,715, 3–27–62, Cl. 73—40.7.
Brigham, Richard B.: *See*—
Markley, John F., Bartlo, Brigham, and Campbell. 3,055,154.
Brigham, Roger S.: *See*—
Brick, Robert M., and Brigham. 3,032,890.
Brigham, William T., and L. J. Gerweck. Checkout counter. 3,066,780, 12–4–62, Cl. 186—1.
Bright, Elvin M., to Air Logistics Corp. Reinforced continuous sheeting and the method and apparatus for making same. 3,053,717, 9–11–62, Cl. 154—52.
Bright, Richard L., to Westinghouse Electric Corp. Switching systems. 3,040,191, 6–19–62, Cl. 307—88.5.
Bright, Richard L., and R. R. Jackson, to Westinghouse Electric Corp. Current balancing apparatus. 3,018,380, 1–23–62, Cl. 307—58.
Bright, Samuel F. Lawn mower and rake. 3,015,929, 1–9–62, Cl. 56—193.
Bright, Wilfred, to Ford Motor Co. Motor vehicle seat. 3,022,993, 2–27–62, Cl. 267—107.
Brightly, Frederick C., Jr. Galvanizing flux composition and treatment. 3,030,241, 4–17–62, Cl. 148—23.
Brightly, Frederick C., Jr. Acid pickling composition with inhibitor. 3,056,746, 10–2–62, Cl. 252—148.
Brightman, Barrie, to General Dynamics Corp. Pulse frequency dividing system using ring counter and means to cancel some input pulses. 3,020,419, 2–6–62, Cl. 307—88.5.
Brightman, Barrie, to General Dynamics Corp. Tone selection circuit. 3,066,193, 11–27–62, Cl. 179—18.
Brighton, John C.: *See*—
Ludlow, Edmund, Irwin, and Brighton. 3,020,379.
Wintermute, Glenn E., Smith, and Brighton. 3,022,211.
Brightside Foundry & Engineering Co., Ltd., The: *See*—
Udall, William. 3,051,290.
Brightwell, John W.: *See*—
Boyland, Donald A., and Brightwell. 3,026,214.
Brigmon Paul L. Portable canopy. 3,048,439, 8–7–62, Cl. 296—95
Bril, Kazimierz J.: *See*—
Krumholz, Pawel, and Bril. 3,054,655.
Brill, Charles A. Vertically alignable structural assembly and wall hanger therefor. 3,033,507, 5–8–62 Cl. 248—201.
Brill, Edward F., to Fiber-Foam Marine Products, Inc. Buoyant structures. 3,035,286, 5–22–62, Cl. 9—11.
Brill, Friedrich E., to Rheinstahl Siegener Eisenbahnbedarf A.G. Sliding door arrangement for vehicles such as railroad cars. 3,017,674, 1–23–62, Cl. 20—23.
Brill, Friedrich E., and K. Trümper, to Rheinstahl Siegener Eisenbahnbedorf Aktiengesellschaft. Two-car truck without center pin. 3,041,983, 7–3–62, Cl. 105—199.
Brill, Harold C., to E. I. du Pont de Nemours and Co. Stable, aqueous solutions of organic titanium compounds. 3,017,-282, 1–16–62, Cl. 106—287.
Brill, Joseph, Jr., and R. W. McPeters. Infant's nursing bottle. 3,043,462, 7–10–62, Cl. 215—11.
Brill, Klaus, to E. Leybold's Nachfolger. Rotary vacuum pump. 3,053,439, 9–11–62, Cl. 230—205.
Brill, William F., to Petro-Tex Chemical Corp. Process for preparation of 2-cyclohexenone. 3,050,561, 8–21–62, Cl. 260—586.
Brilliant, Herbert. Swab. 3,018,778, 1–30–62, Cl. 128—269.
Brilliant, Martin B., to National Co., Inc. Large bandwidth low noise antenna circuit. 3,019,335, 1–30–62, Cl. 250—20.
Brillinger James H. to W. R. Grace & Co. Crown closures. 3,032,826, 5–8–62, Cl. 18—59.
Brillion Iron Works, Inc.: *See*—
Gier, Richard W., and Weaver. 3,070,084.
Brilmyer, Harold G., to Huck Mfg. Co. Rivet fastener with symmetrically proportioned lock collar having tool engaging stop means. 3,057,246, 10–9–62, Cl. 85—5.
Brilmyer, Harold G., to Huck Mfg. Co. Core removal tool. 3,063,148, 11–13–62, Cl. 30—276.
Brilmyer, Harold G., and G. E. Wehlann, to Huck Mfg. Co. Driving tool for applying torque driven lockbolt fasteners. 3,025,730, 3–20–62, Cl. 78—46.
Brimberg, Tostern, and F. Tildt, to Electrolux, Aktiebolaget. Suction cleaner diffuser. 3,031,826, 5–1–62, Cl. 55—492.
Brimelow, Peter: *See*—
Crosfield, John F., Allen, Brimelow, and Price. 3,051,-841.
Brimhall, Ray S. Combination of a normal and auxiliary braking system. 3,062,591, 11–6–62, Cl. 303—6.
Brinati, William, and L. J. Sylvester, to Putt-Er-Up Enterprises Inc. Golf practice device. 3,070,372, 12–25–62, Cl. 273—178.
Brindell, Gordon D., to Cities Service Research and Development Co. Method for preparing amino substituted cyclohexanol. 3,068,286, 12–11–62, Cl. 260—563.
Brindell, Gordon D., and A. J. Lundeen, to Continental Oil Co. Catalyst preparation. 3,025,245, 3–13–62, Cl. 252—429.
Brinen, Paul F., to Young Radiator Co. Damper adjusting device. 3,069,692, 12–25–62, Cl. 98—106.
Brink, Robert M., to Time, Inc. Binary translation network. 3,060,420, 10–23–62, Cl. 340—347.
Brinkel, Edwin P., to Ross Operating Valve Co, Non-tie-down valve. 3,047,017, 7–31–62, Cl. 137—620.
Brinker, Harry F., and J. Clark, to United States Steel Corp. Imperforate deck panel with flush tie-down fittings. 3,038,394, 6–12–62, Cl. 94—11.
Brinker, Keith C. and M. I. Bro, to E. I. du Pont de Nemours and Co. Process for polymerizing tetrafluoroethylene. 3,066,126, 11–27–62, Cl. 260—92.1.
Brinkerhoff, Donald E., to General Motors Corp. Signal adjusting antenna. 3,022,420, 2–20–62, Cl. 250—20.
Brinkerhoff, Joris M., to Laboratory for Electronics, Inc. Computing apparatus. 3,036,774, 5–29–62, Cl. 235—164.
Brinkley, Stuart R., Jr., and G. Von Elbe, to Consolidation Coal Co. Explosive system containing ammonium nitrate. 3,046,887, 7–31–62, Cl. 102—22.
Brinkman, Earl W.: *See*—
Lee, Robert A., and Brinkman. 3,022,691.
Brinkman, Earl W. Drain cock. 3,032,311, 5–1–62, Cl. 251—351
Brinkman, Herbert C., Jr.: *See*—
Brinkman, Susan B., and H. C. Brinkman, Jr. 3,059,634.
Brinkman, Susan B., and H. C. Brinkman, Jr. Power operated oven rack. 3,059,634, 10–23–62, Cl. 126—337.
Brinkmann, Otto, to Helipara Gesellschaft mit beschrankter Haftung Luftfahrzeugbau. Parachute. 3,035,798, 5–22–62, Cl. 244—145.
Brinnand, Seddon: *See*—
Carroll, Aubrey G. 3,021,142.
Brinsmade, Daniel S., to The Connecticut Hard Rubber Co. Reinforced indatable seal and method of making. 3,042,-980, 7–10–62, Cl. 20—69.
Brinson, Louis T., Sr. Side ditcher attachment for excavating machine. 3,032,899, 5–8–62, Cl. 37—90.
Brinster, John F., and W. C. Johnson, to General Device, Inc. Multiple output sequential signal source. 3,052,871, 9–4–62, Cl. 340—167.
Brinza, Joseph E.: *See*—
Yamokoski, Charles P., Sunthimer, and Brinza. 3,042,-102.
Brisbane, Eugene C. Fluid pressure valve. 3,033,515, 5–8–62, Cl. 251—175.
Brisbee, Clyde M., to Marconi's Wireless Telegraph Co. Ltd. Phase indicator of phase locked oscillators utilizing cathode ray tube. 3,034 054, 5–8–62, Cl. 324—88.
Briscoe, Donald M., to Sweden Freezer Mfg. Co. Flexible drive beater. 3,045,988, 7–24–62, Cl. 259—106.
Briscoe, George H., to Lacy-Hulbert & Co. Ltd. Rotary air compressors. 3,047,212, 7–31–62, Cl. 230—210.
Briscoe, John F. Packless flow swivel. 3,067,777, 12–11–62, Cl. 138—44.
Briscoe, John J.: *See*—
Brown, Roy S., and Briscoe. 3,060,777.
Briscoe, Madison H., to Circular Bonding Co., Inc. Portable thermal bonding device. 3.043.210. 7–10–62. Cl. 100—93.
Briscoe, William L., to United States of America, Atomic Energy Commission. Digital Q meter. 3,020,750, 2–13–62, Cl. 73—67.2.
Brisch, Herbert B., to Sylvania Electric Products Inc. Collision warning device. 3,046.548. 7–24–62. Cl. 343—7.7.
Briskin, Joseph. Interpolymers of methyl methacrylate, alpha-methylstyrene and butadiene elastomers and process of preparing the same. 3,029,222, 4–10–62, Cl. 260—45.5.
Briskin, Theodore S., R. L. Moore, and R. A. Rom, to Revere Camera Co. Slide centering means and magazine. 3,027,-666, 4–3–62, Cl. 40—79.
Briskin, Theodore S., R. L. Moore, and R. A. Rom, to Revere Camera Co. Clutch controlled drive means for a slide projector. 3,059,741, 10–23–62, Cl. 192—12.
Briskin, Theodore S., R. L. Moore, and R. A. Rom, to Revere Camera Co. Automatic threading mechanism for motion picture projector. 3,063,610, 11–13–62, Cl. 226—91.
Brislawn, Mark G., Jr., to E. R. Doak. Articulatable control vane. 3,055,618, 9–25–62, Cl. 244—87.
Brisse, William C., to Laconia Malleable Iron Co., Inc. Guy clamp. 3,044,807, 7–17–62, Cl. 287—49.
Brissette, Richard S., to Union Carbide Corp. Reinforced resin laminates. 3,063,883, 11–13–62, Cl. 154—43.
Brisson, John R., to Lodal Inc. Loader apparatus. 3,016,157, 1–9–62, Cl. 214—302.

Brister, Paul M., and H. H. Nelken, to The Babcock & Wilcox Co. Fluid heating unit. 3,060,908, 10–30–62, Cl. 122—481.

Bristle, Samuel M. Assemblage support for animal oilers. 3,045,647, 7–24–62, Cl. 119—157.

Bristol Aircraft Ltd. : *See*—
Baker, William A., and Shoemack. 3,032,461.
Hafner, Raoul. 3,032,295.
Strang, William J. 3,069,115.

Bristol Co., The : *See*—
Blakeslee, Clinton A., and Dyson. 3,023,282.
Russell, John L. 3,045,089.

Bristol, David A., to Robertshaw-Fulton Controls Co. Pivotally mounted apparatus. 3,043,579, 7–10–62, Cl. 267—1.

Bristol-Myers Co. : *See*—
Clarey, John J. 3,054,535.
Fardig, Oliver B. 3,061,515.
Gourevitch, Alexander, Chertow, and Lein. 3,042,582.
Hooper, Irving R., Fardig, and Lein. 3,061,516.
Johnson, David A., and Richardson. 3,015,676.
Kuna, Samuel, and Pircio. 3,024,166.
Kuna, Samuel, and Pircio. 3,036,955.
Kuna, Samuel, and Pircio. 3,051,622.
Schmitz, Henry, Hooper, Lein, and Heinemann. 3,060,099.
Siegal, Bernard. 3,018,223.
Thomas, Ralph H. 3,027,064.
Thomas, Ralph H. 3,063,085.
Tibbitts, Ernest P. 3,061,084.
Wilson, Armin G., and Kuna. 3,029,275.
Wolcott, George L. 3,027,303.

Bristol Siddeley Engines Ltd. : *See*—
Allen, Sidney. 3,029,602.
Bonsall, Frank, and Massey. 3,018,624.
Clark, Frederick I. 3,028,730.
Davis, Bernard V. 3,044,222.
Foster, Richard A. 3,031,156.
Henderson, Frank D. 3,050,996.
Lewis, Gordon M. 3,029,011.
Marchant, Francis C. I., Batchelor, and Jagaard. 3,056,258.
Orchard, Peter F., and Clark. 3,034,297.
Plummer, Henry J. 3,043,061.
Potter, Raymond J., and Toyne. 3,028,120.
Powell, Kenneth S. 3,018,093.
Foweraker, David B. 3,056,541.
Slatter, Brian H. 3,048,012.
Willis, William. 3,064,710.

Bristow, Norman W. : *See*—
Oxley, Peter, Bristow, Housley, Woolfe, and Wilmshurst. 3,028,386.
Oxley, Peter, Woolfe, Bristow, Fraser, Williams, and Wilmshurst. 3,032,555.

Bristow, Robert H., to General Electric Co. Metalized ceramic member and composition and method for manufacturing same. 3,023,492, 3–6–62, Cl. 29—195.

Bristow, Robert H., to General Electric Co. Forsterite-steel ceramic bodies. 3,060,040, 10–23–62, Cl. 106—46.

Bristow, Willard H. Electric brush. 3,028,614, 4–10–62, Cl. 15—23.

Britain, J. W., to Mobay Chemical Co. Process of making cellular polyurethane using N,N-dialkyl-3-(dialkyl amino) propylamine catalyst. 3,036,020, 5–22–62, Cl. 260—2.5.

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Brite, Alan D. Oven cleaning article. 3,051,559, 8–28–62, Cl. 23—282.

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Amstein, Edmund H. 3,019,084.
Clements, Stephen G., and Laithwaite. 3,047,111.
Pearson, William K. J. 3,049,950.
Ransley, Charles E. 3,028,324.

British Celanese Ltd. : *See*—
Bates, Harold, Hindley, and Popiolek. 3,040,027.
Bell, Angus S., Krause, and Hammerschmidt. 3,025,187.
Bell, Angus S., Smithies, and Briggs. 3,044,914.
Brown, Russell J., and Downing. 3,066,007.
Finlayson, Donald, and Goddard. 3,025,128.
Finlayson, Donald, and Goddard. 3,025,129.
Gentle, Alexander H., Richmond, and Tumstall. 3,034,279.
Gibbons, Leslie B., and Riley. 3,058,290.
Grady, Dennis, Bates, and Fisher. 3,031,254.
Grebby, John W., Hawtin, and Downing. 3,046,608.
Larman, William T., Hawtin, and Downing. 3,023,075.
Mann, Ralph J., and Noon. 3,016,728.
Olpin, Henry C. Wood, and Savory. 3,069,219.
Wylde, Joseph R., and Drewitt. 3,022,545.

British Cotton Industry Research Assn., The : *See*—
Collins, George E., and Rees. 3,034,940.

British Dielectric Research Ltd. : *See*—
Domanski, Stanislaus M. 3,069,276.

British Drug Houses Ltd., The : *See*—
Barton, Suzanne P., Ellis, and Petrow. 3,070,613.
Burn, Derek, Kirk, Petrow, and Weston. 3,023,206.
Ellis, Bernard, Hill, Petrow, and Williamson. 3,062,844.
Kirk, David N., and Petrow. 3,057,859.
Petrow, Vladimir, and Weston. 3,040,035.
Petrow, Vladimir, and Williamson. 3,028,380.
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Petrow, Vladimir, and Williamson. 3,047,591.
Petrow, Vladimir, Thomas, and Stephenson. 3,028,420.
Waddington-Feather, Sheila M. (nee Booker), Ellis, and Petrow. 3,021,345.

British Engines Ltd. : *See*—
Lawman, William E. 3,039,796.

British Federal Welder and Machine Co. Ltd. : *See*—
Tribe, Thomas F. 3,068,346.
Tribe, Thomas F. 3,068,347.
Tribe, Thomas F. 3,068,349.

British Hoist and Crane Co. Ltd. : *See*—
Evans, Percy N. 3,045,836.

British Hydrocarbon Chemicals Ltd. : *See*—
Addy, Leslie E. 3,047,630.
Bennett, John B., Bream, Hadley, and Wood. 3,056,845.
Habeshaw, John, Oldham, and Wirth. 3,024,292.
Habeshaw, John, and Rae. 3,042,660.

British Industrial Sand Ltd. : *See*—
Segrove, Herbert D. 3,050,564.

British Insulated Callender's Cables Ltd. : *See*—
Dean, Noel S., and Tarbox. 3,067,782.
Dean, Noel S., and Tarbox. 3,069,108.
Dean, Noel S., and Wardley. 3,067,781.
Graneau, Peter, and Bonikowski. 3,018,978.
Grieve, George T. W. 3,032,464.
Hinds, Ronald. 3,018,050.
Hinds, Ronald. 3,060,976.
Kelk, Eric. 3,062,912.
Lyons, Bernard J. 3,055,815.

British Internal Combustion Engine Research Assn., The : *See*—
Mansfield, Wilfred P. 3,038,458.

British Iron & Steel Research Association, The : *See*—
Bramley, Lionel N. 3,017,551.
Bramley, Lionel N. 3,036,253.
Burns, Charles. 3,031,916.
Klemantaski, Sidney, Johnson, and Ridgion. 3,028,231.
Littlewood, Goeffrey. 3,025,579.
Ravenscroft, Jack. 3,043,894.
Salt, Frederick W. 3,054,707.

British Nylon Spinners Ltd. : *See*—
Bond, Norman J., and Hooper. 3,062,081.
Brunt, Kenneth A., and Williams. 3,044,962.
Brunt, Norman. 3,067,602.
Fisher, Jeffrey O., and Wilson. 3,033,477.
Jones, Clive R. 3,015,872.

British Oxygen Co. Ltd., The : *See*—
Armond, John W., and Carse. 3,063,217.
Black, Geoffrey D. 3,034,533.
Black, Geoffrey D. 3,063,620.
Black, Geoffrey D. 3,068,857.
Blay, Benjamin. 3,034,352.
Booth, Cyril, Hedley, and Gilpin. 3,067,049.
Churcher, Thomas C. 3,058,734.
Churcher, Thomas C. 3,058,823.
Copleston, Francis W., and Gourd. 3,035,158.
Cresswell, Robert A., and Burden. 3,064,114.
Deville, Arthur E., and Penson. 3,035,159.
Gardner, John B. 3,058,319.
Japolsky, Nicholas S. 3,059,110.
Kittel, Francis W. B. 3,034,510.
Littlewood, Anthony D. 3,034,308.
Phillips, Richard M. 3,069,051.
Schuftan, Paul M. 3,058,315.
Schuftan, Paul M., and Smith. 3,034,306.
Snowman, John W., and Bell. 3,068,879.
Steventon, Charles F., and King. 3,058,733.

British Petroleum Co. Ltd., The : *See*—
Agutter, Ronald G., and Parkes. 3,057,376.
Blake, Edward J., and Morrison. 3,065,173.
Blake, Edward J., and Morrison. 3,065,174.
Blake, Edward J., and Morrison. 3,065,175.
Blake, Edward J., and Morrison. 3,065,176.
Bourne, Kenneth H., and Holmes. 3,041,385.
Demeester, Jaques. 3,020,228.
Desty, Denis H., Haresnape, and Whyman. 3,046,699.
Martin, Ronald J. 3,054,760.
Meyer, Percy, and Griffiths. 3,027,319.
Moy, John A. E., and White. 3,033,777.
Moy, John A. E., White, and Yeo. 3,027,413.
Newby, William J., and Porter. 3,024,186.
Pethrick, Samuel R., and Groszek. 3,062,742.
Pethrick, Samuel R., and McAllan. 3,033,664.
Pethrick, Samuel R., and Sparke. 3,065,180.
Porter, Hubert T., and Lister. 3,041,290.
Vosser, John L. 3,050,455.
White, Peter T. 3,051,647.
Winbladh, Ragnar T. B. 3,053,730.
Yeo, Alan A., and Haresnape. 3,024,188.

British Ropes Ltd. : *See*—
Bender, Harold M. 3,052,276.

British Steel Piling Co. Ltd., The : *See*—
Peregrine, Edgar P., and Rowland. 3,040,591.

British Telecommunications Research Ltd. : *See*—
Baker, George T. 3,055,983.
Fuller, Peter B. R. 3,033,065.
Gaite, Harold D. 3,045,904.
Holloway, Dennis G., and Parrett. 3,054,865.
Payne, Kenneth J., and Clark. 3,032,696.
Prowse, Donald W., and Rayden. 3,033,347.
Terlecki, Renat, and Bailey. 3,040,129.
British Thomson-Houston Co., The : *See*—
Rogers, Reginald. 3,040,998.
British Thomson-Houston Co. Ltd., The : *See*—
Blake, Leslie R., and Howells. 3,025,705.
Griffiths, Leonard. 3,041,503.
Lancaster, John K., Milner, and Hirst. 3,027,449.
Roxburgh, Albert, and Leigh. 3,017,482.
Wilkinson, Kenneth J. R., and Matthews. 3,025,443.
British Titan Products Co., Ltd. : *See*—
Coates, William H., and Hayden. 3,057,701.
Evans, Arthur W., and Groves. 3,017,254.
Hughes, William. 3,036,926.
Hughes, William, and Arkless. 3,060,001.
Hughes, William, and Evans. 3,043,656.
Hughes, William, and Evans. 3,043,657.
Hughes, William, and Evans. 3,043,660.
Hughes, William, Evans, and Harris. 3,043,659.
Strain, Franklin, Wilson, Dietz, Hughes, and Arkless. 3,068,113.
British Vacuum Flask Co. Ltd., The : *See*—
Hassid, Maurice A. 3,039,639.
Brittain, Clarence F., and M. E. Jones, to Heath Aircraft, Inc. Fish egg incubators. 3,024,764, 3–13–62, Cl. 119—3.
Brittain, Willard M. : *See*—
Di Nicolantonio, Frank, Jr., and Brittain. 3,035,465.
Brittingham, Louis W., Jr. Diaper pin and safety pin sharpener. 3,050,911, 8–28–62, Cl. 51—214.
Britton, David A. Hydraulic impact tool. 3,063,501, 11–13–62, Cl. 166—178.
Britton, Edgar C., L. H. Horsley, and D. B. Kellom, to The Dow Chemical Co. Purification of pyrazine. 3,033,864, 5–8–62, Cl. 260—250.
Britton, Eric, to Eric Britton & Co. Ltd. Collar stiffener and method of making. 3,044,916, 7–17–62, Cl. 154—46.
Britton, Eric & Co. Ltd. : *See*—
Britton, Eric. 3,044,916.
Britton, Harrison J., to Hydromatics, Inc. Packed joint. 3,062,555, 11–6–62, Cl. 277—105.
Brittsan, Ronald R., to Adaptaplex Mfg. Co. Advertising display device. 3,067,536, 12–11–62, Cl. 40—135.
Brixner, Frederick W., to General Railway Signal Co. Code communication system. 3,034,099, 5–8–62, Cl. 340—163.
Brixner, Frederick W., to General Railway Signal Co. Normally inactive multiple station code communication system. 3,034,100, 5–8–62, Cl. 340—163.
Brixner, Lothar H., to E. I. du Pont de Nemours, and Co. Compounds of the formula $AB'_{0.5}B''_{0.5}O_3$ and process for preparing the same. 3,034,857, 5–15–62, Cl. 23—51.
Brixner, Lothar H., to E. I. du Pont de Nemours and Co. Compounds of the formula $AB'_{0.5}B''_{0.5}O_3$ and process for preparing the same. 3,035,896, 5–22–62, Cl. 23—51.
Brixner, Lothar H., to E. I. du Pont de Nemours and Co. Transparent ferromagnetic material and method for producing the same. 3,043,684, 7–10–62, Cl. 23—50.
Brizzolara, Robert T. Gas detectors. 3,040,245, 6–19–62, Cl. 324—30.
Brkich, Alexander, to Ingersoll-Rand Co. Rotary pump. 3,067,692, 12–11–62, Cl. 103—149.
Brna, Miro A. : *See*—
Mojonnier, Julius J., and Brna. 3,061,448.
Bro, Manville I. : *See*—
Brinker, Keith C., and Bro. 3,066,122.
Bro, Manville I., to E. I. du Pont de Nemours and Co. Polymerization of perfluoroolefin mixtures. 3,023,196, 2–27–62, Cl. 260—87.5.
Bro, Manville I., and R. C. Schreyer, to E. I. du Pont de Nemours and Co. Polymerization of tetrafluoroethylene. 3,032,543, 5–1–62, Cl. 260—92.1.
Broach, Wilson J. : *See*—
Komarmy, Julius M., and Broach. 3,066,161.
Broad, Michael J. : *See*—
Moss, Norman, and Broad. 3,037,353.
Moss, Norman, and Broad. 3,040,761.
Broad, Michael J., to The Plessey Co. Ltd. Inertia operated fuel governors. 3,045,686, 7–24–62, Cl. 137—56.
Broad, Michael J., to The Plessey Co. Ltd. Liquid-fuel operated engine starters. 3,063,242, 11–13–62, Cl. 60—39.14.
Broadbent, Bernard G., and F. A. Hemphill, to Sylvania Electric Products Inc. Beading machine. 3,019,558, 2–6–62, Cl. 49—1.
Broadbent, Kent D., to Hughes Aircraft Co. Magnetic device. 3,046,532, 7–24–62, Cl. 340—174.
Broadbent, Kent D., to Hughes Aircraft Co. Thin film magnetic device. 3,068,453, 12–11–62, Cl. 340—174.
Broadbent, Robert K., to Geo. Knight & Co., Inc. Vamp crimper. 3,048,864, 8–14–62, Cl. 12—54.4.
Broadbent, Thomas, & Sons Ltd. : *See*—
Cran, William B. G. 3,021,966.
Broadhead, Ronald L. : *See*—
Stephens, James R., Van Strien, and Broadhead. 3,040,000.
Broadhead, Ronald L., to Standard Oil Co. Dry bright waxy resin. 3,040,001, 6–19–62, Cl. 260—77.
Broadhead, Ronald L., to Standard Oil Co. Baking type resins from benzene tricarboxylic acids. 3,047,525, 7–31–62, Cl. 260—32.8.
Broadhead, Ronald L., to Standard Oil Co., Air-dry surface coating resin. 3,066,108, 11–27–62, Cl. 260—22.
Broadhead Ronald L., and E. K. Fields, to Standard Oil Co. Polyester resin containing pyridine dicarboxylic acid. 3,055,025, 9–18–62, Cl. 260—75.
Broadhead, Ronald L., and R. E. Van Strien, to Standard Oil Co. Water soluble polyesters of benzene polycarboxylic acids. 3,053,783, 9–11–62, Cl. 260—29.2.
Broadhead, Samuel L., Jr., to Collins Radio Co. Noise limiter and squelch circuit. 3,064,196, 11–13–62, Cl. 325—319.
Broadhead, Samuel L., Jr., and H. G. Michael, to Collins Radio Co. Noise controlled variable A. V. C. delay circuit. 3,036,-211, 5–22–62, Cl. 250—20.
Broadhead, Samuel L., Jr., and A. L. Kemper, to Collins Radio Co. Filter circuit. 3,049,667, 8–14–62, Cl. 324—82.
Broadhead, Samuel L., Jr., and E. O. Schoenike, to Collins Radio Co. Noise blanking circuit. 3,056,087, 9–25–62, Cl. 325—478.
Broadley, Peter R., to Bituminous Coal Research, Inc. Pulverized coal burning generating electric locomotive. 3,021,-797, 2–20–62, Cl. 105—36.
Broadley, Robert D., to Allied Chemical Corp. Refrigeration process. 3,047,506, 7–31–62, Cl. 252—67.
Broadley, William A., and E. P. Jastram, Jr., to Texas Instruments Inc. Electrical switch means. 3,023,350, 2–27–62, Cl. 318—221.
Broadway, Sanford L. Firearm testing device. 3,024,653, 3–13–62, Cl. 73—167.
Broadwell, Walter B., to General Dynamics Corp. Motion digitizer. 3,028,589, 4–3–62, Cl. 340—347.
Brobeck, William M. Phonograph record player and changer. 3,069,171, 12–18–62, Cl. 274—10.
Brobst, Paul L. : *See*—
Montross, Eugene V., Clancy, and Brobst. 3,040,860.
Brobst, Robert A., to Hercules Powder Co. Process for the stabilization of starch ethers. 3,049,538, 8–14–62, Cl. 260—233.3.
Brocard, Jean M. R., to Compagnie de Recherches et d'Etudes Aeronautiques. Annular aircraft with elastic collector ring rim. 3,054,578, 9–18–62, Cl. 244—23.
Brocard, Joseph J. M. R. : *See*—
Denis, Louis, Wolff, and Brocard. 3,018,748.
Brochhagen, Franzkarl : *See*—
Weinbrenner, Erwin, Tischbein, Hoppe, and Brochhagen. 3,050,432.
Brock, Geoffrey E., and E. S. Wajda, to International Business Machines Corp. Semiconductor zone refining and crystal growth. 3,036,898, 5–29–62, Cl. 23—301.
Brock, George. Snow ploughs and like surface scraping appliances. 3,028,692, 4–10–62, Cl. 37—42.
Brock, Henry W., D. F. Hooton, and H. E. Ojala, to The Standard Products Co. Apparatus for making strip structures. 3,053,306, 9–11–62, Cl. 153—64.
Brock, Marlyn J., to The Firestone Tire & Rubber Co. Rubber vulcanization. 3,057,832, 10–9–62, Cl. 260—79.
Brock, Milton. Clasp and buckle. 3,026,591, 3–27–62, Cl. 24—233.
Brock, Norbert : *See*—
Arnold, Herbert, Bourseaux, and Brock. 3,035,080.
Arnold, Herbert, Brock, and Bourseaux. 3,018,302.
Brock and Rankin : *See*—
Hildmann, William B. 3,024,746.
Brockett, Peter C., to Laboratory For Electronics, Inc. Traffic actuated control system and apparatus. 3,056,946, 10–2–62, Cl. 340—35.
Brockhaus, Frederick B., and W. Muhm. Process of manufacturing a shaped body of porous polystyrene foam of low density. 3,042 973. 7–10–62, Cl. 18—48.
Brocklander, Leroy H. Extension rule. 3,065,546, 11–27–62, Cl. 33—75.
Brockman, Arthur C. Semi-trailer construction and tractor and semi-trailer combination. 3,066,954, 12–4–62, Cl. 280—423.
Brockman, Arthur C. Semi-trailer construction. 3,066,955, 12–4–62, Cl. 280—423.
Brockman, Frank G., P. W. Beck, and K. E. Matteson, to North American Philips Co., Inc. Square loop ferromagnetic material. 3,039.966, 6–19–62, Cl. 252—62.5.
Brockman, Herbert P., to United States of America, Navy. Transistor circuit for generating constant amplitude wave signals. 3,049,625, 8–14–62, Cl. 307—88.5.
Brockman, John A., Jr. : *See*—
Linkenheimer, Wayne H., Patterson, and Brockman. 3,070,506.
Brockman, Marguerite L., to Globar-Carlin Inc. Face mask. 3,060,445, 10–30–62, Cl. 2—9.
Brockway, Brock F., to E. D. Bullard Co. Safety hat. 3,041,-621, 7–3–62, Cl. 2—3.
Brockway, Charles E., to A. E. Staley Mfg. Co. Sizing hydrophobic fibers with acrylate polymers and gelatinized starch or graft copolymers thereof. 3,061,472, 10–30–62, Cl. 117—139.5.
Brockway, Charles E., D. W. Christman, and R. R. Estes, to A. E. Staley Mfg. Co. Sizing hydrophobic fibers with graft copolymers of gelatinized starch and acrylates. 3,061,471, 10–30–62, Cl. 117—139.5.
Brockway, Charles E., and H. R. Ready, to A. E. Staley Mfg. Co. Process for preparing starch carbamates and the resulting product. 3,065,223, 11–20–62, Cl. 260—233.5.

Brodard et Taupin, Societe: *See*—
Lasnier, Joseph G. R. 3,024,888.

Broderick, Frank W. Method of producing matching embossing rolls, 3,022,231, 2–20–62, Cl. 204—25.

Broderick, John J.: *See*—
Petersen, Maurice E., and Broderick. 3,043,969.

Broders, Claude O.: *See*—
Abild, Robert N., Broders, Crim, and Gallant. 3,050,936.

Broders, Claude O., and P. M. Rahilly, to United Aircraft Corp. Oxidizer flow control. 3,041,828, 7–3–62, Cl. 60—35.6.

Brodersen, Rolf K., to General Precision, Inc. Signal generator. 3,061,805, 10–30–62, Cl. 336—135.

Broderson, Dean E., and K. H. Davidson, to Pitman Mfg. Co. Fire fighting apparatus or the like having de-icing means. 3,064,754, 11–20–62, Cl. 182—2.

Broderson, Dean E., R. B. Jenkins, and A. D. Moore, to Pitman Mfg. Co. Fire fighting apparatus or the like and controls therefor. 3,066,756, 12–4–62, Cl. 182—2.

Broderson, Neil O., to Capital Plastics, Inc. Method and apparatus for forming articles of plastic having integral sheen. 3,041,670, 7–3–62, Cl. 18—26.

Broderson, Neil O., to Rochester Button Co. Article feeding device. 3,047,193, 7–31–62, Cl. 221—163.

Brodie, George R., and W. B. Raybuck, to Fred'k H. Levey, Co., Inc. Printing press. 3,034,429, 5–15–62, Cl. 101—218.

Brodie, Harry J., to E. I. du Pont de Nemours and Co. Process for the purification of liquids. 3,052,714, 9–4–62, Cl. 260—486.

Brodie, James H. Kit sail for boats. 3,041,994, 7–3–62, Cl. 114—39.

Brodie, Ralph N., Co.: *See*—
Berck, William F. 3,021,684.
Berck, William F. 3,040,573.
Berck, William F. 3,040,574.

Brodin, Jean: *See*—
Raymond, Francois H., Richard, Recoque, and Brodin. 3,058,098.

Brodrene Gram A/S: *See*—
Gram, Hans. 3,024,622.

Brodsky, Elihu, and H. A. Levine, to Loral Electronics Corp. Automatic signal finder. 3,020,402, 2–6–62, Cl. 250—20.

Brodsky, Norman. Adapter device for conventional bed pans. 3,069,693, 12–25–62, Cl. 4—112.

Brody, Alec E. Foot supporting device. 3,068,872, 12–18–62, Cl. 128—595.

Brody, Arthur. Apparatus for recording lending library tractions. 3,036,216, 5–22–62, Cl. 250—65.

Brody, Stanley S. V-G flight indicator. 3,040,567, 6–26–62, Cl. 73—178.

Broeder, Raymond L., A. J. Tache, and W. E. Kamradt, to Chrysler Corp. Mold cement dispenser and method of cementing shell mold segments. 3,038,522, 6–12–62, Cl. 156—375.

Broedner, Ernst, to Anker-Phoenix Nähmaschinen Aktiengesellschaft. Self lubricating needle bar oscillator frame. 3,031,990, 5–1–62, Cl. 112—256.

Broekhuysen, William C., G-V Controls Inc. Time-delay relay. 3,056,871, 10–2–62, Cl. 200—122.

Broerman, Arthur B., to Phillips Petroleum Co. Differential refractometer. 3,051,037, 8–28–62, Cl. 88—14.

Broers, Wiley G. Crib motivator. 3,040,342, 6–26–62, Cl. 5—109.

Broetzman, Norton O., and A. E. Elfe, ½ to H. W. Eslien. Depth control for plows. 3,042,121, 7–3–62, Cl. 172—239.

Broeze, John E., to United Aircraft Corp. Rotary selective line printer. 3,031,953, 5–1–62, Cl. 1—92.

Broft, Eduard: *See*—
Lukas, Adam, and Broft. 3,026,965.

Brogan, Thomas F., and W. J. Klem, to Eastman Kodak Co. Means for detecting faulty exposure of reversible motion picture film magazines. 3,053,140, 9–11–62, Cl. 88—16.

Brogden, Oren D. Tunnel cleaning machine. 3,016,201, 1–9–62, Cl. 239—164.

Brogdex Co.: *See*—
Cothran, Charles D. 3,034,903.

Broge, Robert W.: *See*—
Cooley, William E., Grabenstetter, and Broge. 3,070,510.

Brogle, Richard C.: *See*—
Fuld, George J., Brogle, and Fuld. 3,021,294.

Broh-Kahn, Robert H., and E. J. Sasmor, to Laboratories for Pharmaceutical Development, Inc. Choline salicylate composition and methods of use. 3,069,321, 12–18–62, Cl. 167—65.

Brohl, Earl M., to General Motors Corp. Fuel system pressure modulator. 3,039,485, 6–19–62, Cl. 137—483.

Broich, Franz: *See*—
Frese, Albert, Broich, and Kränzlein. 3,043,825.

Brokaw, Adrian P., to Dresser Industries, Inc. Discriminating interval time computer for acoustic well logging systems. 3,019,413, 1–30–62, Cl. 340—15.

Brokaw, Roberts W., Jr., to E. I. du Pont de Nemours and Co. Portable lectern. 3,056,230, 10–2–62, Cl. 45—121.

Brola, Gabriel, to Societe Anonyme: Generale Thermique-Procedes Brola. Burner apparatus. 3,021,892, 2–20–62, Cl. 158—77.

Brola, Gabriel, to Societe Anonyme: Generale Thermique-Procedes Brola. Fuel burning system having an improved ignition arrangement. 3,028,908, 4–10–62, Cl. 158—28.

Brola, Gabriel, to Generale Thermique-Procedes Brola. Combustion apparatus 3 031,012, 4–24–62, Cl. 158—76.

Broling, Keith W., to Universal Railway Devices Co. Slack adjuster. 3,025,932, 3–20–62, Cl. 188—200.

Brollo, Giuseppe. Dish-washing machine. 3,060,944, 10–30–62, Cl. 134—58.

Broman, Cyrus R.: *See*—
Kompelien, Alexander O., and Broman. 3,048,173.

Broman, Cyrus R., to Baxter Laboratories, Inc. Manually-operable blood pump. 3,035,575, 5–22–62, Cl. 128—214.

Broman, Cyrus R., to Baxter Laboratories, Inc. Oxygenator. 3,058,464, 10–16–62, Cl. 128—214.

Broman, Cyrus R., and K. E. Baumann, to Baxter Laboratories, Inc. Pressure flow device. 3,052,238, 9–4–62, Cl. 128—214.

Broman, John S., to Nordberg Mfg. Co. Tightening device for mantles and liners in crushers. Re. 25,233, 8–28–62, Cl. 241—299.

Broman, Victor E., and G. Bosmajian, Jr., to Sinclair Refining Co. Unsymmtrical ketones in lubricating oil. 3,063,-942, 11–13–62, Cl. 252—33.4.

Bromedica Lnt.: *See*—
Baruchello, Gianfranco. 3,066,135.

Brömer, Heinz, and N. Meinert, to Ernst Leitz Gesellschaft mit beschrankter Haftung. Optical glass. 3,043,702, 7–10–62, Cl. 106—47.

Bromley, Harold, to Henry Simon, Ltd. Boxmaking and like machines. 3,045,562, 7–24–62, Cl. 93—58.2.

Bromley, James E., and W. H. Hills, to The Chemstrand Corp. Apparatus for treating filament yarn. 3,024,516, 3–13–62, Cl. 28—1.

Bromley, James E., and W. H. Hills, to The Chemstrand Corp. Method of treating filament yarn. 3,024,517, 3–13–62, Cl. 28—72.

Bromley, James E., and W. H. Hills, to Monsanto Chemical Co. Apparatus for processing cold-drawable textile filaments. 3,041,706, 7–3–62, Cl. 28—1.

Bromo Mint Co.: *See*—
Steiner, Albert M. 3,046,692.

Broms, Allen. Projector improvements. 3,020,797, 2–13–62, Cl. 88—24.

Bronco, Charles J., and R. M. St. John, to United States of America, Air Force. Demountable photomultiplier refrigerator. 3,018,397, 1–23–62, Cl. 313—22.

Brondyke, Kenneth J.: *See*—
Hess, Paul D., Brondyke, and Jarrett. 3,039,864.
Lee, Maurice F., Brondyke, and Hess. 3,025,155.

Bronfman, Benjamin. Compression molding of plastic materials. 3,064,312, 11–20–62, Cl. 18—55.

Bronicki, Lucien: *See*—
Tabor, Harry Z., and Bronicki. 3,040,528.

Bronikowski, Raymond J.: *See*—
Lang, Richard J., and Bronikowski. 3,038,048.

Bronnenkant, Paul H., and C. M. Ferree. High velocity injection molding of thermoplastics. 3,024,498, 3–13–62, Cl. 18—30.

Bronnenkant, Paul H., and C. M. Ferree. Method of quickly filling a mold cavity with thermoplastic material. 3,052,-925, 9–11–62, Cl. 18—55.

Bronnes, Robert L., to North American Philips Co., Inc. Metal-to-ceramic seal and method of making same. 3,057,-445, 10–9–62, Cl. 189—36.5.

Bronson, Florence M., and D. W. Gest. Container and bottle combination. 3,027,037, 3–27–62, Cl. 215—100.5.

Bronstein, Harry: *See*—
Bronstein, Nathan and H. 3,015,867.

Bronstein, Nathan and H. Coupling assembly with release pin. 3,015,867, 1–9–62, Cl. 24—123.

Bronstert, Klaus: *See*—
Kastning, Ernst-Guenther, and Bronstert. 3,070,574.

Bronswerk N.V.: *See*—
Olie, Jacob R., and van Winsen. 3,043,768.

Bronte, William, and S. E. Lingenfelter, to Corrobilt Container Co. Corrugated container and method of producing same. 3,063,615, 11–13–62, Cl. 229—23.

Bronzini, Felice. Device for machines as used in preparation for spinning, adapted to facilitate the condensation of webs. 3,059,285, 10–23–62, Cl. 19—150.

Broockmann, Karl: *See*—
Siebel, Gustav, Müller, Trägner, and Broockmann. 3,032,448.

Brook Airway Ltd.: *See*—
Brook, Morris H. 3,017,880.

Brook, Arthur F., and P. A. Eramo, to Wire-O Corp. Wire forming machine. 3,064,694, 11–20–62, Cl. 140—105.

Brook, James E., to The Bendix Corp. Phase discriminator. 3,065,361, 11–20–62, Cl. 307—88.5.

Brook, James H. T., and R. W. Glazebrook, to Shell Oil Co. Radiation resistant mineral oil composition. 3,047,501, 7–31–62, Cl. 252—45.

Brook, Morris H., to Brook Airway Ltd. Resuscitator. 3,017,880, 1–23–62, Cl. 128—29.

Brookbank, Earl B., Jr.: *See*—
Robinson, James V., and Brookbank. 3,020,176.

Brooke, Dennis G.: *See*—
Evans, Peter, and Brooke. 3,042,718.

Brooke, Jesse M., to Phillips Petroleum Co. Moisture detection. 3,019,342, 1–30–62, Cl. 250—106.

Brooke, Jesse M., to Phillips Petroleum Co. Method and apparatus for peroxide production. 3,050,368, 8–21–62, Cl. 23—207.

Brooke, Jesse M., to Phillips Petroleum Co. Removal of sulfur materials from hydrocarbons. 3,051,646, 8–28–62, Cl. 208—250.

Brooke, Jesse M., to Phillips Petroleum Co. Removal of polymerized materials from surfaces. 3,070,548, 12–25–62, Cl. 252—172.

Brooke, Le Roy J., to Wildman Jacquard Co. Method of forming a selvage in knitting fabrics. 3,059,456, 10–23–62, Cl. 66—88.

Brooke, Le Roy J., to Wildman Jacquard Co. Method of knitting. 3,066,511, 12–4–62, Cl. 66—88.

Brooke, Wendell C.: *See*—
Bickel, Richard L., Brooke, Day, McDonald, Millis, and Nygaard. 3,039,604.

Brooke, Wilfrid, and H. Howe. Electric remote control devices. 3,054,944, 9–18–62, Cl. 323—89.

Brookens, Ronald G.: *See*—
Havens, Carl E., and Brookens. 3,048,637.
Havens, Carl E., and Brookens. 3,068,193.

Brooke-Smith, Thomas W., to Short Brothers & Harland Ltd. Aircraft adapted for vertical take-off and landing. 3,041,-018, 6–26–62, Cl. 244—83.

Brookhart, Jack L.: *See*—
French, Hobert W., Jr., Maier, and Brookhart. 3,019,708.

Brooking, Ivor H.: *See*—
Chilman, John A., and Brooking. 3,024,848.

Brooklyn Fibre Broom Co., Inc.: *See*—
Kubick, Matthew T. 3,052,907.

Brookman, Roger S.: *See*—
Morris, Lewis D., and Brookman. 3,060,663.

Brooks, Alfred E., to Eastman Kodak Co. Method for coating weos. 3,065,098, 11–20–62, Cl. 117—34.

Brooks, Burton: *See*—
Brooks, Richard J. and B. 3,024,258.
Brooks, Richard J. and B. 3,058,920.
Brooks, Richard J. and B. 3,069,242.
Brooks, Richard J. and B. 3,069,243.

Brooks, Charles, and T. Sutton. Metalized plastic stripping. 3,024,147, 3–6–62, Cl. 154—53.6.

Brooks, Charles, T. A. Sutton, and C. Brownold, to Cee Bee Mfg. Co. Inc. Apparatus for making fabric faced belts with plastic backings. 3,045,742, 7–24–62, Cl. 156—463.

Brooks, Charles, and T. A. Sutton, to Cee-Bee Mfg. Co., Inc. Metal reinforced vinyl plastic striping. 3,046,174, 7–24–62, Cl. 154—52.1.

Brooks, Charles H.: *See*—
Gorand, Alfred J., and Brooks. 3,018,021.

Brooks, Charles H., to Sun Oil Co. Slurry stop plug. 3,026,-894, 3–27–62, Cl. 137—240.

Brooks, Chester E., G. B. Crofutt, Jr., and J. L. Henry, to Bell Telephone Laboratories, Inc. Distributed line concentrator system. 3,070,666, 12–25–62, Cl. 179—18.

Brooks, E. J., Co.: *See*—
Moberg, Sigurd M. 3,033,016.

Brooks, Earnest, and J. P. Davis. Helicopter. 3,029,048, 4–10–62. Cl. 244—17.19.

Brooks, Eugene H., to Continental Gin Co. Lint cotton cleaner with by-pass. 3,024,499, 3–13–62, Cl. 19—3.

Brooks, Eugene H., to Continental Gin Co. High speed trumper and bat feeding mechanism. 3,024,721, 3–13–62, Cl. 100—97.

Brooks Foods, Inc.: *See*—
Wegener, Richard H. 3,026,791.

Brooks, Frank W., to General Motors Corp. Brake booster valve means. 3,037,487, 6–5–62, Cl. 121—41.

Brooks, Frank W., to General Motors Corp. Dual master cylinder. 3,062,011, 11–6–62, Cl. 60—54.6.

Brooks, Frank W., to General Motors Corp. Brake booster unit. 3,068,842, 12–18–62, Cl. 121—41.

Brooks, Frank W., Jr., to Socony Mobil Oil Co., Inc. Concurrent deposition of lead sulfide and mercaptan conversion in hydrocarbon oils. 3,050,460, 8–21–62, Cl. 208—198.

Brooks, Frederick P., Jr., and D. W. Sweeney, to International Business Machines Corp. Program interrupt system. 3,048,332. 8–7–62. Cl. 235—157.

Brooks, Grenville P., and O. H. Ketchum. Amusement apparatus. 3,025,632, 3–20–62, Cl. 46—65.

Brooks, Harvey, to United States of America, Navy. Torpedo echo steering system. 3,024,755, 3–13–62, Cl. 114—23.

Brooks, Harvey, to United States of America, Navy. Balanced input circuit. 3,025,493, 3–13–62, Cl. 340—6.

Brooks, Hershell G. Fishing rod holder and signalling means. 3,058,251, 10–16–62, Cl. 43—17.

Brooks Instrument Co., Inc.: *See*—
Keller, George D. 3,065,635.

Brooks, Jefferson D., III, to National Textile Research, Inc. Shock absorber for life raft. 3,037,218, 6–5–62, Cl. 9—11.

Brooks, John G., and G. W. Koehn, to Armstrong Cork Co. Process for making rubber-base adhesive containing preformed phenolic resin-alkaline earth metal salt. 3,044,976, 7–17–62, Cl. 260—32.8.

Brooks, John W., to Remington Arms Co., Inc. Safety shield for explosively driven tools. 3,018,481, 1–30–62, Cl. 1—44.5.

Brooks, Julius E., Jr., to Olin Mathieson Chemical Corp. Firearm with trigger assembly and slide arm assembly supported by barrel lug. 3,041,768, 7–3–62, Cl. 42—16.

Brooks, Kenneth W. Furniture components. 3,030,162, 4–17–62, Cl. 312—111.

Brooks, Linzy W., ½ to E. D. Farley. Sealing washer for faucets and other valves. 3,053,502, 9–11–62, Cl. 251—357.

Brooks, Manuel D. Horticultural procedure and apparatus. 3,063,197, 11–13–62, Cl. 47—58.

Brooks, Marion E., to Bickerstaff, Inc. Apparatus for lifting a stack of building units and the like. 3,066,968, 12–4–62, Cl. 294—63.

Brooks, Marion E., to Bickerstaff, Inc. Apparatus for lifting stacks of building units. 3,069,196, 12–18–62, Cl. 294—63.

Brooks, Marvin C., and I. A. Prager, to United States Rubber Co. Method of increasing storage life of polyester resin compositions. 3,028,360, 4–3–62, Cl. 260—45.4.

Brooks, Percy E., to Western Electric Co., Inc. Welding fixture. 3,054,887. 9–18–62. Cl. 219—158.

Brooks and Perkins, Inc.: *See*—
Kirkpatrick, James S., and Krause. 3,044,166.

Brooks Products, Inc.: *See*—
Bush, Howard G. 3,025,774.

Brooks, Ralph P.: *See*—
White, James M., Cardwell, Davisson, and Brooks. 3,023,800.

Brooks, Ray G. Quick-action toilet hinge-post coupling. 3,063,063, 11–13–62, Cl. 4—236.

Brooks, Ray G., and G. D. Turnblom. Irrigator. 3,034,733, 5–15–62, Cl. 239—542.

Brooks, Richard J. and B., to The Chemithon Corp. Continuous sulfonation process. 3,024,258, 3–6–62, Cl. 260—400.

Brooks, Richard J. and B., to The Chemithon Corp. Process for preparing a mixture of an alkyl benzene sulfonate and an alcohol sulfate. 3,058,920, 10–16–62, Cl. 252—353.

Brooks, Richard J. and B., to Chemithon Corp. Sulfonation and sulfiation apparatus. 3,069,242, 12–18–62, Cl. 23—260.

Brooks, Richard J. and B., to The Chemithon Corp. Reaction apparatus. 3,069,243, 12–18–62, Cl. 23—260.

Brooks, Robert C.: *See*—
Lucky, Maurice C., and Brooks. 3,036,807.

Brooks, Robert D., to R. Hoe & Co., Inc. Rotary saw breakup head. 3,027,106, 3–27–62 Cl. 241—294.

Brooks, Robert D., to General Electric Co. Reactor control. 3,042,600, 7–3–62, Cl. 204—193.2.

Brooks, Robert S., and F. L. Berridge, to Joseph Robb & Co., Ltd. Lubricating pads for railway car journals. 3,037,-829, 6–5–62, Cl. 308—243.

Brooks, Warren E., to Socony Mobil Oil Co., Inc. Drill bit. 3,027,952, 4–3–62, Cl. 175—329.

Brookshire, Robert R., to Hughes Aircraft Co. Method of copper plating by chemical reduction. 3,046,159, 7–24–62, Cl. 117—130.

Brookson, William C., to American Can Co. Clinched seam construction and formation. 3,053,409, 9–11–62, Cl. 220—67.

Broomall, Robert M.: *See*—
Beaman, Norman V., and Broomall. 3,035,725.

Broome, Marshall B., to Dresser Industries, Inc. Well logging motor control system. 3,061,734, 10–30–62, Cl. 307—22.

Broome, Marshall B., and R. L. Tucker, to Well Surveys, Inc. Responder and telemetering transmitter for borehole caliper. 3,044,175, 7–17–62, Cl. 33—178.

Broomell, George L., Jr.: *See*—
Gilbert, Paul C., Jewett, and Broomell. 3,022,760.

Broomhead, Frank, and J. J. Priestley, ¼ to W. C. Holmes & Co. Ltd., and ¼ to Andre Rubber Co. Ltd. Debonding of rubber from metal. 3,034,774, 5–15–62, Cl. 263—2.

Broosilovski, Serguey A.: *See*—
Agabalianz, Georgui G., Merzhanian, and Broosilovski. 3,062,656.

Brophy, Ralph D., and O. T. Greenwood. Insect trap. 3,058,-257, 10–16–62, Cl. 43—139.

Brosch, Pringle A. Boat centering device. 3,035,723, 5–22–62, Cl. 214—84.

Brosch, Walter R.: *See*—
Larrick, Howard M., and Brosch. 3,049,699.

Broschard, Frank G. Knitting accessory and process. 3,054,-277, 9–18–62, Cl. 66—1.

Broschke, Heinrich: *See*—
Leitz, Ludwig, Broschke, and Sanger. 3,028,784.

Broschke, Heinrich, to Ernst Leitz Gesellschaft mit beschrankter Haftung. Camera with a built-in exposure meter. 3,037,436, 6–5–62, Cl. 95—10.

Broschke, Heinrich, to Ernst Leitz G.m.b.H., Optische Werke. Photographic camera with built-in photo-electric light meter coupled with camera adjusting members. 3,041,951, 7–3–62, Cl. 95—10.

Brosene, William G., Jr., to Big Four Industries Inc. Mechanical bead breaker. 3,064,718, Cl. 157—1.28.

Brosene, William G., Jr., and R. D. Henderson, deceased (R. L. Henderson, administrator); said Brosene assor. to Big Four Industries, Inc. Tire demounting apparatus. 3,032,095, 5–1–62, Cl. 157—1.28.

Brosheer, John C., to Tennessee Valley Authority. Nitric phosphate process. 3,028,230, 4–3–62, Cl. 71—37.

Brösicke, Paul to Carl Zeiss. Cross-slide table for microscopes. 3,044,354, 7–17–62, Cl. 88—40.

Broske, William F., to AMP Inc. Closure member for the firming chamber of an explosively-operated device. 3,029,-705, 4–17–62, Cl. 89—17.

Broske, William F., to AMP Inc. Insulation push back stripper. 3,044,333, 7–17–62, Cl. 81—9.5.

Broske, William F., to AMP Inc. Wire tool. 3,044,334, 7–17–62, Cl. 81—9.51.

Brosnan, Dennis W. Railway car repair system and apparatus. 3,028,819, 4–10–62, Cl. 104—176.

Bross, Aaron A., to United States of America, Army. Device to measure maximum acceleration and deceleration forces in small arms projectile. 3,024,652, 3–13–62, Cl. 73—167.

Bross, Helmut. Piston fountain pen including reserve ink chamber. 3,027,874, 4–3–62, Cl. 120—42.16.

Brossi, Arnold: *See*—
Besendorf, Hedwig, Brossi, and Schnider. 3,067,203.

Brossi, Arnold, to Hoffmann-La Roche Inc. Preparation of substituted 2-oxobenzoquinolizines. 3,045,021, 7–17–62, Cl. 260—289.

Brotchie, Walter J., to United Shoe Machinery Corp. Shoe supporting mechanism. 3,034,125, 9–18–62, Cl. 12—123.

Brother Seimitsu Kogyo Kabushiki Kaisha: *See*—
Kodera, Toshio, Morishita, and Ota. 3,039,412.

Brothers, Abe R. Plug for removing deleterious products of combustion from tobacco smoke. 3,062,220, 11–6–62. Cl. 131—201.

Brothers, Inc.: *See*—
Gordon, Frank D. 3,044,082.

Brothers, William W., Jr., to United States of America, Air Force. Cartridge belt delinker and ejector. 3,049,057, 8–14–62, Cl. 89—33.

Brotherton, Robert J.: *See*—
McCloskey, Allen L., Brotherton, and Petterson. 3,062,823.

Brotherton, Robert J., and L. L. Petterson, to United States Borax & Chemical Corp. Method for preparing bis-(dimethylamino)borane. 3,024,279, 3–6–62, Cl. 260—551.

Brotherton, Robert J., G. W. Willcockson, and H. Steinberg, to United States Borax & Chemical Corp. Tris(1,3,2-oxazaborolidino)borazoles, tris (benzo-1,3,2-oxazaborolo)borazoles and a method for their preparation. 3,045,038, 7–17–62, Cl. 260—462.

Brotherton, Robert J., and L. L. Petterson, to United States Borax & Chemical Corp. Aminodiboron compounds and method of making same. 3,048,632, 8–7–62, Cl. 260—551.

Brotherton, Robert J., and W. G. Woods, to United States Borax & Chemical Corp. Method for preparing tetraalkoxydibaron and tetraaryloxydibaron compounds. 3,057,905, 10–9–62, Cl. 260—462.

Brotz, Walter: *See*—
Kaupp, Josef, Brotz, and Metz. 3,038,815.

Brotzmann, Karl: *See*—
Knuppel, Helmut, and Brotzmann. 3,056,595.

Broudo, Saul, to United States of America, Navy. Pressurized hose and roller assembly for arresting gear. 3,057,440, 10–9–62, Cl. 188—86.

Brough, Wayne S., and D. R. Stanforth. Auxiliary sole. 3,063,165, 11–13–62, Cl. 36—7.7.

Broughton, Amos W., Jr., and H. G. Koch, to Johns-Manville Corp. Expansible packing. 3,015,503, 1–2–62, Cl. 286—7.

Broughton, Douglas J., to Buxton Inc. Expansible pass case. 3,067,792, 12–11–62, Cl. 150—39.

Broughton, Leslie W., and H. A. Walder, to Minister of Supply, in Her Majesty's Government of the United Kingdom of Great Britain and Northern Ireland. Thermal ignition rocket motor. 3,040,521, 6–26–62, Cl. 60—35.6.

Broughton, Sidney H., and V. R. Erickson, to Omark Industries, Inc. Explosively actuated tool. 3,046,557, 7–31–62, Cl. 1—44.5.

Broughton, Vernon P. Skid mounted dump unit for flat bed trucks and trailers. 3,031,231, 4–24–62, Cl. 298—17.

Brouillard, Robert E., J. Gannon, and L. Katz, to General Aniline & Film Corp. Conditioning of phthalocyanine pigments. 3,041,192, 6–26–62, Cl. 106—308.

Brouillette, Carl V., W. M. Foley, Jr., and H. McKennis, Jr., to United States of America, Navy. Self-curing aniline-formaldehyde resin binder composition and method of preparation. 3,025,159, 3–13–62, Cl. 94—19.

Broun, Thorowgood. T., Jr.: *See*—
Helvenston, Edward P., and Broun. 3,024,595.

Brouse, David Y., and E. W. Desaulniers, Jr., to Sylvania Electric Products, Inc. Photoflash lamp. 3,045,460, 7–24–62, Cl. 67—31.

Brouse, Shirley R., to United States Steel Corp. Wire-tying machine. 3,037,534, 6–5–62, Cl. 140—93.6.

Broussard, Frank P., to Texaco Inc. Tube bundle handling equipment. 3,069,141, 12–18–62, Cl. 254—185.

Broussard, John G., and J. D. Griffis. Drill bit guide. 3,016,073, 1–9–62, Cl. 144—105.

Broussard, Robert: *See*—
Toce, Charles A., and Broussard. 3,061,662.

Broussard, Wesley W. Shoe tool. 3,032,793, 5–8–62, Cl. 12—77.5.

Broussaud, Georges, and V. Biggi, to Compagnie Generale de Telegraphie Sans Fil. Storing device for ultra high frequency pulses. 3,034,064, 5–8–62, Cl. 328—121.

Brousseau, Marc A. Ski sled. 3,057,633, 10–9–62, Cl. 280—16.

Brouwer, Frans, to Canadian Westinghouse Co., Ltd. Pattern tracer servosystem. 3,017,552, 1–16–62, Cl. 318—39.

Brouwer, Frans, to Westinghouse Electric Corp. Modulator system for micro-positioning transducer. 3,027,516, 3–27–62, Cl. 328—133.

Brouwer, Harvard, to Lear Siegler, Inc. Regulated power inverter. 3,070,759, 12–25–62, Cl. 331—113.

Browe, Frederic K.: *See*—
Rumrill, Howard J., Howe, Harnett, and Browe. 3,038,686.

Brower, David F.: *See*—
Harvey, George W., and Brower. 3,043,981.

Brower, Herman W. Knockdown frame for furniture. 3,066,982, 12–4–62, Cl. 297—443.

Brown, Adolph M.: *See*—
Wood, Ernest C. 3,033,204.
Wood, Ernest C. 3,040,747.

Brown, Adolph M. Ligature clip. 3,056,408, 10–2–62, Cl. 128—325.

Brown, Adolph M., 50% to Foundation for Prosthetic Research, and 50% to The Mount Sinai Hospital (Research Fund). Skin treating method and composition. 3,067,106, 12–4–62, Cl. 167—90.

Brown, Albert W., to Parker Hannifin Corp. Probe terminal assembly for in-flight re-fueling. 3,059,895, 10–23–62, Cl. 251—149.7.

Brown, Albert W., and D. R. Garrett, to Parker-Hannifin Corp. Closure device for tanks. 3,038,632, 6–12–62, Cl. 220—46.

Brown, Alex T., III, to International Telephone and Telegraph Corp. Automatic gain control circuit. 3,036,276, 5–22–62, Cl. 330—138.

Brown, Alexander B., A. J. Martin, and F. Morrow, to Babcock and Wilcox Ltd. Process for the production of beryllium having increased ductility at high temperatures. 3,065,117, 11–20–62, Cl. 148—13.

Brown, Alvin M., J. S. Ayers, R. L. Shields, J. M. Maloney, and T. J. Kmiecik, to Jas. H. Matthews & Co. Stamping mechanism. 3,060,834, 2–13–62, Cl. 101—4.

Brown, Alvin M., J. S. Ayers, R. L. Shields, J. M. Maloney, and T. J. Kmiecik, to Jas. H. Matthews & Co. Remote control apparatus for a stamping mechanism. 3,049,992, 8–21–62, Cl. 101—99.

Brown, A. M. Automatic diaper washer. 3,045,462, 7–24–62, Cl. 68—12.

Brown, Archer W.: *See*—
Potter, Kenneth F., and Brown. 3,037,641.

Brown, Arling D., Jr., to Clevite Corp. Balanced hydrostatic inking system. 3,054,109, 9–11–62, Cl. 346—117.

Brown, Arthur A.: *See*—
Currey, Charles, Brown, Holbrook, Truesdale, and Freeman. 3,070,798.

Brown, Arthur K., Jr.: *See*—
Austin, Leonard E., and Brown. 3,017,691.

Brown, Barnett C. Tool holder. 3,021,012, 2–13–62, Cl. 211—60.

Brown, Barry D., to Raytheon Co. Balanced demodulators. 3,064,200, 11–13–62, Cl. 329—162.

Brown, Belden B. Foldable yoke life preserver. 3,065,476, 11–27–62. Cl. 9—345.

Brown, Bernard E.: *See*—
Birkenbach, Eugene J., Brown, Vendl, and Pfeiffer. 3,049,183.

Brown, Bernard J.: *See*—
Gagne, Oscar J., and Brown. 3,064,314.

Brown, Boveri & Cie. Aktiengesellschaft: *See*—
Asseo, Edgar. 3,035,188.
Brandle, Heinrich, and Wideroe. 3,030,442.
Eggeling, Helmut. 3,058,050.
Luthy, Adolf, and Hummel. 3,067,490.
Marque, André. 3,050,946.
Marque, Andre. 3,069,134.
Martin, Andre A. 3,055,227.
Noser, Renato, and Felber. 3,030,567.
Piazza, Gian F. 3,041,473.
Plust, Heinz-Gunther, and Weisshaar. 3,055,099.
Steinmuller, Hans. 3,066,522.
Thommen, Hans. 3,054,877.
Vonarburg, Hansjorg. 3,054,062.
Von Cube, Hans-Ludwig, and Sauerbrünn. 3,034,004.
Weehuizen, Frits. 3,069,859.
Wideroe, Rolf, and Sempert. 3,021,445.

Brown & Brown, Inc.: *See*—
Brown, Chalmers S. 3,022,666.

Brown & Bryant, Inc.: *See*—
Pearce, Cy M. 3,062,563.

Brown, Burton F., and E. R. Robbins, to General Electric Co. Arc-vaporizer system. 3,041,558, 6–26–62, Cl. 333—81.

Brown, Byron T.: *See*—
Pennington, Edward N., Dye, Brown, and Wood. 3,038,788.

Brown, Calvin F., R. M. Jackson, and R. T. Campbell, to United States of America, Navy. Ball set back detent. 3,045,598, 7–24–62, Cl. 102—80.

Brown, Calvin O., to Set Screw & Mfg. Co. Machine for feeding and orienting headless screws. 3,069,049, 12–18–62, Cl. 221—171.

Brown, Carl E., and F. P. Crotser, to Revco, Inc. Built-in refrigeration apparatus with defrost controls. 3,022,639, 2–27–62, Cl. 62—155.

Brown, Carl L., J. R. Myers, C. J. Kinsey, and H. B. Menefee, to Republic Steel Corp. Apparatus for making reinforcing mesh. 3,050,614, 8–21–62, Cl. 219—56.

Brown, Carl W., I. J. Shepperd, and F. D. Werner, to United States of America, Navy. Automatic radio navigation system. 3,025,519, 3–13–62, Cl. 343—105.

Brown, Chalmers S., to Brown & Brown, Inc. Float guide for a sewer regulator. 3,022,666, 2–27–62, Cl. 73—322.5.

Brown, Charles B.: *See*—
Macdonald, Waldron S., and Brown. 3,020,843.

Brown, Charles G.: *See*—
Larsen, Roy L., and Brown. 3,034,017.

Brown, Charles H., to Morning Coffee, Inc. Mounting means and lock for an apparatus casing. 3,031,875, 5–1–62, Cl. 70—168.

Brown, Charles K., Jr.: *See*—
Lacy, Johnson W., and Brown. 3,026,043.

Brown, Charles M., and R. L. Folkman, to Union Carbide Corp. High-vacuum titanium A.C. arc melting. 3,024,102, 3–6–62, Cl. 75—10.

Brown, Charles W., Jr.: *See*—
Baker, William E. 3,057,113.

Brown, Chauncey E., to Martin-Marietta Corp. Surface heater. 3,063,442, 11–13–62, Cl. 126—271.2.

Brown, Chester W. Ground sensing and protective unit. 3,058,035, 10–9–62, Cl. 317—22.

Brown, Cicero C. Screw-set non-retrievable packer. 3,033,-290, 5–8–62, Cl. 166—181.

Brown, Cicero C. Coupling devices. 3,037,797, 6–5–62, Cl. 285—18.

Brown, Cicero C., to Brown Oil Tools, Inc. Well packer. 3,050,128, 8–21–62, Cl. 166—120.

Brown, Cicero C. Well packer and well production apparatus. 3,059,699, 10–23–62, Cl. 166—187.

Brown, Cicero C. Gravel packing of wells and apparatus therefor. 3,062,284, 11–6–62, Cl. 166—19.

Brown, Cicero C., to Brown Oil Tools, Inc. Permanent-type well packer. 3,062,291, 11–6–62, Cl. 166—119.

Brown, Cicero C. Differential pressure fill-up shoe. 3,062,296, 11–6–62, Cl. 166—225.

Brown, Cicero C. Well packers. 3,068,942, 11–18–62. Cl. 166—198.

Brown, Cicero C., and C. B. Cochran; said Cochran assor. to said Brown. Hydraulically-actuated well packer. 3,035,-639, 5–22–62, Cl. 166—150.

Brown Citrus Machinery Corp.: *See*—
Bireley, Frank W., and Foss. 3,017,821.

Brown, Clarence M., and W. H. Vaughan, to A. May. Food product processing apparatus. 3,039,379, 6–12–62, Cl. 99—

Brown, Claude M. Electric razor rental machine. 3,034,516, 5–15–62, Cl. 132—80.

Brown, Clifford R., to National Cooperatives, Inc. Metering feeding mechanism. 3,031,108, 4–24–62, Cl. 222—196.

Brown, Clinton E., and J. W. Crenshaw. Image intensifier apparatus. 3,039,017, 6–12–62, Cl. 315—11.

Brown, Clyde A., to Hallack & Howard Mfg Co., a division of Boise-Cascade Corp. Upholstered seating. 3,064,281, 11–20–62, Cl. 5—353.7.

Brown Co.: *See*—
Taylor, Arthur R. 3,060,693.
Waldie, Conrad T., Jr., and Hearn. 3,018,214.

Brown Counter Co.: *See*—
Blustein, Abraham. 3,046,582.

Brown, Dale H., and D. W. Leiby, to General Electric Co. Control system. 3,022,235, 2–20–62, Cl. 204—154.2.

Brown, Daniel L.: *See*—
Vinal, Francis E., and Brown. 3,038,860.

Brown, David, Tractors Ltd.: *See*—
Webster, Frederick. 3,019,922.

Brown, Delmont D. Sanitary sample collector. 3,052,399, 9–4–62, Cl. 229—85.

Brown, Derrick C., to Telephone Mfg. Co. Ltd. Arrangements for providing two-way communication at intermediate points on a telephone circuit. 3,054,859, 9–18–62, Cl. 179—15.

Brown, Dewey. Flush tank valve construction. 3,021,529, 2–20–62, Cl. 4—57.

Brown, Donald, to United States of America, Army. Slip compensator for mechanical integrators. 3,040,979, 6–26–62, Cl. 235—61

Brown, Donald A., to Donn Products Inc. Staple with legs having notches and projections. 3,023,660, 3–6–62, Cl. 85—49.

Brown, Donald A., to Donn Products Inc. Support for tile ceiling. 3,055,466, 9–25–62, Cl. 189—37.

Brown, Donald J.: *See*—
Touey, George P., and Brown. 3,053,696.

Brown, Donovan, and J. J. Joyce. Paraplegic hospital chair. 3,038,174, 6–12–62, Cl. 5—63.

Brown, Dwight C. Collapsible pallets. 3,041,029, 6–26–62, Cl. 248—120.

Brown, Dwight C. Bowling game kit. 3,059,924, 10–23–62, Cl. 273—37.

Brown, Earl F., to Bell Telephone Laboratories, Inc. Time division multiplexing of television and telephone messages. 3,021,384, 2–13–62, Cl. 178—5.6.

Brown, Earl H., to Tennessee Valley Authority. Tricalcium diammonium pyrophosphate. 3,028,217, 4–3–62, Cl. 23—107.

Brown, Earl H., to Tennessee Valley Authority. Monocalcium diammonium pyrophosphate. 3,053,623, 9–11–62, Cl. 23—107.

Brown, Earl L., to Monsanto Chemical Co. Detergent compositions having improved foam-stability. 3,032,506, 5–1–62, Cl. 252—161.

Brown, Edgar A., to International Business Machines Corp. Data sensing circuit. 3,043,505, 7–10–62, Cl. 235—61.11.

Brown, Edgar A., and G. H. Schacht, to International Business Machines Corp. Print hammer actuator. 3,049,990, 8–21–62, Cl. 101—93.

Brown, Edward A., to G. D. Searle & Co. 11-oxygenated 17α-carboxyethyl-17β-hydroxyandrosta-1,4-dien-3-one lactones. 3,043,835, 7–10–62, Cl. 260—239.57.

Brown, Edward A., to G. D. Searle & Co. 11-oxygenated polydehydro 17-carboxyethyl-9-halo-17-hydroxyandrostan-3-one lactones. 3,053,840, 9–11–62, Cl. 260—239.57.

Brown, Edward A., and J. A. Cella, to G. D. Searle & Co. Acetoxylated 17α-carboxyethyl-17β-hydroxyandrost-4-en-3-one lactones and intermediates. 3,036,069, 5–22–62, Cl. 260—239.57.

Brown, Edward G. Slicing knife. 3,035,344, 5–22–62, Cl. 30—115.

Brown, Edward M., to Chrysler Corp. Exhaust gas heating system for intake manifold hot spot and control therefor. 3,026,861, 3–27–62, Cl. 123—122.

Brown, Edwards, W. S. Woodward, and F. D. Wade. Means for imposing a predetermined force between adjacent members. 3,060,612, 10–30–62, Cl. 42—75.

Brown, Elmo C.: *See*—
Gensheimer, David E., and Brown. 3,061,654.

Brown, Eric A., to Polyther Ltd. Bench construction. 3,022,110, 2–20–62, Cl. 297—248.

Brown, Eric D.: *See*—
Polmanteer, Keith E., and Brown. 3,050,492.

Brown, Eric D., to Dow Corning Corp. Method of treating reinforcing silica. 3,024,126, 3–6–62, Cl. 106—308.

Brown, Ernest C., to Wolverine Equipment Co. Method of treating discrete particles. 3,060,590, 10–30–62, Cl. 34—20.

Brown, Ernest N., to Stearns-Rogers Mfg. Co. Apparatus for hauling ore in open pit mines. 3,034,669, 5–15–62, Cl. 214—

Brown, Ernest R., to Dayco Corp. Printing blankets. 3,033,-709, 5–8–62, Cl. 117—161.

Brown, Erwin W., and E. G. Budnick, to Minnesota Mining and Mfg. Co. Tubing and method of making the same. 3,056,488, 10–2–62, Cl. 138—118.

Brown, Felix H.: *See*—
Kallmann, Hartmut P., Furst, and Brown. 3,068,178.

Brown Fintube Co.: *See*—
Booth, Seth W., Toomey, and Brown. 3,017,833.
Brown, John W., Jr. 3,016,893.
Brown, John W., Jr. 3,028,855.

Brown, Forrest W., to Reflectone Electronics, Inc. Simulated fuse teaching device. 3,023,518, 3–6–62, Cl. 35—19.

Brown, Frank: *See*—
Walling, Cheves T., Brown, and Bartz. 3,027,352.

Brown, Frank E. Safety switch. 3,022,406, 2–20–62, Cl. 200—161.

Brown, Frank E., to Barnes-Hind International, Inc. Contact lens case. 3,070,105, 12–25–62, Cl. 134—156.

Brown, Frank H.: *See*—
St. Denny, Ralph B., and Brown. 3,059,920.

Brown, Frank J. Bath sponge. 3,063,081, 11–13–62, Cl. 15—222.

Brown, Franklin R., and J. H. Atkins, to The Oversewing Machine Co. of America, Inc. Device for applying adhesive. 3,030,916, 4–24–62, Cl. 118—252.

Brown, Fred, to United States of America, Navy. Cluster opening method. 3,061,011, 9–9–62, Cl. 102—7.2.

Brown, Fred L., to Acme Steel Co. Method of forming a composite tubular object. 3,041,717, 7–3–62, Cl. 29—446.

Brown, Geoffrey G.: *See*—
Bradley, John K., Brown, and Sheldrick. 3,049,417.

Brown, Geoffrey G., and R. G. Wilson, to Fisons Fertilizers Ltd. Production of phosphate fertilizers. 3,049,416, 8–14–62, Cl. 71—37.

Brown, Geoffrey G., and R. G. Wilson, to Fisons Fertilizers Ltd. Fertilizers. 3,049,418, 8–14–62, Cl. 71—39.

Brown, George J.: *See*—
Zuehlke, Arthur A., and Brown. 3,032,732.

Brown, George J., to Statham Instruments, Inc. Differential pressure transducer. 3,058,350, 10–16–62, Cl. 73—407.

Brown, George J., to Statham Instruments, Inc. Force applying and measuring devices. 3,065,625, 11–27–62, Cl. 73—4.

Brown, George L., R. E. Harren, B. B. Kline, and E. L. Wormser, to Rohm & Haas Co. Aqueous coating composition comprising copolymer, aminoplast and tertiary amine and process of coating substrates therewith. 3,033,811, 5–8–62, Cl. 260—29.4.

Brown, George T. Fluid pressure operated devices. 3,034,357, 5–15–62, Cl. 73—407.

Brown, George W. Earth moving machine. 3,050,879, 8–28–62, Cl. 37—8.

Brown, George W., and G. S. Harben, Jr., to Gainesville Machine Co., Inc. Automatic sorting machine. 3,017,027, 1–16–62, Cl. 209—121.

Brown, Glenn L.: *See*—
Lehan, Frank W., and Brown. 3,063,048.

Brown, Glenn S., to Phillips Petroleum Co. Flange aligning tool. 3,015,883, 1–9–62, Cl. 29—271.

Brown, Gordon E., C. R. Cox, and G. A. Kennar, to Monsanto Chemical Co. Condensation products of phenol, polycyclic phenols and formaldehyde. 3,058,954, 10–16–62, Cl. 260—51.

Brown Grease Gun Co., Inc.: *See*—
Brown, William Y. 3,043,224.

Brown, Harold Co.: *See*—
Roach, Erskine E. 3,026,903.
Roach, Erskine E. 3,031,971.
Roach, Erskine E., and Baker. 3,020,852.
Wright, Charles B., Jr., and Lilly. 3,053,323.
Brown, Harold J.: *See*—
Weber, Harold, Brown, and Blake. 3,039,712.
Brown, Harold J. Regulated power supply system. 3,037,-159, 5–29–62, Cl. 321—18.
Brown, Harry W., to Gilbert & Nash Co. Guide for a traveling vertical web. 3,051,363, 8–28–62, Cl. 226—23.
Brown, Harry W., to Cutler-Hammer, Inc. Electric switches. 3,051,803, 8–28–62, Cl. 200—67.
Brown, Harry W., Sr.: *See*—
Hradek, Edward J., and Brown. 3,041,641.
Brown, Henry, to the Udylite Research Corp. Composite electroplate. 3,047,939, 8–7–62, Cl. 29—183.5.
Brown, Henry A., to Waterman-Bic Pen Corp. Reservoir writing instruments. 3,066,652, 12–4–62, Cl. 120—45.4.
Brown, Herbert C. Process for the preparation of organo boron compounds. 3,026,356, 3–20–62, Cl. 260—606.5.
Brown, Herbert C., to Ethyl Corp. Diesel fuel compositions. 3,035,904, 5–22–62, Cl. 44—57.
Brown, Herbert C., B. C. S. Rao, and P. A. Tierney, to Purdue Research Foundation. Mono- and di-chloroborane etherates. 3,026,329, 3–20–62, Cl. 260—345.1.
Brown, Hugh D.: *See*—
Brown, Lawrence W., H. D. and P. E. 3,068,792.
Brown, Herbert R., Jr., and G. P. Saros. Table corner guard. 3,041,775, 7–3–62, Cl. 45—68.4.
Brown, Horace D.: *See*—
Matzuk, Alexander R., Brown, and Sarett. 3,067,097.
Sarett, Lewis H., and Brown. 3,017,415.
Brown, Horace D., to Merck & Co., Inc. Preparation of 16-oxo-isomorphinan. 3,068,234, 12–11–62, Cl. 260—285.
Brown, Horace D., and L. H. Sarett, to Merck & Co., Inc. Acyl benzimidazoles and method of preparing same. 3,055,-907, 9–25–62, Cl. 260—302.
Brown, Howard E., to United States of America, Navy. Air bled fuel injector system. 3,029,603, 4–17–62, Cl. 60—39.74.
Brown, Hubert K.: *See*—
Morgan, John M., Jr., Brown, and Rave. 3,019,377.
Brown, Hugh M., to Clemson Agricultural College of South Carolina. Yarn testing device. 3,018,659, 1–30–62, Cl. 73—95.5.
Brown-Hutchinson Iron Works: *See*—
Engle, Darrell G. 3,064,611.
Brown, Irene H. Differential hair curler. 3,050,069, 8–21–62, Cl. 132—39.
Brown, J. Allen: *See*—
Newell, Flora E. 3,021,837.
Brown, J. H. P.: *See*—
Miller, Henry W. 3,015,886.
Brown, J. Herbert: *See*—
Fletcher, Taylor C., Brown, Chapin, and Preston. 3,068,450.
Brown, J. Herbert, to Beckman Instruments, Inc. Magnetic core amplifying circuit. 3,039,008, 6–12–62, Cl. 307—88.
Brown, J. Herbert, to Beckman Instruments, Inc. D.C. to A.C. converter. 3,051,914, 8–28–62, Cl. 331—113.
Brown, Jack C., to General Motors Corp. Universal machining spindle head. 3,069,931, 12–25–62, Cl. 77—34.7.
Brown, Jack E., to Halliburton Co. Jet perforating gun. 3,057,297, 10–9–62, Cl. 102—21.8.
Brown, Jack G. Method and apparatus for the manufacture of phonograph records. 3,052,586, 9–4–62, Cl. 156—209.
Brown, Jack W., to McGraw-Edison Co. Speed shift control for phonographs. 3,018,110, 1–23–62, Cl. 274—9.
Brown, Jack W., and H. E. Crocker, to McGraw-Edison Co. Warning control system for dictating machines. 3,061,-688, 10–30–62, Cl. 179—100.1.
Brown, James A. Bowling pin duster. 3,034,787, 5–15–62, Cl. 273—54.
Brown, James A., to Thermal Dynamics Corp. Electric arc torch. 3,047,709, 7–31–62, Cl. 219—75.
Brown, James D.: *See*—
Hendrickson, Donald E., Brown, Schwartz, and Utz. 3,031,713.
Schwartz, Daniel M., Hendrickson, and Brown. 3,040,918.
Brown, James D. Tube spinning machine. 3,050,023, 8–21–62, Cl. 113—52.
Brown, James D., to The Eimco Corp. Air motor assembly. 3,058,451, 10–16–62, Cl. 121—121.
Brown, James D., and L. Hanson, to The Eimco Corp. Manual motor control device. 3,019,378, 1–30–62, Cl. 318—65.
Brown, James D., and K. H. Hoen, to The Eimco Corp. Pressure fluid power system and control means therefor. 3,025,-673, 3–20–62, Cl. 60—53.
Brown, James E., 37½ % to S. H. Ferrell and 37½ % to F. N. Bailey. Measuring gauge. 3,015,166, 1–2–62, Cl. 33—148.
Brown, James E., 37½ % to S. H. Ferrell and 37½ % to F. N. Bailey. Clamp for body jack. 3,015,353, 1–2–62, Cl. 153—32.
Brown, James O.: *See*—
Henderson, Knox B., and Brown. 3,040,572.
Brown, James O., to National Tank Co. Allowable counter. 3,065,880, 11–27–62, Cl. 222—17.
Brown, James T., Jr.: *See*—
Littleton, William S., and Brown. 3,052,054.
Brown, Jennie M., and B. S. Lowery; said Lowery assor. to said Brown. Decorative doll garment. 3,059,377, 10–23–62, Cl. 46—241.
Brown, Jerome E.: *See*—
Shapiro, Hymin, De Witt, and Brown. 3,030,398.
Brown, Jerome E., E. G. De Witt, and H. Shapiro, to Ethyl Corp. Fuel and antiknock compositions. 3,041,155, 6–26–62, Cl. 44—69.
Brown, Jerome E., E. G. Dewitt, and H. Shapiro, to Ethyl Corp. Dicyclomatic manganese coordinated with tridentate ether. 3,060,212, 10–23–62, Cl. 260—429.
Brown, Jess, to C. E. Rhinevault. Attachment for a power stapler. 3,041,620, 7–3–62, Cl. 1—187.
Brown, Joe B., and R. E. Place, to Planet Corp. Automatic handling mechanism. 3,051,328, 8–28–62, Cl. 214—1.
Brown, John A., to Esso Research and Engineering Co. Catalysis of phosphosulfurization reactions. 3,020,270, 2–6–62, Cl. 260—139.
Brown, John D.: *See*—
Walker, Percy G., and Brown. 3,035,730.
Brown, John E., and H. A. Osterberg, to United States Steel Corp. Die holder for die conditioning machine. 3,058,270, 10–16–62, Cl. 51—237.
Brown, John F., Jr., and L. H. Vogt, Jr., to General Electric Co. Benzene soluble phenyl silsesquioxanes. 3,017,386, 1–16–62, Cl. 260—46.5.
Brown, John W.: *See*—
Tint, Howard, and Brown. 3,035,980.
Brown, John M.: *See*—
Rogers, Joe Y., Jr., and Brown. 3,039,853.
Brown, John O., and L. F. Stava. Vehicle wheel tire chain assembly. 3,025,900, 3–20–62, Cl. 152—213.
Brown, John T. L., to Bell Telephone Laboratories, Inc. Wet rest for inking stylus. 3,039,438, 6–19–62, Cl. 120—57.
Brown, John W., Jr., to Brown Fintube Co. Heater. 3,016,-893, 1–16–62, Cl. 126—116.
Brown, John W., Jr., to Brown Fintube Co. Heat exchanger. 3,028,855, 4–10–62, Cl. 126—116.
Brown, Joseph A., to Ethyl Corp. Welding jig. 3,069,153, 12–18–62, Cl. 269—58.
Brown, Joseph A., Jr. Cargo cart conveying device. 3,029,-745, 4–17–62, Cl. 104—162.
Brown, Joseph D. Convertible table rack. 3,053,396, 9–11–62, Cl. 211—2.
Brown, Joseph L., to International Business Machines Corp. Indirect addressing in an electronic data processing machine. 3,036,773, 5–29–62, Cl. 235—157.
Brown, Joseph L., E. C. Layden, J. M. Taylor, and D. H. Weiss, to International Business Machines Corp. Normalizing apparatus for floating point operations. 3,043,509, 7–10–62, Cl. 235—156.
Brown, Joseph L., J. M. Taylor, and P. N. Stoughton, to International Business Machines Corp. Fast multiply apparatus in an electronic digital computer. 3,048,333, 8–7–62, Cl. 235—164.
Brown, Joseph P.: *See*—
Seiler, David A. L., and Brown. 3,046,190.
Brown, Joseph P., and E. B. McCall, to Monsanto Chemicals Ltd. Preparation of substituted dithiobiurets. 3,045,046, 7–17–62, Cl. 260—552.
Brown, Joseph R., Jr., to Burroughs Corp. Bipolar current steering switch. 3,047,730, 7–31–62, Cl. 307—88.
Brown, Joseph R., Jr., and D. H. Hartke, to Burroughs Corp. Magnetic tape timing system. 3,070,800, 12–25–62, Cl. 346—74.
Brown, Judson G. Filter frame and filter press. 3,018,894, 1–30–62, Cl. 210—231.
Brown, Judson G. Filtering processes and apparatus for use in connection therewith. 3,019,184, 1–30–62, Cl. 210—82.
Brown, Kenneth M., to Universal Oil Products Co. Treating waste water. 3,029,202, 4–10–62, Cl. 210—63.
Brown, Kenneth M., W. K. T. Gleim, and P. Urban, to Universal Oil Products Co. Water treatment. 3,029,201, 4–10–62, Cl. 210—59.
Brown, Kenneth N.: *See*—
Solomon, Frank, and Brown. 3,055,964.
Solomon, Frank, Brown, and Di Pasquale 3,069,486.
Brown, Kenneth N., to Yardney International Corp. Method of manufacturing soluble silver salts. 3,048,469, 8–7–62, Cl. 23—51.
Brown, Kenneth R., to Ferranti Ltd. Torque motors having a restricted range of angular movement. 3,047,750, 7–31–62, Cl. 310—38.
Brown, Kenneth R., and C. Gray, to Ferranti, Ltd. Electromagnetic pick-off devices. 3,024,409, 3–6–62, Cl. 323—75.
Brown, Lake D., Jr., to Pacific Semiconductors, Inc. Transistor cooler. 3,033,537, 5–8–62, Cl. 257—263.
Brown, Lake D., Jr., to International Rectifier Corp. Method of making a rectifier. 3,047,437, 7–31–62, Cl. 148—1.5.
Brown, Lawrence B., W. R. Jones, and E. W. Seeley, to United States of America, Navy. Ionized-gas beam-shifting tschebyscheff array antenna. 3,015,822, 1–2–62, Cl. 343—771.
Brown, Lawrence S.: *See*—
Crowther, George A., Brown, and Hampton. 3,064,884.
Brown, Lawrence W., deceased (H. D. Brown, administrator), and H. D. and P. E. Brown, ⅓ to said H. D. and P. E. Brown. M. Walker, and H. Long. Rocket-like aerial toy. 3,068,792, 12–18–62, Cl. 102—34.1.
Brown, Lemual G. Necktie stretcher. 3,032,241, 5–1–62, Cl. 223—65.

Brown, Lemual G. Solar operated louver apparatus. 3,064,-131, 11–13–62, Cl. 250—203.

Brown, Leonard, A. Barradell, and N. C. Ladbrooke, to William Cotton, Ltd. Straight bar knitting machines. 3,058,325, 10–16–62, Cl. 66—88.

Brown, Lewis R. Hydrocarbon prospecting. 3,033,761, 5–8–62, Cl. 195—103.5.

Brown, Lloyd H., to Aerojet-General Corp. Polynitro urethanes. 3,020,261, 2–6–62, Cl. 260—47.

Brown, Lloyd H., to The Quaker Oats Co. Furfuryl alcohol based impregnating solution. 3,070,551, 12–25–62, Cl. 260—2.

Brown, Lloyd H., and J. W. Hill, to The Quaker Oats Co. Process of forming a shell mold from a water, furfuryl alcohol, sand and catalyst composition. 3,020,609, 2–13–62, Cl. 22—193.

Brown, Louise H., and R. Swidler, to Tallow Research, Inc. Process for isomerization of oleic acid and its derivatives. 3,065,248, 11–20–62, Cl. 260—405.6.

Brown, Lowell N. Method and tools for repairing muffler assemblies. 3,043,002, 7–10–62, Cl. 29—401.

Brown, Lowell N. Tool for repairing muffler assemblies. 3,044,169, 7–17–62, Cl. 30—91.

Brown, Lowell N. Masonry drill. 3,047,082, 7–31–62, Cl. 175—415.

Brown, Lucian H. Reflector oven. 3,067,737, 12–11–62, Cl. 126—274.

Brown, Madeline N.: *See*—
Newell, Flora E. 3,021,837.

Brown Mfg. Co., Inc., The: *See*—
Brown, Walter R. and W. R. Brown, Jr. 3,030,976.

Brown, Michael P.: *See*—
Cina, Raymond C., Long, and Brown. 3,032,590.

Brown, Milton, and J. May. Piece dyeing machine. 3,030,-791, 4–24–62, Cl. 68—177.

Brown, Morden G.: *See*—
Polanyi, Michael L., Johnston, and Brown. 3,049,047.

Brown, Morris E., to Eastman Kodak Co. Automatic exposure controls for photographic cameras. 3,044,384, 7–17–62, Cl. 95—64.

Brown, Morris E., and W. A. Martin, to Eastman Kodak Co. Telescopic finder for motion picture cameras. 3,043,181, 7–10–62, Cl. 88—1.5.

Brown, Morton, to E. I. du Pont de Nemours and Co. Substituted 2-methylene-4, 5-dicyano-1, 3-dithiolen compounds. 3,057,875, 10–9–62, Cl. 260—327.

Brown, Myron J., to Westinghouse Electric Corp. Automatic demand control computer. 3,048,705, 8–7–62, Cl. 307—35.

Brown, Ned C. L., and G. Vande Sande, to General Railway Signal Co. Detection means for improperly lubricated journals. 3,016,457, 1–9–62, Cl. 246—169.

Brown, Noel E.: *See*—
Wilbur, Irvin M., and Brown. 3,026,469.

Brown, Noel J. Prosthetic hands. 3,026,534, 3–27–62, Cl. 3—12.7.

Brown, Norland C.: *See*—
Anderson, Carl H., and Brown. 3,035,722.

Brown, Norman C., J. E. N. Sloan, and P. A. Kingsbury, to William Cooper & Nephews, Inc. Anthelmintic compositions and method of use. 3,043,744, 7–10–62, Cl. 167—53.

Brown, Norman F.: *See*—
Peters, Clifford M., Dinning, and Brown. 3,045,750.

Brown, Norman F., C. M. Peters, and R. W. Dinning, to U.S. Industries, Inc. Control systems and controller therefor. 3,039,594, 6–19–62, Cl. 103—52.

Brown Oil Tools, Inc.: *See*—
Brown, Cicero C. 3,050,128.
Brown, Cicero C. 3,062,291.

Brown, Orby S. Apparatus for dispensing predetermined quantities of granular material. 3,066,835, 12–4–62, Cl. 222—308.

Brown, Orpha H.: *See*—
Baker, William E. 3,057,113.

Brown, Palmer A., G. W. Kottong, H. F. Kraemer, and A. F. Limper, to Ethyl Corp. Manufacture of trimethyl phosphate. 3,053,875, 9–11–62, Cl. 260—461.

Brown, Paul E.: *See*—
Brown, Lawrence W., H. D. and P. E. 3,068,792.

Brown, Paul L.: *See*—
La Costa, Nicholas J., and Brown. 3,051,086.

Brown, Paul L., and J. F. Hyde, to Dow Corning Corp. Catalytic preparation of chlorosiloxanes. 3,065,252, 11–20–62, Cl. 260—448.2.

Brown, Paul M.: *See*—
Davis, Donovan C., and Brown. 3,021,523.

Brown, Ralph H., Jr., and M. R. Flamand, to Draper Corp. Filling carrier for shuttleless looms. 3,034,539, 5–15–62, Cl. 139—122.

Brown, Ralph J., to General Electric Co. Pulse delayer using shock-excited L-C resonant circuit having sinusoidal output effecting threshold triggering of neon bulb. 3,065,425, 11–20–62, Cl. 328—55.

Brown, Ray: *See*—
Landmann, Wendell A., and Batzer. 3,047,399.

Brown, Ray S., and J. J. Briscoe, to Fastener Corp. Slug stripper mechanism. 3,060,777, 10–30–62, Cl. 83—167.

Brown, Raymond R., and D. D. Goff, to R. R. Brown. Trailer hitch safety device. 3,047,839, 7–31–62, Cl. 340—52.

Brown, Raymond W., and M. M. Lane. Valve stem lock. 3,064,705, 11–20–62, Cl. 152—427.

Brown, Raymond W., to Western Electric Co., Inc. Method of and apparatus for distributing an article to one of several receiving locations. 3,016,142, 1–9–62, Cl. 209—74.

Brown, Reams F.: *See*—
Cunningham, Fred A., Klatt, Brown, and Slovacek. 3,019,746.
Cunningham, Fred A., Klatt, Brown, and Slovacek. 3,020,162.

Brown, Reeves, to Hardwick Stove Co. Cooking unit. 3,044,-459, 7–17–62, Cl. 126—39.

Brown, Rene P.: *See*—
Dyer, Robert H., and Brown. 3,047,534.

Brown, Rex: *See*—
Ansell, Sidney C., Booth, Brown, Franklin, and Rayward. 3,056,916.

Brown, Richard E.: *See*—
Pietrusza, Edward W., Brown, and Mueller. 3,050,544.

Brown, Richard P., to International Business Machines Corp. Bi-stable switching circuit with pulse overlap discrimination. 3,046,485, 7–24–62, Cl. 328—195.

Brown, Richard W., to Minneapolis-Honeywell Regulator Co. Remote indicating control circuit. 3,026,448, 3–20–62, Cl. 315—135.

Brown, Richard W., to Minneapolis-Honeywell Regulator Co. Supervised signal system. 3,060,416, 10–23–62, Cl. 340—213.

Brown, Robert: *See*—
Wade, Roger, Nemesnyik, and Brown. 3,028,790.

Brown, Robert A.: *See*—
Salter, Douglas R., and Brown. 3,063,118.

Brown, Robert A., to United States of America, Army. Ammunition. 3,049,998, 8–21–62, Cl. 102—38.

Brown, Robert B., K. G. Brady, and V. M. Sanders, to Boeing Airplane Co. Vertical take-off and landing aircraft. 3,033,490, 5–8–62, Cl. 244—12.

Brown, Robert C., to E. L. Bruce Co. (Inc.). Method and apparatus applying a liquid to panels. 3,050,415, 8–21–62, Cl. 117—102.

Brown, Robert C., to E. L. Bruce Co. Method of waxing a wood panel. 3,061,457, 10–30–62, Cl. 117—57.

Brown, Robert C., H. S. De Groot, and C. J. Stalmuke, to Oxford Paper Co. Coating of webs and the like. 3,030,-917, 4–24–62, Cl. 118—413.

Brown, Robert E., to City Tank Corp. Disposal mechanism and canister construction therefor. 3,027,028, 3–27–62, Cl. 214—302.

Brown, Robert E., to Goochland Nurseries, Inc. Plant packaging carton. 3,035,751, 5–22–62, Cl. 229—39.

Brown, Robert G., to Rabinow Engineering Co., Inc. Combined vacuum pick up and printer. 3,017,829, 1–23–62, Cl. 101—327.

Brown, Robert G., to Eaton Mfg. Co. Tappet wrench. 3,025,-732, 3–20–62, Cl. 81—15.

Brown, Robert H., to Wm. Cory & Son Ltd. Marine tankers. 3,021,809, 2–20–62, Cl. 114—74.

Brown, Robert H. Vehicle wheel assembly. 3,032,133, 5–1–62, Cl. 180—21.

Brown, Robert H., to Wm. Cory & Son Ltd. Marine tankers. 3,040,706, 6–26–62, Cl. 114—74.

Brown, Robert J., to International Business Machines Corp. Process of preparing magnetic ink. 3,042,616, 7–3–62, Cl. 252—62.5.

Brown, Robert J. S.: *See*—
Jones, Stanley B., and Brown. 3,044,010.

Brown, Robert J. S., to California Research Corp. Method of and apparatus for reducing remnant magnetic fields in nuclear magnetism well logging. 3,042,855, 7–3–62, Cl. 324—.5.

Brown, Robert J. S., to California Research Corp. Fluid remnant magnetization tester. 3,048,773, 8–7–62, Cl. 324—.5.

Brown, Robert L.: *See*—
Elms, Edwin F., and Saunders. 3,015,866.
Brown, Willa H. 3,045,675.
Peckham, Roy E. 3,019,499.
Whyte, George. 3,032,845.

Brown, Robert L. Deformable plastic fastener. 3,019,498, 2–6–62, Cl. 24—73.

Brown, Robert L., to Bell Aerospace Corp. Circular welding device. 3,029,333, 4–10–62, Cl. 219—82.

Brown, Robert M. Indicating device for meat treatment. 3,052,876, 9–4–62, Cl. 340—227.

Brown, Robert P. Bird nesting and sheltering device. 3,017,858, 1–23–62, Cl. 119—23.

Brown, Robert P., to Poloron Products, Inc. Insulated container. 3,070,253, 12–25–62, Cl. 220—9.

Brown, Robert R.: *See*—
Miller, Verle A., Brown, and Gienger. 3,067,180.

Brown, Robert S. Tubing clamp. 3,040,407, 6–26–62, Cl. 24—277.

Brown, Robert S. Tubing clamp. 3,055,072, 9–25–62, Cl. 24—277.

Brown, Robert S., and R. Yll, to Burroughs Corp. Pulse train gap detector circuitry. 3,068,367, 12–11–62, Cl. 307—88.5.

Brown, Robinson W., to Weatherford Oil Tool Co., Inc. Stop collar. 3,028,182, 4–3–62, Cl. 287—52.

Brown, Robinson W., to Bowen-Itco, Inc. Hydraulically operable percussion jar. 3,038,548, 6–12–62, Cl. 175—296.

Brown, Robinson W., to Reynolds Metals Co. Jettisonable ballast safety device. 3,063,395, 11–13–62, Cl. 114—16.4.

Brown, Robinson W., and W. E. Oakey. Volumetric drum meter. 3,056,294, 10–2–62, Cl. 73—200.

Brown, Roger M. Christmas tree holder. 3,033,505, 5–8–62, Cl. 248—44.
Brown, Roger W., to Cone Automatic Machine Co., Inc. Cutting tool feed mechanism. 3,064,501, 11–20–62, Cl. 77—32.3.
Brown, Rollen E.: *See*—
Cousino, Elwin F., and Brown. 3,022,712.
Brown, Ronald W., to Midland-Ross Corp. Air conditioning system. 3,064,952. 11–20–62, Cl. 261—3.
Brown & Root, Inc.: *See*—
Turrentine, Rudolph A. 3,022,763.
Brown, Roy W., and J. L. Hollis, to The Firestone Tire & Rubber Co. Automobile suspension. 3,038,716, 6–12–62, Cl. 267—65.
Brown, Russell A., to General Electric Co. Protective electrical systems. 3,062,990, 11–6–62, Cl. 317—23.
Brown, Russell H.: *See*—
Hamer, Martin, Kawahara, and Brown. 3,037,492.
Kawahara, Fred K., Brown, and Tracy. 3,065,742.
Brown, Russell J., and J. Downing, to British Celanese Ltd. Manufacture of artificial filamentary materials. 3,066,007, 11–27–62, Cl. 18—54.
Brown & Sharpe Mfg. Co.: *See*—
Charlat, Arnold S. 3,023,677.
Levesque, George N. 3,039,026.
Twamley, William E., and Carroll. 3,043,173.
Brown, Sidney C., to Aacquate Weighers Ltd. Intermittent weighing and weight indicating apparatus. 3,065,809, 11–27–62, Cl. 177—156.
Brown, Solomon: *See*—
Davyso, Samuel. 3,023,433.
Brown, Stanley R., to General Electric Co. Amplitude coincidence circuit. 3,047,812, 7–31–62, Cl. 328—147.
Brown Steel Tank Co.: *See*—
Brown, Walter V. 3,065,328.
Brown, Stephen A., and W. J. Brown. All-purpose functional table. 3,033,627, 5–8–62, Cl. 311—29.
Brown, Stephen S., to Jersey Production Research Co. Polarized light actuated remote control system for wells. 3,027,-945, 4–3–62, Cl. 166—75.
Brown, Thomas B., to Eastman Kodak Co. Apparatus for making color prints. 3,062,096, 11–6–62, Cl. 88—24.
Brown, Thomas F., and P. Mathews, to Universal Oil Products Co. Detergent-containing lubricating oil. 3,050,464, 8–21–62, Cl. 252—33.
Brown, Thomas G., A. B. C. Rankin, and R. W. G. Haslett. Apparatus for ultrasonic testing of materials. 3,041,872, 7–3–62, Cl. 73—67.9.
Brown, Thomas J. A., F. Spencer, and G. Grady, to Henry Simon Ltd. Vibrating spreader feeders for granular or particulate materials. 3,028,053, 4–3–62, Cl. 222—161.
Brown, Thomas L.: *See*—
Hathorn, Don H., and Brown. 3,039,535.
Brown, Thomas T., to Whitehall-Rand, Inc. Electrokinetic transducer. 3,018,394, 1–23–62, Cl. 310—5.
Brown, Thomas T., to Whitehall-Rand, Inc. Electrokinetic generator. 3,022,430, 2–20–62, Cl. 310—5.
Brown, Va T. Means for determining defects in furnace walls. 3,024,657, 3–13–62, Cl. 73—343.
Brown, Vincent B.: *See*—
Schweitzer, Erich, and Brown. 3,040,291.
Brown, W. A., Mfg. Co.: *See*—
Blatherwick, Delbert T. 3,052,156.
Brown, Walter J., to Aerotec Industries, Inc. Electric control circuit. 3,040.496, 6–26–62, Cl. 55—105.
Brown, Walter J., to Vectrol Engineering Inc. Thermal regulating system. 3,062,999, 11–6–62, Cl. 320—35.
Brown, Walter R. Ice cream machine. 3,040,540, 6–26–62, Cl. 62—132.
Brown, Walter R. and W. R. Brown, Jr., to The Brown Mfg. Co., Inc. Feed valve for ice cream machine. 3,030,-976, 4–24–62, Cl. 137—270.
Brown, Walter R., Jr.: *See*—
Brown, Walter R. and W. R. Brown, Jr. 3,030,976.
Brown, Walter V., to Brown Steel Tank Co. Sheet forming and seaming machine. 3,065,328, 11–20–62, Cl. 219—60.
Brown, Wesley H. Digger for trees and shrubs. 3,032,123, 5–1–62, Cl. 172—448.
Brown, Wilburn K.: *See*—
Albert, William E., and Brown. 3,024,933.
Brown, Wilburt J. Brush supporting attachment for paint pails. 3,019,939, 2–6–62, Cl. 220—90.
Brown, Willa H., 50% to R. L. Brown. Reversible diaper having length adjusting means. 3,045,675, 7–24–62, Cl. 128—284.
Brown, Willard D., Jr.: *See*—
Burmeister, Albert J., and Brown. 3,056,360.
Burmeister, Albert J., Brown, and Heidinger. 3,048,123.
Brown, Willard D., Jr., to Richards-Wilcox Mfg. Co. Trolley transfer means. 3,045,609, 7–24–62, Cl. 104—88.
Brown, William D. Chain and cutters therefor. 3,022,588, 2–27–62, Cl. 37—191.
Brown, William D. Trenching machine cutter mechanism. 3,050,881, 8–28–62, Cl. 37—86.
Brown, William D., and T. W. Waller, to El Dorado Poultry By-Products Co. Method of and apparatus for handling raw materials in production of hydrolyzed feather meal and other poultry by-product meal. Re. 25,138, 3–13–62, Cl. 99—7.
Brown, William E., to The Western Co. of North America. Treatment of earth formations. 3,032,499, 5–1–62, Cl. 252—8.55.
Brown, William E. Tire grooving machine. 3,044,536, 7–17–62, Cl. 157—13.
Brown, William E. Tramper for cotton presses. 3,068,783, 12–18–62, Cl. 100—76.
Brown, William H., to United Aircraft Corp. Exhaust nozzle burning supersonic ramjet. 3,034,294, 5–15–62, Cl. 60—35.6.
Brown, William J.: *See*—
Brown, Stephen J. and W. J. 3,033,627
Brown, William L., to Boyne Products, Inc. Cancelling cam for turn signals or the like. 3,065,650, 11–27–62, Cl. 74—567.
Brown, William Y., to Brown Grease Gun Co., Inc. Self-contained service pump assembly. 3,043,224, 7–10–62, Cl. 103—23.
Brown, Wilmot E., Jr. Golf ball washing devices. 3,066,335, 12–4–62, Cl. 15—21.
Brown, Winston E., to The Dow Chemical Co. Stabilized degreasing solvent. 3,049,571, 8–14–62, Cl. 260—652.5.
Brown, Winston E., and M. W. Mabry, to Phillips Petroleum Co. High impulse propellants. 3,018,202, 1–23–62, Cl. 149—19.
Brown, Woodbridge P. Catamarans. 3,016,861, 1–16–62, Cl. 114—61.
Brownback, Henry L. Swinging axle suspension system for vehicle drive axles. 3,068,951, 12–18–62, Cl. 180—73.
Browne, Anthony A. B., and J. Mather, to Imperial Chemical Industries Ltd. Process for the manufacture of linear polyesters and copolyesters containing phosphinate structural components. 3,036,044, 5–22–62, Cl. 260—75.
Browne, Charles M., to Libbey-Owens-Ford Glass Co. Glass frit material. 3,046,433, 7–24–62, Cl. 313—108.
Browne, Charles M., to Libbey-Owens-Ford Glass Co. Ultrathin films. 3,056,696, 10–2–62, Cl. 117—211.
Browne, Francis P., to ACF Industries, Inc. Multiple display plotting system. 3,026,633, 3–27–62, Cl. 35—12.
Browne, Godfrey H.: *See*—
Tager, Milton E., Browne, and McCoig. 3,044,145.
Browne, Lindsay H., to Scott & Williams, Inc. Pumps. 3,048,114, 8–7–62, Cl. 103—44.
Brown-Grant, Robert. Paneled table top. 3,049,388, 8–14–62, Cl. 311—106.
Browne, Robert J., to Eaton Mfg. Co. Rotary pump. 3,025,-802, 3–20–62, Cl. 103—135.
Browne, Robert T. Anti-glare device for windows and windshields. 3,026,626, 10–2–62, Cl. 296—97.
Brownell, Carl A., Jr. Method of constructing swimming pools. Re. 25,199, 7–17–62, Cl. 25—155.
Brownell, Lamond K.: *See*—
Hewes, Ellsworth D., and Brownell. 3,057,122.
Browner, William J., to Relaxacizor, Inc. Device for electrical contraction of bodily tissues. 3,015,333, 1–2–62, Cl. 128—424.
Browner, William J., to Relaxacizor, Inc. Device for electrotherapy. 3,025,857, 3–20–62, Cl. 128—376.
Browner, William J., to Relaxacizor, Inc. Ambulatory electrical muscle stimulating device. 3,025,858, 3–20–62, Cl. 128—420.
Browner, William J., to Relaxacizor, Inc. Device for electrical treatment of bodily tissues. 3,055,372, 9–25–62, Cl. 128—421.
Brownfield, Robert. Electrical circuit board. 3,038,105, 6–5–62, Cl. 317—101.
Browning, Charles W. Lifting device. 3,016,988, 1–16–62, Cl. 187—17.
Browning, Clarence E. Pelt fleshing machine. 3,048,995, 8–14–62, Cl. 69—43.
Browning, Frank E. Mixing impellers. 3,053,518, 9–11–62, Cl. 259—134.
Browning, Harold. Demountable side slide coupling. 3,053,-553, 9–11–62, Cl. 825—31.
Browning, Harrison. Shock overload indicator. 3,020,875, 2–13–62, Cl. 116—114.
Browning, Harrison, W. C. Patterson, and I. S. Livney. Breather valves. 3,020,926, 2–13–62, Cl. 137—495.
Browning Industries, Inc.: *See*—
Browning, Val A. 3,018,694.
Lewis, Karl R. 3,061,965.
Browning, James A., to Thermal Dynamics Corp. Arc torch. 3,027,446, 3–27–62, Cl. 219—75.
Browning, James A. High energy atomizer for fire extinguishment. 3,033,292, 5–8–62, Cl. 169—2.
Browning, James A., and K. W. Harrington, to Thermal Dynamics Corp. Electric arc torch. 3,027,447, 3–27–62, Cl. 219—75.
Browning, James A., and K. W. Harrington, to Thermal Dynamics Corp. Electric arc torches. 3,061,710, 10–30–62, Cl. 219—75.
Browning, James E., A. L. Anderson, and D. H. Youngblood, to Southern Steel Co. Indicating mechanism for cell door and locks. 3,053,352, 9–11–62, Cl. 189—8.
Browning, James S., and B. H. Clemmons, to United States of America, Interior. Separation of spodumene and beryl by flotation. 3,028,008, 4–3–62, Cl. 209—167.
Browning Mfg. Co.: *See*—
Keepers, Harry R. 3,043,151.
Browning, Marion T. Animal holding and loading chute. 3,020,882, 2–13–62, Cl. 119—82.
Browning, Randolph M.: *See*—
Harding, Francis, and Browning. 3,025,013.
Browning, Roe V. Ratchet mechanism. 3,061,061, 10–30–62, Cl. 192—43.2.

Browning, Val A., to Browning Industries, Inc. Recoil absorbing mechanism for firearms. 3,018,694, 1–30–62, Cl. 89—159.
Browning, Wayne F., Jr.: *See*—
Pendergrast, John B., Jr., and Browning. 3,045,831.
Browning, William C., to Milwhite Mud Sales Co. Method of controlling the extra pressure lubrication of drilling muds. 3,047,494, 7–31–62, Cl. 252—8.5.
Brownlee, Kenneth H., to The Meyercord Co. Carton opening machine and method. 3,068,622, 12–18–62, Cl. 53—50.
Brown-Line Corp.: *See*—
Schwartz, Albert M. 3,042,245.
Brownlow, James M., to International Business Machines Corp. Preparation of a bistable ferrite circuit element. 3,042,618, 7–3–62, Cl. 252—62.5.
Brownlow, James M., and B. R. Eichbaum, to International Business Machines Corp. Method of preparing ferrite cores. 3,028,337, 4–3–62, Cl. 252—62.5.
Brownlow, James M., and E. C. Schuenzel, to International Business Machines Corp. Ferrite composition for bistable magnetic circuits. 3,042,619, 7–3–62, Cl. 252—62.5.
Brownold, Charles: *See*—
Brooks, Charles Sutton, and Brownold. 3,045,742.
Brownsey, Horace P., to Addressograph-Multigraph Corp. Feeding mechanisms. 3,019,017, 1–30–62, Cl. 271—44.
Brownstein, Benjamin. Garment construction. 3,047,878, 8–7–62, Cl. 2—97.
Brownstein, Raymond G. Rotary cut-off machines. 3,024,687, 3–13–62, Cl. 82—59.
Brox, Raymond L., and F. A. Vinal. Hydraulic shock absorber tow bar structure. 3,053,199, 9–11–62, Cl. 104—173.
Broxholm, Russell A.: *See*—
Kuhrt, Noel H., and Broxholm. 3,034,897.
Kuhrt, Noel H., and Broxholm, 3,034,898.
Broyles, Horace N. Bed construction. 3,049,729, 8–21–62, Cl. 5—200.
Broyles, Horace N., to Dream Flex, Inc. Convertible couch. 3,060,460, 10–30–62, Cl. 5—18.
Broyles, Ward E. Longitudinal bed extension. 3,064,278, 11–20–62, Cl. 5—184.
Brozdowicz, Zygmunt, to Radio Corp. of America. Die cleaning means. 3,059,305, 10–23–62, Cl. 25—103.
Brubaker, John W., to Telecomputing Corp. Flight control system. 3,053,483, 9–11–62, Cl. 244—77.
Brubaker, Paul T., to Meyer-Both Corp. Servo system. 3,061,782, 10–30–62, Cl. 324—99.
Bruber, Norman T., to The Firestone Tire & Rubber Co. Tire and method of making same. 3,019,149, 1–30–62, Cl. 156—87.
Bruce, Alastair D., and C. W. Pierce, to The Enfield Cycle Co. Ltd. Device for recording or registering shock. 3,020,874, 2–13–62, Cl. 116—114.
Bruce, Donald M.: *See*—
Hancock, Kenneth G., and Bruce. 3,060,689.
Hancock, Kenneth G., and Bruce. 3,060,967.
Bruce, E. L. Co. (Inc.): *See*—
Brown, Robert C. 3,050,415.
Brown, Robert C. 3,061,457.
Lyons, Frank H. 3,055,802.
Bruce, Eric W., to E. I. du Pont de Nemours and Co. Preparation of fibrous alumina monohydrate and aquasols thereof. 3,031,417, 4–24–62, Cl. 252—313.
Bruce, Francis R., to United States of America, Atomic Energy Commission. Solvent extraction process for separating uranium and plutonium from aqueous acidic solutions of neutron irradiated uranium. 3,046,087, 7–24–62, Cl. 23—14.5.
Bruce, George D., to International Business Machines Corp. Non-cutoff transistor switching circuit. 3,021,432, 2–13–62, Cl. 307—88.5.
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Bruce, George H., to Jersey Production Research Co. Weighted drill collar. 3,047,313, 7–31–62, Cl. 285—47.
Bruce, James W.: *See*—
Wellington, Arthur M. and T. C., and Bruce. 3,057,082.
Bruce, John K. Subterranean structure. 3,038,565, 6–12–62, Cl. 189—1.
Bruce, John K. Process and apparatus for handling objects. 3,039,625, 6–19–62, Cl. 214—6.
Bruce, John K. Selecting and transfer apparatus for conveying articles. 3,044,638, 7–17–62, Cl. 214—11.
Bruce, John K. Apparatus for short term accumulation of conveyed articles. 3,045,803, 7–24–62, Cl. 198—40.
Bruce, John M., Jr.: *See*—
Anderson, Arthur W., Bruce, Merkling, and Truett. 3,050,471.
Bruce, John M., Jr., and I. M. Robinson, to E. I. du Pont de Nemours and Co. Polymerization catalyst and process. 3,042,626, 7–3–62, Cl. 225—429.
Bruce, John P., to The Dow Chemical Co. Hydraulic fluid composition. 3,039,968, 6–19–62, Cl. 252—78.
Bruce Products Corp.: *See*—
Soderberg, Paul W. 3,042,509.
Bruce, William F.: *See*—
Shetty, Bola V., Bruce, and Freed. 3,062,839.
Tislow, Richard F., Bruce, and Page. 3,023,146.
Bruce, Willis N., to L. Ratner. Insect repellent wax composition and method of treating areas therewith. 3,018,217, 1–23–62, Cl. 167—22.
Bruch, Walter, to Telefunken G.m.b.H. Self regulating deflection circuits. 3,049,640, 8–14–62, Cl. 315—27.
Bruch, Walter, H. Reker, and A. Pollak, to Telefunken G.m.b.H. Oscillator synchronizing circuits with plural phase comparison means. 3,032,720, 5–1–62, Cl. 331—11.
Buchhaus, Paul Ch., to H. Hauptner. Ampule syringe, particularly for veterinary use. 3,051,172, 8–28–62, Cl. 128—218.
Bruck, George, to Avco Corp. Wired program distribution system. 3,050,712, 8–21–62, Cl. 340—150.
Bruck, George, L. C. Keene, and R. J. Schipper, to Avco Corp. Refraction correction for radar height finder. 3,069,677, 12–18–62, Cl. 343—5.
Bruck, John P., to American-Lincoln Corp. Bearing seal. 3,042,463, 7–3–62, Cl. 308—187.1.
Bruck, John P., to The American-Lincoln Corp. Portable sander with detachable handle and controls. 3,044,223, 7–17–62, Cl. 51—176.
Brucken, Byron L.: *See*—
Whyte, Ronal H., and Brucken. 3,032,887.
Brucken, Byron L., to General Motors Corp. Domestic appliance. 3,043,015, 7–10–62, Cl. 34—80.
Brucken, Byron L., to General Motors Corp. Electric motor driven domestic appliance. 3,049,654, 8–14–62, Cl. 318—221.
Brucken, Byron L., and G. B. Long, to General Motors Corp. Drain closure. 3,069,697, 12–25–62, Cl. 4—287.
Brucker, C., and H. F. Vellahn. Water powered toothbrush, massager or the like. 3,039,123, 6–19–62, Cl. 15—28.
Brucker, Henry J.: *See*—
Klausmann, Milton H., Brucker, and O'Lenick. 3,025,813.
Brucker, Jacques, and D. Duvergie, to Constructeurs Associes Pour Le Montage D'Ouvrages Metalliques C.A.M.O.M., Societe Anonyme. Lifting apparatus for tank with floating roof. 3,033,411, 5–8–62, Cl. 220—18.
Brucker, James R., to Delavan Mfg. Co. Dual orifice valve. 3,018,792, 1–30–62, Cl. 137—469.
Bruckner, Louis, to Empire Brushes, Inc. Combination sudsing and rinsing devices. 3,039,492, 6–19–62, Cl. 137—625.41.
Brückhäuser, Carl, and G. Lausen, to Norddeutsche Seekabelwerke Aktiengesellschaft. Apparatus for cutting and welding tubular workpieces of thermoplastic material. 3,052,282, 9–4–62, Cl. 156—515.
Brückner, Ernst, to Netzsch, Maschinenfabrik, Gebruder. Apparatus on extrusion worm presses for eliminating the texture in ceramic masses. 3,031,731, 5–1–62, Cl. 25—14.
Brückner, Klaus: *See*—
Bork, Karl-Heinz, Brückner, Mannhardt, and Von Werder. 3,064,015.
Bruder, Arthur R. Conference mixer for telegraph circuits. 3,040,131, 6–19–62, Cl. 178—73.
Bruderlein, Johannes E., and W. H. Rohr, to Beteiligungs- und Patentverwal tungsgellschaft mit beschrankter Haftung. Resonant oscillatory apparatus. 3,035,699, 5–22–62, Cl. 209—339.
Brudney, Harry. Doll mouth. 3,016,651, 1–16–62, Cl. 46—141.
Brudney, Harry, to Dollac Corp. Flexible eye duct for tearing eyes. 3,019,551, 2–6–62, Cl. 46—135.
Bruechenbau Flieder G.m.b.H.: *See*—
Wehner, Albert. 3,023,904.
Bruecker, George B., to G. B. Bruecker. Silo door. 3,063,497, 11–13–62, Cl. 160—352.
Bruecker, George B. Silo unloaders. 3,063,581, 11–13–62, Cl. 214—17.
Bruecker, George B. Method of forming silage discharge chutes. 3,063,585, 11–13–62, Cl. 214—152.
Bruecker, Gerald J., to Badger Northland, Inc. Feed dispensing silo. 3,068,839, 12–18–62, Cl. 119—52.
Bruecker, John. Shear plate and cutter assembly for rotary type dry shaver. 3,019,525, 2–6–62, Cl. 30—43.
Brueckner, Alexander W., to George L. Nankervis, Co. Flowmeter calibrator. 3,034,331, 5–15–62, Cl. 73—3.
Brueckner, Hubert U., E. E. Fluskey, and W. Werbyckyj, to Revere Camera Co. Slide projector. 3,019,701, 2–6–62, Cl. 88—24.
Brueckner, Karl K., to A. O. Smith Corp. Hydraulic decelerating device. 3,052,328, 9–4–62, Cl. 188—96.
Brueder, Antoine, to Andre Citroen Societe Anonyme. Regulator means for driving automotive vehicles equipped with infinitely variable-speed drive. 3,036,426, 5–29–62, Cl. 60—12.
Brueder, Antoine, to Citroen, Andre, Societe Anonyme. Three-way slide valve with adjustable overlap. 3,049,149, 8–14–62, Cl. 137—625.17.
Brueder, Antoine, to Andre Citroen Societe Anonyme. Combustion engine system. 3,062,199, 11–6–62, Cl. 123—65.
Brueder, Antoine, to Andre Citroen Societe Anonyme. Hydraulic distributor. 3,067,775, 12–11–62, Cl. 137—625.25.
Bruehl, Lawrence: *See*—
Leathers, Ward, Di Monico, and Bruehl. 3,015,254.
Bruenner, Rolf S., to United States of America, Army. Method of dissolving finely divided metals. 3,034,893, 5–15–62, Cl. 96—60.
Bruere, Graham M., to Commonwealth Scientific and Industrial Research Organization. Composition comprising Portland cement and a partial calcium salt of a vinyl acetate-maleic anhydride copolymer. 3,037,957, 6–5–62, Cl. 260—41.

Bruestle, Carl O., to Synchro Machine Co. Water cooling apparatus for drawing blocks. 3,017,017, 1–16–62, Cl. 205—20.

Brugge, Walter J.: *See*—
Maul, John A., Brugge, and Anderson. 3,018,725.

Brugger, Andreas: *See*—
Bensch, Emil, and Brugger. 3,053,591.

Bruggink, Gordon J., Sr. Attachment for barn milk lines. 3,067,756, 12–11–62, Cl. 134—94.

Brugler, Richard L., to Chrysler Corp. Air outlet grille. 3,030,872, 4–24–62, Cl. 98—40.

Brugler, Richard L., to Chrysler Corp. Air conditioning structure. 3,059,447, 10–23–62, Cl. 62—183.

Brugma, Frederick C.: *See*—
Boensel, Donald W., and Brugma. 3,062,442.

Brugmann, John B., to San Gabriel Ready Mixed. Stabilized concrete mix and method of use thereof. 3,018,880, 1–30–62, Cl. 206—47.

Bruijning, Hugo G., to North American Philips Co., Inc. Arrangement for impulse modulation of a magnetron. 3,015,778, 1–2–62, Cl. 328—67.

Bruin, Pieter, and J. Selman, to Shell Oil Co. Preparation of diethers of polymethylol diphenylolalkanes. 3,024,285, 3–6–62, Cl. 260—613.

Bruining, Hajo, to North American Philips Co., Inc. Camera. 3,037,564, 6–5–62, Cl. 178—7.1.

Bruins, Paul F.: *See*—
Boenau, Arthur H., Bruins, and Salvesen. 3,062,771.
Higgins, Thomas W., Capsuto, and Bruins. 3,018,316.

Bruinsma, Josephus F. D., to Kiekens-Werkelwind-Holland (Kiekens-Whirlwind-Holland) KWH N.V. Device for atomizing liquids. 3,022,013, 2–20–62, Cl. 239—419.

Bruist, Frederik A.: *See*—
Tempel, Eggo J., and Bruist. 3,070,098.

Bruma, Marc, to Centre National de la Recherche Scientifique. Apparatus for machining pieces by means of intermittent electrical discharges. 3,036,197, 5–22–62, Cl. 219—69.

Bruna, Marc, and R. Marx, to Centre National de la Recherche Scientifique. Magnetic resonance devices. 3,028,541, 4–3–62, Cl. 324—.5.

Brumagim, Ivan S. Rotary seal with cooling means. 3,057,646, 10–9–62, Cl. 285—41.

Brumbach, Joseph F., to Victor Comptometer Corp. Recording devices. 3,055,977, 9–25–62, Cl. 178—19.

Brumbach, Robert E., to Samuel Moore & Co. Composite nylon tube. 3,062,241, 11–6–62, Cl. 138—125.

Brumbach, Robert E., and H. A. Johansen, to Samuel Moore & Co. Hose assembly incorporating a ground wire. 3,042,737, 7–3–62, Cl. 174—47.

Brumbauch, Isaac V. Universal gas valve. 3,068,902, 12–18–62, Cl. 137—628.

Brumby, Paul A.: *See*—
Baker, Corwin W., Brumby, Christensen, and Sillars. 3,030,938.

Brumfield, Richard S., E. B. Dwaayer, F. Shanty, and C. J. Shoemaker, to United States of America, Army. Oronasal mask. 3,049,121, 8–14–62, Cl. 128—146.

Brumfield, Robert N. Portable and adjustable basketball goal. 3,025,058, 3–13–62, Cl. 273—1.5.

Brumley, Corwin H., to Bausch & Lomb Inc. Recording apparatus. 3,046,554, 7–24–62, Cl. 346—29.

Brumley, Corwin H., to Bausch & Lomb Inc. Image forming element. 3,060,805, 10–30–62, Cl. 88—57.

Brumley, Corwin H., and C. A. Shute, to Bausch & Lomb Inc. Projection apparatus. 3,029,693, 4–17–62, Cl. 88—28.

Brumley, Corwin H., and J. A. Clark, to Bausch & Lomb Inc. Slide projector. 3,060,800, 10–30–62, Cl. 88—28.

Brumm, Richard S., to Grove Valve and Regulator Co. Regulator. 3,068,883, 12–18–62, Cl. 137—116.5.

Brumme, Harald: *See*—
Brummel, Karl J., and Brumme. 3,066,921.

Brümmer, Alfred. Boat construction. 3,063,069, 11–13–62, Cl. 9—6.

Brummer, Hermann. Dispensing apparatus. 3,042,280, 7–3–62, Cl. 226—135.

Brun, Gaston: *See*—
Mercier, Henri, and Brun. 3,020,098.

Brun, Georges, to Societe d'Etudes et d'Exploitation du Generateur a Piston Libre. Hydraulic apparatus. 3,056,355, 10–2–62, Cl. 103—126.

Brunand, Raymond: *See*—
Grunberg, Jacques F., and Brunand. 3,066,492.

Brunberg, Karl G.: *See*—
Treffner, Arvo, Lilisunde, and Brunberg. 3,043,915.

Brundage, Clinton F., to Minnesota Mining and Mfg. Co. Apparatus for mounting inserts. 3,059,691, 10–23–62, Cl. 156—530.

Brundage Co., The: *See*—
Rockafield, Wilden A., and Brundage. 3,051,372.

Brundage, James W.: *See*—
Mallory, Edwin E., and Brundage. 3,065,503.

Brundage, James W., and E. E. Mallory, to National Rubber Machinery Co. Tire carcass holder and curing press. 3,065,499, 11–27–62, Cl. 18—2.

Brundage, John F., to Allis-Chalmers Mfg. Co. Disk harrow. 3,033,295, 5–8–62, Cl. 172—597.

Brundage, Joseph E.: *See*—
Rockafield, Wilden A., and Brundage, 3,051,372.

Brundage, Raymond L. Toy electric train control system. 3,017,839, 1–23–62, Cl. 104—149.

Brundage, Robert W. Variable volume hydraulic pump or motor. 3,022,741, 2–27–62, Cl. 103—120.

Brundage, Robert W. Hydraulic pump or motor. 3,034,446, 5–15–62, Cl. 103—126.

Brundage, Robert W. Hydraulic pump or motor. 3,034,447, 5–15–62, Cl. 103—126.

Brundage, Robert W. Hydraulic pump. 3,034,448, 5–15–62, Cl. 103—126.

Brundige, Maurice M., to West Virginia Pulp and Paper Co. Process of finishing paper. 3,024,129, 3–6–62, Cl. 117—65.2.

Brundin, Nils H.: *See*—
Palmqvist, Sven R., and Brundin. 3,024,088.

Brundler, Hans. Meat comminuting machine. 3,053,297, 9–11–62, Cl. 146—192.

Bruneau, Henry L. Machine for recovering precious metals. 3,040,885, 6–26–62, Cl. 209—14.

Brunelet, Lucien: *See*—
Vidal, Pierre, Mignot, and Brunelet. 3,052,557.

Bruner Coro.: *See*—
Rudelick, John. 3,049,239.
Rudelick, John. 3,058,816.
Veitel, Robert D., and Palmer. 3,037,633.

Bruner, Henry K.: *See*—
Staggers, John O., and Bruner. 3,030,204.

Bruner, Leonard B., to Dow Corning Corp. Acyloxy-end-blocked diorganopolysiloxanes. 3,032,532, 5–1–62, Cl. 260—46.5.

Bruner, Leonard B., to Dow Corning Corp. Acyloxy siloxanes and a method of using them. 3,035,016, 5–15–62, Cl. 260—46.5.

Bruner, Leonard B., to Dow Corning Corp. Polysiloxane stabilization. 3,065,203, 11–20–62, Cl. 260—46.5.

Bruner, Leonard B., Jr., to Dow Corning Corp. Method of preparing organosiloxane elastomer foams. 3,070,555, 12–25–62, Cl. 260—2.5.

Brunetti, Leonello, and G. A. Bertoli. Valve for toilet tank. 3,063,060, 11–13–62, Cl. 4—57.

Brunig, William F., and N. Naidenoff. Flexible tube coupler. 3,031,213, 4–24–62, Cl. 285—233.

Bruning, Vernon H. Windrowing attachment. 3,032,958, 5–8–62, Cl. 56—192.

Bruning, William E., ½ to International Paper Co., and ½ to The Stanley Works. Grain car bulkhead. 3,025,804, 3–20–62, Cl. 105—376.

Bruning, William E., ½ to International Paper Co. and ½ to The Stanley Works. Nailable metal door post and door combination. 3,052,292, 9–4–62, Cl. 160—368.

Bruninghaus, Paul, to Rheinische Werkzeug- und Metallwarenfabrik G.m.b.H. Vibrating head. 3,039,012, 6–12–62, Cl. 310—29.

Brunings, Jay E., to Foster Wheeler Corp. Method and apparatus for aqueous homogeneous reactor systems. 3,015,617, 1–2–62, Cl. 204—193.2.

Brunings, Karl J.: *See*—
Blackwood, Robert K., and Brunings. 3,042,716.

Brunk, Konrad, to Bayer Aktiengesellschaft, Farbenfabriken. Means for distributing viscous substances on falling film evaporation. 3,058,516, 10–16–62, Cl. 159—6.

Brunkhardt, Frederick W., to United Aircraft Corp. Rocket motor construction. 3,056,257, 10–2–62, Cl. 60—35.6.

Brunkow, Alvin F. and J. Semi-automatic multiblade power saw. 3,016,931, 1–16–62, Cl. 143—46.

Brunkow, James: *See*—
Brunkow, Alvin F. and J. 3,016,931.

Brunn, Adam W., and W. J. Koch, to Hightstown Rug Co. Apparatus and method for making pile fabric with varying height of pile. 3,055,196, 9–25–62, Cl. 66—84.

Brunner, Alfred, to Sulzer Freres, S.A. Multistage steam reheating. 3,035,536, 5–22–62, Cl. 122—476.

Brunner, Alfred, to Sulzer Freres, S.A. Apparatus for adjusting the amount of a medium flowing per time unit through a conduit. 3,055,389, 9–25–62, Cl. 137—487.

Brunner, Carl: *See*—
Laverty, Martin J., and Brunner. 3,037,800.

Brunner, Emil. Resilient mat. 3,016,317, 1–9–62, Cl. 154—49.

Brunner, Ernest: *See*—
Nicklin, Thomas, Sommerville, Brunner, and Isherwood. 3,035,889.

Brunner, John J.: *See*—
Mercer, John L., and Brunner. 3,070,081.

Brunner, Joseph F., Jr., to Kay-Brunner Steel Products, Inc. Digger tooth construction. 3,023,521, 3–6–62, Cl. 37—142.

Brunner, Matthew J., P. Finkelstein, and H. E. Hibnick, to The Gillette Co. Clinchophen-hydrocortisone topical compositions. 3,019,162, 1–30–62, Cl. 167—58.

Brunner, Richard J., to General Motors Corp. Carburetor governor. 3,021,827, 2–20–62, Cl. 123—103.

Brunner, Robert. Process for providing a finished knitted fabric with predetermined dimensions in the direction of its length and its width. 3,044,142, 7–17–62, Cl. 26—18.5.

Brunner, Russell K.: *See*—
Chall, Harold J., and Brunner. 3,021,055.

Brunner, Russell K., to International Business Machines Corp. Arrangement for setting the recording heads of magnetic recording machines. 3,057,970, 10–9–62, Cl. 179—.2.

Brunner, Sam W. Portfolio. 3,020,945, 2–13–62, Cl. 150—3.
Brunnsell, Rollo E. Apparatus for opening and closing milking barn doors. 3,017,867, 1–23–62, Cl. 121—44.
Bruno, Frederic J., to Oxy-Dry Sprayer Corp. Cleaning and tension control systems for paper and other products. 3,045,273, 7–24–62, Cl. 15—306.
Bruno, Michael F., to E. I. du Pont de Nemours and Co. Polymeric compositions, shaped articles therefrom and process of preparation. 3,018,269, 1–23–62, Cl. 260—45.8.
Bruno, Patrick J., to Albany Machine Tool Corp. Locking device for removable handles. 3,026,742, 3–27–62, Cl. 74—548.
Brunot, Jean-Paul, to Compagnie de Pont-A-Mousson. Hydraulic control device for a gear box. 3,023,641, 3–6–62, Cl. 74—750.
Bruns, Ernest F.: *See*—
Johnson, Stuart J., Bruns, and Whitman. 3,059,546.
Bruns, William H., to Otis Elevator Co. Control for an elevator closure. 3,050,154, 8–21–62, Cl. 187—48.
Brunschweiger, Alfred, to International Business Machines Corp. Unipolar generator. 3,068,366, 12–11–62, Cl. 307—88.5.
Brunschweiger, Alfred, and L. H. Thompson, to International Business Machines Corp. Register for high frequency phase jitter. 3,040,258, 6–19–62, Cl. 328—37.
Brunsing, Rex L. Multi-can package. 3,022,888, 2–27–62, Cl. 206—65.
Brunsing, Rex L. Multi-can package. 3,055,497, 9–25–62, Cl. 206—65.
Brunson, Amber N., to Brunson Instrument Co. Optical alignment instrument. 3,060,792, 10–30–62, Cl. 88—14.
Brunson Instrument Co.: *See*—
Brunson, Amber N. 3,060,792.
Brunson, Raymond D., to Howell Instrument, Inc. Apparatus for testing heat responsive devices. 3,067,604, 12–11–62, Cl. 73—1.
Brunson, Virgil A., to Blackmer Pump Co. Pump delivery control mechanism. 3,021,790, 2–20–62, Cl. 103—42.
Brunstetter, Charles H., to Ingersoll-Rand Co. Governor and safety control. 3,058,481, 10–16–62, Cl. 137—28.
Brunsviga Maschinenwerke Aktiengesellschaft: *See*—
Spingies, Erwin, and Rose. 3,019,980.
Spingies, Erwin, and Rose. 3,027,074.
Brunswick Automatic Pinsetter Corp., The: *See*—
Albrecht, Alexander J. 3,018,103.
Albrecht, Alexander J. 3,030,110.
Gautraud, Michael G., and Huck. 3,018,104.
Brunswick Corp.: *See*—
Albrecht, Alexander J. 3,059,925.
Anderson, Robert I., and Schaefer. 3,024,066.
Bernd, Jules P. 3,057,509.
Higgins, John L. 3,043,304.
Le Mieux, Robert W. 3,046,717.
Mohr, Robert G. 3,062,066.
Mohr, Robert G., and Bice. 3,023,066.
Mohr, Robert G., and Lappin. 3,015,531.
Roehr, Zbislaw M. 3,029,815.
Satchell, Fred E. 3,068,007.
Satchell, Fred E., and Drier. 3,018,106.
Schaefer, George E. 3,041,107.
Schaefer, George E. 3,069,163.
Schaefer, George E., Anderson, and Reineman. 3,027,190.
Weichselbaum, Edwin G. 3,063,549.
Weichselbaum, Theodore E. 3,027,799.
Brunt, Kenneth A., and D. Williams, to British Nylon Spinners Ltd. Preparation of detergent compositions. 3,044,-962, 7–17–62, Cl. 252—110.
Brunt, Norman, to British Nylon Spinners Ltd. Apparatus for the treatment of textile materials. 3,067,602, 12–11–62, Cl. 68—5.
Brunton, George D.: *See*—
Slack, Howard A., and Brunton. 3,027,767.
Brunzie, Robert H., and F. M. Fink, to Continental Aluminum Products Co. Detail for awning or jalousie type windows. 3,022,545, 2–27–62, Cl. 20—53.
Bruscaglioni, Rafaello, to Filotecnica Salmoiraghi S.p.A. Adjustable coupling. 3,022,099, 2–20–62, Cl. 287—53.
Bruscaglioni, Raffaello, to Filotecnica Salmoiraghi S.p.A. Portable sewing machine and case therefor. 3,031,796, 5–1–62, Cl. 45—68.2.
Brush, Birchard M.: *See*—
Heverland, William H., and Brush. 3,067,760.
Brush Crystal Co. Ltd.: *See*—
Sugden, John A. 3,068,177.
Brush, John B., to The Procter & Gamble Co. Carton retaining mechanism. 3,066,579, 12–4–62, Cl. 93—53.
Brush, John B. Foldable catamaran. 3,067,439, 12–11–62, Cl. 9—1.
Brush, Robert W., to The Bendix Corp. Separable connector. 3,063,032, 11–6–62, Cl. 339—45.
Bruskin, Eli. Lock deicer. 3,023,748, 3–6–62, Cl. 126—229.
Bruson, Herman A., and T. P. O'Day, to Olin Mathieson Chemical Corp. Halogenated organic phosphorus compounds and process therefor. 3,037,044, 5–29–62, Cl. 260—461.
Bruson, Herman A., and C. D. Mason, to Olin Mathieson Chemical Corp. Linear copolyesters of terephthalic and chloroterephthalic acids. 3,037,964, 6–5–62, Cl. 260—75.
Bruson, Herman A., and T. P. O'Day, to Olin Mathieson Chemical Corp. Ethers of dichlorocyclopropane. 3,047,633, 7–31–62, Cl. 260—611.
Brussalis, William G., Jr., and G. E. Bost, to United States of America, Atomic Energy Commisison. Inverted control rod lock-in device. 3,066,763, 12–4–62, Cl. 188—67.
Brutko, Constantine A., to Pittsburgh Plate Glass Co. Method and apparatus for twisting and plying yarn. 3,048,-000, 8–7–62, Cl. 57—90.
Bruun, Eugene R., to United Aircraft Corp. Rate device. 3,045,500, 7–24–62, Cl. 74—110.
Bruun, Otto J. Tools for affixing lids to cup-like containers. 3,060,661, 10–30–62, Cl. 53—342.
Bruvold, Harold P. Trailer with vertically adjustable frame. 3,051,504, 8–28–62, Cl. 280—43.18.
Bruyere, Francis. Control system for the adjustable reciprocation of the rollers of hat-makers' felting machines. 3,032,854, 5–8–62, Cl. 28—5.
Bruzzone, Mario: *See*—
Natta, Giulio, Bruzzone, and Borsini. 3,050,503.
Bry, Thomas S.: *See*—
Fried, John, and Bry. 3,046,273.
Bryan, Darrel L.: *See*—
Brecko, Richard E., and Bryan. 3,055,675.
Bryan, David G.: *See*—
Bray, Frederick H., and Bryan. 3,039,683.
Bryan, George W.: *See*—
Mixon, Loren B., Bryan, and Van Gorden. 3,018,615.
Bryan, Harold W., to Westinghouse Air Brake Co. Railway traffic controlling apparatus. 3,046,391, 7–24–62, Cl. 246—63.
Bryan, Harvard J.: *See*—
Mills, Robert L., and Bryan. 3,036,530.
Bryan, James D., and J. W. Thompson. Optical simulator. 3,039,204, 6–19–62, Cl. 35—10.2.
Bryan, John L., Jr.: *See*—
Tegge, Bruce R., and Bryan. 3,033,836.
Bryan, Lloyd L. Combination cooking and fireplace unit. 3,034,494, 5–15–62, Cl. 126—137.
Bryan, Loren A.: *See*—
Prutton, Carl F., Miller, and Bryan. 3,062,897.
Bryan, Loren A., and C. B. Miles, to FMC Corp. Preparation of barium sulfonates. 3,031,497, 4–24–62, Cl. 260—504.
Bryan, Max B., and H. C. French, to Dempster Bros., Inc. Containers for transporting and dumping materials. 3,042,-238, 7–3–62, Cl. 214—317.
Bryan, Richard C., to Carl N. Beetle Plastics Corp. Filter method. 3,026,609, 3–27–62, Cl. 29—419.
Bryan, Robert E. Electric wire grip. 3,048,908, 8–14–62, Cl. 24—122.6.
Bryan, Samuel, to Sprague Electric Co. Encased magnetic core. 3,042,841, 7–3–62, Cl. 317—158.
Bryan, William L., to Rohm & Haas Co. Ion exchange fabrics. 3,062,379, 11–6–62, Cl. 210—499.
Bryan, William T., and J. L. Arwine, to The Duriron Co., Inc. Anode for cathodic protection system. 3,043,765, 7–10–62, Cl. 204—196.
Bryant, Austin U., to Grove Valve and Regulator Co. Valve construction. 3,026,084, 3–20–62, Cl. 251—282.
Bryant Chucking Grinder Co.: *See*—
Grobey, Paul A., Lovely, and Thayer. 3,023,552.
Lillie, Gordon E. 3,043,062.
Bryant, Clifford A., R. F. Hackney, and O. C. Payne, to Cabin Crafts, Inc. Tufting machine and method for producing multi-color designs in carpeting and the like. 3,026,-830, 3–27–62, Cl. 112—79.
Bryant, Donald D. Snap-on dustguard oil seals. 3,048,410, 8–7–62, Cl. 277—10.
Bryant Electric Co., The: *See*—
Bullis, Earl, Jr. 3,025,373.
Bullis, Earl, Jr. 3,069,651.
Carissimi, Vincent L. 3,030,605.
Howells, Robert D. 3,032,736.
Lennox, George C. 3,048,808.
Lennox, George C. 3,054,980.
Lennox, George C. 3,064,225.
Mason, Stuart A. 3,040,290.
Mason, Stuart A. 3,059,212.
O'Donnell, Henry L. 3,064,071.
Smith, Clarence M. 3,018,461.
Smith, Clarence M. 3,036,285.
Swartwood, Gerald L. 3,059,045.
Taylor, Owen L. 3,036,288.
Wiley, Roy O. 3,036,171.
Wiley, Roy O. 3,054,878.
Wiley, Roy O. 3,064,224.
Wiley, Roy O., and Baxendell. 3,036,185.
Wiley, Roy O., and Bullis. 3,064,230.
Bryant, Gerald F. Printing press sheet feeding mechanism. 3,025,055, 3–13–62, Cl. 271—59.
Bryant, H. Lee: *See*—
Doyle, William M. 3,029,754.
Bryant, Hazrel M.: *See*—
Cooper, Dexter P., Jr., and Bryant. 3,022,439.
Bryant, Jack, to United Kingdom Atomic Energy Authority. Electrical counting circuits. 3,037,118, 5–29–62, Cl. 250—83.6.
Bryant, James M.: *See*—
Graber, Carl D., Deaton, Mason, and Bryant. 3,028,074.
Bryant, Leland W., to General Motors Corp. Wet nozzle area control. 3,016,696, 1–16–62, Cl. 60—35.6.
Bryant, Ozro N., to Westinghouse Electric Corp. Mechanism for controlling admission of hot motive fluid to a prime mover. 3,026,889, 3–27–62, Cl. 137—18.

Bryant, Paul M.: *See*—
Kulberg, John F., and Bryant. 3,038,224.
Bryant, Terence G.: *See*—
Coates, Graham, and Bryant. 3,057,793.
Bryant, Wesley B. Steam producing stove for Finnish baths. 3,022,782, 2–27–62, Cl. 126—344.
Bryant, William C., to Turner Mfg. Co. Protective backing for mirrors. 3,069,289, 12–18–62, Cl. 117—71.
Brydolf, Robert: *See*—
Tucker, Council A., and Brydolf. 3,048,882.
Brydolf, Robert, to Acme Appliance Mfg. Co. Folding door hardware. 3,054,447, 9–18–62, Cl. 160—206.
Brydolf, Robert, to Acme Appliance Mfg. Co. Panel frame. 3,058,173, 10–16–62, Cl. 20—19.
Bryer, Jack: *See*—
Neal, Frank, and Bryer. 3,055,657.
Bryer, Robert F., and D. C. Chadney, to The General Electric Co. Ltd. Control means for X-ray apparatus. 3,038,998, 6–12–62, Cl. 250—102.
Brylski, Lukas. Clothes rack. 3,058,599, 10–16–62, Cl. 211—168.
Bryman, Kingsley M. Portable wire reeling device. 3,070,-324, 12–25–62, Cl. 242—86.5.
Bryner, Ernest J.: *See*—
Ianuzzi, Joseph N., and Bryner. 3,068,626.
Bryner, Ernest J., J. N. Ianuzzi, and D. Bridges, Sr., deceased (C. K. Bridges, executrix). Capping machine. 3,054,167, 9–18–62, Cl. 29—203.
Bryner, Fred, to The Dow Chemical Co. Method for chlorinating alkylidenebisphenols. 3,035,098, 5–15–62, Cl. 260—619.
Bryner, Fred, and A. J. Dietzler, to The Dow Chemical Co. Preparation of *p,p'*-isopropropylidenediphenol disalicylate. 3,041,370, 6–26–62, Cl. 260—474.
Bryson, Ralph: *See*—
Sawyer, Howard S. and D. B., Mozoliauskas, and Bryntesson. 3,040,460.
Brys, Harry E., to Armco Steel Corp. Continuous resistivity gauge. 3,042,861, 7–3–62, Cl. 324—62.
Bryson, William B., to Communication Products Co., Inc. Dielectric loaded colinear vertical dipole antenna. 3,031,-668, 4–24–62, Cl. 343—790.
Brzustowski, Jerzy M.: *See*—
Mark, Alexander H., Brzustowski, and Coleman. 3,049,-128.
Bub, Robert A.: *See*—
Summers, James J., and Bub. 3,025,964.
Bub, Robert A., to Mine Safety Appliances Co. Spiral roll filter unit. 3,037,637, 6–5–62, Cl. 210—487.
Bub, Robert A., to Mine Safety Appliances Co. Filter gasket. 3,037,-238, 7–3–62, Cl. 24—323.
Bub, Robert A., to Mine Safety Appliances Co. Filter sheet clamping and spacing device. 3,069,018, 12–18–62, Cl. 210—493.
Buban, Elmer E., to Mine Safety Appliances Co. Liquid oxygen analyzing apparatus. 3,029,627, 4–17–62, Cl. 73—23.
Bubniak, William C., R. W. Haushalter, J. M. Ricketts, W. A. Turunen, and P. T. Vickers, to General Motors Corp. Rotary regenerator. 3,057,604, 10–9–62, Cl. 257—269.
Buc, Saul R., and D. I. Randall, to General Aniline & Film Corp. Nitrobenzylsulfonylethanol compounds. 3,019,266, 1–30–62, Cl. 260—607.
Buc, Saul R., and D. I. Randall, to General Aniline & Film Corp. Nitrobenzylthioethanol compounds. 3,019,268, 1–30–62, Cl. 260—609.
Buc, Saul R., H. B. Freyermuth, R. L. Mayhew, and D. I. Randall, to General Aniline & Film Corp. Phthalocyanine dyestuffs. 3,062,830, 11–6–62, Cl. 260—314.5.
Bucalo, Louis, to Specialties, Inc. Apparatus for winding wire on forms. 3,050,266, 8–21–62, Cl. 242—4.
Bucarey, Abelino C.: *See*—
Haigh, Leslie B., Herbig, and Bucarey. 3,069,503.
Bucchianeri, Angelo G.: *See*—
Wayson, Andrew J., and Bucchianeri. 3,045,417.
Buccicone, Dario, to Buccicone Engineering Co., Inc. Mechanism for stagger piling of metal sheets. 3,020,810, 2–13–62, Cl. 93—93.
Buccicone, Dario, to Buccicone Engineering Co., Inc. Sheet piler for handling odd shaped materials. 3,055,659, 9–25–62, Cl. 271—86.
Buccicone, Dario, to Buccicone Engineering Co., Inc. Sheetpiler. 3,061,305, 10–30–62, Cl. 271—68.
Buccicone Engineering Co., Inc.: *See*—
Buccicone, Dario. 3,020,810.
Buccicone, Dario. 3,055,659.
Buccicone, Dario. 3,061,305.
Bucek, Hans: *See*—
Berghaus, Bernhard, and Bucek. 3,018,409.
Berghaus, Bernhard, and Bucek. 3,035,205.
Buchanan, Baird L.: *See*—
Buchanan, Marian J. and B. L. 3,066,309.
Buchanan, Ben B., to Phillips Petroleum Co. Removing salt from sea water. 3,027,320, 3–27–62, Cl. 210—59.
Buchanan, Earl H., and E. W. Thompson, to United States of America, Army. Gas flow control rocket motor device. 3,066,484, 12–4–62, Cl. 60—35.6.
Buchanan Electrical Products Corp.: *See*—
Ustin, George. 3,019,408.
Ustin, George. 3,063,313.
Buchanan, Hersbel H., to General Electric Co. Luminaire separable fastener. 3,025,094, 3–13–62, Cl. 292—256.
Buchanan, J. D., and B. Smith, Jr., to Hydraulic Research and Mfg. Co. Pressure control servo valve. 3,015,317, 1–2–62, Cl. 121—46.5.
Buchanan, James B., and W. A. Gregory, to E. I. du Pont de Nemours and Co. Trifluoromethyl thio compounds. 3,061,645, 10–30–62, Cl. 260—599.
Buchanan, John D., and K. A. Darney, to The Bendix Corp. Condensate pump. 3,065,712, 11–27–62, Cl. 103—255.
Buchanan, Marian J. and B. L. Garment pocket with removable reinforcement and method. 3,066,309, 12–4–62, Cl. 2—248.
Buchanan, Stephen N. Electrical wiring unit. 3,022,485, 2–20–62, Cl. 339—175.
Buchanan, Stephen N. Electrical wiring units. 3,029,405, 4–10–62, Cl. 339—14.
Buchanan, Warren E. Pre-formed sections for platforms or the like. 3,023,834, 3–6–62, Cl. 182—223.
Buchdahl, Rolf: *See*—
Ezrin, Myer, Isaksen, Newman, and Buchdahl. 3,052,-924.
Buchel, Werner. Table setting device. 3,029,969, 4–17–62, Cl. 220—20.
Bucher, Lawrence E., R. C. Hug, and W. C. Eastin, to The Clayton Corp. of Delaware, Inc. Reusable tamper-indicating container closure. 3,028,992, 4–10–62, Cl. 220—27.
Buchheit, Paul: *See*—
Müller, Robert, Buchheit, and Nitzsche. 3,032,439.
Buchhold, Theodor A., to General Electric Co. Bearing construction. 3,026,151, 3–20–62, Cl. 308—10.
Buchhold, Theodor A., to General Electric Co. Gyroscope. 3,044,309, 7–17–62, Cl. 74—5.
Buchholtz, Theodore: *See*—
Hunder, Ray A., and Buchholtz. 3,029,457.
Buchholz, Arnold, F. Haban, and R. A. Weeks, to Brandt Automatic Cashier Co. Coin sorter and computer. 3,016,-191, 1–9–62, Cl. 235—92.
Buchholz, Arnold R. and F. Haban, to Brandt Automatic Cashier Co. Electrically controlled coin dispensing machine. 3,020,916, 2–13–62, Cl. 133—2.
Buchholz, Arnold R., and T. A. Evans, to Brandt Automatic Cashier Co. Electrically controlled coin dispensing machine. 3,023,755, 3–6–62, Cl. 133—4.
Buchholz, Arnold R., F. Haban, and R. A. Weeks, to Brandt Automatic Cashier Co. Coin sorter. 3,026,982, 3–27–62, Cl. 194—9.
Buchholz, Bernard: *See*—
Deger, Thomas E., Buchholz, and Goshorn. 3,035,097.
Goshorn, Roland H., Buchholz, and Deger. 3,036,133.
Olin, John F., Buchholz, Loev, and Goshorn. 3,070,632.
Buchholtz, George O., to Slip On Easel Corp. Slip on easel for books or like articles. 3,039,227, 6–19–62, Cl. 45—85.
Buchholz, Karl, to Joh. A. Benckiser, G.m.b.H. Binding agents for meat. 3,032,421, 5–1–62, Cl. 99—109.
Buchholz, Robert, and B. C. Schnenzel, to International Business Machines Corp. Core array temperature responsive apparatus. 3,060,418, 10–23–62, Cl. 340—227.
Buchholz, Wilhelm: *See*—
Detert, Ernst-Rolf, and Buchholz. 3,062,688.
Buchi, Alfred, deceased; H. Walder, executor, to Ingenieurbureau D.-Ing. Alfred J. Buchi A.G. Four-stroke internal combustion engine. 3,015,323, 1–2–62, Cl. 123—79.
Buchi, Alfred, deceased, H. Walder, executor, to Ingenieurbureau Dr.-Ing. Alfred J. Buchi A.G. Two-stroke internal combustion engines. 3,042,012, 7–3–62, Cl. 123—65.
Buchi, Alfred J. Turbo-blower. 3,054,554, 9–18–62, Cl. 230—116.
Buchi, Alfred J. Valve control gear for internal combustion engines having concentric inlet and outlet valves. 3,055,350, 9–25–62, Cl. 123—79.
Buchi, Alfred J. Valve control mechanism for internal combustion piston engines. 3,060,916, 10–30–62, Cl. 123—79.
Buchi, Walter, and Z. Buschle; said Buschle assor. to Buchi. Shoe-scouring machine. 3,057,121, 10–9–62, Cl. 51—102.
Buchinski, Joseph J.: *See*—
Pflumm, Heinz R., and Buchinski. 3,057,049.
Buchleitner, Johann, to Böhler & Co. Aktiengesellschaft, Gebr. Articulated joints. 3,068,668, 12–18–62, Cl. 64—32.
Buchmann, Kenneth H.: *See*—
Stahl, Samuel. Foote, and Buchmann. 3,023,600.
Buchmeier, Eduard, to Grunzweig & Hartmann A.-G. Facing arrangement for walls. 3,016,898, 1–16–62, Cl. 189—85.
Buchmuller, Werner, and H. Mey, to Goetzewerke Friedrich Goetze Aktiengesellschaft. Machines for turning rings. 3,024,685, 3–13–62, Cl. 82—17.
Buchner, Bernard: *See*—
Brautigam, Rudolf G., and Buchner. 3,059,992.
Büchner, Karl, O. Roelen, J. Meis, and H. Langwald, to Ruhrchemie Aktiengesellschaft. Production of heptadecane-dicarboxylic acid-1,17. 3,043,871, 7–10–62, Cl. 260—537.
Buchner, Karl, and H. Tummes, to Ruhrchemie Aktiengesellschaft. Process for the production of mixtures of isomeric aliphatic or cycloaliphatic carboxylic acids having molecular sizes of from C_8 to C_{20}. 3,047,599, 7–31–62, Cl. 260—413.
Buchner, Reinhold: *See*—
Bemmann, Rudolf, Höringklee, and Büchner. 3,036,882.
Buchsteiner, Josef, to Dentalwerk Burmoos Ges. m.b.H. Wrist joint assembly for dental purposes. 3,054,186, 9–18–62, Cl. 32—23.
Buchtenkirch, Arthur J., W. Lipkin, and M. D. Widenor, to Chas. Pfizer & Co., Inc. Automatic fill-control system. 3,053,332, 9–11–62, Cl. 177—120.

Buchwald, Fritz, and H. Fliegner, to International Standard Electric Corp. Arrangement to separate piled flat articles from each other. 3,055,695, 5–22–62, Cl. 209—82.

Buchwald, Fritz, H. Fliegner, W. Kastenbein, and W. Sindzinski, to International Standard Electric Corp. Arrangement for the sorting of mail-items according to size. 3,069,011, 12–18–62, Cl. 209—90.

Büchwald, Güstav: *See*—
Schnell, Hermann, and Büchwald. 3,057,882.

Buchwald, Robert M., to General Motors Corp. Leaf spring swing axle suspension. 3,064,750, 11–20–62, Cl. 180—73.

Buck, Daniel C., to United States of America, Navy. Magnetron cavity resonator assembly. 3,064,158, 11–13–62, Cl. 315—39.55.

Buck, Dudley A.: *See*—
Slade, Albert E., and Buck. 3,019,978.

Buck, Eugene W., to Buck Mfg. Co. Adjustable magnetic drill mount. 3,044,321, 7–17–62, Cl. 77—7.

Buck, Eugene W., to Buck Mfg. Co. Adjustable magnetic drill mount. 3,044,324, 7–17–62, Cl. 77—59.

Buck, Eugene W., to Buck Mfg. Co. Unitary portable electromagnetic clamp. 3,045,620, 7–24–62, Cl. 113—99.

Buck, Frank. Device for changing tubular lights. 3,069,195, 12–18–62, Cl. 294—21.

Buck, Harold W.: *See*—
McKnight, George S., Jr., and Buck. 3,015,575.

Buck, Henry M.: *See*—
White, Millage H., and Buck. 3,036,460.

Buck, Henry M., and B. A. Peters, to Jersey Production Research Co. Well fluid sampler. 3,055,428, 9–25–62, Cl. 166—64.

Buck, James R., to Buck Tool Co. Drill chuck. 3,056,609, 10–2–62, Cl. 279—1.

Buck, John C.: *See*—
Gardner, George R., and Buck. 3,022,556.

Buck, Leo V.: *See*—
Conlee, George D., and Buck. 3,028,680.

Buck Mfg. Co.: *See*—
Buck, Eugene W. 3,044,321.
Buck, Eugene W. 3,044,324.
Buck, Eugene W. 3,045,620.

Buck, Richard M., to Westinghouse Electric Corp. Filament-stretching device. 3,058,497, 10–16–62, Cl. 140—71.6.

Buck, Richard S., to United States of America, Navy. Ramjet missile. 3,066,480, 12–4–62, Cl. 60—35.6.

Buck, Robert C. Tool for removing windshield wiper arms. 3,046,646, 7–31–62, Cl. 29—278.

Buck, Ronald H., Jr., to General Motors Corp. High temperature chromium-molybdenum alloy. 3,030,206, 4–17–62, Cl. 75—176.

Buck, Russell E., to Buck Tool Co. Resilient auxiliary chuck jaw. 3,054,621, 9–18–62, Cl. 279—110.

Buck, Steward T. Automatic control system for hoisting machine. 3,053,344, 9–11–62, Cl. 187—2.

Buck Tool Co.: *See*—
Buck, James R. 3,056,609.
Buck, Russell E. 3,054,621.

Buck, Walter F.: *See*—
MacHutchin, John G., Buck, and Flynn. 3,038,271.

Buck, Willard E. Method and apparatus for cooling and lubricating gas turbine bearings. Re. 25,227, 8–21–62, Cl. 82—74.

Buck, Willard E., to T. W. Russell. Load-sensitive system for measuring instruments. 3,058,342, 10–16–62, Cl. 73—141.

Buck, Willard E., to T. W. Russell. Pressure gage. 3,067,-617, 12–11–62, Cl. 73—411.

Buck, William H., to Atlas Press Co. Turret valve. 3,047,015, 7–31–62, Cl. 137—614.17.

Buckay, Stanley L.: *See*—
Kelley, Oliver K., Buckay, and King. 3,023,636.

Buckay, Stanley L., to General Motors Corp. Pressure regulator. 3,025,877, 3–20–62, Cl. 137—620.

Buckbee-Mears Co.: *See*—
McDermott, Hugh L. 3,045,321.

Buckeye Cellulose Corp., The: *See*—
Beyer, John H., Foreman, and Parks. 3,031,371.
Dean, Walter L., Dowell, and James. 3,034,910.

Buckeye Industries, Inc.: *See*—
Gildone, Anthony M. 3,032,139.

Buckeye Iron & Brass Works: *See*—
Botkin, Lawrence A. 3,025,893.
Botkin, Lawrence A. 3,039,489.
Botkin, Lawrence A. 3,060,978.
Botkin, Lawrence A. 3,062,247.

Buckeye, Kazmere S. Crane or jack. 3,059,785, 10–23–62, Cl. 214—1.

Buckeye Molding Co.: *See*—
Robinson, William H., and Scheuring. 3,070,224.

Buckeye Steel Castings Co.: *See*—
Furniss, Loree E. 3,056,511.
Furniss, Loree E. 3,063,573.
Settles, James C., and Macklin. 3,028,019.

Buckeye Tools Corp.: *See*—
Gummere, Harold O., and Kissell. 3,029,978.
Linsker, Eugene. 3,039,331.
Linsker, Eugene. 3,041,897.

Buckholdt, Robert E., and Q. M. Bloom, to Selas Corp. of America. Furnace. 3,015,478, 1–2–62, Cl. 263—6.

Buckingham, Charles W. Surgical bone pin driver. 3,026,-870, 3–27–62, Cl. 128—83.

Buckingham, David E. J., to D. Napier & Son Ltd. Temperature control apparatus for turbine cases. 3,029,064, 4–10–62, Cl. 253—39.1.

Buckingham, Michael J., and W. M. Fairbank, said Buckingham assor. to Duke University, Inc. Superconductive persistatrons and computer systems formed thereby. 3,043,-512. 7–10–62, Cl. 235—175.

Buckingham, William D., N. R. Lane, G. H. Ridge, and F. T. Turner, to The Western Union Telegraph Co. Facsimile transmitter. 3,056,034, 9–25–62, Cl. 250—219.

Buckland, Ivor J.: *See*—
Dowson, Arthur G., and Buckland. 3,050,371.

Buckler, Sheldon A.: *See*—
Epstein, Martin, and Buckler. 3,026,327.
Epstein, Martin, and Buckler. 3,050,531.
Henderson, William A., Jr., Buckler, and Epstein. 3,032,-591.

Buckler, Sheldon A., and M. Epstein, to American Cyanamid Co. New dicarbannoyl tertiary phosphines and their oxides. 3,052,719, 9–4–62, Cl. 260—551.

Buckler, Sheldon A., and V. P. Wystrach, to American Cyanamid Co. Method of solubilizing iron. 3,060,127, 10–23–62, Cl. 252—175.

Buckley, Arthur B. Fluid flow valves. 3,064,939, 11–20–62, Cl. 251—175.

Buckley, Charles W., and S. Rappaport, to Sperry Rand Corp., Ford Instrument Co. Division. Air bearings. 3,026,150, 3–20–62, Cl. 308—9.

Buckley, David A.: *See*—
Laakso, Thomas M., and Buckley. 3,038,874.
Laakso, Thomas M., and Buckley. 3,038,879.

Buckley, Donald J.: *See*—
Hawley, Roger S., Clayton, and Buckley. 3,055,857.

Buckley, Francis T., I. L. Seldin, and R. B. Wojcik, to Monsanto Chemical Co. Heat-reflecting laminates. 3,069,301, 12–18–62, Cl. 154—2.77.

Buckley, Geoffrey: *See*—
Tiffin, Thomas, and Buckley. 3,065,612.

Buckley, Robert, and B. Zaremsky, to Ferro Corp. Stabilized asbestos filled polyvinyl chloride resins. 3,019,205, 1–30–62, Cl. 260—23.

Buckley, William D., Jr., to Direct-O-Dial, Inc. Cover for list finders. 3,061,963, 11–6–62, Cl. 40—104.

Bucklin, Albert G.: *See*—
Grant, Nicholas J., and Bucklin. 3,015,558.

Buckman Laboratories, Inc.: *See*—
Buckman, Stanley J., and Pera. 3,033,700.
Buckman, Stanely J., and Pera. 3,060,049.

Buckman, Stanley J., and J. D. Pera, to Buckman Laboratories, Inc. Silica-coated barium metaborate pigments and processes of producing the same. 3,033,700, 5–8–62, Cl. 106—306.

Buckman, Stanley J., and J. D. Pera, to Buckman Laboratories, Inc. Barium metaborate-silica particles and methods of preparing same. 3,060,049, 10–23–62, Cl. 106—306.

Buckman, Thomas P., to Lockheed Aircraft Corp. Gauge comparator stand. 3,069,891, 12–25–62, Cl. 73—4.

Buckmann, John P., to Union Oil Co. of California. Automotive fuel. 3,034,875, 5–15–62, Cl. 44—58.

Buckmann, John P., F. S. Liggett, and E. L. Wiseman, to Union Oil Co. of Calif. Detergent internal combustion engine fuel. 3,031,278, 4–24–62, Cl. 44—58.

Buckminster, Lloyd A., to Textron Inc. Process and apparatus for blocking lenses. 3,049,766, 8–21–62, Cl. 22—58.

Buckner, Malcolm W. Roofing materials. 3,054,222, 9–18–62, Cl. 50—242.

Buckner Mfg. Co.: *See*—
Kimbro, William S., and McElhenle. 3,035,778.
McElhenle, Edward M. 3,051,396.

Buckwalter, Geoffrey R., to Fred'k H. Levey Co., Inc. Phthalocyanine pigments and method of making same. 3,046,282, 7–24–62, Cl. 260—314.5.

Bucourt, Robert: *See*—
Joly, Robert, and Bucourt. 3,040,078.
Joly, Robert, and Bucourt. 3,040,079.
Joly, Robert, and Bucourt. 3,040,103.
Nomine, Gerard, Bertin, and Bucourt. 3,053,884.
Nomine, Gerard, Bertin, Bucourt, and Pierdet. 3,055,-885.
Nomine, Gerard, and Bucourt. 3,033,856.
Nomine, Gerard, and Bucourt. 3,061,617.
Nomine, Gerard, and Bucourt. 3,069,421.
Nominé, Gerard, Bucourt, and Pierdet. 3,057,887.
Nomine, Gerard, Bucourt, and Vignau. 3,052,672.
Velluz, Leon, Joly, Bucourt, and Fabignon. 3,052,708.

Bucy, J. Fred, Jr.: *See*—
Jones, Hal J., and Bucy. 3,018,468.

Bucyrus-Erie Co.: *See*—
Atkinson, William P., and Lonngren. 3,059,793.
Bauer, Ralph L. 3,053,334.
Bauer, Ralph L., and Davidson. 3,037,649.
Leaumont, Tom, and Talley. 3,045,844.
Perkins, Origen S., and Krueger. 3,020,858.

Buczak, Edwin J. Nesting market cart having a sling seat. 3,070,384, 12–25–62, Cl. 280—33.99.

Bud, Martin. Recording devices. 3,029,120, 4–10–62, Cl. 346—50.

Bud, Martin S. Time recording devices. 3,039,103, 6–12–62, Cl. 346—87.

Budahn, Burnell E. Method for spray drying flowable liquid-containing materials. 3,054,445, 9–18–62, Cl. 159—48.

Budash, Joseph A.: *See*—
Bliven, Roger, Allen, and Budash. 3,029,159.
Budd, Alexander J.: *See*—
Bader, Morton E., and Budd. 3,068,142.
Budd Co., The: *See*—
Archer, George R. 3,034,710.
Dean, Albert G. 3,020,857.
Dean, Albert G., and Bauer. 3,066,621.
Dean, Walter B., and Wessells. 3,044,822.
Dengler, Reeves H. 3,034,608.
Eggert, Walter S., Jr. 3,061,713.
Fesmire, Norman W., and Schane. 3,061,134.
Fesmire, Norman W., and Whirlein. 3,015,407.
Gaenssle, Paul W. 3,034,599.
Golubovic, Georges. 3,034,341.
Gurtner, Francis B. 3,061,713.
Halberstadt, Charles C. 3,021,417.
Halberstadt, Charles C. 3,061,118.
Hochschild, Richard. 3,056,081.
Kalt, Gilbert. 3,035,161.
Kandra, Fred J. 3,024,879.
Leavesley, George W., and Trimble. 3,020,785.
Macgeorge, William D. 3,055,224.
Nelson, Andrew F. 3,029,489.
Nicosia, Joseph P., and Newhouser. 3,044,791.
Paul, John M. 3,047,189.
Riegner, Earl L. 3,034,342.
Schantz, Spencer C. 3,064,223.
Starr, James E. 3,034,346.
Starr, James E. 3,034,347.
Starr, James E. 3,035,240.
Trimble, John O. 3,024,506.
Trimble, John O. 3,052,139.
Van Seiver, Herbert D., II, Bureau, Bende, and Bowers. 3,061,714.
Watter, Michael. 3,024,938.
Watter, Michael. 3,060,561.
Watter, Michael. 3,066,822.
Weglarz, Walter P. 3,035,151.
Wessells, Henry W., III. 3,054,636.
Zandman, Felix. 3,034,395.
Zandman, Felix. 3,039,298.
Zandman, Felix, and Avril. 3,034,344.
Zandman, Felix, and Avril. 3,062,087.
Budd, Larry J., to Pallet Devices, Inc. Palletized container for freezing commodities. 3,052,397, 9–4–62, Cl. 229—6.
Budd, Larry J., to Pallet Devices Inc. Carton for geraniums and the like. 3,058,585, 10–16–62, Cl. 206—65.
Budd, Robert A. Fishing line control attachment for fishing rods. 3,029,543, 4–17–62, Cl. 43—25.
Budé, James C., to American Radiator & Standard Sanitary Corp. Adjustable thermal mixing valve. 3,036,777, 5–29–62, Cl. 236—12.
Budde, Walter M., to Archer-Daniels-Midland Co. Protective film forming compositions and resultant films. 3,050,480, 8–21–62, Cl. 260—22.
Budde, Walter M., Jr., to Archer-Daniels-Midland Co. Hydrophobic sheet material and method of making the same. 3,043,717, 7–10–62, Cl. 117—138.8.
Buddecke, Heinrich. Yarn pack. 3,061,088, 10–30–62, Cl. 206—64.
Buddingh, Cornelius. Means for moving vehicles. 3,029,065, 4–10–62, Cl. 254—35.
Buddy L Corp.: *See*—
Balthazor, Bernard E. 3,030,732.
Buderus'sche Eisenwerke: *See*—
Gobel, Gerhard. 3,070,076.
Budge, Khalil M.: *See*—
Laucher, Richard G., Budge, Falconer, and Bienert. 3,059,426.
Budish, Bernard O. Golf game. 3,054,615, 9–18–62, Cl. 273—87.4.
Budlong, Simeon, to F. J. Littell Machine Co. Mechanical lock-up means for overriding drives. 3,034,364, 5–15–62, Cl. 74—148.
Budnick, Edward G.: *See*—
Brown, Erwin W., and Budnick. 3,056,428.
Budnick, Gunther, deceased, by T. Budnick, legal representative. Coupling for angle transmission. 3,026,692, 3–27–62, Cl. 64—15.
Budnick, Günther, deceased; T. Budnick, heir and legal representative of minor children. Device for the linear interpolation of fine divisions. 3,056,029, 9–25–62, Cl. 250—208.
Budnick, Gunther, deceased; T. Budnick, heir and legal representative of minor children of said G. Budnick. Process and device for reducing scanning and indexing errors of fine divisions. 3,070,700, 12–25–62, Cl. 250—208.
Budnick, Thea: *See*—
Budnick, Gunther. 3,026,692.
Budnick, Günther. 3,056,029.
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Budnowski, Manfred E. Lüeske, and M. Dohr, to Henkel & Cie. G.m.b.H. Process for the production of heat resistant hardened epoxide resins. 3,065,186. 11–20–62, Cl. 260—2.
Budofsky, Seymour S., to H. Silberglait, L. Wolff, and H. Greenwald. Brake device for coin controlled appliance timer. 3,052,329, 9–4–62, Cl. 188—102.
Budovec, Joseph E., and F. J. Connolly, to Jefferson Electric Co. Method of making a waterproof transformer seal. 3,059,283, 10–23–62, Cl. 18—59.
Budreck, Frances, to Monarch Tool & Machinery Co. Perforated hardboard support for screw-cap container. 3,027,036, 3–27–62, Cl. 215—100.
Budreck, Frances, to Universal Magnetic Lock, Inc. Separable magnet assemblies. 3,041,697, 7–3–62, Cl. 24—201.
Budreck, Frances, and A. K. Bey, to Monarch Tool & Machinery Co. Permanent magnet assemblies and quick release mechanisms therefor. 3,034,025, 5–8–62, Cl. 317—159.
Budts, Lucien, F. de Senigon de Roumefort, and J. de Senigon de Roumefort (nee Baligant). Multivibrator circuit arrangement. 3,041,477, 6–26–62, Cl. 307—88.5.
Budwig, Gilbert G. Dual garden spray device. 3,032,274, 5–1–62, Cl. 239—310.
Budwig, Gilbert G. Dispensing valve. 3,050,281, 8–21–62, Cl. 251—342.
Budziarek, Richard, and S. Coffey, to Imperial Chemical Industries Ltd. Manufacture of substituted polycyclic quinones. 3,031,466, 4–24–62, Cl. 260—373.
Budzich, Tadeusz. Constant speed drive. Re. 25,294, 12–4–62, Cl. 121—119.
Budzich, Tadeusz, to The New York Air Brake Co. Means for counteracting centrifugal force moments in rotary cylinder barrel engines. 3,046,906, 7–31–62, Cl. 103—162.
Budzich, Tadeusz, to The New York Air Brake Co. Valve plate for engine. 3,051,093, 8–28–62, Cl. 103—162.
Budzich, Tadeusz. Hydraulic apparatus. 3,056,387, 10–2–62, Cl. 121—119.
Budzich, Tadeusz, to The New York Air Brake Co. Engine. 3,063,381, 11–13–62, Cl. 103—162.
Budzich, Tadeusz, and A. Pitt. Hydraulic transmission. 3,054,263. 9–18–62, Cl. 60—53.
Bueche, Arthur M., and C. S. Oliver, to General Electric Co. Silicone rubber adhesive containing treated filler. 3,024,-146, 3–6–62, Cl. 154—43.
Bueche, Arthur M., and C. S. Oliver, to General Electric Co. Degraded organopolysiloxanes as adhesives. 3,031,366, 4–24–62, Cl. 156—329.
Buecheler, Paul, to Sandoz Ltd. Blue disperse dyestuffs of the anthraquinone series. 3,033,880, 5–8–62, Cl. 260—377.
Buecheler, Paul, to Sandoz Ltd. Dyeing of artificial fibers. 3,043,646, 7–10–62, Cl. 8—40.
Buecheler, Paul, to Sandoz Ltd. (also known as Sandoz A.G.). Compounds of the anthraquinone series. 3,060,200, 10–23–62, Cl. 260—380.
Buechl, Hermann: *See*—
Koster, Roland, and Buechl. 3,063,810.
Buechler, Peter R., and B. B. Kine, to Rohm & Haas Co. Finishing and having coatings of a polymer of 55–80% vinylidene chloride and 20–45% (C_2–C_8)-alkyl acrylate, and production thereof. 3,048,496, 8–7–62, Cl. 117—11.
Buechner, Gerhard, to Oerlikon Engineering Co. Hydraulic drive for electric switchgear. 3,048,016, 8–7–62, Cl. 60—51.
Buegelelsen, Joseph, Co.: *See*—
Zbikowski, Ted. 3,015,103.
Buegler, Robert J., and J. F. McCarroll, Jr., to The Teleregister Corp. Automatic computer program system. 3,033,-447, 5–8–62, Cl. 235—61.6.
Buehler, Albert H., to W-W Metal Works, Inc. Stair railing. 3,018,077, 1–23–62, Cl. 248—43.
Buehler, Arthur, to Ciba Ltd. New anthraquinone dyestuffs containing a reactive triazine group. 3,070,602, 12–25–62, Cl. 260—249.
Buehler, Arthur, to Ciba Ltd. Anthraquinone dyestuffs containing a reactive aliphatic carboxylic acid group. 3,070,-610, 12–25–62, Cl. 260—372.
Buehler, Arthur, A. Fasciati, and C. Zickendraht, to Ciba Ltd. Metalliferous azo-dyestuffs. 3,041,327, 6–26–62, Cl. 260—145.
Buehler Corp., The: *See*—
Austin, William T. 3,040,526.
Austin, William T. 3,040,695.
Christensen, Warren C., and Basso. 3,040,527.
Cochran, Richard L. 3,040,525.
Cochran, Richard L. 3,040,694.
Buehler Gebrueder: *See*—
Eppenberger, Paul. 3,040,890.
Linzberger, Robert. 3,058,677.
Locatelli, Gianluizi. 3,059,595.
Meyer, Fritz. 3,019,618.
Buell, Bennett G., to American Cyanamid Co. New indazolotriazolyl stilbene brighteners soluble in organic media. 3,062,814, 11–6–62, Cl. 260—240.
Buell, Bennett G., and R. S. Long, to American Cyanamid Co. Pyridotriazole brighteners. 3,049,438, 8–14–62, Cl. 117—33.5.
Buell, Bennett G., and R. S. Long, to American Cyanamid Co. Pyridotriazole brighteners. 3,058,989, 10–16–62, Cl. 260—296.
Buell Engineering Co., Inc. *See*—
Balzer, Christian G., and Dohrmann. 3,068,628.
Gallaer, Charles A. 3,059,395.
Buell Mfg. Co.: *See*—
Buell, Roy D., Jr., and Peterson. 3,066,641.
Buell, Richard W., W. A. Lobdell, and G. W. Wrinn, to Claude Sintz, Inc. Throttle control linkage adjustment. 3,034,-813, 5–15–62, Cl. 287—90.
Buell, Roy D., Jr., and B. B. Peterson, to Buell Mfg. Co. Fluid powered horn assembly. 3,066,641, 12–4–62, Cl. 116—112.

Buelow, Fred K., to International Business Machines Corp. High speed, sensitive binary trigger utilizing two series connected negative resistance diodes with variable bias feedback. 3,040,190, 6–19–62, Cl. 307—88.5.

Buelow, Fred K., to International Business Machines Corp. Inverting circuit employing a negative resistance device. 3,054,911, 9–18–62, Cl. 307—88.5.

Buensod-Stacey Corp.: *See*—
Waterfill, Robert W. 3,053,275.
Waterfill, Robert W. 3,053,454.
Waterfill, Robert W. 3,060,960.

Buer, Carl H. Process for preparing stable alcoholic emulsion of grape sugar. 3,070,500, 12–25–62, Cl. 167—65.

Buergel, Alma: *See*—
Buergel, George K. and A., and E. and M. R. Braggiotti. 3,042,096.

Buergel, George K. and A., and E. and M. R. Braggiotti. Retractable snow chains. 3,042,096, 7–3–62, Cl. 152—216.

Buerosse, Henry P. Spread shot arrow head. 3,021,139, 2–13–62, Cl. 273—106.5.

Buescher, Wilbert G., to Clary Corp. Thrust device. 3,069,-846, 12–25–62, Cl. 60—35.6.

Buesing, Richard T., R. P. Gifford, and N. H. Shepherd, to General Electric Co. Continuous tone-controlled squelch system. 3,049,710, pub. 8–14–62, Cl. 343—226.

Buesink, Hendrik, and P. L. Kooijman, to Shell Oil Co. Sulfated hydroxyalkylesters. 3,067,221, 12–4–62, Cl. 260—400.

Buesst & Bills Bros. Proprietary Ltd.: *See*—
Cornish, Raymond. 3,033,243.

Buettner, Donald J.: *See*—
Anderson, Ralph T., and Buettner. 3,016,102.

Buff, Christopher, to American Cable & Radio Corp. Diplex telegraph system using frequency modulation. 3,048,657, 8–7–62, Cl. 178—61.

Buff, Christopher, to Mackay Radio & Telegraph Co. Twinplex telegraph transmission. 3,048,658, 8–7–62, Cl. 178—88.

Buffalo China, Inc.: *See*—
Wahl, Albert J., Lux, and Gould. 3,068,543.

Buffalo Courier Express, Inc.: *See*—
Rosing, Seymour. 3,030,058.

Buffington, William B., to Drillmaster Oil Tools, Inc. Drilling control. 3,070,356, 12–25–62, Cl. 254—173.

Buffoli, Mario. Device for the realization of cams, especially for controlling automatic tools and the like. 3,018,699, 1–30–62, Cl. 90—20.

Bügel, Roelof D., and S. Boone, to North America Philips Co., Inc. Electrolytic wound capacitor. 3,015,759, 1–2–62, Cl. 317—230.

Bugel, Thomas E.: *See*—
Auras, Appy, Mazzucchelli, and Bugel. 3,041,131.

Bugge, Erling P. Paper clip. 3,057,027, 10–9–62. Cl. 24—66

Bugge, Erling P. Cigarette construction. 3,057,360, 10–9–62, Cl. 131—9.

Buggiani, Pietro: *See*—
Novati, Alberto, and Buggiani. 3,062,207.

Bugler, Arthur V., to Linotype and Machinery Ltd. Machines for casting stereotype plates. 3,026,583, 3–27–62, Cl. 22—4.

Bugosh, John: *See*—
Aarons, Ralph, and Bugosh. 3,033,699.

Bugosh, John, to E. I. du Pont de Nemours and Co. Fibrous boehmite containing compositions. 3,031,322, 4–24–62, Cl. 106—286.

Bugosh, John, to E. I. du Pont de Nemours and Co. Chemically modified alumina monohydrate, dispersions thereof and processes for their preparation. 3,031,418, 4–24–62, Cl. 252—313.

Buh, William F., Jr., and C. Ayala, to M. I. Glass. Toy. 3,046,683, 7–31–62, Cl. 40—106.22.

Buhler, Hermann & Co., A.G., Firma: *See*—
Buhler, Hermann, Jr. 3,045,415.

Buhler, Hermann, Jr., to Hermann Buhler & Co., A.G., Firma. Thread suction device on spinning and twisting frames. 3,045,415, 7–24–62, Cl. 57—56.

Buhmann, Anni: *See*—
Ragoss, Alfred, Fitzer, Nedopil, and Buhmann. 3,035,-308.

Buhrendorf, Frederick G., to Bell Telephone Laboratories, Inc. Oscillatory drive circuit. 3,040,223, 6–19–62, Cl. 318—124.

Buhrendorf, Frederick G., to Bell Telephone Laboratories Inc. Tape drive control system. 3,045,884, 7–24–62, Cl. 226—50.

Buhrer, Erwin: *See*—
Häberlin, Hans P. 3,015,864.

Buhrle, Karl A., to Alfred Gauthier G.m.b.H. Means for automatically regulating exposure time in a camera. 3,041,949. 7–3–62, Cl. 95—10.

Buhrle. Karl A., to Alfred Gauthier G.m.b.H. Photographic camera with automatic speed regulator. 3,043,203, 7–10–62, Cl. 95—10.

Buice, Horace L. Wallboard lift. 3,049,243, 8–14–62, Cl. 214—1.

Buisson, Andre, to Societe Lorraine des Anciens Etablissements de Dietrich et Cie de Luneville. Apparatus for loading vehicles on flat railroad cars and the like. 3,039,581, 6–19–62, Cl. 193—38.

Buiting, Francis P., to AMP Inc. Multiple electrical connector. 3.054.979, 9–18–62. Cl. 339—49.

Bujan, Albert F., to Abbott Laboratories. Intravenous needle assembly. 3,064,648, 11–20–62, Cl. 128—214.

Bukata, Stanley W., P. E. Pickert, and D. C. Freeman, Jr., to Union Carbide Corp. Method of removing hydrogen and oxygen from gaseous mixtures. 3,033,642, 5–8–62, Cl. 23—2.

Bukata, Stephen. Furnace. 3,064,118, 11–13–62, Cl. 219—85.

Bukowski, Charles P., and C. A. Wesley, to The Teleregister Corp. Electronic transceiving distributor telegraph system. 3,038,032, 6–5–62, Cl. 178—53.1.

Bukspan, Joseph, to Hygrade Rainwear Mfg. Corp. Shell coats. 3,018,486, 1–30–62, Cl. 2—87.

Buland, Robert N., G. R. Cooper, and J. Margolis, to Ford Motor Co. Cross correlation apparatus. 3,024,994, 3–13–62, Cl. 235—181.

Bulat, Thomas J., to The Bendix Corp. Solutions and methods for radioactive decontamination. 3,047,434, 7–31–62, Cl. 134—1.

Bulat, Thomas J., J. R. Logan, and P. F. Kusy, to The Bendix Corp. Oil separation process. 3,017,342, 1–16–62, Cl. 208—11.

Bulecki, Victor. Rotary toy. 3,069,160, 12–18–62, Cl. 272—33.

Buley, Theodore L.: *See*—
Page, Ralph E., and Buley. 3,042,999.

Bulian, Walter: *See*—
Zerweck, Werner, Bulian, Kunze, and Kiesewetter. 3,020,953.

Bulin, Shelley A., to J. I. Case Co. Fan assembly for harvesting machinery. 3,023,901, 3–6–62, Cl. 209—132.

Bull, Almond D. Hydraulic soil sampler. 3,026,951, 3–27–62, Cl. 175—168.

Bull Dog Lock Co.: *See*—
Waller, Arthur. 3,031,159.

Bull, Nathaniel. Methods and apparatus for conditioning hollow articles against corrosion. 3,020,121, 2–6–62, Cl. 21—2.5.

Bull Nederland, Administratie-en Statistiekmachine Mij, N.V.: *See*—
Hartel, Pieter H. 3,046,009.

Bullard, Sylvan H., Jr., to The Foxboro Co. Characterized signal electrical measuring system. 3,029,638, 4–17–62, Cl. 73—205.

Bullard Co., The: *See*—
Bullard, Edward P., III. 3,028,768.
Bullard, Edward P., III and E. P. Bullard, IV. 3,020,097.

Bullard, David E. Cultivator. 3,062,300, 11–6–62, Cl. 172—21.

Bullard, E. D., Co.: *See*—
Brockway, Brock F. 3,041,621.
Ruggiero, Alfred J. 3,040,329.

Bullard, Edward P., III, to The Bullard Co. Transmission and control thereof. 3,028,768, 4–10–62, Cl. 74—675.

Bullard, Edward P., III and E. P. Bullard, IV, to The Bullard Co. Bearing gib. 3,020,097, 2–6–62, Cl. 308—3.

Bullard, Edward P., III, and E. P. Bullard, IV, to The Bullard Co. Slide bearing. 3,053,580, 9–11–62, Cl. 308—3.

Bullard, Edward P., IV: *See*—
Bullard, Edward P., III and E. P. Bullard, IV. 3,020,097
Bullard, Edward P., III, and E. P. Bullard IV. 3,053,520.
Bullard, Edward P., III, and E. P. Bullard IV. 3,053,580.

Bullard, Robinson D. Slide bearings. 3,030,155, 4–17–62, Cl. 308—3.

Bullard, Robinson D. Power operated turret. 3,064,499, 11–20–62, Cl. 74—822.

Bullard, Wilburn C., Jr.: *See*—
Ellis, Pritchard P., and Bullard. 3,048,984.

Bullas Derek: *See*—
Akhtar, Mohd, and Bullas. 3,065,665.

Buller, Richard M.: *See*—
Foote, Daniel J., and Buller. 3 031,876.

Bulliet, Leander J., to W. F. and John Barnes Co. Machine tool. 3,040,607, 6–26–62, Cl. 82—14.

Bullis, Earl, Jr.: *See*—
Wiley, Roy O., and Bullis. 3,064,230.

Bullis, Earl, Jr., to Westinghouse Electric Corp. Circuit interrupting means for a wiring device. 3,018,342, 1–23–62, Cl. 200—51.16.

Bullis, Earl, Jr., to The Bryant Electric Co. Relay. 3,025,-373, 3–13–62, Cl. 200—113.

Bullis, Earl, Jr., to The Bryant Electric Co. Wiring device. 3,069.651, 12–18–62, Cl. 339—67.

Bullitt, Orville H., Jr., and R. R. Storrow, to E. I. du Pont de Nemours and Co. Aqueous polymerization of carboxylic monomer using colloidal silica and resulting product. 3,069,375, 12–18–62, Cl. 260—29.3.

Bullock, Andrew J., Jr., to International Business Machines Corp. Magnetic core storage device. 3,045,228, 7–17–62, Cl. 340—347.

Bullock, Austin L., and J. D. Guthrie, to United States of America, Agriculture. Cellulose derivative and method of preparing same. 3,017,237, 1–16–62, Cl. 8—120.

Bullock, Austin L., and J. D. Guthrie, to United States of America, Agriculture. Cation exchange starches which retain their original granular form and process for making same. 3.065.222, 11–20–62. Cl. 260—233.3.

Bullock, Donald B., J. T. Cocker, and A. J. Rack, to Bell Telephone Laboratories, Inc. Variable frequency pulse generator. 3,064,208, 11–13–62, Cl. 332—9.

Bullock, Earle C., to Steelcase, Inc. Desk tray. 3,028,975, 4–10–62, Cl. 211—126.

Bullock, Ellis W. Apparatus for mixing a liquid with fine particles. 3,020,028, 2–6–62, Cl. 259—3.

Bullock, Giles E. Process for forming contact lenses. 3,064,-531 11–20–62, Cl. 88—54.5.
Bullock, Herbert L. Tool for installing and removing rubber rollers. 3,022,573, 2–27–62, Cl. 29—235.
Bullock, James A. Shower doors. 3,054,118, 9–18–62, Cl. 4—149.
Bullock, Milon W., J. J. Hand, and R. H. Hall, to American Cyanamid Co. Method of preparing substituted purines. 3,041,340, 6–26–62, Cl. 260—252.
Bullock, Norman J., and T. O. Stutrud, to General Motors Corp. Dispenser for a clothes washer. 3,027,741, 4–3–62, Cl. 68—17.
Bulloff, Jack J. : *See*—
Nack, Herman R., Bulloff, and Whitacre. 3,050,417.
Bulloff, Jack J., to The Commonwealth Engineering Co. of Ohio. Isolation of fatty acids from aqueous solutions thereof. 3,017,434, 1–16–62, Cl. 260—526.
Bulloff, Jack J., to The Commonwealth Engineering Co. of Ohio. Method for producing alkali metal and alkaline earth metal cyclopentadienyls and transition metal compounds derived therefrom. 3,030,393, 4–17–62, Cl. 260—429.
Bulman Corp., The : *See*—
Greenman, Orval L., and Stewart. 3,044,631.
Bulman, E. O., Mfg. Co., Inc. : *See*—
Waltz, Edward. 3,051,223.
Bulova, Ardé, and C. Punzmann, to Bulova Watch Co., Inc. Head construction for electric razors. 3,047,944, 8–7–62, Cl. 30—43.
Bulova Research and Development Laboratories, Inc. : *See*—
Fastenau, Frederick H., and Spielberger. 3,019,404.
Fischer, Franz L. 3,068,699.
Rawlings, Arthur L. 3,051,002.
Roth, Irving, and Rankin. 3,061,727.
Bulova Watch Co., Inc. : *See*—
Bulova, Ardé, and Punzmann. 3,047,944.
Hetzel, Max. 3,057,147.
Bulté, René : *See*—
Deprez, Charles, Bulté, and Crabbe. 3,052,618.
Bultfabriks Aktiebolaget : *See*—
Lejdegard, Sixten H. 3,031,908.
Bumby, John E., to Ripon Foods, Inc. Multiple section paperboard container. 3,028,066, 4–3–62, Cl. 229—16.
Bumiller, Jacques, to Sarmi, S.A. Societa d'Applications de Recherches Minieres et Industrielles, Lenzerheide. Striker mechanisms in particular for power actuated tools. 3,049,-714, 8–21–62, Cl. 1—44.5.
Bumiller, Jacques, to Sarmi, S.A., Societe d'Applications de Recherches Minieves et Industrielles. Firing mechanism for guns. 3,065,560, 11–27–62, Cl. 42—69.
Bump, Edward L. Material dispensing device. 3,040,943, 6–26–62, Cl. 225—52.
Bump, Nancy B. : *See*—
Rainer, William C., Bump, and Dudzik. 3,062,758.
Bumpas, Troy D., W. O. Wheeler, and H. I. Steen. Automatic electrical controls for knitting machines. 3,031,869, 5–1–62, Cl. 66—157.
Bumpus, Paul A. : *See*—
Hublard, Joseph J., and Bumpus. 3,054,133.
Bunce, Robert K. : *See*—
Wiancko, Thomas H., and Bunce. 3,059,125.
Bunch, James I., to General Motors Corp. Call signal encoding transmitter. 3,063,045, 11–6–62, Cl. 340—351.
Bundschuh, John J., L. J. Craig, and W. T. Hochreiter, to Eastman Kodak Co. Automatic exposure control for photographic cameras. 3,016,811, 1–16–62, Cl. 95—10.
Bundschuh, John J., and H. G. Quick, Jr., to Eastman Kodak Co. Aperture control mechanism for photographic camera. 3,025,776, 3–20–62, Cl. 95—10.
Bundus, Robert H. : *See*—
Noznick, Peter P., and Bondus. 3,033,688.
Bundy, Oswald M., to The Clark Controller Co. Electric switch. 3,045,092, 7–17–62, Cl. 200—168.
Bundy, Patrick L., C. E. Hook, and R. W. Reesman, to Michigan Carton Co. Refoldable cellular carton and blank for forming same. 3,031,100, 4–24–62, Cl. 220—113.
Bundy Tubing Co. : *See*—
Gondek, Stanley. 3,050,045.
Gondek, Stanley. 3,066,658.
Wiley, George S. 3,052,199.
Bundy, Willard S., to Barium and Chemicals, Inc. Preparation of pure titanates. 3,065,049, 11–20–62, Cl. 23—51.
Bundy, Willard S., and A. Pavlik, Jr., to Barium and Chemicals, Inc. Purification of strontium nitrate. 3,065,052, 11–20–62, Cl. 23—102.
Bungartz, Theodor : *See*—
Raschig, Klaus, and Bungartz. 3,053,081.
Bunge, Otto, and H. Schurich, to Karl Steinhof, Apparatefabrik. Thread guide for knitting machine. 3,029,620, 4–17–62, Cl. 66—60.
Bunge, Wilhelm, H. Seibert, and H. Haydn, to Agfa Aktiengesellschaft. Electrostatic printing. 3,025,160, 3–13–62, Cl. 96—1.
Bunger, Dennen J., to The Bendix Corp. Exhaust shroud cooling. 3,019,607, 2–6–62, Cl. 60—39.66.
Bunin, Donald S. : *See*—
Draeger, Albertus G., Bunin, and Olsen. 3,052,520.
Buningh, Weigert C., and C. D. Ten Have, to Shell Oil Co. Process for the treatment of hydrocarbon oils. 3,055,825. 9–25–62, Cl. 208—254.
Bunker, George F. Oar paddle, boat hook and oar. 3,040,-693, 6–26–62, Cl. 114—221.
Bunker, Ward : *See*—
Denman, Stephen A., and Bunker. 3,052,217.
Bunker Hill Co., The : *See*—
Grube, Kenneth R., and Williams. 3,043,682.
Bunn, B. H., Co. : *See*—
Bunn, Benjamin H. 3,056,345.
Wimmer, Glen E. 3,050,173.
Bunn, Benjamin H., to B. H. Bunn Co. Twine arm and control therefor. 3,056,345, 10–2–62, Cl. 100—27.
Bunn, George R. Coffee making machine. 3,034,417, 5–15–62, Cl. 99—283.
Bunn, George R. Coffee holding means. 3,034,418, 5–15–62, Cl. 99—323.
Bunn, Opal L., to Fields-Mabie Corp. Steering apparatus for child's vehicle. 3,051,501, 8–28–62, Cl. 280—1.188.
Bunnell, Fred H. Conduit terminal fitting. 3,016,922, 1–16–62, Cl. 138—94.
Bunnell, Wendell L., to Columbia Iron Mining Co. Gate for diverting materials. 3,018,874, 1–30–62, Cl. 198—69.
Bunnell, William, to Boyar-Schulty Corp. Revolving deep driller. 3,028,771, 4–10–62, Cl. 77—32.3.
Bunney, Le Roy R. Bamboo chipper. 3,062,460, 11–6–62, Cl. 241—92.
Bunning, Ernest J. : *See*—
Chute, Richard, and Bunning. 3,048,915.
Bunny Bear Inc. : *See*—
Linden, Samuel. 3,023,047.
Bunsen, F. E., to Burndy Corp. Supporting trough. 3,022,972, 2–27–62, Cl. 248—68.
Bunt, Edgar A., and H. L. Olsen, to United States of America, Navy. Hypersonic wind tunnel. 3,045,481, 7–24–62 Cl. 73—147.
Buntenbach, Rudolph W., to Bell Telephone Laboratories, Inc. Radiaenergy translation system. 3,069,546, 12–18–62, Cl. 250—83.3.
Buntenbach, Rudolph W., B. V. Carlson, and F. C. Williamson, to General Precision, Inc. Pressure release mechanism. 3,062,574, 11–6–62, Cl. 292—256.65.
Bunting, Albert L. Method of molding plastic articles. 3,015,132, 1–2–62, Cl. 18—48.
Bunting Co., Inc., The : *See*—
Pearlstine, Morton. Re. 25,239.
Pearlstine, Morton. 3,046,053.
Bunting, Ernest V., to Massey-Ferguson Inc. Implement hitch linkage for tractors. 3,049,179, 8–14–62, Cl. 172—10.
Bunting, Ernest V., and H. Rahman, to Massey-Ferguson Inc. Power lift hitch mechanism. 3,022,092, 2–20–62, Cl. 280—479.
Bunting, Ernest V., and G. T. Olson, to Massey-Ferguson Inc. Pressure relief valve for tractor hydraulic systems. 3,068,894, 12–18–62. Cl. 137—514.
Bunting, James W. : *See*—
Hibbert, William, and Bunting. 3,033,000.
Buntpaplerfabrik A.G. : *See*—
Göbel, Johannes. 3,015,574.
Bunts, John L., Jr. : *See*—
Hilgpeil, John J., Thomas, Denise, and Bunts. 3,018,239.
Bunyan, Thomas W., to P. & O. Research and Development Co. Ltd. Valves. 3,032,068, 5–1–62, Cl. 137—637.2.
Buon, Georges A. Flight integrator. 3,060,405, 10–23–62, Cl. 340—26.
Buonanno, Joseph E., and J. C. Shore, to Metro Atlantic, Inc. Slime control agents and disinfectants in paper mill white water. 3,046,185, 7–24–62, Cl. 162—161.
Buono, Joseph A., and R. J. Mascoli. Overhead garage door and screen combination. 3,021,896, 2–20–62, Cl. 160—113.
Burachinsky, Bohdan : *See*—
Czeropski, Robert S., Nocek, and Burachinsky. 3,031,-961.
Burbank, Benjamin B., to Bath Iron Works Corp. Crusher and clearance indicator. 3,035,782, 5–22–62, Cl. 241—89.
Burbank, John E., to Cue Fastener, Inc. Coller with floating mandrel. 3,053,288, 9–11–62, Cl. 140—92.1.
Burbey, Chester P., and H. A. Marble, to Tuck-Aire Furnace Co. Limit control device. 3,062,933, 11–6–62, Cl. 200—81.9.
Burby, Robert W., and F. R. Merriam, Jr., to Ford Motor Co. Dynamoelectric machine. 3,028,514, 4–3–62, Cl. 310—177.
Burby, Robert W., and F. R. Merriam, Jr., to Ford Motor Co. Dynamoelectric machine. 3,041,488, 6–26–62, Cl. 310—238.
Burch, Archie E. Fertilizer spreader. 3,035,740, 5–22–62, Cl. 222—139.
Burch, Elmer C., to Alexander & Baldwin, Inc. Dual chemical spray valve. 3,022,015, 2–20–62, Cl. 239—444.
Burch, Elton W. Table game. 3,064,978, 11–20–62, Cl. 273—119.
Burch, Jack E., M. E. Oakes, and K. L. Racely, to Dover Corp. Automatic loading ramp. 3,064,289, 11–20–62, Cl. 14—71.
Burch, James D. : *See*—
Gilbertson, Louis M., Jones, and Burch. 3,039,454.
Burch, James M. Copying of optical gratings. 3,020,817, 2–13–62, Cl. 95—73.
Burch, James M., to National Research Development Corp. Copying of scales. 3,028,787, 4–10–62, Cl. 88—24.
Burch, Lewis D., to General Motors Corp. Intake manifold. 3,037,493, 6–5–62, Cl. 123—52.
Burch, Oscar G., and W. A. Schaich, to Owens-Illinois Glass Co. Apparatus for and method of manufacturing cellular silicate slabs. 3,028,652, 4–10–62, Cl. 25—122.
Burch, Willie D. Vacuum cleaners. 3,032,955, 5–8–62, Cl. 55—472.

Burcham, Harry L., to Miller Mfg. Co. Rotary feed mills. 3,035,621, 5–22–62, Cl. 146—107.

Burchard, George W., Jr.: *See—*
Gordon, Rollin M., and Burchard. 3,066,062.

Burchett, Paul C. Sanitary cover for beverage cans. 3,029,-973, 4–17–62, Cl. 220—40.

Burchfield, Harry P., and D. K. Gullstrom, to United States of America, Navy. 3,5-dinitro-1,2,4-triazoles and process for preparing same. 3,054,800, 9–18–62, Cl. 260—299.

Burckhardt, Christof, R. Moser, and J. Baumann, to Schweizerische Wagons- und Aufzugefabrik A.-G. Schlieren Zurich. Position indicator. 3,048,818, 8–7–62, Cl. 340—21.

Burckhardt, Christof W., to The Rheostatic Co. Ltd. Automatic control of combustion furnaces. 3,042,107, 7–3–62, Cl. 158—28.

Burckhardt, Manfred H.: *See—*
Mischke, Arthur O., and Burckhardt. 3,058,296.

Burckhardt, Manfred H., to Daimler-Benz Aktiengesellschaft. Transmission including a hydro-dynamic torque converter, particularly for motor vehicles. 3,054,307, 9–18–62, Cl. 74—688.

Burd, Gorman C.: *See—*
Greiman, George Y., and R. D. and R. W. Frye, and Burd. 3,024,677.

Burd, Gorman C. Combined nozzle and valve construction. 3,042,319, 7–3–62, Cl. 239—576.

Burd, L. Paul: *See—*
Ranseen, Mauritz C. 3,023,472.

Burden, Clive A.: *See—*
Cresswell, Robert A., and Burden. 3,064,114.

Burden, Edward R. Rotary mounter. 3,064,716, 11–20–62, Cl. 156—567.

Burdshaw, Thomas A., to Southern States Inc. Electric grounding switch. 3,024,328, 3–6–62, Cl. 200—87.

Burdett, Rhodes B., to International Telephone and Telegraph Corp. Multiplanar printed circuit. 3,039,177, 6–19–62, Cl. 29—155.5.

Burdett, Douglas C. Cement drain tile casting machine. 3,032,853, 5–8–62, Cl. 25—100.

Burdick, Glen A., to Sylvania Electric Products Inc. Image display device. 3,024,385, 3–6–62, Cl. 315—12.

Burdick, Glen A., to Sylvania Electric Products Inc. Image display device. 3,043,975, 7–10–62, Cl. 313—92.

Burdick, Glen A., and M. Krawitz, to Sylvania Electric Products Inc. Cathode ray tube gun construction. 3,024,380, 3–6–62, Cl. 313—70.

Burdick, Ralph V., and R. V. Burdick, Jr. Container with snap-off cover. 3,051,350, 8–28–62, Cl. 220—43.

Burdick, Ralph V., and R. V. Burdick, Jr. Container with snap-off cover. 3,067,906, 12–11–62, Cl. 220—43.

Burdick, Ralph V., Jr.: *See—*
Burdick, Ralph V., and R. V. Burdick, Jr. 3,051,350.
Burdick, Ralph V., and R. V. Burdick, Jr. 3,067,906.

Burdick, Richard. Coin-holders. 3,057,459, 10–9–62, Cl. 206—83.

Burdick, Richard. Numismatic display devices. 3,069,001, 12–18–62, Cl. 206—83.

Burdick, Robert L. Multipurpose electronic timer. 3,056,-053, 9–25–62, Cl. 307—132.

Burdis, William, and F. G. Scott. Newspaper dispensing apparatus. 3,063,597, 11–13–62, Cl. 221—36.

Burdwood, Howard A. Slitting machine. 3,055,248, 9–25–62, Cl. 83—471.

Bureau d'Études Industrielles Fernand Courtoy: *See—*
Zimmer, Frantisek. 3,052,916.

Bureau de Recherches et d'Exploitation de procedes et Brevets: *See—*
Akerib, Eskiel. 3,045,346.

Bureau, Raymond E.: *See—*
Van Sciver, Herbert D., II, Bureau, Bende, and Bowers. 3,061,714.

Bureau, William H.: *See—*
Altmann, Norman A., and Bureau. 3,016,323.

Bures, Joseph A., and C. F. Wapiennik. Means for controlling liquid flow. 3,032,080, 5–1–62, Cl. 141—297.

Burford, Alfred W.: *See—*
Housley, Edward. and Burford. 3,064,848.

Burford, Charles E. and L. W. Wire twisting tool. 3,059,-670. 10–23–62, Cl. 140—149.

Burford, Leonard W.: *See—*
Burford, Charles E. and L. W. 3,059,670.

Burg, Anton B., and R. I. Wagner, to American Potash & Chemical Corp. Phosphinoborine compounds and their preparation. 3,025,326, 3–13–62, Cl. 260—606.5.

Burg, Anton B., and R. I. Wagner, to American Potash & Chemical Corp. Phosphinoborine compounds and their preparation. 3,065,271, 11–20–62, Cl. 260—606.5.

Burg, Fred G., to Burgmaster Corp. Quick setting adjustable stop. 3,037,404, 6–5–62, Cl. 77—34.5.

Burg, Joseph L., to Burgmaster Corp. Temperature compensated hydraulic control device. 3,067,768, 12–11–62, Cl. 137—468.

Burg, Lawrence E. Calculator. 3,045,906, 7–24–62, Cl. 235—70.

Burg Mfg. Co.: *See—*
Nansel, Harold K. 3,055,594.

Burg, Marion, to E. I. du Pont de Nemours and Co. Improved adhesive composition comprising a polyester and a thermal initiator for binding a photopolymerizable layer to a support. 3,036,913, 5–29–62, Cl. 96—67.

Burg, Marion, to E. I. du Pont de Nemours and Co. Polymeric amides and their preparation. 3,043,805, 7–10–62, Cl. 260—72.

Burg, Marion, to E. I. du Pont de Nemours and Co. Photosensitive polyvinyl acetals. 3,068,202, 12–11–62, Cl. 260—66.

Burg, Marion, and A. B. Cohen, to E. I. du Pont de Nemours and Co. Image reproduction processes. 3,060,023, 10–23–62, Cl. 96—28.

Burg, Marion, and A. B. Cohen, to E. I. du Pont de Nemours and Co. Photopolymerization process for reproducing images. 3,060,024, 10–23–62, Cl. 96—28.

Burg, Marion, and A. B. Cohen, to E. I. du Pont de Nemours and Co. Photopolymerization process of image reproduction. 3,060,025, 10–23–62, Cl. 96—28.

Burg, Martin S., to Western Electric Co., Inc. Wired electrical mounting boards. 3,019,489, 2–6–62, Cl. 18—59.

Burgardt, Lothar, W. Pelz, and O. Wahl, to General Aniline & Film Corp. Procedure for the production of yellow dye images by color development. 3,034,891, 5–15–62, Cl. 96—55.

Burge, David E., to Lever Bros. Co. Shipping and display unit. 3,021,948, 2–20–62, Cl. 206—78.

Burgener, Karl L., to Automatic Electric Laboratories Inc. Message waiting indicating circuits. 3,050,592, 8–21–62, Cl. 179—66.

Burgener, Robert C., and A. Finlay, to C. G. Conn Ltd. Tone generator circuits. 3,042,881, 7–3–62, Cl. 331—117.

Burgeni, Alfred A., to Personal Products Corp. Absorbent fibrous structure and method of production. 3,017,304, 1–16–62, Cl. 154—54.

Burgeni, Alfred A., to Personal Products Corp. Sanitary napkin. 3,060,936, 10–30–62, Cl. 128—290.

Burgeni, Alfred A., and J. C. Simkevich, to Johnson & Johnson. Absorbent product. 3,067,745, 12–11–62, Cl. 128—285.

Burger, Alex: *See—*
Lang, Konrad, Burger, Horn, and Nützel. 3,061,627.

Burger, Alfred, to Smith Kline & French Laboratories. Substituted phenylcyclopropylamines. 3,050,559, 8–21–62, Cl. 260—570.5.

Burger, Alvin L. Spray gun attachment. 3,054,509, 9–18–62, Cl. 211—71.

Burger, Erich: *See—*
Baur, Carl, and Burger. 3,055,282.
Baur, Carl, Burger, and Notzl. 3,070,389.

Burger, Ralph J.: *See—*
Mathis, Glenn W., and Burger. 3,044,274.

Burger, Walter, and H. Lübbe, to Flammer Seifenwerke K.G. Process for the treatment of asbestos. 3,065,114, 11–20–62. Cl. 134—25.

Burger, William H., to Kimberly-Clark Corp. Apparatus for forming an edge reinforced non-woven web. 3,025,196, 3–13–62, Cl. 156—426.

Burgermeister Brewing Corp.: *See—*
Sariotti, Victor A., and Tonna. 3,064,663.

Burgerspital, Basel: *See—*
Stingelin, Ernst. 3,047,000.

Burgert, Billy E., to The Dow Chemical Co. Vinyl cyanide/N-vinyl-3-morpholinone copolymers. 3,061,597, 10–30–62, Cl. 260—85.5.

Burgeson, Oscar B.: *See—*
Sidell, Philip A., Kaniwec, and Burgeson. 3,034,280.

Burgess Cellulose Co.: *See—*
Burgess, Jackson. 3,060 782.
Martin, Ray C. 3,036,950.

Burgess, Frank H. Folding box with aligned lid. 3,050,233, 8–21–62, Cl. 229—44.

Burgess, Hovey M., to General Foods Corp. Production of biscuits. 3,024,112, 3–6–62, Cl. 99—2.

Burgess, Jackson, to Burgess Vibrocrafters, Inc. Knife sharpener. 3,052,068, 9–4–62, Cl. 51—59.

Burgess, Jackson, to Burgess Cellulose Co. Punch card device having a fine grain cellulose sponge backing member. 3,060,782, 10–30–62, Cl. 83—658.

Burgess. John R.: *See—*
Burrell, Harry D., and Burgess. 3,068,621.

Burgess, Malcolm S., to Burgess Pigment Co. Treatment of mineral substances. 3,042,320, 7–3–62, Cl. 241—26.

Burgess Micro Switch Co. Ltd.: *See—*
Wright, Duane. 3,045,501.

Burgess-Norton Mfg. Co.: *See—*
Clark, Carlos S. 3,047,146.

Burgess Pigment Co.: *See—*
Burgess, Malcolm S. 3,042,320.

Burgess Products Co., Ltd.: *See—*
Riddell, William, and Holden. 3,065,644.

Burgess, Robert W., to Mite Corp. Zipper foot. 3,024,751, 3–13–62, Cl. 112—235.

Burgess Vibrocrafters, Inc.: *See—*
Burgess, Jackson. 3,052,068.

Burgess, Warren C., Jr. Power control system for pneumatic, free-piston vibration inducing devices. 3,023,738, 3–6–62, Cl. 121—17.

Burgess, William H., Jr., G. L. Calehuff, and F. H. Freuler, to West Virginia Pulp and Paper Co. Control of web disturbances on fourdrinier machines. 3,066,067, 11–27–62, Cl. 162—202.

Burghardt, Stanley I.: *See—*
Pernert, John C., and Burghardt. 3,063,218.

Burgi, Frank: *See*—
Croshier, Walter J., and Burgi. 3,026,622.
Burgin, Kermit H., 25% to F. B. Cline, 20% to F. T. Cline, and 10% to G. Van Ryper, Jr. Water jet drive for boats. 3,046,735, 7–31–62, Cl. 60—35.55.
Burgmaster Corp.: *See*—
Burg, Fred G. 3,037,404.
Burg, Joseph L. 3,067,768.
Burgmeister, John J.: *See*—
Booth, Archibald A. K., Jr., and Burgmeister. 3,063,828.
Burgwin, Stephen L., and C. Green, to Minneapolis-Honeywell Regulator Co. Gas bearing spin motor. 3,027,471, 3–27–62, Cl. 310—74.
Burgy, Raymond A., to Toledo Scale Corp. Elevator controls based on passenger transfers. 3,065,823, 11–27–62, Cl. 187—29.
Burgy, Raymond A., and P. F. De Lamater, to Toledo Scale Corp. Elevator controls. 3,022,864, 2–27–62, Cl. 187—29.
Burgy, Raymord A., and P. F. De Lamater, to Toledo Scale Corp. Elevator controls. 3,065,824, 11–27–62, Cl. 187—29.
Burhans, Ralph W., to The Standard Oil Co. Electric analog interpolation apparatus. 3,050,252, 8–21–62, Cl. 235—179.
Burhans, Ralph W., to The Standard Oil Co. Computing systems. 3,063,637, 11–13–62, Cl. 235—184.
Burhans, Ralph W., and W. Jackson, Jr., to The Standard Oil Co. Transistor thermistor telemetering device. 3,029,642, 4–17–62, Cl. 73—362.
Burhans, Ralph W., W. Jackson, Jr., and P. J. Stevko, to The Standard Oil Co. Simultaneous equation optimal solution computer. 3,048,335, 8–7–62, Cl. 235—180.
Burhop, Emil. Mixing and shutoff valve. 3,028,094, 4–3–62, Cl. 236—12.
Brian, Kurt, to G-M Laboratories Inc. Tachometer generator. 3,047,791, 7–31–62, Cl. 322—34.
Burk, Albrecht: *See*—
Nottebohm, Carl-Ludwig, Schabert, and Burk. 3,035,943.
Burk, Emmett H., Jr.: *See*—
Keith, Carl D., Burk, and Mool. 3,026,268.
Burk, Emmett H., Jr., and O. H. Thomas, to Sinclair Refining Co. Process for activating a noble-metal-alumina-aluminum halide catalyst. 3,041,272, 6–26–62, Cl. 208—139.
Burk, Emmett H., Jr., and B. W. Turnquest, to Sinclair Research, Inc. Process for treating petroleum residuals to remove metal contaminants. 3,044,956, 7–17–62, Cl. 208—252.
Burk, Emmett H., Jr., and J. Mool, to Engelhard Industries, Inc. Method for manufacturing an active catalyst composition. 3,047,514, 7–31–62, Cl. 252—442.
Burk, Le Roy, and V. T. Fenrich, to Combustion Engineering, Inc. Ignition torch on mixed refuse incinerators. 3,064,593, 11–20–62, Cl. 110—8.
Burk, Marvin C.: *See*—
Kindred, Raymond L., and Burk. 3,049,908.
Burk, Marvin C., to Phillips Petroleum Co. Chromatographic analyzer. 3,023,605, 3–6–62, Cl. 73—23.
Burk, Marvin C., to Phillips Petroleum Co. Chromatographic analyzer peak reader. 3,069,895, 12–25–62, Cl. 73—23.
Burka, William T., to Chemetron Corp. Indicating systems for vertical lifting apparatus. 3,036,663, 5–29–62, Cl. 187—9.
Burkall, Alvin E., to Whirlpool Corp. Washing machine having a liquid balancing means. 3,060,713, 10–30–62, Cl. 68—24.
Burkardt, Lohr A., W. G. Finnegan, and R. L. Smith. Chemically produced colored smokes. 3,046,168, 7–24–62, Cl. 149—42.
Burkdoll, John E., and H. L. Vaughn, Jr. Adjustable tandem wheel carriage for farm implements and the like. 3,041,082, 6–26–62, Cl. 280—34.
Burke, Anthony E., to The Glacier Metal Co. Ltd. Machine for testing bearing fatigue strength. 3,060,720, 10–30–62, Cl. 73—7.
Burke, Donald J., to Continental Industries, Inc. Exothermic mold having detachable lower portions. 3,022,554, 2–27–62, Cl. 22—116.
Burke, Emil E. Adjustable toilet seat inner bowl and seat. 3,060,458, 10–30–62, Cl. 4—237.
Burke, George J. Devices for locating oil fill caps or boxes. 3,031,783, 5–1–62, Cl. 40—10.
Burke, George K., to Baxter Laboratories, Inc. Intravenous administration equipment. 3,021,841, 2–20–62, Cl. 128—214.
Burke, Joseph L., and J. F. Sheehan, Jr., to Western Electric Co., Inc. Apparatus for marking articles with a liquid. 3,021,815, 2–20–62, Cl. 118—314.
Burke, Joseph O.: *See*—
Sones, William L., and Burke. 3,059,168.
Burke, Kenneth O., and R. G. Schafer, to Owens-Illinois Glass Co. Flame treating apparatus. 3,048,380, 8–7–62, Cl. 263—2.
Burke, Lawrence F. Object retriever. 3,039,159, 6–19–62, Cl. 24—81.
Burke, Louis L., to Design and Mfg. Corp. Rack structures for dishwashing machines. 3,035,706, 5–22–62, Cl. 211—41.
Burke, Thomas J.: *See*—
Johnson Miles C., and Burke. 3,046,524.
Burke, Thomas J., and M. C. Johnson, to United States of America, Navy. Timing circuit. 3,049,649, 8–14–62, Cl. 317—141.
Burke, Thomas G.: *See*—
Skalwold, Robert N., and Burke. 3,068,581.
Burke, William J.: *See*—
Andrews, Mark B., and Burke. 3,045,883.
Burkes, William M., Jr., to United States of America, Navy. Gas generator utilizing propellant grains. 3,036,432, 5–29–62, Cl. 60—39.47.
Burket, Robert E., W. C. Coy, and L. E. Peterman, to Allegheny Ludlum Steel Corp. Processing magnetic material. 3,024,141, 3–6–62, Cl. 148—100.
Burkett, Albert L. R., and A. T. Sweet, to Colorado Mfg. & Mining Co., Inc. Ore concentrator. 3,065,919, 11–27–62, Cl. 241—161.
Burkett, Francis L., to The Dow Chemical Co. Valve. 3,028,874, 4–10–62, Cl. 137—340.
Burkett, Wilford B., to McCulloch Corp., Marine Products Division. Two-cycle engine idling speed limiter. 3,020,777, 2–13–62, Cl. 74—472.
Burkett, Wilford B., to McCulloch Corp., Marine Products Division. Automatic choke for outboard motors. 3,033,185, 5–8–62, Cl. 123—119.
Burkhammer, Eugene W.: *See*—
Chang, Choh-Yi, and Burkhammer. 3,045,331.
Burkhard, Herbert: *See*—
Dorion, George H., and Burkhard. 3,061,595.
Burkhard, Herbert, and G. H. Dorion, to American Cyanamid Co. Acrylamide foam forming composition and method of forming a foam therefrom. 3,032,516, 5–1–62, Cl. 260—2.5.
Burkhard, Mahlon D., and H. J. Sabine, to Meridan Corp. Piano string and frame assembly. 3,069,955, 12–25–62, Cl. 84—1.16.
Burkhardt, Kenneth J., to Union Tank Car Co. Ion exchange unit. 3,063,565, 11–13–62, Cl. 210—190.
Burkhardt, Louis C.: *See*—
Lovberg, Ralph H., and Burkhardt. 3,047,480.
Burkhardt, Norman C., to Jacoby-Bender, Inc. Bracelet formed of detachable links having resilient pin-retaining means therein. 3,026,670, 3–27–62, Cl. 59—82.
Burkhardt, Norman C., to Jacoby-Bender, Inc. Variable width end attachment. 3,030,686, 4–24–62, Cl. 24—265.
Burkhardt, Otto W. Positive-drive system for textile machine spindles. 3,022,624, 2–27–62, Cl. 57—102.
Burkhart, Reginald K., W. J. Vogel, and J. M. Black, to Reynolds Metals Co. Method of manufacturing polyvinyl chloride wrapping web. 3,032,147, 6–19–62, Cl. 18—57.
Burkholder, Ward J., to Diamond Alkali Co. Polymerization of vinyl chloride. 3,049,521, 8–14–62, Cl. 260—87.1.
Burkholder, Ward J., and E. R. Henderson, to Diamond Alkali Co. Chemical composition and process for polymerizing halogen-containing monomers. 3,054,786, 9–18–62, Cl. 260—92.8.
Burkin, Alfred R., B. Meddings, and H. D. Sawyer, to National Research Development Corp. Treatment of columbite and related minerals. 3,061,407, 10–30–62, Cl. 23—18.
Burkland, Charles W., to The Maytag Co. Tub assembly. Re. 25,157, 4–10–62, Cl. 68—23.
Bürklin, Gerlinde, and E. Kasten, to Siemens-Schuckertwerke Aktiengesellschaft. Method for producing bodies of preferably non-linear polyatomic synthetics. 3,043,760, 7–10–62, Cl. 204—162.
Burklund, Glenn A., and D. R. Dellinger, to American Machine & Foundry Co. Expanded-scale R.M.S. meter with harmonic compensation. 3,024,415, 3–6–62, Cl. 324—131.
Burkman, Albin J., to General Motors Corp. Vehicle-drum brake. 3,027,980, 4–3–62, Cl. 188—78.
Burks, Howard L., and T. E. Stewart, Jr. Dispenser apparatus. 3,045,719, 7–24–62, Cl. 141—104.
Burks, Oliver W., Jr.: *See*—
Jeuken, Rene G. 3,038,868.
Burleigh, John E.: *See*—
Uraneck, Carl A., and Burleigh. 3,062,791.
Burleson, Aaron, to Burlington Industries, Inc. Knitting method and resultant article. 3,055,197, 9–25–62, Cl. 66—125.
Burleson, Aaron, to Burlington Industries, Inc. Knitting machine with means to heat yarn enroute to the needles. 3,055,198, 9–25–62, Cl. 66—125.
Burleson, Aaron, and M. N. Holmes, to Burlington Industries, Inc. Compressive fabric. 3,069,883, 12–25–62, Cl. 66—178.
Burley, Billy, to Fischbach and Moore, Inc. Hydraulic actuator. 3,046,743, 7–31–62, Cl. 60—52.
Burlington Industries, Inc.: *See*—
Atwell, Everett C. 3,030,230.
Atwell, Everett C. 3,060,070.
Atwell, Everett C. 3,060,078.
Burleson, Aaron. 3,055,197.
Burleson, Aaron. 3,055,198.
Burleson, Aaron, and Holmes. 3,069,883.
Cundiff, Joseph C. 3,036,448.
Hyder, Clarence R., Jr., and Vestal. 3,020,835.
Lowe, John J., and Thomas. 3,051,306.
Payne, William M., Jr. 3,059,457.
Payne, William M., Jr. 3,068,675.
Swaney, James B. 3,026,597.
Upshur, Littleton. 3,034,336.
Upshur, Littleton. 3,046,076.
Burmeister, Albert J., W. D. Brown, Jr., and D. J. Heidinger, to Richards-Wilcox Mfg. Co. Automatic dispatch conveyor systems. 3,048,123, 8–7–62, Cl. 104—88.

Burmeister, Albert J., and W. D. Brown, Jr., to Richards-Wilcox Mfg Co. Conveyor system and control. 3,056,360, 10–2–62, Cl. 104—96.
Burmeister, Frederick, to Seaporcel Metals, Inc. Translucent building panels. 3,024,880, 3–13–62, Cl. 189—64.
Burn, Derek, D. N. Kirk, V. Petrow, and G. O. Weston, to The British Drug Houses Ltd. Process for introducing Δ^1 unsaturation into steroids. 3,023,206, 2–27–62, Cl. 260—239.55.
Burn, Philip H. Marine toilet system. 3,024,468, 3–13–62, Cl. 4—77.
Burndept Ltd.: *See*—
McLennan, Kenneth C. 3,064,067.
Burndy Corp.: *See*—
Anderson, James D., and Cheh. 3,021,738.
Baschkin, Bernard B. 3,054,078.
Bertram, Joseph J., and Antes. 3,031,638.
Bertram, Joseph J., and Canevari. 3,054,081.
Bonwitt, Wilhelm F., and Dupre. 3,065,440.
Bunston, Roy F. E. 3,022,972.
Chickvary, William S. 3,065,292.
Dibner, David. 3,055,412.
Dupre, Henry P. 3,025,492.
Fieberg, Russell F. 3,065,450.
Greco, Peter. 3,069,652.
Lazar, Michael, and Bertram. 3,028,575.
Liker, Jack. 3,030,473.
Mallanik, Allan R., Neaderland, Osborn, and Raila. 3,053,930.
Margolies, Samuel L. 3,052,868.
Matthysse, Irving F. 3,019,284.
Matthysse, Irving F., and Raila. 3,065,449.
McLeod, Donald W. 3,035,800.
Noschese, Rocco J. 3,034,090.
Osborn, William G. 3,022,370.
Osborn, William G. 3,045,205.
Osborn, William G. 3,065,452.
Rogoff, Julian. 3,052,867.
Wicks, Grace I. 3,040,289.
Burnel, Philippe. Reducing machine. 3,066,555, 12–4–62, Cl. 78—24.
Burnell, Floyd E., to Kelsey-Hayes Co. Operating tool for spring clip. 3,017,692, 1–23–62, Cl. 29—229.
Burner, Andre H., and R. T. Sykes, to The French Oil Mill Machinery Co. Recovery of juice from sucrose bearing materials. 3,037,445, 6–5–62, Cl. 100—72.
Burner, Eugene L., to United States of America, Interior. Method and apparatus for determining rate of pressure change. 3,054,295. 9–18–62, Cl. 73—391.
Burness, Donald M.: *See*—
Jeffreys, Roy A., and Tabor. 3,062,652.
Burness, Donald M., K. C. Kennard, and B. C. Cossar, to Eastman Kodak Co. Sulfone bis-quaternary salts as sensitizers for photographic emulsions. 3,061,437, 10–30–62, Cl. 96—108.
Burnett, Edward N., to Gerber Products Co. Cases for containers severable to form trays. 3,043,490, 7–10–62, Cl. 229—15.
Burnett, Edward N., to Gerber Products Co. Disposable baby pants. 3,049,228, 8–14–62, Cl. 206—58.
Burnett, Edward N., R. C. Cross, and L. G. Tuttle, to Gerber Products Co. Probe device. 3,040,909, 6–26–62, Cl. 214—1.
Burnett, Eugene J., to Renco, Inc. Outside defroster for heat pumps. 3,024,620, 3–13–62, Cl. 62—278.
Burnett, Harvey L. Fishhook assembly. 3,026,645, 3–27–62, Cl. 43—37.
Burnett, Joel M., to Barlett-Snow-Pacific, Inc. Mold conveying system. 3,029,482, 4–17–62, Cl. 22—20.
Burnett, John S., and G. C. Reinhold, to Ashworth Bros., Inc. Conveyor drive apparatus. 3,033,353, 5–8–62, Cl. 198—203.
Burnett, Richard T., to The Bendix Corp. Brake. 3,021,923, 2–20–62, Cl. 188—78.
Burnett, Richard T., to The Bendix Corp. Automatic positioning device. 3,032,143, 5–1–62, Cl. 188—70.
Burnett, Richard T., to The Bendix Corp. Improvement for disk brake structure. 3,051,272, 8–28–62, Cl. 188—73.
Burnett, Richard T., to The Bendix Corp. Auxiliary brake applying mechanism. 3,064,763, 11–20–62, Cl. 188—72.
Burnham, Clarence W., to The Fellows Gear Shaper Co. Injection molding machine with cushioning device. 3,036,337, 5–29–62, Cl. 18—30.
Burnham, Hartley M.: *See*—
Carlton, William W., and Burnham. 3,044,258.
Burnham, James K. Differential. 3,066,551, 12–4–62, Cl. 74—650.
Burnham, Walter E., to McCauley Industrial Corp. Controllable pitch propeller. 3,053,267, 9–11–62, Cl. 137—56.
Burniski, Anthony J., to Prince Gardner Co., Inc. Expandible closure device. 3,029,854, 4–17–62, Cl. 150—39.
Burns, Alan N.: *See*—
Hirst, Arthur A., and Burns. 3,058,488.
Burns, Charles, to The British Iron & Steel Research Assn. Optical measurement of objects. 3,031,916, 5–1–62, Cl. 88—14.
Burns, Claude H.: *See*—
Wyman, Burton A., and Burns. 3,035,802.
Burns, David H.: *See*—
Leavitt, Minard A., Pecker, and Burns. 3,046,336.
Burns, Frederick B., to McGraw-Edison Co. Method and apparatus for recovering a congealed saturant from scrap materials. 3,023,694, 3–6–62, Cl. 100—93.
Burns, Harold: *See*—
Chappell, Edgar R. R., and Burns. 3,018,963.
Burns, Harold W., and R. D. Slockett, to E. I. du Pont de Nemours and Co. Production of di-hydroxyethyl terephthalate. 3,062,862, 11–6–62, Cl. 260—475.
Burns, Jabez, & Sons, Inc.: *See*—
Willenborg, Walter J. 3,061,826.
Burns, Jerome G., to International Resistance Co. Apparatus and method for banding elongated cylindrical objects. 3,043,721, 7–10–62, Cl. 117—212.
Burns, John R., to American Can Co. Folded sheet. 3,047,141, 7–31–62, Cl 206—57.
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Burns, Kay N., and J. D. Skelton, to Jersey Production Research Co. Seismic signal display system. 3,058,110, 10–9–62, Cl. 346—33.
Burns, Kay N., and W. L. Ikard, to Jersey Production Research Co. System for extracting information from complex signals by delaying pulses indicative of the characteristics of such signals. 3,070,749, 12–25–62, Cl. 328—177.
Burns, Leonard S.: *See*—
Barber, Harry A., Burns, and Roots. 3,016,632.
Sauer, James F., and Burns. 3,015,971.
Burns, Louis G., to Chandler-Evans Corp. Compound centrifugal and gear fuel pump. 3,026,929, 3–27–62, Cl. 158—36.4.
Burns, Malachy T., to United States of America, Atomic Energy Commission. Identification badge with detachable clip. 3,054,201, 9–18–62, Cl. 40—1.5.
Burns, Patricia L., and L. Luft, to MSA Research Corp. Method of making a chromatographic packing. 3,065,185, 11–20–62, Cl. 252—428.
Burns, Ray S., A. F. Rhodes, and R. Eichenberg, to McEvoy Co. Tubing suspension. 3,059,698, 10–23–62, Cl. 166—75.
Burns, Robert S.: *See*—
Foley, Matthew J., and Burns. 3,057,056.
Burns, Robert T., to Westinghouse Electric Corp. Luminaire guard. 3,033,982, 5–8–62, Cl. 240—102.
Burns, Robert V.: *See*—
Cleary, Robert T., Burns, and Huckstadt. 3,028,452.
Burns & Russell Co. of Baltimore City, The: *See*—
McClinton, John L. 3,030,234.
Burns, Thomas H. Inflatable and collapsible canopy. 3,053,-266, 9–11–62, Cl. 135—20.
Burns, William E., to Curtiss-Wright Corp. Friction gear type variable speed transmission. 3,019,664, 2–6–62, Cl. 74—199.
Burnside, Charles H., to Phillips Petroleum Co. Combination liquid and solid propellant spin-stabilized rocket motor. 3,017,748, 1–23–62, Cl. 60—35.6.
Burnstein, Harry, to E. Mirman. Collapsible ladder. 3,025,-925, 3–20–62, Cl. 182—96.
Burnthall, Edward V.: *See*—
Hirshfeld, Julian J., and Burnthall. 3,047,425.
Buro, Paul, to North American Philips Co., Inc. Spark discharge electro-erosion apparatus. 3,067,317, 12–4–62, Cl. 219—69.
Buron, Oskar, to Siemens-Schuckertwerke Aktiengesellschaft. Compressed-gas circuit interrupters. 3,052,783, 9–4–62, Cl. 200—148.
Burr, Francis K., and J. S. Panto, to United Merchants and Manufacturers, Inc. Process for applying crease resistant finishes to cellulosic fabrics and products thereof. 3,043,-719, 7–10–62, Cl. 117—139.4.
Burr, Harvey, to Anaconda Wire and Cable Co. Apparatus and process for insulating and twisting strands. 3,053,037, 9–11–62, Cl. 57—12.
Burr, Robert L. Jump rope. 3,061,307, 10–30–62, Cl. 272—75.
Burr, Robert P., to Printed Motors, Inc. Printed circuit armature. 3,023,335, 2–27–62, Cl. 310—268.
Burr, Robert P., and R. J. Keogh, to Printed Motors, Inc. Printed circuit armature. 3,023,334, 2–27–62, Cl. 310—268.
Burr, Robert P., and R. J. Keogh, to Circuit Research Co. Electro-optical system. 3,044,695, 7–17–62, Cl. 235—61.11.
Burrell, Edward J., to Avdel Ltd. Blind rivet with internal mandrel supporting element. 3,055,255, 9–25–62, Cl. 85—40.
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Burridge, Frederick J., and B. R. Waddington, to Woodall-Duckham Construction Co. Ltd. Car loading apparatus. 3,066,809, 12–4–62. Cl. 214—41.
Burrill, Ernest A., to High Voltage Engineering Corp. Scanning in radiography. 3,056,025, 9–25–62, Cl. 250—65.
Burris, Leslie, Jr.: *See*—
Martin, Allan E., Johnson, Burris, Winsch, and Feder. 3,063,830.
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Alrich, John C., and Hartke. 3,022,006.
Ammon, Richard C. 3,057,550.
Auerbach, Isaac L. 3,045,211.
Austin, Kenneth L. 3,069,666.
Baird, George A., and Dowds. 3,069,078.
Baker, Corwin W., Brumby, Christensen, and Sillars. 3,030,038.
Baker, John F., Gelletich, and Wasylenko. 3,060,277.
Barnes, Percy J. 3,065,355.
Basharrah, William J. 3,019,370.
Benn, Robert E. 3,023,070.
Benn, Robert E., Howell, and Sakurai. 3,068,479.
Bennion, David R. 3,034,108.
Bittmann, Eric E. 3,023,402.
Boretzke, Irvin W., and Blankenship. 3,049,289.
Bottrell, Richard H. 3,035,834.
Bradshaw, Robert S. 3,070,204.
Bradshaw, Robert S., and Lessig. 3,048,394.
Brown, Joseph R., Jr. 3,047,730.
Brown, Joseph R., Jr., and Hartke. 3,070,800.
Brown, Robert S., and Ott. 3,068,367.
Campbell, Carl M., Jr. 3,023,965.
Campbell, Carl M., Jr. 3,025,417.
Campbell, Carl M., Jr. 3,042,814.
Campbell, Carl M., Jr. 3,042,815.
Campbell, Carl M., Jr. 3,050,714.
Castagliuolo, Ernest M. 3,019,504.
Clark, Edward G. 3,051,848.
Clark, Ralph H. 3,017,372.
Colwill, Richard H., and Levine. 3,023,123.
Crane, Hewitt D. 3,030,519.
Crane, Hewitt D. 3,039,220.
Crane, Hewitt D. 3,049,696.
Crane, Hewitt D., and Bennion. 3,026,421.
Crane, Hewitt D., Bennion, and Heinzmann. Re. 25,148.
Crane, Hewitt D., Bennion, and Heinzmann. 3,037,198.
Cruzen, Larry L. 3,023,345.
Cullis, John, Jr. 3,016,473.
Deighton, William W. 3,062,134.
Devaud, Albert J. 3,029,409.
Di Mino, Alfonso. 3,045,933.
Engelman, Joseph H. 3,031,595.
Ferguson, Ronald W., and Low. 3,025,787.
Forman, Jan. 3,056,912.
Frederick, Harold M. 3,067,886.
Fux, Aime, and Kaplan. 3,041,067.
Gellert, Alvin W. 3,025,502.
Gellert, Alvin W. 3,046,452.
Glaser, David. 3,022,442.
Glaser, David. 3,032,678.
Glaser, David, and Bethke. 3,064,160.
Glaser, David, and Somlyody. 3,031,594.
Gonzales, Frank H., and Eisemann. 3,037,447.
Goodwin, Mack C. 3,044,724.
Greenblatt, Richard C. 3,049,650.
Hanstein, Walter. 3,052,351.
Hanstein, Walter, and McKnight. 3,062,537.
Hanstein, Walter, Jr., and Jones. 3,057,552.
Hardtuk, John, and Lessig. 3,019,316.
Hebeler, Charles B. 3,052,352.
Heddendorf, George B., and Speh. 3,018,887.
Heidler, Glen R. 3,048,806.
Heidler, Glen R. 3,048,812.
Heidler, Glen R. 3,070,729.
Henderson, Robert R. 3,035,677.
Hennessey, William M. 3,051,291.
Hennessey, William M. 3,070,648.
Hespenheide, Wilbur G. 3,047,475.
Hoberg, George G., Mott, Van Andel, and Weise. 3,053,449.
Hoberg, George G., Van Andel, and Veitch. 3,050,717.
Hoffman, Paul R. 3,046 407.
Holladay, Forrest E. 3,064,886.
Howard, John H. 3,051,836.
Jones, John P. 3,023,387.
Jones, John P. 3,030,697.
Jones, John P. 3,068,437.
Jones, Richard H. Marczak, and Funk. 3,038,442.
Kelchner, Harley E. 3,056,030.
Kelchner, Harley E. 3,068,444.
Kondur, Nicholas, Jr. 3,063,624.
Kornfield, Nathaniel R. 3,024,446.
La Patka, Lawrence T., and Mayer. 3,027,526.
Leathers, Ward. 3,051,309.
Lee, Donald H. Re. 25,235.
Lee, Edwin S., III. 3,044,044.
Leshner, Ervin. 3,037,181.
Loev, David. 3,023,401.
Lynch, John T. 3,058,007.
Marcovitz, Morton W., and Hanstein. 3,052,350.
Mathamel, Flavius A. 3,070,292.
McCauley, John H. 3,067,355.
McCauley, John H., and Gavurnik. 3,042,826.
Mintz, Leon J., and Yii. 3,051,852.
Misbin, Ted J., Tarbuck, and Solyst. 3,032,339.
Monticello, William A., and Yesowich. 3,018,721.
Moore, Michael J. 3,035,254.
Moss, Hilary. 3,033,446.
Moss, Hilary. 3,041,611.
Mueller, Lawrence E. 3,025,593.
Naab, Gerard A., and Sarlo. 3,058,037.

Burroughs Corp.: *See*—Continued
Ogle, James A. 3,041,462.
Palasciano, Felice V. 3,022,907.
Pasinski, Arthur M. 3,052,503.
Pasinski, Arthur M., and Siegel. 3,042,294.
Pedersen, John H. 3,046,538.
Peterson, Thomas D. 3,067,354.
Phelan, Roy L., Minard, and Lockey. 3,028,956.
Rosenberg, Harvey. 3,038,088.
Runde, Byron A., and Boretzke. 3,021,053.
Runde, Byron A., and Boretzke. 3,023,951.
Runde, Byron A., and Lishock. 3,027,992.
Schneider, Stanley. 3,058,083.
Siegel, Martin. 3,039,385.
Smith, John G. 3,061,304.
Solyst, Erik R. 3,027,161.
Sprude, Edgar O. 3,065,384.
Tarbuck, Robert R. 3,016,433.
Tarbuck, Robert R. 3,042,397.
Templeton, William B., and Howard. 3,029,075.
Thomas, James A. 3,023,952.
Thomas, James A. 3,057,536.
Thompson, Lyle G. 3,025,501.
Thut, Paul J., and Beachner. 3,020,841.
Tillman, Robert M. 3,032,663.
Tompkins, Howard E. 3,070,788.
Van Auker, John B. 3,069,560.
Wolfe, Roger W. 3,032 676.
Wolfe, Roger W., and Glaser. 3,028,520.
Wylen, Joseph. 3,041,581.

Burroughs, Mortimer P., Jr.: *See*—
Palmer, John A., and Burroughs. 3,023,792.

Burroughs, Ralph L., Jr., and M. Levine, to Midland-Ross Corp. Viscose spinning solution and process. 3,046,085, 7–24–62, Cl. 18—54.

Burroughs Wellcome & Co. (U.S.A.) Inc.: *See*—
Baltzly, Richard, Russell, and Mehta. 3,065,230.
Barrett, Paul A., Calder, and Walls. 3,041,341.
Copp, Frederick C. 3,054,801.
Copp, Frederick C., and Stephenson. 3,037,910.
Copp, Frederick C., and Stephenson. 3,038,004.
Hitchings, George H., and Bieber. 3,019,164.
Hitchings, George H., and Elion. 3,056,785.
Hitchings, George H., and Goodman. 3,050,517.
Hitchings, George H., Elion, and Mackay. 3,019,224.
Hitchings, George H., Ledig, and West. 3,037,980.
Hitchings, George H., and Robins. 3,021,332.
Murfitt, Harry C. 3,019,255.
Phillips, Arthur P. 3,056,786.
Phillips, Arthur P., and Mentha. 3,046,301.
Stenbuck, Paul, and Hood. 3,049,544.
Timmis, Geoffrey M., Hudson, Marshall, and Bierman. 3,041,241.
Wilkinson, Samuel. 3,044,934.

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Burrows, Allen. Pulley removing device. 3,059,327, 10–23–62, Cl. 29—258.

Burrows, Arthur T. C., to Geo. W. King Ltd. Conveyor systems. 3,027,859, 4–3–62, Cl. 104—172.

Burrows, Arthur T. C., to Geo. W. King Ltd. Lubrication of conveyors. 3,031,033, 4–24–62. Cl. 184—15.

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Burrows, Arthur T. C., to Geo. W. King, Ltd. Chains for use in conveyor systems. 3,056,308, 10–2–62, Cl. 74—254.

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Burrows, Arthur T. C., to Geo. W. King Ltd. Lubrication of conveyor chains. 3,067,837, 12–11–62, Cl. 184—15.

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Burrows, Harry J., and M. M. Blonchek, to The Standard Oil Co. Material transfer system stoppage warning device. 3,058,102, 10–9–62, Cl. 340—239.

Burrows Lewis M., to Maxwell Manning & Moore, Inc. High pressure seal. 3,046,026, 7–24–62, Cl. 277—171.

Burrows, Thomes J. Dilled celery. 3,063,847, 11–13–62, Cl. 99—186.

Burrows, Walter H.: *See*—
Bradley, James W., Elston, and Burrows. 3,033,793.

Burrows, William M. Amusement device. 3,069,805, 12–25–62, Cl. 46—16.

Burski, Leonard J. G., to The Superior Electric Co. Illuminating control apparatus and method. 3,060,347, 10–23–62, Cl. 315—316.

Burski, Leonard J. G., to The Superior Electric Co. Electric motor positioning control circuit. 3,068,388, 12–11–62, Cl. 318—29.

Burson, Bayard T.: *See*—
Temple, Foy J., and Burson. 3,031,655.

Burst, Francis J.: *See*—
Hillenbrand, William A., and Burst. 3,065,334.

Burstow, Pierre, and C. Monin, to Compagnie Industrielle des Telephones. Electronically locking selection device. 3,048,821, 8–7–62, Cl. 340—166.

Burstow, Pierre, and C. Monin, to Compagnie Industrielle des Telephones. Electronic marking device. 3,065,306, 11–20–62, Cl. 179—18.

Bursztyn, Ignacy: *See*—
Katchalsky, Aharon, Bursztyn, Rim, and Vofsi. 3,019,557.

Burt, Donald A., and C. A. Booker, Jr., to Westinghouse Electric Corp. Frequency sensitive control circuit. 3,069,558, 12–18–62, Cl. 307—88.5.

Burt, F. N., Co., Inc.: *See*—
Perkins, William 3,016,174.

Burt, Farlow B., to The Bendix Corp. Variable displacement pump. 3,064,583, 11–20–62, Cl. 103—161.

Burt, George H., to The Celotex Corp. Manufacture of gypsum board. 3,050,104, 8–21–62, Cl. 156—347.

Burt, Harry B., and P. E. Walter, to Malt-A-Plenty, Inc. Method and apparatus for coating food articles. 3,036,533, 5–29–62, Cl. 107—54.

Burt, Harry B., Jr., and P. E. Walter, to Malt-A-Plenty, Inc. Serving-portion producing apparatus. 3,029,750, 4–17–62, Cl. 107—8.

Burt, John: *See*—
Spoehr, Thomas F., and Burt. 3,065,662.

Burt Machine Co., Inc.: *See*—
Neer, Clifford H. 3,067,556.

Burt, Reynold B., and J. C. Barber, to Tennessee Valley Authority. Phosphorus burner assembly. 3,050,374, 8–21–62, Cl. 23—277.

Burt, Robert V., to The Procter & Gamble Co. Container sorting apparatus. 3,018,873, 1–30–62, Cl. 198—38.

Burt, Robert V., to The Procter & Gamble Co. Method of forming collapsed carton blank. 3,049,059, 8–14–62, Cl. 93—36.6.

Burt, Robert V., V. E. Gex, and A. Bart, to The Procter & Gamble Co. Machine for forming lined packages. 3,041,806, 7–3–62, Cl. 53—172.

Burtch, Fred W.: *See*—
Parks, Christ F., Strassner, and Burtch. 3,067,134.

Burtek, Inc.: *See*—
Koch, John H. 3,040,444.
Mitchell, Charles R. 3,025,613.
Zeigler, John M. 3,030,464.
Zeigler, John M. 3,049,381.

Burtnett, Everett R., to Borg-Warner Corp. Transmission mechanism. 3,020,781, 2–13–62, Cl. 74—688.

Burton, Alvin R., and J. A. Nava, to The Pyle-National Co. Electrical connector with pop-in current-continuing means. 3,029,407, 4–10–62, Cl. 339—60.

Burton, Charles G., to Chisholm-Ryder Co., Inc. Bean cluster separator. 3,059,648, 10–23–62, Cl. 130—30.

Burton, Edward F., to Douglas Aircraft Co., Inc. Cargo handling means for airplanes. 3,028,130, 4–3–62, Cl. 244—118.

Burton, Elwin E., to C. W. Montgomery. Plastic storm window assembly or the like. 3,025,906, 3–20–62, Cl. 160—329.

Burton, Joe M.: *See*—
Henderson, Charles B., and Burton. 3,041,835.

Burton, John E. Self-operating floating duck for varying level waters. 3,030,947, 8–28–62, Cl. 61—48.

Burton, John R., and R. J. Mackin, to McDonnell Aircraft Corp. Guidance system. 3,028,807, 4–10–62, Cl. 102—49.

Burton Parsons Chemicals, Inc.: *See*—
Friedman, Nathan H. 3,027,333.

Burton, Ralph M.: *See*—
Frenkel, Marvin A., and Burton. 3,024,557.

Burton, Raymond: *See*—
Wilkinson, Geoffrey, and Burton. 3,064,023.

Burton, Robert W.: *See*—
Denil, Norbert J., and Burton. 3,059,499.

Burton, Robert W., and E. Sich, to General Motors Corp. Drive shaft bearing support. 3,047,345, 7–31–62, Cl. 308—28.

Burton, Russell A., to Hyde Mfg. Co. Protective package for tools having blades. 3,067,866, 12–11–62, Cl. 206—46.

Burtonwood Engineering Co. Ltd.: *See*—
Vernon, Kenneth S. 3,049,355.

Burtt, Jack R., R. D. Palino, and K. Staiger, to Stewart-Warner Corp. Brazed plate and ruffled fin heat exchanger. 3,047,271, 7–31–62, Cl. 257—245.

Burwell, Edith B., and A. D. Evans. Infant's wearing apparel. 3,025,856, 3–20–62, Cl. 128—288.

Bury, Elmer J.: *See*—
Elliott, Eugene W., and Bury. 3,049,981.

Bury, Harry, to The General Electric Co. Ltd. Dehumidifiers. 3,024,616, 3–13–62, Cl. 62—3.

Bury, Harry, R. Claydon, and R. Smith, to The General Electric Co. Ltd. Thermoelectric cooling devices. 3,018,631, 1–30–62, Cl. 62—3.

Burzlaff, Karl H., to Ritter Co., Inc. Locking mechanism for mobile units. 3,051,270, 8–28–62, Cl. 188—

Burzlaff, Karl H., to Ritter Co., Inc. Caster mechanism and locks therefor. 3,055,042, 9–25–62, Cl. 16—35.

Burzlaff, Karl H., and A. Comper, to Ritter Co., Inc. Surgical table. 3,041,120, 6–26–62, Cl. 311—7.

Busby, John C., and C. Retzky. Temperature indicators. 3,055,759, 9–25–62, Cl. 99—192.

Buscall, David C., Jr., to United States of America, Army. Aerial wire dispenser. 3,054,574, 9–18–62, Cl. 242—129.

Buscemi, Vincent J. Method of ornamenting glass. 3,039,283, 6–19–62, Cl. 67—22.5.

Busch, Alfred E., to Keuffel & Esser Co. Measuring tape. 3,041,004, 6–26–62, Cl. 242—107.3.

Busch, Andreas, to Stahl-und Walzwerke Rasselstein/Andernach, AG. Method of hot-dip metallising metal strips 3,066,041, 11–27–62, Cl. 117—51.

Busch, Arthur F. Container for gasoline. 3,039,648, 6–19–62, Cl. 220—63.

Busch, Donald F., to International Business Machines Corp. Stepping motor. 3,042,818, 7–3–62, Cl. 310—49.

Busch, Floyd H., and F. H. Sawada, to General Electric Co. Temperature control systems. 3,018,356, 1–23–62, Cl. 219—20.

Busch, Floyd H., and F. H. Sawada, to General Electric Co. Temperature control systems. 3,051,813, 8–28–62, Cl. 219—20.

Busch, Irving, and N. G. Tucker. Hat-finishing machine. 3,028,057, 4–3–62, Cl. 223—20.

Busch, Ralph R.: *See*—
Charles, David H., Benjamin, Grigsby, and Busch. 3,069,979.

Busch, Richard D., to Scott Paper Co. Vacuum forming molds. 3,058,153, 10–16–62, Cl. 18—19.

Busch, Richard E.: *See*—
Scozzafava, Milton V., Linn, Busch, and Boyden. 3,017,081.
Scozzafava, Milton V., Linn, Busch, and Boyden. 3,064,892.

Busch, Richard E., to Clary Corp. Strip feeding device. 3,034,692, 5–15–62, Cl. 226—59.

Busch, Richard E., and C. A. Christoff, to Clary Corp. Paper feeding apparatus. 3,028,063, 4–3–62, Cl. 226—76.

Busch, Thomas N., to International Paper Co. Soil stabilization and seeding. 3,017,720, 1–23–62, Cl. 47—58.

Busch, Thomas N., ½ to D. W. and B. E. Jasper. Log handling apparatus. 3,033,297, 5–8–62, Cl. 214—501.

Busch, Thomas N., and D. W. and B. E. Jasper. Timber harvester and method of use. 3,059,677, 10–23–62, Cl. 144—309.

Busch, William A.: *See*—
Reetz, Theodor, Busch, and Chadwick. 3,057,904.

Busch, William C. Golf club. 3,037,775, 6–5–62, Cl. 273—171.

Busch, William H.: *See*—
Sporck, Claus L., and Busch. 3,065,473.

Buschbom, Floyd E., to Vandale Corp. Unloader. 3,017,043, 1–16–62, Cl. 214—17.

Busche, Francis X. Resistance welding gun. 3,066,216, 11–27–62, Cl. 219—89.

Buschhorn, Walther, and F. Stein, to Klein, Schanzlin & Becker Aktiengesellschaft. Rotary pumps without shaft packing. 3,060,861, 10–30–62, Cl. 103—87.

Busche, Zacharias: *See*—
Buchi, Walter, and Buschle. 3,057,121.

Buschmann, Karl: *See*—
Steinhofer, Adolf, Buschmann, and Unterstenhoefer. 3,054,839.

Buselli, Alio J.: *See*—
Lowrey, Dalbur I., Latimer, and Buselli. 3,049,522.

Buselli, Alio J., and S. Ariemma, to Air Reduction Co., Inc. Vinyl acetate copolymers. 3,018,274, 1–23–62, Cl. 260—80.5.

Buser, Rudolf, to Siemens & Halske Aktiengesellschaft Berlin and Munich. Conversion of decimal-coded binary numbers into decimal numbers. 3,026,509, 3–20–62, Cl. 340—347.

Busey, James D., to Besly-Welles Corp. Grinder control means. 3,049,112, 8–14–62, Cl. 125—11.

Busey, James D., J. L. Garnett, K. A. Hill, and S. M. Napp, to Besly-Welles Corp. Grinder. 3,063,203, 11–13–62, Cl. 51—111.

Bush, Chandler L.: *See*—
Moracco, Joseph J., and Bush. 3,020,012.

Bush, Eric L., to International Standard Electric Corp. Purification of gases used in the production of silicon. 3,019,135, 4–10–62, Cl. 23—223.5.

Bush, Grace: *See*—
Renwick, Frederick W., Sr., and Bush. 3,036,452.

Bush, Harold E.: *See*—
Foster, Lawrence H., and Bush. 3,058,320.

Bush, Harry D., and R. L. Shepard, to Union Carbide Corp. Head for thermoelectric device. 3,060,251, 10–23–62, Cl. 136—4.

Bush, Howard G., to Brooks Products, Inc. Access and protective cover for valves, meters, manholes and the like. 3,025,774, 3–20–62, Cl. 94—34.

Bush, John P., and J. A. Scott, to Olin Mathieson Chemical Corp. Article and method of forming. 3,055,399, 9–25–62, Cl. 138—157.

Bush, Nyle E.: *See*—
Lide, Basil M., and Bush. 3,069,545.

Bush and Rank Cintel Ltd.: *See*—
Baldwin, John L. E. 3,067,284.
Nuttall, Thomas C. 3,049,275.

Bush, Rankin J.: *See*—
Logan, John W., Jr., and Bush. 3,068,900.
Bush, Rankin J., to Westinghouse Air Brake Co. Railway switch control apparatus. 3,015,464, 1–2–61, Cl. 246—258.
Bush, Vannevar, to Carnegie Institution of Washington. Process of forming a sheet from glass fragments and plastic. 3,034,945, 5–15–62, Cl. 156—33.
Bush, Warren V., and G. Holzman, to Shell Oil Co. Alkali metal-catalyzed olefinic condensation. 3,028,441, 4–3–62, Cl. 260—683.15.
Bushmeyer, Richard W., and F. J. Vaughn, to J. I. Case Co. Agricultural implements. 3,043,378, 7–10–62, Cl. 172—754.
Bushnell, Raymond O. Safety socket meter gripper. 3,044,158, 7–17–62, Cl. 29—278.
Bushnell, Robert H., and V. J. Chimera, to Goodyear Aircraft Corp. Aircraft collision warning system. 3,019,434, 1–30–62, Cl. 343—101.
Bushnell, Sterling S., Jr.: *See*—
Anderson, James A., and Bushnell. 3,018,824.
Bushong, Forest B. Egg case. 3,030,161, 4–17–62, Cl. 312—31.01.
Bushong, Forest B., to Shaffer Manufacturers, Inc. Egg handling apparatus. 3,062,578, 11–6–62, Cl. 294—65.
Bushong, Lloyd B., R. N. Kennedy, and P. H. Lipke, to The Dow Chemical Co. Bonding thermosetting resins to polystyrene plastics. 3,031,597, 8–28–62, Cl. 154—43.
Busillo, Eugene P., to Fischer & Porter Co. Flowmeter. 3,060,738, 10–30–62, Cl. 73—209.
Business Systems Inc.: *See*—
Nelson, James C. 3,042,177.
Businger, Arthur, to Metallwerke Refonda, Wiederkehr & Co. Method of and installation for processing dross of nonferrous metals. 3,037,711, 6–5–62, Cl. 241—24.
Buske, Fritz, and G. Kuschel, to Schwermaschinenbau S. M. Kirow, VEB. Trailer for transportation of elongated freight. 3,042,421, 7–3–62, Cl. 280—81.
Buskirk, Sam H. Solder band. 3,040,686, 6–26–62, Cl. 113—110.
Buslik, Walter S.: *See*—
Weidenhammer, James A., and Buslik. 3,057,568.
Buslik, Walter S., and V. R. Witt, to International Business Machines Corp. Magnetic tape cleaner. 3,035,295, 5–22–62, Cl. 15—93.
Buslik, Walter S., to International Business Machines Corp. Rotatable magnetic transducer. 3,042,756, 7–3–62, Cl. 179—100.2.
Buss, Benjamin A., to American Machine and Metals, Inc. Combined washer and centrifuge having common means to change speed and operate valve. 3,023,597, 3–6–62, Cl. 68—24.
Buss, Benjamin A., to Ametek, Inc. Laundry machine having a variable speed belt drive with means for varying belt tension. 3,068,677, 12–18–62, Cl. 68—140.
Busse, Ferdinand. Method of and apparatus for manufacturing helically finned tubing. 3,053,971, 9–11–62, Cl. 219—107.
Busse, Floyd E., to Consolidated Foundries and Mfg. Corp. Power actuated foldable bleacher assemblage. 3,052,929, 9–11–62, Cl. 20—1.126.
Busse, Walter M., to Glenn Chemical Co., Inc. Apparatus for spraying liquid material on articles. 3,070,064, 12–25–62, Cl. 118—2.
Busse, Warren F., to E. I. du Pont de Nemours and Co. Process for modifying polymers and products thus obtained. 3,065,157, 11–20–62, Cl. 204—154.
Busse, Warren F., G. H. Bowers III, and J. B. Armitage, to E. I. du Pont de Nemours and Co. Process of bonding polyolefin resins to polar solid substrates, resultant coated article and polyolefin coating composition. 3,043,716, 7–10–62, Cl. 117—132.
Bussell, George W.: *See*—
Boucher, John B., and Bussell. 3,027,341.
Busser, John H.: *See*—
Goodman, Robert M., and Busser. 3,066,570.
Bussey, Peter E., to Zeuthen & Aagaard A/S. Mechanism for duplicators for inserting interleaving sheets between the printed sheets. 3,029,731, 4–17–62, Cl. 101—419.
Bussiere, Louis E.: *See*—
Koolstra, John A., and Bussiere. 3,015,931.
Bussinger, Robert B. Noise maker stilts. 3,038,264, 6–12–62, Cl. 35—7.5.
Buster, Edwin B. Trussed pallet. 3,039,640, 6–19–62, Cl. 217—43.
Bustin, Leopold. Non-slip wheel chock. 3,054,477, 9–18–62, Cl. 188—32.
Butcher, Walter W., and W. A. Proell, to Standard Oil Co. Stabilized ammonium nitrate propellant compositions containing salts of ethylenediaminetetraacetic acid. 3,067,076, 12–4–62, Cl. 149—19.
Butenuth, Gunter, and K. Meltendorf, to Knapsack-Griesheim Aktiengesellschaft. Process and device for the preparation of soot from hydrocarbons. 3,039,852, 6–19–62, Cl. 23—209.7.
Butler, Adolf G., to American Pipe and Construction Co. In-process butt-welding apparatus. 3,059,096, 10–16–62, Cl. 219—101.
Butler, Arthur D. V.: *See*—
Foster, James A., Sr., and Butler. 3,031,350.
Butler, Arthur J., and N. J. Wilkaitis, to Olin Mathieson Chemical Corp. Smoke forming compositions. 3,052,577, 9–4–62, Cl. 149—19.
Butler, Bernadette. Ironing table with extensible ironing board surface. 3,046,682, 7–31–62, Cl. 38—138.
Butler, Charles L. Building construction. 3,038,276, 6–12–62, Cl. 50—183.
Butler, Christopher L. Step-ladder attachment. 3,042,142, 7–3–62, Cl. 182—129.
Butler, Clarence A., Jr., and C. C. Silsby, Jr., to Diamond Alkali Co. Electrolytic process and apparatus. 3,017,338, 1–16–62, Cl. 204—98.
Butler, Clay P., to United States of America, Navy. Radiation calorimeter. 3,034,355, 5–15–62, Cl. 73—355.
Butler Co.: *See*—
Perkins, Earl S. 3,034,724.
Butler, Earl K.: *See*—
Weatherhead, Herman R., and Butler. 3,070,122.
Butler, Frank, and J. Tatlock, to United Kingdom Atomic Energy Authority. Fuel elements for nuclear reactors. 3,030,291, 4–17–62, Cl. 204—193.2.
Butler, George. Viner and huller. 3,046,992, 7–31–62, Cl. 130—30.
Butler, George B., to Peninsular Chem Research, Inc. Linear organic saturated non-ionic homopolymers of symmetrical 1,6-dioleflnic monomers. 3,044,986, 7–17–62, Cl. 260—63.
Butler, Gordon O., and W. H. Calvert, to Houdaille Industries, Inc. Vehicle elevating mechanism. 3,043,454, 7–10–62, Cl. 214—75.
Butler, Henry E. Combined tobacco article package and ash disposal unit. 3,064,799, 11–20–62, Cl. 206—41.
Butler, Henry J., to Dunlop Rubber Co. Ltd. Braking system for rolling stock. 3,027,982, 4–3–62, Cl. 188—195.
Butler, Henry J., to Dunlop Rubber Co. Ltd. Fluid actuated disc brakes and housings and friction elements therefor. 3,042,152, 7–3–62, Cl. 188—73.
Butler, Henry J., to Dunlop Rubber Co. Ltd. Braking system. 3,044,580, 7–17–62, Cl. 188—140.
Butler, Henry J., to Dunlop Rubber Co. Ltd. Braking systems for railway vehicles. 3,056,471, 10–2–62, Cl. 188—33.
Butler, Henry J., to Dunlop Rubber Co. Ltd. Disc brakes for vehicles. 3,053,346, 9–11–62, Cl. 188—73.
Butler, Henry J., to Sanders Associates, Inc. Railway wheel, brake and suspension assemblies. 3,062,328, 11–6–62, Cl. 188—33.
Butler, Jack B. Fastening device. 3,067,477, 12–11–62, Cl. 24—215.
Butler, Jack M., to Armstrong Bros. Tool Co. Swivel pad construction for C clamps and the like. 3,052,462, 9–4–62, Cl. 269—249.
Butler, James W.: *See*—
Ulrich, Aaron J., Butler, and Hatch. 3,022,236.
Butler, Jesse L., to Sanders Associates, Inc. Three conductor planar antenna. 3,031,666, 4–24–62, Cl. 343—771.
Butler, Jesse L., to Sanders Associates, Inc. Three conductor planar antenna. 2,044,066, 7–10–62, Cl. 343—771.
Butler, John L., and R. A. Clemens. Electrically assisted manual gear shift means. 3,049,934, 8–21–62, Cl. 74—335.
Butler, John M.: *See*—
Edward H., Hedrick, and Butler. 3,017,391.
Butler, John M., R. M. Hedrick, and E. H. Mottus, to Monsanto Chemical Co. Polymerization of higher lactams. 3,017,392, 1–16–62, Cl. 260—78.
Butler, John M., R. M. Hedrick, and E. H. Mottus, to Monsanto Chemical Co. Process of polymerizing higher lactams. 3,018,273, 1–23–62, Cl. 260—78.
Butler, John M., R. M. Hedrick, and E. H. Mottus, to Monsanto Chemical Co. Isocyanate catalyzed polymerization of lactams. 3,028,369, 4–3–62, Cl. 260—78.
Butler, John M., L. A. Miller, and G. L. Wesp, to Monsanto Chemical Co. Nitrozenus addition polymers of proplolates. 3,068,200, 12–11–62, Cl. 260—47.
Butler, John M., L. A. Miller, and G. L. Wesp, to Monsanto Chemical Co. Polyurea-polyester resins. 3,068,208, 12–11–62, Cl. 260—77.5.
Butler, John P., to American Can Co. Food package. 3,025,167, 3–13–62, Cl. 99—171.
Butler, John R., to Raytheon Co. Magnetron electrode structures. 3,045,147, 7–17–62, Cl. 315—39.69.
Butler, Joseph F. Display device. 3,017,713, 1–23–62, Cl. 40—135.
Butler, Kenneth: *See*—
Beereboom, John J., and Butler. 3,069,467.
Butler, Louis R.: *See*—
Robertson, Anthony E., Donahue, and Butler. 3,038,407.
Butler Mfg. Corp.: *See*—
Callahan, William R., and Ragsdale. 3,048,244.
Cook, Alan R. 3,064,831.
McVicar, Thomas H. 3,054,342.
Butler Paper Corps.: *See*—
Altmann, Norman A., and Bureau. 3,016,323.
Butler, Paul E., to General Motors Corp. Variable area fuel injector. 3,064,903, 11–20–62, Cl. 239—76.
Butler, Ralph T. Suspension structure for vehicles. 3,024,038, 3–6–62, Cl. 280—104.5.
Butler, Ralph T. Suspension apparatus for tandem-axle trucks and the like. 3,034,592, 5–15–62, Cl. 180—22.
Butler, Richard K., to Machinecraft, Inc. Top roll guides. 3,031,724, 5–1–62, Cl. 19—250.
Butler, Richard K., to Machinecraft, Inc. Top roll weighting devices. 3,041,677, 7–3–62, Cl. 19—267.

Butler, Richard K., to Machinecraft, Inc. Creel. 3,042,340, 7 3-62, Cl. 242—131.

Butler, Robert W., to Hercules Powder Co. Stabilized cellulose derivatives and process. 3,049,433, 8-14-62, Cl. 106—177.

Butler, Robert W., to Hercules Powder Co. Preparation of free acid cellulose ether films. 3,064,313, 11-20-62, Cl. 18—57.

Butler, Roger M.: *See*—
Eng, Jackson, and Butler. 3,029,575.

Butler, Roger M., and R. Kartzmark, to Esso Research and Engineering Co. Hydrofining lubricating oil. 3,016,350, 1-9-62, Cl. 208—264.

Butler, Russell L., to The Dow Chemical Co. Process for heat stamping thermoplastic materials. 3,022,212. 2-20-62, Cl. 156—238.

Butler, Stanley C., and D. L. L. Marsh. Toy targets. 3,041,-674, 6-26-62, Cl. 273—102.1.

Butler, Stanley C., and D. L. L. Marsh. Toy air compressor rocket launcher. 3,046,966, 7-31-62, Cl. 124—11.

Butler, Thomas A.: *See*—
Spedding, Frank H., and Butler. 3,034,889.

Butler, Thomas A., and A. Rhodes, to The Lubrizol Co p. Nitrogen, phosphorus and sulfur-containing lubricants. 3,076,768, 2-5-62, Cl. 252—32.7.

Butler, Thomas T., to Bell Telephone Laboratories, Inc. Parallel input fast carry binary counter with feedback resetting means. 3,064,890, 11-20-62, Cl. 235—92.

Butler, William F. Clamping device. 3,061,263, 10-30-62, Cl. 251—9.

Butler, William L., to General Electric Co. Wire connector clamp. 3,029,514, 2-6-62, Cl. 339—95.

Butler, William R., G. L. Moore, W. C. Keith, and F. D. Sanborn, Jr., to Aluminum Co. of America. Cast structural gratings. 3,057,271, 10-9-62, Cl. 94—36.

Butorac, John R., to Applied Power Industries, Inc. Fluid pressure actuated power unit. 3,042,006, 7-3-62, Cl. 121—46.

Butsch, Richard L., and J. F. Schulte, to General Electric Co. Dishwashing machine. 3,034,518, 5-15-62, Cl. 134—98.

Butscher, Frank W., to United States Steel Corp. Self-centering rolls. 3,052,396, 9-4-62, Cl. 226—192.

Butson, Peter C., to The General Electric Co. Ltd. Aerial system having variable directional properties. 3,044,067, 7-10-62, Cl. 343—781.

Butt, Sheldon H.: *See*—
Johnson, Wallace C., and Butt. 3,045,330.

Butt, William H.: *See*—
Flowers, Ralph G., Butt, and Howe. 3,058,951.

Buttars, George S.: *See*—
Zellner, Isadie L., and Buttars. 3,040,338.

Buttemeier, Earl. Fishhook extracting means. 3,027,676, 4-3-62, Cl. 43—43.16.

Buttenhoff, Edward W., to Minneapolis-Honeywell Regulator Co. Control apparatus. 3,050,602, 10-30-62, Cl. 37—129.

Butter, Edward J., to Josiah Parkes & Sons Ltd. Locks. 3,060,716, 10-30-62, Cl. 70—134.

Butter, Otto, to Gesellschaft fur Industrielle Technik m.b.H. Arrangement of an inscribing machine on a drawing board. 3,058,566, 10-16-62, Cl. 197—2.

Butter, Otto, to Gesellschaft fur Industrielle Technik m.b.H. Washing machine. 3,066,333, 12-4-62, Cl. 15—3.12.

Butter, Otto, and H. Erndt, to Gesellschaft fur Industrielle Technik m.b.H. Cleaning and polishing appliance. 3,060,-485, 10-30-62, Cl. 15—328.

Butterfield, Omer R.: *See*—
Hewes, Ralph E., and Butterfield. 3,065,674.

Butterfill, Sydney T. Basket-type carton. 3,018,032, 1-23-62, Cl. 229—52.

Butters, Robert B., to Industrial Nucleonics Corp. Conveyor speed control by measuring material level. 3,064,357, 11-20-62, Cl. 34—52.

Butterworth, Archibald J., to Sidler Ltd. Apparatus for maneuvering motor vehicles in confined spaces. 3,057,-424, 10-9-62, Cl. 180—1.

Butterworth, Grant J.: *See*—
Sears, Chester G., and Butterworth. 3,016,203.

Butterworth, Greg S.: *See*—
Watt, James G., and Butterworth. 3,037,332.

Butterworth, Earl M.: *See*—
Dobry, Reuven, Butterworth, and Jang. 3,062,723.

Buttery, Kenneth T.: *See*—
Cornell, David D., and Buttery. 3,026,014.
Ullrich, Fred J., and Buttery. 3,026,013.

Buttery, Kenneth T., and C. D. Rice, to KVP Sutherland Paper Co. Carton. 3,042,284, 7-3-62, Cl. 229—51.

Buttery, Kenneth T., and C. D. Rice, to KVP-Sutherland Paper Co. Dispensing carton or receptacle. 3,049,283, 8-14-62, Cl. 229—43.

Butticaz, Andre, and H. Dembowski. Apparatus for controlling uniformity of a flow of textile and the like fibres. 3,069,621, 12-18-62, Cl. 324—61.

Buttinger, Paul. Device for cultivating plants. 3,066,446, 12-4-62, Cl. 47—38.

Buttner, Artur, to Schnellpressenfabrik Aktiengesellschaft Heidelberg. Curved cylinder for relief printing machines having a removable stereotype plate-carrying jacket. 3,045,594, 7-24-62, Cl. 101—375.

Buttner, Carl M., to Robbins & Myers, Inc. Radiation fin structure for rod-like heating elements. 3,031,171, 4-24-62, Cl. 257—262.19.

Buttram, Henry J.: *See*—
Kertesz, Francois, and Buttram. 3,031,342.

Buttress, George A. Machine for forming plaster keying recesses in plasterboard. 3,057,395, 10-9-62, Cl. 156—347.

Butts, Bruce D.: *See*—
Appleton, David B., and Butts. 3,031,565.

Butts, Harvey L., to United States of America, Atomic Energy Commission. Glove box attachment. 3,020,647, 2-13-62, Cl. 34—92.

Butts, Paul D. Tremolo device for stringed instruments. 3,056,329, 10-2-62, Cl. 84—313.

Butts, Richard R., and E. J. Whyte, Jr., to Carbon Chemical Corp. Carbon reclaiming methods and apparatus. 3,051,-554, 8-28-62, Cl. 23—209.8.

Butz, James N., to Carroll Container Corp. Packing for automotive windshields or the like. 3,028,953, 4-10-62, Cl. 206—62.

Butzke, Fritz, H. Graml, and S. Voelcker, to Siemens & Halske Aktiengesellschaft Berlin and Munich. Method of and apparatus for producing and sending out and/or decoding coded multi-step alphabet teleprinting. 3,026,371, 3-20-62, Cl. 178—22.

Buurman, Aart, P. C. Limburg, and R. A. Vroon, to American Enka Corp. Manufacture of rayon. 3,033,696, 5-8-62, Cl. 106—165.

Buus, Melvin L., and H. Nerhus. Binomial probability calculator. 3,044,692, 7-17-62, Cl. 235—61.

Buxman, Richard L. Ventilated roofs for boats. 3,018,784, 1-30-62, Cl. 135—9.

Buxton, Elliott R., to North American Aviation, Inc. Terminal prediction aircraft landing system. 3,059,856, 10-23-62, Cl. 244—77.

Buxton, Harry L. Pulsating rotary engine. 3,034,486, 5-15-62, Cl. 123—11.

Buxton, Inc.: *See*—
Brouton, Douglas J. 3,067,792.
Collings, Dana B. 3,026,921.
Collings, Dana B. 3,067,793.

Buxton, Loran O. Pocket size cigar holders. 3,025,951, 3-20-62, Cl. 206—41.

Buyer, Walter, to The Ridge Tool Co. Slidable outer jaw wrench. 3,015,246, 1-2-62, Cl. 81—167.

Buyken, Frank E. Method of producing concrete form ties and the like. 3,024,527, 3-13-62, Cl. 29—509.

Buykx, Wilhelmus J., to North American Philips Co., Inc. Process for the manufacture of nickel zinc ferrites. 3,036,-007, 5-22-62, Cl. 252—62.5.

Buys, James F. Bottle holder. 3,037,654, 6-5-62, Cl. 215—100.

Buzicky, Edmund J., R. E. Johnson, J. R. Hilmanowski, and E. J. Milnar, to Whirlpool Corp. Apparatus for dispensing particulate material. 3,038,641, 6-12-62, Cl. 222—129.

Buzzelli, Frank D., A. E. Goodwin, and E. Siden. Hair curler. 3,057,365, 10-9-62, Cl. 132—40.

Byam, Erwin B., to Textron Inc. Multiple station pointer for screws or the like. 3,056,981, 10-9-62, Cl. 16—21.

Byars, Edgar W. Juice extractor. 3,040,655, 6-26-62, Cl. 100—152.

Byars, George W., ½ to C. H. Manning. 3,028,210, 4-3-62, Cl. 312—223.

Byatt, Dennis, to Marconi's Wireless Telegraph Co. Ltd. Radio direction finding systems. 3,047,864, 7-31-62, Cl. 342—120.

Byer, Arthur J., J. J. Hohenadel, and A. Sofia, to The Lodge & Shipley Co. Shipping case unloading machine. 3,044,642, 7-17-62, Cl. 214—311.

Byczkowski, Mieczyslaw, to Hoffman Electronics Corp. Semiconductor photocells. 3,020,412, 2-6-62, Cl. 250—211.

Byczkowski, Mieczyslaw W., to Hoffman Electronics Corp. Constant current devices. 3,040,218, 6-19-62, Cl. 317—234.

Bydalek, Floyd J., G. E. Dietz, and R. B. Matthews, to Penn Controls, Inc. Fuel control valve. 3,024,812, 3-13-62, Cl. 137—624.11.

Bydalek, Theodore: *See*—
Johnson, Stanford E. and Bydalek. 3,045,580.

Byer, George T.: *See*—
Eddy, William R., and Byer. 3,050,646.

Byer, Marshall, T. G. O'Leary, and T. L. Reed, to Corning Glass Works. Composite glaceramic articles and method of making. 3,040,213, 6-19-62, Cl. 317—101.

Byerly, Richard T., to Westinghouse Electric Corp. Electron means for generating trigonometric functions. 3,048,337, 8-7-62, Cl. 235—186.

Byers, Clarence H. Vehicle operator alarm. 3,051,258, 8-28-62, Cl. 180—82.

Byers, Clifton A., to S. K. Wellman Co. Improvement in friction material for a brake. 3,033,326, 5-8-62, Cl. 188—251.

Byers, Donald J. Equipment for underwater photography and related uses. 3,026,784, 3-27-62, Cl. 95—11.

Byers, Donald W. Machine for automatically placing and securing film transparencies in film mounts. 3,043,363, 7-10-62, Cl. 156—443.

Byers, Edward V. Ribbon feed mechanism of typewriters. 3,047,120, 7-31-62, Cl. 197—151.

Byers, George. Easy-to-clean fish bag. 3,053,005, 9-11-62, Cl. 43—55.

Byers, James O., Jr., to The Bendix Corp. Pressure balancing means for rotary end valving surfaces. 3,068,805, 12-18-62, Cl. 103—161.

Byk-Gulden Lomberg Chemische Fabrik G.m.b.H.: *See*—
Zellner, Hugo. 3,019,166.

Byland, Henry L., to Cummins-Chicago Corp. Quick set perforating apparatus. 3,055,292, 9–25–62, Cl. 101—19.

Byles, Theodore A., to Motorola, Inc. Regulator circuit for generators. 3,059,167, 10–16–62, Cl. 322—25.

Byloff, Robert C., to The Garrett Corp. Magnetic amplifier control apparatus. 3,021,474, 2–13–62, Cl. 323—89.

Byloff, Robert C., and J. K. Jackson, to The Garrett Corp. Driving and control means for plurality of alternators. 3,067,334, 12–4–62, Cl. 290—4.

Bylsma, Harold R., and D. S. Chisholm, to The Dow Chemical Co. Liquid-solid contactor. 3,031,807, 5–1–62, Cl. 51—164.

Byrd, Clarence G., and W. K. Hagan, to International Telephone & Telegraph Corp. Flip-flop varies frequency of blocking oscillator. 3,061,795, 10–30–62, Cl. 331—52.

Byrd, Edgar J. : *See*—
Byrd, Roy G., J. B., and E. J. 3,047,168.

Byrd, Jack T. : *See*—
Byrd, James T. 3,024,759.

Byrd, James B. : *See*—
Byrd, Roy G., J. B., and E. J. 3,047,168.

Byrd, James T., known as Jack T. Byrd. Outboard propeller drive from inboard engine, and steering mechanism. 3,024,-759, 3–13–62, Cl. 115—41.

Byrd, Joseph P., to Oilfield Equipment Corp. of Colorado. Pumping device. 3,029,650, 4–17–62, Cl. 74—41.

Byrd, Norman R., to The Goodyear Tire & Rubber Co. Difunctional polymers and methods for their preparation. 3,047,544, 7–31–62, Cl. 260—79.

Byrd, Roy G., J. B., and E. J., 49% to K. W. Corder. Tobacco stringers. 3,047,168, 7–31–62, Cl. 214—5.5.

Byrd, William, Jr. : *See*—
Taslitt, Norman, and Byrd. 3,052,205.

Byrge, Jerome J. Furnace humidifier. 3,021,831, 2–20–62, Cl. 126—113.

Byrne, Andrew J. : *See*—
Bonza, Louis F., Byrne, and Smith. 3,041,668.

Byrne, John F. : *See*—
Walkup, Lewis E., and Byrne. 3,057,275.

Byrne, John F., and L. E. Walkup, to Xerox Corp. Process for forming electrostatic images. 3,057,719, 10–9–62, Cl. 96—1.

Byrne, Joseph, R. V. McDowell, and F. N. Lammerman, to Union Oil Co. of California. Radial flow catalytic reactor. 3,027,244, 3–27–62, Cl. 23—288.

Byrnes, Dennis W. Animal husbandry. 3,045,612, 7–24–62, Cl. 104—178.

Byrnes, James J., and P. Miller, to Associated Nucleonics, Inc. Radiant heat energy pulse recorder. 3,030,810, 4–24–62, Cl. 73—355.

Byrnes, John J., to H. D. L. Gregory. Fill cap for fill pipes of underground installation. 3,029,976, 4–17–62, Cl. 220—86.

Byrnes, Peter A., Jr., T. E. Davis, and E. C. Mener, to Bell Telephone Laboratories, Inc. Bonding apparatus. 3,048,-690, 8–7–62, Cl. 219—85.

Byrnes, Richard J. : *See*—
Brand, William D., Byrnes, and Montgomery. 3,055,479.

Byrnes, Richard J., to Cutler-Hammer, Inc. Article conveyor. 3,036,691, 5–29–62, Cl. 198—20.

Byrnes, Richard J., to Cutler-Hammer, Inc. Article conveyors. 3,058,565, 10–16–62, Cl. 193—36.

Byrnes, Richard J., R. N. Eck, C. F. Robbins, and N. Sadowski, to Cutler-Hammer, Inc. Article diverter system. 3,058,-567, 10–16–62, Cl. 198—20.

Byrnes, William P., to Teletype Corp. Tape reader. 3,021,-888, 2–13–62, Cl. 178—17.

Byrum, Thelma L. Spelling board. 3,024,541, 3–13–62, Cl. 35—35.

Byssing, George J., and W. G. Meziere. Suspended ceiling. 3,055,469, 9–25–62, Cl. 189—85.

Bystricky, Joseph C., W. G. Jennings, and J. L. Luna, to Stewart-Warner Corp. Pump and timer for a centralized lubrication system. 3,035,661, 5–22–62, Cl. 184—7.

Bystrom, Mikeal G. Run-off extension for downspouts. 3,060,952, 10–30–62, Cl. 137—67.

Bystrom, Mikeal G. Actuating device for aerosol bombs. 3,061,149, 10–30–62, Cl. 222—167.

Bywater, Denis A. : *See*—
Simmie, Walter S., Bywater, and Robinson. 3,053,972.
Simmie, Walter S., Bywater, and Robinson. 3,053,974.

CAPS Ltd. : *See*—
Jeffree, John H. 3,051,015.

C.A.V. Ltd. : *See*—
Evans, Fraser M. 3,058,425.
Hutcheon, Keith F. 3,025,797.
Kemp, Kenneth A. W. 3,051,154.
Kemp, Kenneth A. W., and Hutcheon. 3,035,523.
Knight, Basil E. 3,026,157.
Kruk-Strzelecki, Jerzy B. 3,027,844.

C-E-I-R, Inc. : *See*—
Clinton, Henry H. 3,029,418.
Clinton, Henry H. 3,029,419.

CFC Corp. : *See*—
Campbell, Frank S., Frank, and Charles. 3,015,408.
Campbell, Frank S., Frank, and Charles. 3,015,409.

C.G.S. Laboratories, Inc. : *See*—
Dewitz, Gerhard H. 3,037,185.
Gabriel, Fred C. 3,030,584.

C. I. C. Engineering Ltd. : *See*—
Mills, Edward C., and Keith. 3,037,243.
Webb, Charles E., and Hawkins. 3,044,122.

C. I. P. Compagnia Italiana Petrolio S.p.A. : *See*—
Pagliarini, Pietro, Magri, and Stefanini. 3,062,853.

C.I.P. Co. : *See*—
Derby, Marshall T. 3,058,128.

C K Components, Inc. : *See*—
Sturdy, Robert H. 3,027,627.

"COQ." N.V. : *See*—
Hidde Nijland, Hendrik A. 3,062,934.

C & P Phonoproducts Inc. : *See*—
Close, Egbert B., and Patenaude. 3,039,202.

CPS Mfg. Co. : *See*—
Cummings, Thomas N., Peterson, and Shiu. 3,042,225.

CRIBLA Societe Anonyme : *See*—
Petit, Omer. 3,017,994.

C. R. O. Engineering Co., Inc. : *See*—
Kleine, Rudolph W. 3,035,946.
Kleine, Rudolph W. 3,065,382.

C. S. M. Screw Products Co. : *See*—
Molan, John S. 3,038,746.

CTS Corp. : *See*—
Barden, Wayne A. 3,035,241.
Daily, Arthur M., and Woods. 3,069,598.

C.U.R.A. Patents Ltd. : *See*—
Di Girolamo, Joseph, and Kelver. 3,023,388.
Hoy, Herbert R., Wilkins, and Johnson. 3,016,566.

Caban, Louis, and F. L. Reusche, to L. Reusche & Co. Process of gold coating ceramic surfaces and articles produced thereby. 3,018,191, 1–23–62, Cl. 117—70.

Cabasso, Victor J., to American Cyanamid Co. Infectious bovine rhinotracheitis vaccine and method of preparing it. 3,057,783, 10–9–62, Cl. 167—78.

Cabbage, John T., to Phillips Petroleum Co. Fractionation column control. 3,049,886, 8–21–62, Cl. 62—21.

Cabbage, John T., to Phillips Petroleum Co. Two-stage isomerization of methylcyclopentane and normal hexane. 3,054,832, 9–18–62, Cl. 260—666.

Cabelka, Jozef, to Vyskumny ustav svaracsky MHD. Process of electrically welding under a layer of molten slag. 3,046,383, 7–24–62, Cl. 219—73.

Cabell, Charles P., United States of America, Atomic Energy Commission. Irradiation method and apparatus. 3,069,337, 12–18–62, Cl. 204—154.2.

Cabin Crafts, Inc. : *See*—
Bryant, Clifford A., Hackney, and Payne. 3,026,830.

Cable Belt Ltd. : *See*—
Walker, John L. 3,059,758.

Cable, Robert E., W. B. Goode, Jr., W. K. Henderson, and G. H. Montillon, to United States of America, Atomic Energy Commission. Fluorine cell anode assembly. 3,041,-266, 6–26–62, Cl. 204—288.

Cabot Corp. : *See*—
Antonsen, Randolph, Bradley, and Beattie. 3,068,089.
Ayres, Henry S. 3,045,791.
Ayres, Henry S., and Tatum. 3,036,415.
Bradley, John M. 3,051,992.
Eyler, George, Winbourne, and Hestand. 3,052,003.
McCann, Robert E., and Reeve. 3,057,442.
Messier, Albert P. 3,028,354.
Munsell, David D., and Jackson. 3,015,853.
Rogers, Joe Y., Jr., and Brown. 3,039,853.
Seltzer, Kenneth P., and Wendell. 3,067,012.
Spencer, Walter B., Smith, and Cosman. 3,024,089.
Wilkinson, Alvin H., and Pendergraft. 3,032,147.

Cabot, Nat. Returnable practice golf ball. 3,051,491, 8–28–62, Cl. 273—200.

Cabot, Samuel. Water dispersible pigments and the production thereof. 3,042,540, 7–3–62, Cl. 106—308.

Cabral, Walter M., to Yuba Consolidated Industries, Inc. Airplane tow tractor. 3,049,253, 8–14–62, Cl. 214—147.

Caccese, Richard M. : *See*—
Middents, John R., and Caccese. 3,025,210.

Cacciotti, Joseph J., to General Electric Co. Rhenium bonded composite material and method. 3,024,522, 3–13–62, Cl. 29—195.

Caciagli, Sergio. Aircraft wing. 3,022,965, 2–27–62, Cl. 244—90.

Cacioppo, Tony : *See*—
Jones, Gibb, and Cacioppo. 3,060,532.

Caddell, Alfred M. Crank actuated means for retaining fluid pressure at top center. 3,034,362, 5–15–62, Cl. 74—36.

Caddell, Alfred M. Maximum leverage turbine with compound drive buckets. 3,035,758, 5–22–62, Cl. 230—116.

Caddell, Alfred M. Four-sided piston and fluid sealing means. 3,068,850, 12–18–62, Cl. 123—193.

Caddock, Richard E. : *See*—
Hardison, Wilbur T., Mathison, Caddock, and Bourns. 3,069,646.

Cade, Phillip J., to Electronics Corp. of America. Automobile headlight safety circuits. 3,065,379, 11–20–62, Cl. 315—83

Cadillac Co. Inc., The : *See*—
Shustrom, Elmer N. 3,046,619.

Cadillac Gage Co. : *See*—
Barlow, Roland J. 3,024,810.
Bauer, Russell E., and Lorimer. 3,032,882.

Cadillac-Jordan G.m.b.H. : *See*—
Rehbock, Herbert. 3,043,340.

Cadillac Overall Supply Co. : *See*—
Shulevitz, Joseph I. 3,051,484.

Cadillac State Bank : *See*—
Greeley, Leo O. 3,022,587.

Cadiou, Jean, to Andre Citroen, Societe Anonyme. Suspension device for the power unit and drive members of automotive vehicles. 3,052,312, 9–4–62, Cl. 180—54.

Cadman, Morgan T., to United States Steel Corp. Connection for side tube of reaction flask. 3,061,417, 10–30–62, Cl. 23—292.

Cadmus, Lamont A., to Bank of America National Trust and Savings Assn. Wheel and brake assembly. 3,028,932, 4–10–62, Cl. 188—2.

Cado, Erwin E., to Motorola, Inc. Process for forming electrical conductors on insulating bases. 3,042,591, 7–3–62. Cl. 204—15.

Cadwallader, Alvin A., to Teleflex Inc. Marine power control system. 3,051,886, 8–28–62, Cl. 318—467.

Cadwallader, Alvin A., to Teleflex Inc. Guide conduit for motion transmitting system. 3,063,303, 11–13–62, Cl. 74—501.

Cadwallader, Donald E., to Sterling Drug Inc. Magnesium hydroxide suspensions. 3,044,933, 7–17–62, Cl. 167—55.

Cadwallader, Eugene: *See*—
Peterson, Walter G., and Cadwallader. 3,016,647.

Cadwallader, Robert H., to International Business Machines Corp. Element feeding and orienting mechanism. 3,021,-038, 2–20–62, Cl. 198—33.

Cadwell, Edward P., to American Cyanamid Co. Lead filled ceramic media for grinding. 3,034,735, 5–15–62, Cl. 241—184.

Cadwell, Graham M., to The Anaconda Co. Method of making copper cathode starting sheets. 2,046,203, 7–24–62, Cl. 204—12.

Cadwell, Ralph K.: *See*—
Lessing, John D., Atkinson, and Cadwell. 3,048,298.

Cady, Charles A. Battery charging apparatus. 3,048,763, 8–7–62, Cl. 320—39.

Cady, Percy L., Jr. Brake for forming metal plate and sheet. 3,044,526, 7–17–62, Cl. 153—16.

Cafardi, Paschal P. Three-way double garage door. 3,022,-817, 2–27–62, Cl. 160—113.

Cafaro, Joe E. Endless cotton gathering device. 3,039,258, 6–19–62, Cl. 56—49.

Caferro, Edward M., R. L. Howell, W. H. Justus, and C. M. Williams, to American Sign & Indicator Corp. Display sign for alternately displaying time, temperature and date. 3,041,595, 6–26–62, Cl. 340—324.

Caferro, Edward M., and W. H. Justus, to American Sign & Indicator Corp. Display signs. 3,041,596, 6–26–62, Cl. 340—338.

Cafferty, Aloysius G., to Western Electric Co., Inc. Zinc electroplating solution and methods. 3,020,218, 2–6–62, Cl. 204—55.

Cafferty, Aloysius G., and L. B. Rosendahl, to Western Electric Co., Inc. Magnetic article handling apparatus. 3,023,-879, 3–6–62, Cl. 198—41.

Cagan, Bernard J., A. E. Ziroli, and P. Harestad, to Eldon Industries, Inc. Toy cement mixer truck. 3,037,750, 6–5–62, Cl. 259—177.

Cage Bros.: *See*—
Furlong, Herschel L. 3,052,191.

Cagle, Verdo A.: *See*—
Fisher, Barney L. 3,060,634.

Cagle, William B., and W. G. Muroski, to Bell Telephone Laboratories, Inc. Transistor test set. 3,041,537, 6–26–62, Cl. 324—158.

Cagniard, Louis, to Centre National de la Recherche Scientifique. Electrical prospection. 3,060,372, 10–23–62, Cl. 324—1.

Cahan, Boris D.: *See*—
Rnetschi, Paul, Cahan, and Herbert. 3,057,944.

Cahan, Boris D., to The Electric Storage Battery Co. Electric battery. 3,017,448, 1–16–62, Cl. 136—26.

Cahill, Daniel T., to Specialties, Inc. Clamping device. 3,025,072, 3–13–62, Cl. 279—4.

Cahill, James M., to Libby, McNeill & Libby. Analytical apparatus. 3,033,028, 5–8–62, Cl. 73—61.

Cahill, John E.: *See*—
Breen, George B., and Cahill. 3,046,698.

Cahill, Starr W.: *See*—
White, Warren W., and Cahill. 3,066,014.

Cahill, Starr W., to Hycon Mfg. Co. Free drop container. 3,017,019, 1–16–62, Cl. 206—46.

Cahill, Starr W., and W. W. White, to Hycon Mfg. Co. Parachute release hook. 3,028,187, 4–3–62, Cl. 294—83.

Cahill, William D., to Curtiss-Electro Lighting, Inc. Overlapping and interlocking louvers for light fixtures. 3,033,-979, 5–8–62, Cl. 240—9.

Cahn, Bernard, to Shampaine Industries, Inc. Game boards. 3,069,167, 12–18–62, Cl. 273—126.

Cahn, Harold L., to General Electric Co. Coating composition comprising a copolymer of vinyl toluene-butadiene, chlorinated biphenyl, and chlorinated terphenyl, and article coated therewith. 3,037,882, 6–5–62, Cl. 117—75.

Cahn, Robert P., to Esso Research and Engineering Co. Extractive distillation process. 3,059,037, 10–16–62, Cl. 260—674.

Cahn, Robert P., and A. G. Di Micell, to Esso Research and Engineering Co. Separations of multicomponent mixture in single tower. 3,058,893, 10–16–62, Cl. 202—40.

Cahoon, Nelson C.: *See*—
Korver, Margaret P., and Cahoon. 3,048,647.

Cahow. Theodore W.: *See*—
Wilson, Raymond W., and Cahow. 3,035,645.

Cailas, Dimitrios J. Stabilizing attachment for tank washing machines. 3,065,760, 11–27–62, Cl. 134—167.

Caillat, Roger: *See*—
Pruvot, Emile, Baradez, Caillat, and Pointud. 3,057,684.

Cain, Bernard M., to General Electric Co. Liquid-cooled rotor for dynamoelectric machine. 3,049,633, 8–14–62, Cl. 310—54.

Cain, Clifford G., to A. J. Industries, Inc. Vehicle suspensions. 3,066,948, 12–4–62, Cl. 280—104.5.

Cain, Cornelius K., to McNeil Laboratories, Inc. Barbituric acid derivatives. 3,048,588, 8–7–62, Cl. 260—256.4.

Cain, Dallas E., to General Electric Co. Flexible link assembly for transmitting linear motion. 3,018,125, 1–23–62, Cl. 287—86.

Cain, Dean J.: *See*—
Hill, Justin D., and Cain. 3,021,252.

Cain, Francis M., Jr., to United States of America, Atomic Energy Commission. Compartmented reactor fuel element. 3,053,743, 9–11–62, Cl. 204—154.2.

Cain, Howard P. Coupling and supporting means for vehicles. 3,046,037, 7–24–62, Cl. 280—477.

Cain, James F.: *See*—
Loughlin, Raymond. 3,065,496.

Cain, Robert M.: *See*—
Parmater, Lee W., and Cain. 3,028,543.
Parmater, Lee W., and Cain. 3,058,062.

Cain, William P., H. S. Makowski, and A. L. Bisio, to Esso Research and Engineering Co. Process for preparing halogenated copolymers. 3,062,795, 11–6–62, Cl. 260—88.2.

Caine, James R. Thin walled plastic container. 3,045,887, 7–24–62, Cl. 229—1.5.

Caine, Paul H. Headgear. 3,049,720, 8–21–62, Cl. 2—171.

Cairney, Thomas J.: *See*—
Ziffer, Jack, Bennett, Cairney, and Chow. 3,032,471.
Ziffer, Jack, and Cairney. 3,025,216.
Ziffer, Jack, and Cairney. 3,035,919.
Ziffer, Jack, Chow, Cairney, and Bennett. 3,032,470.

Cairns, Theodore L. S., to E. I. du Pont de Nemours, and Co. Color photograph. 3,047,388, 7–31–62, Cl. 96—55.

Caithness, William: *See*—
Tuinila, Raymond P., and Caithness. 3,027,480.

Cake, Frank A. Agitating and mixing device. 3,045,987, 7–24–62, Cl. 259—72.

Cal Alloy Castings, Inc.: *See*—
Dunn, John W. 3,040,902.

Calabresi, Giuseppe. Silencers for the exhaust gases of vehicle internal combustion engines. 3,036,653, 5–29–62, Cl. 181—44.

Calanda-Stiftung, Institut für wissenschaftliche und technische Forschung: *See*—
Taub, William. 3,057,867.

Calaora, Albert: *See*—
Gaveau, Vladimir, Calaora, and Miane. 3,028,530.

Calbert, Harold E., A. M. Swanson, and R. N. Giroux. Method of preparing concentrated milk and resulting product. 3,054,674, 9–18–62, Cl. 99—55.

Calbert, Howard F.: *See*—
Meyer, Andre J., Jr., and Calbert. 3,057,597.

Calbest Engineering & Electronics Co.: *See*—
Fremont, Herbert, and Parker. 3,068,321.
Parker, Harold N. 3,067,524.

Calciano, Benjamin F., Sr., to Cal-Hydrant Corp. Flow regulator for irrigation standpipe. 3,024,613, 3–13–62, Cl. 61—12.

Calcinator Corp.: *See*—
Hebert, John W. 3,043,246.
Hebert, John W., and La Rue. 3,043,247.
Hebert, John W., and La Rue. 3,043,249.
Hebert, John W., Schubert, and Coles. 3,043,245.

Calculagraph Co.: *See*—
Moodie, William C., Sr., and Lepperhoff. 3,030,013.

Cal-Dak Co., The: *See*—
Walsh, Francis J., and McGraw. 3,052,058.

Caldemeyer, Daniel F. Locking mechanism. 3,065,828, 11–27–62, Cl. 188—69.

Caldemeyer, Daniel F. and L. O. Upholstered furniture. 3,031,691, 5–1–62, Cl. 5—354.

Caldemeyer, Lloyd O.: *See*—
Caldemeyer, Daniel F. and L. O. 3,031,691.

Calder, Caesar A., and O. W. Stoeckli, to Time Savers, Inc. Machine for packaging articles in bags or tubes. 3,060,-657, 10–30–62, Cl. 53—77.

Calder, John D.: *See*—
Alton, Werner. 3,024,020.

Calder, William G., to Joints, Inc. Pipe stopper plug. 3,038,631, 6–12–62, Cl. 220—46.

Calderhead, Henry J.: *See*—
Waterfield, Clayton F., and Calderhead. 3,022,482.

Calderhead, Henry J., to Bird Electronic Corp. Filter. 3,065,-434, 11–20–62, Cl. 333—70.

Caldo. Cornelio: *See*—
Bonvicini, Alberto, and Caldo. 3,037,835.

Caldwell, Albert G.: *See*—
Barrett, Paul A., Caldwell, and Walls. 3,041,341.

Caldwell, Blake M., and J. P. Wier, to Halliburton Co. Tilting charge well perforating assembly. 3,067,678, 12–11–62, Cl. 102—20.

Caldwell, Blake M., and H. D. Owen, to Halliburton Co. Well perforating assembly and perforating unit therefor. 3,067,-679, 12–11–62, Cl. 102—20.

Caldwell, Douglas H., H. A. Godecke, and T. Voorhees, to Caldwell Lumber Sales. Prefabricated fence. 3,025,955, 3–20–62, Cl. 206—46.
Caldwell, E. L., & Sons, Inc.: *See*—
Caldwell, Frederick C. 3,015,927.
Caldwell, Frederick C. 3,068,630.
Caldwell, Ellsworth E., to Texaco Inc. Apparatus for indicating an electrically grounded condition. 3,040,211, 6–19–62, Cl. 317—2.
Caldwell, Frank R.: *See*—
Duncan, Richard L., Miller, Caldwell, Ruegg, and Flock. 3,016,704.
Caldwell, Frederick C., to E. L. Caldwell & Sons, Inc. Rotary mower with windrowing attachment. 3,015,927, 1–9–62, Cl. 56—25.4.
Caldwell, Frederick C., to E. L. Caldwell & Sons, Inc. Apparatus for cutting and windrowing. 3,068,630, 12–18–62, Cl. 56—6.
Caldwell, John R., to Eastman Kodak Co. Acetone solution of cellulose triacetate and vinyl polymer and process for preparing same. 3,026,276, 3–20–62, Cl. 260—17.
Caldwell, John R., to Eastman Kodak Co. Vinyl esters of norcamphanecarboxylic acids and polymers thereof. 3,033,-848, 5–8–62, Cl. 260—85.5.
Caldwell, John R. to Eastman Kodak Co. Fire retardant coating and product resulting therefrom. 3,041,207, 6–26–62, Cl. 117—136.
Caldwell, John R., to Eastman Kodak Co. Linear polyesters from dimethylmalonic acid. 3,043,806, 7–10–62, Cl. 260—75.
Caldwell, John R., and J. C. Martin, to Eastman Kodak Co. Resinous polymers from reaction of bis(acetoacetates) and bis(acetoacetamides) with diamine. 3,017,388, 1–16–62, Cl. 260—65.
Caldwell, John R., and H. W. Coover, Jr., to Eastman Kodak Co. Acrylamidic graft copolymers and their preparation. 3,026,293, 3–20–62, Cl. 260—45.5.
Caldwell, John R., W. J. Jackson, Jr., and E. H. Hill, to Eastman Kodak Co. Norcamphanyl esters of α-β-unsaturated dicarboxylic acids and polymers thereof. 3,038,887, 6–12–62, Cl. 260—78.5.
Caldwell, John R., and J. C. Martin, to Eastman Kodak Co. Linear polymeric metal chelates from bis(acetoacetates) and bis(acetoacetamides). 3,053,804, 9–11–62, Cl. 260—47.
Caldwell, John R., and R. Gilkey, to Eastman Kodak Co. Linear polyesters from 1,4-bis(2′-hydroxyethoxy)-2,5-ditertiary butylbenzene. 3,053,805, 9–11–62, Cl. 260—47.
Caldwell, John, R. W. Peters, and H. Watson, to The English Electric Co. Ltd. Control gear for steam turbines. 3,060,-692. 10–30–62. Cl. 60—73.
Caldwell, John R., and J. W. Tamblyn, to Eastman Kodak Co. Polymeric derivatives of bicycloheptene as stabilizers for polymer compositions. 3,068,112, 12–11–62, Cl. 106—180.
Caldwell, Joseph A., to Jersey Production Research Co. Determination of cavity size in earth formations penetrated by a borehole. 3,059,469, 10–23–62, Cl. 73—149.
Caldwell, Joseph A., and M. L. Lytle, to Jersey Production Research Co. Method for preventing corrosion of ferrous metals. 3.021,278, 2–13–62, Cl. 252—8.55.
Caldwell, Joseph A., and B. E. Morgan, to Jersey Production Research Co. Cementing multiple pipe strings in well bores. 3,022,823, 2–27–62, Cl. 166—21.
Caldwell, Joseph M. Universally flexible conduit joint. 3,019,037, 1–30–62, Cl. 285—226.
Caldwell Lumber Sales: *See*—
Caldwell, Douglas H., Godecke, and Voorhees. 3,025,955.
Caldwell Mfg. Co., The: *See*—
Czubchowski, Zygmunt J. 3,021,578.
Nobes, William D. 3,047,905.
Caldwell, Ned A., and W. R. Frint, to FMC Corp. Method of recovering sodium values by solution mining of trona. 3,050,290, 8–21–62, Cl. 262—2.
Caldwell, Richard L.: *See*—
Turner, Stanley E., and Caldwell. 3,035,174.
Caldwell, Roland B., to Ranco Inc. Balanced valve. 3,018,-084, 1–23–62, Cl. 251—282.
Caldwell, Samuel C.: *See*—
Lewis, Ernest E., and Caldwell. 3,034,034.
Caldwell, Samuel L.: *See*—
Denkowski, Walter J., Caldwell, and Kron. 3,069,855.
Caldwell, Samuel P., to Mite Corp. Rufflers. 3,016,850, 1–16–62, Cl. 112—135.
Caldwell, Samuel P., and J. Connors, to Mite Corp. Buttonhole attachment for sewing machines. 3,051,106, 8–28–62, Cl. 112—77.
Cale, Richard C. Method of manufacturing planning hulls. 3,044,083, 7–17–62, Cl. 9—6.
Cale, Roland E., to Schaefer Equipment Co. Dead lever guide. 3,040,840. 6–26–62, Cl. 188—52.
Calehuff, Girard L.: *See*—
Burgess, William H., Jr., Calehuff, and Freuler. 3,066,067.
Calehuff, Girard L., to United States of America, Navy. Discharging exhaust products from a torpedo. 3,048,137, 8–7–62, Cl. 114—20.
Calehuff, Girard L., and F. H. Freuler, to West Virginia Pulp and Paper Co. Means for and method of improving drainage on fourdrimier machines. 3,066,068, 11–27–62, Cl. 162—208.
Calendine, Calvin A.: *See*—
Santelli, Thomas R., Mohr, and Calendine. 3,046,243.
Calendine, Roy A., and C. A. Schroeder. Cable splicing sleeve. 3,068,013, 12–11–62, Cl. 277—63.
Calfee, John D.: *See*—
Deex, Oliver DeS., and Calfee. 3,025,268.
Yanko, William H., and Calfee. 3,058,899.
Calfee, John D., to Monsanto Chemical Co. Hydroxyalkylvinyl ether-ethylene copolymer. 3,025,267, 3–13–62, Cl. 260—77.5.
Calfee, John D., to Monsanto Chemical Co. Ethylene-diethylene glycol monovinyl ether copolymer. 3,025,269, 3–13–62, Cl. 260—77.5.
Calfee, John D., to Monsanto Chemical Co. Process for addition polymerization. 3,057,837, 10–9–62, Cl. 260—93.7.
Calfee, John D., to Monsanto Chemical Co. AlCl$_3$-catalyzed polymerization of ethylene. 3,057,842, 10–9–62, Cl. 260—94.9.
Calfee, John D., and L. E. Erbaugh, to Monsanto Chemical Co. Vinylidene halide polymer synthesis. 3,022,278, 2–20–62, Cl. 260—87.7.
Calfee, John D., W. R. Richard, Jr., and L. E. Erbaugh, to Monsanto Chemical Co. Polymerization of ethylene in the presence of a hydride of boron and oxygen containing catalyst. 3,061,603, 10–30–62, Cl. 260—94.9.
Calfee, Wendell: *See*—
Apfelbeck, Otto L., and Calfee. 3,069,556.
Calhoun, Frank B.: *See*—
Goldwater, Robert, and Calhoun. 3,019,424.
Calhoun, George M., and H. Diamond, to Shell Oil Co. Lubricating oil compositions. 3,041,279, 6–26–62, Cl. 252—32.7.
Calhoun, George M., and W. A. Hewett, to Shell Oil Co. Lubricating compositions. 3,041,283, 6–26–62, Cl. 252—47.
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Calhoun, George M., and W. A. Hewett, to Shell Oil Co. Sulfur-containing polymers and lubricants containing them. 3,052,657, 9–4–62, Cl. 260—79.
Calhoun, J. M.: *See*—
Hillmeyer, Albert C., and Calhoun. 3,059,066.
Calhoun, John T.: *See*—
Wegley, James E., Earle J., and Calhoun. 3,023,933.
Calhoun, Wayne A., to The Rand Corp. Door holding mechanism. 3,063,086, 11–13–62, Cl. 16—49.
Cal-Hydrant Corp.: *See*—
Calciano, Benjamin F., Sr. 3,024,613.
Calco Printers' Association, Ltd.: *See*—
Miller, William S., and Wild. 3,041,199.
Callezi, Armin, to Ciba Ltd. Process for the manufacture of color pigments in finely divided form. 3,016,384, 1–9–62, Cl. 260—314.5.
Callezi, Armin, to Ciba Ltd. Process for the manufacture of quinacridones from 6:13-dihydroquinacridones. 3,024,-239. 3–6–62, Cl. 260—279.
Califone Corp.: *See*—
Metzner, Robert G., and Grolitzer. 3,045,065.
California Computer Products, Inc.: *See*—
Morton, Robert C. 3,028,525.
Morton, Robert C. 3,047,773.
Seid, Eugene. 3,028,523.
California-Fresno Investment Corp.: *See*—
Ruschkaupt, Dolph W. 3,038,496.
California Industrial Products, Inc.: *See*—
Derby, Marshall T. 3,058,128.
California Institute Research Foundation: *See*—
Heyser, Richard C. 3,035,233.
Heyser, Richard C. 3,050,688.
Mathison, Richard P., and Kerr. 3,032,650.
Mead, Carver A. 3,056,073.
Wheeler, Harry L., Jr. 3,067,982.
California Packing Corp.: *See*—
Kugler, Albert H. 3,050,187.
California Plastick, Inc.: *See*—
Madansky, Leslie E. 3,065,335.
California Portland Cement Co.: *See*—
Tabikh, Ali A. 3,027,456.
California Research Corp.: *See*—
Abbott, Andrew D., and Bolt. 3,029,269.
Anderson, Albert G., Stuart, and Drummond. 3,018,247.
Anderson, Robert G., Stuart, and Drummond. 3,018,250.
Anderson, Robert G., Stuart, and Drummond. 3,018,291.
Barusch, Maurice R. 3,050,043.
Barusch, Maurice R. 3,065,064.
Benoit, George J., Jr. 3,030,387.
Brown, Robert J. S. 3,042,855.
Brown, Robert J. S. 3,048,773.
Chittum, Joseph F. 3,029,126.
Chittum, Joseph F., Owens, and Armstrong. 3,041,135.
Clark, Calvin M. 3,018,441.
Davis, Vincent C. 3,020,763.
De Vries, Louis. 3,065,215.
De Vries, Louis, and Thomas. 3,061,599.
Dreher, John L., and Goodrich. 3,025,241.
Drummond, Alan Y., Anderson, and Stuart. 3,024,195.
Drummond, Alan Y., Anderson, and Stuart. 3,024,237.
Egan, Clark J. 3,054,838.
Ferm, Richard L. 3,032,501.
Ferm, Richard L., and Walker. 3,055,951.
Ferstandig, Louis L., and Magee. 3,039,996.
Flanders, Robert L., Parker, and Knowlton. 3,030,300.
Foehr, Edward G. 3,018,248.

California Research Corp.: *See*—Continued
Furby, Neal W., and Newnan. 3,019,191.
George, Wayland D., Jones, and Yule. 3,049,620.
Gould, George D. 3,064,728.
Green, Jack. 3,061,725.
Hegna, Hans O. 3,057,606.
Hotten, Bruce W. 3,024,274.
Hotten, Bruce W. 3,024,277.
Hotten, Bruce W. 3,065,177.
Jones, Stanley B., and Brown. 3,044,010.
Jones, Stanley B., Mueller, and Baker. 3,041,454.
Kemp, Jacob D. 3,067,125.
Kipp, Earl M. 3,062,285.
Klein, Walter W., Jr. 3,025,123.
Klein, Walter W., Jr. 3,038,661.
Knowlton, Harold E., Flanders, and Parker. 3,030,314.
Knudsen, William C. 3,054,471.
Kohn, Gustave K. 3,062,706.
Kohn, Gustave K. 3,069,312.
Kohn, Gustave K., Moore, and Ospenson. 3,062,707.
Kohn, Gustave K., Moore, and Ospenson. 3,062,867.
Kozlowski, Robert H. 3,044,953.
Levine, Irving E., and Clippinger. 3,018,308.
Lind, Wilton H. 3,070,621.
Lind, Wilton H., and Wilkes. 3,041,368.
Lindstrom, Eddie G. 3,035,899.
Lowe, Warren, Kavanagh, Stuart, and Stewart. 3,037,056.
Mason, Harold F. 3,037,930.
Mason, Harold F., and Unverferth. 3,055,823.
Mertens, Edward W., and Wright. 3,026,266.
Meyerhof, Walter E. 3,041,455.
Moore, Joseph E., Ospenson, and Kohn. 3,062,865.
Moore, Joseph E., Ospenson, and Kohn. 3,062,866.
Moore, Joseph E., Ospenson, and Kohn. 3,062,868.
Mulaskey, Bernard F. 3,042,729.
Neely, George L. 3,032,264.
Ospenson, Joseph N., Kohn, and Moore. 3,062,864.
Ospenson, Joseph N., Kohn, and More. 3,066,163.
Parker, Phillip H., Jr. 3,026,286.
Postlewaite, William R. 3,021,909.
Postlewaite, William R. 3,047,078.
Schlatter, Maurice J. 3,053,890.
Seifert, Wolfgang K., and Ferstandig. 3,035,101.
Simm, Clarke N. 3,026,937.
Smith, Neal J. 3,064,570.
Stewart, William T., Stuart, and Lowe. 3,046,260.
Stewart, William T., Stuart, and Lowe. 3,048,544.
Stuart, Frank A., and Wilgus. 3,063,971.
Tilley, Aubra E. Re. 25,194.
Toland, William G. 3,031,429.
Toland, William G. 3,060,179.
Toland, William G. 3,061,232.
Toland, William G. 3,061,410.
Toland, William G. 3,061,612.
Toland, William G., and Schlatter. 3,053,771.
Toland, William G., Jr. 3,022,341.
Toland, William G., Jr. 3,051,746.
Walther, James E. 3,055,774.
Wilkes, John B. 3,069,469.
Wright, James R. 3,032,507.
Wright, James R. 3,050,468.
Wright, James R., and Mertens. 3,052,639.
Wright, James R., and Mertens. 3,062,829.
California Umbrella Co.: *See*—
Russell, Ray A. 3,044,478.
Calk, Oberlee D., and C. O. Priddy. Safety ski bar. 3,051,118, 8–28–62, Cl. 115—6.1.
Calkins Craft Boat Co.: *See*—
Calkins, George A. 3,063,068.
Calkins, Edward H. Dry bowl pipe. 3,028,867, 4–10–62, Cl. 131—203.
Calkins, Eugene M. Power socket wrench. 3,016,775, 1–16–62, Cl. 81—57.
Calkins, Eugene M. Power driven hole cutter. 3,056,203, 10–2–62, Cl. 30—360.
Calkins, Eugene M. Telescoping sectional airplane wing. 3,065,938, 11–27–62, Cl. 244—46.
Calkins, George A., to Calkins Craft Boat Co. Boat construction. 3,063,068, 11–13–62, Cl. 9—6.
Calkins, George B.: *See*—
Sarnoff, Stanley J., and Calkins. 3,070,093.
Sarnoff, Stanley J., and Calkins. 3,070,094.
Calkins, Ray L., to Jersey Production Research Co. Recording seismic signals. 3,032,742, 5–1–62, Cl. 340—15.
Callaghan, Albert E., to Birfield Engineering Ltd. Machines for forming pads or padding from textile or other fibres. 3,019,151, 1–30–62, Cl. 156—375.
Callaghan, Albert E., to Birfield Engineering Ltd. Apparatus for forming fibrous materials into a web. 3,037,248, 6–5–62, Cl. 19—156.
Callahan, Bishop F.: *See*—
Storck, Jack E., and Callahan. 3,038,601.
Callahan, Emmett J. Prefabricated combination bathroom, kitchen and utility room units. 3,047,106, 7–31–62, Cl. 189—1.
Callahan, Francis J., and B. J. Gallagher, to Nuclear Products Co. Metering valve. 3,070,117, 12–25–62, Cl. 137—360
Callahan, Francis P. Airplane fuselage construction with helium lift. 3,032,298, 5–1–62, Cl. 244—119.
Callahan, Fred T., to Olin Mathieson Chemical Corp. Metal forming by explosive force through a solid gel. 3,045,339, 7–24–62, Cl. 29—421.
Callahan, James J., to Trabon Engineering Corp. Positive proportioning, open-line-indicating lubricating system. 3,038,557, 6–12–62, Cl. 184—7.
Callahan, James L.: *See*—
Idol, James D., Jr., Callahan, and Foreman. 3,021,366.
Callahan, James L., to The Standard Oil Co. Process for the manufacture of bismuth catalysts. 3,044,965, 7–17–62, Cl. 252—437.
Callahan, James L., R. W. Foreman, and F. Veatch, to The Standard Oil Co. Attrition resistant oxidation catalyst. 3,044,966, 7–17–62, Cl. 252—437.
Callahan Mining Corp.: *See*—
Jensen, Mead L. 3,020,205.
Callahan, William A.: *See*—
Petering, Wilbur H., and Callahan. 3,031,410.
Petering, Wilbur H., and Callahan. 3,031,411.
Petering, Wilbur H., and Callahan. 3,031,412.
Callahan, William R., and C. M. Ragsdale, to Butler Mfg. Corp. Interlocking wall system. 3,048,244, 8–7–62, Cl. 189—34.
Callan, Joseph M., and E. D. Spierer, to Magnetic Analysis Corp. Rotating probe. 3,025,460, 3–13–62, Cl. 324—37.
Callaway Mills Co.: *See*—
Arnett, Thomas L., and Robinson. 3,025,117.
Henry, James S. 3,020,697.
Parker, Samuel P. 3,038,504.
Parker, Samuel P., and Short. 3,034,193.
Priester, Amos U., Jr., and McWhorter. 3,034,194.
Callegari, Louis G. Punctured can seal and spout. 3,019,950, 2–6–62, Cl. 222—542.
Callen, Robert H., to Fairchild Stratos Corp. Pipe tap. 3,030,828, 4–24–62, Cl. 77—37.
Callen, Robert H., to Fairchild Stratos Corp. Fluid proportioner. 3,033,218, 5–8–62, Cl. 137—99.5.
Callender, Earl R., to Westinghouse Air Brake Co. Holding means for instruments. 3,030,480, 4–17–62, Cl. 200—168.
Calley, James M., to United States of America, Atomic Energy Commission. Cable connector. 3,034,088, 5–8–62, Cl. 339—45.
Callery Chemical Co.: *See*—
Altares, Timothy, Jr. 3,067,257.
Chamberlain, David L., Jr. 3,029,128.
Eads, David K., and Brandt. 3,057,924.
Edwards, Lawrence J. 3,042,485.
Edwards, Lawrence J., and Hough. 3,031,259.
Ford, Marion D. 3,032,480.
Grant, Louis R., and Taylor. 3,049,406.
Grantham, Raymond J. 3,019,114.
Hansen, Charles E., and Hughes. 3,042,704.
Hattori, Kiyoshi, Finn, and Klein. 3,038,943.
Hoke, Ralph M. 3,032,399.
Hough, William V. 3,024,240.
Johnston, Henry P. 3,026,355.
Margrave, John L., and Rahnll. 3,026,178.
McElroy, Albert D., and Nigon. 3,021,190.
McGriff, Stuart G. 3,044,870.
Ross, Carl D. 3,028,432.
Runkle, Jack W. 3,031,503.
Schechter, William H. 3,033,766.
Schechter, William H. 3,053,906.
Schechter, William H., Shumway, and Murchison. 3,028,221.
Uchida, Henry S., and Williams. 3,060,219.
Wuns, Paul R., Jr. 3,046,086.
Callick, Eric B. B.: *See*—
Dain, John, and Callick. 3,039,064.
Dain, John, and Callick. 3,046,492.
Callick, Eric B. B., and J. C. Firmin, to English Electric Valve Co. Ltd. Signal storage arrangements. 3,046,440, 7–24–62, Cl. 315—8.5.
Callighan, Robert H., and M. H. Wilt, to United States Steel Corp. Method of making pyridine aldehydes. 3,067,205, 12–4–62, Cl. 260—297.
Callihan, Clayton D., and S. M. Rodgers, Jr. Sodium derivatives of octakis(2-hydroxy propyl) sucrose. 3,047,560, 7–31–62, Cl. 260—209.
Callihan, Robert E., to Automation Industries, Inc. Magnetic testing system. 3,034,021, 5–8–62, Cl. 317—123.
Callow, Donald S.: *See*—
Pirt, Stanley J., and Callow. 3,015,612.
Calloway Mills Co.: *See*—
Short, Joe T., and Smith. 3,029,454.
Calmusky, John E.: *See*—
Read, John A., and Calmusky. 3,058,267.
Calon, Arnold E. M.: *See*—
Pannenborg, Anton E., and Calon. 3,042,883.
Calor & Sjogren, Aktiebolaget: *See*—
Eriksson, Erik F. 3,054,532.
Hjelte, Sixten M. 3,064,908.
Mossberg, Karl E. 3,017,767.
Calow, Th., & Co.: *See*—
Lindemann, Hans. 3,058,337.
Lindemann, Hans. 3,059,514.
Wegner, Udo, and Lindemann. 3,054,438.
Calow, Th., & Co., Maschinenfabrik und Eisengiesserei: *See*—
Lindemann, Hans. 3,059,794.
Calpat Products, Inc.: *See*—
Armer, Rollin A. 3,015,208.
Armer, Rollin A. 3,064,416.
Handley, John R., and Armer. 3,054,251.

Calpatio Co.: *See*—
Danciart, Ted T., and Dunder. 3,032,373.
Danciart, Ted T., and Dunder. 3,032,380.

Calvaresi, Archie. Protective insulating mat. 3,020,183, 2–6–62, Cl. 154—44.

Calvert, John G., C. B. Corley, Jr., and J. V. Fredd, said Calvert and said Corley, assors. to Jersey Production Research Co., and said Fredd, to Otis Engineering Corp. Assembly for pumping well fluids. 3,064,580, 11–20–62, Cl. 103—8.

Calvert, Raymond, to The Wayne Kerr Laboratories Ltd. Electrical measuring bridges. 3,031,614, 4–24–62, Cl. 324—57.

Calvert, Raymond, to The Wayne Kerr Laboratories Ltd. Apparatus for measuring small distances. 3,048,775, 8–7–62, Cl. 324—61.

Calvert, Willard R., to Oxy-Catalyst, Inc. Method of rejuvenating an exhaust purifier. 3,053,773, 9–11–62, Cl. 252—412.

Calvert, William C., to Borg-Warner Corp. Blend of polymeric products. 3,046,239, 7–24–62, Cl. 260—28.5.

Calvert, William C. Vinylchloride polymer blends with graft copolymers of a conjugated dien/alkyl acrylate copolymer, an unsaturated hydrocarbon, and an unsaturated nitrile. 3,047,533, 7–31–62, Cl. 260—45.5.

Calvert, William H.: *See*—
Butler, Gordon O., and Calvert. 3,043,454.

Calvert, William L.: *See*—
Miller, Walter A., and Calvert. 3,053,079.

Calvet, Edouard J. P. Calorimeter. 3,059,471, 10–23–62, Cl. 73—190.

Calvin, Donald: *See*—
Jacobs, Edward C. 3,060,456.

Calvin, Melvin, and D. R. Kearns. Photoelectric cell using organic materials. 3,057,947, 10–9–62, Cl. 136—89.

Camac, George, to John Thompson, A.E.I.-, Nuclear Energy Co. Ltd. Combined grapple and television guide. 3,066,969, 12–4–62, Cl. 294—66.

Camarata, Alfred A., to Viking Pump Co. Pump. 3,015,282, 1–2–62, Cl. 103—126.

Camarata, Frank J., to Westinghouse Electric Corp. Press seal. 3,025,426, 3–13–62, Cl. 313—184.

Cambel, Ali B., and A. B. Schaffer, 25% to E. Pohlmann. Flame stabilization in jet engines. 3,046,731, 7–31–62, Cl. 60—35.6.

Cambridge Filter Mfg. Corp.: *See*—
Engle, Paul M. 3,019,855.

Cambridge Instrument Co., Inc.: *See*—
Fawcett, Howard N. 3,043,918.
Jessop, Gilbert. 3,022,241.

Cambridge Rubber Co.: *See*—
Bingham, George H., Jr. 3,022,583.
Bingham, George H., Jr. 3,025,614.
Bingham, George H., Jr. 3,034,158.
Bingham, George H., Jr. 3,034,232.
Bingham, George H., Jr. 3,035,291.
Bingham, George H., Jr. 3,035,309.
Bingham, George H., Jr. 3,045,365.
Bingham, George H., Jr. 3,046,581.
Bingham, George H., Jr. 3,047,890.
Bingham, George H., Jr., and Kenworthy. 3,025,545.
Bingham, George H., Jr., and Olsson. 3,016,569.
Bingham, George H., Jr., and Olsson. 3,042,975.

Cambridge Thermionic Corp.: *See*—
Abrams, Ralph, and West. Re. 25,224.
Lyman, Frank, Jr. 3,064,232.
West, Warren H. 3,027,527.
West, Warren H. 3,054,082.

Cambridge Wire Cloth Co.: *See*—
Hooper, Fred L. 3,043,544.

Cambron, John. Chuck stop. 3,032,347, 5–1–62, Cl. 279—1.

Camco, Inc.: *See*—
Daffin, Douglas E. 3,040,814.
Feeser, John R. 3,027,944.
McGowen, Harold E., Jr. 3,020,354.
Moore, Howard H., Jr. 3,045,760.
Tausch, Gilbert H. 3,055,306.
Tausch, Gilbert H. 3,066,690.
Tausch, Gilbert H. 3,070,344.

Came, George E., and H. M. Simmons, to Cleaners Hanger Co. Machine for making garment hangers. 3,047,031, 7–31–62, Cl. 140—81.5.

Camel Trailers Inc.: *See*—
Grigonis, Frank. 3,032,218.

Camenson, Charles E.: *See*—
Shapiro, Justin J., Deminet, and Camenson. 3,067,915.

Cameo Curtains Inc.: *See*—
Zuckerman, Irving, and Berend. 3,037,556.

Cameo, Inc.: *See*—
Heimberg, Eli. 3,047,060.
McGowen, Harold E., Jr., and Moore. 3,037,558.

Camerino, Bruno, to Societa Farmaceutici Italia. Process for preparing 19-nortestosterone derivatives substituted in the 4-position and products of high anabolic activity obtained thereby. 3,025,310, 3–13–62, Cl. 260—397.4.

Camerino, Bruno, and B. Patelli, to Societá Farmaceutici Italia. Therapeutic 4-hydroxy-19-nortestosterone-17-cyclopentyl-propionate, and its process of preparation and its application. 3,020,295, 2–6–62, Cl. 260—397.4.

Camerino, Bruno, U. Valcavi, G. Sala, and G. Baldratti, to Societa' Farmaceutica Italia. Process for the preparation of 4,17α-dihydroxy-progesterone and its esters. 3,030,390, 4–17–62, Cl. 260—397.4.

Camerino, Bruno, and B. Patelli, to Societá Farmaceutic Italia. Process for the production of 6-methyl-3-keto-$\Delta^{4,6}$-steroid compounds. 3,042,688, 7–3–62, Cl. 260—397.3.

Camerino, Bruno, B. Patelli, and D. Cattapan, to Societá Farmaceutici Italia. Synthesis of 4l,4-pregnadiene-17α,21-diol-3,20-dione. 3,048,583, 8–7–62, Cl. 260—239.55.

Camerino, Bruno, B. Patelli, and G. Sala, to Societá Farmaceutici Italia. 4-hydroxy-17α-methyl-3-keto-Δ^4-steroids of androstane and 19-nor-androstane series and esters thereof. 3,060,201, 10–23–62, Cl. 260—397.4.

Camerino, Bruno, R. Modelli, B. Patelli, G. Sala, and G. Baldratti, to Societa Farmaceutici Italia. Steroids 6-methyl-17-hydroxy-progesterone and esters thereof, and a process for their preparation. 3,061,616, 10–30–62, Cl. 260—397.4.

Camerino, Bruno, B. Patelli, and R. Sciaky, to Societa Farmaceutici Italia. 4-hydroxy-steroids and process of their preparation. 3,068,225, 12–11–62, Cl. 260—239.55.

Camerino, Bruno, B. Patelli, and R. Sciaky, to Societa Farmaceutice Italia. Process of preparing 2,3-diketo-5α-steroids. 3,068,227, 12–11–62, Cl. 260—239.55.

Camerino, Bruno, and U. Valcavi, to Societa Farmaceutici Italia. 4-(17β-androstanyl) derivatives of α-valerolactones and α-butyrolacetones, intermediates therefor and their process of prepartaion. 3,068,229, 12–11–62, Cl. 260—239.57.

Camerino, Bruno, B. Patelli, and R. Sciaky, to Societa Farmaceutici Italia. Process of preparing 4-hydroxy-3-keto-Δ^4-steroids. 3,068,247, 12–11–62, Cl. 260—397.4.

Camerino, Bruno, R. Sciaky, and G. Sala, to Societa Farmaceutici Italia. Halo-derivatives of 4-hydroxy-17α-methyl testosterone. 3,068,248, 12–11–62, Cl. 260—397.4.

Cameron, Alastair: *See*—
Ford, Hugh, and Cameron. 3,064,509.

Cameron, Alastair, to National Research Development Corp. Journal bearings. 3,053,589, 9–11–62, Cl. 308—122.

Cameron, Colin E. Instrument mounting device. 3,065,942, 11–27–62, Cl. 248—27.

Cameron, Darrell P., to Bigelow-Sanford, Inc. Boat transport trailer. 3,052,365, 9–4–62, Cl. 214—75.

Cameron, Donald P., to Chas. Pfizer & Co., Inc. Lower alkyl alkenyl ether adducts of Δ^{16}-20-ketosteroids and process therefor. 3,070,504, 12–25–62, Cl. 167—65.

Cameron, Donald P., to Chas. Pfizer & Co., Inc. Novel corticoids from Δ^{16}-20-keto-alkenyl adducts. 3,070,507, 12–25–62, Cl. 167—77.

Cameron, Frank. Bobber device. 3,023,538, 3–6–62, Cl. 43—44.95.

Cameron, Frank L., to Westinghouse Electric Corp. Electric fuse connection. 3,069,520, 12–18–62, Cl. 200—120.

Cameron, Gerald L.: *See*—
Redick, David C., Cameron, Bertsche, and Yahn. 3,020,771.

Cameron, Hugh J., to American Machine & Foundry Co. Dielectric drying of materials. 3,041,435, 6–26–62, Cl. 219—10.69.

Cameron Iron Works, Inc.: *See*—
Allen, Herbert. 3,035,452.
Allen, Herbert. 3,038,489.
Allen, Herbert. 3,045,693.
Allen, Herbert. 3,057,269.
Jones, Marvin R. 3,027,914.
Jones, Marvin R. 3,033,224.
Jones, Marvin R. 3,052,943.
Lucky, Maurice C., and Brooks. 3,036,807.
Zorgniotti, Maurice B., and Jones. 3,042,057.

Cameron, Joe. Locking device for concrete forms. 3,040,410, 6–26–62, Cl. 25—131.

Cameron and Jones, Inc.: *See*—
Brakel, Lewis H., and Jones. 3,027,147.
Jones, John B., Jr. 3,061,293.

Cameron Machine Co.: *See*—
Aaron, Charles, and Rockstrom. 3,057,571.
De Gelleke, Gerrit. 3,030,042.
Rockstrom, Leonard, and Pundyk. 3,057,572.

Cameron, Margaret D., to Monsanto Chemical Co. Process of destroying undesired plants. 3,018,175, 1–23–62, Cl. 71—2.5.

Cameron, Margaret D., to Monsanto Chemical Co. 2-(1-alkynylcycloalkyloxy) tetrahydropyrans. 3,022,319, 2–20–62, Cl. 260—345.9.

Cameron, Mortimer B., to Westinghouse Air Brake Co. Automatic coupler for railway cars. 3,067,883, 12–11–62, Cl. 213—212.

Cameron, Russell J.: *See*—
Di Tirro, Domenic A., and Cameron. 3,067,767.

Cameron, Scott H.: *See*—
Bock, Frederick C., Cameron, and Kantner. 3,053,453.

Cameron, Vardra H. Roller support arm bracket for boat trailers. 3,057,493, 10–9–62, Cl. 214—84.

Cameron, Walter G.: *See*—
Gilboy, Eric W. F., and Cameron. 3,023,482.

Cameron, Warren B. S., to Kenney Mfg. Co. Traverse rod carriers. 3,052,913, 9–11–62, Cl. 16—93.

Cameron, William M., and T. C. Zinniger, to Kaiser Industries Corp. Knockdown container joint structure. 3,055,529, 9–25–62, Cl. 220—5.

Cameron-Johnson, Alan, to Dowty Rotol Ltd. Fluid operated mechanism for steerable aircraft wheels. 3,018,986, 1–30–62, Cl. 244—50.

Cameron-Johnson, Alan, to Dowty Rotol Ltd. Hydraulic actuator systems. 3,025,674, 3–20–62, Cl. 60—54.5.

Cametti, Benjamin : *See*—
Hagg, Arthur C., and Cametti. 3,017,072.
Cametti, Benjamin, to Westinghouse Electric Corp. Dynamo-electric machine. 3,031,593, 4–24–62, Cl. 310—214.
Camilli, Guglielmo, to General Electric Co. Cooling system for electrical induction apparatus. 3,028,566, 4–3–62, Cl. 336—57.
Camilli, Guglielmo, to General Electric Co. Potential transformer. 3,028,568, 4–3–62, Cl. 336—70.
Camilli, Guglielmo, and E. R. Uhlig, to General Electric Co. Open core potential transformer. 3,028,569, 4–3–62, Cl. 336—70.
Camilli, Guglielmo, and T. W. Liao, to General Electric Co. Insulating and cooling arrangement for electrical apparatus. 3,032,728, 5–1–62, Cl. 336—60.
Camin Laboratories, Inc. : *See*—
Fialkoff, Samuel. 3,022,230.
Caminker, Bernard, and J. M. Powell. Cabinet for electrical components and the like. 3,056,639, 10–2–62. Cl. 312—108.
Camloc Fastener Corp. : *See*—
Dellith, Werner. 3,060,492.
Dellith, Werner. 3,061,349.
Griffiths, Edward G., and Johnson. 3,054,484.
Jahn, Robert E. 3,021,162.
Trotter, Walter. 3,065,012.
Cammack, Malcolm E., to Crescent Creamery Co. Apparatus for packaging frozen confections. 3,043,070, 7–10–62, Cl. 53—159.
Cammack, Rose M., F. V. Schossberger, and F. A. Ticulka, to Armour Research Foundation of Illinois Institute of Technology. Method for the preparation of a titanium solution. 3,032,393, 5–1–62, Cl. 28—87.
Cammauf, Esther V., to Hamilton Watch Co. Coil and method of winding and processing same. 3,063,136, 11–13–62, Cl. 29—155.57.
Cammell Laire & Co. (Shipbuilders & Engineers) Ltd. : *See*—
Downham, Ralph, and Taylor. 3,059,606.
Cammitz, Harold G., to Bausch & Lomb Inc. Bridge producing direct current output in response to amplitude or phase difference of alternating current input or inputs. 3,058,067, 10–9–62, Cl. 328—26.
Camp, Albert T., to Hercules Powder Co. Cast gas-producing charge containing nitrocellulose and vinyl polymers. 3,036,-939, 5–29–62, Cl. 149—19.
Camp, Albert T. Rocket with internal rod. 3,068,643, 12–18–62, Cl. 60—35.6.
Camp, Clement W., to Worthington Corp. Flow control means for a pumping station. 3,043,226, 7–10–62, Cl. 103—226.
Camp, John E., J. C. Mueller, Jr., F. G. Sandholdt, and G. L. Haywood, to Norton Co. Abrasive product. 3,020,139, 2–6–62, Cl. 51—295.
Camp, John M. : *See*—
Eckel, John E., and Camp. 3,036,646.
Camp, Leon W., to The Bendix Corp. Apparatus for generating sonic vibrations in liquids. 3,058,014, 10–9–62, Cl. 310—8.7.
Camp, William A., to Well Surveys, Inc. Apparatus for measuring the displacement of a well tool from an adjacent surface. 3,023,507, 3–6–62, Cl. 33—178.
Camp, William A., to Well Surveys, Inc. Retractor device for oil well logging tool. 3,058,227, 10–16–62, Cl. 33—178.
Campagna, Louis. Incense burner. 3,058,178, 10–16–62, Cl. 29—116.
Campagnolo, Tullio. Clothes hanging device. 3,070,270, 12–25–62, Cl. 223—95.
Campanaro, Nicholas : *See*—
Krueger, Theodore H., and Campanaro. 3,037,477.
Campanelli, John P. : *See*—
Goodwin, Carl W., and Campanelli. 3,054,144.
Campau, Loyola E. Panty pad. 3,044,467, 7–17–62, Cl. 128—290.
Campbell, Alan M., and L. P. Entin, to Minneapolis-Honeywell Regulator Co. Control apparatus. 3,030,595, 4–17–62, Cl. 336—30.
Campbell, Alastair : *See*—
Bovingdon, Hyett H. S., and Campbell. 3,035,970.
Campbell, Alfred D., to Standard Brands Inc. Irish moss food product. 3,031,308, 4–24–62, Cl. 99—131.
Campbell, Arthur W., to Commercial Solvents Corp. Process for the production of alkylacylamides. 3,015,674, 1–2–62, Cl. 260—561.
Campbell, Carl M., Jr., to Burroughs Corp. Semi-conductor adder. 3,023,965, 3–6–62, Cl. 235—176.
Campbell, Carl M., Jr., to Burroughs Corp. Monostable multivibrator for generating temperature-stable precise duration pulses. 3,025,417, 3–13–62, Cl. 307—88.5.
Campbell, Carl M., Jr., to Burroughs Corp. Non-saturating transistor flip-flop utilizing inductance means for switching. 3,042,814, 7–3–62, Cl. 307—88.5.
Campbell, Carl M., Jr., to Burroughs Corp. High-speed, non-saturating transistor steering flip-flop. 3,042,815, 7–3–62, Cl. 307—88.5.
Campbell, Carl M., Jr., to Burroughs Corp. Shift register. 3,050,714, 8–21–62, Cl. 340—173.
Campbell, Charles A. Decimal to binary and binary-decimal to binary converter. 3,064,894, 11–20–62, Cl. 235—155.

Campbell, Charles R. : *See*—
Chadwick, David H., Campbell, and Metzger. 3,064,030.
Chapman, Richard D., Campbell, and Johnson. 3,023,238.
Murray, Charles A., Campbell, and Richard. 3,033,808.
Campbell, Charles R., R. D. Chapman, and R. Johnson, to The Chemstrand Corp. Method for the purification of hexamethylenediamine. 3,017,331, 1–16–62, Cl. 202—71.
Campbell, Claude N., Jr., to Weyerhaeuser Co. Filling machines. 3,022,841, 2–27–62, Cl. 177—80.
Campbell, Clement : *See*—
Gordon, Saul, and Campbell. 3,018,654.
Campbell, D. J., Co., Inc : *See*—
Fink, Richard R. 3,044,157.
Campbell, David D. : *See*—
Bell, Gregory E., Campbell, and Fox. 3,037,391.
Campbell, David L. Method of making spectacle lenses. 3,015,196, 1–2–62, Cl. 51—284.
Campbell, David O., and G. I. Cathers, to the United States of America, Atomic Energy Commission. Separation of metal values from nuclear reactor poisons. 3,039,847, 6–19–62, Cl. 23—14.5.
Campbell, David R. Produce grading machine. 3,035,696, 5–22–62, Cl. 209—121.
Campbell, David S., to Cardwell Westinghouse Co. Selective travel draft gear with increased travel in bluff. Re. 25,273, 10–30–62, Cl. 213—44.
Campbell, Don G. : *See*—
Clark, Earnest H., Jr., and Campbell. 3,054,452.
Campbell, Earl C., to Baker Oil Tools, Inc. Well packer apparatus. 3,055,430, 9–25–62, Cl. 166—122.
Campbell, Donald H., to Hooker Chemical Corp. Stabilization of perchloroethylene. 3,040,108, 6–19–62, Cl. 260—652.5.
Campbell, Donald J., to The Baldwin Piano Co. Pre-set combination stop means for electrical organs. 3,063,324, 11–13–62, Cl. 84—1.01.
Campbell, Donald N. : *See*—
Spracklen, Stanford B., Campbell, and Fellows. 3,041,869.
Campbell, Earl L. Adjustable bed for truckers. 3,067,437, 12–11–62, Cl. 5—118.
Campbell, Edgar C., and F. F. Timpner, to General Motors Corp. Distributor. 3,045,458, 7–24–62, Cl. 64—25.
Campbell, Ernest C., Jr. Letter opener. 3,068,569, 12–18–62, Cl. 30—294.
Campbell, Ernest F., to United States of America, Navy. Ordnance mount and supporting structure therefor. 3,045,-554, 7–24–62, Cl. 89—37.
Campbell, Ernest F., to United States of America, Navy. Weapon mount. 3,048,087, 8–7–62, Cl. 89—41.
Campbell, Erwin J., to Acheson Industries, Inc. Method of casting metal in a coated mold, and composition and method for coating the casting mold. 3,035,318, 5–22–62, Cl. 22—200.
Campbell, Eugene W. Furniture construction. 3,058,778, 10–16–62, Cl. 297—432.
Campbell, Floyd V. : *See*—
Rogers, Robert N., 3,039,413.
Campbell, Francis S., to Sperry Rand Corp. Radio beam coupler. 3,058,698, 10–16–62, Cl. 244—77.
Campbell, Frank G. Bubble forming devices. 3,064,387, 11–20–62, Cl. 46—7.
Campbell, Frank S. Wire and rod coding apparatus. 3,031,951, 5–1–62, Cl. 101—4.
Campbell, Frank S., J. R. Frank, and M. J. Charles, to CFC Corp. Outlet box cover. 3,015,408, 1–2–62, Cl. 220—3.4.
Campbell, Frank S., J. R. Frank, and M. J. Charles, to CFC Corp. Outlet box cover. 3,015,409, 1–2–62, Cl. 220—3.4.
Campbell, George A., and D. K. Howard, to The Geigy Co. Ltd. Saponaceous detergents. 3,026,265, 3–20–62, Cl. 252—117.
Campbell, Harold E., J. L. Coffey, and J. A. Connolly, to Roland Offsetmaschinenfabrik Faber & Schleicher AG. Safety trip means for sheet feeding mechanism. 3,065,961, 11–27–62, Cl. 271—57.
Campbell, Harris S., to Eastern Rotorcraft Corp. Limit stop for cargo release mechanism. 3,028,188, 4–3–62, Cl. 294—83.
Campbell, Harris S., to Eastern Rotorcraft Corp. Device for engaging and releasing loads. 3,032,365, 5–1–62, Cl. 294—83.
Campbell, Harris S., to Eastern Rotorcraft Corp. Universal sling systems. 3,046,045, 7–24–62, Cl. 294—74.
Campbell, Harris S., to Eastern Rotorcraft Corp. Rapid loading cargo release hook. 3,068,034, 12–11–62, Cl. 294—83.
Campbell, Harry T., Sons' Corp. : *See*—
Hatfield, Robert W. 3,057,306.
Campbell, Hugh C., to E. I. du Pont de Nemours and Co. Stabilized saturated cyclic ether compositions. 3,029,254, 4–10–62, Cl. 260—345.1.
Campbell, Hugh C., to E. I. du Pont de Nemours and Co. Stabilized saturated cyclic ether compositons. 3,029,257, 4–10–62, Cl. 260—346.1.
Campbell, Hugh E., to General Electric Co. Electric contact element. 3,041,118, 6–26–62, Cl. 310—244.
Campbell, Hugh E., to General Electric Co. Carbon bearings with molybdenum disulphide inserts. 3,062,599, 11–6–62, Cl. 308—239.
Campbell, Huntly M. : *See*—
Grenell, Leland H., and Campbell. 3,034,204.

Campbell, Huntly M., to Olin Mathieson Chemical Corp. Method of making a heat exchanger. 3,056,189, 10–2–62, Cl. 29—157.3.
Campbell, Iain B., to Babcock & Wilcox, Ltd. Atomizing oil burner nozzle. 3,019,990, 2–6–62, Cl. 259—125.
Campbell, Ivor E., and J. H. Oxley, to Diamond Alkali Co. Method of producing chromium. 3,043,679, 7–10–62, Cl. 75—26.
Campbell, Ivor E., and G. H. Kesler, to Chilean Nitrate Sales Corp. Process for the production of titanium tetraiodide. 3,062,615, 11–6–62, Cl. 23—87.
Campbell, J Allan: *See*—
Babcock, John C., and Campbell. 3,064,013.
Babcock, John C., Campbell, Herr, Hogg, and Pederson. 3,016,387.
Campbell, J Allan, and J. C. Babcock, to The Upjohn Co. 7-methyl-4,6-androstadienes. 3,029,263, 4–10–62, Cl. 260—397.45.
Campbell, James D.: *See*—
Chase, Walter M., Gustafson, Hall, Kievens, Campbell, and Porciuncula. 3,031,615.
Campbell, James E., M. H. Roe, and M. E. Wheelock, to North American Aviation, Inc. Augmented control system. 3,027,120, 3–27–62, Cl. 244—76.
Campbell, James F., and R. M. Swick, to General Motors Corp. Co-ordinated main and afterburner fuel controls for a turbojet. 3,067,576, 12–11–62, Cl. 60—35.6.
Campbell, James M.: *See*—
Conn, Robert C., and Campbell. 3,040,045.
Campbell, James R. Method and apparatus for resistance welding. 3,015,715, 1–2–62, Cl. 219—117.
Campbell, James S., to Chrysler Corp. High pressure ball relief valve. 3,053,270, 9–11–62, Cl. 137—469.
Campbell, James W., to Cayton Chemical Corp. Facial mask. 3,038,470, 6–12–62, Cl. 128—146.
Campbell, Jeptha E., Jr.: *See*—
Murthy, Gopala K., Campbell, Masurovsky, and Edmondson. 3,020,161.
Campbell, John, to Air Reduction Co., Inc. Electrode. 3,062,947, 11–6–62, Cl. 219—74.
Campbell, John B., to E. I. du Pont de Nemours and Co. Diene-modified polymers and elastomers therefrom. 3,036,-997, 5–29–62, Cl. 260—77.5.
Campbell, John E., to Polaroid Corp. Fluid containers. 3,056,491, 10–2–62, Cl. 206—56.
Campbell, John E., to Polaroid Corp. Fluid containers. 3,056,492, 10–2–62, Cl. 206—56.
Campbell, John F. Nozzle construction. 3,057,560, 10–9–62, Cl. 239—464.
Campbell, John R. Fluid drive and brake system. 3,059,416, 10–23–62, Cl. 60—19.
Campbell, John R., and R. E. Hatton, to Monstanto Chemical Co. Aryl phenyl a,a,a-trifluoro-m-tolyl phosphines and oxides thereof. 3,020,315, 2–6–62, Cl. 260—606.5.
Campbell, Joseph K., to Sperry Rand Corp. Forage harvester. 3,027,701, 4–3–62, Cl. 56—24.
Campbell, Leonard, and A. L. Peterson, to Wood Newspaper Machinery Corp. Pneumatic web control device. 3,039,714, 6–19–62, Cl. 242—75.42.
Campbell, Lester H. Saw sickle. 3,015,930, 1–9–62, Cl. 56—239.
Campbell, Lyman L.: *See*—
Markley, John F., Bartlo, Brigham, and Campbell. 3,055,054.
Campbell, Max L.: *See*—
Campbell, Ralph L. and M. L. 3,053,513.
Campbell, Milford A. Hopper fed conveyor. 3,049,216, 8–14–62, Cl. 198—33.
Campbell, Milton O. Spark plug. 3,046,435, 7–24–62, Cl. 313—143.
Campbell, Ned G., to Norman Products Co. Fluid fuel flow control system for forced draft heating units. 3,042,769, 7–3–62, Cl. 200—83.
Campbell, Norman B., and L. Berthiaume, to Canadian Celanese Ltd. Manufacture of cellulose esters of aliphatic acids. 3,041,329, 6–26–62, Cl. 260—227.
Campbell, Oren R., Jr., and C. L. McHolland. Closed circuit television system. 3,033,922, 5–8–62, Cl. 178—5.6.
Campbell, Paul E., to Phillips Petroleum Co. Method of welding butted pipe sections of polyethylene to form a reinforced joint. 3,022,209, 2–20–62, Cl. 156—158.
Campbell, Paul E., to Phillips Petroleum Co. Sled or toboggan. 3,034,800, 5–15–62, Cl. 280—18.
Campbell, Paul G., to General Motors Corp. Auxiliary scale for ultrasonic thickness measuring means. 3,022,661, 2–27–62, Cl. 73—67.8.
Campbell Pharmaceuticals, Inc.: *See*—
Lehman, Robert A. 3,036,957.
Campbell, Ralph L. and M. L. Baseboard hot water heating assembly. 3,053,513, 9–11–62, Cl. 257—162.
Campbell, Raymond W. Sub-frame for motor vehicles. 3,015,-496, 1–2–62, Cl. 280—150.
Campbell, Richard T.: *See*—
Brown, Calvin F., Jackson, and Campbell. 3,045,598.
Campbell, Robert H.: *See*—
Baumann, Karl E., Campell, and Marsala. 3,067,501.
Campbell, Robert K.: *See*—
Baluck, Francis M., Campbell, and Hansen. 3,052,278.
Campbell, Robert M., Jr. Case positioner. 3,036,414, 5–29–62, Cl. 53—67.
Campbell, Robert R. Book rack. 3,063,567, 11–13–62, Cl. 211—43.
Campbell, Robert S., and E. A. Schulz, to Crane Packing Co. Grit distributing apparatus. 3,028,711, 4–10–62, Cl. 51—263.
Campbell, Robert W.: *See*—
Raver, Louis J., and Campbell. 3,059,169.
Campbell, Rodney B., to Idaho Maryland Mines Corp. Optical liquid-level gage. 3,049,011, 8–14–62, Cl. 73—327.
Campbell, Samuel J.: *See*—
Barlament, Norval S., and Campbell. 3,049,954.
Campbell, Sherman B., to Lord Mfg. Co. Flexible coupling. 3,034,321, 5–15–62, Cl. 64—11.
Campbell Soup Co.: *See*—
Early, James R., and Morgan. 3,069,530.
Johannes, Erich H. L. 3,061,440.
Sillars, Frederick S. 3,056,368.
Campbell, Spencer C., and G. C. Coleman. Sawhorse. 3,024,865, 3–13–62, Cl. 182—186.
Campbell, Thomas C.: *See*—
Bell, Robert H., and Campbell. 3,060,998.
Campbell, Tod W., to E. I. du Pont de Nemours and Co. Copolymers of 4-methyl-1-pentene and 1-olefins. 3,029,215, 4–10–62, Cl. 260—33.6.
Campbell, Vernon J.: *See*—
Prince, William H., and Campbell. 3,052,466.
Campbell, Ward C., to Owens-Illinois Glass Co. Method of and apparatus for making plastic articles. 3,052,916, 9–11–62, Cl. 18—5.
Campbell, William S., to M. & C. Conveyors, Inc. Adjustable case stacker. 3,039,624, 6–19–62, Cl. 214—6.
Campbell, William A. Tool for hair-cutting and other purposes. 3,035,346, 5–22–62, Cl. 30—133.
Campbell, William G.: *See*—
Hurst, George H., Jr., and Campbell. 3,052,135.
Campbell, William H., to The Goodyear Tire & Rubber Co. Pneumatic tire construction. 3,062,257, 11–6–62, Cl. 152—354.
Camping, Gertrude W.: *See*—
Camping, Ralph and G. W. 3,020,518.
Camping, Ralph and G. W. Solderless electrical connectors. 3,020,518, 2–6–62, Cl. 339—191.
Campling, Charles H. R.: *See*—
Bennett, James A., and Campling. 3,026,484.
Campman, Arthur R.: *See*—
Kopelman, Edward, and Campman. 3,048,198.
Campman, Herbert W., Jr.: *See*—
Rayner, Paul F., Thompson, Walker, Pfeifer, Campman, and Boothroyd. 3,026,638.
Camras, Marvin, to Armour Research Foundation of Illinois Institute of Technology. Single spool magazine tape recorder. 3,025,011, 3–13–62, Cl. 242—55.13.
Camras, Marvin, to Armour Research Foundation of Illinois Institute of Technology. Transducer head system. 3,040,-124, 6–19–62, Cl. 178—6.6.
Camras, Marvin, to Armour Research Foundation of Illinois Institute of Technology. Magnetic head and method of making same. 3,049,790, 8–21–62, Cl. 29—155.5.
Camras, Marvin, to Armour Research Foundation of Illinois Institute of Technology. Electromagnetic transducer head. 3,053,939, 9–11–62, Cl. 179—100.2.
Camson Mfg. Co., The: *See*—
Pino, Fred W., Jr. 3,023,444.
Camusi, Romaine. Method for the application of starch to fabrics. 3,062,687, 11–6–62, Cl. 117—165.
Camzi, Jules P. Electric contact member. 3,031,641, 4–24–62, Cl. 339—256.
Canada, George B., Sr. Combined fishhook retriever and float. 3,036,397, 5–29–62, Cl. 43—17.2.
Canada, Her Majesty the Queen in the right of, as represented by the Minister of National Defence: *See*—
Casey, Edmund J., Lake, and Nagy. 3,068,310.
Cobbold, Richard S. C. 3,030,525.
Cobbold, Richard S. C. 3,053,997.
Forsyth, Peter A. 3,054,895.
Morris, Victor S. 3,027,715.
Nordland, Oskar S. 3,054,650.
Parker, George F. 3,032,907.
Smith, Donald E., and Gibson. 3,045,635.
Wilson, John O. 3,044,018.
Wright, Jerauld G. 3,062,437.
Canada, Her Majesty the Queen in right of, as represented by the Minister of Mines and Technical Surveys: *See*—
Mitchell, Earland R., and Friedrich. 3,044,422.
Sersou, Paul H. 3,070,745.
Canada, Her Majesty the Queen in the right of, as represented by the Postmaster General: *See*—
Levy, Maurice M. 3,015,389.
Canada Iron Foundries Ltd.: *See*—
Stewart, John K. 3,035,529.
Canada Wire and Cable Co. Ltd.: *See*—
Papp, Andre V. 3,039,430.
Canadair Ltd.: *See*—
Parker, Arnold G. 3,027,714.
Canadian Pratt & Whitney Aircraft Co. Ltd.: *See*—
Harris, George J. 3,030,260.
Jones, Elwyn D. 3,027,753.
Peterson, Gudmundur P. 3,017,922.
Promislow, Albert L., and Waldman. 3,016,743.
Sefton, Verner B., and Sharman. 3,031,263.
Canadian Celanese Ltd.: *See*—
Campbell, Norman B., and Berthiaume. 3,041,329.
Canadian Chemical Co., Ltd.: *See*—
Clunie, John C., and Tollefson. 3,066,171.

Canadian General Electric Co., Ltd.: *See*—
Howard, John F., 3,038,051.
Canadian Industries Ltd.: *See*—
Aitken, Roger G., 3,051,594.
Baugh, Francis H., Jones, and Wood, 3,063,007.
Graham, Neil B., and Segall, 3,056,764.
Jones, Elwyn D., and Wood, 3,037,162.
Matthews, Frederick W., and Morf, 3,044,849.
Rowley, Edward K., and West, 3,051,018.
Tanner, Walter, and White, 3,058,420.
Canadian International Paper Co.: *See*—
Mutton, Donald B., 3,061,504.
Read, Douglas E., Cranford, Major, and Smith, 3,057,-187.
Canadian Marconi Co.: *See*—
Clegg, Keith C. M., 3,024,459.
Canadian National Railway Co.: *See*—
Fairweather, Starr W., 3,017,840.
Canadian Patents and Development Ltd.: *See*—
Atkinson, Francis E., and Bowen, 3,041,175.
Miller, Donald G., 3,038,329.
Smialowski, Antoni J., Vogelfanger, Fischer, and Connock, 3,038,259.
Smialowski, Antoni J., Vogelfanger, Fischer, and Connock, 3,057,355.
Canadian Westinghouse Co., Ltd.: *See*—
Brouwer, Frans, 3,017,552.
Canfor, Kenneth, Goba, Tiley, and Oldfield, 3,026,471.
Currey, Charles F., 3,023,353.
Digre, Joseph, 3,069,008.
Hulls, Leonard R., 3,036,266.
Hulls, Leonard R., 3,062,078.
Kenyeres, Nicholas, and Anderson, 3,054,934.
Lipinski, Andrew J., 3,018,370.
Tiley, Gerald L., Oldfield, and Wykes, 3,058,547.
Canalizo, Carlos R., to Otis Engineering Corp. Automatic intermitting device. 3,028,815, 4–10–62, Cl. 103—232.
Canalizo, Carlos R., and S. J. Graves, to Otis Engineering Corp. Gas powered timer. 3,064,628, 11–20–62, Cl. 121—48.
Caman, Walter T. Method and means for introducing flavor imparting agents into manufactured tobacco articles. 3,026,881, 3–27–62, Cl. 131—144.
Canarios, Chrysostbenis M., V. J. Weir, and R. W. Lerner, to Ferro Chemical Co. Metallo-phosphorous salts and use as polyvinyl chloride stabilizers. 3,030,334, 4–17–62, Cl. 260—45.75.
Canavan, Joseph M. Nozzle construction. 3,047,239, 7–31–62, Cl. 239—579.
Canavotto, Harry H. Control device for metered vehicles. 3,039,556, 6–19–62, Cl. 180—82.
Canazzi, Henry D. Four point planing type of speed boat hull. 3,051,115, 8–28–62, Cl. 114—56.
Candee, Allan H., and G. O. Richmond. Apparatus for testing gears. 3,044,176, 7–17–62, Cl. 33—179.5.
Candelise, Alfred, to General Motors Corp. Air injection system for an internal combustion engine. 3,017,872, 1–23–62, Cl. 123—26.
Candelise, Alfred, to General Motors Corp. Air injection system for an internal combustion engine. 3,019,777, 2–6–62, Cl. 123—26.
Candelise, Alfred, to General Motors Corp. Air injection system for an internal combustion engine. 3,043,281, 7–10–62, Cl. 123—26.
Candell, Ralph L.: *See*—
Kass, Conrad, and Candell. 3,054,947.
Candellero, Giovanni: *See*—
Cordiano, Ettore, and Candellero. 3,051,273.
Candle Heat Appliance Corp.: *See*—
Greenwald, Samuel. 3,034,496.
Candy, Charles J. N.: *See*—
Chaplin, George B. B., Owens, and Candy. 3,069,559.
Cane, Albert: *See*—
Delangre, John P., and Cane. 3,015,989.
Canegallo, Giovanni, ½ to S.E.C.I.-Società Elettrotecnica Chimica Italiana S.p.A. Method of making covered electrical resistors. 3,055,084, 9–25–62, Cl. 29—155.63.
Canevari, Frederick J.: *See*—
Bertram, Joseph J., and Canevari. 3,054,081.
Canevari, Gerard P. Vapor-liquid contacting apparatus. 3,070,359, 12–25–62. Cl. 261—113.
Canfield, Eugene B.: *See*—
Bailey, Francis M., and Canfield. 3,019,711.
Canfield, Eugene B., to General Electric Co. Integrating and differentiating accelerometer. 3,044,305, 7–17–62, Cl. 73—503.
Canfield, H. O., Co., The: *See*—
Reahard, Daniel F. 3,067,083.
Canfor, Kenneth, F. A. Goba, G. Tiley, and E. Oldfield, to Canadian Westinghouse Co., Ltd. Inductive devices. 3,026,471, 3–20–62, Cl. 323—89.
Canick, Leon N.: *See*—
Aldrich, Charles S., and Canick. 3,060,286.
Cann, Arthur F., to Stevens-Arnold Inc. Revolution indicating systems. 3,054,950, 9–18–62, Cl. 324—70.
Cann, Frank E., Jr., to Hodgman Mfg. Co., Inc. Dry pendent sprinkler head. 3,061,015, 10–30–62, Cl. 169—41.
Cannell, John E., to Unilever Ltd. Pricking machines. 3,028,893, 4–10–62, Cl. 146—56.
Canning, Pekara, Inc.: *See*—
Guigli, Emil. 3,064,851.
Cannon, Agnes: *See*—
Evans, Leonard D., and Cannon. 3,023,509.
Cannon Chain Breaker Co., Ltd.: *See*—
Cannon, Sherwood F. 3,063,236.
Cannon, Colbert H. Safety device for trigger guard. 3,022,-596, 2–27–62, Cl. 42—1.
Cannon, Donald S., to American Cyanamid Co. Method of controlling nematodes employing thiothiazolines. 3,026,245, 3–20–62, Cl. 167—33.
Cannon, Earl. Die casting machine. 3,058,179, 10–16–62, Cl. 22—68.
Cannon Electric Co.: *See*—
Conrad, Thomas W. 3,018,418.
Robb, Ian E., and Langzettel. 3,065,446.
Wilson, Robert E. 3,043,925.
Cannon, George E., C. R. Overly, J. E. Root III, and T. Pennington II, to Jersey Production Research Co. Abrasion resistant stepped blade rotary drill bit. 3,059,708, 10–23–62, Cl. 175—393.
Cannon, Guy H., to The Dow Chemical Co. Solid fuel and heating element for gas-cooled nuclear reactors. 3,047,487, 7–31–62, Cl. 204—193.2.
Cannon, Joseph G., to Wisconsin Alumni Research Foundation. S-KO-2-quinoline acrylic acid and lamer alkyl esters thereof. 3,056,790, 10–2–62, Cl. 260—287.
Cannon, Madison M., to Bird Machine Co. Screening device. 3,029,951, 4–17–62, Cl. 210—298.
Cannon, Martin A. Sewing machine cabinet. 3,062,605, 11–6–62, Cl. 312—26.
Cannon, Maxwell R., to International Business Machines Corp. Integrator circuit and print quality inspection system embodying the same. 3,056,032, 9–25–62, Cl. 250—219.
Cannon, Sherwood F., to Cannon Chain Breaker Co. Ltd. Saw chain drive punch having pivoted jaws. 3,063,236, 11–13–62, Cl. 59—7.
Cannon, William D., to The Western Union Telegraph Co. Delay and amplitude corrective system. Re. 25,285, 11–13–62, Cl. 330—120.
Cannon, William N., to Eli Lilly and Co. Stabilization of ethylmercurithiosalicylic acid. 3,031,485, 4–24–62, Cl. 260—434.
Canny, Floyd H., to Smith-Corona Marchant Inc. Quick-change ribbon mechanism. 3,062,351, 11–6–62, Cl. 197—160.
Cano, Luis C. Record album rack with improved hinge. 3,017,999, 1–23–62, Cl. 211—40.
Canon Camera Co., Inc.: *See*—
Goshima, Takeshi. 3,051,067.
Ito, Hiroshi, and Yamaji. 3,053,136.
Mukai, Jiro. 3,023,671.
Mukai, Jiro. 3,033,080.
Mukai, Jiro. 3,040,624.
Mukai, Jiro. 3,066,575.
Yamaji, Keizo. 3,027,805.
Canonica, Luigi, to Istituto Biochimico Italiano. Method of preparing 3-alkoxy-4- hydroxybenzoic acids and dialkylamides thereof. 3,019,257, 1–30–62, Cl. 260—520.
Canrad Precision Industries: *See*—
Feuer, Irving. 3,053,413.
Can-Rite, Inc.: *See*—
Hitchcock, Eugene B. 3,070,398.
Cantalupo, Francis J., E. P. De Craene, and J. P. Doelger, to Crane Co. Detachable valve actuating means. 3,034,-371, 5–15–62, Cl. 74—423.
Canter, George G. and G. G. Tamper-proof sheet metal seal. 3,068,033, 12–11–62, Cl. 292—317.
Canter, Gilbert G.: *See*—
Canter, George G. and G. G. 3,068,033.
Canter, James A., to General Motors Corp. Refrigerating apparatus. 3,034,314, 5–15–62, Cl. 62—180.
Canterino, Peter J.: *See*—
Werkman, Robert T., and Canterino. 3,049,455.
Wheelock, Charles E., and Canterino. 3,022,322.
Canterino, Peter J., to Phillips Petroleum Co. Well drilling fluid and process. 3,025,234, 3–13–62. Cl. 252—8.5.
Canterino, Peter J. to Phillips Petroleum Co. Method of coating metals with thermoplastic materials. 3,044,899, 7–17–62, Cl. 117—132.
Canterino, Peter J., to Phillips Petroleum Co. Halogenated polymer and process for producing same. 3,060,164, 10–23–62, Cl. 260—94.9.
Canterino, Peter J., and J. T. Edmonds, Jr., to Phillips Petroleum Co. Vulcanizable halogenated polyethylene compositions containing phosphorus. 3,023,180, 2–27–62, Cl. 260—27.
Canterino, Peter J., and B. Franzus, to Phillips Petroleum Co. Polymerization of aryl olefins. 3,050,510, 8–21–62, Cl. 260—93.5.
Cantil, George. Seam binder and shirrer attachment. 3,029,-760, 4–17–62, Cl. 112—152.
Cantin, Roland. Means for eliminating the effect of polar attraction in electric generators. 3,051,857, 8–28–62, Cl. 310—74.
Cantlin, John H., and A. J. Hildenbrandt, to The Wilcolator Co. Gas oven control. 3,045,689, 7–24–62, Cl. 137—66.
Cantonwine, Charles R. Electric motor construction. 3,031,-606, 4–24–62, Cl. 318—221.
Cantonwine, Charles R. Electric motor construction. 3,068,-389, 12–11–62, Cl. 318—220.
Cantonwine, Elma E., and W. R. Marsh. Head rest for shampoo purposes. 3,064,272, 11–20–62, Cl. 4—159.

Cantor, Abraham, and M. W. Winicov, to West Laboratories, Inc. Germicidal compositions and methods for preparing the same. 3,028,300, 4–3–62, Cl. 167—17.

Cantor, Sol M. Matrix guiding means for line casting machines. 3,037,614, 6–5–62, Cl. 199—27.

Cantor, Sol M. Resilient guiding means for type casting machines. 3,037,615, 6–5–62, Cl. 199—27.

Cantrall, Edward W.: *See*—
Bernstein, Seymour, Cantrall, and Littell. 3,031,469.
Bernstein, Seymour, Cantrall, and Littell. 3,031,470.
Bernstein, Seymour, Cantrall, and Littell. 3,031,471.
Bernstein, Seymour, Cantrall, and Littell. 3,031,472.

Cantrall, Edward W., and S. Bernstein, to American Cyanamid Co. 16,17-disubstituted progesterones. 3,019,219, 1–30–62, Cl. 260—239.55.

Cantrall, Edward W., S. Gordon, and S. Bernstein, to American Cyanamid Co. Substituted androst-5-enes, salts and methods of preparing the same. 3,060,204, 10–23–62, Cl. 260—397.5.

Cantrel, Kenneth E.: *See*—
Goodhue, Lyle D., and Cantrel. 3,034,950.
Goodhue, Lyle D., and Cantrel. 3,044,930.
Goodhue, Lyle D., and Cantrel. 3,055,803.
Goodhue, Lyle D., Cantrel, and Louthan. 3,067,093.
Goodhue, Lyle D., Louthan, and Cantrel. 3,023,142.

Cantrell, Herbert L. Pie wash. 3,042,527, 7–3–62, Cl. 99—92.

Cantrell, Troy L., E. E. Fisher, and J. G. Peters, to Gulf Research & Development Co. Wire rope lubricant. 3,029,203, 4–10–62, Cl. 252—57.

Cantwell, Edward G., R. S. Curl, and S. O. Linzell. Portable traffic signal system. 3,046,521, 7–24–62, Cl. 340—41.

Cantwell, Hugh F.: *See*—
Davies, David O., and Cantwell. 3,062,005.

Capanna, Adolfo A.: *See*—
Mersereau, Robert E., and Capanna. 3,069,157.

Capanna, Adolfo A., to Pitney-Bowes, Inc. Binary coded track means. 3,033,344, 5–8–62, Cl. 198—38.

Caparosa, Ralph J., to Redi-Knot Corp. Bow tie structures. 3,052,937, 9–11–62, Cl. 24—49.

Caparosa, Ralph J., to Redi-Knot Inc. Bow tie structures. 3,069,689, 12–25–62, Cl. 2—154.

Capdeville, Ignatius C.: *See*—
Voorhees, Edward M. 3,022,693.

Cape, Arthur T., to Coast Metals, Inc. Application of cobalt-base alloys to metal parts. 3,035,934, 5–22–62, Cl. 117—22.

Cape, Arthur T., to Coast Metals, Inc. Hard facing alloys. 3,060,017, 10–23–62, Cl. 75—128.

Cape, Richard A. G., to Dominion Bridge Co., Ltd. Vessel linings. 3,029,974 4–17–62, Cl. 220—63.

Capehart, Lonnie R., to Capehart-Zbitnoff Corp. Carburetor device. 3,026,030, 2–6–62, Cl. 261—36.

Capehart-Zbitnoff Corp.: *See*—
Capehart, Lonnie R. 3,020,030.

Capella, Primo J.: *See*—
Blank, Lawrence, and Capella. 3,031,359.

Capellaro, Natalle, to Ing. C. Olivetti & C. S.p.A. Differential mechanism for value entry, tens transfer and total taking. 3,029,014, 4–10–62, Cl. 235—60.31.

Capellaro, Natale, and T. Gassino, to Ing. C. Olivetti & C., S.p.A. Function control mechanism for manual adding machines. 3,040,977, 6–26–62, Cl. 235—60.

Capener, Erwin L.: *See*—
Berglund, Lawrence W., Capener, and Harrison. 3,041,298.

Capener, Erwin L., D. D. Ordahl, and S. Shefler, to United States of America, Navy. Method of inhibiting propellant grain cracking. 3,048,076, 8–7–62, Cl. 86—1.

Caperton, Charles B. Rod reel device. 3,039,715, 6–19–62, Cl. 242—82.

Capetta, Albert. Process for the realization of a relief screen and screen obtained by the process. 3,037,424, 6–5–62, Cl. 88—28.9.

Capewell Mfg. Co., The: *See*—
Craven, Wilbur J., and Mueck. 3,023,645.
Warner, Alden Y., and Sawina. 3,065,513.

Capital Plastics, Inc.: *See*—
Broderson, Neil O. 3,041,670.

Capitol Broadcasting Co., Inc.: *See*—
Duncan, Virgil D. 3,065,432.

Capitol Products Corp.: *See*—
Avila, Abelardo G. 3,023,713.
Braginetz, Paul A. 3,025,693.
Braginetz, Paul A. 3,045,464.
Graham, Donald C. 3,039,575.
Graham, Donald C. 3,046,852.
Stram, George. 3,020,018.
Stram, George, McIntyre, and Geiselman. 3,043,434.
Stram, George, McIntyre, and Thomas. 3,015,395.
Stram, George H. 3,064,492.

Capitol Records, Inc.: *See*—
Nessel, Jirl M. 3,039,062.
Wechsler, Paul H. 3,060,477.

Caplan, David M., to H. K. Porter, Co., Inc. Flexible hose. 3,050,087, 8–21–62, Cl. 138—121.

Caplan, Marvin. Orthopedic chair. 3,016,266, 1–9–62, Cl. 297—150.

Caplan, Max: *See*—
Suben, Morten. 3,034,757.

Caplant, Isadore, G. T. Rutlin, and D. K. Van Zile, to General Motors Corp. Method of making coated tubing. 3,069,768, 12–25–62, Cl. 29—527.

Caples, Jesse W. Vacuum hair cutting gauge. 3,015,336, 1–2–62, Cl. 132—45.

Caplette, Roland P. Remote control means for automobile electrical systems. 3,063,044, 11–6–62, Cl. 340—226.

Capone, Benjamin R.: *See*—
Roberts, Roy W., Jr., and Capone. 3,032,679.

Capp, Murray M.: *See*—
Basto, Julio H., Capp, Davison, and Garbaden. 3,037,951.

Cappelle, Norman D., and J. J. Kornacker, to Oak Mfg. Co. Fine tuning attachment. 3,065,642, 11–27–62, Cl. 74—10.27.

Cappelle, Norman D., and J. J. Kornacker, to Oak Mfg. Co. Turret turner with coaxial vernier adjustment. 3,069,639, 12–18–62, Cl. 334—57.

Cappellino, Charles P.: *See*—
Millington, Ralph E., and Cappellino. 3,061,897.

Capps, John P. Apparatus for simulating atomic and planetary motion. 3,045,362, 7–24–62, Cl. 35—19.

Cappuccio, Vittorio, A. Monaci, and A. Bonvicini, to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Shaped articles of propylene polymers having modified surface characteristics and method of making the same. 3,022,191, 2–20–62, Cl. 117—118.

Capra, Robert P. Speech facilitating attachment for throat tube. 3,066,674, 12–4–62, Cl. 128—351.

Capri Equipment Co., The: *See*—
Prince, William H., and Campbell. 3,052,466.

Caprio, Donald J., L. Wyckoff, and L. R. Coe, to Owens-Corning Fiberglas Corp. Expendable pallet. 3,043,450, 7–10–62, Cl. 214—10.5.

Caprio, Mario J.: *See*—
McNamara, James H., Caprio, and Miller. 3,035,932.

Capron, Nicholas J.: *See*—
Soderman, Burton E., and Capron. 3,053,807.

Caps, Arthur W., and A. N. Rittinger, to Photostat Corp. Automatic copying camera. 3,045,540, 7–24–62, Cl. 88—24.

Caps Ltd.: *See*—
Frankel, Gerald. 3,045,567.

Capsuto, Leon: *See*—
Higgins, Thomas W., Capsuto, and Bruins. 3,018,316.

Caputo, William R.: *See*—
Suozzo, John, and Caputo. 3,040,838.

Caputo, William R., to Westinghouse Electric Corp. Electric elevator systems having service-demand devices. 3,058,546, 10–16–62, Cl. 187—29.

Caputto, Ranwel: *See*—
Wolf, Stewart G., Jr., Caputto, and Trucco. 3,026,251.

Carabateas, Philip M., to Sterling Drug Inc. 4-phenyl-1-(2-phenylsulfinylethyl)-4-propionoxypiperidine and method for its preparation. 3,052,683, 9–4–62, Cl. 260—293.4.

Carabet, George F., to The Hoover Co. Suction cleaners. 3,020,577, 2–13–62, Cl. 15—323.

Caradco Inc.: *See*—
Adams, Paul L., Zimmerman, and Bailey. 3,066,722.
Glab, William T. 3,033,695.
Sitterly, Charles K., 3,015,511.

Caramanna, George, to General Motors Corp. Breaker contact operating mechanism. 3,025,364, 3–13–62, Cl. 200—30.

Carando Machine Works: *See*—
McCoy, Thomas A. 3,025,816.

Carapico, Frank, Jr., ½ to F. Carapico, Sr., and ½ to J. D. Carapico. Apparatus for producing ice cubes. 3,046,753, 7–31–62, Cl. 62—132.

Carapico, Frank, Sr.: *See*—
Carapico, Frank, Jr. 3,046,753.

Carapico, Joseph D.: *See*—
Carapico, Frank, Jr. 3,046,753.

Carbaugh, Robert A., and G. W. Wolverton, to AMP Inc. Connector block shield. 3,056,942, 10–2–62, Cl. 339—92.

Carbert, Ralph E., A. M. Blomquist, and R. L. Kennedy, to Tel-Electronics Products Inc. Hydraulic derrick. 3,015,374, 1–2–62, Cl. 189—11.

Carbide Grinders, Inc.: *See*—
Hite, Bernard E. 3,020,681.

Carboline Co.: *See*—
Lopata, Stanley L., and Keithler. 3,056,684.

Carbon Chemical Corp.: *See*—
Butts, Richard R., and Whyte. 3,051,554.

Carbon Wool Corp.: *See*—
Abbott, William F. 3,053,775.

Carbonaire S.A.: *See*—
Myddelton, Geoffrey C. 3,016,108.
Myddelton, Geoffrey C. 3,056,999.

Carbonara, Victor E., and E. D. MacDonald, to Kollsman Instrument Corp. Celestial data computer. 3,042,296, 7–3–62, Cl. 235—61.

Carbone-Lorraine, Societe le: *See*—
Millet, Jacques. 3,046,425.
Millet, Jacques. 3,049,448.
Perrin, Jean A. 3,043,946.

Carbone, Robert A.: *See*—
Bassett, Wilbur E., and Carbone. 3,056,372.

Carboni, Rudolph A., to E. I. du Pont de Nemours and Co. Polynuclear nitrogen-containing compounds and process of making same. Re. 25,238, 9–11–62, Cl. 260—205.

Carboni, Rudolph A., to E. I. du Pont de Nemours and Co. Process for preparing pyridazine derivatives and novel fluorine-containing pyridazine derivatives. 3,022,305, 2–20–62, Cl. 260—250.

Carboni, Rudolph A., and J. C. Kauer, to E. I. du Pont de Nemours and Co. Selected polyfluorinated cyclic sulfones and preparation thereof. 3,058,993, 10–16–62, Cl. 260—327.

Carbonic Development Corp. : *See—*
Hasche, Rudolph L. 3,044,861.

Carbonic Dispenser, Inc., of California : *See—*
Jaeger, Wilbert J. 3,019,612.

Carborundum Co., The : *See—*
Bratton, Edward W. 3,053,020.
Drenning, John F. 3,051,564.
Gould, William E. 3,067,816.
Loomis, Clare A. 3,053,384.
McMullen, John C., and McKee. 3,069,238.
Nicholson, Kenneth C., and Mark. 3,035,325.
Paulson, William T. 3,058,819.
Taylor, Kenneth M. 3,058,809.
Van Der Beck, Roland R., Jr. 3,029,160.
Van Der Beck, Roland R., and Taylor. 3,041,142.

Carbrey, Robert L., to Bell Telephone Laboratories, Inc. Pulse transmission of alternate interchange code. 3,038,-029, 6–5–62, Cl. 178—26.

Carbrey, Robert L., to Bell Telephone Laboratories, Inc. Bipolar clamp for pulse modulation systems. 3,050,587, 8–21–62, Cl. 179—15.

Card, C. S., Iron Works Co. : *See—*
Card, David C. 3,022,562.
Card, David C. 3,032,222.

Card, David C., to C. S. Card Iron Works Co. Tunnel form. 3,022,562, 2–27–62, Cl. 25—131.6.

Card, David C., to C. S. Card Iron Works Co. Mining skip. 3,032,222, 5–1–62, Cl. 214—707.

Card, Donald M. : *See—*
Wagoner, Lucille E., and Card. 3,036,742.

Card, Joseph L., to Singer-Cobble, Inc. Multiple needle skip-stitch machine. 3,016,029, 1–9–62, Cl. 112—79.

Card, Joseph L., to Singer-Cobble, Inc. Apparatus for simultaneously forming rows of cut pile stitching and rows of loop pile stitching. 3,019,079, 2–6–62, Cl. 112—79.

Card, Roy T., to Singer-Cobble, Inc. Tufting machine with needle plate. 3,064,600, 11–20–62, Cl. 112—79.

Card, William N., Sr. Fork-lift attachment. 3,045,853, 7–24–62, Cl. 214—672.

Cardi, Paul, to Carlan Instruments Co. Inc. Tire valve stem clip. 3,039,510, 6–19–62, Cl. 152—427.

Cardi, Paul. Safety hose. 3,039,793, 6–19–62, Cl. 284—2.

Cardia, Antonio A., and R. R. P. Sartorio. Spear gun. 3,025,-845, 3–20–62, Cl. 124—11.

Cardinal Enterprises Ltd. : *See—*
Cook, Percy A., James, and Taylor. 3,055,055.

Carding Specialists (Canada) Ltd. : *See—*
Pickles, John. 3,023,648.
Varga, André. 3,051,993.
Varga, John M. J. 3,057,301.

Cardon, Paul B., to Minerals Refining Co. Process for producing anhydrous hydrofluoric acid. 3,029,134, 4–10–62, Cl. 23—153.

Cardon, Paul B. Process for recovering columbium and tantalum from ores and ore concentrates containing same. 3,058,825, 10–16–62, Cl. 75—121.

Cardozo, Danforth, Jr. : *See—*
Ensign, Robert H., Cardozo, Woods, and Immermann. 3,015,899.

Card-Velope R.S.V.P. : *See—*
Sawdon, Victor J. 3,061,173.

Cardwell, Jack W. : *See—*
White, James M., Cardwell, Davisson, and Brooks. 3,023,800.

Cardwell Mfg. Co. : *See—*
Barry, William R. 3,049,082.
Hardcastel, Philip P. 3,015,529.
Hardcastle, Philip P., and Prescott. 3,024,012.

Cardwell, Mintaetta W., and B. B. Powers. Novelty socks. 3,017,640, 1–23–62, Cl. 2—239.

Cardwell Westinghouse Co. : *See—*
Campbell, David S. Re. 25,273.
Peterson, Bertil E. 3,025,974.
Tucker, Herbert E. Re. 25,110.

Cardwell, William D. Plug valve operator and automatic lubricator. 3,052,255, 9–4–62, Cl. 137—246.13.

Carello, Antonio. Self-moving plant comprising a mechanical continuously working salt gathering machine in artificial salt-marshes. 3,061,953, 11–6–62, Cl. 37—1.

Carew, Herman, and A. W. Kinney, to American Can Co. Container capping mechanism. 3,061,987, 11–6–62, Cl. 53—67.

Carey, Alfred W., Jr. : *See—*
McCrory, Rollin J., Carey, and McNinch. 3,069,913.

Carey, Dwight E. : *See—*
Zupic, Carl P., and Carey. 3,065,097.

Carey, Edward J. : *See—*
Thomas, Edward R., Sonnanstine, and Carey. 3,047,227.

Carey, James E., to Shell Oil Co. Process for preparing high molecular weight epoxy-containing products from lower molecular weight polyepoxides. 3,067,170, 12–4–62, Cl. 260—47.

Carey, John F., Sr. Surveying instrument. 3,026,625, 3–27–62. Cl. 33—212.

Carey, Patrick H., Jr. : *See—*
Westberg, Walter M., and Carey. 3,064,329.

Carey, Paul P. Percussion-type drill. 3,050,032, 8–21–62, Cl. 121—28.

Carey, Paul P. Percussion mechanism and rotary drilling apparatus. 3,050,033, 8–21–62, Cl. 121—28.

Carey, Philip, Mfg. Co., The : *See—*
Fasold, George A., and Leibrook. 3,045,395.
Fasold, George A., and O'Connor. 3,067,793.
Rinker, Carl G. 3,070,791.

Carey, Raymond L. : *See—*
McConnell, William M., Bradley, Carey, and Chappell. 3,039,584.
McConnell, William M., and Carey. 3,033,025.

Carey, Robert J., and A. T. Walter, to Union Carbide Corp. Crystalline isotactic Polystyrene fibers. 3,019,077, 1–30–62, Cl. 18—54.

Carey, Ross J., to General Foods Corp. Process for preparing thin boiling starchy materials. 3,067,064, 12–4–62, Cl. 127—32.

Carey, Stuart, to Giannini Controls Corp. Proximity switch interpreter. 3,048,748, 8–7–62, Cl. 317—157.

Carey, Theresa P. Rack or support. 3,038,612, 6–12–62, Cl. 211—60.

Carey, William M., Jr., to Minneapolis-Honeywell Regulator Co. Digital data storage and manipulation circuit. 3,022,-428, 2–20–62, Cl. 307—88.

Carey, William M., Jr., to Minneapolis-Honeywell Regulator Co. Electrical counter circuitry. 3,045,127, 7–17–62, Cl. 307—88.5.

Carfagna, Armando. Mechanical seals for the stuffing boxes of rotary machines. 3,052,475, 9–4–62, Cl. 277—93.

Carfagna, Armando. Gate valve. 3,064,674, 11–20–62, Cl. 137—315.

Carfagno, Salvatore G., to Carrier Corp. Method and apparatus for rendering brine solution potable. 3,049,889, 8–21–62, Cl. 62—58.

Cargill, Inc. : *See—*
Knodt, Cloy B. 3,035,920.
MacMillan, John H., Jr., and Addicks. 3,015,373.

Carlbonum Ltd. : *See—*
Francis, Frederick G., and Neale. 3,034,917.

Carini, Ambrogio. Air conditioner suited for application to windows of civil and industrial buildings without preclusion of the movements of opening and closing the pre-existing window. 3,052,104, 9–4–62, Cl. 62—262.

Carini, Inc. : *See—*
Insolio, Thomas A., Magrini, Carini, and Clements. 3,018,587.

Carion, Alvaro M. Universal switch adapter for drill stand. 3,068,722, 12–18–62, Cl. 77—7.

Carissimi, Massimo, and F. Ravenna, to Maggioni & C. S.p.A. Method of producing a choleretic, non-cholagogic effect with alphahydroxyphenyl-cyclohexyl butyric acids. 3,027,302, 3–27–62, Cl. 167—65.

Carissimi, Vincent L., to Westinghouse Electric Corp. Control device. 3,020,380, 2–6–62, Cl. 219—20.

Carissimi, Vincent L., to Westinghouse Electric Corp. Control device. 3,020,381, 2–6–62, Cl. 219—20.

Carissimi, Vincent L., to The Bryant Electric Co. Heavy duty receptacle. 3,030,605, 4–17–62, Cl. 339—126.

Carissimi, Vincent L., to Westinghouse Electric Corp. 3,041,-427, 6–26–62, Cl. 219—20.

Carkhuff, Donald W. : *See—*
Acomb, Byron H., Penstrom, and Carkhuff. 3,029,840.

Carlan Instruments Co. Inc. : *See—*
Cardi, Paul. 3,039,510.

Carlat, Benedict, and R. H. Fidler, Jr., to Tung-Sol Electric Inc. Multiple zone semiconductor device and method of making the same. 3,049,451, 8–14–62, Cl. 148—1.5.

Carlberg, Carl E. Hedge and tree-limb trimming shears. 3,055,107, 9–25–62, Cl. 30—234.

Carlberg, Erik R., to Electrolux Aktiebolaget. Multi-purpose suction cleaner nozzle. 3,040,364, 6–26–62, Cl. 15—325.

Carlberg, Robert E., to United States of America, Navy. Below deck shipboard missile launching system. 3,044,362, 7–17–62, Cl. 89—1.7.

Carlberg, Robert E., to United States of America, Navy. Missile launching system. 3,054,330, 9–18–62, Cl. 89—1.7.

Carle, Don W. : *See—*
Donner, Walter, and Carle. 3,062,037.

Carle & Montanari, S.p.A. : *See—*
Cavalieri, Emilio. 3,058,413.

Carlen Corp. : *See—*
Carli, Carl H., Grand, and Saurino. 3,052,604.

Carleton, Branville E. : *See—*
Allen, Ely G., Lynn, and Carleton. 3,050,282.

Carli, Vincent J., and M. Hallinan, to General Electric Co. Method for assembling tongue-and-groove members with locking keys. 3,045,329, 7–24–62. Cl. 29—156.8.

Carlick, Daniel J., N. J. Kennedy, L. Kutik, and H. T. Roth, to Interchemical Corp. New polyester resins and coating compositions containing same. 3,039,979, 6–19–62, Cl. 260—21.

Carlile, Alfred E., to Talon, Inc. Method of forming sliders for slide fasteners. 3,041,714, 7–3–62, Cl. 29—409.

Carlile, Alfred E., and J. L. Vodenichar, to Talon, Inc. Automatic lock slider for slide fasteners. 3,038,228, 6–12–62, Cl. 24—205.14.

Carlin, Harry, and R. J. Cieplik, to Vari-Typer Corp. Business machines. 3,051,480, 8–28–62, Cl. 271—87.

Carlin, Joseph, to American Cyanamid Co. Compacting water-soluble polymers of acrylamides. 3,053,819, 9–11–62, Cl. 260—80.5.

Carlin, Kenneth G., and H. W. Griffin. Access panel for tile ceilings. 3,021,929, 2–20–62, Cl. 189—85.

Carlin, William W., to Pittsburgh Plate Glass Co. Electrolytic cell diaphragm. 3,057,794, 10–9–62, Cl. 204—252.
Carling, Arthur R.: *See*—
Lobel, Martin A. 3,041,734.
Carling Electric, Inc.: *See*—
Grotz, Anthony N. 3,022,394.
Hagberg, Hugo E. 3,016,439.
Sorenson, Wesley T. 3,031,547.
Carling, Richard. Oxygen dispensing apparatus. 3,048,190, 8–7–62, Cl. 137—624.11.
Carlisle, Charles C. Instrument for locating subsurface domes. 3,027,766, 4–3–62, Cl. 73—382.
Carlisle Chemical Works, Inc.: *See*—
Hechenbleikner, Ingenuin, and Molt. 3,059,012.
Mack, Gerry P., and Parker. 3,019,247.
Mack, Gerry P., and Parker. 3,027,350.
Carlisle, Denis R., to Rolls-Royce Ltd. Fuel injectors. 3,039,701, 6–19–62, Cl. 239—419.
Carlisle, Herbert, to Chemstrand Ltd. Apparatus for use in the finishing of textile fabrics. 3,031,732, 5–1–62, Cl. 28—57.
Carlisle, Kenneth M.: *See*—
Miller, George E., and Carlisle. 3,049,045.
Carlisle, Willis C.: *See*—
McCarvell, John H., and Carlisle. 3,041,880.
Carliss, Oswald S., and E. A. Horton, to The Yale and Towne Mfg. Co. Overload detecting system. 3,032,221, 5–1–62, Cl. 214—673.
Carlotti, Pierre F., to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Combustion devices. 3,024,608, 3–13–62, Cl. 60—39.72.
Carlow, Jack. Chamfering apparatus for slab doors. 3,041,-788, 7–3–62, Cl. 51—97.
Carls, William. Combinaion valve and housing. 3,024,801, 3–13–62, Cl. 137—271.
Carls, William. Solenoid valve housing and mount. 3,056,-421, 10–2–62, Cl. 137—315.
Carlsen, Carl E. Hand needle threaders. 3,022,927, 2–27–62, Cl. 223—99.
Carlsen, Helge, to H. Andreasen. Regulating transformer with substantially uniformly distributed windings on its core and with at least two movable contact members. 3,041,563, 6–26–62, Cl. 336—149.
Carlsen, Helmuth W., to AB Interconsult. Transport assemblies for liquid or pulverulent materials. 3,058,753, 10–16–62, Cl. 280—5.
Carlsen, William R., to Michigan Tool Co. Size control apparatus. 3,056,241, 10–2–62, Cl. 51—165.
Carlson, Allan E. and J. M. Jost, to Clevite Corp. Photoconductive element. 3,051,839, 8–28–62, Cl. 250—211.
Carlson, Arne B.: *See*—
Lohnas, John D., and Carlson. 3,060,044.
Carlson, Arne B., to West Virginia Pulp and Paper Co. Coating composition for paper. 3,017,373, 1–16–62, Cl. 260—6.
Carlson, Arthur H., to Holland Co. Oil seal and dust guard unit for railroad car journal boxes. 3,061,316, 10–30–62, Cl. 277—10.
Carlson, Arthur W., to Velsicol Chemical Corp. Alicyclic ethers. 3,025,328, 3–13–62, Cl. 260—611.
Carlson, Bernard E.: *See*—
Fields, Theodore, and Carlson. 3,027,891.
Hallamore, Kim, and Carlson. 3,021,840.
Carlson, Bertil V.: *See*—
Buntenbach, Rudolph W., Carlson, and Williamson. 3,062,574.
Carlson, Carl P. Snow mover and utility cart. 3,017,710, 1–23–62, Cl. 37—123.
Carlson, Carl W.: *See*—
Loevenstein, Hirsch, Carlson, and Gunderson. 3,019,895.
Carlson, Charles W. Knockdown artificial tree. 3,031,785, 5–1–62, Cl. 41—15.
Carlson, Charles W., to Du Kane Corp. Projection apparatus. 3,062,063, 11–6–62, Cl. 74—125.5.
Carlson, Chester F., to Xerox Corp. Electrostatic developer composition and method therefor. Re. 25,136, 3–13–62, Cl. 252—62.1.
Carlson, Chester F., and H. Bogdonoff, to Xerox Corp. Electrostatic image reproduction. 3,015,304, 1–2–62, Cl. 118—637.
Carlson, Clarence F. Mechanical vibrator. 3,026,733, 3–27–62, Cl. 74—87.
Carlson, Clinton C. Round for testing shotgun condition. 3,016,832, 1–16–62, Cl. 102—41.
Carlson Co., Inc., The: *See*—
Sinoli, Richard M. 3,042,415.
Carlson, Elmer A., to Minneapolis-Honeywell Regulator Co. Control apparatus. 3,015,447, 1–2–62, Cl. 236—68.
Carlson, Elmer A., to Minneapolis-Honeywell Regulator Co. Control apparatus. 3,046,380, 7–24–62, Cl. 219—20.
Carlson, Elmer T.: *See*—
Kuhar, William A., and Carlson. 3,052,768.
Carlson, Ernest R.: *See*—
Hubbell, Harvey, and Carlson. 3,023,395.
Carlson, Ernest R., to Harvey Hubbell, Inc. Leaf type snap action switch. 3,061,694, 10–30–62, Cl. 200—67.
Carlson, Ernest R., to Harvey Hubbell Inc. Means for captivating a screw in an internally threaded supporting member. 3,066,271, 11–27–62, Cl. 339—14.
Carlson, Everett C., and J. W. Adams, to Ingersoll-Rand Co. Drill mounting. 3,057,416, 10–9–62, Cl. 175—125.
Carlson, Francis B., to United States of America, Air Force. Releasable escape door device. 3,032,834, 5–8–62, Cl. 20—16.
Carlson, Frank A., Jr., D. K. Hatch, and R. P. Whittier, to Monsanto Chemical Co. Laminated structures. 3,070,475, 12–25–62, Cl. 154—45.9.
Carlson, George: *See*—
Russell, Joseph A., and Carlson. 3,060,054.
Carlson, George E., to Minnesota Rubber Co. Rotary vane type positive displacement pump. 3,053,190, 9–11–62, Cl. 103—117.
Carlson, George J., W. Dong, T. L. Higgins, and C. H. Wilcoxen, Jr., to Shell Oil Co. Polymerization process. 3,066,127, 11–27–62, Cl. 260—94.3.
Carlson, Gustave A. Reclining chairs. 3,049,375, 8–14–62, Cl. 297—303.
Carlson, Harold A.: *See*—
Ott, William F., Krein, and Carlson. 3,043,572.
Carlson, Harold A., to ACF Industries, Inc. Compound valve for controlling fuel bowl inlet of a carburetor. 3,052,453, 9–4–62, Cl. 261—72.
Carlson Harold A., and A. N. Szwargulski, to ACF Industries, Inc. Carburetor float valve structure. 3,059,898, 10–23–62, Cl. 251—333.
Carlson, Ivyl. Corn kicker. 3,029,926, 4–17–62, Cl. 198—128.
Carlson, John C. Adjustable supporting device. 3,033,509, 5–8–62, Cl. 248—356.
Carlson, John W., to Speed-O-Print Business Machines. Dispensers. 3,023,931, 3–6–62, Cl. 221—24.
Carlson, John W., to Speed-O-Print Business Machines. Copying machine. 3,031,942, 5–1–62, Cl. 95—77.5.
Carlson, Karl G. E., and R. E. Rydell, to Hoganas Plastprodukter, Aktiebolaget. Method and apparatus for the production of fiber reinforced resin tubes. 3,038,832, 6–12–62, Cl. 156—190.
Carlson, Leonard A.: *See*—
Sullivan, Wilbur M., and Carlson. 3,047,523.
Carlson, Lewis J., to Rayonier Inc. Process for the manufacture of levulinic acid. 3,065,263, 11–20–62, Cl. 260—528.
Carlson, Martin. Hydraulic door operator system and control means therefor. 3,043,277, 7–10–62, Cl. 121—44.
Carlson, Martin. Door closer mechanism. 3,064,964, 11–20–62, Cl. 268—65.
Carlson, Morris W., to The Bendix Corp. Level gages. 3,068,-697, 12–18–62, Cl. 73—293.
Carlson, Opel A.: *See*—
Lowell, John O., and Carlson. 3,063,371.
Carlson, Phillip G., Jr., to Curtiss-Wright Corp. Mach number control system. 3,038,301, 6–12–62, Cl. 60—35.6.
Carlson, Raymond L., to Westinghouse Electric Corp. Fans having radial flow rotors in axial flow casings. 3,064,879, 11–20–62, Cl. 230—127.
Carlson, Raymond L., to Westinghouse Electric Corp. Fans having radial flow rotors in axial flow casings. 3,069,071, 12–18–62, Cl. 230—117.
Carlson, Reuben C., to Admiral Corp. Control system. 3,028,-582, 4–3–62, Cl. 340—171.
Carlson, Reuben C., to Admiral Corp. Power transmission mechanisms. 3,040,599, 6–26–62, Cl. 74—665.
Carlson, Reuben C., to Admiral Corp. Ultrasonic signal transmitter. 3,056,957, 10–2–62, Cl. 340—384.
Carlson, Reuben C., R. B. Schrecongost, and W. G. Henke, to Admiral Corp. Electro-mechanical remote control system. 3,027,497, 3–27–62, Cl. 317—147.
Carlson, Reuben T.: *See*—
Millard, Ralph S., and Carlson. 3,066,770.
Carlson, Richard A., to General Motors Corp. Alternator-rectifier control circuit. 3,037,124, 5–29–62, Cl. 290—36.
Carlson, Robert J., to U.S. Electrical Motors, Inc. System for controlling the starting torque of induction motor drives. 3,045,153, 7–17–62, Cl. 318—11.
Carlson, Robert J., to The Emerson Electric Mfg. Co. System for controlling the speed of induction motors. 3,065,396, 11–20–62, Cl. 318—229.
Carlson, Robert K., and W. C. Schwemer, to Borg-Warner Corp. Impregnation method and carbonaceous articles impregnated with salts of organo phosphoric acid. 3,029,167, 4–10–62, Cl. 117—228.
Carlson, Roland P.: *See*—
Hart, Benjamin F., and Carlson. 3,062,267.
Carlson, Roland W.: *See*—
Stickney, Joseph B., Lemmermann, Herring, and Carlson. 3,070,695.
Carlson, Roland W. Image amplifier system. 3,026,412, 3–20–62, Cl. 250—71.5.
Carlson, Roland W., to The Harshal Chemical Co. Standardized luminophore. 3,030,509, 4–17–62, Cl. 250—71.5.
Carlson, Roland W., to Picker X-Ray Corp., Waite Mfg. Div., Inc. Scintillation camera. 3,048,698, 8–7–62, Cl. 250—71.5.
Carlson, Roland W., to The Harshaw Chemical Co. Scintillation meter components and photomultiplier tubes therefor. 3,053,982, 9–11–62, Cl. 250—71.5.
Carlson, Roland W., to The Harshaw Chemical Co. Scintillometer component. 3,068,359, 12–11–62, Cl. 250—71.5.
Carlson, Ronald F., R. H. Hockenberger, and J. A. McDougal, to General Motors Corp. Automatic control for vehicle seat adjusters. 3,034,759, 5–15–62, Cl. 248—393.
Carlson, Sture H.: *See*—
Groth, Otto I., Carlson, and Carlsson. 3,017,218.

Carlson, Theodore E., and M. E. Bowen, to Handling Equipment Mfg. Corp. Gas water heater for trailers and houses. 3,028,843, 4–10–62, Cl. 122—149.

Carlson, Vern W. Material applying attachment for power mowers. 3,017,121, 1–16–62, Cl. 239—129.

Carlson, Wilbur L., and A. T. Gregg, to General Motors Corp. Crank assembly and method of attaching cylindrical member to shaft. 3,039,798, 6–19–62, Cl. 287—20.3.

Carlson, William L., Jr., to Minneapolis-Honeywell Regulator Co. Pressure control device. 3,029,323, 4–10–62, Cl. 200—81.6.

Carlson, William L., Jr., to Minneapolis-Honeywell Regulator Co . Conductive fluid power transformer. 3,034,002, 5–8–62, Cl. 310—11.

Carlson, William L., Jr., to Minneapolis-Honeywell Regulator Co. Cylindrical fluid amplifier. 3,039,490, 6–19–62, Cl. 137—610.

Carlson, William L., Jr., to Minneapolis-Honeywell Regulator Co. Electromagnetic device. 3,047,779, 7–31–62, Cl. 317—156.

Carlson, William L., Jr., and F. M. Exner, to Minneapolis-Honeywell Regulator Co. Electromagnetic conductive fluid pump. 3,045,599, 7–24–62, Cl. 103—1.

Carlson, William L., Jr., and R. H. Cole, to Minneapolis-Honeywell Regulator Co. Conductive fluid pump. 3,046,893, 7–31–62, Cl. 103—1.

Carlsson, Hans T. H., to Haldex Aktiebolag. Electric generators of the flywheel type. 3,029,378, 4–10–62, Cl. 322—90.

Carlsson, Karl A. I.: *See*—
Groth, Otto L., Carlson, and Carlsson. 3,017,218.

Carlsson, Stig. Vented enclosure type loudspeaker system providing improved low frequency response. 3,037,081, 5–29–62, Cl. 179—1.

Carlstedt, Ragnar L., to Peter J. Salmon Co., Inc. Cutter for drilling machine. 3,033,062, 5–8–62, Cl. 77—69.

Carlstein, Joseph, to United Aircraft Corp. Tachometer generator. 3,018,395, 1–23–62, Cl. 310—40.

Carlstein, Joseph, to United Aircraft Corp. Wobble plate potentiometer. 3,067,396, 12–4–62, Cl. 338—154.

Carlston, Hamilton S. Unidirectional control mechanism for a rotary drive linkage. 3,017,173, 1–16–62, Cl. 268—119.

Carlström, Börge L., to Hoeganaes Development Co. Ltd. Method for producing phenol aldehyde resins. 3,067,172, 12–4–62, Cl. 260—60.

Carlström, Börge L., and K. A. Rumberg, to Hoeganaes Development Co., Ltd. Method for manufacturing resin-bonded products made from inorganic fibers. 3,052,583, 9–4–62, Cl. 156—38.

Carlton, John P. Edger attachment. 3,057,411, 10–9–62, Cl. 172—15.

Carlton Mfg. Co.: *See*—
Rossi, Ralph. 3,036,785.

Carlton, Raymond R., to Omark Industries, Inc. Saw chain sharpener and method. 3,040,602, 6–26–62, Cl. 76—38.

Carlton, Raymond R., to Omark Industries, Inc. Saw chain sprocket. 3,045,502, 7–24–62, Cl. 74—243.

Carlton, William H. Prefabricated door and window construction. 3,040,390, 6–26–62, Cl. 20—11.

Carlton, William W., and H. M. Burnham, to General Electric Co. Adjustable converging-diverging nozzle. 3,044,258, 7–17–62, Cl. 60—35.6.

Carlucci, Michael P., and R. W. Persico, to United States of America, Army. Fold-upstyle service cap. 3,015,108, 1–2–62, Cl. 2—195.

Carlyle, Robert L., to Continental Oil Co. Method of dispersing barium hydroxide in a non-volatile carrier. 3,021,280, 2–13–62, Cl. 252—33.

Carlyle, Robert L., to The Dow Chemical Co. Introduction of a metal into a combustion zone. 3,047,057, 7–31–62, Cl. 158—117.5.

Carlyle, Walter L. Ski rack. 3,018,897, 1–30–62, Cl. 211—60.

Carmack, Marvin, and L. M. Weinstock, to Indiana University Foundation. 1,2,5-thiadiazole-3-carboxylic acid and related derivative and processes. 3,060,187, 10–23–62, Cl. 260—302.

Carmack, Marvin, and L. M. Weinstock. Novel 3-substituted 1,2,5-thiadiazoles. 3,066,147, 11–27–62, Cl. 260—306.8.

Carman, Alexander J., and H. W. Connor, to Celanese Corp. of America. Manufacture of filaments of varying denier. 3,025,563, 3–20–62, Cl. 18—8.

Carman, Ernest H. D.: *See*—
Read, Frank O., Carman, Cross, and Moir. 3,062,738.

Carman, Everett F., to Rohm & Haas Co. Resinous coating compositions and metohds of coating materials with them. 3,037,955, 6–5–62, Cl. 260—30.6.

Carman, John R.: *See*—
Blevins, Alonzo, Jr., and Carman. 3,059,273.

Carman, Justice N., to Carman Laboratories, Inc. Fluid treatment apparatus. 3,058,478, 10–16–62, Cl. 134—80.

Carman Laboratories, Inc.: *See*—
Carman, Justice N. 3,058,478.

Carmen, Hyman, to E. & R. Inc. Garment with flexible sleeve joints. 3,049,719, 8–21–62. Cl. 2—93.

Carmichael, Mead S., Jr., to The Scott Viner Co. Dump cart. 3,041,112, 6–26–62, Cl. 298—11.

Carmichael, Mead S., Jr., and R. A. Stark, to The Scott Viner Co. Leveling device for mobile viner. 3,033,584, 5–8–62, Cl. 280—6.1.

Carmichael, Robert, and J. L. S. Daley, to Union Carbide Corp. Alkaline cell closure. 3,042,734, 7–3–62, Cl. 136—133.

Carmichael, Robert, F. G. Spanur, G. H. Klun, to Union Carbide Corp. Container closure. 3,069,489, 12–18–62, Cl. 136—133.

Carminati, Carlo. Carding machine characterized by self-cleaning rotary flats. 3,032,831, 5–8–62, Cl. 19—99.

Carmody, Don R., and A. Zletz, to Standard Oil Co. Organic trihiophosphites as rocket propellants. 3,066,478, 12–4–62, Cl. 60—35.4.

Carmody, Michael A. Tractor-trailer steering combination. 3,048,423, 8–7–62, Cl. 280—426.

Carmon, Richard L., and F. R. Rogers, to The Bendix Corp. Fluid centrifuge. 3,034,570, 5–15–62, Cl. 158—36.4.

Carnagua, Harold E., and C. W. Kruckeberg, to Tokheim Corp. Single lever dispenser control apparatus. 3,045,868, 7–24–62, Cl. 222—33.

Carnahan, Leonard L., M. E. Fry, G. C. Pearce, and J. L. Evans, to General Motors Corp. Oven door mounting means. 3,049,114, 8–14–62, Cl. 126—191.

Carnahan, Leonard L., M. E. Fry, G. C. Pearce, and J. L. Evans, to General Motors Corp. Oven door mounting means. 3,049,115, 8–14–62, Cl. 126—191.

Carnahan, Robert E.: *See*—
Bloom, Barry M., and Carnahan. 3,040,061.

Carnall, Edward, Jr., R. S. Ladd, D. S. Cary, and W. F. Parsons, to Eastman Kodak Co. Infrared transmitting and absorbing glasses. 3,033,693, 5–8–62, Cl. 106—47.

Carnaud, J. J., et Forges de Basse-Indre, Etablissements: *See*—
Petin, Jean. 3,032,171.

Carne, Michael: *See*—
Armond, John W., and Carne. 3,063,217.

Carnegie Institution of Washington: *See*—
Bush, Vannevar. 3,034,945.

Carnelly, Raymond H.: *See*—
Ambland, Marcel E., and Carnelly. 3,066,944.

Carnes Corp.: *See*—
Sylvester, Gordon C., Freese, and Krogstad. 3,065,685.

Carnevali, Gilberto: *See*—
Dall'Oglia, Giorgio, De Marsico, and Carnevali. 3,068,-

Carney, Richard R.: *See*—
Starnes, Jesse B., Loveday, and Carney. 3,037,360.

Carney, Robert J., and F. J. Hahn, to Monsanto Chemical Co. Binary oil-in-water surface coating emulsions. 3,069,368, 12–18–62, Cl. 260—21.

Carney, Robert J., and F. J. Hahn, to Monsanto Chemical Co. Oil-in-water surface coating emulsions. 3,069,371, 12–18–62, Cl. 260—23.

Carney, Rowe E., Jr.: *See*—
Smith, Tom F. 3,055,265.
Smith, Tom F. 3,055,334.

Carney, Rufus T., and J. E. Corr, to American Viscose Corp. Compression resistant rayon staples. 3,057,037, 10–9–62, Cl. 28—78.

Carnicelli, William J. Adjustable step for ladders. 3,067,-

Carniti, Arturo. Spindle holder and method of making same. 3,048,001, 8–7–62, Cl. 57—112.

Carnrick, G. W., Co.: *See*—
Deutsch, Marshall E. 3,066,075.

Caro, Michael R. Powered paint applicator. 3,066,337, 12–4–62, Cl. 15—322.

Caro, Paul M., C. O. Miller, and R. A. Xavier, to Olin Mathieson Chemical Corp. Production of boron trichloride. 3,051,553, 8–28–62, Cl. 23—205.

Carofiglio, Louis E. Nasal inhaler. 3,027,897, 4–3–62, Cl. 128—206.

Carolan, Philip J. Upholstery press. 3,029,550, 4–17–62, Cl. 45—138.

Carolan, Raymond J., to Puritan Compressed Gas Corp. Quick donning harness for oxygen masks. 3,040,741, 6–26–62, Cl. 128—146.

Carolina Knitting Machine Corp.: *See*—
Haddad, Salomao J. 3,054,278.

Carolina-Tuff-Lite Corp.: *See*—
Johnson, Allen S., Jr. 3,030,089.
Johnson, Allen S., Jr. 3,030,090.

Caroline Co.: *See*—
Maurath, Raymond L. 3,025,006.

Caron, Cornelis J.: *See*—
Kolthof, Jacob J., and Caron. 3,048,379.

Caron, Edgar L.: *See*—
Hoeksema, Herman, Caron, and Hinman. 3,026,331.

Caron, Eugene J., and G. W. Carter, to Radio Condenser Co. Radio tube socket. 3,063,033, 11–6–62, Cl. 339—182.

Caron, Michel, G. Chaudron, and L. Moreau, to Commissariat a l'Energie Atomique. Installation for the vaporisation, under vacuum, of the volatile constituent of an alloy. 3,016,237, 1–9–62, Cl. 266—15.

Carondelet Foundry Co.: *See*—
Culling, John H. 3,063,096.

Caroselli, Remus F., A. Marzocchi, and S. M. Billett, to Owens-Corning Fiberglas Corp. Extensible fibrous glass textile strand and method of producing same. 3,029,589, 4–17–62, Cl. 57—153.

Caroselli, Remus F., A. Marzocchi, and S. M. Billett, to Owens-Corning Fiberglas Corp. Extensible fibrous glass textile strand structure and method of making same. 3,029,590, 4–17–62, Cl. 57—153.

Caroselli, Remus F., and R. K. Gagnon, to Owens-Corning Fiberglas Corp. Method of producing dyed glass fiber yarn. 3,068,546, 12–18–62, Cl. 28—75.
Carotti, Arrigo A.: *See*—
Winternitz, Paul F., and Carotti. 3,022,350.
Carozzo, Giorgio, Injection-moulding composite articles. 3,051,994, 9–4–62, Cl. 18—55.
Carpco Research & Engineering, Inc.: *See*—
Carpenter, James H. 3,058,589.
Carpenter, Albert S., and R. N. Timms, to Courtaulds Ltd. Process for preparing fibres from copolymers of acrylonitrile and vinylidene chloride. 3,066,008, 11–27–62, Cl. 18—54.
Carpenter, Arthur J.: *See*—
Himka, John, Probst, Gilson, and Carpenter. 3,024,062.
Carpenter, Arthur J., to General Motors Corp. Convertible top. 3,047,332, 7–31–62, Cl. 296—116.
Carpenter, David J., to Ex-Cell-O-Corp. Electromagnetic transducer. 3,026,379, 3–20–62, Cl. 179—100.2.
Carpenter, E. R., Co., Inc.: *See*—
Pauley, Stanley F., and Cecil. 3,029,565.
Carpenter, Frederick D. Sea-well conversion of salt water. 3,060,119, 10–23–62, Cl. 210—22.
Carpenter, Henry V.: *See*—
Carpenter, William R. 3,059,480.
Carpenter, Herbert L., Sr., to The Grief Bros. Cooperage Corp. Fiber container and locking rim therefor. 3,039,666, 6–19–62, Cl. 229—5.7.
Carpenter, Herbert L., Sr., to The Greif Bros. Cooperage Corp. Fiber drum and its method of formation. 3,042,288, 7–3–62, Cl. 229—67.
Carpenter, James D. Ground meat mold. 3,045,277, 7–24–62, Cl. 17—32.
Carpenter, James H., to Carpco Research & Engineering, Inc. Electrostatic separator. 3,058,589, 10–16–62, Cl. 209—129.
Carpenter, Joel C.: *See*—
Urmetz, Walter W., and Carpenter. 3,058,182.
Carpenter, Joel C., to Oglebay Norton Co. Integrated bottom ring and attaching clip unit. 3,018,527, 1–30–62, Cl. 22—17.
Carpenter, Joel C., to Oglebay Norton Co. Hot top and wiper strip construction. 3,046,625, 7–31–62, Cl. 22—147.
Carpenter, John H.: *See*—
Kane, James S., Carpenter, and Krikorian. 3,017,286.
Carpenter, Joseph E., and R. Kolodny, to American Cyanamid Co. Dialkylpolyaminopolyalkalene amides. 3,035,070, 5–15–62, Cl. 260—404.5.
Carpenter, L. E., & Co.: *See*—
Singleton, Franklin J., and Sylvester. 3,024,154.
Carpenter, Lyle P.: *See*—
Harmon, Paul V., and Carpenter. 3,031,559.
Carpenter, Otis R.: *See*—
Armstrong, Frank W., Jr., and Carpenter. 3,035,157.
Carpenter, Otis R., and F. W. Armstrong, to The Babcock & Wilcox Co. Tube panel wall welding using a pair of opposite polarity electrodes. 3,059,099, 10–16–62, Cl. 219—137.
Carpenter and Paterson, Inc.: *See*—
Kohler, John. 3,048,359.
Carpenter, Robert G., R. G. King, and T. W. Greaves, to W. R. Grace & Co. Apparatus for producing packaged product. 3,034,271, 5–15–62, Cl. 53—184.
Carpenter, Robert H., to The Weatherhead Co. Hose cut-off machine. 3,066,564, 12–4–62, Cl. 83—175.
Carpenter, Virgil R., to The Unipress Co. Multiple buck one-lay bosom press. 3,070,268, 12–25–62, Cl. 223—57.
Carpenter, Virgil R., and W. M. Turner, to The Unipress Co., Inc. Garment finishing machine. 3,021,606, 2–20–62, Cl. 34—103.
Carpenter, Virgil R., and W. H. Turner, to The Unipress Co., Inc. Heat seal machine. 3,035,510, 5–22–62, Cl. 100—93.
Carpenter, Walter H. Apparatus for freezing comestibles. 3,020,732, 2–13–62, Cl. 62—345.
Carpenter, William R., to H. W. Carpenter, d.b.a. Muskegon Outboard Specialties Co. Tachometer. 3,509,480, 10–23–62, Cl. 73—506.
Carper, Harold R., 35⅓% to C. F. Spickelmier, 32½% to E. S. Greer, and 32½% to B. S. Spickelmier. Interlocking concrete construction. 3,063,202, 11–13–62, Cl. 50—370.
Carpigiani, Poerio. Continuous ice cream freezer and dispenser. 3,018,641, 1–30–62, Cl. 62—342.
Carpigiani, Poerio. Anti-dripping piston cock, particularly adapted for dense liquids of fluid pasty substances. 3,052,381, 9–4–62, Cl. 222—132.
Carpino, Simon F.: *See*—
Yasko, John. 3,059,631.
Carr, Albert A., Jr., C. H. Tilford, and W. L. Kuhn, to Richardson-Merrell, Inc. Substituted 5,6-dihydro-2(1H)-pyrazinones. 3,056,784, 10–2–62, Cl. 260—250.
Carr, Charles A., Jr., and L. E. Kelley, to Rohm & Haas Co. Quick-tack polymeric adhesives for fibrous laminae. 3,050,425, 8–21–62, Cl. 154—46.
Carr, Donald E., to Phillips Petroleum Co. In situ retorting of oil shale. 3,017,168, 1–16–62, Cl. 262—3.
Carr, Donald E., to Phillips Petroleum Co. Smoke suppression and thrust augmentation by a mixture of tertiary butyl alcohol and water. 3,048,967, 8–14–62, Cl. 60—35.4.
Carr, Edward W., and R. P. Setka, to Crane Co. Actuating means for pressure responsive vessels. 3,027,912, 4–3–62, Cl. 137—478.
Carr, Hugh B.: *See*—
Kinney, Selwyne P., and Carr. 3,058,492.
Carr, James P.: *See*—
Griffith, Clifford J., and Carr. 3,030,978.
Carr, James W., Jr.: *See*—
Cull, Neville Leverne, Lambert, Carr, and Berkeley. 3,050,569.
Carr Lane Mfg. Co.: *See*—
Miller, Orville C. 3,039,570.
Carr, Lloyd G. K.: *See*—
Dee Kevin D., and Carr. 3,064,229.
Carr, Louis E., and D. C. Jones, to Koehring Co. Dual fork lift attachment. 3,045,850, 7–24–62, Cl. 214—620.
Carr, Norman L.: *See*—
Geerts, Marcellus J., and Carr. 3,024,294.
Carr, Norman L., to The Pure Oil C. Process for isomerizing normal hexane. 3,023,256, 2–27–62, Cl. 260—683.68.
Carr, Norman L., to The Pure Oil Co. Method of isomerizing and demethanating C5–Cs n-paraffins. 3,047,491, 7–31–62, Cl. 208—136.
Carr, Norman L., to The Pure Oil Co. Process for the catalytic hydroisomerization of crude normal-pentane. 3,047,645, 7–31–62, Cl. 260—683.65.
Carr, Norman L., to The Pure Oil Co. Process for the catalytic hydroisomerization of crude normal-pentane. 3,047,646, 7–31–62, Cl. 260—683.68.
Carr, Robert D. Apparatus for forming objects. 3,047,928, 8–7–62, Cl. 25—41.
Carr, Robert D. Means for positioning cable under tension. 3,054,596, 9–18–62, Cl. 254—51.
Carr, Sherman C., to The West Bend Co. Alternating current generator and regulating system. 3,034,005, 5–8–62, Cl. 310—153.
Carrard, Florentin, ½ to A. Siegenthaler. Electromagnetic brake and control therefor. 3,026,978, 3–27–62, Cl. 192—3.
Carrasco, Hipólito: *See*—
Saavedra, Ramón F., and Carrasco. 3,066,413.
Carraway, Nelson: *See*—
Arabian, Karekin G., and Carraway. 3,041,268.
Carreker, Roland P., Jr., and R. M. Parke, to General Electric Co. Method and apparatus for accreting molten copper on a moving member. 3,060,053, 10–23–62, Cl. 117—51.
Carrick, Arvid: *See*—
Krane, Casimir, and Carrick. 3,034,174.
Krane, Casimir, and Carrick. 3,058,163.
Carrico, Glen S.: *See*—
Griffin, Ben B., and Carrico. 3,047,287.
Carrie, William D., to Crane Co. Part washing apparatus. 3,022,790, 2–27–62, Cl. 134—46.
Carrier Corp.: *See*—
Alt, Carl G. 3,021,686.
Alt, Carl G. 3,045,439.
Arzberger, William A. 3,065,608.
Ashley, Carlyle M. 3,053,166.
Ashley, Carlyle M., and Roberts. 3,041,047.
Baker, Virgil H. 3,047,045.
Bosworth, Cyrus M. 3,049,888.
Bourne, Joseph R. 3,038,316.
Bowman, Urban, and Bibbins. 3,052,105.
Carfagno, Salvatore G. 3,049,889.
Caswell, Howard E., and Endress. 3,022,638.
Church, Richard A. 3,032,323.
Day, William M. 3,068,776.
Deady, Frederick W., Jr., and White. 3,053,315.
Diehl, John W. 3,032,601.
Divers, Raymond T., and Lynch. 3,054,844.
Durham, Raymond F., and Koepeke. 3,045,442.
English, Richard A., and Merrick. 3,038,320.
Fletcher, Harry W. 3,064,335.
Fletcher, Harry W., and Chase. 3,059,097.
Foster, Theodore G. 3,045,438.
Garland, Robert J. 3,055,082.
Gerteis, Karl M. 3,020,464.
Gerteis, Karl M. 3,064,445.
Gerteis, Karl M., and McCready. 3,024,619.
Harter, Earl F. 3,043,115.
Hopkinson, Harold H., Irwin, and Kessler. 3,020,820.
Hopkinson, Harold H., Irwin, and Kessler. 3,020,822.
Hungate, Ernest C. 3,020,974.
Johnson, Stuart E. 3,053,055.
Leonard, Louis H., Jr. 3,019,613.
Leonard, Louis H., Jr. 3,052,962.
Leonard, Louis H., Jr. 3,053,056.
Leonard, Louis H., Jr. 3,054,272.
Leonard, Louis H., Jr. 3,064,450.
Lihmatainen, Teuvo A., and Jewell. 3,060,336.
MacLeod, David E. 3,020,726.
MacLeod, David E. 3,045,445.
MacLeod, David E. 3,048,095.
MacLeod, David E., and Alt. 3,019,718.
McGrath, William L. 3,029,724.
McGrath, William L. 3,045,578.
McGrath, William L. 3,048,834.
McGrath, William L. 3,053,057.
McGrath, William L. 3,054,273.
McGrath, William L. 3,059,448.
McGrath, William L. 3,068,661.
McGrath, William L., and Alt. 3,045,440.
McGrath, William L., and MacLeod. 3,045,443.
McGrath, William L., and Randolph. 3,054,271.
Merrick, Richard H. 3,037,361.
Merrick, Richard H. 3,038,321.
Papapanu, James A. 3,019,616.
Rich, Donald G. 3,050,959.

Carrier Corp. : *See*—Continued
Riester, Robert A. 3,035,841.
Sheckler, Addison C. 3,035,109.
Snow, Walter A., and Hornbeck. 3,059,901.
Stenerson, Randolph N. 3,041,851.
Todd, Richard F. 3,045,444.
Walts, Kenneth C. 3,064,707.

Carrier, E. Wendell : *See*—
Matuszak, Alfred H., Maisel, and Carrier. 3,048,623.

Carrier, Robert M., Jr., to Chain Belt Co. Energy transmitting means for conveyors and the like. 3,019,889, 2–6–62, Cl. 198—220.

Carrier, Robert M., Jr., and J. M. Morris, to Chain Belt Co. Tuned absorber for vibratory drive. 3,024,663, 3–13–62, Cl. 74—61.

Carrier Stephens Co. : *See*—
Martin, John A. 3,061,135.

Carrigan, Tracy, to FMC Corp. Centering device for wheel balancer. 3,035,447, 5–22–62, Cl. 73—458.

Carrigan, William H., and A. G. Simon, to Kirkhof Mfg. Corp. Portable gun type welder. 3,068,348, 12–11–62, Cl. 219—89.

Carrington, Wilbur A., and A. van Bronkhorst, to Lear Siegler, Inc. Controlled drive mechanism. 3,069,911, 12–25–62, Cl. 74—5.2.

Carriol, Louis A., to Societe d'Etudes, d'Inventions et de Brevets- S.E.I.B. Liquid dispensing mechanism. 3,054,-531, 9–18–62, Cl. 222—33.

Carroll, Aubrey G., ½ to B. Seddon. Gramophone pick-up mechanism. 3,021,142, 2–13–62, Cl. 274—1.

Carroll, Burt H., to Eastman Kodak Co. Sensitization of photographic emulsions to be developed with p-phenylenediamine developing agents. 3,062,645, 11–6–62, Cl. 96—55.

Carroll, Charles, to Duff-Norton Co. Monorail trolley. 3,018,-739, 1–30–62, Cl. 105—154.

Carroll, Charles, to Duff-Norton Co. Material handling dolly. 3,033,398, 5–8–62, Cl. 214—506.

Carroll, Charles, to Duff-Norton Co. Sealed ratchet lever hoist. 3,056,480, 10–2–62, 192—16.

Carroll Container Corp. : *See*—
Butz, James N. 3,028,953.

Carroll, Francis E. : *See*—
Henderson, Lloyd F., and Carroll. 3,029,205.

Carroll, Frank E., Jr. : *See*—
Abbott, Elbert V., and Carroll. 3,034,123.

Carroll, Frank T. Corn cob bin and disintegrator. 3,037,-713, 6–5–62, Cl. 241—101.

Carroll, Fred M., and G. M. Gurley, to International Business Machines Corp. Record card processing machine. 3,015,-204, 2–2–62, Cl. 101—19.

Carroll, Fred M., and G. M. Gurley, to International Business Machines Corp. Article stacking apparatus. 3,033,564, 5–8–62, Cl. 271—88.

Carroll, George R., to Hughes Aircraft Co. Frequency modulation circuit. 3,020,493, 2–6–62, Cl. 332—16.

Carroll, James C. : *See*—
Weisman, Paul, and Carroll. 3,026,468.

Carroll, James C., F. T. Thompson, and C. I. Jones, to Westinghouse Electric Corp. Wide range high output frequency detector. 3,018,381, 1–23–62, Cl. 307—88.

Carroll, James C., and F. T. Thompson, to Westinghouse Electric Corp. Frequency detector. 3,018,382, 1–23–62, Cl. 307—88.

Carroll, James H. : *See*—
Hanmer, Robert S., and Carroll. 3,035,006.

Carroll, James W. : *See*—
Twamley, William E., and Carroll. 3,043,173.

Carroll, John J., and J. A. Grillo. Plant support. 3,061,976, 11–6–62, Cl. 47—47.

Carroll, Kenneth D. Dispensing opener for canned milk. 3,033,415, 5–8–62, Cl. 220—51.

Carroll, Leo P. : *See*—
Gould, Max R., Carroll, and Cervantes. 3,046,139.

Carroll, Paul E., to Texas Instruments Inc. Bidirectional tristable electronic circuit employing international Eccles-Jordan flip-flops. 3,051,907, 8–28–62, Cl. 328—205.

Carroll, Robert B. Alcoholic beverage and process of making the same. 3,050,397, 8–21–62, Cl. 99—30.

Carroll, Robert B. Rapid maturation of alcoholic beverages. 3.050,398, 8–21–62, Cl. 99—47.

Carroll, Robert J. : *See*—
Silverman, Bernard R., Carroll, Simkins, Di Geambeardino, and Jones. 3,068,500.

Carroll, Robert J., and F. T. Perry ; said Carroll assor. to United States of America, Navy. Release and ejection mechanism for automatic dye marker system. 3,049,091, 8–14–62, Cl. 116—124.

Carroll, Robert L. Golf iron. 3,020,048, 2–6–62, Cl. 273—167.

Carroll, Robert L. Bail rod sleeve for strand tension device. 3,049,318, 8–14–62, Cl. 242—157.

Carroll, Vincent J. : *See*—
Strandskov, Frede B., Bockelmann, and Carroll. 3,048,-488.

Carroll, William N., to International Business Machines Corp. Emitter follower pulse amplifier. 3,016,467, 1–9–62, Cl. 307—88.5.

Carroll, William N., to International Business Machines Corp. Data storage circuitry. 3,041,474, 6–26–62, Cl. 307—88.5.

Carroll, William N., and R. A. D'Antonio, to International Business Machines Corp. High speed counter. 3,022,945, 2–27–62, Cl. 235—92.

Carroll, William N., and C. J. Tilton, to International Business Machines Corp. Asynchronous division apparatus. 3,064,896, 11–20–62, Cl. 235—164.

Carron Products Co. : *See*—
Gillon, James H. 3,025,991.

Carrona, John J. : *See*—
Stoeckert, Alvin J., and Carrona. 3,062,981.

Carrozza, Roy J. : *See*—
Scheeler, Frederick H., and Carrozza. 3,033,563.

Carruth, Tommy R., and W. G. Whisenhunt, to W. G. Whisenhunt. Swirling tool. 3,059,261, 10–23–62, Cl. 15—210.5.

Carruthers, Eben H., to Chisholm-Ryder Co., Inc. Machine for separating leaves and vines from pods of pod type vegetables. 3,024,907, 3–13–62, Cl. 209—136.

Carruthers, Robert : *See*—
Thonemann, Peter C., Carruthers, and Bickerton. 3,054,-742.

Carse, Clifford C., and H. E. Kremers, to Airmold Corp. Pressure container for dispensing beverages. 3,070,254, 12–25–62, Cl. 220—9.

Carson, Andrew B., Jr., to General Electric Co. Electromagnetic induction apparatus. 3,024,434, 3–6–62, Cl. 336—96.

Carson, Brian H. : *See*—
Rhoads, George D., Peickii, and Carson. 3,021,161.

Carson, Charles H. : *See*—
Rich, Donald J., and Carson. 3,056,097.

Carson, Charles W., to General Electric Co. Deflection yoke winding, sizing and curing machine. 3,040,783, 6–26–62, Cl. 140—92.2.

Carson, Don B., and F. V. Purse, to Universal Oil Products Co. Rotary valve. 3,040,777, 6–26–62, Cl. 137—625.15.

Carson, Douglas A. Automatic tree injecting device. 3,035,-370, 5–22–62, Cl. 47—57.5.

Carson, Forrest L. : *See*—
Carson, Le Roy, Bloyd, and Carson. 3,051,238.

Carson, Frank : *See*—
Booke, Kenneth E. 3,025,724.

Carson, Frank J., to Libbey-Owens-Ford Glass Co. Apparatus for producing bent sheets. 3,037,324, 6–5–62, Cl. 49—67.

Carson, Frank J., and A. G. Thayer, to Libbey-Owens-Ford Glass Co. Apparatus for handling sheet material. 3,067,-853, 12–11–62, Cl. 198—35.

Carson, Frank J., and A. Stickel, to Libbey-Owens-Ford Glass Co. Method and apparatus for bending glass sheets. 3,069,-878, 12–25–62, Cl. 65—107.

Carson, James S., G. B. Feild, R. E. Kegan, W. H. Markwood, Jr., and F. C. Whitney, to United States of America, Army. Liquid gelling agent for gasoline. 3,018,252, 1–23–62, Cl. 252—316.

Carson, Robert H., to Peerless Machine & Tool Co., Inc. Pressure article with smooth take-up curved zones. 3,033,-434, 5–8–62, Cl. 229—2.5.

Carson, Robert L. Gas detection. 3,051,895, 8–28–62, Cl. 324—71.

Carson, Robert L., and W. F. Conrad. Temperature responsive resistor. 3,017,565, 1–16–62, Cl. 323—74.

Carson, William D. : *See*—
Harris, James E., and Carson. 3,050,577.

Carstens, Fred A., to A. O. Smith Corp. Method of fabricating hemispherical multi-layer heads. 3,046,647, 7–31–62, Cl. 29—421.

Carstens, Robert W. Locating and guide device. 3,049,031, 8–14–62, Cl. 77—62.

Carstensen, Lorenz W. F., to Howard L. H. Gordon, and Richard C. Gordon, Jr. Life globe. 3,060,465, 10–30–62, Cl. 9—14.

Carta, Franklin O. : *See*—
Fanti, Roy A., and Carta. 3,034,762.

Carte, Ben. to Carter B & F, & Co. Ltd. Winding machines for winding spools or bobbins. 3,061,237, 10–30–62, Cl. 242—158.4.

Carte, Cecil H. W., to Martin Walter Ltd. Folding beds. 3,019,455, 2–6–62, Cl. 5—214.

Carter, B & F, & Co. Ltd. : *See*—
Carter, Ben. 3,061,237.

Carter, Charles C., to Silver Corp. Apparatus for thinning growing row crops. 3,032,121, 5–1–62, Cl. 172—58.

Carter, Charles D., Jr., to Phillips Petroleum Co. Tubing positioner for upper zone of dually completed well. 3,047,-069, 7–31–62, Cl. 166—55.1.

Carter, Charlie F. : *See*—
Carter, William W. and C. F. 3,067,625.

Carter, Clare A., L. F. Theiling, Jr., and R. J. Knopf. Alkylene oxide adducts of terminally unsaturated polyols. 3,042,725, 7–3–62, Cl. 260—615.

Carter, Clarence J. : *See*—
Rostoker, William, and Carter. 3,029,171.

Carter, Daniel T., and G. H. Rendel, to United States Steel Corp. Method of coating metal sheets with synthetic plastic. 3,034,926, 5–15–62, Cl. 117—132.

Carter, Eugene H., to Hoerner Boxes, Inc. One piece post box. 3,055,573, 9–25–62, Cl. 229—34.

Carter, Frank : *See*—
Scott, Raymond P. W., and Carter. 3,067,327.

Carter, Franklin E.: *See*—
Kauffmann, William M., and Carter. 3,046,965.
Carter, Frederick D. Dewatering of aqueous pastes or slurries of thermal carbon black. 3,042,504, 7–3–62, Cl. 23—314.
Carter, Frederick D. Treatment of fluid flows. 3,056,500, 10–2–62, Cl. 210—130.
Carter, Frederick H. N., to Sunrod Mfg. Corp. Furnace lining. 3,053,237, 9–11–62, Cl. 122—6.
Carter, George T. Storm sash for awning type windows. 3,026,579, 3–27–62, Cl. 20—42.
Carter, George W.: *See*—
Caron, Eugene J., and Carter. 3,063,033.
Carter, Giles F., and J. R. Harrison, to E. I. du Pont de Nemours and Co. Method of degassing hydrogen from solid titanium. 3,017,299, 1–16–62, Cl. 148—13.1.
Carter, Ivan P. V., to International Business Machines Corp Magnetic driver device. 3,070,707, 12–25–62, Cl. 307—88.
Carter, John L.: *See*—
Reingold, Irving, and Carter. 3 058,070.
Carter, John L., to United States of America, Army. Electronic bilateral ferrite reflection switch. 3,059,192, 10–16–62, Cl. 333—7.
Carter, John L., and I. Reingold, to United States of America, Army. Electrical duplexer employing a traveling wave tube as a directional coupler. 3,027,453, 3–27–62, Cl. 250—13.
Carter, John L., and R. A. Moore, to United States of America, Army. Ferrite power divider. 3,052,856, 9–4–62, Cl. 333—6.
Carter, Joseph C.: *See*—
Rodin, Max B., and Carter. 3,034,978.
Carter Parts Co.: *See*—
Frantz, Nicholas, and Gloviak. 3,045,078.
Frantz, Nicholas, and Gloviak. 3 045,079.
Frantz, Nicholas, and Gloviak. 3,045,080.
Carter, Paul H., and R. L. Morse, to Universal Machine Co., Inc. Feeder for flexible containers. 3,058,617, 10–16–62, Cl. 221—223.
Carter Products, Inc.: *See*—
Berger, Frank M., and Ludwig. 3,059,022.
Berger, Frank M., and Wielich. 3,039,922.
Groupe, Vincent, Pugh, and Levine. 3,039,923.
Carter, Robert C.: *See*—
Rogers, Robert H., and Carter. 3,050,642.
Carter, Sam R., Jr. Processes for extinguishing fires. 3,070,-172, 12–25–62, Cl. 169—1.
Carter, Sidney T., to Geo. J. Meyer Mfg. Co. Article feeding apparatus for processing machine. 3,036,624, 5–29–62, Cl. 156—566.
Carter, Sidney T., to Geo. J. Meyer Mfg. Co. Conveyor system for supplying articles of a plurality of kinds to apparatus for assembling them. 3,036,689, 5–29–62, Cl. 198—19.
Carter, Sidney T., to Geo. J. Meyer Mfg. Co. Apparatus for advancing articles from a supply to a receiver. 3,040,870, 6–26–62, Cl. 198—76.
Carter, Sidney T., to Geo. J. Meyer Mfg. Co. Label adjusting means for label magazines. 3,043,588, 7–10–62, Cl. 271—53.
Carter, Sidney T., to Geo. J. Meyer Mfg. Co. Container filling apparatus. 3,047,032, 7–31–62, Cl. 141—99.
Carter, Sidney T., to Geo. J. Meyer Mfg. Co. Article-orienting means for labeling machines. 3,054,496, 9–18–62, Cl. 198—32.
Carter, Terry L. Case packer. 3,046,712, 7–31–62, Cl. 53—61.
Carter, Thomas J., to United States of America, Commerce. Apparatus for water penetration testing of sole leather. 3,028,755, 4–10–62, Cl. 73—100.
Carter, Thomas N., deceased, by V. A. Carter, executrix, to Champion Paper Inc. Conveying apparatus. 3,052,339, 9–4–62, Cl. 198—37.
Carter, Vera A.: *See*—
Carter, Thomas N. 3,052,339.
Carter, Victor J., to G. A. Jarrett. Proportional measuring and mixing device for fluids. 3,062,512, 11–6–62, Cl. 259—26.
Carter, Warren E.: *See*—
Gray, Robert J., and Carter. 3,061,344.
Carter, Wilbert V.: *See*—
Ledingham, Gordon R., Carter, and Olson. 3,046,585.
Carter, William A.: *See*—
Wood, Joseph D., Smith, and Carter. 3,054,876.
Carter, William A., to I-T-E Circuit Breaker Co. Serpentine corrugated arc product coolers. 3,033,961, 5–8–62, Cl. 200—144.
Carter, William D., to Eastman Kodak Co. Process for producing solid non-porous pellets from polyolefins and pellets produced thereby. 3,046,606, 7–31–62, Cl. 18—47.5.
Carter, William L., and T. Shiflett. Toy sky launching station. 3,041,779, 7–3–62, Cl. 46—74.
Carter, William W. and C. F. Drive assembly. 3,067,625, 12–11–62, Cl. 74—209.
Carter's Ink Co., The: *See*—
Clancy, John J., Rafferty, and Wells. 3,019,201.
Peshin, John V., and Seager. 3,049,457.
Cartier, Inc.: *See*—
Muller, Gerard. 3,015,179.
Cartier, Jean, and F. Le Boulch, to Metallurgie Francaise des Poudres, La. Method of manufacturing parts of thin form by fritting. 3,034,178, 5–15–62, Cl. 18—59.3.
Cartier, Philip P., to International Business Machines Corp. Pulse generating and timing circuit for generating paired pulses, one more narrow than the other. 3,048,785, 8–7–62, Cl. 328—62.
Cartinhour, John W.: *See*—
Frisch, Martin, Cartinhour, Tinbergen, Stern, and Tidd. 3,052,292.
Cartoprint A/S: *See*—
Lemche, Johan H. 3,058,406.
Lemche, Johan H. 3,064,525.
Cartoux, Henr.: *See*—
Hernandez, José, and Cartoux. 3,030,228.
Cartridge Type Seal Liquidation Trust: *See*—
Laser, William F. 3,061,318.
Laser, William F., and Yost. 3,031,199.
Cartwright, Bert W., to Chrysler Corp. Hydrodynamic transmission. 3,035,457, 5–22–62, Cl. 74—730.
Cartwright, Bert W., E. R. Miller, and T. Iavelli, to Chrysler Corp. Hydrodynamic transmission. 3,053,115, 9–11–62, Cl. 74—730.
Cartwright, Horace A. Hot spray bars. 3,043,518, 7–10–62, Cl. 239—124.
Cartwright, Horace A. Governor-controlled dispensing apparatus. 3,044,661, 7–17–62, Cl. 222—25.
Cartwright, John R.: *See*—
Bird, Raymond, and Cartwright. 3,063,042.
Cartwright, Theodore R., and L. A. Werner. Self-motivating automatic syphoning and equalizing tank system. 3,021,855, 2–20–62, Cl. 137—38.
Carty, David G.: *See*—
Beatty, Milton R. 3,048,869.
Carty, Margaret F. Drawing appliance for producing ornamental designs. 3,061,946, 11–6–62, Cl. 35—26.
Carty, Roy F. Sliding valve well pump. 3,026,812, 3–27–62, Cl. 103—155.
Carus Chemical Co.: *See*—
Carus, Milton B. 3,062,734.
Carus, Milton B., to Carus Chemical Co. Electrolytic cell and electrode therefor. 3,062,734, 11–6–62, Cl. 204—270.
Caruso, Paul F. Folded rigid cigarette package with hinged side flap. 3,037,678, 6–5–62, Cl. 229—17.
Carvel Thomas. Assembly and stacking apparatus. 3,019,744, 2–6–62. Cl. 107—1.
Carver, Clema. Collapsible table. 3,047,337, 7–31–62, Cl. 297—157.
Carver, Richard, to Louis Marx & Co., Inc. Toy gun with shell ejection. 3,032,924, 5–8–62, Cl. 46—175.
Carver, Robert W. Plastic laminating press. 3,029,178, 4–10–62, Cl. 156—359.
Carver, Robert W., and C. Greenfield. Manufacture of soluble coffee. 3,035,921, 5–22–62, Cl. 99—71.
Carwin Co., The: *See*—
Sayigh, Adnan A. R. 3,066,158.
Cary, Albert F., to Technitrol, Inc. Indicia transfer system. 3,064,077, 11–13–62, Cl. 178—6.6.
Cary Donald S.: *See*—
Casarett, Edward, Jr., Ladd, Cary, and Parsons. 3,033,693.
Cary, Henry H.: *See*—
White, John U., and Cary. 3,069,967.
Cary, Henry H., to Applied Physics Corp. Spectrophotometer. 3,022,704, 2–27–62, Cl. 88—14.
Cary, Henry H., and R. C. Hawes, to Applied Physics Corp. Spectrophotometer. 3,025,746, 3–20–62, Cl. 88—14.
Cary, Kenneth H., H. T. Nagamatsu, and R. E. Sheer, Jr., to General Electric Co. Pressure measuring gage. 3,031,591, 4–24–62, Cl. 310—8.7.
Cary, Lloyd H., to Southern Extrusions, Inc. Compact latch and lock structure. 3,026,702, 3–27–62, Cl. 70—97.
Casablancas High Draft Co. Ltd.: *See*—
Noguera, Joseph. 3,043 083.
Noguera, Joseph. 3,059,864.
Casale, Jorge O. Baby's diaper. 3,057,353, 10–9–62, Cl. 128—284.
Casaleggi, Charles J.: *See*—
Scavuzzo, William J., and Casaleggi. 3,028,009.
Casaleggi, Charles J., to Purolator Products, Inc. Filter unit with signal device. 3,070,232, 12–25–62, Cl. 210—90.
Casas-Campillo: *See*—
Bosch, Albert, Casas-Campillo, Zderic, and Djerrasi. 3,067,212.
Casassa, Joseph P., to General Motors Corp. Electric fuel pump system. 3,029,801, 4–17–62, Cl. 123—179.
Casby, James U.: *See*—
Eisenman, George, Rudin, and Casby. 3,041,252.
Cascade Mfg. Co.: *See*—
Dittel, Stuart R. 3,029,962.
Farmer, Stanley E., and Derhalli. 3,053,596.
Cascarine, Robert L. L., to S.E.B.M.A. S.A., Societe d'Exploitation des Brevets de Machines Agricoles. 3,027,950, 4–3–62, Cl. 172—5.
Casciani, Ferri, and H. D. Bauman, to P. H. Glatfelter Co. Production of potassium compounds. 3,020,195, 2–6–62, Cl. 162—32.
Casco Products Corp.: *See*—
Cone, Joseph H. 3,016,206.
Horwitt, Laurence G. 3,028,474.
Horwitt, Laurence G. 3,066,292.
Suarez, Julio F. 3 068,858
Case, Charles B. Globe overlays. 3,016,629, 1–16–62, Cl. 35—46.
Case, Everett N.: *See*—
Payne, Richard B., Mrstik, and Case. 3,056,667.

Case Foundation Co.: *See*—
Walton, James P. 3,032,128.
Case, J. I., Co.: *See*—
Ailin, George S., Jr. 3,029,213.
Baker, Malvern S. 3,017,941.
Bulin, Shelley A. 3,023,901.
Bushmeyer, Richard W., and Vaughn. 3,043,378.
Hansen, Charles W., Wiltsey, and Christenson. 3,024,-951.
Long, Elton B. 3,047,171.
Miller, Charles D. 3,036,837.
Morrison, James L., and Wenzel. 3,026,667.
Powers, Lee H. 3,060,873.
Ralston, Harold A. 3,057,414.
Ralston, Harold A., and Wenzel. 3,049,856.
Tulik, John F. 3,042,119.
Urben, Leon J. 3,043,377.
Case, John S. Calculating instrument. 3,065,903, 11–27–62, Cl. 235—61.
Case, Richard P., to International Business Machines Corp. Phased pulse generator. 3,046,416, 7–24–62, Cl. 307—88.5.
Case, Robert O., Jr., to North American Aviation, Inc. Electronic computer. 3,057,555, 10–9–62, Cl. 235—195.
Case, Roy I.: *See*—
Imm, Lewis W., Case, and Brandon. 3,042,297.
Casella, Joseph: *See*—
Webster, Milo E., and Casella. 3,029,981.
Casement, James S.: *See*—
Rothweiler, George A., Harrison, and Casement. 3,056,-704.
Casement, James S., and J. R. Hinkley, to Minnesota Mining and Mfg. Co. Epoxy coating composition and method of coating electrical article therewith. 3,021,234, 2–13–62, Cl. 2–13–62, Cl. 88—72.
Casey, Charles L., and J. B. Ryno, to Reliable Engineering Co. Article vending machine. 3,016,165, 1–9–62, Cl. 221—116.
Casey, Edmund J., P. E. Lake, and G. D. Nagy, to Her Majesty the Queen in right of Canada, as represented by the Minister of National Defence. Method of incorporating an electrochemically active cadmium compound into a porous nickel plaque. 3,068,310, 12–11–62, Cl. 136—24.
Casey, Edward J., to General Electric Co. Antenna ice clearing system. 3,042,918, 7–3–62, Cl. 343—704.
Casey, James H., to Minnesota Mining & Mfg. Co. Liner removal attachment for tape dispenser. 3,025,014, 3–13–62, Cl. 242—67.3.
Casey, James H., to Minnesota Mining & Mfg. Co. Tape wrapping machines. 3,048,953, 8–14–62, Cl. 53—198.
Casey, James H., to Minnesota Mining & Mfg. Co. Stripping attachment for pressure-sensitive tape dispensing rollers. 3,061,161, 10–30–62, Cl. 226—96.
Casey, James P., and E. R. Lehman, to A. E. Staley Mfg. Co. Dry potential adhesive compositions. 3,015,572, 1–2–62, Cl. 106—177.
Casey, John E., and H. C. Hobbs, to Rubbermaid Inc. Combined funnel and measuring device. 3,038,609, 6–12–62, Cl. 210—86.
Casey, Robert J., to Selas Corp. of America. Vacuum furnace. 3,020,032, 2–6–62, Cl. 263—42.
Casey, Thomas J., to Thomas Engineering Co., Inc. Marking machine for marking successive conveyed articles. 3,021,783, 2–20–62, Cl. 101—35.
Cash, A.W., Valve Mfg. Corp.: *See*—
Terry, Charles M. 3,015,963.
Cash, Alice E.: *See*—
Brewster, Lewis A. 3,039,257.
Cash, David R.: *See*—
Cash, James A., Sr., and D. R. Cash. 3,062,160.
Cash, James, Machine Co., Inc.: *See*—
Cash, James A., Sr., and D. R. Cash. 3,062,160.
Cash, James A., Sr., and D. R. Cash, to James Cash Machine Co., Inc. Mattress edge-sewing apparatus with operator's platform. 3,062,160, 11–6–62, Cl. 112—3.
Cash, Maurice: *See*—
Brewster, Lewis A. 3,039,257.
Cashin, Inc.: *See*—
Gillman, Harold K. 3,027,924.
Cashman, Robert W., and A. Wasco, Jr., to Saginaw Machine and Tool Co. Tool holder. 3,050,828, 8–28–62, Cl. 29—96.
Cashman, Robert W., and A. Wasco, Jr., to Saginaw Machine and Tool Co. Tool supporting apparatus. 3,051,029, 8–28–62, Cl. 82—36.
Casida, John E.: *See*—
Esenther, Glenn R., Allen, Casida, and Shenefelt. 3,070,-495.
Casiglia, Francesco. Continuous recording of graphs and instruments therefor. 3,022,130, 2–20–62, Cl. 346—21.
Casini, Carlo R. Carburetion engine with variable-volume combustion chamber. 3,025,840, 3–20–62, Cl. 123—48.
Casius Corp. Ltd.: *See*—
Goransson, Rolf E., and Johansson. 3,042,988.
Helmerson, Knut H. 3,027,558.
Helmerson, Knut H. and B. A. 3,026,652.
Lundgren, Bengt A. R., and Borelius. 3,047,908.
Olsson, Karl G. 3,042,232.
Wijard, Endel. 3,030,664.
Caskey, Lutha M., and J. R. Salmon. Grass trimmer for sprinkler heads. 3,028,669, 4–10–62, Cl. 30—276.
Casler, Adrien F., and R. W. Love, to General Electric Co. Tube end inspection apparatus. 3,024,905, 3–13–62, Cl. 209—80.
Casler, Roger H.: *See*—
Eames, James O. 3,040,845.
Sanford, Roy S., and Eames. 3,055,458.
Casner Patents, Inc.: *See*—
Reuters, Herbert C. 3,023,330.
Cason, Lloyd D., and K. J. Dugas, to Texaco Inc. Releasable bumper block. 3,048,227, 8–7–62, Cl. 166—114.
Caspers, Willi: *See*—
Bovensiepen, Hans-Friedrich, and Caspers. 3,035,377.
Caspersen, Gerdt, to Acoplast Kunststoff-Verarbeitung G.m.b.H. Continuous production of profiled plastic sheets. 3,064,308, 11–20–62, Cl. 18—19.
Cass, Raymond C., R. Long, and M. P. Brown, to United States Borax and Chemical Corp. Preparation of cyclic tris(dialkylphosphinoborines). 3,032,590, 5–1–62, Cl. Cl. 260—606.5.
Cassan, Michel C. R., to Societe S. T. Dupont. Wheel ignited gas lighter. 3,064,276, 11–13–62, Cl. 67—7.1.
Cassano, James R.: *See*—
Laviana, Donald W., Fritz, and Cassano. 3,043,922.
Cassell, Joseph L., to The Reeve Electrical Co. Inc. Contactless direct current vibrating bell and motor mechanism. 3,027,554, 3–27–62, Cl. 340—392.
Cassell, Joseph L., to The Reeve Electrical Co., Inc. Bipolar reciprocating alternating current bell motor. 3,043,995, 7–10–62, Cl. 317—172.
Cassella Farbwerke Mainkur Aktiengesellschaft: *See*—
Gruber, Günter, and Wannow. 3,058,848.
Mix, Konrad. 3,053,678.
Casselle, Joseph. Junction box block and card. 3,045,204, 7–17–62, Cl. 339—198.
Casselman, Eldridge J., and J. P. Conant, to Philip Morris Inc. Method and apparatus for determining cutting ability of an edged metal tool. 3,025,747, 3–20–62, Cl. 88—14.
Casselman, Robert C., to Polaroid Corp. Self-developing camera with timing means. 3,068,771, 12–18–62, Cl. 95—13.
Cassels, Charles W. Floor-like structure construction. 3,044,366, 7–17–62, Cl. 189—82.
Cassiar Asbestos Corp. Ltd.: *See*—
Christian, John D. 3,021,008.
Cassidy, Joseph, R. Pals, and H. C. Harris, to FMC Corp. Process for the production of improved sodium tripolyphosphate. 3,054,656, 9–18–62, Cl. 23—106.
Cassidy, Robert, to Pace, Inc. Thermoresponsive switch means. 3,064,102, 11–13–62, Cl. 200—122.
Cassis, Frank A., to Standard Oil Co. Process of preparing 3,5-dimethylphenyl methyl carbinol. 3,024,286, 3–6–62, Cl. 260—618.
Cassler, Lennart: *See*—
Wilff, Sigurd, Henningsson, and Cassler. 3,062,561.
Cassman, Harry, to Electric & Musical Industries Ltd. Method of forming a photo-emissive surface and coated article. 3,023,131, 2–27–62, Cl. 117—210.
Cassman, Harry, and H. G. Lubszynski, to Electric & Musical Industries Ltd. Electron discharge devices. 3,027,478, 3–27–62, Cl. 313—67.
Castagliuolo, Ernest M., to Burroughs Corp. Tape and terminal fitting assembly. 3,019,504, 2–6–62, Cl. 24—265.
Castan, Pierre, and C. Gandillon, to Stella, S.A. Process for the manufacture of synthetic resins obtained by condensation and esterification. 3,028,348, 4–3–62, Cl. 260—19.
Castaño Muñoz, José, and E. Serrano Montijano. Dental brush. 3,064,660, 11–20–62, Cl. 132—84.
Cast-Die, Inc.: *See*—
Smith, Dale E. 3,025,727.
Castedello, William: *See*—
Kapsellaris, Howard K., and Castedello. 3,039,711.
Schwartz, Morris, and Castedello. 3,033,077.
Castel, Jacques H., to PGAC Development Co. Perforating guns. 3,018,730, 1–30–62, Cl. 102—20.
Castel, Jacques H., and L. M. Edwards, to PGAC Development Co. Method and apparatus for determining the dip of strata penetrated by a borehole. 3,068,400, 12–11–62, Cl. 324—1.
Castelijns, Henri F., to International Standard Electric Corp. Vacuum buffer. 3,065,892, 11–27–62, Cl. 226—97.
Castelli, Adolfo: *See*—
Geloso, Giovanni, and Castelli. 3,048,143.
Castelli, Arrigo: *See*—
Geloso, Giovanni, and Castelli. 3,028,111.
Castelli, Renato: *See*—
Longiave, Carlo, and Castelli. 3,061,600.
Longiave, Carlo, Castelli, and Greco. 3,032,544.
Castelli, Charles, and G. C. Ring, to Johnson & Johnson. Bandage and securing means. 3,036,572, 5–29–62, Cl. 128—171.
Castelow, Alfred H., to Sunflex Pty. Ltd. Means for cutting membranes. 3,037,238, 6–5–62, Cl. 17—43.
Castelvecchi, John J., to Grant Oil Tool Co. Valve seat puller. 3,016,604, 1–16–62, Cl. 29—255.
Casten, James W. Jacketed vessel and method of producing same. 3,054,524, 9–18–62, Cl. 220—15.
Castenschiold, Rene: *See*—
Spinelli, Frank P., and Castenschiold. 3,047,725.
Castiglia, Biagis, to Wheel Aligning Necessities, Inc. Wheel gauge. 3,023,511, 3–6–62, Cl. 33—203.15.
Castiglia, Frank J., to The Babcock & Wilcox Co. Pressure vessel closure. 3,039,645, 6–19–62, Cl. 220—25.
Castle, Alfred B. Instrument clamps. 3,021,585, 2–20–62, Cl. 24—279.
Castle, Charles P.: *See*—
Simonet, John F., and Castle. 3,063,839.

Castle, Chester W., and A. J. Vasselli; said Vasselli assor. to said Castle. Magnet puzzle game. 3,033,573, 5–8–62, Cl. 273—153.
Castle, Hilda H. Purse lining supported key holder. 3,025,580, 3–20–62, Cl. 24—13.
Castle, James B., Jr. Hydraulically actuated clamp for work severing device. 3,026,755, 3–27–62, Cl. 83—380.
Castle, James B., Jr. Hydraulically powered shear. 3,054,317, 9–18–62, Cl. 83—398.
Castle, William S., and J. B. Minnich, to General Motors Corp. Blade attachment. 3,056,581, 10–2–62, Cl. 253—77.
Castleberry, Jeff D.: *See*—
Norton, Desmond H., and Castleberry. 3,015,402.
Castles, Walter, Jr., to Georgia Tech Research Institute. Rotor blade. 3,066,742, 12–4–62, Cl. 170—159.
Castoe, John H. Spring compressor tool. 3,051,443, 8–28–62, Cl. 254—10.5.
Castor, Wilbur W. Ozone generator. 3,023,155, 2–27–62, Cl. 204—320.
Castrantas, Harry M.: *See*—
Latourette, Harold K., and Castrantas. 3,065,245.
Latourette, Harold K., and Castrantas. 3,065,246.
Castricone, John A., to American Motors Corp. Centering and stabilizing apparatus for a combined washing machine and extractor. 3,043,435, 7–10–62, Cl. 210—363.
Castro Convertible Corp.: *See*—
Willis, Sumner C. 3,041,634.
Castro, Raoul, and A. M. Hasse, said Hasse assor. to said Castro. Aircraft instrumentation. 3,045,483, 7–24–62, Cl. 73—178.
Castrol Ltd.: *See*—
Elliott, John S., and Edwards. 3,030,304.
Castrucci, Paul P. Optical viewing system. 3,020,806, 117—232.
Casty, Richard, and H. Abel, to Ciba Ltd. Process for dyeing nitrogenous material with sulfonated copper phthalocyanines. 3,049,392, 8–14–62, Cl. 8—3.
Caswell, Hollis L., to International Business Machines Corp. Vacuum evaporation method. 3,036,933, 5–29–62, Cl. 117—107.
Caswell, Hollis L., and C. Chiou, to International Business Machines Corp. Method of forming superconductive circuit. 3,058,852, 10–16–62, Cl. 117—212.
Caswell, Howard E., and J. W. Endress, to Carrier Corp. Controls for refrigeration apparatus. 3,022,638, 2–27–62, Cl. 62—115.
Caswell, John R., to Raytheon Co. Flow switches. 3,057,977, 10–9–62, Cl. 200—81.9.
Cataeycle Co., The: *See*—
Bland, Reginald B., and Ewing. 3,067,594.
Cataldi, Maria S., O. L. Galmarini, and J. Pahn, to Olin Mathieson Chemical Corp. Curamycin audricurin and its production. 3,015,607, 1–2–62, Cl. 167—65.
Cataldo, John, to I-T-E Circuit Breaker Co. Connecting means for electrical conductors embedded in an insulating housing. 3,018,463, 1–23–62, Cl. 339—164.
Cataldo, John B., R. W. Thomas, M. L. Mead, and N. Shackman, to I-T-E Circuit Breaker Co. Safety bus duct plug. 3,048,672, 8–7–62, Cl. 200—50.
Cataldo, Ottavio C., to American Bosch Arma Corp. Memory device. 3,048,828, 8–7–62, Cl. 340—174.
Cataldo, Roy S.: *See*—
Bidwell, Joseph B., and Cataldo. 3,022,850.
Catalfano, Frank P., and L. Rodrigues, to Marbill Co. Method of making shoes. 3,054,126, 9–18–62, Cl. 12—142.
Catallo, Frank: *See*—
Cohn, Eugene, Catallo, and Cohn. 3,015,145.
Cohn, Eugene, Catallo, and Cohn. 3,015,146.
Cohn, Samuel and E., and Catallo. 3,065,551.
Catallo, Leo: *See*—
Pickard, Albert F., Klapka, and Catallo. 3,035,647.
Catalysts and Chemicals Inc.: *See*—
Dienes, Edward K. 3,020,244.
Fleming, Harold W., and Gutmann. 3,050,571.
Hinsvark, Orville N. 3,032,515.
Reitmeier, Ronald E. 3,020,243.
Reitmeier, Ronald E. 3,020,245.
Catamaran Corp. of America: *See*—
Halperin, David. 3,051,503.
Cataphote Corp.: *See*—
Lincoln, John W., and Gordon. 3,020,811.
Searight, Charles E. 3,018,704.
Searight, Charles E. 3,035,928.
Catelli, Frank F., and D. G. Quigel. Portable lighting unit for clip boards or the like. 3,046,389, 7–24–62, Cl. 240—10.65.
Caterpillar Tractor Co.: *See*—
Bailey, John M. 3,057,334.
Bailey, John M., Engelking Hopper, and Jero. 3,022,232.
Beckham, Oscar S. 3,025,841.
Bernson, Elmer R. 3,058,787.
Brandes, Paul H., and Kiley. 3,035,559.
Chambers, Robert O., and Ramsel. 3,065,810.
Chambers, Robert O., Nordling, and Ramsel. 3,021,729.
Clark, Murl W., and Roberts. 3,035,724.
Cohron, Gerald T., and Mayo. 3,049,819.
Day, Ralph R., and Fabere. 3,050,165.
Eger, George W., Jr., and Costa. 3,025,722.
Fall, Harry W. 3,065,980.
Grant, Gerald E. 3,027,722.
Hein, Allyn J., Junck, and Winters. 3,068,596.
Helton, Eugene L., and Thomas. 3,038,267.
Caterpillar Tractor Co.: *See*—Continued
Hunger, Richard H., and Wuigk. 3,038,265.
Hunger, Richard H., and Wuigk. 3,063,510.
Jacobson, Wayne D., and Booth. 3,057,436.
Johnson, Lloyd E. 3,063,673.
Kimsey, Woodrow P., and Ryan. 3,015,173.
Kinney, John T. 3,025,387.
Larson, Donald J. 3,063,176.
Lichti, Robert W. 3,049,820.
Lichti, Robert W. 3,049,821.
Liess, Richard K. 3,025,620.
Peterson, Robert A., and Cohron. 3,035,361.
Sieving, Alfred W., and Greer. 3,057,666.
Simpson, Fred E., and Folkers. 3,050,346.
Sprick, William L. 3,027,706.
Ward, Harold L. 3,068,846.
Cates, Dafford D. Garment hanger. 3,050,222, 8–21–62, Cl. 223—96.
Cath, Pieter G., to Bell Telephone Laboratories, Inc. Signaling circuits. 3,020,348, 2–6–62, Cl. 179—8.3.
Cath, Pieter G., and W. Pferd, to Bell Telephone Laboratories, Inc. Impulse transmitting mechanism. 3,046,355, 7–24–62, Cl. 179—90.
Cathaway, Russ G.: *See*—
Hong, James, Cathaway, Richter, and Hastings. 3,023,985.
Cathcart, Ray G.: *See*—
Dawson, Joseph C., and Cathcart. 3,058,538.
Cathcart, William H., H. G. Beattie, and C. B. Berquist, to Great Atlantic & Pacific Tea Co., Inc. Method for coloring popcorn. 3,038,807, 6–12–62, Cl. 99—83.
Cathedral Kneeler Co.: *See*—
Hilliard, James M. 3,023,049.
Cathers, George I.: *See*—
Campbell, David O., and Cathers. 3,039,847.
Cathey, Carrol M., L. F. Wade, and A. R. Bechtold. House trailer protective apron. 3,042,425, 7–3–62, Cl. 280—150.
Cathey, Wayne C.: *See*—
Weil, Burt, and Cathey. 3,057,655.
Cathey, William B. Spring guide box front for loom shuttle box. Re. 25,198, 7–17–62, Cl. 139—185.
Cathodeon Ltd.: *See*—
Hall, Harvey S., and Everitt. 3,038,042.
Cathodic Protection Service: *See*—
Thorn, Floyd B., Jr. 3,050,660.
Catino, Sigmund C.: *See*—
Strobel, Albert F., and Catino. 3,052,636.
Strobel, Albert F., and Catino. 3,069,356.
Catino, Sigmund C., A. F. Strobel, and W. W. Willlams, to General Aniline & Film Corp. Azo dyestuffs. 3,022,284, 2–20–62, Cl. 260—146.
Catlin, Eric R.: *See*—
Mehta, Minoo D., and Catlin. 3,062,870.
Catlin, Robert T.: *See*—
Walker, Merle H., Reed, and Catlin. 3,054,110.
Catlin, Robert T., and N. M. Reed, to Remington Arms Co., Inc. Inertia operated sear block. 3,041,615, 7–3–62, Cl. 1—44.5.
Catlin, Robert T., and J. C. Sinex, to Remington Arms Co., Inc. Captive piston stud driver. 3,058,115, 10–16–62, Cl. 1—44.5.
Catlin, Robert T., and A. J. Landa, to Remington Arms Co., Inc. Explosively actuated animal stunning tool. 3,067,454, 12–11–62, Cl. 17—1.
Caton, Alfred M.: *See*—
Timmer, David J., Philbrick, Mossbarger, and Creton. 3,022,432.
Caton, John A., to Imperial Chemical Industries Ltd. Copolymerisation of trialiyl cyanurate and methyl methacrylate. 3,049,517, 8–14–62, Cl. 260—77.5.
Cator, Edward J., to Crawford Fitting Co. Quick connect coupling. 3,032,359, 5–1–62, Cl. 285—277.
Catron, William M., and T. F. Kenyon, to Continental Optical Co., Inc. Method of making lenses. 3,066,458, 12–4–62, Cl. 51—284.
Catt, Elizabeth. Eye glass attachment. 3,055,267, 9–25–62, Cl. 88—52.
Cattapan, Domenico: *See*—
Di Marco, Aurelio, Boretti, Barchielli, Spalla, Cattapan, and Bertazzoli. 3,026,316.
Cattaro, Matthew A.: *See*—
Neubrech, David A., and Cattaro. 3,020,793.
Neubrech, David A., and Cattaro. 3,069,013.
Cattermole, Kenneth W., to International Standard Electric Corp. Electric pulse modulating and demodulating circuits. 3,020,349, 2–6–62, Cl. 179—15.
Cattermole, Kenneth W., to International Standard Electric Corp. Electric signalling circuits. 3,059,060, 10–16–62, Cl. 179—84.
Catterson, Robert K., to Briggs & Stratton Corp. Internal combustion engine governor. 3,028,848, 4–10–62, Cl. 123—108.
Catto, Richard B.: *See*—
Boyce, John, and Catto. 3,067,849.
Cattorini, Joseph F., and D. E. Landis, to The National Cash Register Co. Check feeding mechanism. 3,067,998, 12–11–62, Cl. 271—12.
Caubet, Jacques J. Bearing. 3,049,384, 8–14–62, Cl. 308—240.
Cauble, Lowe D., to L. S. Garst. Target. 3,034,788, 5–15–62, Cl. 273—102.

Caubre, David H. Ant vault. 3,017,717, 1–23–62, Cl. 43—131.
Cauchois, Jean: *See*—
Brault, Yves, and Cauchois. 3,018,477.
Caudell, John J. Curtain rod bracket. 3,049,327, 8–14–62, Cl. 248—222.
Caudill, William L.: *See*—
Ruka, William A., and Caudill. 3,022,834.
Cauffman, Eugene W.: *See*—
Martin, John L., Cauffman, and Parker. 3,029,925.
Caufield, Donald C. Floor and base board cleaner. 3,060,476, 10–30–62, Cl. 15—49.
Caufield, Edward C. Heated asphalt roller device. 3,068,765, 12–18–62, Cl. 94—50.
Caughey, Robert A., to Antrim Moulding Co., Inc. Machine for the continuous manufacture of fibrous board. 3,044,-111, 7–17–62, Cl. 18—4.
Caughill, Robert F., and F. A. Disinger, to General Motors Corp. Cylindrical heat exchanger with tube banks. 3,018,-089, 1–23–62, Cl. 257—235.
Caughill, Robert F., and F. A. Disinger, to General Motors Corp. Toroidal heat exchangers. 3,033,534, 5–8–62, Cl. 257—235.
Cauley, Thomas K., to United States Steel Corp. Apparatus for detecting discontinuity in an electrical conducting object. 3,020,472, 2–6–62, Cl. 324—34.
Cauley, Thomas K., to United States Steel Corp. Counting apparatus. 3,020,473, 2–6–62, Cl. 324—34.
Cauley, Thomas K., and A. H. El Wazziri, to United States Steel Corp. Protective system for mill rolls. 3,055,243, 9–25–62, Cl. 80—57.
Caulk, L. D., Co., The: *See*—
Dougherty, Emery W. 3,047,408.
Caulkins, Bruce D., to Atlas Supply Co. Tires. 3,055,410, 9–25–62, Cl. 152—209.
Caunt, Alan, to Metalastik Ltd. Joints. 3,067,596, 12–11–62, Cl. 64—11.
Caunt, Anthony D., to Imperial Chemical Industries Ltd. Process for the preparation of composition of aluminum, titanium and chlorine having approximate composition $AlTiCl_{20}$. 3,032,390, 5–1–62, Cl. 23—51.
Causeway Reinforcement Ltd.: *See*—
Marsden, Andrew. 3,033,086.
Causey, George W. Lock for retaining braces on the scaffolding stud. 3,034,812, 5–15–62, Cl. 287—53.5.
Causey, George W. Scaffolding. 3,037,588, 6–5–62, Cl. 189—15.5.
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Woodcock, Edward C., Cauwe, and Debackere. 3,067,920.
Cavalcade Productions, Inc.: *See*—
McCulley, Dale. 3,035,836.
Cavalconte, Charles C., to Republic Aviation Corp. Electrical switch. 3,046,436, 7–24–62, Cl. 313—146.
Cavaliere, Richard J.: *See*—
Sirgo, Albert E., Jr., and Cavaliere. 3,040,708.
Cavalieri, Albert L., Jr., and R. W. Roop, to Philco Corp. Electromechanical reed system. 3,024,429, 3–6–62, Cl. 333—72.
Cavalieri, Emilio, to Carle & Montanari, S.p.A. Roller or trough machine for the final working up of chocolate. 3,058,413, 10–16–62, Cl. 99—236.
Cavalla, John F., and D. C. Bishop, to Parke, Davis & Co. Carbamic acid esters and means of producing the same. 3,068,277, 12–11–62, Cl. 260—482.
Cavallini, Guido, and E. Massarani, to Francesco Vismara S.p.A. γ-phenylbenzoyl-γ-arylaminocarbinol derivatives. 3,018,305, 1–23–62, Cl. 260—519.
Cavallini, Guido, and E. Massarani, to Francesco Vismara S.p.A. Substituted biphenyl glyoxal hydrates and alcoholates. 3,036,131, 5–22–62, Cl. 260—592.
Cavallini, Guido, and E. Massarani, to Francesco Vismara S.p.A. 2-(4-biphexylyl)Δ^4-hexenoic acid and derivatives as anticholesterinemic agents. 3,043,746, 7–10–62, Cl. 167—65.
Cavallini, Guido, and E. Massarani, to Francesco Vismara S.p.A. Isonicotinoyl hydrazones. 3,043,838, 7–10–62, Cl. 260—240.
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Cavallito, Chester J., and A. P. Gray, to Irwin Neisler and Co. Decahydrobenzopyridine quaternaries. 3,022,308, 2–20–62, Cl. 260—286.
Cavallito, Chester J., and A. P. Gray, to Irwin Neisler and Co. Unsymmetric bis-ammonium salts. 3,055,939, 9–25–62, Cl. 260—567.6.
Cavallo, Friedrich, Getriebe- und Zahnraderfabrik: *See*—
Petzhold, Hellmuth. 3,026,736.
Cavanagh, Daniel A. Magnetic concentration method. 3,045,821, 7–24–62, Cl. 209—214.
Cavanagh, Leonard A.: *See*—
Coulson, Dale M., and Cavanagh. 3,032,493.
Cavanagh, Patrick E. Method of reducing iron ores. 3,063,-826, 11–13–62, Cl. 75—38.
Cavanagh, Patrick E., to Research-Cottrell, Inc. Magnetic separator. 3,045,822, 7–24–62, Cl. 209—219.
Cavanaugh, Daniel J., to Radio Corp. of America. Method and material for metalizing ceramics and for making ceramic-to-metal seals. 3,031,316, 4–24–62, Cl. 106—1.
Cavanaugh, Edward F.: *See*—
Keil, Havard L., and Cavanaugh. 3,048,627.
Cavanaugh, William J., and T. Tschudi; said Tschudi assor. to said Cavanaugh. Method of identifying a person. 3,048,697, 8–7–62, Cl. 250—71.
Cavasos, Ervan C.: *See*—
Ingram, Hubert O., and Cavasos. 3,043,033.
Cavazos, Gregorio. Auto body and frame straightening machine. 3,034,564, 5–15–62, Cl. 153—32.
Cave, Robert S., and D. D. Alexander, to Dixie Tool Industries, Inc. Cutting tool. 3,058,199, 10–16–62, Cl. 29—103.
Cave, William T., to Monsanto Chemical Co. Resolution procedure and intermediates therefor. 3,038,937, 6–12–62, Cl. 260—534.
Cavel, Pierre, to Societe Anonyme dite: Vallourec. Method and apparatus for manufacturing welded tubing. 3,024,-348, 3–6–62, Cl. 219—62.
Caves & des Producteurs Reunis de Roquefort, Societe Anonyme des: *See*—
Bertrand, Jacques R. R. 3,046,656.
Caves, Thomas J. Grass shears. 3,038,257, 6–12–62, Cl. 30—248.
Caviglione, Alessandro, to Fabbrica Italiana Matite "Lyra" S. a.v. Automatic ball-point pen. 3,037,483, 6–5–62, Cl. 120—42.03.
Cavitron Ultrasonics Inc.: *See*—
Balamuth, Lewis, and Kleesattel. 3,047,955.
Balamuth, Lewis, Kuris, and Kleesattel. 3,053,124.
Kleesattel, Claus, Balamuth, and Kuris. 3,056,698.
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Kleesattel, Claus, Kuris, and Balamuth. 3,053,125.
Kuris, Arthur, Balamuth, and Kleesattel. 3,051,027.
Cawiezel, Virgil N. Odor escaping means for toilets. 3,066,-217, 12–4–62, Cl. 4—213.
Cawkell, Charles E., and A. Gould, to The Detroit Edison Co. Orifice plate installation. 3,026,910, 3–27–62, Cl. 138—44.
Cawley, John D.: *See*—
Reedy, Albert J., and Cawley. 3,068,292.
Cawley, William E., to United States of America, Atomic Energy Commission. Method and apparatus for control of a nuclear reactor. 3,068,161, 12–11–62, Cl. 204—154.2.
Cawley, William E., and C. E. Frantz, to United States of America, Atomic Energy Commission. Coupler for tool and cable. 3,023,040, 2–27–62, Cl. 287—119.
Cawood, Eric B. C., to Nu-Swift Ltd. Fire extinguishing composition. 3,063,940, 11–13–62, Cl. 252—2.
Cawthon, Thomas M., Jr., and G. G. Joris, to Allied Chemical Corp. Process and product of polymerizing ethylenic hydrocarbons. 3,050,514, 8–21–62, Cl. 260—94.9.
Cawthra, William A.: *See*—
Simpson, Arthur I. F., and Cawthra. 3,065,300.
Cayo, Alven A. Springable shoe heel and attaching means. 3,044,191, 7–17–62, Cl. 36—34.
Cayo, Edward L., deceased (J. Cayo, executor of said E. L. Cayo), to V. Dorstewitz. Pencil pointer. 3,042,003, 7–3–62, Cl. 120—91.
Cayo, Julius: *See*—
Cayo, Edward L. 3,042,003.
Cayot, Lynn B., to Commonwealth Co. Wall heater. 3,017,878, 1–23–62, Cl. 126—116.
Cayton CLemical Corp.: *See*—
Campbell, James W. 3,038,470.
Cayton, Robert J., to Vertical Blinds Corp. of America. Vertical Venetian blinds. 3,038,534, 6–12–62, Cl. 160—173.
Cayton, Robert J., to Vertical Blinds Corp. of America. Vertical Venetian blinds. 3,054,446, 9–18–62, Cl. 160—173.
Cayton, Van C., R. N. Montgomery, and J. Perret, to Diamond Alkali Co. Preparation of perchlorethylene. 3,061,652, 10–30–62, Cl. 260—654.
Caywood, Stanley W., Jr., and F. J. Keene, to E. I. du Pont de Nemours and Co. Resinous polyesters from an aliphatic polyhydride alcohol and a cyclopentane polycarboxylic acid. 3,021,308, 2–13–62, Cl. 260—75.
Cear, Stanley: *See*—
Wilson, Joseph E., and Cear. 3,061,497.
Cecce, Robert F.: *See*—
Kerley, James J., Jr., Hartenstein, and Cecce. 3,037,-728.
Cecchi, Vandio A. Universal cartridge holder. 3,025,743, 3–20–62, Cl. 86—44.
Cecere, Emil, to Howe Sound Co. Surgical saw. 3,044,171, 7–17–62, Cl. 30—166.
Cech, Karl, to A. Handler and K. Vockenhuber. Exposure metering device. 3,029,689, 4–17–62, Cl. 88—23.
Cech, Karl, to Karl Vockenhuber. Phonograph, particularly sound tape apparatus. 3,050,593, 8–21–62, Cl. 179—100.2.
Cechner, Frank A., and O. P. Sterner, to Signode Steel Strapping Co. Strap feeding and guiding device. 3,041,961, 7–3–62, Cl. 100—25.
Cecil, James R., and L. J. Stratton, to The Siegler Corp. Static excitation system for generators. 3,032,700, 5–1–62, Cl. 322—25.
Cecil, Roy G.: *See*—
Pauley, Stanley F., and Cecil. 3,029,565.
Cecil, Tom A.: *See*—
Alegrini, Aldo P., and Cecil. 3,050,863.
Ceco Steel Products Corp.: *See*—
Greulich, Gerald G. 3,036,356.
Cedarquist, Jack W.: *See*—
Graswich, Edward, and Cedarquist. 3,065,687.
Cedar Rapids Block Co.: *See*—
Payne, Matthew H., and Simpson. 3,027,920.

Cedar Rapids Engineering Co.: *See*—
Anderson, Vyron E. 3,049,838.
Humbert, Marvin H. 3,043,938.
Cederholm, Carl L. Bayonet reel. 3,045,788, 7–24–62, Cl. 189—90.
Cederstrom, Curtiss M., and C. W. Mellyn, to General Electric Co. Heat exchange assembly. 3,016,230, 1–9–62, Cl. 257—104.
Cedona, Haarlemmer Pharmaceutisiche Fabriek: *See*—
Zagt, Marinus A., Jr. 3,046,195.
Cee Bee Mfg. Co. Inc.: *See*—
Brooks, Charles, and Sutton. 3,046,174.
Brooks, Charles, Sutton, and Brownold. 3,045,742.
Cefaly, Ralph, to Taylor Instrument Companies. Acoustic stethoscope. 3,020,971, 2–13–62, Cl. 181—24.
Cel Elevator Co., Inc.: *See*—
De Negri, Ferdinando P. 3,018,565.
Celada, Juan, to Fierro Esponja SA. Ore treating apparatus. 3,052,457, 9–4–62, Cl. 266—24.
Celanese Corp. of America: *See*—
Allman, William T., Jr., Higgins, and Underwood. 3,068,-873.
Allman, William T., Jr., and Layman. 3,050,819.
Bortnek, Eugene, and Vona. 3,059,002.
Bottorf, George E. 3,033,240.
Breen, Stanley, and Peck. 3,064,173.
Carman, Alexander J., and Connor. 3,025,563.
Cipriani, Cipriano. 3,038,814.
Coates, Herbert W., and Frate. 3,063,454.
Conciatori, Anthony B. 3,021,188.
Dunn, Kenneth A. 3,069,433.
Evers, William L. 3,021,299.
Fennebresque, John D., and Muskat. 3,041,217.
Fortess, Fred, and Myles. 3,016,280.
Gyoerkoes, Tibor. 3,048,527.
Horn, Harvey S. 3,032,917.
Kay, James A., and Price. 3,034,278.
Keight, Albert W. 3,056,251.
Koch, John E., Jr. 3,036,005.
Kray, Raymond J., and Defazio. 3,026,299.
Lindlaw, William, and Hensch. 3,041,296.
Linville, Robert G. 3,053,809.
Linville, Robert G., Osborne, and Smart. 3,039,999.
Livingston, Malcolm R. 3,053,040.
Livingston, Malcolm R. 3,063,231.
Mahoney, William R., St. Pierre, and Dunlap. 3,032,829.
Palm, Clifford W., and Bragg. 3,022,563.
Pickard, Porter L., Jr., and Schmieding. 3,059,015.
Polacek, Robert J. 3,041,293.
Prinz, Roy, Gann, and Ramey. 3,039,940.
Riley, Jesse L. 3,057,030.
Riley, Jesse L., and Kip. 3,032,384.
Robeson, Max O., and George. 3,054,803.
Schneider, Alfred, and Zukowski. 3,039,887.
Schrage, Albert. 3,058,994.
Smart, Charles L. 3,069,482.
Soehngen, John W. 3,047,906.
Soehngen, John W. 3,057,038.
Stamps, William E., Merrill, and Livingston. 3,044,251.
Storey, Alvin B. 3,033,396.
Tingas, Arthur S. 3,063,126.
Walling, Cheves T., Brown, and Bartz. 3,027,352.
Weber, Harold, Brown, and Blake. 3,039,712.
Wheeler, Edward N., and Fisher. 3,029,253.
White, Edwin C. 3,025,130.
Wiech, George H., and Dragon. 3,041,295.
Wilberg, John B. 3,056,429.
Wilbur, Arnold G. 3,069,377.
Windholz, Thomas B. 3,056,827.
Witt, Enrique R. 3,059,016.
Wyart, John W., Vona, and Cunningham. 3,061,629.
Zeller, Carl N., and Porek. 3,021,320.
Celentano, Arnold J., to Bell Telephone Laboratories, Inc. Alarm signaling system. 3,061,678, 10–30–62, Cl. 179—5.
Celentano, Vincent D., and L. Hagan, to Olin Mathieson Chemical Corp. Method of anchoring nitrocellulose surface coatings and anchoring composition therefor. 3,044,-897, 7–17–62, Cl. 117—73.
Cella, John A.: *See*—
Brown, Edward A., and Cella. 3,036,069.
Cella, John A., to G. D. Searle & Co. 3,11-dioxygenated-17α-carboxyethylandrost-4-en-17β-ol lactone, nor compounds corresponding, and manufacturing processes. 3,043,837, 7–10–62, Cl. 260—239.57.
Cella, Joseph F.: *See*—
Russell, Robert J., Cella, and Towles. 3,053,402.
Cella Machinery Inc.: *See*—
Russell, Robert J., Cella, and Towles. 3,053,402.
Cella, Richard T. Mechanical toilet. 3,054,117, 9–18–62, Cl. 4—115.
Celleco, Aktiebolaget: *See*—
Janson, Bengt G. 3,024,911.
Celloplast, Aktiebolaget: *See*—
Lindquist, Curt A. J., Ohlander, and Thulin. 3,027,065.
Celmer, Walter D., to Chas. Pfizer & Co., Inc. Acyl esters of oleandomycin. 3,022,219, 2–20–62, Cl. 167—65.
Celmer, Walter D., to Chas. Pfizer & Co., Inc. Production of trans-β-styrylthioglycolic acid. 3,026,349, 3–20–62, Cl. 260—470.
Celmer, Walter D., to Chas. Pfizer & Co., Inc. New penicillins. 3,040,033, 6–19–62, Cl. 260—239.1.
Celmer, Walter D., K. Murai, J. B. Routien, and B. A. Sobin, to Chas. Pfizer & Co., Inc. Antibiotics PA–1033A and PA–1033B. 3,021,259, 2–13–62, Cl. 167—65.
Celotex Corp., The: *See*—
Burt, George H. 3,050,104.
Heinrich, Ludwig K. 3,015,301.
Heinrich, Ludwig K. 3,040,533.
Loechl, Clarence J. 3,043,014.
Celovsky, Michael J., to Lyon Inc. Apparatus for shaping sheet metal wheel covers. 3,016,853, 1–16–62, Cl. 113—48.
Celwood Industries Ltd.: *See*—
Baxter, Henry R. 3,060,487.
Baxter, Henry R. 3,061,348.
Cenusko, Fred, to Western Electric Co., Inc. Wire support device. 3,036,801, 5–29–62, Cl. 248—72.
Cementfabrik Holderbank-Wildegg A.G.: *See*—
Isler, Walter. 3,056,632.
Cenco Instruments Corp.: *See*—
Gabloffsky, Heinz. 3,022,844.
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Jankowski, Conrad M., Hyde, Reynolds, and Thoburn. 3,026,182.
Nakata, Arthur H. 3,045,702.
Cennamo, Anthony D., to Industrial Nucleonics Corp. Nuclear magnetic resonance measuring system. 3,021,475, 2–13–62, Cl. 324—5.
Centine & Biondins Cruciani S.p.A.: *See*—
Cruciani, Frido. 3,065,861.
Centore, Henry Q. Collar construction. 3,067,429, 12–11–62, Cl. 2—98.
Central Aguirre Sugar Co.: *See*—
Serbia, Gonzalo R. 3,044,904.
Central Engineering Co., Inc.: *See*—
Daneman, Ben. 3,052,908.
Central Farm Equipment Co.: *See*—
Hermann, Le Roy N. 3,054,733.
Tripp, Burrell H. 3,059,734.
Central Pharmacal Co., The: *See*—
Heckel, Herman C. N., and Jefferson. 3,063,906.
Novak, Leo J. 3,063,905.
Scott, Albert B. 3,034,960.
Central Products Co.: *See*—
Mankki, Onnie, and Wolaver. 3,062,131.
Central Soya Co., Inc.: *See*—
Fennig, Troy L. 3,057,562.
Kruse, Norman F. 3,020,159.
Kruse, Norman F., and Witte. 3,018,564.
Witte, Norman H., and Sipos. 3,033,683.
Witte Norman H., and Sipos. 3,069,443.
Central States Paper & Bag Co.: *See*—
Manthey, Carleton J. 3,053,128.
Centre Circuits, Inc.: *See*—
Benton, Robert C. 3,039,033.
Benton, Robert C. 3,040,603.
Benton, Robert C. 3,040,604.
Benton, Robert C. 3,050,034.
Centre d'Etudes et de Recherches des Phosphates Minéraux Cerphos: *See*—
Driessen, Augustin, and de Saint Chamant. 3,044,848.
Centre National de la Recherche Scientifique: *See*—
Bruma, Marc. 3,036,197.
Bruma, Marc, and Marx. 3,028,541.
Cugniard, Louis. 3,060,372.
Epelboin, Andree P. and **J. A. Sole.** 3,060,113.
Gavreau, Vladimir, Calaora, and Miane. 3,028,530.
Guillaud, Charles. 3,021,283.
Paquot, Charles, Lefort, and Sorba. 3,020,320.
Paquot, Charles, and Perron. 3,061,639.
Rose, Yves. 3,021,835.
Roucayrol, Jean-Claude, Oberhausen, and Schussler. 3,017,510.
Centre Technique des Industries de La Fonderie: *See*—
Ulmer, Georges. 3,061,296.
Vollanik, Nicolas. 3,058,822.
Century Brewery Corp.: *See*—
Conklin, Earl L. 3,066,821.
Century Electric Co.: *See*—
Schumaier, Irwin J. Re. 25,244.
Century Geophysical Corp.: *See*—
Vogt, Calvin O. 3,021,634.
Century Lighting, Inc.: *See*—
Williams, Rollo G. 3,037,110.
Cen-Vi-Ro Pipe Corp.: *See*—
Kell, Waldo R. 3,036,931.
Cepac, Inc.: *See*—
Williams, William E. 3,052,754.
Ceralo, Ted J. Religious kit. 3,024,901, 3–13–62, Cl. 206—19.
Ceramic Development Corp.: *See*—
Baldauf, Earl E. and J. A. 3,035,937.
Cerasani, Americo J., and J. J. Codichini, to Xerox Corp. Xerographic fusing apparatus. 3,053,962, 9–11–62, Cl. 219—19.
Cerasari, Nicholas. Nursing bottle. 3,043,464, 7–10–62, Cl. 215—100.
Cercuells Amiante Ltee—The Asbestos Caskets Ltd., Les: *See*—
Pare, Donat. 3,050,817.
Cérède, Jean: *See*—
Nominé, Gérard, and Cérède. 3,043,865.
Cermatori, Italo J. Rolling dies for threading, pointing and finishing screws. 3,019,677, 2–6–62, Cl. 80—9.

Cern, Harry S. : *See*—
McCorkle, Willard H., and Cern. 3,031,394.
Cernia, Enrico, and A. Bonvicini, to Montectini Societa Generale per l'Industria Mineraria e Chimica. Spinning solutions of polyvinyl chloride in mixtures of trichloroethylene and nitromethane. 3,036,926, 5–22–62, Cl. 260—32.4.
Cerny, Rudolph J., and T. K. Kjellman, to The Bendix Corp. Electrical fuel feed regulation device for engines. 3,030,-598, 4–17–62, Cl. 338—41.
Cerofolini, Gabriele F., to Automatic Electric Laboratories, Inc. Transistor tone generator and power amplifier. 3,037,171, 5–29–62, Cl. 331—108.
Cerofolini, Gabriele F., to Automatic Electric Laboratories, Inc. Pulse sender and register. 3,060,270, 10–23–62, Cl. 179—18.
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Cerro Corp. : *See*—
Coan, Richard L. 3,045,268.
Cersolsun Research Corp. : *See*—
Scholes, Addison B., 3,060,344.
Wright, James H. 3,036,374.
Certa, Anthony J., and C. H. Pool, to Philco Corp. Electroless plating process. 3,041,198, 6–26–62, Cl. 117—50.
Certa, Anthony J., and J. F. McMahon, Jr., to Philco Corp. Stem fabricating process. 3,069,876, 12–25–62, Cl. 65—43.
Certina Kurth Freres S.A. : *See*—
Perrot, Friedrich. 3,036,424.
Cerulli, Nicholas F., to Westinghouse Electric Corp. Electroluminescent lamp and method. 3,023,338, 2–27–62, Cl. 313—108.
Cerullo, Louis C. Guide for printing. 3,018,729, 1–30–62, Cl. 101—415.
Cervantes, Ralph : *See*—
Gould, Max R., Carroll, and Cervantes. 3,046,139.
Cerveny, Frank E., to The Dole Valve Co. Oven control valve. 3,042,308, 7–3–62, Cl. 236—99.
Cervetti, August D. Means to eliminate floating pin fault. 3,065,965, 11–27–62, Cl. 273—43.
Cerwin, Frank J., and J. A. Scott, to United States Steel Corp. Peeling apparatus and method. 3,018,700, 1–30–62, Cl. 90—24.
Cerwonka, Edward, to General Aniline & Film Corp. Photographic ultraviolet absorbers. 3,060,029, 10–23–62, Cl. 96—77.
Cerych, John Z., P. J. Clough, and R. W. Steeves, to National Research Corp. Vapor deposition coating apparatus. 3,029,777, 4–17–62, Cl. 118—49.
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Cesco Container Mfg. Corp. : *See*—
Driscoll, John E. 3,065,988.
Cessna Aircraft Co. : *See*—
Darling, Marvin C. 3,054,384.
Krehbiel, Robert D. Re. 25,147.
Krehbiel, Robert D. 3,033,233.
Cessna, John C., and R. L. Mallonee, to Union Carbide Corp. High reserve alkalinity anti-freeze. 3,046,229, 7–24–62, Cl. 252—74.
Cetran, Louis : *See*—
Braun, Karl J., and Cetran. 3,036,764.
Ryan, William P., and Cetran. 3,038,578.
Cetran, Louis, to Royal McBee Corp. Apparatus for producing uniform printwork. 3,026,986, 3–27–62, Cl. 197—127.
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La Treel, Jack K. 3,052,479.
Cha, Sung H., to The Patent and Licensing Corp. Method of preparing pulp for the production of insulating board and the like. 3,036,949, 5–29–62, Cl. 162—90.
Chabbal, Robert : *See*—
Jacquinot, Pierre, and Chabbal. 3,045,535.
Chabot, Leonard H. : *See*—
Turner, Wheeler M., and Chabot. 3,053,981.
Chabot, Robert E., Jr., to United States of America, Air Force. Interpolometer. 3,046,662, 7–31–62, Cl. 33—76.
Chace, Richard A., to Clemco Aero Products, Inc. Unlocking mechanism for a two-part extensible strut. 3,022,771, 2–27–62, Cl. 121—40.
Chace, Thomas B., to The Dole Valve Co. Distortable ice tray and control mechanism therefor. 3,026,684, 3–27–62, Cl. 62—132.
Chace, Thomas B., to The Dole Valve Co. Thermally responsive actuator. 3,027,729, 4–3–62, Cl. 62—135.
Chace, W. M., Co. : *See*—
Alban, Clarence F. 3,030,699.
Chacharis, Peter, to United States Steel Corp. Apparatus for handling wheel blanks entering and leaving rolling mill. 3,051,330, 8–28–62, Cl. 214—1.
Chadbourn Gotham Inc. : *See*—
Matthews, Robert M., and Kaylor. 3,027,737.
Chadder, Henry L. : *See*—
Crosfield, John F., Allen, Brimelow, and Price. 3,051,841.
Chadderton, John J. : *See*—
Dwinell, Dwight J., and Chadderton. 3,036,405.
Chade, Nelson. Device for altering phonograph speed. 3,047,296, 7–31–62, Cl. 274—9.
Chadenson, Lucien, to Safege-Transport, Societe Anonyme. Tubular beam for overhead vehicle track. 3,059,588, 10–23–62, Cl. 104—94.
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Chadney, Donovan C. : *See*—
Bryer, Robert F., and Chadney. 3,038,998.
Chadwick, Alexander, and T. Golec, Jr., to Chrysler Corp. Control mechanism for adjustable gas turbine nozzle. 3,044,262, 7–17–62, Cl. 60—39.25.
Chadwick, Cecil G. : *See*—
Downing, James H., Colton, and Chadwick. 3,048,484.
Chadwick, David H. : *See*—
Rentz, Theodor, Rusch, and Chadwick. 3,057,904.
Chadwick, David H., C. H. Campbell, and S. H. Metzger, to Monsanto Chemical Co. Method of preparing vinyl and substituted vinyl phosphonates by dehydrohalogenation. 3,064,030, 11–13–62, Cl. 260—461.
Chadwick, Earl L., to McDonough Co. Roto-edger tool. 3,047,999, 8–7–62, Cl. 56—256.
Chadwick, John L., to Delhi-Taylor Oil Corp. Conversion of metal chloride to the corresponding metal nitrate. 3,062,-616, 11–6–62, Cl. 23—102.
Chafetz, Harry : *See*—
Nolan, John T., Jr., and Chafetz. 3,024,226.
Chafetz, Harry, to Texaco Inc. Dibasic acid treating process. 3,036,126, 5–22–62, Cl. 260—537.
Chafetz, Harry, to Texaco Inc. Succinic acid and anhydride separation process. 3,036,127, 5–22–62, Cl. 260—537.
Chafetz, Harry, and G. W. Eckert, to Texaco Inc. Motor fuel containing an octane appreciator. 3,021,203, 2–13–62, Cl. 44—63.
Chafetz, Harry, and G. W. Eckert, to Texaco Inc. Motor fuel. 3,021,205, 2–13–62. Cl. 44—66.
Chafetz, Harry, G. W. Eckert, and A. Arkell, to Texaco, Inc. Motor fuel containing octane appreciator. 3,036,904, 5–29–62, Cl. 44—62.
Chaffee, Robert H., to The Procter & Gamble Co. Soap-synthetic bar. 3,070,547, 12–25–62, Cl. 252—121.
Chaffee, Robert H., R. P. Laskey, O. T. Quimby, and R. S. Bowles, to The Procter & Gamble Co. Process for preparing detergent compositions. 3,066,354, 12–4–62, Cl. 18—47.5.
Chaffin, Frank R., to W. S. Scanlan & Co. Continuous molding process and apparatus. 3,068,513, 12–18–62. Cl. 18—12.
Chaft, Marc E. Pulley device. 3,055,639, 9–25–62, Cl. 254—190.
Chagrin de Saint-Hilaire, Raoul M. F. : *See*—
Lamort de Gail, Marc, and Chagrin de Saint-Hilaire. 3,018,060.
Chaimowicz, Adam, to Rank Precision Industries Ltd. Generation and display of alpha-numeric and other symbols. 3,024,454, 3–6–62, Cl. 340—324.
Chaimowicz, Adam, to International Computers and Tabulators Ltd. Electric signal storage arrangements. 3,016,520, 1–9–62, Cl. 340—173.
Chaimowicz, Adam, to International Computers and Tabulators Ltd. Information storage apparatus. 3,026,499, 3–20–62, Cl. 340—174.
Chain Anodizers Inc. : *See*—
Ross, Herbert F. 3,046,214.
Chain Belt Co. : *See*—
Carrier, Robert M., Jr. 3,019,889.
Carrier, Robert M., Jr., and Morris. 3,024,663.
Conley, Weld E. 3,017,998.
Evans, Robley W., and Morris. 3,058,576.
Goble, Harry E. 3,022,379.
Hofmeister, William F. 3,063,576.
Katz, William J. 3,063,938.
Katz, William J. 3,063,939.
Kaufmann, Wilhelm. 3,015,382.
Lind, Arthur C. 3,044,627.
Morris, John M. 3,061,079.
Morris, John M. 3,062,414.
Morris, John M., and Evans. 3,058,235.
Musschoot, Albert. 3,056,488.
Musschoot, Albert. 3,058,577.
Musschoot, Albert. 3,061,074.
Musschoot, Albert. 3,068,996.
Potgieter, Fred M. 3,045,455.
Quast, Gilbert W. 3,015,396.
Quast, Gilbert W. 3,015,621.
Schmidt, Oliver G. 3,015,527.
Sorenson, Gerald T. 3,063,261.
Thuerman, John H. 3,036,695.
Westerman, Alvin G. 3,049,223.
Williams, Arthur H., and Fenrich. 3,068,552.
Chain, Ernst B., C. Bonino, and A. Tonolo, to Societa Farmaceutici Italia. Process for the production of alkaloid derivatives of lysergic acid. 3,038,840, 6–12–62, Cl. 195—81.
Chain, Ernst B., C. Bonino, and A. Tonolo, to Societa Farmaceutici Italia. Process for obtaining new alkaloid derivatives of lysergic acids. 3,060,104, 10–23–62, Cl. 195—81.
Chait, Herman N. : *See*—
Kales, Morris L., and Chait. 3,020,549.
Chait, Herman N., and M. L. Kales. Rectangular waveguide circulator. 3,036,278, 5–22–62, Cl. 333—9.
Chait, Herman N., and A. E. Marston. Linearly polarized spiral antenna system. 3,039,099, 6–12–62, Cl. 343—851.

Chait, Hyman, 55% to I. Stollman, 24% to S. M. Leitz, 17% to R. T. Gerloff, and 4% to L. Rosensweiz. Magnetic wheel lock. 3,031,038, 4–24–62, Cl. 188—111.
Chaiten, Harold, to General Electric Co. Electric incandescent lamp. 3,034,007, 5–8–62, Cl. 313—38.
Chaitow, Max: *See*—
Du Plooy, Wilhelm A. 3,049,700.
Chajmik, Joseph. Propeller. 3,044,559, 7–17–62, Cl. 170—172.
Chakravarti, Kamala K.: *See*—
Nayak, Ullal G., Chakravarti, and Bhattacharyya. 3,070,-625.
Chalcroft, Charles P. Portable basketball goal assembly. 3,017,183, 1–16–62, Cl. 273—1.5.
Chalcroft, Charles P. Ball game and apparatus. 3,024,024, 3–6–62, Cl. 273—1.
Chalfant, Arthur I.: *See*—
Dickson, John A., and Chalfant. 3,024,734.
Chalifin, Martin. Pack and coin receptacle. 3,059,767, 10–23–62, Cl. 206—84.
Chalifin, William L., to Wilmington Chemical & Rubber Corp. Plastic strips. 3,030,633, 4–24–62, Cl. 2—258.
Chalifin, William L., to Wilmington Chemical & Rubber Corp. Boning comprising a plastic strip. 3,064,270, 11–20–62, Cl. 2—260.
Chalich, Charles, and J. H. Beard, to Taylor Mfg. Co., Inc. Bottle case inverter. 3,058,606, 10–16–62, Cl. 214—308.
Chall, Harold J., to Friden, Inc. Calculating machine for converting scale readout to pounds and ounces. 3,036,763, 5–29–62, Cl. 235—61.
Chall, Harold J., and R. K. Brunner, to Friden, Inc. Zero setting control means. 3,021,055, 2–13–62, Cl. 235—60.4.
Chall, Harold J., and H. D. Foreman, to Friden, Inc. Calculating machine. 3,055,579, 9–25–62, Cl. 235—60.
Challange-Cook Bros., Inc.: *See*—
Cook, Howard F. 3,038,704.
Jackson, Robert E. 3,034,684.
Prichard, Evan S. 3,019,002.
Swarthout, Rassele E. 3,025,803.
Swarthout, Rassele E. 3,043,571.
Challas, William G., Jr., and E. S. Harris, to General Motors Corp. Shipping rack feet. 3,053,558, 9–11–62, Cl. 287—119.
Challender, Ronald S., and A. Roumph, to United Kingdom Atomic Energy Authority. Cooling systems for nuclear reactors. 3,053,746, 9–11–62, Cl. 204—193.2.
Challis, Anthony A. L., and W. E. A. Mitchell to Imperial Chemical Industries Ltd. Purification of gas mixtures. 3,036,137, 5–22–62 Cl. 260—677.
Chalmers, John W., and R. W. Harris, to Molins Machine Co. Ltd. Manufacture of packets for cigarettes. 3,057,-126, 10–9–62, Cl. 53—24.
Chalmers, Samuel A.: *See*—
Diehl, Thomas W., Harkreader, and Chalmers. 3,052,-790.
Chaloux, Edward J.: *See*—
Dock, Mortimer R., Chaloux, and Greene. 3,025,665.
Cham, Edward J.: *See*—
Colaiaco, August P., Miller, and Cham. 3,018,417.
Chamberlain, Arthur G., and R. E. Seymour, to Sperry Rand Corp. Carriage return control means. 3,048,252, 8–7–62, Cl. 197—66.
Chamberlain Corp.: *See*—
Kimball, George R., and Etten. 3,037,267.
Orser, Lawrence D. 3,028,741.
Webster, Edward J. 3,053,194.
Chamberlain, David L., Jr., to Callery Chemical Co. Preparation of sodium or potassium borohydride. 3,029,128, 4–10–62, Cl. 23—14.
Chamberlain & Hookham Ltd.: *See*—
McGuirk, Francis. 3,059,737.
Chamberlain, John, to United Aircraft Corp. Rocket propellant cycle. 3,049,870, 8–21–62, Cl. 60—35.3.
Chamberlain, Lester A. Milling cutter. 3,061,910, 11–6–62, Cl. 29—104.
Chamberlain, Merle D., and D. V. Todd, to Koppers Co., Inc. Corrosion inhibited wood treating solution. 3,039,843, 6–19–62, Cl. 21—2.5.
Chamberlain, Richard O., and C. E. Wakefield, Jr., to Richfield Oil Corp. Multiple zone control apparatus. 3,051,242, 8–28–62, Cl. 166—185.
Chamberlain, Robert J., to Raytheon Co. Method of storing a material within another material. 3,015,884, 1–9–62, Cl. 29—423.
Chamberlain, Robert J., and A. A. Donofrio. Outboard motor tilting carrier. 3,059,784, 10–23–62, Cl. 214—1.
Chamberlain, William H.: *See*—
Loud, Edgar R., and Chamberlain. 3,053,082.
Chamberlin, Earl M., and J. M. Chemerda, to Merck & Co., Inc. $\Delta^{8(9)}$-7,11-diol derivatives of the ergostane, cholane and spirostane series. 3,016,377, 1–9–62, Cl. 260—239.55.
Chamberlin, Frederick B., Jr., to Container Corp. of America. Chick shipping container with detachable feeder tray. 3,069,-060, 12–18–62, Cl. 229—6.
Chambers, Arthur E. Method of assembling and fastening laminations. 3,044,652, 7–17–62, Cl. 218—29.
Chambers, Caswell G., 50% to W. H. Shields. Tapping rod with lime coating. 3,058,735, 10–16–62, Cl. 266—42.
Chambers Corp.: *See*—
Chambers, John E. 3,015,229.
Chambers, John E. 3,023,747.
Chambers, David H.: *See*—
Sullivan, Paul M., and Chambers. 3,046,215.
Chambers, Edmund S.: *See*—
Furth, Harold P., and Chambers. 3,024,182.
Chambers, Frank H., and G. B. Moats, to Technical Rubber Co., Inc. Multi-ply tire repair unit. 3,036,620, 5–29–62, Cl. 152—367.
Chambers, Frank W., to Strategic Material Corp. Process for continuous casting and vacuum degasification. 3,050,-798, 8–28–62, Cl. 22—200.1.
Chambers, Harry D., to Eaton Axles Ltd. Hydraulic suspension for vehicle tandem axles. 3,049,362, 8–14–62, Cl. 280—124.
Chambers, Hubert H., and A. D. S. Tantram, to National Research Development Corp. Fuel cells. 3,068,311, 12–11–62, Cl. 136—86.
Chambers, John E., to Chambers Corp. Burner box for top burner unit. 3,015,329, 1–2–62, Cl. 126—39.
Chambers, John E., to Chambers Corp. Concealable burner assembly. 3,023,747, 3–6–62, Cl. 126—37.
Chambers, Orval V.: *See*—
Wright, Paul C., and Chambers. 3,049,333.
Chambers, Robert O., S. P. Nordling, and C. A. Ramsel, to Caterpillar Tractor Co. Planetary transmission for tractors or the like. 3,021,729, 2–20–62, Cl. 74—768.
Chambers, Robert O., and C. A. Ramsel, to Caterpillar Tractor Co. Auxiliary pump and controls for vehicles with hydraulic transmissions. 3,065,810, 11–27–62, Cl. 180—53.
Chambers, Robert R.: *See*—
Young, David W., Chambers, and Pare. 3,062,754.
Chambers, Thelma L., and E. de B. Dardis. Game. 3,037,-773, 6–5–62, Cl. 273—134.
Chambers, Torrence H. Elevation angle computer for stacked beam height finding radar system. 3,070,795, 12–25–62, Cl. 343—16.
Chambers, Vaughan C., Jr., to E. I. du Pont de Nemours and Co. Photographic gelatin-silver halide emulsions containing β-hydroxy-alkyl ethers of polyvinyl alcohol. 3,043,698, 7–10–62, Cl. 96—114.
Chambers, Vaughan C., Jr., to E. I. du Pont de Nemours, and Co. Photographic emulsions, containing hydrolyzed glycogen. 3,069,267, 12–18–62, Cl. 96—67.
Chambers, Vaughan C., Jr., and A. E. Oberth, to E. I. du Pont de Nemours and Co. Silver halide photographic emulsions containing linear polyamine sensitizing agents. 3,026,203, 3–20–62, Cl. 96—107.
Chambers, Victor S.: *See*—
Howland, Louis H., and Chambers. 3,049,501.
Howland, Louis H., and Chambers. 3,049,502.
Howland, Louis H., Chambers, and Aleksa. 3,049,500.
Chambers, Warren D., to The Bendix Corp. Liquid cooled friction brakes. 3,044,736, 7–17–62, Cl. 244—111.
Chambers, Warren D., to The Bendix Corp. Burnishing tool for counterbore radii. 3,059,315, 10–23–62, Cl. 29—90.
Chambers, William J., and D. D. Coffman, to E. I. du Pont de Nemours and Co. 1,2-bis-(fluoroalkyl)-1,2,3,6-tetrahydropyridazines. 3,023,208, 2–27–62, Cl. 260—250.
Chambersburg Engineering Co.: *See*—
Clarke, Eugene C., and Weyer. 3,048,019.
Hague, Wilmer W., and Householder. 3,043,271.
Chambon, Louis J., to Societe d'Etudes de Machines Speciales, Societe Anonyme. Flat-rib type cutting press. 3,057,241, 10–9–62, Cl. 83—510.
Chamot, Walter M., to Nalco Chemical Co. Aniline-aldehyde-polyamine polymers and their use as antioxidants in gasolines. 3,065,206, 11–20–62, Cl. 260—72.5.
Champion Co., The: *See*—
Mills, Joseph C. 3,040,925.
Rendon, Leandro. 3,057,775.
Champion Dish Washing Machine Co.: *See*—
Ellis, Sydney M. 3,044,601.
Champion Mfg. Co.: *See*—
Cooper, William M. 3,023,746.
Champion Paper and Fibre Co., The: *See*—
Hackley, Kenneth L. 3,029,153.
Champion Papers Inc.: *See*—
Carter, Thomas N. 3,052,339.
Green, Robert P., and Judd. 3,043,655.
Steffen, Raymond A. 3,041,200.
Warner, Edgar. 3,044,896.
Champion, Ronald H., to Eclipse Fuel Engineering Co. Tamper-proof insulated pipe coupling. 3,018,119, 1–23–62, Cl. 285—50.
Champion Spark Plug Co.: *See*—
Schurecht, Harry G. 3,037,140.
Schurecht, Harry G. 3,046,328.
Schurecht, Harry G. 3,046,434.
Champ-Items, Inc.: *See*—
Meyer, Glen F. 3,039,787.
Champlain Co., Inc.: *See*—
Auer, Frederick G., and Sorkin. 3,017,796.
Auerbacher, George N. 3,025,791.
Fischer, Paul E., Heatley, and Sorkin. 3,048,088.
Sorkin, Morris. 3,025,740.
Champlin, Charles L., Packaging Corp. of America. Carton and package including same. 3,042,194, 7–3–62, Cl. 206—65.
Champlin, John R., to Swindell-Dressler Corp. Furnace or like system for gas-supporting and treating flat work. 3,048,383, 8–7–62, Cl. 266—5.
Chan, Chester C. Face mask for diving. 3,051,957, 9–4–62, Cl. 2—14.
Chan, Kingsley, to Lightolier, Inc. Lighting fixture. 3,040,-172, 6–19–62, Cl. 240—78.

Chanaryn, Victor, P. S. Jeavons, and P. R. Pickard, to Wilmot-Breeden Ltd. Releasable fastening devices. 3,058,766, 10–16–62, Cl. 292—336.
Chance, A. B., Co.: *See*—
Bridges, Ronald P., and Curtis. 3,026,391.
Chance, Philip G. 3,054,049.
Fink, Miller H. 3,041,660.
McBride, Joseph R., and De Bolt. 3,070,680.
Newcomb, Cyrus B., Jr., and Renas. 3,019,287.
Reeves, Wilson A., Conner, and Chance. 3,065,111.
Rnoff, George M. 3,054,704.
Chance, Franklin S., and E. G. Martin, to Chas. Pfizer & Co., Inc. Anthelmintic composition and method of using same. 3,053,733, 9–11–62, Cl. 167—53.
Chance, Leon H.: *See*—
Reeves, Wilson A., Perkins, and Chance. 3,046,079.
Chance, Leon H., and W. A. Reeves, to United States of America, Agriculture. Wrinkle resistant cellulose textiles and processes for producing same. 3,038,776, 6–12–62, Cl. 8—116.2.
Chance, Philip G., to A. B. Chance Co. Electrical testing apparatus. 3,054,049, 9–11–62, Cl. 324—54.
Chance Vought Corp.: *See*—
MacDonough, Edward P. 3,016,047.
Chancellor, Forrest E. and R. O. Deep well pumping system. 3,044,414, 7–17–62, Cl. 103—206.
Chancellor, Robert O.: *See*—
Chancellor, Forrest E. and R. O. 3,044,414.
Chand, Gian. Surgical dressings. 3,052,237, 9–4–62, Cl. 128—156.
Chander, Kailash: *See*—
Seshadri, Tiruvenkata R., and Chander. 3,043,856.
Chandler, Arthur E. Vacuum safety device for tanks and the like. 3,048,189, 8–7–62, Cl. 137—586.
Chandler, Arthur E. Vacuum safety device for tanks and the like. 3,070,123, 12–25–62, Cl. 137—585.
Chandler, Austin S.: *See*—
Lakso, Elmo E., and Chandler. 3,031,556.
Chandler, Carroll F., to E. I. du Pont de Nemours and Co. Method of identifying cellulose acetate by fugitively tinting. 3,059,989, 10–23–62, Cl. 8—56.
Chandler, Clark. Powered cutting tools. 3,056,201, 10–2–62, Cl. 30—277.
Chandler, Clark. Powered cutting tools. 3,056,202, 10–2–62, Cl. 30—277.
Chandler, Delbert F.: *See*—
Schoelkopf, Hugo W., Jr., and Chandler. 3,042,939.
Chandler, Edward F. Thermo-transpiration portable air conditioner unit. 3,043,573, 7–10–62, Cl. 261—24.
Chandler, Edward F. Air treating and cooling device. 3,045,450, 7–24–62, Cl. 62—311.
Chandler-Evans Corp.: *See*—
Burns, Louis G. 3,026,929.
Chandler, Milton E., and Lipfert. 3,029,599.
Embree, John M. 3,041,822.
Prentiss, Augustin M. 3,022,628.
Wright, Alexander M. 3,032,986.
Chandler, Frank J., to Paton-Chandler Process Co. Spout type bag powered and the like materials. 3,042,287, 7–3–62, Cl. 229—62.5.
Chandler, Grover C., to American Can Co. Carton. 3,040,964, 6–26–62, Cl. 229—45.
Chandler, John P. Finger splint. 3,039,460, 6–19–62, Cl. 128—87.
Chandler, Jun J. (deceased), by Ruth L., executor, and R. P., Continuous variable pressure press. 3,068,920, 12–18–62, Cl. 144—281.
Chandler, Linden H.: *See*—
Beall, Richard W., Jr. 3,020,623.
Beall, Richard W., Jr. 3,033,247.
Chandler, Milton E., and D. E. Lipfert, to Chandler-Evans Corp. Jet engine afterburner fuel control. 3,029,599, 4–17–62, Cl. 60—35.6.
Chandler, Ollie W., to Commercial Solvents Corp. Process for the purification of nitrocyclohexane. 3,066,172, 11–27–62, Cl. 260—644.
Chandler, Ray P.: *See*—
Chandler, Jun J., R. L., and R. P. 3,068,920.
Chandler, Robert W., to Rotax Ltd. Air driven turbines. 3,051,449, 8–28–62, Cl. 253—77.
Chandler, Ruth L.: *See*—
Chandler, Jun J., and R. P. 3,068,920.
Chandler, Victor, to Combustion Engineering, Inc. Apparatus for gas analysis. 3,062,625, 11–6–62, Cl. 23—256.
Chaney, Preston E.: *See*—
Bennett, John, Chaney, Jones, and Mayes. 3,047,794.
Bennett, John, Chaney, Jones, and Mayes. 3,052,838.
Chaney, Preston E., to Sun Oil Co. Closure means for withstanding high pressures. 3,040,927, 6–26–62, Cl. 220—46.
Chang, Chieh C., to United States of America, Atomic Energy Commission. Superfast thermalization of plasma. 3,039,014, 6–12–62, Cl. 313—161.
Chang, Hung C.: *See*—
Le May, Charlotte Z., and Chang. 3,063,876.
Chang, Kern K. N.: *See*—
Bloom, Stanley, and Chang. 3,018,443.
Chang, Kern K. N., to Radio Corp. of America. Electron beam device. 3,020,440, 2–6–62, Cl. 315—3.5.
Chang, Melvin C.: *See*—
Dasher, John, and Chang. 3,017,665.
Chang, Robert W. H., to General Mills, Inc. Product and process for inhibiting corrosion. 3,036,879, 5–29–62, Cl. 21—2.7.
Changewood Corp.: *See*—
Lambert, Robert D. 3,067,855.
Chanmugam, Jayarajan, to Shell Oil Co. Regeneration of a nitrogen base containing ion exchanger. 3,019,182, 1–30–62, Cl. 208—254.
Chanmugam, Jayarajan, to Shell Oil Co. Regeneration of a nitrogen base containing ion exchanger. 3,019,199, 1–30–62, Cl. 260—2.2.
Channabasappa, Kenkere C., and P. G. Bird, to Wright Chemical Corp. Treatment of water. 3,036,305, 5–22–62, Cl. 21—2.7.
Chantiers de l'Atlantique (Penhoet-Loire): *See*—
Fournier, Jean P. 3,060,871.
Le Que, Andre. 3,066,595.
Chantiers Navals Franco-Belges: *See*—
Verneaux, Jean E. P. 3,062,170.
Chantler, Lewis W., and W. O. Hund, to Martin-Marietta Corp. Refractory composition. 3,030,216, 4–17–62, Cl. 106—58.
Chantler, Lewis W., and W. O. Hund, to Martin-Marietta Corp. Refractory ramming composition. 3,030,217, 4–17–62, Cl. 106—59.
Chantler, Lewis W., and W. O. Hund, to Martin-Marietta Corp. Magnesia gunning mixes. 3,047,411, 7–31–62, Cl. 106—81.
Chantler, Richard: *See*—
Smith, George E., and Chantler. 3,055,550.
Chantry, William A.: *See*—
Porter, Lee M., Chantry, and York. 3,050,554.
Chao, Shih C., to International Business Machines Corp. Apparatus for adding and multiplying. 3,027,082, 3–27–62, Cl. 235—164.
Chao, Tsai H.: *See*—
Hardy, William B., and Chao. 3,038,932.
Chapell, Harry F., to Raytheon Co. Traveling wave tubes. 3,054,016, 9–11–62, Cl. 315—3.5.
Chapelle, Walter E.: *See*—
Ziniuk, Michael A., and Chapelle. 3,037,383.
Chapin, Charles J.: *See*—
Cvetko, Henry J., and Chapin. 3,017,467.
Chapin, Donald A., A. Hassan, and W. J. Orr, to KVP Sutherland Paper. Wrapping or packaging machine. 3,053,026, 9–11–62, Cl. 53—179.
Chapin, Earl C.: *See*—
Abramo, John G., and Chapin. 3,038,890.
Abramo, John G., and Chapin. 3,063,975.
Abramo, John G., and Chapin. 3,065,198.
Abramo, John G., Chapin, and Garner. 3,065,210.
Garner, Albert Y., Abramo, and Chapin. 3,065,272.
Abramo, John G., and Chapin. 3,065,399.
Abramo, John G., Garner, and Chapin. 3,051,740.
Chapin, Earl C., to Monsanto Chemical Co. Interpolymers of allyl alcohol, vinyl chloride and dialkyl esters of alpha beta-ethylenically unsaturated dicarboxylic acids process for preparing same and blends with formaldehyde condensation resin. 3,036,029, 5–22–62, Cl. 260—45.2.
Chapin, Earl C., and J. G. Abramo, to Monsanto Chemical Co. Copolymers of 2-hydroxymethyl butadienes and 1,3-dienes. 3,041,320, 6–26–62, Cl. 260—82.1.
Chapin, Everett E., and H. F. La Duke. Mitre box with magnetic saw retaining means. 3,028,888, 4–10–62, Cl. 143—89.
Chapin, Howard R., to Sears, Roebuck and Co. Spin-cast fishing reel. 3,062,473, 11–6–62, Cl. 242—84.2.
Chapin, Leslie W.: *See*—
Fletcher, Taylor C., Brown, and Chapin. 3,068,450.
Chapin, R. E., Mfg. Works, Inc.: *See*—
Chapin, Ralph B. 3,034,731.
Chapin, Ralph B., to R. E. Chapin Mfg. Works, Inc. Back flow preventing valve assembly. 3,034,731, 5–15–62, Cl. 239—318.
Chaple, William F.: *See*—
Barra, Frank J., Chaple, and McMinn. 3,041,876.
Root, Phillip W., and Chaple. 3,030,754.
Chaplick, Adolph M.: *See*—
Phillips, Ferdinand N., Jr., Morris, and Chaplick. 3,020,169.
Chaplin, Charles J., to Diamond National Corp. Pulp molding machine. 3,016,090, 1–9–62, Cl. 162—385.
Chaplin, Charles J., to Diamond National Corp. Multi-functioning molded pulp article-packing member. 3,016,132, 1–9–62, Cl. 206—46.
Chaplin, Charles J., to Diamond National Corp. Molded pulp package. 3,016,177, 1–9–62, Cl. 229—2.5.
Chaplin, Charles J., to Diamond National Corp. Molded pulp article. 3,056,232, 10–2–62, Cl. 47—34.
Chaplin, George B. B., A. R. Owens, and C. J. N. Candy, to United Kingdom Atomic Energy Authority. Circuits for sampling oscilloscopes. 3,069,559, 12–18–62, Cl. 307—88.5.
Chaplin, Harvey R., Jr., to United States of America, Navy. Retractable auxiliary leading edge for high-speed wings. 3,064,927, 11–20–62, Cl. 244—42.
Chaplin, Merle P., to Diamond National Corp. Pulper. 3,021,080, 2–13–62, Cl. 241—69.
Chaplin, Merle P., to Diamond National Corp. Self-kindling carcoal briquette package. 3,028,228, 4–3–62, Cl. 44—14.
Chaplin, Merle P., to Diamond National Corp. Method of making molded pulp articles with relatively hard and soft portions and resulting article. 3,035,964, 5–22–62, Cl. 162—115.
Chaplin, Merle P., to Diamond National Corp. Pulp tank structures for pulp molding machines and method. 3,043,742, 7–10–62, Cl. 162—228.

Chaplin, Oliver F.: *See*—
Helversen, Frederick D., Chaplin, and Tellier. 3,021,254.
Chapman, Alan T., to Western Electric Co., inc. Fluid distribution system. 3,066,697, 12–4–62, Cl. 137—624.
Chapman, Aurelius F., to E. I. du Pont de Nemours and Co. Dyeing polyethylene terephthalate films with hot disperse dye-organic solvent mixture. 3,034,847, 5–15–62, Cl. 8—4.
Chapman, Aurelius F., and R. A. Sutherland, to E. I. du Pont de Nemours and Co. Film-covered shaped objects. 3,057,505, 10–9–62, Cl. 220—2.1.
Chapman, Charles M.: *See*—
Bauer, Robert D., and Chapman. 3,066,175.
Olson, Earl R., and Chapman. 3,018,198.
Chapman, Charles W., to F. Perkins Ltd. Variable speed power transmissions. 3,040,589, 6–26–62, Cl. 74—15.84.
Chapman Chemical Co.: *See*—
Behr, Eldon A. 3,049,471.
Chapman, Chester R. Extensible bar. 3,065,037, 11–20–62, Cl. 312—223.
Chapman, Clifford P. Photographic method for producing silhouette images. 3,067,034, 12–4–62, Cl. 96—35.
Chapman, David Z.: *See*—
Price, Duane W., and Chapman. 3,052,148.
Chapman, David Z., to Aerpat A.G. Universal cam lever fastener. 3,037,256, 6–5–62, Cl. 24—211.
Chapman, Dennis R., and C. E. Feiks, to Courtaulds Ltd. Apparatus for use in withdrawing twisted yarn from yarn packages. 3,043,537, 7–10–62, Cl. 242—128.
Chapman, Donald F., to Thorn Electrical Industries Ltd. Electrical inductors. 3,037,176, 5–29–62, Cl. 336—83.
Chapman, Douglas W.: *See*—
De La Mater, George B., and Chapman. 3,023,313.
Chapman, Edward C., to Combustion Engineering, Inc. Pressure welding using cooling contraction to press member ends together. 3,065,536, 11–27–62, Cl. 29—493.
Chapman, Everett, to Nordberg Mfg. Co. Ball mills. 3,030,036, 4–17–62, Cl. 241—175.
Chapman, Everett, to Nordberg Mfg. Co. Method of truing manganese castings. 3,050,850, 8–28–62, Cl. 29—552.
Chapman, Frederick W., E. A. Hanysz, E. F. Weller, Jr., and E. J. Martin, to General Motors Corp. Electromagnetic testing equipment. 3,022,451, 2–20–62, Cl. 317—146.
Chapman, Harry V., to The Eimco Corp. Lockable actuating lever. 3,048,052, 8–7–62, Cl. 74—531.
Chapman, Henry J. Game apparatus. 3,031,193, 4–24–62, Cl. 273—136.
Chapman, James M. Liquid level. 3,015,167, 1–2–62, Cl. 33—209.
Chapman, Leslie R., Jr., to General Precision, Inc. Navigation system. 3,070,331, 12–25–62, Cl. 244—77.
Chapman, Linwood R. Device to train dogs. 3,063,415, 11–13–62. Cl. 119—29.
Chapman, Lonnel, to J. J. Windham. Ground anchor for tethering element. 3,070,068, 12–25–62, Cl. 119—121.
Chapman, Paul R., J. O. Schimmel, and R. G. Moyer, to The Pure Oil Co. Method and apparatus for testing lubricants. 3,045,471, 7–24–62, Cl. 73—10.
Chapman, Ralph, to Wood Processes, Oregon Ltd. Apparatus for making composite board product. 3,028,293, 4–3–62, Cl. 156—372.
Chapman, Ralph, to Wood Processes, Oregon Ltd. Press apparatus forming composite boards. 3,061,878, 11–6–62, Cl. 18—17.
Chapman, Richard D.: *See*—
Campbell, Charles R., Chapman, and Johnson. 3,017,331.
Chapman, Richard D., C. R. Campbell, and R. Johnson, to The Chemstrand Corp. Process for recovering adipic acid from the reaction products of the air-oxidation of cyclohexane. 3,03,238, 2–27–62. Cl. 260—533.
Chapman, Richard F., to International Telephone and Telegraph Corp. Automatic gain control system. 3,025,473, 3–13–62, Cl. 330—136.
Chapman, Ronald W.: *See*—
Dille, Roger M., Chapman, and Ahlborn. 3,016,986.
Eastman, Du Bois, Dille, and Chapman. 3,069,251.
Chapman, Ronald W., J. C. Ahlborn, and R. M. Dille, to Texaco Inc. Carbon recovery. 3,044,179, 7–17–62, Cl. 34—9.
Chapman Valve Mfg. Co., The: *See*—
Rosch, Francis C., Jr. 3,052,446.
Chapman, Walter H., to General Electric Co. Top lifting fiber-board shipping crate. 3,029,994, 4–17–62, Cl. 229—23.
Chapman, William R.: *See*—
Luedicke, Alex H., Jr., and Chapman. 3,026,925.
Chapmon, Thomas W., to Collins Radio Co. Amplitude discriminating separator/amplifier. 3,056,090, 9–25–62, Cl. 328—115.
Chappell, Charles H., to Union Carbide Corp. Flexible high temperature thermoelectric device. 3,061,656, 10–30–62, Cl. 136—4.
Chappell, Edgar R. R., and H. Burns. Temperature compensating integrating circuits for counting electrical pulses. 3,018,963, 1–30–62, Cl. 235—183.
Chappell, Howard E.: *See*—
McConnell, William M., Bradley, Carey, and Chappell. 3,039,584.
Chappell, Story F. Dispenser having a float and gravity controlled closure. 3,070,266, 12–25–62, Cl. 222—464.
Chappell, William A., and R. E. McLean, to J. C. Hockery, trustee for H. J. and F. L. Talge. Automatic power operated can opener. 3,050,332, 10–23–62, Cl. 30—4.
Chappellier, André, to Commissariat a l'Energie Atomique. Device for dispensing emergency blankets. 3,049,389, 8–14–62, Cl. 312—324.
Charboneau, Arthur L.: *See*—
Frechette, Leo P., Jr., McGrath, Charboneau, and Wheeler. 3,038,582.
Charbonnages de France: *See*—
Foch, Pierre. 3,043,752.
Charbonneau, Lloyd J. Lumber salvaging tool. 3,069,139, 12–18–62, Cl. 254—131.
Charcuset, Raymond, and J. Moyrand, to Compagnie de Saint-Gobain. Device for filling containers with predetermined quantities of materials. 3,024,857, 3–13–62, Cl. 177—71.
Chareton, Jean: *See*—
Charonnat, Raymond, Lechat, Chareton, and Boime. 3,031,457.
Charipar, Jack E., to Chrysler Corp. Automotive vehicle body roof support. 3,027,186, 3–27–62, Cl. 296—28.
Charlat, Arnold S., to Brown & Sharpe Mfg. Co. Machine tool with tool carrier. 3,023,677, 3–6–62, Cl. 90—17.
Charle, Roger, and J. Pomot, to Societe Monsavon- l'Oreal, Societe Anonyme dite: Anhydrous anion-active detergents in the form of aerosols. 3,055,834, 9–25–62, Cl. 252—90.
Charles, Daniel R., A. J. Velte, P. Dreyfus, and G. Pamelard, to Commissariat a l'Energie Atomique. Purification apparatus for the removal of impurities from fluids, in particular for mass spectrometer circuits. 3,041,840, 7–3–62, Cl. 62—40.
Charles, David H., W. R. Benjamin, W. D. Grigsby, Jr., and R. R. Busch, to Grigsby Bros. Paper Box Mfrs. Machine for setting up collapsed carrier cartons. 3,069,979, 12–25–62, Cl. 93—37.
Charles, Frank E. Holder for medicated cartridge for douche bag. 3,048,174, 8–7–62, Cl. 128—227.
Charles, Geoffrey R. S., to Chelton (Poppits) Ltd. Moulding plastic articles. 3,030,663, 4–24–62, Cl. 18—47.5.
Charles, Geoffrey R. S., and W. T. Sanderson, to Chelton (Hong Kong) Ltd. Stringless necklace beads having rigid bodies with resilient sockets therein. 3,066,501, 12–4–62, Cl. 63—2.
Charles, Harold. Chemical testing means. 3,043,669, 7–10–62, Cl. 23—253.
Charles, Malcolm J.: *See*—
Campbell, Frank S., Frank, and Charles. 3,015,408.
Campbell, Frank S., Frank, and Charles. 3,015,409.
Charles, Ralph J. Baby guard. 3,041,594, 6–26–62, Cl. 340—285.
Charles, Stanley. Amphibious tractor. 3,030,908, 4–24–62, Cl. 115—1.
Charleston Molded Fiber Glass Co.: *See*—
Van Buren, Tracy H., Jr. 3,031,227.
Charleston Rubber Co.: *See*—
Belknap, Paul A., and Kellen. 3,025,403.
Hallett, Galen M., Jr. 3,051,963.
Charley, Walter A.: *See*—
Charley, Walter G. and W. A. 3,019,575.
Charley, Walter A. Weighing and bagging machine. 3,042,127. 7–3–62, Cl. 177—68.
Charley, Walter G. and W. A. Apparatus for inserting straws or the like. 3,019,575. 2–6–62, Cl. 53—59.
Charlson, Lynn L., to Germane Corp. Controller for fluid pressure operated devices. Re. 25,126, 2–20–62, Cl. 121—41.
Charlson, Lynn L., to Germane Corp. Fluid pressure device and valve. Re 25,291, 12–4–62, Cl. 121—39.
Charlton, Kyle W.: *See*—
Strange, John P., Charlton, and Yant. 3,016,107.
Charlton, Ralph W., and R. J. Sergi, to Congoleum-Nairn Inc. Decorative surface covering and process therefor. 3,040,210, 6–19–62, Cl. 317—2.
Charlton, Richard E., Jr., G. Manning, and V. L. Payne, to West Point Mfg. Co. Method and apparatus for producing unwoven fabrics. 3,052,928, 9–11–62, Cl. 19—156.
Charm, Stanley E. Disposable bacteriological kit. 3,039,938, 6–19–62, Cl. 195—139.
Charman, Frederick J. H., to Electric & Musical Industries Ltd. Cavity loaded slot antenna. 3,056,130, 9–25–62, Cl. 343—767.
Charney, John G.: *See*—
Hultgren, William H., Charney, and Walulik. 3,069,015.
Charnock, George H., Jr. Combination safety gib and locking means for straight edges in line-up and register tables. 3,026,623, 3–27–62, Cl. 33—184.5.
Charnow, Solomon: *See*—
Rhodes, Alex, and Charnow. 3,049,774.
Charon, Clarence W.: *See*—
Marzocchi, Alfred, Rammel, and Charon. 3,066,383.
Charonnat, Raymond, deceased, by S. C. Charonnat, executrix P. Lechat, J. Chareton, and A. Boime. Salts of 4-methyl-5 (β-halogenoethyl)-thiazole and certain sulfonic acids. 3,031,457, 4–24–62, Cl. 260—302.
Charonnat, Solange C.: *See*—
Charonnat, Raymond, Lechat, Chareton, and Boime. 3,031,457.
Charpentier, Maurice: *See*—
Levecque, Marcel, and Charpentier. 3,017,663.
Charpentier, Maurice, and L. Berthon, to Societe Anonyme des Manufactures des Glaces & Produits Chimiques de Saint-Gobain, Chauny & Cirey. Apparatus for producing fibers. 3,020,586, 2–13–62, Cl. 18—2.5.

Charschan, Sidney S., to Western Electric Co., Inc. Device for terminating insulated conductors. 3,028,480, 4–3–62, Cl. 219—78.

Charschan, Sidney S., to Western Electric Co., Inc. Heating and conductive-lead-cutting means for semiconductor devices. 3,048,689, 8–7–62, Cl. 219—68.

Charske, Charles J.: *See*—
Ball, John D., and Charske. 3,056,105.

Chartier, Edmund G., to Sunbeam Corp. Electric clock motor. 3,035,194, 5–15–62, Cl. 310—162.

Chartier, Guy N. Dent-removing hand tool. 3,030,837, 4–24–62, Cl. 81—15.

Chartier, Raymond A.: *See*—
Mankowich, Ivan, and Chartier. 3,053,791.
Mankowich, Ivan, Chiavetta, and Chartier. 3,042,034.

Chart-Pak, Inc.: *See*—
Frohnsch, Louis A. 3,035,690.

Charvat, Vernon K., to The Osborn Mfg. Co. Material applicator system. 3,044,227, 7–17–62, Cl. 51—263.

Charvat, Vernon K., to The Osborn Mfg. Co. Method and apparatus for making a composite brushing tool. 3,044,-333, 7–17–62, Cl. 300—2.

Charvat, Vernon K., to The Osborn Mfg. Co. Extrusion removal tool. 3,068,758, 12–18–62, Cl. 90—13.4.

Chasan, Arthur M. Automatic knife sharpener. 3,064,393, 11–20–62, Cl. 51—59.

Chase Bag Co.: *See*—
Means, John W., and Moore. 3,065,899.

Chase Chemical Co.: *See*—
Baron, Abraham L. 3,067,109.

Chase, Corson W., W. J. Jasinowski, and A. V. Pedersen, to Miehle-Goss-Dexter, Inc. Controls for web splicing apparatus. 3,062,466, 11–6–62, Cl. 242—58.3.

Chase, Corson W., W. J. Jasinowski, and A. V. Pedersen, to Miehle-Goss-Dexter, Inc. Controls for web splicing apparatus. 3,062,467, 11–6–62, Cl. 242—58.3.

Chase, Earle M.: *See*—
Newell, Kenneth F., Crescenzo, Chase, and Mehlhorn. 3,061,989.
Newell, Kenneth F., Crescenzo, Chase, and Mehlhorn. 3,067,555.

Chase, Fletcher A., to North Woods Coffee Co. Method of preparing stable egg-impregnated green coffee. 3,051,575, 8–28–62, Cl. 99—65.

Chase, Frederic L., and C. W. Ewing, to General Motors Corp. Method of quenching and quenching liquid. 3,022,205, 2–20–62, Cl. 148—20.6.

Chase, Herbert. Insulated carrier. 3,031,121, 4–24–62, Cl. 229—14.

Chase, John A., to Radio Corp. of America. Apparatus for use with automatic grid winding machines. 3,037,533, 6–5–62, Cl. 140—71.5.

Chase, John A., to Radio Corp. of America. Device for loading wire work pieces. 3,067,495, 12–11–62, Cl. 29—203.

Chase, Ralph S., and D. M. Park, to Metropolis Bending Co. Safety table with endless securing strip thereon. 3,055,-722, 9–25–62, Cl. 311—108.

Chase, Robert C.: *See*—
Fletcher, Harry W., and Chase. 3,059,097.

Chase, Robert L., to United States of America, Atomic Energy Commission. Amplitude discriminator having separate triggering and recovery controls utilizing automatic triggering. 3,018,386, 1–23–62, Cl. 307—88.5.

Chase-Shawmut Co., The: *See*—
Hitchcock, Paul C. 3,042,794.
Kozacka, Frederick J. 3,017,558.
Kozacka, Frederick J. 3,020,372.
Kozacka, Frederick J. 3,029,328.
Swain, Kenneth W. 3,020,370.

Chase, Wallace P., to General Precision, Inc. Analog-digital converter. 3,030,617, 4–17–62, Cl. 340—347.

Chase, Walter C.: *See*—
Rodriguez, Joseph M., and Chase. 3,048,426.

Chase, Walter M., W. E. Gustafson, R. F. Hall, J. L. Kievens, J. D. Campbell, and D. E. Porciuncula, to United States of America, Navy. Direct voltage standing wave ratio measurement. 3,031,155, 4–24–62, Cl. 324—58.

Chase, Willis E., Jr., to The Bendix Corp. Dual position latching solenoid. 3,022,450, 2–20–62, Cl. 317—123.

Chasek, Norman E., to Bell Telephone Laboratories, Inc. Broadband radio relay system in which signals from adjacent repeaters are compared to control gain of each repeater. 3,028,489, 4–3–62, Cl. 250—15.

Chasek, Norman E., to Bell Telephone Laboratories, Inc. Pulse code modulation encoder. 3,035,258, 5–15–62, Cl. 340—347.

Chass, Jacob, to International Resistance Co. Differential transformer. 3,017,589, 1–16–62, Cl. 336—136.

Chass, Jacob, to International Resistance Co. Non-symmetrical differential transformer. 3,017,590, 1–16–62, Cl. 336—136.

Chass, Jacob, to International Resistance Co. Differential transformer. 3,031,633, 4–24–62, Cl. 336—136.

Chasse, Edward: *See*—
Marks, Raymond, and Chasse. 3,066,353.

Chassis Metallique Belge "Chamebel" S.A., Le: *See*—
Golde, Dimitri, and Vierendeel. 3,047,891.

Chatagnier, Francis J. Asparagus harvester. 3,066,469, 12–4–62, Cl. 56—327.

Chatel, Serge, and G. Nief, to Commissariat a l'Energie Atomique. Magnetic densimeter. 3,040,585, 6–26–62, Cl. 73—453.

Chatfield, Henry B., to Textron, Inc. Method of and apparatus for making metal washers. 3,036,348, 5–29–62, Cl. 10—72.

Chatfield, Henry B. Double blow header. 3,048,063, 8–7–62, Cl. 78—9.

Chatfield, Herbert W., and G. A. Weeks, to A. Boake, Roberts & Co. Ltd. Reaction products of epoxidised oils. 3,042,-687, 7–3–62, Cl. 260—348.

Chatham, George N., and O. O Shurtleff, to Chatleff Controls, Inc. Diverting valve with seats of different sizes. 3,026,-906, 3–27–62, Cl. 137—625.4.

Chatham, George N., and O. O Shurtleff, to Chatleff Valve & Mfg. Co. Check valve. 3,027,913, 4–3–62, Cl. 137—484.2.

Chatham, George N., and O. O Shurtleff, to Chatleff Controls, Inc. Diverting valve with independent pistons. 3,030,981, 4–24–62, Cl. 137—625.

Chatham, George N., and O. Shurtleff, to Chatleff Controls, Inc. Fluid pressure operated valves. 3,057,377, 10–9–62, Cl. 137—625.5.

Chatlain, Robert R., 50% to J. E. Sullivan. Motion analyzer. 3,016,812, 1–16–62, Cl. 95—11.

Chatleff Controls, Inc.: *See*—
Chatham, George N., and Shurtleff. 3,026,906.
Chatham, George N., and Shurtleff. 3,030,981.
Chatham, George N., and Shurtleff. 3,057,377.

Chatleff Valve & Mfg. Co.: *See*—
Chatham, George N., and Shurtleff. 3,027,913.

Chattanooga Medicine Co., The: *See*—
Zimmer, Hans W., and Holbert. 3,030,361.
Zimmer, Hans W., and Holbert. 3,031,446.
Zimmer, Hans W., and Holbert. 3,031,448.

Chatten, John B.: *See*—
Keiper, Francis P., Jr., Chatten, and Moulton. 3,041,392.

Chatten, John B., to Philco Corp. Color television receiver indexing apparatus. 3,041,391, 6–26–62, Cl. 178—5.4.

Chatten, Victor H., to Anheuser-Busch, Inc. Beer barrel tapping device. 3,065,885, 11–27–62, Cl. 222—400.7.

Chatterton, John B., to Moeller Instrument Co. Shielding of transducers. 3,039,042, 6–12–62, Cl. 323—44.

Chattin, Robert C. Ditcher apparatus. 3,041,751, 7–3–62, Cl. 37—98.

Chattin, Robert C. Wheel supported ditcher. 3,050,882, 8–28–62, Cl. 37—98.

Chaudron, Georges: *See*—
Caro, Michel, Chaudron, and Moreau. 3,016,237.

Chaumette, Paul: *See*—
Auzolle, Robert, Chaumette, Garin, and Prugne. 3,045,-642.

Chausse, Burnette P.: *See*—
Bolander, Warren W., and Chausse. 3,068,451.

Chausson, André, to Chausson, Societe Anonyme des, Usines. Electromagnetically-controlled compressing and pumping devices. 3,039,395, 6–19–62, Cl. 103—53.

Chausson, André, to Societe Anonyme des Usines Chausson. Machine for making strips of great length and more particularly for manufacturing radiator fins and similar applications. 3,060,991, 10–30–62, Cl. 153—1.

Chausson, Andre, to Societe Anonyme des Usines Chausson. Bending machine. 3,066,718, 12–4–62, Cl. 153—2.

Chausson, Societe Anonyme des Usines: *See*—
Chausson, André. 3,039,395.
Chausson, André. 3,060,991.
Chausson, Andre. 3,066,718.
Piegat, Alain E. 3,058,649.

Chauvac, Henriette: *See*—
Borotra, Henriette. 3,023,429.

Chauvin, Bernard, and F. T. May, to Westinghouse Electric Corp. Article inspection device. 3,017,991, 1–23–62, Cl. 209—88.

Chauvin, John, small percentages to various assignees. Traction mechanism. 3,018,837, 1–30–62, Cl. 180—7.

Chauvin, Leo P., 50% to K. Rath. Capacitor flash light system. 3,024,386, 3–6–62, Cl. 315—183.

Chavand, Rene. Belt gearing. 3,031,894, 5–1–62, Cl. 74—216.5.

Chavannes, Marc A., to Sealed Air Corp. Methods for making embossing rollers. 3,018,540, 1–30–62, Cl. 29—148.4.

Chavannes, Marc A., to Sealed Air Corp. Method of making an embossed laminated structure. 3,026,231, 3–20–62, Cl. 156—205.

Chaves, Aurelius, Jr., and D. I. Hall, to Moog Servocontrols, Inc. Mechanical feedback flow control servo valve. 3,023,-782, 3–6–62, Cl. 137—623.

Chaves, Aurelius, Jr., and W. C. Moog, Jr., to Moog Servocontrols, Inc. Servoactuator. 3,065,735, 11–27–62, Cl. 121—41.

Chaze, Paul: *See*—
Grandjean, Arthur. 3,055,113.

Chebiniak, Paul, to General Aniline & Film Corp. Treatment of metal surfaces for the manufacture of lithographic plates. 3,030,210, 4–17–62, Cl. 96—75.

Chebuhar, Charles J., and P. E. Pearson, to Continental Can Co., Inc. Body blank flanging mechanism. 3,058,512, 10–16–62, Cl. 153—16.

Chechak, Jonas J.: *See*—
Dann, John R., and Chechak. 3,046,134.

Check, Mathias M., to The Yale and Towne Mfg. Co. Drawer control. 3,017,655, 1–23–62, Cl. 16—82.

Check, Mathias M., to The Yale and Towne Mfg. Co. Door closer. 3,044,103, 7–17–62, Cl. 16—49.

Check, Mathias M., to The Yale and Towne Mfg. Co. Privacy latch. 3,057,649, 10–9–62, Cl. 292—74.

Check, Mathias M., to The Yale & Towne Mfg. Co. Construction key tumbler cylinder assembly. 3,059,462, 10–23–62, Cl. 70—384.
Check, Mathias M., and P. P. Kubik, to The Yale and Towne Mfg. Co. Mounting for cylinder lock. 3,038,749, 6–12–62, Cl. 292—337.
Checkley, Peter E., and R. J. Hollis, to Dowty Hydraulic Units Ltd. Release mechanism for automatic vehicle couplers. 3,033,386, 5–8–62, Cl. 213—217.
Checkley, Peter E., and D. E. Bick, to Dowty Hydraulic Units Ltd. Apparatus for controlling the velocity of wheeled vehicles. 3,040,676, 6–26–62, Cl. 104—162.
Check-Out Advertising, Inc.: *See*—
Cohen, Sheldon N. 3,042,426.
Chedister, Conkling and R. K. Driver training and testing equipment. 3,015,169, 1–2–62, Cl. 35—11.
Chedister, Conkling and R. K. Swing indicator for a golf club. 3,037,777, 6–5–62, Cl. 273—186.
Chedister, Conkling and R. K. Swing indicator for a golf club. 3,037,778, 6–5–62, Cl. 273—186.
Chedister, Ronald K.: *See*—
Chedister, Conkling and R. K. 3,015,169.
Chedister, Conkling and R. K. 3,037,777.
Chedister. Conkling and R. K. 3,037,778.
Cheek, Forrest R.: *See*—
Borman, August H., Jr., Cheek, Scheiter, and Herndon. 3,048,055.
Cheeley, William E., to Reynolds Metals Co. Shrinkable container closure and manufacture thereof. 3,017,729, 1–23–62, Cl. 53—27.
Cheeley, William E., to Reynolds Metals Co. Flanged container having controlled corner folds. 3,038,634, 6–12–62, Cl. 220—62.
Cheeley, William E., and W. C. MacPherson, to Reynolds Metal Co. Machine for wrapping a cover over a receptacle. 3,036,416, 5–29–62, Cl. 53—342.
Cheese Molding Machine Co.: *See*—
Elder, Boyd B., and Pontecorvo. 3,041,153.
Cheesman, John J., and M. R. Mills, to Automatic Strapping Machines Ltd. Package and like binding mechanism. 3,046,871, 7–31–62, Cl. 100—26.
Cheetham, Robert A., to General Motors Corp. Brush holder. 3,028,515, 4–3–62, Cl. 310—247.
Chegwidden, Raymond A., to Bell Telephone Laboratories, Inc. Microwave ferrite devices. 3,059,194, 10–16–62, Cl. 333—24.
Chegwidden, Thomas H., to Bell Telephone Laboratories, Inc. Magnetic amplifier. 3,064,181, 11–13–62, Cl. 323—56.
Cheh, Ernest L.: *See*—
Anderson, James D., and Cheh. 3,021,738.
Cheifetz, Howard L., M. Look, and J. R. McLaughlin, to Fundamental Research Co. Preparation of 1,3-dinitronaphthalene. 3,065,278, 11–20–62, Cl. 260—645.
Cheilik, Philip, to International Telephone and Telegraph Corp. Transistor multivibrator. 3,020,417, 2–6–62, Cl. 307—88.5.
Chelf, Clarence C. Device for stringing archery bows. 3,055,655, 9–25–62, Cl. 269—321.
Chelton, Dudley B., to United States of America, Commerce. High-efficiency fluid transfer line coupling. 3,034,319, 5–15–62, Cl. 62—531.
Chelton (Hong Kong) Ltd.: *See*—
Charles, Geoffrey R. S., and Sanderson. 3,066,501.
Chelton (Poppits) Ltd.: *See*—
Charles, Geoffrey R. S. 3,030,663.
Chelwin Productions, Inc.: *See*—
Winchell, Paul. 3,042,086.
Winchell, Paul. 3,063,563.
Chemagro Corp.: *See*—
Flavin, James P., and Riden. 3,044,926.
Chematur, Aktiebolaget: *See*—
Samuelsen, Eirik. 3,034,867.
Chemerda, John M.: *See*—
Chamberlin, Earl M., and Chemerda. 3,016,377.
Cutler, Frank A., Jr., and Chemerda. 3,067,195.
Chemerda, John M., E. W. Tristram, and D. F. Hinkley, to Merck & Co., Inc. Improved steroid dehydrogenation process. 3,053,866, 9–11–62, Cl. 260—397.45.
Chemerda, John M., and R. F. Hirschmann, to Merck & Co., Inc. 2-keto-$\Delta^{3\ (5)}$ A-norcortisones. 3,068,243, 12–11–62, Cl. 260—340.9.
Chemetals Corp.: *See*—
Baer, Robert A., Slattery, and Tripp. 3,030,494.
Bevarly, Henry W. 3,019,110.
McGauley, Patrick J. 3,053,651.
Chemetron Corp.: *See*—
Alexander, Bruce T., and Mathes. 3,070,423.
Chouinard, Alfred F. 3,055,356.
Bernard, Arthur A. and R. A. 3,051,822.
Burka, William T. 3,036,663.
Eichelman, Francis J. 3,040,742.
Elseth, Theodore V. 3,046,438.
Francis, Norman L. 3,039,585.
Francis, Norman L., Thomson, and Musschoot. 3,045,886.
Harnik, Marcel. 3,051,732.
Matuschkovitz, Richard K., and Christensen. 3,055,753.
Pedigo, Chester L. 3,033,802.
Pattison, John N. 3,068,303.
Smith, James E., Berger, and Skinner. 3,036,664.
Williamson, Hilding V., and Horn. 3,052,304.
Chemical Construction Corp.: *See*—
Christensen, Axel. 3,041,152.
Christensen, Axel. 3,050,377.
Cook, Lucien H., and Colonias. 3,053,891.
Cook, Lucien H., and Stewart. 3,069,234.
Gross, James A. 3,057,700.
James, George R. 3,022,148.
Mandelik, Bernard G. 3,059,995.
Mavrovic, Ivo. 3,038,285.
Rosenbloom, William J. 3,031,262.
Stone, Arthur F. 3,057,605.
Syers, Roland. 3,022,136.
Syers, Roland. 3,022,155.
Warshaw, Abe. 3,031,496.
Warshaw, Abe. 3,037,847.
Chemical Development Corp.: *See*—
Creighton, Albert M., Jr. 3,018,260.
Chemical Products Corp.: *See*—
Rainer, William C., Bump, and Dudzik. 3,062,758.
Chemical Sales, Inc.: *See*—
Lipschutz, Sidney, and Barnett. 3,065,895.
Chemicals Inc.: *See*—
Floramo, Nicholas A. 3,022,221.
Chemiewerk Homburg Zweigniederlassung der Deutschen Gold- und Silber-Scheideanstalt vormals Roessler: *See*—
Kohlstaedt, Erwin, and Klingler. 3,046,275.
Chemiewerk Homburg, Zweigniederlassung der Deutschen Gold- und Silber-Scheideanstalt, vormals Roessler (Degussa): *See*—
Klingler, Karl H. 3,065,234.
Kohlstaedt, Erwin, and Klingler. 3,029,239.
Chemiglas, Gebr. Schrickel oHG: *See*—
Rochus, Walter, and Kickuth. 3,022,659.
Chemionics Engineering Laboratories, Inc.: *See*—
Preiser, Herman S., and Cook. 3,049,479.
Chemische Fabriek "Andrelon," N.V.: *See*—
De Jong, Hugo M., Aalbers, and Brenkman. 3,054,820.
De Jong, Hugo M., Brenkman, and Aalbers. 3,038,862.
Chemische Fabriek L. Van der Grinten N.V.: *See*—
Breuers, Theo P. C. 3,044,769.
Breuers, Theo P. C. 3,044,770.
Sanders, Theodorus P. W., and Roncken. 3,016,298.
Chemische Fabrik Duren G.m.b.H.: *See*—
Loebler, Peter, Helligrath, Elsner, and Huttenlocher. 3,060,061.
Chemische Fabrik Grumau Aktiengesellschaft: *See*—
Steppe, Vollrad, and Schulenburg. 3,017,348.
Chemische Fabrik Kalk G.m.b.H.: *See*—
Brandt, Fritz, Nees, and Liebrecht. 3,032,407.
Ossenbrink, Wilhelm. 3,063,648.
Chemische Werke Albert: *See*—
Boberg, Friedrich, and Schultze. 3,062,833.
Giller, Arnold. 3,056,754.
Greth, Arthur, and Zimmermann. 3,022,604.
Reese, Johannes, and Brüller. 3,023,209.
Zimmermann, Rolf. 3,028,362.
Chemische Werke Huls Aktiengesellschaft: *See*—
Frese, Albert, Broich, and Kränzlein. 3,043,825.
Stumpf, Walter. 3,056,844.
Chemische Werke Witten: *See*—
Pett, Willi. 3,065,061.
Junghaehnel, Rudolf. 3,037,884.
Chemische Werke Witten Gesellschaft mit beschrankter Haftung: *See*—
Katzschmann, Ewald. 3,068,280.
Chemithon Corp., The: *See*—
Brooks, Richard J. and B. 3,024,258.
Brooks, Richard J. and B. 3,058,920.
Brooks, Richard J. and B. 3,069,242.
Brooks, Richard J. and B. 3,069,243.
Chemolimpex Magyar Vegyiaru Kulkerekedelmi Vallalat: *See*—
Janko, Denes. 3,046,077.
Chempro, Inc.: *See*—
Patterson, John A. 3,053,626.
Chemring Ltd.: *See*—
Lowery, Peter A. 3,019,457.
Pook, Bernard T. T. 3,025,925.
Chemstrand Corp., The: *See*—
Black, William B. 3,033,810.
Bromley, James E., and Hills. 3,024,516.
Bromley, James E., and Hills. 3,024,517.
Campbell, Charles R., Chapman, and Johnson. 3,017,331.
Carlisle, Herbert. 3,031,732.
Chapman, Richard D., Campbell, and Johnson. 3,023,238.
De Witt, Hobson D. 3,025,270.
De Witt, Hobson D., and Beindorff. 3,023,184.
Follett, Archie E. 3,033,831.
Fitzgerald, Paul F. 3,022,565.
Hobson, Patrick H. 3,029,214.
Houk, Warren P. 3,028,720.
Huffman, William A. H. 3,025,266.
Huffman, William A. H. 3,033,824.
Chem-Therm Mfg. Co., Inc.: *See*—
Thompson, Max C. 3,048,866.
Chemtrol Corp.: *See*—
Eisemann, Alexander, Jr. 3,067,927.
Chen, Harold H., to Shell Oil Co. Foamed resin obtained by the reaction of a polyepoxide, a trialkyboroxine and an amine. 3,025,249, 3–13–62, Cl. 260—2.5.
Chen, James Y. P. Healing-enhancing preparations comprising Gardenia Florida seed extract and pharmaceutically acceptable carrier formulations. 3,067,103, 12–4–62, Cl. 167—65.

Chen, Richard J., to Polaroid Corp. Camera mechanism. 3,053,158, 9–11–62, Cl. 95—40.
Chen, Shao L., and E. J. Cooper. Production of active dry yeast. 3,041,249, 6–26–62, Cl. 195—74.
Chen, Ying H.: *See*—
Geschickter, Charles F., Pierce, Chen, and Reid. 3,015,657.
Geschickter, Charles F., Reid, Pierce, and Chen. 3,037,983.
Chenault, Louis W. Hydraulic well jar. 3,043,373, 7–10–62, Cl. 166—178.
Chenault, Roy L., to United States Steel Corp. Method of heating the interior of an enclosure. 3,042,557, 7–3–62, Cl. 148—144.
Cheney, C. W., & Son Ltd.: *See*—
Cheney, Charles W. B. 3,025,692.
Cheney, Charles W. B. 3,026,135.
Cheney, Charles W. B. 3,030,137.
Cheney, Charles W. B., deceased, by F. M. Tomkinson, H. W. Cheney, and G. M. Sherwood, executors, to C. W. Cheney & Son Ltd. Key-locked fastenings for travel bags, boxes and the like. 3,025,692, 3–20–62, Cl. 70—67.
Cheney, Charles W. B., deceased, by F. M. Tomkinson, H. W. Cheney, and G. M. Sherwood, executors, to C. W. Cheney & Son Ltd. Snap fasteners for handbags and similar portable articles. 3,026,135, 3–20–62, Cl. 292—304.
Cheney, Charles W. B., deceased, by F. M. Tomkinson, H. W. Cheney, and G. M. Sherwood, executors, to C. W. Cheney & Son Ltd. Spring-loaded hasp fastenings for boxes, travel bags and the like. 3,030,137, 4–17–62, Cl. 292—113.
Cheney, Donald E., to Reliable Electric Co. Insulation-crushing terminal assembly. 3,049,691, 8–14–62, Cl. 339—95.
Cheney, Harry A., and E. G. Foster, to Shell Oil Co. Polyolefin recovery process. 3,040,015, 6–19–62, Cl. 260—93.7.
Cheney, Howard W.: *See*—
Cheney, Charles W. B. 3,025,692.
Cheney, Charles W. B. 3,026,135.
Cheney, Charles W. B. 3,030,137.
Cheney, Lee C.: *See*—
Lein, Joseph, and Cheney. 3,024,168.
Perron, Yvon G., and Cheney. 3,035,047.
Cheney, Lee C. Synthetic penicillin and salts thereof. 3,035,046, 5–15–62, Cl. 260—239.1.
Cheney, Ralph G. Atomizer. 3,018,971, 1–30–62, Cl. 239—338.
Cheney, Ralph G. Atomizer. 3,069,097, 12–18–62, Cl. 239—338.
Cheney, Roland A. Magnetically secured windshield cover. 3,046,048, 7–24–62, Cl. 296—95.
Cheney, Wendell C., H. Morehouse, and M. G. Whitfield; said Cheney and said Morehouse assors. to Gould-National Batteries, Inc. Cylinder and piston structures. 3,021,183, 2–13–62, Cl. 309—6.
Cheng, Chao-Shing, and B. Taub, to Allied Chemical Corp. Production of oximes. 3,047,482, 7–31–62, Cl. 204—162.
Cheng, Francis M. Y.: *See*—
Perrozzi, Joseph R., Swanson, Walker, and Cheng. 3,038,803.
Cheng, Jen-Pu: *See*—
De Groote, Melvin, and Cheng. 3,049,492.
De Groote, Melvin, and Cheng. 3,065,247.
De Groote, Melvin, and Cheng. 3,066,159.
Cheng, Wing G. Electric lanterns or torches. 3,030,497, 4–17–62, Cl. 240—10.63.
Chenicek, Joseph A.: *See*—
Luvisi, John P., and Chenicek. 3 023,161.
Chenicek, Joseph A., to Universal Oil Products Co. Alkyl acid phosphate salt of N,N'-di-alkyl-p-phenylene diamine. 3,031,487, 4–24–62, Cl. 260—461.
Chenicek, Joseph A., to Universal Oil Products Co. Stabilization of hydrocarbons. 3,063,820, 11–13–62, Cl. 44—75.
Chenicek, Joseph A., and W. L. Cox, to Universal Oil Products Co. Method of incorporating a mixture of 2,6-dialkoxy-4-alkylphenol and 2,2'-alkylene-bis-(4,6-dialkylphenol) in rubber, and resulting product. 3,017,443, 1–16–62, Cl. 260—810.
Chenicek, Joseph A., and R. H. Rosenwald, to Universal Oil Products Co. Stabilization of hydrocarbons. 3,053,682, 9–11–62, Cl. 106—270.
Cherdron, Harald: *See*—
Kern, Werner, Schulz, and Cherdron. 3.036,978.
Chernishenko, Peter M. Devices for turning music pages. 3,064,518, 11–20–62, Cl. 84—487.
Chernivsky, Victor A. Baby chair. 3,017,220, 1–16–62, Cl. 297—390.
Cheroff, George, to International Business Machines Corp. Photovoltaic devices. 3,020,411, 2–6–62, Cl. 250—208.
Cheronnet, Jean, to Compteurs et Moteurs Aster. Electromagnetic device for relays and like apparatus. 3,026,389, 3–20–62, Cl. 200—103.
Cherreau, Andre G., A. R. M. Girard, and G. L. R. Maingault, to Societe Metallurgique d'Imphy. Rustless and refractory bimetallic strip for high temperatures. 3,045,335, 7–24–62, Cl. 29—195.5.
Cherrie, James M.: *See*—
Tauschek, Max J., Cherrie, and Beutell. 3,016,601.
Cherry-Burrell Corp.: *See*—
Arganbright, Jess G., and Walsh. 3,041,854.
Benjamin, John W. 3,066,549.
Bickel, Fay D., and Zaruba. 3,059,444.
Fechheimer, Paul R., and Harlan. 3,056,436.
Fitzmaurice, Dennis T., and Weinreich. 3,038,809.
Lund, Arthur F. 3,053,668.
Nellis, Charles N., Jr., Kegel, and Black. 3,041,046.
Walsh, John C., Haselton, Holland, and Juhl. 3,051,096.
Cherry Electrical Products Corp.: *See*—
Anderson, Fred N. 3,019,319.
Ball, Charles A., Jr. 3,032,623.
Ball, Charles A., Jr. 3,056,902.
Brevick, Arnold A. 3,050,599.
Cherry, Walter L., Jr., and Grady. 3,032,622.
Cherry, Lamona F.: *See*—
Weatherholt, Dallas D., Cherry, and Fulford. 3,019,795.
Cherry, Norman L., to United States of America, Atomic Energy Commission. Multiple thickness times density gamma gauge. 3,046,402, 7–24–62, Cl. 250—83.3.
Cherry, Walter L., Jr., and D. W. Grady, to Chery Electrical Products Corp. Snap-action on and off switch. 3,032,622, 5–1–62, Cl. 200—67.
Chertkof, Jack O. Proportioning, agitating and pouring device. 3,053,519, 9–11–62, Cl. 259—154.
Chertoff, Allen B., and I. M. Shivack, to Ultranetic Associates, Inc. Ignition systems. 3,039,021, 6–12–62, Cl. 315—206.
Chertow, Bernard: *See*—
Gourevitch, Alexander, Chertow, and Lein. 3,042,582.
Chervenak, John: *See*—
Bernstein, Bernard, and Chervenak. 3,070,774.
Chervenak, Raymond R.: *See*—
Lacy, George H., and Chervenak. 3,033,707.
Chervenka, George R.: *See*—
Douglass, John, Jr., and Chervenka. 3,046,072.
Chervenka, George R., to Shampaine Industries, Inc. Surgical operating tables. 3,065,344, 11–20–62, Cl. 250—58.
Chery, Walter V. Automobile starting device. 3,046,964, 7–31–62, Cl. 123—179.
Chery, Walter V. Transmission. 3,048,058, 8–7–62, Cl. 74—798.
Chesapeake Instrument Corp.: *See*—
Fitzgerald, James W., Winder, and Ringo. 3,040,562.
Chesebrough-Pond's Inc.: *See*—
Hambley, Clarke C. 3,039,132.
Jeynes, Paul H., Jr. 3,024,947.
Cheshire, Inc.: *See*—
Doane, James E., and Ridenour. 3,039,517.
Cheshire, John R., to E. I. du Pont de Nemours and Co. Treatment of polymeric shaped structures. 3,063,882, 11–13–62, Cl. 154—43.
Cheske, William J., to Advance Transformer Co. Fluorescent ballast closure means and method of applying same. 3,015,682, 1–2–62, Cl. 174—52.
Cheskin, David B. Lifting apparatus. 3,028,143, 4–3–62, Cl. 254—105.
Cheskin, David B. Lifting apparatus. 3,028,144, 4–3–62, Cl. 254—109.
Cheslow, Ernest. Set of tables. 3,053,598, 9–11–62, Cl. 311.
Chesluk, Ralph P., and R. B. Tierney, to Texaco Inc. Synthetic lubricating composition. 3,069,357, 12–18–62, Cl. 252—46.4.
Chesnut, James A., to Johnson & Johnson. Silicone rubber tape roll. 3,015,385, 1–2–62, Cl. 206—59.
Chesnut, John D., to Aerojet-General Corp. Well perforating method and means therefor. 3,031,964, 5–1–62, Cl. 102—21.
Chesser, Cecil E., to Sears, Roebuck and Co. Sheet metal connection and method for effecting the same. 3,050,160, 8–21–62, Cl. 189—36.
Chesser, Cecil E., to Sears, Roebuck and Co. Tool for assembling plates in flatwise engagement and method of assembling plates. 3,062,261, 11–6–62, Cl. 153—2.
Chessid, Sigmund: *See*—
Hershler, Max A. 3,054,045.
Chestek, James H., to General Electric Co. Vapor combustion system. 3,018,626, 1–30–62, Cl. 60—39.71.
Chester Corp.: *See*—
De Pew, Chester C. 3,035,734.
Chester, Charles R., to Metalcraft Products Co., Inc. Fluorescent lighting fixture construction. 3,058,611, 10–16–62, Cl. 220—3.5.
Chester, Joseph T.: *See*—
Kummerer, Richard A., Besten, and Chester. 3,054,301.
Chester, Martin H. Motor driven surgical knife. 3,020,912, 2–13–62, Cl. 128—310.
Chester, Martin H. Circumcision clamp. 3,040,746, 6–26–62, Cl. 128—321.
Chester, Milton A., to Martin-Marietta Corp. Device for changing airfoil profile. 3,047,257, 7–31–62, Cl. 244—85.
Chester, Peter F.: *See*—
Bolef, Dan I., and Chester. 3,023,367.
Chester, Peter F., and D. I. Bolef, to Westinghouse Electric Corp. Maser. 3,023,366, 2–27–62, Cl. 330—4.
Chesterton, A. W., Co.: *See*—
Van Vleet, Frank R. 3,068,012.
Chestnut, Frank E. Weed shredder. 3,047,995, 8–7–62, Cl. 56—25.4.

Cheston, Theodore C., to United States of America, Navy. Five aperture direction finding antenna. 3,045,238, 7–17–62, Cl. 343—776.
Chetakian, Edward. Method of continuously forming a reinforced plastic sheet material and apparatus therefor. 3,025,207, 3–13–62, Cl. 156—246.
Chetakian, Edward, to Diamond Alkali Co. Method of preparing polyester molding compositions and resultant product. 3,027,338, 3–27–62, Cl. 260—17.4.
Cheuvront, Byron T.: *See*—
Polan, Lincoln M., Cheuvront, Ingalls, Strom, and Muir. 3,025,750.
Chevalier, Edmund M. Tank holder. 3,030,062, 4–17–62, Cl. 248—361.
Chevalier, Pierre J., to Societe des Usines Chimiques Rhone-Poulenc. Polysiloxane coating composition containing siliceous ester and article coated therewith. 3,028,347, 4–3–62, Cl. 260—18.
Chevalier, Roger E., to Nord-Aviation Societe Nationale de Constructions Aeronautiques. Roll control surfaces. 3,064,930, 11–20–62, Cl. 244—77.
Chevigny, Raymond A., and H. Richaud, to Pechiney Compagnie de Produits Chimiques et Electrometallurgiques. Anode for cathodic protection. 3,033,775, 5–8–62, Cl. 204—196.
Cheviron, Wayne F. Electric defroster. 3,026,401, 3–20–62, Cl. 219—39.
Chevreux, Gerard: *See*—
Furia, Andre, and Chevreux. 3,064,426.
Chevreux, Gerard, to The Bendix Corp. Hydraulic lift systems. 3,053,234, 9–11–62, Cl. 121—41.
Chew, Charles C.: *See*—
Waters, Lawrence E., and Chew. 3,061,928.
Chew, Clarence, Sr., to Owens-Illinois Glass Co. Controlling operation of a glass furnace. 3,053,012, 9–11–62, Cl. 49—55.
Chewey, Paul M.: *See*—
Brewer, Thomas L., Hall, and Chewey. 3,015,936.
Cheyette, David A.: *See*—
Becker, George D., and Cheyette. 3,030,034.
Chiabotti, Cesare, to Applicazione Lavorazione Di Basi Oleochemiche S.p.A. Foundry machine. 3,030,675, 4–24–62, Cl. 22—36.
Chiado, Paul S., and J. A. Sbarounis. Apparatus for making hyperbolic-paraboloidal thin shell building units. 3,049,785, 8–21–62, Cl. 25—118.
Chial Mfg. & Sales Co.: *See*—
Chial, Stanley M. 3,016,585.
Chial, Stanley M., to P. A. Turner, d.b.a. Chial Mfg. & Sales Co. Awning structure. 3,016,585, 1–16–62, Cl. 20—57.5.
Chiaminese, S., Eitheim (Glus). Dual compartment box. 3,039,671, 6–19–62, Cl. 229—27.
Chiang, Franklin C., to International Business Machines Corp. Decoding device utilizing a delay line. 3,017,096, 1–16–62, Cl. 235—160.
Chiang, Franklin C., to International Business Machines Corp. Serial delay line adder. 3,070,305, 12–25–62 Cl. 235—176.
Chiang, Robert, to Hercules Powder Co. Process for polymerizing vinyl ethers. 3,025,281, 3–13–62, Cl. 260—91.1.
Chiantelassa, Attilio. Apparatus for determining composition and price of a dispensed mixture. 3,022,919, 2–27–62, Cl. 222—26.
Chiasson, Wilbert A., to Weltronic Co. Phase-shifting and control apparatus. 3,045,172, 7–17–62, Cl. 323—37.
Chiavetta, Frank P.: *See*—
Mankowich, Ivan, Chiavetta, and Chartier. 3,042,634.
Chibata, Ichiro, M. Kisumi, and Y. Ashikaga, to Tanabe Seiyaku Co., Ltd. Process for producing α-isoleucine. 3,058,888, 10–16–62, Cl. 195—29.
Chicago Aerial Industries, Inc.: *See*—
Bousky, Samuel. 3,047,870.
Bousky, Samuel, and Miles. 3,028,793.
Elliott, Eugene W. 3,041,281.
Elliott, Eugene W., and Bury. 3,049,981.
Kapany, Narinder S., Pontarelli, and Joseph. 3,045,223.
Sonne, Frederick T. 3,016,001.
Willits, Samuel P. 3,041,501.
Willits, Samuel P., and Mohan. 3,023,317.
Chicago Backing Co.: *See*—
La Voie, William E. 3,021,250.
Chicago Bridge & Iron Co.: *See*—
Arne, Christian. 3,064,344.
Bertossa, Donald C. 3,055,096.
Chirico, Anthony N. 3,065,085.
Horton, John T., and La Fave. 3,025,993.
Mair, James. 3,022,985.
Moyer, Frederick D., and Orr. 3,057,507.
Pircok, John N., and Trammell. 3,019,806.
Reese, Richard, and Wissmiller. 3,055,533.
Sadtler, Philip B., and Hunter. 3,021,265.
Wissmiller, Ivan L. 3,059,804.
Chicago Development Corp.: *See*—
Dean, Reginald S. 3,029,193.
Chicago Dynamic Industries, Inc.: *See*—
Koci, Jerry C. 3,043,593.
Koci, Jerry C. 3,053,536.
Chicago Eye Shield Co.: *See*—
Malcom, Robert, Jr. 3,047,876.
Malcom, Robert, Jr. 3,050,736.
Chicago Fire Brick Co.: *See*—
Deming, George A. 3,030,737.
Chicago Forging and Mfg. Co.: *See*—
Korab, George, and Krause. 3,026,132.
Krause, Herbert. 3,026,131.
Krause, Herbert. 3,059,328.
Chicago Machinery Laboratory, Inc.: *See*—
McCain, William B. 3,057,620.
Chicago Magnet Wire Corp.: *See*—
Zerwes, Paul J. 3,024,762.
Chicago Metallic Mfg. Co.: *See*—
Debs, Jerome H. 3,032,233.
Debs, Jerome H. 3,037,677.
Chicago Mill and Lumber Co.: *See*—
Whiton, Arthur L. 3,045,889.
Chicago Pneumatic Tool Co.: *See*—
Amtsberg, Lester A. 3,034,623.
Cox, Clarence E., and Nash. 3,059,832.
D'Haem, Marcel P., and Fischer. 3,041,614.
Fischer, Howard R., and Kearney. 3,042,004.
Moracco, Joseph J., and Busa. 3,020,012.
Nash, Richard L., and Cox. 3,059,836.
O'Farrell, Matthew. 3,038,446.
O'Farrell, Matthew. 3,038,447.
Samhammer, Donald F., and Hepola. 3,061,023.
Samhammer, Donald F., and Lear. 3,021,999.
Chicago Printed String Co.: *See*—
Paar, Thomas J. J. 3,041,765.
Chicago Rawhide Mfg. Co.: *See*—
Adamson, Elmer A. 3,028,156.
Blair, Richard W., Johnson, and Morley. 3,053,593.
Fowler, William J. 3,030,702.
Hudson, Raymond A., and Van Veen. 3,038,733.
Jutzi, Donald J. 3,063,097.
Snyder, Russel D. 3,061,319.
Chicago Rock Island and Pacific Railroad Co.: *See*—
Mangels, Erwin G. 3,028,001.
Chicago Roller Skate Co., The: *See*—
Ware, Gordon K. 3,016,246.
Chicago Specialty Mfg. Co.: *See*—
Bachli, Herman, and Shapiro. 3,059,242.
Chick, James E., and R. Symington, to Simon-Carves Ltd. Coal or ore washing. 3,048,273, 8–7–62, Cl. 209—172.5.
Chick, Melvin E., ½ to B. McClintock. Sheet clamping device. 3,041,795, 7–3–62, Cl. 51—194.
Chick, Russell W., J. Christofferson, and G. F. Vigneau, to Columbia Broadcasting System, Inc. Crystal diode assembly machine and method therefor. 3,047,933, 8–7–62, Cl. 29—25.3.
Chicksan Co.: *See*—
Knight, Houston W. 3,017,124.
Chickvary, William S., to Burndy Corp. Electrical connector. 3,065,292, 11–20–62, Cl. 174—84.
Chicopee Mfg. Corp.: *See*—
Gobbo, Edward, Sr., Lincoln, and Sepkoski. 3,065,751.
Griswold, Hector W. 3,025,585.
Harmon, Carlyle. 3,018,521.
Harmon, Carlyle. 3,059,313.
Harmon, Carlyle, Barnes, and Johnson. 3,043,733.
Harmon, Carlyle, and Kalwaites. 3,042,576.
Kalwaites, Frank. 3,033,721.
Kalwaites, Frank. 3,066,359.
L'Hommedieu, Paige D. 3,068,547.
Murphy, James J. 3,058,989.
Musser, David M. 3,058,377.
Musser, David M. 3,059,013.
Musser, David M. 3,067,159.
Musser, David M., and Vellekamp. 3,048,500.
Musser, David M., and Vellekamp. 3,057,674.
Nicholl, Jonathan P. 3,061,907.
Schiess, Hans H. 3,066,358.
Chiddix, Max E., and C. R. Enyeart, to General Aniline & Film Corp. Phosphate esters of branched chain alcohols. 3,033,889, 5–8–62, Cl. 260—461.
Chidgey, Ronald W., Jr., and C. M. Irwin, to Monsanto Chemical Co. Traversing device. 3,039,708, 6–19–62, Cl. 242—26.3.
Chidgey, Ronald W., Jr., and C. M. Irwin, to Monsanto Chemical Co. Apparatus for winding yarn. 3,061,215, 10–30–62, Cl. 242—26.3.
Chidgey, Ronald W., Jr., and C. M. Irwin. Traversing device. 3,067,961, 12–11–62, Cl. 242—26.3.
Chidsey, Francis A., Jr., to Container Corp. of America. Bottle carrier. 3,016,182, 1–9–62, Cl. 229—40.
Chidsey, Francis A., Jr., to Container Corp. of America. Display carton. 3,040,877, 6–26–62, Cl. 206—45.31.
Chidsey, Francis A., Jr., and G. C. Currie, Jr., to Container Corp. of America. Packaging machine. 3,037,334, 6–5–62, Cl. 53—48.
Chidsey, Francis A. Jr., and W. C. Hasselo, to Container Corporation of America. Can carton with reinforced corners. 3,049,282, 8–14–62, Cl. 229—40.
Chidsey, Francis A., Jr., and G. C. Currie, Jr., to Container Corp. of America. Bottle packaging machine. 3,064,404, 11–20–62, Cl. 53—48.
Chieger, George, to Fruehauf Trailer Co. Trailer clearance and marker light. 3,032,646, 5–1–62, Cl. 240—8.2.
Chien, Kun L., E. I. Ergin, and C. Ling, to Beckman Instruments, Inc. Boiler controller. 3,042,007, 7–3–62, Cl. 122—448.
Chiesa, Peter P.: *See*—
Dann, John R., Chiesa, and Lovett. 3,038,805.
Lovett, William G., Chiesa, and Dann. 3,057,724.
Schwan, Judith A., and Chiesa. 3,068,097.

Chiesa, Peter P., J. R. Daun, and J. W. Gates, Jr., to Eastman Kodak Co. Photographic emulsions sensitized with sulfite ester polymers. 3,068,102, 12–11–62, Cl. 96—107.
Chiksan Co.: *See*—
Beatty, Guy M. 3,035,613.
Hamer, Leland S. 3,031,200.
Hamer, Leland S. 3,035,811.
Chilcoat, Murray A., to Futurecraft Corp. Valve. 3,017,894, 1–23–62, Cl. 137—69.
Child, Marian E., to Sarong, Inc. Brassiere. 3,056,411, 10–2–62, Cl. 128—489.
Chiid, Wright. Water-skiing tow rope reeling device. 3,029,041, 4–10–62, Cl. 242—86.5.
Childers, Claude E. Land leveller. 3,052,998, 9–11–62, Cl. 37—150.
Childers, Earl W. Intermittent misting control apparatus. 3,045,699, 7–24–62, Cl. 137—624.14.
Childers, Eugene, and N. E. West, to E. I. du Pont de Nemours and Co. Process for extracting cyanides. 3,056,648, 10–2–62, Cl. 23—77.
Childers, Spencer L., and L. C. Tober, to The Vendo Co. Favored flavor capacity reserving mechanism. 3,043,475, 7–10–62, Cl. 221—125.
Childress, Glen E. Return flow vertical lift airplane. 3,029,044, 4–10–62, Cl. 244—12.
Childress, James D.: *See*—
Lessoff, Howard, Laird, and Childress. 3,043,777.
Smith, Lloyd B., and Childress. 3,017,615.
Childress, Scott J.: *See*—
Russell, Peter B., and Childress. 3,048,633.
Childress, Scott J., and A. A. Mascitti, to American Home Products Corp. Dialkoxynaphthyl penicillins. 3,053,831, 9–11–62, Cl. 260—239.1.
Chilley, Henry M., Jr., and E. Doty, to Hairstrate, Inc. Hair straightening preparation. 3,017,328, 1–16–62, Cl. 167—87.1.
Childs, David E.: *See*—
Mageoch, Harry Y., and Childs. 3,060,283.
Childs James H., and W. R. Mickelsen, to United States of America, National Aeronautics and Space Administration. High-vacuum condenser tank for ion rocket tests. 3,063,291. 11–13–62, Cl. 73—116.
Childs, William L., to The Dow Chemical Co. Removal of iron from aqueous concentrated alkali metal hydroxide solutions. 3,043,661, 7–10–62, Cl. 23—184.
Chilean Nitrate Sales Corp.: *See*—
Campbell, Ivor E., and Kesler. 3,062,615.
Kesler, George H. 3,049,440.
Chill, Charles W., to The Udylite Corp. Auxiliary work transfer mechanism for plating machines. 3,024,794, 3–13–62, Cl. 11—77.
Chillson, Charles W., to Curtiss-Wright Corp. Self-feeding rocket motor. 3,036,428, 5–29–62, Cl. 60—35.6.
Chillson, Charles W., to Curtiss-Wright Corp. Automotive final drive. 3,040,855, 6–26–62, Cl. 192—50.
Chillson, Charles W., to Curtiss-Wright Corp. Shaft seal. 3,044,786, 7–17–62, Cl. 277—70.
Chillson, Charles W., to Curtiss-Wright Corp. Multi-power plant synchronizing system. 3,048,743, 8–7–62, Cl. 317—6.
Chilman, John A.: *See*—
Elmes, Robert T., and Chilman. 3,040,817.
Chilman, John A., to Rotol Ltd. Control systems for aircraft propellers. 3,017,932, 1–23–62, Cl. 170—135.29.
Chilman, John A., and I. H. Brooking, to Rotol Ltd. Hydraulic variable pitch propellers. 3,024,848, 3–13–62, Cl. 170—160.32.
Chilman, John A., and R. A. Cotton, to Dowty Rotol Ltd. Control conduit valve and operator for hydraulic variable pitch propellers. 3,067,825, 12–11–62, Cl. 170—160.2.
Chilton, Edward A.: *See*—
Zito, George V., and Chilton. 3,044,012.
Chilton, Edward A., to The Bendix Corp. Variably damped servo-control system. 3,028,534, 4–3–62, Cl. 318—448.
Chilton, John M., to W. & T. Avery Ltd. Self balancing potentiometer system for use in association with weighing apparatus. 3,030,569, 4–17–62, Cl. 323—75.
Chilton, John M., to W. & T. Avery Ltd. Self-balancing potentiometer systems for use in association with weighing apparatus. 3,064,182, 11–13–62, Cl. 323—75.
Chimera, Vincent J.: *See*—
Bushnell, Robert H., and Chimera. 3,019,434.
Chimie et Atomistique: *See*—
Liberman, David. 3,042,673.
Redel, Joseph. 3,048,590.
Chin, David D., and L. P. Grisell, to Eitel-McCullough, Inc. Electron tube socket. 3,042,893, 7–3–62, Cl. 339—112.
Chin, David D., R. F. Lazzarini, and A. A. Goldfinger, to Eitel-McCullough, Inc. Radio frequency load. 3,044,027, 7–10–62, Cl. 333—22.
Chin, John S. Toilet flushing device. 3,056,142, 10–2–62, Cl. 4—64.
Chin, Terrance. Liquid fuel pump metering and dispensing device. 3,037,667, 6–5–62, Cl. 222—20.
Chinn, Hyman G., to Union Carbide Corp. Thermoplastic bonding and coating. 3,018,212, 1–23–62, Cl. 156—195.
Chinn, Hyman C., to Union Carbide Corp. Thermoplastic seam. 3,067,079, 12–4–62, Cl. 154—43.
Chinn, Hyman G. to Union Carbide Corp. Flexible heat-sealing unit. 3,067,309, 12–4–62, Cl. 219—19.
Chinn, Hyman G., and H. M. Shappell, to Union Carbide Corp. Intermittent resin melt application. 3,052,565, 9–4–62, Cl. 117—37.
Chinn, John W. Manual scraping tool. 3,069,714, 12–25–62, Cl. 15—236.
Chinn, Leland J., to G. D. Searle & Co. 5-hydroxy-2-oxyphenylcyclopentanealkanols and intermediates. 3,019,233, 1–30–62, Cl. 260—343.3.
Chinn, Leland J., to G. D. Searle & Co. 3-(ethynyl/vinyl-3-hydroxy-3-methyl-7-oxopolyhydrobenz [e]indanes and esters thereof. 3,041,372, 6–26–62, Cl. 260—488.
Chinn, Leland J., to G. D. Searle & Co. 7-aminoalkoxy-3-ethyl-2,3-dihydro-2,2-dimethyl-1H-benz[e]inden-1-ones and intermediates. 3,067,207, 12–4–62, Cl. 260—326.5.
Chinnick, Walter I. Holding tongs. 3,066,930, 12–4–62. Cl. 269—71.
Chinnock, Edwin L.: *See*—
Beck, Alfred C. and Chinnock. 3,039,707.
Chiodine, Samuel F., to Lawson Products, Inc. Knitted fabrics and in methods of producing such fabrics. 3,035,427, 5–22–62, Cl. 66—200.
Chionda, Andre. Automatic garage building. 3,043,451, 7–10–62, Cl. 214—16.1.
Chiou, Charles: *See*—
Caswell, Hollis L., and Chiou. 3,058,852.
Chipalkatti, Hanmanta R.: *See*—
Chipalkatti, Vasant B. and H. R., and Sharma. 3,066,998.
Chipalkatti, Vasant B.: *See*—
Masarguppi, Jayant A., and Chipalkatti. 3,036,932.
Chipalkatti, Vasant B., and K. Manivannan, to Shri Ram Institute For Industrial Research. Guide roller mounting and fluid injection system for fluidized beds for textile treatment. 3,032,889, 5–8–62, Cl. 34—57.
Chipalkatti, Vasant B., and K. Manivannan, to Shri Ram Institute for Industrial Research. Method of application of fluids to textile materials. 3,042,480, 7–3–62, Cl. 8—151.
Chipalkatti, Vasant B. and H. R., and S. P. N. Sharma, to Shri Ram Institute For Industrial Research, Civil Lines. Wet processing of textiles and like materials. 3,066,998, 12–4–62, Cl. 8—151.
Chipman, Arthur D., to The General Tire & Rubber Co. Water-activated prepasted plastic sheeting. 3,034,944, 5–15–62, Cl. 154—53.5.
Chipman, Arthur D., and M. Seymour, to The General Tire & Rubber Co. Adhesion of polyvinyl chloride. 3,032,460. 5–1–62, Cl. 154—45.9.
Chipman, Arthur D., and J. M. Shaheen, to The General Tire & Rubber Co. Heat resistant laminated counter top. 3,051,-593, 8–28–62, Cl. 154—43.
Chipperfield, Victor J., to Ultra Electronics Ltd. Floating means. 3,061,249, 10–30–62, Cl. 244—138.
Chirana Praha, narodni podnik: *See*—
Sazavsky, Jaromir. 3,069,543.
Chirgwin, Keith M., and L. J. Stratton, to The Siegler Corp. High frequency power supply. 3,054,840. 9–18–62, Cl. 321—69.
Chirgwin, Keith M., and L. J. Stratton, to Lear Siegler, Inc. Constant frequency generator. 3,070,740, 12–25–62, Cl. 322—32.
Chirhart, Virgil R. Toy flying bird. 3,038,274, 6–12–62, Cl. 46—107.
Chiriaco, Gregory L.: *See*—
Jones, Harold S., Chiriaco, and Shopalovich. 3,061,248.
Chirico, Anthony N., to Chicago Bridge & Iron Co. Juice concentration system. 3,065,085, 11–20–62, Cl. 99—205.
Chiron, Bernard P., to Lignes Telegraphiques & Telephoniques. Circulator. 3,020,494, 2–6–62, Cl. 333—9.
Chisholm, Douglas S.: *See*—
Bylsma, Harold R., and Chisholm. 3,031,807.
Chisholm, Douglas S., to The Dow Chemical Co. Continuous production of titanium sponge. 3,067,025, 12–4–62, Cl. 75—84.5.
Chisholm, Douglas S., and D. F. Hall, to The Dow Chemical Co. Production of group IV. subgroup A, metal prills. 3,021,562, 2–20–62, Cl. 18—47.2.
Chisholm, Douglas S., and D. F. Hall, to The Dow Chemical Co. Composite metal article and method of making same. 3,056,190, 10–2–62, Cl. 29—182.5.
Chisholm, Douglas S., D. D. Freeman, R. E. Holzinger, and H. H. Price, to The Dow Chemical Co. Method for making extruded polyethylene foams which contain a styrene polymer. 3,065,190, 11–20–62, Cl. 260—2.5.
Chisholm, Hamilton C., and H. Y. Fujishige, to Beckman Instruments, Inc. Reversible decimal counter. 3,054,001, 9–11–62, Cl. 307—88.5.
Chisholm, Kenneth D. F., to The English Electric Co. Ltd. Electrical pulse delay and regenerator circuits. 3,026,427, 3–20–62. Cl. 307—88.5.
Chisholm-Ryder Co., Inc.: *See*—
Burton, Charles G. 3,059,648.
Carruthers, Eben H. 3,024,907.
Chitayat, Anwar K., to Kollsman Instrument Corp. Light modulation system. 3,024,699. 3–13–62, Cl. 88—61.
Chittenden, George E., to The Keelavite Co. Ltd. Hydraulic drive for winding machines. 3,043,535, 7–10–62. Cl. 242—75.53.
Chittenden, Windsor N., and G. A. Sima, ½ to H. Cramer, and ½ to F. B. Sima, by assignment and decree of distribution. Self-releasing collet. 3,037,782. 6–5–62, Cl. 279—59.

Chittum, Joseph F., to California Research Corp. Method of inhibiting corrosion in steam generating systems. 3,029,126, 4–10–62, Cl. 21—2.7.
Chittum, Joseph F., E. J. Owens, and J. B. Armstrong, to California Research Corp. Method of purifying gas utilizing potassium carbonate solutions of improved contacting efficiency. 3,041,135, 6–26–62, Cl. 23—3.
Chiuchiolo, Frank A. Plug-in wall receptacles. 3,038,141, 6–5–62, Cl. 339—164.
Chiusoli, Gian P., and F. Minisci, to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Process for the preparation of aminoacids from organic peroxides and nitrogen oxide. 3,024,276, 3–6–62, Cl. 260—534.
Chiusoli, Giampaolo, F. Minisci, and A. Quilico, to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Method of preparing dibasic acids from cyclohexanone and acrylonitrile and products obtained. 3,062,851, 11–6–62, Cl. 260—404.
Chiusoli, Gian P., to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Process for preparing itaconic acid, and 2,3-butadienoic acid. 3,025,320, 3–13–62, Cl. 260—526.
Chiusoli, Gian F., and S. Merzoni, to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Process for obtaining alpha-beta, delta-epsilon unsaturated esters. 3,032,583, 5–1–62, Cl. 260—486.
Chiyoda Kogaku Seiko Kabushiki Kaisha: *See*—
Kobayashi, Tatsuo. 3,051,065.
Ohashi, Saichiro. 3,040,639.
Chlorator G.m.b.H.: *See*—
Arenhold, Karl-Heinz. 3,030,974.
Arenhold, Karl-Heinz. 3,042,059.
Axt, Gunter P. R. 3,068,684.
Chlouba, Adolf: *See*—
Styner, Fritz, and Chlouba. 3,017,079.
Chmielewski, Jerry H. Clothes pole. 3,043,438. 7–10–62, Cl. 211—105.6.
Choate, Arthur E., and C. J. Sullivan. Helix tester. 3,066,421, 12–4–62, Cl. 33—199.
Chochola, Jaromir. Method of conveying foamed slag and similar material in a semi-plastic state. 3,022,113, 2–20–62, Cl. 302—20.
Chocholaty, Frantisek. Game of skill or the like. 3,049,351, 8–14–62, Cl. 273—86.
Chodacki, Joseph, and R. Zdrojkowski. Toilet ventilation system. 3,020,564, 2–13–62, Cl. 4—213.
Chognard, Jean C.: *See*—
Murphy, Cornelius L. 3,047,985.
Choice, Frank C., to United Shoe Machinery Corp. Molding machines for pressing and vulcanizing plastic materials. 3,048,893, 8–14–62, Cl. 18—17.
Choitz, Arthur H. Water curtain forming spray nozzle. 3,033,470, 5–8–62, Cl. 239—267.
Cholet, Bertram. Drafting pen and ink cartridge therefor. 3,035,742, 5–22–62, Cl. 222—213.
Cholet, Bertram. Electric razor having rotatable cutter of triangular shape. 3,045,344, 7–24–62, Cl. 30—43.
Chomitz, Nicholas: *See*—
Innes, William B., Michael, and Chomitz. 3,023,172.
Chopa, Jerome H.: *See*—
Wittenberg, Edward H., and Chopa. 3,018,970.
Chope, Henry R., to Industrial Nucleonics Corp. Automatic process control. 3,039,687, 6–19–62, Cl. 235—151.
Chope, Wilbert E., to Industrial Nucleonics Corp. Moisture balance correction system. 3,040,807, 6–26–62, Cl. 162—252.
Chore-Time Equipment, Inc.: *See*—
Hostetler, Eldon, and Myers. 3,033,163.
Chori Co. Ltd.: *See*—
Chashi, Hideichiro, Kawasaki, Koshiba, and Tsuji. 3,046,633.
Chorjel, Charles E.: *See*—
De Kay, Robert, and Chorjel. 3,068,339.
Chojnowski, Edward J.: *See*—
Adams, Myron D., Johnson, Chojnowski, Eisner, Elich, and Glick. 3,057,956.
Chorley, Richard A.: *See*—
Majendie, Alastair M. A., Chorley, and Lowe. 3,057,322.
Chosy, Eugene, to Fruehauf Trailer Co. Combination wheel bogie and dolly. 3,066,953, 12–4–62, Cl. 280—418.
Chou, Wayne W., to International Business Machines Corp. Transistor amplifier circuits for square waves, with level setting and noise elimination. 3,064,141, 11–13–62, Cl. 307—88.5.
Choudhury, Shafi-Uddin A.: *See*—
Whiteroft, John, and Choudhury. 3,031,605.
Chouinard, Alfred F., to Chemetron Corp. Heart signal generating apparatus. 3,055,356, 9–25–62, Cl. 128—2.05.
Chow, Alfred W.: *See*—
Ziffer, Jack, Bennett, Cairney, and Chow. 3,032,471.
Ziffer, Jack, Chow, Cairney, and Bennett. 3,032,470.
Chow, Alfred W., and J. R. E. Hoover, to Smith Kline & French Laboratories. Phenylcyclopropylcarboxyamido derivatives of penicillanic acid. 3,041,332, 6–26–62, Cl. 260—239.1.
Chow, Alfred W., and J. Weinstock, to Smith Kline & French Laboratories. Substituted cyclopropylcarboxyamido derivatives of penicillanic acid. 3,041,333, 6–26–62, Cl. 260—239.1.
Chow, Ho: *See*—
Rinkewich, Isaac, and Chow. 3,017,123.
Chow, Ho., and W. Blasnik, to International Patent Research Corp. Adjustable nozzle. 3,042,318, 7–3–62, Cl. 239—458.
Chow, Sui-Wu, and J. M. Whelan, Jr., to Union Carbide Corp. Method for producing polyimides from diamines and di-acid di-ester derivatives of dianhydrides. 3,037,966, 6–5–62, Cl. 260—78.
Chow, Wen T., and W. H. Henrich, to American Bosch Arma Corp. Storage matrix. 3,028,659, 4–10–62, Cl. 29—155.5.
Chow, Woo F., to General Electric Co. Crystal controlled high frequency transistor oscillator. 3,025,476, 3–13–62, Cl. 331—116.
Chrest, Roy A.: *See*—
Roseman, Reuben, Rummery, Richards, and Chrest. 3,037,876.
Chris Turner & Scott Pty. Ltd.: *See*—
Scott, Edwin C. 3,060,528.
Chrisman, Charles M. Projection advertising. 3,020,798, 2–13–62, Cl. 88—24.
Christ, Cornelius M. W. A.: *See*—
Werther, Matheus H., and Christ. 3,052,209.
Christa, Leonard L., to American Can Co. Press feeding method and apparatus. 3,034,783, 5–15–62, Cl. 271—14.
Christen, Eugene W., to General Motors Corp. Windshield cleaning system and wiper blades therefor. 3,058,141, 10–16–62, Cl. 15—250.2.
Christensen, Alfred C., Jr.: *See*—
Christensen, Alfred C., Sr. and A. C. Christensen, Jr. 3,045,298.
Christensen, Alfred C., Sr. and A. C. Christensen, Jr. Method and apparatus for shell molding. 3,045,298, 7–24–62, Cl. 22—36.
Christensen, Andrew B. Draw closure. 3,068,937, 12–18–62, Cl. 160—41.
Christensen, Arnold P.: *See*—
Baker, Corwin W., Brumby, Christensen, and Sillars. 3,030,038.
Christensen, Axel. Apparatus for exothermic catalytic reactions. 3,041,151, 6–26–62, Cl. 23—289.
Christensen, Axel, to Chemical Construction Corp. Apparatus for high temperature and pressure chemical reactions. 3,041,152, 6–26–62, Cl. 23—290.
Christensen, Axel, to Chemical Construction Corp. Converter. 3,050,377, 8–21–62, Cl. 23—289.
Christensen, Bent: *See*—
Hiefner, Frank J., Jr., and Christensen. 3,023,357.
Christensen, Bruce V.: *See*—
McAdams, Paul F., and Christensen. 3,023,024.
McAdams, Paul F., Ellis, and Christensen. 3,063,177.
Christensen, Byron C., ½ to M. J. Clearman. Cable lock. 3,017,678, 1–23–62, Cl. 24—134.
Christensen Diamond Products Co.: *See*—
Christensen, Frank L. 3,049,843.
Cutler, Charles R. 3,044,219.
Christensen, Donald C. Bar-type door opener. 3,025,095, 3–13–62, Cl. 292—336.3.
Christensen, Ferdinand. Pipe crimping device. 3,062,265, 11–6–62, Cl. 153—32.
Christensen, Frank L., to Christensen Diamond Products Co. Abrasive cutting devices. 3,049,843, 8–21–62, Cl. 51—206.
Christensen, Henning J.: *See*—
Matuschkovitz, Richard K., and Christensen. 3,055,753.
Christensen, Howard, to Bell Telephone Laboratories, Inc. Radiant-energy translation system. 3,035,175, 5–15–62, Cl. 250—83.3.
Christensen, John A.: *See*—
Walker, Harry H., and Christensen. 3,057,758.
Christensen, John W.: *See*—
Bambara, Joseph E., and Christensen. 3,042,825.
Christensen, Joseph M. Projection device. 3,056,334, 10–2–62, Cl. 88—28.
Christensen Tool and Engineering Co.: *See*—
Swindell, George O. 3,039,273.
Christensen, Warren C., and J. E. Basso, to The Buehler Corp. Multiple deflector control. 3,040,527, 6–26–62, Cl. 60—35.55.
Christenson, Charles H., to Lockheed Aircraft Corp. Aircraft yaw control. 3,015,460, 1–2–62, Cl. 244—79.
Christenson, Donald J.: *See*—
Hansen, Charles W., Wiltsey, and Christenson. 3,024,951.
Christenson, George B., and L. B. Dale, to Richardson-Merrell Inc. Sustained release tablets. 3,065,143, 11–20–62, Cl. 167—82.
Christenson, Howard W., to General Motors Corp. Transmission. 3,025,717, 3–20–62, Cl. 74—645.
Christenson, Howard W., to General Motors Corp. Power plant control mechanism. 3,025,718, 3–20–62, Cl. 74—645.
Christenson, Howard W. Transmission. 3,039,326, 6–19–62, Cl. 74—688.
Christenson, Howard W., to General Motors Corp. Transmission. 3,039,328, 6–19–62, Cl. 74—796.
Christenson, Howard W., to General Motors Corp. Transmission. 3,059,746, 10–23–62, Cl. 192—87.
Christenson, Howard W., to General Motors Corp. Transmission. 3,064,779, 11–20–62, Cl. 192—85.
Christenson, Howard W., to General Motors Corp. One-way engaging mechanism. 3,068,978, 12–18–62, Cl. 192—45.
Christenson, Howard W., W. G. Livezey, and U. A. Breting, to General Motors Corp. Transmission. 3,016,769, 1–16–62,
Christenson, Howard W., M. E. Fisher, R. H. Schaefer, W. B. Clark, and S. A. Rains, to General Motors Corp. Transmission. 3,053,116, 9–11–62, Cl. 74—752.

Christenson, James J., to Towmotor Corp. Straddle trailer. 3,019,926, 2–6–62, Cl. 214—392.
Christenson, James J., and F. G. Maloney; said Maloney assor. to Towmotor Corp. Wheeled vehicle supporting mechanism. 3,031,203, 4–24–62, Cl. 280—104.5.
Christenson, James J., and F. G. Maloney, to Towmotor Corp. Straddle trailer. 3,045,848, 7–24–62, Cl. 214—392.
Christenson, Lowell B.: *See*—
Alcorn, Irwin W., Graham, and Christenson. 3,054,267.
Christenson, Roger M., to Pittsburgh Plate Glass Co. Resinous materials. 3,037,963, 6–5–62, Cl. 260—72.
Christenson, Roger M., to Pittsburgh Plate Glass Co. Compositions comprising blends of aldehyde-modified amide interpolymers with amine resins and articles coated therewith. 3,050,495, 8–21–62, Cl. 260—45.2.
Christenssson, Od V. Arrangement for heat-sealing of packages. 3,058,274, 10–16–62, Cl. 53—112.
Christian, Clarence A. Gas vaporizer attachment. 3,042,016, 7–3–62, Cl. 123—122.
Christian, Curtis G., to Union Oil Co. of California. Production of terephthalic acid from toluene. 3,047,620, 7–31–62, Cl. 260—522.
Christian, Edward H., and E. C. Ureda, to Allis-Chalmers Mfg. Co. Fault indicator. 3,021,515, 2–13–62, Cl. 340—253.
Christian, Edwin B.: *See*—
Jacobsen, John B., Christian, and McNamara. 3,049,134.
Christian, Francis K. Container cap. 3,027,034, 3–27–62, Cl. 215—9.
Christian, Frank S. Combined push broom and dust cloth. 3,034,165, 5–15–62, Cl. 15—247.
Christian, James B. L., to United-Carr Fastener Corp. Means for resiliently supporting a rod or the like. 3,050,349, 8–21–62, Cl. 308—26.
Christian, John D. *See*—
Fisher, Elton, Christian, and Giachino. 3,054,796.
Christian, John D., to Cassiar Asbestos Corp. Ltd. Apparatus for cleaning and grading asbestos. 3,021,008, 2–13–62, Cl. 209—299.
Christian, Joseph D., to Holo-Flite International Inc. Pulleys and like power drive devices. 3,056,054, 9–25–62, Cl. 310—59.
Christian, William C. Article carrier for kite strings. 3,023,988, 3–6–62, Cl. 244—155.
Christiansen, Arvid: *See*—
Singley, John E., and Christiansen. 3,044,983.
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Christiansen, Godtfred K., to Interlego A.G. Toy building sets and building blocks. 3,034,254, 5–15–62, Cl. 46—25.
Christiansen, Milton J., to Western Electric Co., Inc. Apparatus for advancing articles. 3,066,788, 12–4–62, Cl. 198—34.
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Christiansen, Paul: *See*—
Walker, Edward J., and Christiansen. 3,040,234.
Christiansen, Robert G.: *See*—
Clinton, Raymond O., and Christiansen. 3,033,752.
Christianson, Arnold. Outboard motor stand. 3,026,105, 3–20–62, Cl. 269—163.
Christianson, George, to The Rath Packing Co. Method of separating liquid fat from meat fibers. 3,058,830, 10–16–62, Cl. 99—108.
Christianson, Philip L.: *See*—
Hummel, Fred E., and Christianson. 3,053,764.
Christiansson, Carl M., to Aktiebolaget Bofors. Ramming device for ramming a round of ammunition. 3,029,707, 4–17–62, Cl. 89—47.
Christie, Chester D., to Eaton Mfg. Co. Axle mechanism. Re. 25,269, 10–23–62, Cl. 180—22.
Christie, Donald R.: *See*—
Beaumont, Ralph H., and Christie. 3,032,441.
Christie, John B.: *See*—
Rigg, Karl F., Morgan, and Christie. 3,067,874.
Christie, Reginald A., and W. R. Rowbotham, to International Harvester Co. Mower lift device. 3,043,074, 7–10–62, Cl. 56—25.
Christie, Arnold B. Golf ball retrieving device. 3,046,044, 7–24–62, Cl. 294—19.
Christman, Charles W., to Formacel, Inc. Cellular cored panels and continuous process for manufacturing same. 3,017,971, 1–23–62, Cl. 189—34.
Christman, Dean W.: *See*—
Brockway, Charles E., Christman, and Estes. 3,061,471.
Christman, Donald L., and E. J. Vandenberg, to Hercules Powder Co. Process for polymerization of vinyl ethers. 3,025,282, 3–13–62, Cl. 260—91.1.
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Christoff, Chris: *See*—
Busch, Richard E., and Christoff. 3,028,063.
Donan, John F., Powell, and Christoff. 3,028,085.
Christoff, Chris A., to Clary Corp. Motion conversion mechanism. 3,018,665, 1–30–62, Cl. 74—99.
Christoff, Chris A., to Clary Corp. Inking device. 3,043,214, 7–10–62, Cl. 101—97.
Christoff, Chris A., and J. D. Gearheart, to Clary Corp. Paper feeding apparatus. 3,058,638, 10–16–62, Cl. 226—76.
Christoff, James W., to Mannix Co. Ltd. Under-track device for use on railroads. 3,020,853, 2–13–62, Cl. 104—7.
Christoff, James W., to Mannix Co. Ltd. Track handling apparatus for railroad tracks. 3,054,359, 9–18–62, Cl. 104—7.
Christofferson, James: *See*—
Chick, Russell W., Christofferson, and Vigneau. 3,047,-933.
Christofilos, Nicholas C., to United States of America, Atomic Energy Commission. Method and apparatus for injecting and trapping electrons in a magnetic field. 3,036,963, 5–29–62, Cl. 204—154.2.
Christoph, Walter P., to United States of America, Navy. Vibratory dynamic force meter. 3,024,645, 3–13–62, Cl. 73—71.4.
Christoph, Walter P., to United States of America, Navy. Hydraulic geophone amplifier with band-pass filter. 3,054,-592, 9–18–62, Cl. 251—61.
Christopher, George L. M.: *See*—
Matsuda, Ken, and Christopher. 3,040,110.
Christopher, Glenn B., to Jet Research Center, Inc. Apparatus for cutting sections from well casings. 3,053,182, 9–11–62, Cl. 102—20.
Christopher, Glenn B., to Jet Research Center, Inc. Apparatus for cutting oil well tubing and the like. 3,057,295, 10–9–62, Cl. 102—20.
Christophersen, Clarence E., to Aeroquip Corp. Swivel joint having a resilient flange. 3,058,761, 10–16–62, Cl. 285—281.
Christophersen, Ralph C. Dish drying rack. 3,025,967, 3–20–62, Cl. 211—41.
Christopherson, Raymond G. Shoe protector. 3,024,544, 3–13–62, Cl. 36—72.
Christy, Alexander C. Igniting tip cigarette. 3,046,995, 7–31–62, Cl. 131—20.
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Christy, Daniel L. Machine for dispensing and distributing comminuted materials. 3,070,264, 12–25–62, Cl. 222—227.
Christy, Donald F. Geometrical instrument. 3,028,679, 4–10–62, Cl. 33—215.
Chromalloy Corp.: *See*—
Samuel, Robert L. 3,061,462.
Samuel, Robert L. 3,061,463.
Samuel, Robert L., and Lockington. 3,029,162.
Seelig, Richard P., and Wachtell. 3,065,108.
Wachtell, Richard L., and Seelig. 3,028,261.
Wachtell, Richard L., and Seelig. 3,037,883.
Chromium Corp. of America: *See*—
Zubrisky, William J. 3,063,763.
Chromium Mining & Smelting Corp., Ltd.: *See*—
Fegan, George J. 3,017,262.
Chromizing Corp.: *See*—
Commanday, Maurice R., and Darnell. 3,015,579.
Commanday, Maurice R., and Darnell. 3,030,491.
Chromcraft Corp.: *See*—
Nash, John J. 3,025,105.
Chromy, Benjamin J.: *See*—
Allen, Philip H., and Chromy. 3,038,158.
Chronicle Publishing Co.: *See*—
Paschal, Don F. 3,049,324.
Church, Alice W.: *See*—
Kirkpatrick, Williard H., Seale, and Church. 3,061,620.
Chrysler Corp.: *See*—
Ball, Thomas M. 3,038,706.
Ball, Thomas M. 3,044,457.
Ball, Thomas M. 3,053,313.
Ball, Thomas M. 3,070,347.
Ball, Thomas M., Graham, Elliott, Hurst, and Noftz 3,026,860.
Bard, Donald O. 3,043,635.
Beatty, Howard W., Jr., and Brady. 3,049,141.
Bowlus, Omer E. 3,018,782.
Bowlus, Omer E., and Graham. 3,049,644.
Broeder, Raymond L., Tache, and Kamradt. 3,038,522.
Brown, Edward M. 3,026,861.
Brugler, Richard L. 3,030,872.
Brugler, Richard L. 3,059,447.
Campbell, James S. 3,053,270.
Cartwright, Bert W. 3,035,457.
Cartwright, Bert W., Miller, and Iavelli. 3,053,115.
Chadwick, Alexander, and Golec. 3,044,262.
Charipar, Jack E. 3,027,186.
Chute, Richard, and Buning. 3,048,915.
Cousino, Walter P., and Palmer. 3,048,980.
De Leo, Peter D. 3,053,977.
Donker, Robert J. 3,054,054.
Dunn, George E. 3,053,584.
Eccles, Robert O. 3,038,206.
Eddy, James W. 3,049,329.
Elliott, Clifton M. 3,038,461.
Faber, Francis E. 3,065,497.
Farrell, Robert E., and Nuss. 3,059,580.
Farrow, Ronald L. 3,053,565.
Folkerts, Walter E. 3,053,109.
Folkerts, Walter E. 3,070,072.
Frick, Darrell C., and Wise. 3,027,176.
Fujioka, Richard T. 3,038,208.
Goldmann, Kenneth F., and Lejk. 3,050,962.
Gorsica, Chester J. 3,053,544.
Graham, Kenneth A. 3,049,643.

Chrysler Corp. : *See*—Continued
Halbeisen, John F. 3,035,421.
Halbeisen, John F. 3,035,422.
Henny, Willi, and Savonuzzi. 3,059,900.
Henny, Willi, Savonuzzi, and Mendelsohn. 3,038,697.
Jominy, Walter E., and Roy. 3,059,326.
Karlstad, Maurice D., Jr. 3,027,177.
Keeler, Owen F. 3,063,748.
Kerrigan, James C. 3,048,872.
Kessel, Bernard B. 3,063,439.
Klocke, David E., and Ryszewski. 3,053,556.
Little, Harvey J. 3,038,825.
Lower, Ralph C., and Perez. 3,044,273.
McCordic, James R. 3,022,678.
McCordic, James R. 3,049,023.
McKenney, Henry F. 3,070,406.
Miller, William E. 3,036,011.
Platner, John B. 3,053,241.
Saffer, John L., and Soltman. 3,031,225.
Sarto, Jorma O. 3,030,943.
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Savonuzzi, Giovanni F. 3,059,902.
Stadelmann, Joachim P. 3,049,636.
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Sturtevant, Mark J., and Kelley. 3,059,562.
Voltmann, Robert. 3,045,176.
Weatherhead, Herman R., and Butler. 3,070,122.
Wise, Eugene P. 3,031,010.
Wise, Eugene P. 3,059,909.
Zednik, Louis, Jr. 3,053,336.
Chrystler, Raymond E. Portable trailer. 3,057,492, 10–9–62, Cl. 214—84.
Chu, Ge Y. : *See*—
Wang, An, and Chu. 3,015,806.
Chu, Gordon P. K., and W. C. Helwig, to Pfaudler Permutit, Inc. Method of making enameled ductile iron. 3,055,779, 9–25–62, Cl. 148—139.
Chu, Ting L., and R. L. Longini, to Westinghouse Electric Corp. Process and apparatus for producing silicon. 3,058,812, 10–16–62, Cl. 23—223.5.
Chubb, Lewis W., Jr. : *See*—
Booth, Joseph H., and Chubb. Re. 25,167.
Chubb, Melvin F., and J. M. Dines, to The Eagle-Picher Co. Electric battery. 3,022,364, 2–20–62, Cl. 136—90.
Chubb, Talbot A. : *See*—
Friedman, Herbert, and Chubb. 3,037,387.
Chubb, Talbot A. Metal-amine-complex in Geiger counter. 3,030,537, 4–17–62, Cl. 313—93.
Chubb, Talbot A. Counter tube. 3,048,730, 8–7–62, Cl. 313—93.
Chubbs, Howard L. Ladder attachment. 3,028,929, 4–10–62, Cl. 182—206.
Chudek, John, Jr. Card display rack. 3,019,540, 2–6–62, Cl. 40—102.
Chudleigh, Walter H., Jr. : *See*—
Brenner, Millard M., and Chudleigh. 3,060,824.
Chudnow, Morris H. Double stroke variable control fluid dispensing valve. 3,015,420, 1–2–62, Cl. 222—144.5.
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Chumley, Kleber D. Stopper attachment for a vacuum bottle. 3,018,912, 1–30–62, Cl. 215—100.
Chung, Jackson : *See*—
Firth, David, and Chung. 3,027,773.
Chung, Jackson, to Dodge Mfg. Corp. Shaft bushing. 3,023,034, 2–27–62, Cl. 287—52.
Chung, Jackson, to Dodge Mfg. Corp. Adjustable multiple groove sheave. 3,063,300, 11–13–62, Cl. 74—230.17.
Chung, Paul K. : *See*—
Rumpp, Norman L., Glass, and Chung. 3,054,353.
Chung, Paul K., to United States of America, Navy. Case-bonding of double-base propellant grain by using silicone elastomers. 3,054,253, 9–18–62, Cl. 60—35.6.
Chupack, Leah S. : *See*—
Bailey, Milton, and Chupack. 3,067,609.
Chupp, John P. : *See*—
Baker, Joseph W., and Chupp. 3,030,265.
Baker, Joseph W., Chupp, and Newallis. 3,030,264.
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Baker, Joseph W., Chupp, and Newallis. 3,057,774.
Newallis, Peter E., Baker, and Chupp. 3,061,613.
Newallis, Peter E., Baker, and Chupp. 3,065,125.
Newallis, Peter E., Baker, and Chupp. 3,065,126.
Newallis, Peter E., Baker, and Chupp. 3,070,488.
Newallis, Peter E., Baker, and Chupp. 3,070,489.
Newallis, Peter E., and Chupp. 3,058,878.
Chupp, John P., to Monsanto Chemical Co. Halogen substituted alkenylthioalkyl esters of phosphorus acids. 3,029,305, 2–6–62, Cl. 260—461.
Chupp, John P., to Monsanto Chemical Co. Haloalkenyloxyalkyl phosphorothioates. 3,028,302, 4–3–62, Cl. 167—22.
Chupp, John P., to Monsanto Chemical Co. Phosphinyloxyvinyl phosphorothioates. 3,028,303, 4–3–62, Cl. 167—22.
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Chupp, John P., to Monsanto Chemical Co. Phosphorodithioates. 3,037,904, 6–5–62, Cl. 167—22.
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Chupp, John P., and P. E. Newallis, to Monsanto Chemical Co. S-(2-cyanoalkyl) phosphonothioates. 3,041,365, 6–26–62, Cl. 260—461.
Church, Clar P. : *See*—
Edgecombe, David A., Walker, and Church. 3,061,093.
Church, David A., and R. L. Schwoebel, to United States of America, Navy. Film stress transducer. 3,040,565, 6–26–62, Cl. 73—88.5.
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Church, Sidney S. Binding device. 3,039,471, 6–19–62, Cl. 129—23.
Churcher, Thomas C., to The British Oxygen Co. Ltd. Treatment of molten ferrous material. 3,058,734, 10–16–62, Cl. 266—34.
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Churchill, Arthur V., and E. L. Fareri, to Gulf Research & Development Co. Thermally stable combustion gas turbine fuels. 3,067,019, 12–4–62, Cl. 44—62.
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Churchill, George R., to George R. Churchill Co., Inc. Buffing wheel. 3,023,549, 3–6–62, Cl. 51—193.
Churchill, George R., Co., Inc. : *See*—
Churchill, George R. 3,023,549.
Churchill, John A., to Foster-Maillard Ltd. Sound reproducing machines. 3,064,981, 11–20–62, Cl. 274—10.
Churchill, John R. : *See*—
Churchill, Gary B. 3,029,043.
Churchill, Robert W. : *See*—
Braun, Karl J., and Churchill. 3,027,071.
Churchman, Wayne D., and I. S. Kannel; said I. S. Kannel, assor. to W. D. Churchman. Anchor. 3,066,636, 12–4–62, Cl. 114—206.
Churchward, Jack. Anchor. 3,057,318, 10–9–62, Cl. 114—208.
Chute, Richard, and E. J. Bunning, to Chrysler Corp. Fuel injection nozzle for a gas turbine engine. 3,048,915, 8–14–62, Cl. 29—157.
Chute, Richard L. Musical device. 3,027,794, 4–3–62, Cl. 84—406.
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Chyo, Toshio. Weighing balance. 3,047,083, 7–31–62, Cl. 177—150.
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Ciabattari, Emil J., to Yeomans Brothers Co. Method and apparatus for handling waste material. 3,049,489, 8–14–62, Cl. 210—15.
Ciaccio, Peter L. Reel feed transmission for cable feed apparatus for sewer cleaning flexible drive cable and the like. 3,025,547, 3–20–62, Cl. 15—104.3.
Ciaio, Joseph A., to Modern Shoe Making Machine Corp. Method of stiffening a shoe upper. 3,026,573, 3–27–62, Cl. 18—59.
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Ciapetta, Frank G. : *See*—
Wilson, Charles P., Jr., Ciapetta, and Elston. 3,055,737.
Wilson, Charles P., Jr., Ciapetta, and Elston. 3,066,012.
Ciapetta, Frank G., H. L. Coonradt, and W. E. Garwood, to Socony Mobil Oil Co., Inc. Production of high quality light jet fuel. 3,015,549, 1–2–62, Cl. 208—60.
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Fasciati, Alfred, and Gunst. 3,040,023.
Gunst, Raymond. 3,040,021.
Staeuble, Max, and Stahel. 3,031,252.
Staeuble, Max, and Weber. 3,029,236.
Wegmann, Jacques, and Becker. 3,020,166.
Werdenberg, Hermann. 3,068,058.

Ciba Corp.: *See*—
Druey, Jean, and Eichenberger. 3,060,185.
Druey, Jean, Eichenberger, Schmidt, and Rossi. 3,060,177.
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Druey, Jean, Schmidt, Eichenberger, and Wilhelm. 3,036,070.
Druey, Jean, Schmidt, Eichenberger, and Wilhelm. 3,055,899.
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Erlenmeyer, Hans, Fallab, and Hemmerich. 3,048,578.
Gaeumann, Ernst, Prelog, and Wettstein. 3,039,924.
Grob, Cyril. 3,060,196.
Gunst, Raymond. 3,050,515.
Hoffmann, Karl, Rossi, and Kebrle. 3,055,912.
Hoffmann, Karl, and Sury. 3,048,594.
Huebner, Charles F. 3,036,082.
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Huebner, Charles F. 3,060,186.
Hunger, Alfred, and Ziegler. 3,048,603.
Jeger, Oskar, Arigoni, Meystre, and Wettstein. 3,040,-040.
Kuehne, Martin E. 3,033,860.
Kuehne, Martin E. 3,063,990.
Lachman, Leon, and Malspeis. 3,060,089.
Lucas, Robert A. 3,036,079.
Lucas, Robert A. 3,048,591.
Lucas, Robert A., and Dickel. 3,036,060.
MacPhillamy, Harold B., and Lucas. 3,036,061.
MacPhillamy, Harold B., and Lucas. 3,036,062.
Marxer, Adrian. 3,040,030.
Marxer, Adrian. 3,060,188.
Mueller, Paul, and Trefzer. 3,060,231.
Mull, Robert P. 3,036,083.
Mull, Robert P. 3,055,882.
Mull, Robert P. 3,055,883.
Oberlin, Max, and Frey. 3,048,604.
Prelog, Vladimir, Gaeumann, and Wettstein. 3,055,807.
Ruzicka, Leopold, and Heusser. 3,040,067.
Schwyzer, Robert, Iselin, and Feurer. 3,035,041.
Schwyzer, Robert, and Riniker. 3,040,017.
Urech, Ernst. 3,056,789.
Walker, Gordon N. 3,055,902.
Wegmann, Jacques. 3,043,649.
Wegmann, Jacques, and Renggli. 3,043,650.
Wettstein, Albert, and Anner. 3,048,606.
Wettstein, Albert, Anner, and Ehmann. 3,060,174.
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Wettstein, Albert, Anner, Heusler, and Wieland. 3,056,-779.
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Wettstein, Albert, Anner, Meystre, Wieland, Ehmann, Heusler, Hunger, and Kebrle. 3,040,072.
Wettstein, Albert, Heusler, and Wieland. 3,040,039.
Wettstein, Albert, and Meystre. 3,060,207.
Wettstein, Albert, Vischer, Kahnt, Meystre, and Neher. 3,060,100.
Wettstein, Albert, Vischer, Urech, and Jeger. 3,055,806.
Witkin, Lloyd B. 3,060,091.

Ciba Ltd.: *See*—
Abel, Heinz. 3,062,609.
Albrecht, Otto. 3,027,387.
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Albrecht, Otto. 3,038,820.
Altermatt, Hans. 3,036,077.
Arni, Hans, and Jordi. 3,069,721.
Batzer, Hans, Fisch, and Porret. 3,028,385.
Batzer, Hans, and Nikles. 3,023,174.
Beriger, Ernst. 3,016,326.
Beriger, Ernst. 3,035,079.
Beriger, Ernst. 3,055,798.
Bosshard, Hans H., and Zollinger. 3,045,019.
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Bosshard, Hans H., and Zollinger. 3,051,542.
Buehler, Arthur. 3,070,602.
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Buehler, Arthur, Fasciati, and Zickendraht. 3,041,327.
Caliezi, Armin. 3,016,284.
Caliezi, Armin. 3,024,239.
Casty, Richard, and Abel. 3,049,392.
D'Alcantara, Antonio V. M. 3,068,789.
Deflorin, Alberto, and Maeder. 3,051,688.
De Vecchi, Paul. 3,047,937.
Duennenberger, Max., Maeder, and Siegrist. 3,036,084.
Frey, Christoph, Mory, and Moser. 3,036,071.
Frey, Jost. 3,052,518.
Gaertner, Hans, and Reich. 3,018,155.
Gross, Gustav-Adolf. 3,062,842.
Grossmann, Paul. 3,040,064.
Grossmann, Paul, and Rhyner. 3,036,078.

Ciba Ltd.: *See*—Continued
Hiestand, Armin. 3,023,176.
Hiestand, Armin. 3,055,924.
Hiltpold, Robert, Fisch, and Speiser. 3,055,433.
Kern, Fritz. 3,047,476.
Koch, Jacob. 3,043,843.
Koller, Eugen J., and Illy. 3,059,988.
Liechti, Hans W. 3,037,014.
Liechti, Hans W. 3,060,168.
Liechti, Hans W., and Ruegg. 3,057,845.
Maeder, Arthur. 3,025,219.
Maeder, Arthur. 3,025,265.
Maeder, Arthur. 3,040,012.
Maeder, Arthur. 3,043,822.
Martin, Henry, and Aebi. 3,060,235.
Mory, Rudolf, and Frey. 3,022,298.
Moser, Eduard. 3,057,847.
Moser, Eduard. 3,057,870.
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Porret, Daniel, and Maeder. 3,028,426.
Raimondi, Donato. 3,068,533.
Riat, Henri, de Montmollin, and Seitz. 3,040,024.
Ronco, Karl. 3,065,229.
Ruperti, Andreas. 3,050,419.
Scheller, Walter, and Renard. 3,038,781.
Scheller, Walter, and Renard. 3,068,066.
Siegrist, Adolf E., and Duennenberger. 3,033,720.
Simon, Wilhelm. 3,025,174.
Staeuble, Max, and Weber. 3,022,304.
Staeuble, Max, and Weber. 3,054,795.
Staeuble, Max, and Weber. 3,060,180.
Ueberwasser, Helmut, and Uehlinger. 3,034,573.
Widmer, Gustav. 3,043,741.
Zuppinger, Paul, and Widmer. 3,027,339.

Ciba Pharmaceutical Products Inc.: *See*—
Druey, Jean, and Isler. 3,026,319.
Druey, Jean, and Meier. 3,033,870.
Eschenmoser, Albert. 3,033,854.
Gaeumann, Ernst, Bickel, and Vischer. 3,033,760.
Hoffmann, Karl, and Sury. 3,033,868.
Huebner, Charles F. 3,025,294.
Huebner, Charles F. 3,025,300.
Huebner, Charles F. 3,031,459.
Jeger, Oskar. 3,033,871.
Jeger, Oskar, and Arigoni. 3,034,859.
Lucas, Robert A. 3,031,453.
Mull, Robert P. 3,030,378.
Mueller, Paul, and Trefzer. 3,026,324.
Schlittler, Emil. 3,025,298.
Werner, Lincoln H. 3,024,248.
Wettstein, Albert, Anner, Meystre, Wieland, Ehmann, Heusler, Hunger, and Kebrle. 3,026,340.
Wettstein, Albert, Anner, Meystre, Wieland, Ehmann, Heusler, Hunger, and Kebrle. 3,033,881.
Wettstein, Albert, and Heusler. 3,026,336.
Wettstein, Albert, Neher, De Saulles, Vischer, and Wieland. 3,033,748.
Wettstein, Albert, Neher, Vischer, and Wieland. 3,033,749.
Wettstein, Albert, and Vischer. 3,033,759.

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Ciccolella, David F., J. H. Forster, and R. L. Rulison, to Bell Telephone Laboratories, Inc. Semiconductor diode. 3,067,-485, 12–11–62, Cl. 29—25.3.

Ciccone, Jack M.: *See*—
Nifontoff, George, and Ciccone. 3,060,888.

Cicconi, Rudolph J.: *See*—
Johnson, Robert K., and Cicconi. 3,037,539.

Ciceri, Carlo: *See*—
Murphy, Norman, and Ciceri. 3,050,906.

Cichelli, Mario T., to E. I. du Pont de Nemours and Co. Method and apparatus for heat transfer. 3,061,940, 11–6–62, Cl. 34—18.

Cichowski, Felix A.: *See*—
Glatz, Joseph L., and Cichowski. 3,037,287.

Ciechanowski, Alex: *See*—
Ruskin, Henry, and Ciechanowski. 3,041,618.

Cief, Juan. Device for testing and adjusting injection pumps. 3,026,723, 3–27–62, Cl. 73—119.

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Cieniawa, Edward A.: *See*—
Malek, Joseph V., and Cieniawa. 3,054,981.

Cieplik, Ronald J.: *See*—
Carlin, Harry, and Cieplik. 3,051,480.

Cieremans, Cornelis J. A.: *See*—
Euwe, Gerrit E., and Cieremans. 3,018,146.

Cieremans, Cornelis J. A., to Lever Brothers Co. Presses. 3,050,807, 8–28–62, Cl. 25—10.

Ciesinski, Adam F.: *See*—
Tatarek, Adam. 3,064,700.

Ciesielski, Anthony: *See*—
Asaro, Vito, and Ciesielski. 3,049,377.

Ciesielski, Leo F.: *See*—
Garber, Murray, Herrlinger, Albrecht, and Ciesielski. 3,038,945.

Cignarella, Giorgio: *See*—
Teotino, Uberto, and Cignarella. 3,051,727.
Teotino, Uberto, and Cignarella. 3,067,208.
Cilag-Chemie Aktiengesellschaft: *See*—
Habicht, Ernst, and Muller. 3,038,896.
Ciliker, William H., and D. S. Bartlett, Jr., to FMC Corp. Method of and apparatus for manufacturing a reinforced plastic product. 3,068,133, 12–11–62, Cl. 156—171.
Ciliker, William H., and G. A. Reynolds, Jr., to FMC Corp. Method of making composite plastic pipe of reinforcing glass fibers. 3,068,134, 12–11–62, Cl. 156—172.
Cimax Ltd.: *See*—
Stratford, Alfred C. 3,021,550.
Ciments Lafarge: *See*—
Maurand, Rene L. F. 3,019,835.
Cimerman, Isaac: *See*—
Beaulieu, Donat E., and Cimerman. 3,054,072.
Cimerman, Isaac, W. Saeger, and V. A. Mina, to Radio Corp. of America. Voltage monitoring apparatus. 3,037,151, 5–29–62, Cl. 317—27.
Cimino, Charles, to Thew Shovel Co. Carrier with demountable side frames. 3,036,650, 5–29–62, Cl. 180—9.2.
Cimochowski, Anthony E.: *See*—
Rutter, Donald P., and Cimochowski. 3,031,358.
Cimochowski, Anthony E., to Celotex-Manville Corp. Method for forming grooves in metal. 3,068,932, 12–18–62, Cl. 153—73.
Cimoli, Idolo: *See*—
Malgesini, Tony. 3,025,848.
Cincinnati Gilbert Machine Tool Co.: *See*—
Gilbert, Charles E., Sr., and Winget. 3,042,460.
Cincinnati Mfg. Corp.: *See*—
Straus, S. Charles. 3,049,932.
Straus, Samuel C. 3,026,156.
Cincinnati Milling Machine Co., The: *See*—
Attermeyer, Lawrence A. 3,018,696.
Bowman, Charles J. 3,067,337.
Dall, Albert H., and Grove. 3,046,704.
Dall, Albert H., and Grove. 3,060,647.
Decker, Jacob. 3,019,066.
Decker, Jacob. 3,034,265.
Decker, Jacob. 3,050,912.
Decker, Jacob, and Steinhard. 3,018,590.
Decker, Jacob, and Stuckey. 3,043,056.
Ernst, Hans, Haggerty, and Ritter. 3,037,329.
Evans, Wendell I. 3,026,680.
Grove, George L. 3,046,703.
Grove, George L., and Decker. 3,046,710.
Grzymek, Rolf. 3,052,069.
Henry, Robert L. 3,019,343.
Horlacher, Herman. 3,016,016.
Horlacher, Herman. 3,060,690.
Huber, Clarence E., and Thompson. 3,037,029.
Kane, William B. 3,052,013.
Kibbey, Harry S. 3,030,198.
Lynch, John E., Brennan, and Brasington. 3,018,698.
Morgan, John M., Jr., Brown, and Rave. 3,019,377.
Morgan, John M., Jr., and Wise. 3,056,240.
Olton, Peter F. 3,066,578.
Olton, Peter F. 3,066,782.
Reid, Horace W., Jr. 3,043,275.
Schroeder, Walter, and Dall. 3,018,697.
Seidel, William B. 3,031,897.
Seidel, William B., and Gosney. 3,056,239.
Schroeder, Walter. 3,052,334.
Stroms, Karl F. 3,060,773.
Untenwoldt, Herbert R. 3,021,539.
Wiatt, James G., and Butterworth. 3,037,332.
Cincinnati Mine Machinery Co., The: *See*—
Krekeler, Claude B. 3,057,609.
Cincinnati Shaper Co., The: *See*—
Hazelton, Merrill W., and Ostendorf. 3,041,963.
Cincinnati Time Recorder Co., The: *See*—
Kleimeyer, Vernon T. 3,028,722.
Cinco, Francisco R.: *See*—
Olmsted, Bernie A., and Cinco. 3,020,593.
Cinechimica: *See*—
Stella, Virginio. 3,041,196.
Cines, Martin R., to Phillips Petroleum Co. Disposal of fluorine wastes. 3,024,084, 3–6–62, Cl. 23—88.
Cines, Martin R., to Phillips Petroleum Co. Production of ethylene-butene copolymer. 3,067,184, 12–4–62, Cl. 260—88.2.
Cines, Martin R., and E. J. Kosinsky, to Phillips Petroleum Co. Pigmentation of solid olefin polymers by dry blending cellular form thereof with carbon black. 3,030,330, 4–17–62, Cl. 260—41.
Ciniglio, Ignazio. Spool for yarn material. 3,045,944, 7–24–62, Cl. 242—118.2.
Cinnirella, Edward C., to Sperry Rand Corp. Fluid flow control valve. 3,023,779, 3–6–62. Cl. 137—623.
Cinotti, Julius A. Universal concrete edger. 3,045,271, 7–24–62, Cl. 15—235.8.
Cioffi, Louis A. Anti-siphoning device. 3,016,162, 1–9–62, Cl. 220—86.
Cioffi, Paul P., to Bell Telephone Laboratories, Inc. Electron beam focusing system. Re. 25,189, 6–19–62, Cl. 315—3.5.
Cipelli, Francesco, to Merck & Co., Inc. Methods of therapy employing magnesium glucoheptonated. 3,063,896, 11–13–62. Cl. 167—55.
Cipriani, Cipriano, to Celanese Corp. of America. Cellulose ester solutions. 3,038,814, 6–12–62, Cl. 106—278.
Cira, James W., to American Radiator & Standard Sanitary Corp. Louvered grille. 3,060,834, 10–30–62, Cl. 98—121.
Cirafesi, James C. Cartwheeling stick. 3,069,804, 12–25–62, Cl. 46—1.
Cirami, Salvatore. One-piece vehicle body. 3,023,045, 2–27–62, Cl. 296—31.
Circuit Research Co.: *See*—
Burr, Robert P., and Keogh. 3,044,695.
Circuit Structures Lab., Inc.: *See*—
Van Deusen, Edmund L. 3,024,437.
Circular Bonding Co., Inc.: *See*—
Briscoe, Madison H. 3,043,210.
Ciringione, Joseph L., and B. Naguszewski, to United States of America, Navy. Apparatus for testing torsional vibration dampers. 3,054,284, 9–18–62, Cl. 73—67.2.
Cirone, Frank P., to Bell Telephone Laboratories, Inc. Sawtooth oscillator. 3,015,784, 1–2–62, Cl. 331—111.
Cirone, Frank P., to Bell Telephone Laboratories, Inc. Transistor scanner network. 3,061,682, 10–30–62, Cl. 179—15.
Cirone, Frank P., J. A. Harr, and T. N. Lowry, to Bell Telephone Laboratories, Inc. Line concentrator control circuit. 3,036,161, 5–22–62, Cl. 179—18.
Cirrito, Anthony J., to Rice Barton Corp. Mechanism for removal of air from paper-making machine feed stock. 3,034,577, 5–15–62, Cl. 162—337.
Cirrito, Anthony J., to Rice Barton Corp. Stock inlet. 3,055,-421, 9–25–62, Cl. 162—340.
Ciscel, Benjamin H., to Minneapolis-Honeywell Regulator Co. Automatic pilots. 3,054,580, 9–18–62, Cl. 244—77.
Cislak, Francis E., to Reilly Tar & Chemical Corp. Hydroxyalkylpyrridinethionamides. 3,045,024, 7–17–62, Cl. 260—294.8.
Cislak, Francis E., to Reilly Tar & Chemical Corp. Dipyridyl quaternary salts. 3,049,547, 8–14–62, Cl. 260—294.8.
Cislak, Francis E., to Reilly Tar & Chemical Corp. Process for making pyridylacetic acids and esters. 3,069,427, 12–18–62, Cl. 260—293.
Cislak, Francis E., and W. R. Wheeler, to Reilly Tar & Chemical Corp. Quinoline synthesis. 3,020,280, 2–6–62, Cl. 260—283.
Cislak, Francis E., and W. R. Wheeler, to Reilly Tar & Chemical Corp. Method of preparing quinoline. 3,020,281, 2–6–62, Cl. 260—283.
Cislak, Francis E., and W. R. Wheeler, to Reilly Tar & Chemical Corp. Process of preparing quinoline. 3,020,282, 2–6–62, Cl. 260—283.
Cislo, Casimer J., to General Motors Corp. Air suspension control apparatus. 3,048,193, 8–7–62, Cl. 137—627.5.
Cissell, W. M., Mfg. Co.: *See*—
Richterkessing, Frank H. 3,033,429.
Richterkessing, Frank H. 3,047,963.
Richterkessing, Frank H. 3,051,358.
Richterkessing, Frank H. 3,058,635.
Richterkessing, Frank H., Brian, and Ingold. 3,068,588.
Cissna, David H., and C. K. Cole, to The Heil Co. Stabilizer for load handling equipment. 3,048,284, 8–7–62, Cl. 214—77.
Cistaro, Anthony B., to International Business Machines Corp. Display device. 3,041,491, 6–26–62, Cl. 313—108.
Cities Service Research and Development Co.: *See*—
Berger, Bernard H. 3,046,230.
Brindell, Gordon D. 3,068,286.
Clark, Lincoln. 3,052,621.
Frame, John D., Haney, and White. 3,041,267.
Hess, Frederick G., and Bradbury. 3,051,648.
Jarboe, Ralph R., Jr. 3,044,547.
Kerschner, Paul M., and Meyers. 3,055,864.
Price, William H. 3,070,541.
Scott, J. O. 3,050,123.
White, Edmund W. 3,068,167.
Citizen Watch Co., Ltd.: *See*—
Nakagiri, Tadahiko. 3,026,506.
Citroen, Andre, Societe Anonyme: *See*—
Brueder, Antoine. 3,036,426.
Brueder, Antoine. 3,049,149.
Brueder, Antoine. 3,062,199.
Brueder, Antoine. 3,067,775.
Cadiou, Jean. 3,052,312.
Citrus Equipment Corp.: *See*—
James, Donald R. 3,070,140.
Wurgaft, Robert L. 3,060,984.
City Linen, Inc.: *See*—
Rawlings, John H. 3,044,075.
City National Bank and Trust Co. of Chicago: *See*—
Field, Edward A. 3,040,734.
Laser, William F., and Yost. 3,031,199.
City National Bank and Trust Co. of Chicago, as trustee under the Cartridge Type Seal Liquidation Trust: *See*—
Laser, William F. 3,061,318.
City Parking Ltd.: *See*—
Macrae, William K., and Jackson. 3,050,260.
City Tank Corp.: *See*—
Bamber, Cletus F. 3,018,630.
Brown, Robert E. 3,027,028.
Civerolo, Eusebius L., to Texaco Inc. Safety device for holding control valve in open position during filling operation. 3,033,246, 5–8–62, Cl. 141—208.
Civile de Recherches et d'Etudes, Societe: *See*—
Vincens, Rene. 3,042,473.
Civile d'Etude de Procedes de Scellement, Societe: *See*—
Reymond, Michel. 3,040,325.

Civitano, Michael J. Telephone signal device and the like. 3,038,965, 6–12–62, Cl. 179—1.

Civitano, Michael J. Fused outlet device and the like. 3,046,372, 7–24–62, Cl. 200—115.5.

Civitelli, Gennaro. Can opener or the like. 3,017,700, 1–23–62, Cl. 30—16.

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Cizek, Arthur, to Armour and Co. Corrosion inhibiting compositions and process. 3,047,510, 7–31–62, Cl. 252—136.

Cizek, Frank G. : *See—*
Tomka, Joseph W., and Cizek. 3,051,216.

Claas, Heinz : *See—*
Schoen, Hans, and Claas. 3,068,992.

Claes, Frans A. : *See—*
Gerbaux, Rene C., Lemmerling, and Claes. 3,045,006.

Claesgens, Johannes : *See—*
Jacobs, Heinz, Claesgens, and Heyn. 3,039,744.

Claessens, Dominique P. G. Folding perambulator. 3,070,385, 12–25–62, Cl. 280—37.

Claesson, Harry, to Allmänna Svenska Elektriska. Luffing crane mechanism. 3,062,383, 11–6–62, Cl. 212—58.

Claff, Clarence L., A. A. Crescenzi, and P. C. Hofstra. Membrane-type oxygenator. 3,060,934, 10–30–62, Cl. 128—214.

Clagett, Robert P., to Western Electric Co., Inc. Testing device for wire-wrapped terminal connections. 3,015,952, 1–9–62, Cl. 73—141.

Claiborne, Marshall L. Paraffin scraper. 3,044,552, 7–17–62, Cl. 166—170.

Clair, Jacques, to Pechiney, Compagnie de Produits Chimiques et Electrometallurgiques. Process and furnace for the continuous production of aluminum nitride. 3,032,398, 5–1–62, Cl. 23—192.

Clair, Verne, Jr., to Kelsey-Hayes Co. Rip tag opening means for sealed containers. 3,059,808, 10–23–62, Cl. 220—54.

Clairex Corp. : *See—*
Hester, Frank A. 3,043,921.

Claitor, Lilburn C. : *See—*
Schilling, Clarence J., and Claitor. Re. 25,193.
Schilling, Clarence J., and Claitor. 3,065,607.

Clamp, Melvin : *See—*
Bowler, Raymond M., and Clamp. 3,020,571.

Clampitt, Bert H., and D. E. German, to Boeing Airplane Co. Solar to electrical energy conversion system. 3,031,-523, 4–24–62, Cl. 136—89.

Clampitt, Lawrence L., and F. A. Zawada, to Raytheon Co. Magnetron end space designs. 3,041,497, 6–26–62, Cl. 315—39.77.

Clampitt, Lawrence L., and F. A. Zawada, to Raytheon Co. Magnetron strappings. 3,058,029, 10–9–62, Cl. 315—39.69.

Clancy, Douglas E. : *See—*
Montross, Eugene V., Clancy, and Brobst. 3,040,860.

Clancy, Hampton M. : *See—*
Metzler, Edward C., Jr., and Clancy. 3,030,260.

Clancy, John J., J. W. Rafferty, and R. C. Wells, to The Carter's Ink Co. Methods of making porous applicator structures. 3,019,201, 1–30–62, Cl. 260—2.5.

Clancy, Joseph A. : *See—*
Barber, Earle W., and E. W. Barber, Jr. 3,019,897.

Clanton, Albert R. : *See—*
Clanton, Raymond W., A. R. and H. L. 3,050,808.

Clanton, Hollis L. : *See—*
Clanton, Raymond W., A. R. and H. L. 3,050,808.

Clanton, Raymond W., A. R. and H. L., to Kaiser Steel Corp. Apparatus for making shell brick. 3,050,808, 8–28–62, Cl. 25—44.

Clapp, Fred L. Power driven fishing tackle. 3,049,829, 8–21–62, Cl. 43—6.5.

Clapp, John F., Jr., to The American Thermos Products Co. Valve construction. 3,053,274, 9–11–62, Cl. 137—512.

Clapp, Roger E., to Air Technology Corp. Receiving apparatus for radio frequency signals. 3,017,505, 1–16–62, Cl. 250—20.

Clapp, Robert J., N. E. Latham, and J. G. Stansbury, to Swedlow Inc. Process for forming of stretched sheet material. Re. 25,202, 7–17–62, Cl. 18—56.

Clapp, Robert J., and J. E. Jameson, to Swedlow Inc. Method for free forming of stretched sheet material. 3,020,596, 2–13–62, Cl. 18—56.

Clapp, Roy A., to Pako Corp. Photographic exposure reader. 3,049,969, 8–21–62, Cl. 88—24.

Clapp, Warren S., to E. I. du Pont de Nemours and Co. Process of vat dyeing. 3,051,541, 8–28–62, Cl. 8—34.

Clapper, Genung L., to International Business Machines Corp. Bistable transistor circuit. 3,025,415, 3–13–62, Cl. 307—88.5.

Clapper, Genung L., to International Business Machines Corp. Indexing registers for calculators. 3,037,700, 6–5–62, Cl. 235—157.

Clapper, Genung L., to International Business Machines Corp. Threshold counter with parallel inputs. 3,038,091, 6–5–62, Cl. 307—88.5.

Clapper, Genung L., to International Business Machines Corp. Synchronized system of oscillator drivers. 3,038,129, 6–5–62, Cl. 331—117.

Clapper, Genung L., to International Business Machines Corp. Synchronized gated transistor trigger circuit. 3,042,811, 7–3–62, Cl. 307—88.5.

Clapper, Genung L., to International Business Machines Corp. Transistor multiple count trigger with stepware generator gates. 3,046,413, 7–24–62, Cl. 307—88.5.

Clapper, Genung L., to International Business Machines Corp. Capacitor storage unit. 3,046,484, 7–24–62, Cl. 328—121.

Clapper, Genung L., to International Business Machines Corp. Amplitude discriminator circuit. 3,058,008, 10–9–62, Cl. 307—88.5.

Clar, Friedrich K., to Borsig Aktiengesellschaft. Control for rotary piston machines. 3,029,738, 4–17–62, Cl. 103—120.

Clar, Milton : *See—*
Filangeri, Anthony E., and Clar. 3,030,832.
White, John J., and Clar. 3,030,695.

Clarage Fan Co. : *See—*
Bowman, John H., and Zeluff. 3,054,288.

Claras, Carl W., and T. Wickstrom, to Revere Camera Co. (formerly Samica Corp.). Amplifier system for magnetic recorder-reproducer. 3,015,695, 1–2–62, Cl. 179—1.

Clare, C. P., Canada Ltd. : *See—*
Wedgewood, Robert S. 3,051,890.

Clare, C. P., & Co. : *See—*
Clare, Carl P. 3,060,291.
Juptner, Wilhelm. 3,033,956.
Koda, Arthur J. 3,028,390.
Koda, Arthur J. 3,038,976.
Morrison, Donald R. 3,031,550.

Clare, Carl P., to C. P. Clare & Co. Switching assembly. 3,060,291, 10–23–62, Cl. 200—87.

Clare, George. Bottle holder. 3,021,026, 2–13–62, Cl. 215—100.

Clare, George, to Claremould Plastics Co. Screw type pourer. 3,061,151, 10–30–62, Cl. 222—478.

Claremould Plastics Co. : *See—*
Clare, George. 3,061,151.

Clarey, John J., to Bristol-Myers Co. Lotion bottles and packages. 3,054,535, 9–18–62, Cl. 222—215.

Clarin Mfg. Co. : *See—*
Clarin, Werner E. 3,026,144.

Clarin, Werner E., to Clarin Mfg. Co. Kneeler for chairs. 3,026,144, 3–20–62, Cl. 297—425.

Clark, Albert R., and W. B. Clark. Storage and feeding apparatus. 3,024,922, 3–13–62, Cl. 214—16.

Clark, Alexander, 1/10 to Gadget-of-the-Month Club, Inc. Clogless tip for a dental amalgam carrier apparatus. 3,026,-616, 3–27–62, Cl. 32—60.

Clark, Alexander B., Jr. Seat structure. 3,053,569, 9–11–62, Cl. 297—111.

Clark, Alfred : *See—*
Holm, Vernon C. F., Bailey, and Clark. 3,045,054.

Clark, Alvin F. Clothes rack. 3,033,379, 5–8–62, Cl. 211—178.

Clark, Andrew J. : *See—*
Bach, Chester C., Clark, Drukker, Klenke, Lenk, and Runge. 3,016,448.

Clark, Aubrey L., 1/2 to N. C. Brewer, Jr. Fishing device. 3,024,560, 3–13–62, Cl. 43—17.

Clark, Austin S., and P. Boltz. High pressure device. 3,043,137, 7–10–62, Cl. 73—167.

Clark, Calvin M., to California Research Corp. Amplitude comparator circuit. 3,018,441, 1–23–62, Cl. 328—148.

Clark, Carlos S., to Burgess-Norton Mfg. Co. Method and apparatus for detecting flaws. 3,047,146, 7–31–62, Cl. 209—74.

Clark, Charles C., to Olin Mathieson Chemical Corp. Method of polymerizing diazomethane. 3,062,756, 11–6–62, Cl. 260—2.

Clark, Charles C., F. A. Kanda, and A. J. King, to Olin Mathieson Chemical Corp. Preparation of diborane. 3,017,248, 1–16–62, Cl. 23—204.

Clark, Charles C., F. A. Kanda, and A. J. King, to Olin Mathieson Chemical Corp. Preparation of diborane. 3,021,197, 2–13–62, Cl. 23—204.

Clark, Charles C., F. A. Kanda, and A. J. King, to Olin Mathieson Chemical Corp. Preparation of diborane. 3,022,138, 2–20–62, Cl. 23—204.

Clark, Charles C., F. A. Kanda, and A. J. King, to Olin Mathieson Chemical Corp. Preparation of diborane. 3,022,139, 2–20–62, Cl. 23—204.

Clark, Charles C., and R. W. Kulow, to Olin Mathieson Chemical Corp. Asphaltic composition. 3,030,219, 4–17–62, Cl. 106—123.

Clark, Charles M. Cooking device. 3,028,039, 4–3–62, Cl. 220—44.

Clark, Charles W., Jr., to Sweden Freezer Mfg. Co. Mobile dispensing freezer. 3,052,103, 9–4–62, Cl. 62—208.

Clark Controller Co., The : *See—*
Bundy, Oswald M. 3,045,092
Gauvreau, Alphonse P. 3,019,317.
Hoge, Robert H. 3,018,794.
Szabo, William F., Collings, and Cortelli. 3,032,146.
Zarleng, Steve A. 3,019,369.
Zarleng, Steve A. 3,019,379.
Zarleng, Steve A. 3,070,710.

Clark, Daniel O. : *See—*
Frankhouser, Frederick M., Clark, and Wearden. 3,065,997.

Clark, David, Co. Inc. : *See—*
Clark, David M. 3,030,945.
Clark, David M. 3,051,961.
Flagg, John E. 3,043,300.
Flagg, John E., and Cormier. 3,021,844.

Clark, David E.: *See*—
Flagg, John E., and Cormier. 3,026,227.
Gordon, Keith M., Clark, and Barnard. 3,023,604.
Clark, David M., to David Clark Co. Inc. Shutoff control valve for sphygmomanometer. 3,030,945, 4–24–62, Cl. 128—2.05.
Clark, David M., to David Clark Co. Inc. Ear protector and seal therefor. 3,051,961, 9–4–62, Cl. 2—209.
Clark, Donald E.: *See*—
Alburn, Harvey E., Grant, and Clark. 3,032,473.
Clark, Donald E., to General Electric Co. Inlet for vertical take-off aircraft. 3,033,491, 5–8–62, Cl. 244—23.
Clark, Donald E., to The Bendix Corp. Electronic speed responsive device. 3,049,879, 8–21–62, Cl. 60—39.14.
Clark, Donald E., to North American Aviation, Inc. Method for constructing an electrostatic shield. 3,063,135, 11–13–62, Cl. 29—155.57.
Clark, Earl D. Printer. 3,026,793, 3–27–62, Cl. 101—44.
Clark, Earl J., and J. A. Clements, to General Motors Corp. Automatic steering device. 3,029,885, 4–17–62, Cl. 180—1.
Clark, Earl K., to United States of America, Navy. Photoelectric proximity fuse mounting. 3,070,017, 12–25–62, Cl. 102—70.2.
Clark, Earl W., to General Electric Co. Electrical measuring instrument. 3,029,388, 4–10–62, Cl. 324—147.
Clark, Earl W. Thinning attachment for hair clippers. 3,060,573, 10–30–62, Cl. 30—201.
Clark, Earnest H., Jr., to Baker Oil Tools, Inc. Apparatus for automatically filling well conduits. 3,032,050, 5–1–62, Cl. 137—68.
Clark, Earnest H., Jr., to Baker Oil Tools, Inc. Subsurface well bore apparatus and setting tool therefor. 3,036,636, 5–29–62, Cl. 166—123.
Clark, Earnest H., Jr., to Baker Oil Tools, Inc. Automatically adjustable tubing anchor. 3,036,640, 5–29–62, Cl. 166—216.
Clark, Earnest H., Jr., and J. D. Keithahn, to Baker Oil Tools, Inc. Automatic fluid fill apparatus for subsurface conduit strings. 3,051,246, 8–28–62, Cl. 166—226.
Clark, Earnest H., Jr., and D. G. Campbell, to Baker Oil Tools Inc. Retrievable well apparatus. 3,054,452, 9–18–62, Cl. 166—134.
Clark, Earnest H., Jr., and W. D. Myers, to Baker Oil Tools, Inc. Convertible packer and tubing anchor. 3,055,431, 9–25–62, Cl. 166—140.
Clark, Earnest H., Jr., and J. D. Keithahn, to Baker Oil Tools Inc. Subsurface well tool control apparatus. 3,064,738, 11–20–62, Cl. 166—237.
Clark, Edward B., to General Electric Co. Fastening of insert in underfloor duct. 3,061,338, 10–30–62, Cl. 285—202.
Clark, Edward G., to Burroughs Corp. Shift register using bi-directional push-pull gates whose output is determined by state of associated flip-flop. 3,051,848, 8–28–62, Cl. 307—88.5.
Clark Equipment Co.: *See*—
Backofen, Elmer R. 3,016,046.
Colestock, Neil E. 3,069,756.
Cook, Charles A. 3,063,529.
Cook, Charles A., and Freitag. 3,048,247.
Dence, Donald S., and Deming. 3,024,885.
Dence, Donald S., and Metz. 3,017,006.
Drackett, Myron J., Jensen, and Johnson. 3,039,635.
Eaton, Ernest E. 3,031,898.
Erickson, Dennis E., and McKee. 3,031,091.
Felder, Howard B. 3,049,003.
Hasbany, Woodrow A. 3,023,773.
Hastings, Russell, Jr. 3,057,426.
Howard, Wayne R. 3,026,679.
Howard, Wayne R. 3,063,742.
Hoyt, Deryl R. 3,061,034.
Hoyt, Deryl R., and Stevens. 3,039,636.
Johnson, Glen R., and Rogers. 3,040,914.
Lapsley, Robert. 3,042,163.
Lauck, John A. 3,057,303.
Lauck, John A., and Bobnar. 3,046,902.
McAdams, Paul F. 3,018,573.
McAdams, Paul F. 3,032,135.
McAdams, Paul F., and Christensen. 3,023,024.
McAdams, Paul F., Ellis, and Christensen. 3,063,177.
Miller, James A. 3,025,723.
Mindrum, Kenneth H., and McKee. 3,039,633.
Owen, Thomas H. 3,063,112.
Peirce, Andrew W. 3,031,106.
Rogers, Cyril B., and Mindrum. 3,070,190.
Schenkelberger, Frank J. 3,039,266.
Stilley, Herschel H. 3,039,576.
Williamson, William A. 3,016,973.
Williamson, William A. 3,016,987.
Williamson, William A. 3,048,366.
Williamson, William A. 3,064,746.
Clark-Feather Mfg. Co.: *See*—
Clark, James T. 3,019,521.
Clark, James T. 3,038,247.
Clark, James T. 3,039,180.
Clark, James T. 3,065,579.
Clark, Francis A., and J. H. Vickers. Anti-skid tire. 3,062,255, 11–6–62, Cl. 152—211.
Clark, Francis E., and K. W. Newman, to Purex Corp., Ltd. Process for forming alkali alcholates of trialkanolamines. 3,053,897, 9–11–62, Cl. 260—584.
Clark, Frank C. Marine propulsion means. 3,055,175, 9–25–62, Cl. 60—35.55.
Clark, Frank M., to Blackburn Aircraft Ltd. Container for supplies for dropping from aircraft. 3,032,302, 5–1–62, Cl. 244—138.
Clark, Frederick L., to Bristol Siddeley Engines Ltd. Propulsion nozzles. 3,028,730, 4–10–62, Cl. 60—35.6.
Clark, Frederick L. Water skis. 3,015,830, 1–9–62, Cl. 9—310.
Clark, George C.: *See*—
Marion, Clyde E., Bartlett, and Clark. 3,043,386.
Clark, George L., and J. J. Hickey, to Space Technology Laboratories, Inc. Generation of trapezoidal pulse from ramp and rectangular waveforms using duo-diode shaping and combining circuit. 3,027,515, 3–27–62, Cl. 328—14.
Clark, Gerald A.: *See*—
Havens, Carl B., and Clark. 3,024,270.
Clark, Glen W., and J. M. Edelen. Snow removal device. 3,024,545, 3–13–62, Cl. 37—41.
Clark, Harlan C., to United States of America, Army. Latch type cartridge link. 3,031,934, 5–1–62, Cl. 89—35.
Clark, Harold A., to Dow Corning Corp. Stabilized organopolysiloxane resins. 3,032,529, 5–1–62, Cl. 260—46.5.
Clark, Harold R., to The Goodyear Tire & Rubber Co. Band building apparatus. 3,038,525, 6–12–62, Cl. 156—408.
Clark, Harold V., and D. B. MacLeod, to Ampex Corp. Tape apparatus synchronizing system. 3,017,462, 1–16–62, Cl. 178—69.5.
Clark, Harold V., and E. MacRae, to Ampex Corp. Recording and reproducing system and method. 3,031,535, 4–24–62, Cl. 179—100.2.
Clark, Harry C. Safety headlight switch. 3,047,771, 7–31–62, Cl. 315—83.
Clark, Harvey A.: *See*—
Courtright, George W. 3,065,015.
Clark, Homer E., Jr., to Alcan Co., Inc. Metal shotgun cartridge and method of producing same. 3,027,621, 4–3–62, Cl. 29—1.3.
Clark, Howard C. Calculator. 3,028,082, 4–3–62, Cl. 235—87.
Clark, Howard G., C. W. Plummer, and S. A. Hoffmann, to United States of America, Navy. Preparation of polynitro derivatives of methane. 3,067,261, 12–4–62, Cl. 260—644.
Clark, Howard G., and W. B. Black, to Monsanto Chemical Co. Activators for the polymerization of pyrrolidone. 3,069,392, 12–18–62, Cl. 260—78.
Clark, Hubert M., to Thompson Ramo Wooldridge, Inc. Variable displacement pump. 3,038,412, 6–12–62, Cl. 103—120.
Clark, Ivan F., to Ivan Clark Mfg. Co. Inner panel with combined armrest and handhold for vehicle doors. 3,015,516, 1–2–62, Cl. 296—44.
Clark, Ivan, Mfg. Co.: *See*—
Clark, Ivan F. 3,015,516.
Clark, J. L., Mfg. Co.: *See*—
Foster, John A. 3,038,633.
Clark, J. R., Co., The: *See*—
Best, Charles L., and Nielsen. 3,068,957.
Munson, Donald J. 3,016,976.
Munson, Donald J., and Nubson. 3,018,574.
Ridge, Leonard G. 3,069,719.
Clark, Jack W., to General Electric Co. Columbium base alloy. 3,056,672, 10–2–62, Cl. 75—174.
Clark, James A.: *See*—
Miller, Herbert J., Behles, and Clark. 3,054,633.
Clark, James A., and M. Krajowsky, to Bausch & Lomb Inc. Variable power spotting telescope. 3,028,791, 4–10–62, Cl. 88—32.
Clark, James B.: *See*—
Brumley, Corwin H., and Clark. 3,060,800.
Clark, James L. Bracelet. 3,020,657, 2–13–62, Cl. 40—21.
Clark, James L., to Mark-Clark Products, Inc. Identification bracelet. 3,020,658, 2–13–62, Cl. 40—21.
Clark, James L. Rotatable brazier. 3,033,189, 5–8–62, Cl. 126—25.
Clark, James R., to Soderhamn Machine Mfg. Co. Rotary wood chippers. 3,061,207, 10–30–62, Cl. 241—92.
Clark, James T., to Clark-Feather Mfg. Co. Cylinder head aligning means. 3,019,521, 2–6–62, Cl. 29—283.
Clark, James T., to Clark-Feather Mfg. Co. Pneumatic valve spring compressors. 3,038,247, 6–12–62, Cl. 29—215.
Clark, James T., to Clark-Feather Mfg. Co. Automotive valve tool. 3,039,180, 6–19–62, Cl. 29—219.
Clark, James T., to Clark-Feather Mfg. Co. Cylinder honing tool. 3,065,579, 11–27–62, Cl. 51—184.2.
Clark, James W., to Lake Shore, Inc. Skip. 3,052,367, 9–4–62, Cl. 214—741.
Clark, James W., to Lake Shore, Inc. Skip loading apparatus. 3,052,384, 9–4–62, Cl. 222—450.
Clark, James W., to Lake Shore, Inc. Skip with hydraulically operated dumping door. 3,061,128, 10–30–62, Cl. 214—741.
Clark, Jared W.: *See*—
Moore, Leonard O., and Clark. 3,055,913.
Clark, Jean H. Linear discriminator circuit. 3,024,421, 3–6–62, Cl. 329—142.
Clark, Jesse K., to Landers, Frary & Clark. Bracket assembly for thermostatic cookware. 3,037,107, 5–29–62, Cl. 219—44.
Clark, Joe H., L. Goldman, L. N. Starker, and J. K. Paul, to American Cyanamid Co. 1,1′-(hexafluoroglutaryl)-bis (4-phenylpiperazine). 3,047,576, 7–31–62, Cl. 260—268.

Clark, John: *See*—
Brinker, Harry F., and Clark. 3,038,394.
Clark, John B., to International Business Machines Corp. Magnetic transducer. 3,057,967, 10–9–62, Cl. 179—100.2.
Clark, John F. Method and apparatus for discharging an electric charge. 3,035,208, 5–15–62, Cl. 317—2.
Clark, John H. Clam shell tag line assembly. 3,036,724, 5–29–62, Cl. 214—657.
Clark, John R., to S. B. Penick and Co. 1-chloro-2-carbamyloxy-3(N-piperidino)-propane. 3,042,679, 7–3–62, Cl. 260—294.3.
Clark, John R., to S. B. Penick and Co. Chlorination rearrangement and products. 3,042,711, 7–3–62, Cl. 260—482.
Clark, John T. Diaphragm and method of making. 3,060,931, 10–30–62, Cl. 128—127.
Clark, John W.: *See*—
Hill, Harry N., Clark, and Woodburn. 3,051,217.
Clark, John W., R. F. Young, and C. B. Rawlins, to Aluminum Co. of America. Aeolian vibration dampers. 3,052,-747, 9–4–62, Cl. 174—42.
Clark, Joseph C. Fishing reel with combined positive and friction brake. 3,061,232, 10–30–62, Cl. 242—84.53.
Clark, Joseph C. Spin cast fishing reel. 3,062,474, 11–6–62, Cl. 242—84.2.
Clark, Julius. Hydraulic internal pipe line up clamp. 3,031,-994, 5–1–62, Cl. 113—102.
Clark, Kenneth W.: *See*—
Orchard, Peter F., and Clark. 3,034,297.
Clark, Leonard J.: *See*—
Payne, Kenneth J., and Clark. 3,032,696.
Clark, Lincoln, to Cities Service Research and Development Co. Hot water oil sand separation process. 3,052,621, 9–4–62, Cl. 208—11.
Clark, Marion D., and R. C. Ward, to Western Electric Co., Inc. Methods of and apparatus for testing and assorting electrical components. 3,028,959, 4–10–62, Cl. 209—81.
Clark, Murl W., and W. E. Roberts, to Caterpillar Tractor Co. Ejector for loader buckets. 3,035,724, 5–22–62, Cl. 214—140.
Clark, Orville A., J. L. Maxwell, and H. K. Thompson, to American Telephone and Telegraph Co. Permutation code selecting circuit. 3,068,031, 6 5–62, Cl. 178—53.1.
Clark, Patrick A., D. Stubbs, and D. G. Bloomfield, to Davy and United Engineering Co. Ltd. Thrust bearings. 3,015,528, 1–2–62, Cl. 308—231.
Clark, Patrick A., D. Stubbs, and D. G. Bloomfield, to Davy and United Engineering Co. Ltd. Anti-friction bearings. 3,020,108, 2–6–62, Cl. 308—203.
Clark, Paul D. Industrial sweeper. 3,048,868, 8–14–62, Cl. 15—79.
Clark, Peter F., and J. Wardleworth, to Imperial Chemical Industries Ltd. New phthalocyanine dyestuffs. 3,053,849, 9–11–62, Cl. 260—314.5.
Clark, Peter F., and G. A. Gamlen, to Imperial Chemical Industries Ltd. Reactive phthalocyanine dyestuffs. 3,053,-850, 9–11–62, Cl. 260—314.5.
Clark, Philip B., and D. W. Harling, to McGraw-Edison Co. Luminaire and refractor therefor. 3,062,953, 11–6–62, Cl. 240—25.
Clark, Ralph H., to Burroughs Corp. Method of making a liquid-filled synthetic resin structure and article obtained therefrom. 3,017,372, 1–16–62, Cl. 260—2.5.
Clark, Raymond C., to Penn Metal Co., Inc. Building construction and expansion joint therefor. 3,015,194, 1–2–62, Cl. 50—346.
Clark, Raymond D., to Eastman Kodak Co. Method of preparing β-lactones of 2,2,4,4,-tetraalkyl-3-hydroxy-3-butenoic acids by catalytic rearrangement of tetraalkyl-1,3-cyclobutanediols. 3,062,837, 11–6–62, Cl. 260—343.9.
Clark, Richard J., to General Electric Co. Boiler port viewing system. 3,021,386, 2–13–62, Cl. 178—6.
Clark, Richard U., to Hamilton Electronic Corp. Variable capacity trimmer condensers. 3,027,504, 3–27–62, Cl. 317—249.
Clark, Richard U. Unitary high torque resistant electrical terminals. 3,047,653, 7–31–62, Cl. 174—153.
Clark, Robert A., to Glenmore Distilleries Co. Strip stamp applying and squeezing mechanism. 3,049,166, 8–14–62, Cl. 156—489.
Clark, Robert B., and L. F. Perotte, to General Electric Co. Sheathed electrical conductors and insulation therefor. 3,031,522, 4–24–62, Cl. 174—102.
Clark, Robert E. D., to Fisher Scientific Co. Method for detecting and removing metallic cations from solutions. 3,027,239, 3–27–62, Cl. 23—230.
Clark, Robert E. D., to Fisher Scientific Co. Reagents derived from dithiol. 3,046,289, 7–24–62, Cl. 260—429.9.
Clark, Robert F.: *See*—
Bates, George W., and Clark. 3,054,949.
Clark, Robert H.: *See*—
Thompson, Thomas R., and Clark. 3,050,391.
Clark, Robert H., Co.: *See*—
Gordon, Leland S. 3,030,829.
Clark, Robert L.: *See*—
Rogers, Edward F., and Clark. 3,030,364.
Rogers, Edward F., and Clark. 3,030,365.
Rogers, Edward F., and Clark. 3,042,675.
Rogers, Edward F., and Clark. 3,042,677.
Clark, Robert L., and C. Ehmann, to Ward Leonard Electric Co. Electrical contactor. 3,054,872, 9–18–62, Cl. 200—104.
Clark, Robert L., and E. F. Rogers, to Merck & Co., Inc. 1-(4-amino-2-alkyl-5-pyrimidinylmethyl) piperazines. 3,060,-183, 10–23–62, Cl. 260—256.4.
Clark, Robert L., and E. F. Rogers, to Merck & Co., Inc. 1-(4 - amino - 2 - perfluoroalkyl-5-pyrimidinylmethyl)piperazines. 3,060,184, 10–23–62, Cl. 260—256.4.
Clark, Samuel C. Amusement device. 3,026,117, 3–20–62, Cl. 280—1.194.
Clark, Samuel K., and G. S. Kiester, to The Aro Corp. Suspension system for insulating containers. 3,032,231, 5–1–62, Cl. 220—15.
Clark, Sheldon L., and T. L. Heying, to Olin Mathieson Chemical Corp. Process for producing boron trichloride. 3,030,185, 4–17–62, Cl. 23—205.
Clark, Sheldon L., and D. A. Fidler, to Olin Mathieson Chemical Corp. Solid organoboron compound. 3,030,422, 4–17–62, Cl. 260—606.5.
Clark, Sheldon L., and D. A. Fidler, to Olin Mathieson Chemical Corp. Halogen containing organic derivatives of decaborane. 3,045,049, 7–17–62, Cl. 260—606.5.
Clark, Stevenson P.: *See*—
Niskin, Slade J. 3,044,811.
Clark, Stevenson P. Saildryer. 3,032,202, 5–1–62, Cl. 211—1.
Clark, Stevenson P. Dual wheel mounting. 3,039,825, 6–19–62, Cl. 301—36.
Clark, Stuart K. Optical system for mirror galvanometers. 3,045,535, 7–24–62, Cl. 346—109.
Clark, Wallace. Means for governing fluid pump in rotary well drilling rig. 3,043,380, 7–10–62, Cl. 175—26.
Clark, Walter L., III: *See*—
Akers, William T., Clark, and Whitehill. 3,066,071.
Clark, Walter L., III, to American Cyanamid Co. Cellulose ester coating composition. 3,066,033, 11–27–62, Cl. 106—169.
Clark, Weudall J., to Texaco Experiment Inc. Electric initiator. 3,043,223, 7–10–62, Cl. 102—70.2.
Clark, Wilfred. Stacking trays. 3,038,630, 6–12–62, Cl. 220—1.
Clark, William A., 50% to The Goodyear Tire & Rubber Co. and 50% to Skinner Engine Co. Rubber mixer. 3,041,659, 7–3–62, Cl. 18—2.
Clark, William B.: *See*—
Christenson, Howard W., Fisher, Schaefer, Clark, and Rains. 3,053,116.
Clark, Albert R. and W. B. 3,024,922.
Clark, William B. Rack unloader. 3,045,846, 7–24–62, Cl. 214—310.
Clark, William H., Jr.: *See*—
Bird, Robert S., O'Neill, and Clark. 3,034,292.
Clarke, Albert J. Jig for drilling dowel holes. 3,045,727, 7–24–62, Cl. 144—92.
Clarke-Built Ltd.: *See*—
Clarke, Frank J., and Goldsmith. 3,051,456.
Clarke, Chapman & Co. Ltd.: *See*—
Hutchinson, Myles. 3,018,999.
Clarke, Charles E., to Universal Packaging Corp. Box forming machine. 3,024,709, 3–13–62, Cl. 93—51.
Clarke, Daniel J., to The Stalker Corp. Fabrication of blade blanks. 3,057,393, 10–9–62, Cl. 153—33.
Clarke, Daniel J., and E. A. Stalker, to The Stalker Corp. Method of making hollow blades. 3,018,542, 1–30–62, Cl. 29—156.8.
Clarke, Daniel J., and E. A. Stalker, to The Stalker Corp. Fabrication of blades for compressors, turbines and the like. 3,045,327, 7–24–62, Cl. 29—156.8.
Clarke, Daniel J., and E. A. Stalker, to The Stalker Corp. Hollow blades and manufacture thereof. 3,045,967, 7–24–62, Cl. 253—77.
Clarke, David E.: *See*—
Arey, Ralph G., and Clarke. 3,042,776.
Clarke, Edward E.: *See*—
Phillips, Robert K., and Clarke. 3,030,610.
Clarke, Elliot. Telescopable member. 3,041,683, 7–3–62, Cl. 20—99.
Clarke, Eugene C., and H. A. Weyer, to Chambersburg Engineering Co. Ram control system. 3,048,019, 8–7–62, Cl. 60—97.
Clarke, Francis J., to Allegheny Ludum Steel Corp. Architectural finish. 3,051,080, 8–28–62, Cl. 101—32.
Clarke, Frank J., and T. L. Goldsmith, to Clarke-Built Ltd. Agitating device. 3,051,456, 8–28–62, Cl. 259—9.
Clarke, George C.: *See*—
Cline, Truman H., and Clarke. 3,033,188.
Clarke, Glenn E., and B. G. Laskey, to Benruth Engineering and Mfg. Co., Inc. Automobile warning device. 3,055,269, 9–25–62, Cl. 89—1.5.
Clarke, Gordon H.: *See*—
Hailey, Albert M., and Clarke. 3,016,526.
Clarke, Henry R., to International Business Machines Corp. Form handling apparatus. 3,062,531, 11–6–62, Cl. 271—4.
Clarke, Houghton W., 99% to Mealpach Corp. Covered dish and tray combination. 3,019,783, 2–6–62, Cl. 126—381.
Clarke, Jesse E., to Autoquip Corp. Method of making ram bearing. 3,061,887, 11–6–62, Cl. 18—59.
Clarke, John E.: *See*—
Hornig, Victor, and Clarke. 3,040,394.
Clarke, John V., Jr.: *See*—
Haney, Roy E. D., and Clarke. 3,045,119.
Clarke, John V., Jr., S. J. Metro, and J. O. Smith, Jr., to Esso Research and Engineering Co. Stabilized middle distillate fuels. 3,068,084, 12–11–62, Cl. 44—72.

Clarke, Ora W. Hydraulic shovel and loader. 3,027,029, 3–27–62, Cl. 214—501.

Clarke, Philip C., to Ametek, Inc. Spring counterbalance device for raising and lowering a weight. 3,039,318, 6–19–62, Cl. 74—95.

Clarke, Ralph E.: *See*—
Hagan, James J., Alblondi, and Clarke. 3,066,079.

Clarke, Rollin R., to The Patent Button Co. Adaptor for polishing pad. 3,056,988, 10–9–62, Cl. 15—230.

Clarke, Robert L., to Sterling Drug Inc. Derivatives of piperazine. 3,028,388, 4–3–62, Cl. 260—268.

Clarke, Robert L., to Sterling Drug Inc. 4-methyl-2-oxygenated-Δ3,5(10)-estratrienes and preparation thereof. 3,037,033, 5–29–62, Cl. 260—397.4.

Clarke, Robert L., and R. T. Mullins. Cold water means. 3,041,846, 7–3–62, Cl. 62—177.

Clarke, Walter W. H., to Her Majesty the Queen in right of Canada, as represented by the Minister of National Defense. Directional system for wave propagated signals. 3,042,916, 7–3–62, Cl. 343—100.

Clarke, William C., Jr., to Armco Steel Corp. Alloy steel and method. 3,069,257, 12–18–62, Cl. 75—126.

Clarkson, Alick, and D. W. Miller, to Vapor Heating Corp. Water tube boiler or steam generator. 3,051,146, 8–28–62, Cl. 122—249.

Clarkson, J. R., Co., The: *See*—
Clarkson, John R. 3,047,008.

Clarkson, Jack B.: *See*—
Barre, Wade E., and Clarkson. 3,018,575.

Clarkson, Jack B., to Sylvania Electric Products Inc. Socket. 3,049,689, 8–14–62, Cl. 339—17.

Clarkson, John R., to The J. R. Clarkson Co. Valve. 3,047,-008, 7–31–62, Cl. 137—315.

Clarkson, Robert J., to United States Rubber Co. Strand advancing apparatus and method. 3,058,681, 10–16–62, Cl. 242—47.09.

Clarkson (Textiles) Ltd.: *See*—
Bennison, Michael N. 3,034,458.

Clarostat Mfg. Co., Inc.: *See*—
Mucher, George J. 3,028,571.
Mucher, George J. 3,044,033.

Clary, Charles A., Sr. Metal awning. 3,061,002, 10–30–62, Cl. 160—62.

Clary Corp.: *See*—
Beall, William R. 3,036,292.
Boyden, Robert E., Scozzafava, and Stansell. 3,023,953.
Buescher, Wilbert G. 3,069,846.
Busch, Richard E. 3,034,692.
Busch, Richard E., and Christoff. 3,028,063.
Christoff, Chris A. 3,018,665.
Christoff, Chris A. 3,043,214.
Christoff, Chris A., and Gearheart. 3,058,638.
Conrad, Richard A. 3,040,217.
Doman, John F., Powell, and Christoff. 3,028,085.
Gearheart, John D. 3,067,997.
Oldenburg, Kenneth F. 3,051,380.
Oldenburg, Kenneth F., and Mark. 3,031,954.
Oldenburg, Kenneth F., and Schwend. 3,048,253.
Oldenburg, Kenneth F., and Schwend. 3,051,376.
Russell, Arthur G., and Clary. 3,033,416.
Schwend, Fred N. 3,017,080.
Schwend, Fred N. 3,028,080.
Scozzafava, Milton V., Linn, Busch, and Boyden. 3,017,-081.
Scozzafava, Milton V., Linn, Busch, and Boyden. 3,064,892.
Witt, Elwin O. 3,017,075.

Clary, Harry E., to Thompson Ramo Wooldridge Inc. Compressor control in automotive air conditioning system. 3,048,022, 8–7–62, Cl. 62—116.

Clary, Paul D., Jr.: *See*—
Peebles, David D., and Clary. 3,062,665.

Clasen, Claus J. W.: *See*—
Williams, Ray C., and Clasen. 3,024,743.

Clasen, Henry C. Combination flood and/or warning light. 3,034,098, 5–8–62, Cl. 340—81.

Clason, Bertil H., to General Motors Corp. Closed system resistance units. 3,018,457, 1–23–62, Cl. 338—39.

Clason, George F., to Scovill Mfg. Co. Closures for front openings in footwear. 3,059,352, 10–23–62, Cl. 36—50.

Classic Plastics, Inc.: *See*—
Parisi, Mauro. 3,058,506.

Clatot, Alfred, G. Lemoine, and A. Segal, to Societe d'Exploitation des Brevets CLS. Metal-shaping lubricant compositions and method. 3,021,594, 2–20–62, Cl. 29—424.

Clatterbuck, John C. Tree removing attachment for tractors. 3,057,599, 10–9–62, Cl. 254—132.

Claude, Janin L. Sound-absorbing and heat-resisting wall construction. 3,049,067, 8–14–62, Cl. 98—31.

Claudi-Magnussen, Finn, to General Aniline & Film Corp. Coated and laminated products, compositions for producing same and processes of employing such compositions. 3,034,946, 5–15–62, Cl. 156—332.

Claudius, Herbert: *See*—
Schreiber, Peter, and Claudius. 3,039,481.

Claudo Aktiebolag: *See*—
Nordstrand, Sven G. 3,064,683.
Stromberg, Henry. 3,064,941.

Claudon, Jean H. A., to Compagnie de Pont-A-Mousson. Devices for control of a gear box. 3,027,777, 4–3–62, Cl. 74—472.

Claudy, Harry N., to Phillips Petroleum Co. Chromatographic sampling system. 3,069,894, 12–25–62, Cl. 73—23.

Claus, Harry, to Ries G.m.b.H., Bekleidungsverschlussfabrik. Sliding clasp fastener. 3,057,030, 10–9–62, Cl. 24—205.13.

Claus, Karl M.: *See*—
Macdonald, Herbert G., Barbour, and Claus. 3,041,785.

Clause, John W.: *See*—
Ruscoe, William J., McPherson, and Clause. 3,052,589.

Clausen, Harvey W.: *See*—
Boswau, Hans P., and Clausen. 3,033,942.

Clausen, Sigurd, J. A. Neumair, and V. G. Hanson, to International Cigar Machinery Co. Toscani cigar machine. 3,033,210, 5–8–62, Cl. 131—29.

Clausing, Challiss I.: *See*—
Pokorny, Frank J., and Clausing. 3,028,527.

Clausing, Challiss I., to I-T-E Circuit Breaker Co. Trip system for high speed circuit breakers. 3,048,679, 8–7–62, Cl. 200—93.

Clausnitzer, Martin, and G. Geiseler, to Leuna-Werke Walter Ulbricht, VEB. Reactor vessel construction. 3,052,524, 9–4–62, Cl. 23—252.

Clauson, Walton E., and L. T. Zsoka, to Lockheed Aircraft Corp. Cushion material and method of making same. 3,055,785, 9–25–62, Cl. 154—54.

Clauss, Julius A., Jr.: *See*—
Bowen, Glen L., Lemon, and Clauss. 3,050,164.

Claussen, Gerard E.: *See*—
Jensen, Walter L., Phillips, and Claussen. 3,052,792.
Kennedy, Harry E., and Claussen. 3,023,302.
Shrubsall, Arthur E., Claussen, Schreiner, and Jackson. 3,031,345.

Clausen, Gerard E., to Union Carbide Corp. Silica-free welding flux. 3,023,301, 2–27–62, Cl. 219—74.

Claussen, Ole H., and H. H. Meyer, to E. I. du Pont de Nemours and Co. Apparatus for fluid treatment of tow and yarn bundles. 3,055,080, 9–25–62, Cl. 28—1.

Clavé, Marcel: *See*—
Clavé, Serge and M. 3,041,916.

Clavé, Serge and M. A focal optical device having a mounting providing protection against dangerous radiation. 3,041,916, 7–3–62, Cl. 88—1.

Clavé, Serge R., to Commissariat a l'Energie Atomique. Devices for protection against ionizing radiation and contamination by harmful dusts, for apparatus for observing the interior of sealed chambers. 3,052,151, 9–4–62, Cl. 88—1.

Clavel, Jean. Rotary electric switches. 3,053,956, 9–11–62, Cl. 200—166.

Clavell, Thomas W., to Fairchild Stratos Corp. Means for mounting a body on a rotating shaft. 3,019,039, 1–30–62, Cl. 287—53.

Clavell, Thomas W., to Fairchild Stratos Corp. Power plant. 3,019,776, 2–6–62, Cl. 123—21.

Claxton, Arlie W., to Minerals & Chemicals Philipp Corp. Paper coating composition. 3,063,854, 11–13–62, Cl. 106—213.

Claxton, David R. Means for supporting the inner member of a double walled tank. 3,021,027, 2–13–62, Cl. 220—15.

Clay-Adams, Inc.: *See*—
Bernstein, Richard K., and Goda. 3,034,509.

Clay, Arthur T., to Hetherington & Berner Inc. Dredge pump. 3,018,736, 1–30–62, Cl. 103—103.

Clay Equipment Corp.: *See*—
Smith, Erwin L. 3,049,094.

Clay, Eugene O. Stair climbing wheel chair. 3,049,364, 8–14–62, Cl. 280—211.

Clay, Eugene O. Screening device. 3,060,529, 10–30–62, Cl. 20—62.

Clay, Frederick E.: *See*—
Klassig, Henry, Pennie, and Clay. 3,018,185.

Clay, James H. Automatic centering caliper. 3,026,624, 3–27–62, Cl. 33—191.

Clay, Murray G., to The Baird Machine Co. Wire forming machines. 3,025,889, 3–20–62, Cl. 140—71.

Clay, Murray G., to The Baird Machine Co. Method of shaping wire stock. 3,025,890, 3–20–62, Cl. 140—71.

Clay, Murray G., to The Baird Machine Co. Wire forming mechanism with selectively operable forming tools. 3,025,-891, 3–20–62, Cl. 140—71.

Clay, Murray G. Wire guide for spring-coiling machines. 3,026,912, 3–20–62, Cl. 226—187.

Clay, Murray G., to The Baird Machine Co. Auxiliary tool-adjusting mechanism for wire-forming machines. 3,038,-505, 6–12–62, Cl. 140—71.

Clay, Nathan S., to Arrow Fastener Co., Inc. Stapler device or machine. 3,036,306, 5–29–62, Cl. 1—3.

Clay, Nathan S., to Arrow Fastener Co., Inc. Staplers. 3,056,963, 10–9–62, Cl. 1—3.

Clay, Richard H., to H. H. Robertson Co. Insulated fireproof building panel. 3,029,561, 4–17–62, Cl. 50—348.

Clay, Richard H., to H. H. Robertson Co. Insulated building panel. 3,064,772, 11–20–62, Cl. 189—34.

Clayborne, Norman F., to Railway Automation Miantenance Specialties Co. Magnetic tie plate lifter. 3,032,363, 5–1–62, Cl. 294—65.5.

Clayden, David O., to National Research Development Corp. Control arrangements for electrical digital computing engines. 3,059,850, 10–23–62, Cl. 235—157.

Claydon, Roy: *See*—
Bury, Harry, Claydon, and Smith. 3,018,631.

Claypoole, Stewart A., to Corning Glass Works. Method of separating devitrified glass seals. 3,058,323, 10–16–62, Cl. 65—17.

Clayton Aniline Co. Ltd., The: *See*—
Nicklin, Thomas, Sommerville, Brunner, and Isherwood. 3,035,889.

Clayton, Benjamin: *See*—
Thurman, Benjamin H. 3,038,486.

Clayton, Bruce L. Book and magazine holder. 3,041,776, 7–3–62, Cl. 45—85.

Clayton Corp. of Delaware, Inc., The: *See*—
Bucher, Lawrence E., Hug, and Eastin. 3,028,992.

Clayton Corp. of Delaware, The: *See*—
Rhodes, James L., and Hug. 3,036,743.

Clayton, Cyril R. Toilet pan seat units. 3,045,096, 7–17–62, Cl. 219—19.

Clayton Dewandre Co. Ltd.: *See*—
Farmery, George K., and Newman. 3,044,569.
Farmery, George K., and Page. 3,059,434.

Clayton, Erith T., to Peen Plate, Inc. Metal coating process. 3,023,127, 2–27–62, Cl. 117—109.

Clayton, Gladys L.: *See*—
Clayton, Gordon F. and G. L. 3,058,185.

Clayton, Gordon F. and G. L. Cable clamp. 3,058,185, 10–16–62, Cl. 24—135.

Clayton, James W. B., to T.M.M. (Research) Ltd. Stop mechanism for textile doubling and twisting machines. 3,032,962, 5–8–62, Cl. 57—83.

Clayton & Lambert Mfg. Co.: *See*—
Rautio, Laurie J. 3,043,453.

Clayton, Robert E.: *See*—
Hawley, Roger S., Clayton, and Buckley. 3,055,857.

Clayton, Robert L., Jr.: *See*—
Loeb, Leopold, Clayton, Koltum, Philips, Segal, and Takemura. 3,054,695.
Segal, Leon, Loeb, Tripp, and Clayton. 3,031,335.

Clayton, Robert L., Jr., and L. Loeb, to United States of America, Army. Treatment of textile materials for repellency to chemical warfare liquids. 3,068,125, 12–11–62, Cl. 117—161.

Clayton, William B., to Merrick Medicine Co. Container cleaning apparatus and method. 3,060,943, 10–30–62, Cl. 134—8.

Clayton, William G. Bobby pin spreader assembly. 3,016,058, 1–9–62, Cl. 132—1.

Clayton, William G. Spark plug adapter. 3,056,899, 10–2–62, Cl. 313—143.

Cleaner-Brooks Co.: *See*—
Gething, Frank. 3,056,389.

Cleaners Hanger Co.: *See*—
Came, George E., and Simmons. 3,047,031.

Cleanola Co., The: *See*—
Ball, Henry A. 3,027,869.

Clear Beam Antenna Corp.: *See*—
Raynor, Robert D. 3,041,024.
Raynor, Robert D. 3,045,240.

Clearfield, Abraham, to National Lead Co. Preparation of zirconyl chloride octahydrate. 3,057,678, 10–9–62, Cl. 23—85.

Clearman, Jack F., and G. R. Coss, to Whirlpool Corp. Ironing method and apparatus. 3,029,535, 4–17–62, Cl. 38—14.

Clearman, Marion J.: *See*—
Christensen, Byron C. 3,017,678.

Clearwaters, Walter L. Electrostrictive transducer. 3,043,-967, 7–10–62, Cl. 310—8.7.

Cleary, Dennis E. Barbecue post. 3,016,894, 1–16–62, Cl. 126—137.

Cleary, Frederick W.: *See*—
Van Atta, Lester C., and Cleary. 3,042,914.

Cleary, James W., to Phillips Petroleum Co. Curing of alkali terminated polymers. 3,048,568, 8–7–62, Cl. 260—79.

Cleary, Joseph F.: *See*—
Tannenbaum, Wesley, Cleary, and Ohlson. 3,043,919.

Cleary, Robert T., to Automatic Electric Laboratories, Inc. Trunk supervisory circuit. 3,041,404, 6–26–62, Cl. 179—18.

Cleary, Robert T., R. V. Burns, and R. F. Huckstadt, to Automatic Electric Laboratories, Inc. Loudspeaking telephone using transistors. 3,028,452, 4–3–62, Cl. 179—81.

Cleaver-Brooks Co.: *See*—
Craig, Glenn D., and Gething. 3,033,269.
Grobecker, Hugo H. 3,018,819.
Howe, Cyril A. 3,060,717.

Clee, William J. Quick detachable telescope gun sight. 3,029,516, 4–17–62, Cl. 33—50.

Cleek, Given W., and E. H. Hamilton, to United States of America, Navy. Infrared transmitting glasses. 3,022,182, 2–20–62, Cl. 106—52.

Cleereman, Oran R.: *See*—
Van Donk, Cornelius H., and Cleereman. 3,033,637.

Cleff, Peter H., to The Parson and Marine Engineering Turbine Research and Development Association. Means for generating involute gears. 3,060,642, 10–30–62, Cl. 51—32.

Clegg, Frank G., to Curtis 1000, Inc. Banking envelope. 3,043,493, 7–10–62, Cl. 229—72.

Clegg, Rue L. Excessive speed warning system for traffic control. 3,054,087, 9–11–62, Cl. 340—31.

Clejan, Deodat, to General American Transportation Corp. Freight transportation systems and methods. 3,016,025, 1–9–62, Cl. 105—368.

Clejan, Deodat, to General American Transportation Corp. Combination road and railway vehicles. 3,043,242, 7–10–62, Cl. 105—215.

Clejan, Deodat, to General American Transportation Corp. Fifth-wheel mechanisms for hitches carried by railway cars. 3,050,320, 8–21–62, Cl. 287—20.

Cleland, Charles E.: *See*—
Crane, Robert L., Cleland, and Whitmore. 3,034,779.

Cleland, Charles E., and E. N. Connoy, to Continental Machines, Inc. Apparatus for machining metal surfaces. 3,059,516, 10–23–62, Cl. 83—201.

Cleland, Marshall R., to Radiation Dynamics, Inc. Voltage multiplication apparatus. 2,063,000, 11–6–62, Cl. 321—15.

Cleland, Marshall R., and H. F. Malone, to Radiation Dynamics, Inc. Cathode heating apparatus. 3,027,486, 3–27–62, Cl. 315—36.

Cleland, William J., H. G. Henshall, A. N. Roper, J. M. Waring, and E. Seijo, to Shell Oil Co. Polymerization of vinyl aromatic compounds. 3,052,664, 9–4–62, Cl. 260—93.5.

Clemco Aero Products: *See*—
O'Connor, Bernard E. 3,023,741.

Clemco Aero Products, Inc.: *See*—
Chace, Richard A. 3,022,771.

Clemency, William F., to Bell Telephone Laboratories, Inc. Loud speaking telephone. 3,046,354, 7–24–62, Cl. 179—81.

Clemens, Carl. Noisemaking attachment for a bicycle. 3,029,553, 4–17–62, Cl. 46—175.

Clemens, David H., and W. D. Emmons, to Rohm & Haas Co. Process of producing alkylated polymethylol aminoplast condensates. 3,059,027, 10–16–62, Cl. 260—553.

Clemens, John E., R. A. Delabar, and J. D. Ray, to A. Kimball Co. Tag attaching machines. 3,025,054, 3–13–62, Cl. 271—44.

Clemens, John E., B. B. Johnstone, W. E. Kerris, and F. G. Wazelt. Ground speed-altitude indicator. 3,059,521, 10–23–62, Cl. 88—1.

Clemens, Richard A.: *See*—
Buier, John L., and Clemens. 3,049,934.

Clement, Ernest C. Carton forming apparatus. 3,065,679, 11–27–62, Cl. 93—51.

Clement, George H., to Hickok Mfg. Co., Inc. Display box. 3,044,605, 7–17–62, Cl. 206—45.14.

Clement, Hans H.: *See*—
De Shon, Roy F., and Clement. 3,056,529.

Clement, Milton A., to General Dynamics Corp. Toll ticketing trunk circuit. 3,047,664, 7–31–62, Cl. 179—7.1.

Clement, Milton A., to General Dynamics Corp. Telephone system including magnetic storage device. 3,051,789, 8–28–62, Cl. 179—7.1.

Clement, Warren F., and J. E. Zupanick, to Sperry Rand Corp. Pressure regulated gas generator. 3,023,574, 3–6–62, Cl. 60—39.13.

Clement, Warren F., and H. A. Rintoul, to Sperry Rand Corp. Angular velocity sensor. 3,023,625, 3–6–62, Cl. 73—502.

Clement, Warren F., R. E. Schaffer, and J. E. Zupanick, to Sperry Rand Corp. Temperature-corrected velocity sensor. 3,033,042, 5–8–62, Cl. 73—509.

Clement, Wolfgang, to International Standard Electric Corp. Method of sorting-out parts of insulating material. 3,020,409, 2–6–62, Cl. 250—106.

Clemente, Giuseppe. Method of forming a tooth crown. 3,057,069, 10–9–62, Cl. 32—12.

Clements, Albert, to Baldwin-Lima-Hamilton Corp. Two-speed drive for presses and the like. 3,037,602, 6–5–62, Cl. 192—87.

Clements, Francis S.: *See*—
Raper, Alan R., Clements, and Fothergill. 3,024,084.

Clements, Hilary B., to Golterman and Sabo, Inc. Wall panels and mounting means. 3,038,571, 6–12–62, Cl. 189—88.

Clements, John A.: *See*—
Clark, Earl J., and Clements. 3,029,885.

Clements, John A., and G. B. Meginnis, to General Motors Corp. Automatic parallel parking device. 3,029,884, 4–17–62, Cl. 180—1.

Clements, John A., and M. E. Wirth, to United States of America, Army. Lung-airway resistance meter. 3,036,569, 5–29–62, Cl. 128—2.

Clements, John E., and H. Heinrich, to Coty, Inc. Double channel plastic package. 3,028,000, 4–3–62, Cl. 206—47.

Clements, Stephen G., and E. H. Laithwaite, to The British Aluminium Co. Ltd. Metal sheeting. 3,047,111, 7–31–62, Cl. 189—86.

Clements, Walter J., and E. Rocke. Pump. 3,035,525, 5–22–62, Cl. 103—123.

Clements, William R., 24½ % to B. H. Becker, and 24½ % to R. L. Miron. Combination baseboard and anchoring device for a floor covering. 3,062,342, 11–6–62, Cl. 189—87.

Clements, Zayman C.: *See*—
Insolio, Thomas A., Magrini, Carini, and Clements. 3,018,587.

Cleminshaw, Douglas R., to R. E. Diety Co. Remote controlled spotlight. 3,035,160, 5–15–62, Cl. 240—4.2.

Cleminshaw, William T., and W. J. Gillet, to Parker-Hannifin Corp. Fuel injection nozzle. 3,024,045, 3–6–62, Cl. 285—21.

Clemmer, Richard R.: *See*—
Lucken, John M., and Clemmer. 3,045,374.
Clemmons, Ballard H.: *See*—
Browning, James S., and Clemmons. 3,028,008.
Clemons, Dale R., to Western Electric Co., Inc. Apparatus for fabricating parts from continuous stock. 3,031,003, 4–24–62, Cl. 153—2.
Clemons, Maurice M.: *See*—
Sehn, Francis J., and Clemons. 3,039,623.
Clemons, William G.: *See*—
Cline, William M., and Clemons. 3,019,038.
Clemson Agricultural College of South Carolina: *See*—
Brown, Hugh M. 3,018,659.
Clemson Bros., Inc.: *See*—
Kellogg, Charles T. 3,015,384.
Clemson, Maurice. Impact-responsive switch device. 3,022,-392, 2–20–62, Cl. 200—61.5.
Cleuard, Alfred E., A. E. Hawley, and E. A. Klein, to Hughes Aircraft Co. Electroplating fixture. 3,039,951, 6–19–62, Cl. 204—297.
Clepatch, Henry: *See*—
Morris, Lynwood L. 3,043,005.
Clerk, Robert C., to Gyreacta Transmission Ltd. Vehicle driving systems. 3,037,574, 6–5–62, Cl. 180—70.
Cleveland, Bill D., and W. K. Grubbs. Dispensing handle. 3,033,112, 5–8–62, Cl. 101—334.
Cleveland-Cliffs Iron Co., The: *See*—
Erck, Louis J., and Nummela. 3,067,957.
Erck, Louis J., Violetta, and Ban. 3,024,101.
Cleveland Container Co., The: *See*—
Stump, Paul W. 3,030,001.
Cleveland Controls, Inc.: *See*—
Gauvreau, Alphonse P. 3,065,319.
Cleveland Crane & Engineering Co., The: *See*—
Anderson, Ralph P., and Dehn. 3,031,950.
Cotesworth, Harry A., and Wakkila. 3,062,155.
Dehn, Roy F. 3,046,874.
Dehn, Roy F. 3,047,681.
Dehn, Roy F. 3,062,132.
Dehn, Roy F., and Ward. 3,052,200.
Gorjanc, Henry A. 3,046,909.
Gorjanc, Henry A. 3,062,333.
Cleveland Detroit Corp.: *See*—
Klamp, William. 3,057,987.
Cleveland Formgrader Co., The: *See*—
Robinson, Maurice E. 3,063,676.
Cleveland, Frank C., Jr.: *See*—
Kerr, Ralph W., and Cleveland. 3,021,222.
Cleveland, James L. Dowel hole drilling jig. 3,019,675, 2–6–62, Cl. 77—62.
Cleveland, Norman G., to International Business Machines Corp. Magnetic record processing apparatus. 3,059,266, 10–23–62, Cl. 15—308.
Cleveland Pneumatic Industries, Inc.: *See*—
Hamilton, Wallace, and Lovell. 3,016,623.
Hartel, Erwin H. 3,017,143.
Hartel, Erwin H. 3,017,172.
Hartel, Erwin H. 3,038,687.
Hartel, Erwin H. 3,062,485.
Westcott, William B., Jr. 3,017,170.
Westcott, William B., Jr. 3,027,122.
Westcott, William B., Jr. 3,027,123.
Westcott, William B., Jr. 3,055,170.
Cleveland Technical Center, Inc.: *See*—
Fredriks, Theodore R. 3,067,699.
Wetzel, Donald C. 3,041,748.
Cleveland Trencher Co., The: *See*—
Di Liddo, Andrew J., and Meyer. 3,037,307.
Jones, Milton G., and Tilscott. 3,037,309.
Meyer, Henry L., and Maran. 3,037,306.
Meyer, Henry L., Wilhelm, and Gregorczik. 3,022,584.
Penote, Vincent S. 3,037,305.
Penote, Vincent S., and Meyer. 3,054,199.
Wilhelm, Fred R., Gregorczik, and Meyer. 3,064,427.
Wilhelm, Fred R., Gregorczik, and Meyer. 3,064,681.
Cleveland Trust Co., The: *See*—
Frohlich, Adolf H., and Harris. 3,051,225.
Cleveland Vibrator Co., The: *See*—
Thomas, John W. 3,032,175.
Cleven, Antoon J., to North American Philips Co., Inc. Method of making grids for electron discharge tubes and a grid made by said method. 3,045,713, 7–24–62, Cl. 140—71.5.
Clevenger, Carl L., to General Motors Corp. Distributor. 3,027,433, 3–27–62, Cl. 200—30.
Clevenger, Carl L., to General Motors Corp. Distributor breaker lever. 3,037,096, 5–29–62, Cl. 200—19.
Clevenger, Clifton L. Retaining means for construction panels. 3,016,116, 1–9–62, Cl. 189—34.
Clever, Kathe Y. L.: *See*—
Clever, Otto. 3,068,931.
Clever, Otto, deceased, K. V. L. Clever, sole heir. Straightening apparatus. 3,068,931, 12–18–62, Cl. 153—93.
Cleverdon, Desmond, to General Cigar Co., Inc. Process and product utilizing tobacco stems. 3,043,723, 7–10–62, Cl. 131—17.
Clevite Corp.: *See*—
Abrams, Bernard W., and Freeder. 3,054,618.
Begun, Semi J., Paradowsky, and Gehman. 3,032,765.
Boswell, Vance F. 3,059,217.
Brown, Arling D., Jr. 3,054,109.
Carlson, Allan E., and Jost. 3,051,839.
Clevite Corp.: *See*—Continued
Faulk, Donald P., and Gerber. 3,051,919.
Goetzberger, Adolph. 3,041,214.
Gravley, Charles K. 3,054,606.
Hill, John. 3,025,978.
Hill, John, Phaneuf, and Fittz. 3,069,531.
Jost, Jacob M. 3,051,558.
Lungo, Antonio. 3,069,626.
Lynch, Thomas E. 3,054,371.
Lynch, Thomas E. 3,062,166.
Miller, Harry B. 3,066,233.
Pearlman, Alan R. 3,054,960.
Pomeranz, Daniel I. 3,026,424.
Shockley, William. 3,053,635.
Smith, Graydon, and Bailey. 3,034,036.
Smith, Graydon, and Bailey. 3,070,742.
Strong, Douglas H. 3,052,954.
Tack, William L. 3,061,919.
Wang, Chih-Chung. 3,021,188.
Wang, Chih-Chung. 3,035,959.
Williams, Alfred L. W., and Eastman. 3,039,007.
Williams, Alfred L. W., and Gravley. 3,052,949.
Winkler, Viktor. Goebbels, and Kramer. 3,025,738.
Clevite Harris Products, Inc.: *See*—
Fleming, Matthew J., Jr. 3,053,046.
Cliborn, Robert: *See*—
Angell, Pierce T., and Cliborn. 3,062,498.
Cliborn, Robert, to Thompson Ramo Wooldridge Inc. Injector discharge pressure regulator for pumps. 3,070,025, 12–25–62, Cl. 103—38.
Clickner, Earle D., to Shakespeare Co. Level wind fishing reel. 3,018,979, 1–30–62, Cl. 242—84.21.
Clifford, Alan F., to Monsanto Chemical Co. Method of selectively absorbing hydrogen fluoride from gases containing hydrogen fluoride and sulfur dioxide. 3,016,285, 1–9–62, Cl. 23—2.
Clifford, Alan F., and R. Perry, Jr., to Monsanto Chemical Co. Purification of sulfuric acid. 3,059,994, 10–23–62, Cl. 23—172.
Clifford, Alfred T., and A. J. Owens, to Riegel Textile Corp. Changeable color textile fabric and process for causing color to change. 3,030,227, 4–17–62, Cl. 117—62.
Clifford, Edward L., and V. L. Redding, to Jersey Production Research Co. Method for distinguishing multiple reflections in seismic observations. 3,059,718, 10–23–62, Cl. 181—5.
Clifford, Eugene B., and T. T. Yarze, to Western Electric Co., Inc. Apparatus for feeding articles. 3,034,633, 5–15–62, Cl. 198—33.
Clifford, George F., to Jersey Creme Holdings Pty. Ltd. Soft ice-cream machines. 3,050,960, 8–28–62, Cl. 62—342.
Clifford, Jack. Method and apparatus for the repair of tubeless tires. 3,029,671, 4–17–62, Cl. 81—15.7.
Clifford, John E., and C. L. Faust, to United States Steel Corp. Method and apparatus for making a tapered thread. 3,051,638, 8–28–62, Cl. 204—143.
Clifford, Robert A.: *See*—
Agron, Albert, and Clifford. 3,040,287.
Clifford, Robert D.: *See*—
Olson, David C., and Clifford. 3,066,950.
Clifford, Svea M.: *See*—
Minella, Angelo. 3,015,501.
Clifford, Warren E., to United States of America, Atomic Energy Commission. Catalyzed oxidation of uranium in carbonate solutions. 3,036,881, 5–29–62, Cl. 23—14.5.
Clifford, Warren E., to American Potash & Chemical Corp. Recovery of tungsten from brine. 3,065,047, 11–20–62, Cl. 23—22.
Clift, Gilbert B.: *See*—
McGay, John B., and Clift. 3,034,535.
Clift, Thomas H., Jr. Collapsible shelter. 3,028,871, 4–10–62, Cl. 135—1.
Clifton, John R., and A. D. Nolan, to Coleman Engineering Co., Inc. Fail-safe control for fluid pressure actuators. 3,026,850, 3–27–62, Cl. 121—40.
Clifton Precision Products Co., Inc.: *See*—
Glass, John P., and Zaic. 3,022,946.
Glass, John P., and Zaic. 3,027,076.
Climps Ltd.: *See*—
Housley, Edward, and Burford. 3,064,848.
Clinalysis, Inc.: *See*—
Saifer, Abraham, and Kopp. 3,033,656.
Cline, Austin R.: *See*—
Turner, James R., and Cline. 3,070,434.
Cline, Carl E., and C. E. Cook, to General Motors Corp. Refrigerating apparatus. 3,035,504, 5–22–62, Cl. 98—40.
Cline, Earl E., to Ernest Holmes Co. Wreckers. 3,024,918, 3–13–62, Cl. 212—8.
Cline, Edward T., to E. I. du Pont de Nemours and Co. Process for chemically bonding a coating to an organic polymer substrate. Re. 25,164, 5–1–62, Cl. 117—62.
Cline, Edward T., and D. Tanner, to E. I. du Pont de Nemours and Co. Selected graft polymers and their preparation. 3,068,122, 12–11–62, Cl. 117—138.8.
Cline, Edwin L.: *See*—
Sturrock, Murray G., Cline, Robinson, and Lovin. 3,016,401.
Cline, Florence T.: *See*—
Burgin, Kermit H. 3,046,735.
Cline, Frederick B.: *See*—
Burgin, Kermit H. 3,046,735.

Cline, John C.: *See*—
Hradel, Joseph R., and Cline. 3,021,785.
Cline, Kermit R. Stall structure. 3,059,616, 10–23–62, Cl. 119—14.03.
Cline, Oliver I., Jr., to Devoe and Raynolds Co., Inc. Water resistant carboxy-epoxy aqueous coating compositions. 3,069,376, 12–18–62, Cl. 260—29.6.
Cline, Robert A., and E. Levy, to Walter Kidde & Co., Inc. Condition monitoring device. 3,022,390, 2–20–62, Cl. 200—38.
Cline, Russell S. Clock stopping game. 3,052,471, 9–4–62, Cl. 273—1.
Cline, Teddy L. Seed bed forming device. 3,023,717, 3–6–62, Cl. 111—81.
Cline, Theodore B. Machine for de-stringing chains of link meat products. 3,026,561, 3–27–62, Cl. 17—1.
Cline, Theodore E. Car top boat loader. 3,042,240, 7–3–62, Cl. 214—450.
Cline, Truman H., and G. C. Clarke, to Sears, Roebuck and Co. Cooking range. 3,033,188, 5–8–62, Cl. 126—19.
Cline, William M., and W. G. Clemons, to Aeroquip Corp. Fitting. 3,019,038, 1–30–62, Cl. 285—243.
Clinefelter, James W. Plastic extruding machine. 3,018,516, 1–30–62, Cl. 18—14.
Clinefelter, James W. Perforated unit for plastic extruding machines. 3,018,807, 1–30–62, Cl. 146—174.
Clinehens, Richard M.: *See*—
Anderson, John R., and Clinehens. 3,042,997.
Haber, Harold E., and Clinehens. 3,031,648.
Clingensmith, Archie H. Tuyere assembly. 3,015,481, 1–2–62, Cl. 266—41.
Clingman, Paul E., and C. A. Lowe, to General Motors Corp. Curing form. 3,016,567, 1–16–62, Cl. 18—6.
Clingman, William H., Jr.: *See*—
Jennings, Joseph F., and Clingman. 3,062,905.
Clingman, William H., Jr., to Standard Oil Co. Chemical conversions and reactions. 3,067,115, 12–4–62, Cl. 204—154.
Cling-Surface Co.: *See*—
Parker, Gordon N. 3,021,037.
Clinkenbeard, Lewis S. Drilling attachment. 3,065,656, 11–27–62, Cl. 77—64.
Clinton, Edward J., Jr.: *See*—
Troeger, Henry, and Clinton. 3,048,364.
Clinton, Edwin T., and M. Kramcsak, Jr., to The Bassick Co. Caster brake and lock. 3,066,764, 12–4–62, Cl. 188—74.
Clinton, Henry H., to C-E-I-R, Inc. Wave signal receiver monitor. 3,029,418, 4–10–62, Cl. 340—202.
Clinton, Henry H., to C-E-I-R, Inc. Wave signal receiver monitor. 3,029,419, 4–10–62, Cl. 340—203.
Clinton, Raymond O., to Sterling Drug Inc. 16-aminomethylene-17-oxo steroids and preparation thereof. 3,030,357, 4–17–62, Cl. 260—239.5.
Clinton, Raymond O., to Sterling Drug Inc. 17-cyano-17-oxy-steroids and 17-aminomethyl-17-oxy-steroids. 3,055,921, 9–25–62, Cl. 260—297.45.
Clinton, Raymond O., and R. G. Christiansen, to Sterling Drug Inc. Therapeutic compositions containing 17α-methyl-4,6-androstadien-17β-ol-3-one. 3,033,752, 5–8–62, Cl. 167—74.
Clinton, William P., and E. Pitchon, to General Foods Corp. Producing a stable coffee aroma product. 3,021,218, 2–13–62, Cl. 99—71.
Clinton, William P., R. S. Perry, and E. Pitchon, to General Foods Corp. Process for packaging powdered, soluble coffee. 3,039,882, 6–19–62, Cl. 99—189.
Clipper Mfg. Co.: *See*—
Janowitz, Robert. 3,057,274.
Clipper Propeller, Inc.: *See*—
Jefferson, Donald M. 3,044,556.
Clippinger, Everett: *See*—
Levine, Irving E., and Clippinger. 3,018,308.
Cloninger, Lamar C.: *See*—
Arnesen, Frederick M., and Cloninger. 3,035,010.
Walles, Wilhelm E., Tousignant, and Cloninger. 3,067,-143.
Cloots, Henry R., to Kimberly-Clark Corp. Method of packaging compressible articles. 3,035,379, 5–22–62, Cl. 53—34.
Clopay Corp.: *See*—
Collins, Solomon M. Re. 25,112.
Clor, Paul A. Finger printing system. 3,064,301, 11–20–62, Cl. 15—506.
Clorfeine, Alvin, to Polarad Electronics Corp. Variable attenuator for small wavelength radiation. 3,066,576, 12–4–62, Cl. 88—61.
Clorox Co., The: *See*—
Melrose, Richard E. 3,047,417.
Close, Donald K.: *See*—
Barbeau, Raymond A., and Close. 3,064,885.
Close, Egbert B., and J. A. Patenaude, to C & P Phono-products, Inc. Record holder and viewer. 3,039,202, 6–19–62, Cl. 35—8.
Close, Richard N., to United States of America, Air Force. Feedback amplifier type detector circuit. 3,028,504, 4–3–62, Cl. 307—33.
Close, Richard N., to United States of America, Army. Automatic track-while-scan channel. 3,064,250, 11–13–62, Cl. 343—7.3.
Close, Richard N., to Cutler-Hammer, Inc. Signal translation system with interconnected channels. 3,065,420, 11–20–62, Cl. 325—3.
Close, Warren J., to Abbott Laboratories. Manufacture of 4-amino-2-chloro-5-(methyl-sulfamyl) benzenesulfonamide. 3,052,695, 9–4–62, Cl. 260—397.7.
Close, William D. Rotary engine. 3,057,157, 10–9–62, Cl. 60—39.63.
Closson, Rex D.: *See*—
Cofield, Thomas H., and Closson. 3,042,693.
Closson, Rex D., and T. H. Clofield, to Ethyl Corp. Organometallic compounds. 3,029,266, 4–10–62, Cl. 260—429.
Closz, Henry L. Printing gauges for platen presses. 3,052,-184, 9–4–62, Cl. 101—115.
Cloud, Charles E. Enfolding self-clinging film. 3,024,581, 3–13–62, Cl. 53—28.
Cloud, Robert W., to High Voltage Engineering Corp. Charging system for electrostatic generators. 3,048,720, 8–7–62, Cl. 310—5.
Cloud, William W. Electrical resistor. 3,041,566, 6–26–62, Cl. 338—32.
Cloudsley, Alex G., to The L. I. Snodgrass Co. Lined bag. 3,038,551, 6–12–62, Cl. 229—55.
Clough, Carroll C. Tank head dishing mechanism. 3,022,757, 2–27–62, Cl. 113—44.
Clough, Harry, to Imperial Chemical Industries Ltd. Stabilisation of phenols. 3,019,269, 1–30–62, Cl. 260—620.
Clough, Minnie S. Dust pan. 3,056,992, 10–9–62, Cl. 15—257.3.
Clough, Philip J. *See*—
Allen, Lloyd R., Baer, and Clough. 3,049,421.
Baer, Charles A., Clough, and Steeves. 3,016,873.
Baer, Charles A., Clough, and Steeves. 3,063,865.
Cerych, John Z., Clough, and Steeves. 3,029,777.
Cerych, John Z., Clough, and Steeves. 3,065,958.
Clough, Philip J., to National Research Corp. Method and apparatus for vacuum coating metallic substrates. 3,043,-715, 7–10–62, Cl. 117—107.
Clouse, Frank S. Fuel heating device. 3,019,325, 1–30–62, Cl. 219—38.
Clouthier, Robert L.: *See*—
Estephanian, Estephan D., Packard, Clouthier, and Bontillette. 3,020,740.
Cloutier, J. T., Inc.: *See*—
Cloutier, Jean T., and Boucher. 3,065,507.
Cloutier, Jean T., and C. Boucher, to J. T. Cloutier, Inc. Double hung sashless window construction. 3,065,507, 11–27–62, Cl. 20—52.
Cloverdale Plywood Co.: *See*—
Rothrock, Clarence L. Re. 25,296.
Clow, James B., and Sons, Inc.: *See*—
Bevington, William J. 3,051,200.
Clowd, Inc.: *See*—
Shapiro, Lawrence S. 3,023,305.
Club Razor Corp.: *See*—
Holohan, Bartholomew A. 3,052,374.
Cluck, Howard O., and T. G. Harris. Tow line handle and signal assembly for water skiers. 3,018,474, 1–23–62, Cl. 340—366.
Cluett, Peabody & Co., Inc.: *See*—
Hilton, Thomas I. 3,052,281.
Miller, Myron M., McFalls, and Huntley. 3,031,679.
Pfeffer, Edward C., Jr. 3,026,199.
Pfeffer, Edward C., Jr. 3,059,923.
Clukey, Rodney W., to Sylvania Electric Products Inc. Testing and sorting apparatus. 3,032,191, 5–1–62, Cl. 209—75.
Clune, William H.: *See*—
Elwood, Francis E., Clune, and Schaub. 3,033,689.
Clunie, John C., and E. L. Tollefson, to Canadian Chemical Co., Ltd. Purification of crude pentaerythritol. 3,066,-171, 11–27–62, Cl. 260—637.
Clupak, Inc.: *See*—
Beachler, Edward D. 3,035,512.
Welsh, Hewit S. 3,035,465.
Clute, Francis E., to J.E.T. Pellet Mill Corp. Air-flow material separator. 3,042,203, 7–3–62, Cl. 209—144.
Clute, Francis H. Foldable stadium chair. 3,066,980, 12–4–62, Cl. 297—252.
Cluwen, Johannes M.: *See*—
De Miranda, Heine A. R., Cluwen, and Tulp. 3,038,084.
Cluwen, Johannes M., to North American Philips Co., Inc. Circuit arrangement for limiting electrical signal oscillations. 3,047,740, 7–31–62, Cl. 307—88.5.
Clyde Paper Co. Ltd.: *See*—
Sneddon, Thomas. 3,018,515.
Clymer, Frederick H.: *See*—
Lake, Irving Y., and Clymer. 3,032,174.
Clynch, Frank. System for anchoring and transporting a seismic vibrator. 3,024,861, 3–13–62, Cl. 181—.5.
Clynch, Frank, and G. J. Hanggi, to Continental Oil Co. Vibrator with hydraulically controlled eccentricity. 3,059,-483, 10–23–62, Cl. 74—61.
Clyne, Joseph, to Flexsleev, Inc. Snap fasteners. 3,050,805, 8–28–62, Cl. 24—214.
Cnudde, Maurice F. Pulley for a conveyor belt. 3,016,235, 1–9–62, Cl. 263—8.
Coady, Harry A., to The Joseph Dixon Crucible Co. Stopper rod assemblies. 3,040,400, 6–26–62, Cl. 22—85.
Coakley, Alfred J.: *See*—
Booth, Weldon S., and Coakley. 3,068,656.

Coal Industry (Patents) Ltd.: *See*—
Critchley, Octavius H., Barron, and Kellet. 3,052,116.
Hirst, Arthur A., and Burns. 3,058,488.
Coalite and Chemical Products Ltd.: *See*—
Bondy, Herbert F., and Gumb. 3,022,331.
Coan, Richard L., to Cerro Corp. Machine for deburring the ends of tubes and the like. 3,045,268, 7–24–62, Cl. 15—88.
Coanda, George, to Don Baxter Inc. Mask. 3,042,035, 7–3–62, Cl. 128—146.
Coanda, George, to Don Baxter, Inc. Catheter for an administration set. 3,064,653, 11–20–62, Cl. 128—348.
Coanda, Henri, to Sebac Nouvelle S.A. Device for imparting movement to gases. 3,047,208, 7–31–62, Cl. 230—95.
Coanet, Guy M. High speed printing machines. 3,030,882, 4–24–62, Cl. 101—93.
Coar, Richard J., to United Aircraft Corp. Turbofan afterburner fuel control. 3,041,826, 7–3–62, Cl. 60—35.6.
Coash, Robert E., and A. B. Kendall, to Rack Specialists, Inc. Load shifting device. 3,050,205, 8–21–62, Cl. 214—514.
Coast Metals, Inc.: *See*—
Cape, Arthur T. 3,035,934.
Cape, Arthur T. 3,060,017.
Coates Bros. & Co. Ltd.: *See*—
Timson, Ernest A., and Mathews. 3,057,610.
Coates, Cecil H. Display device. 3,055,510, 9–25–62, Cl. 211—164.
Coates, Eugene A. Combination land and air vehicle. 3,026,066, 3–20–62, Cl. 244—12.
Coates, Gordon M. Contractible ring having a detachable shank. 3,021,697, 2–20–62, Cl. 63—15.45.
Coates, Graham, and T. G. Bryant, to A.E.I.-John Thompson Nuclear Energy Co. Ltd. Improvements relating to locking arrangements for nuclear reactor fuel elements. 3,057,793, 10–9–62, Cl. 204—193.2.
Coates, Harold, and P. A. T. Hoye, to Albright & Wilson (Mfg.) Ltd. Tris-aminomethylphosphines. 3,035,053, 5–15–62, Cl. 260—247.5.
Coates, Harold, and P. A. T. Hoye, to Albright and Wilson (Mfg.) Ltd. Substituted organic phosphine derivatives. 3,037,978, 6–5–62. Cl. 260—247.5.
Coates, Harold, and J. J. Lawless, to Albright & Wilson (Mfg. Ltd. Manufacture of substituted organic phosphine derivatives. 3,050,522, 8–21–62, Cl. 260—249.6.
Coates, Herbert W., and R. A. Fraie, to Celanese Corp. of America. Non-woven products. 3,063,454, 11–13–62, Cl. 128—290.
Coates, Roy K., and C. D. Howard. Computer. 3,042,295, 7–3–62, Cl. 235—61.
Coates, Vincent J., to The Perkin-Elmer Corp. Radiation dispersion system. 3,052,795, 9–4–62, Cl. 250—43.5.
Coates, Vincent J., to The Perkin-Elmer Corp. Recorder scale expansion system. 3,063,043, 11–6–62, Cl. 340—187.
Coates, Vincent J., and L. B. Scott, to The Perkin-Elmer Corp. Radiation comparison systems. 3,039,353, 6–19–62. Cl. 88—14.
Coates, William H., and J. Hayden, to British Titan Products Co. Ltd. Apparatus for the distribution of gases. 3,057,701, 10–9–62, Cl. 23—284.
Coats & Clark Inc.: *See*—
Morin, Louis H. 3,022,560.
Morin, Louis H. 3,046,628.
Morin, Louis H. 3,055,069.
Morin, Louis H. 3,055,166.
Morin, Louis H. 3,065,519.
Morin, Louis H. 3,070,948.
Morin, Louis H., and Gries. 3,018,519.
Coats Co., Inc., The: *See*—
Foster, James R. 3,039,519.
Foster, James R. 3,042,090.
Foster, James R. 3,056,449.
Coats, Darrel W. Combination cigarette package and lighter. 3,069,886, 12–25–62, Cl. 67—7.1.
Cobaugh, Robert F., to AMP Inc. High tensile splice. 3,052,750, 9–4–62, Cl. 174—94.
Cobaugh, Robert F., and F. W. Wahl, to AMP Inc. Dies for crimping tool. 3,018,816, 1–30–62, Cl. 153—1.
Cobb Chemical Laboratories: *See*—
Major, Randolph T., and Ohly. 3,027,407.
Cobb, Clifton A.: *See*—
Platt, Clark L, and Cobb. 3,040,552.
Cobb, Clifton A., E. E. Wiessner, and C. A. Orr, to Whirlpool Corp. Self-cleaning filter for laundry machine. 3,016,147, 1–9–62, Cl. 210—275.
Cobb, Clifton A., C. A. Orr, and W. F. Robandt, Jr., to Whirlpool Corp. Home appliance. 3,019,814, 2–6–62, Cl. 137—607.
Cobb, Clifton A., C. A. Orr, and Wm. F. Robandt, Jr., to Whirlpool Corp. Mixing valve for home appliance. 3,045,696, 7–24–62, Cl. 137—607.
Cobb, Clifton A., and J. T. Williams, to Whirlpool Corp. Washing machine having liquid level control means. 3,065,618, 11–27–62, Cl. 68—12.
Cobb, Cyril A.: *See*—
Gary, John E., and Cobb. 3,056,182.
Cobb, David A., to International Harvester Co. Two-way check valve for pumps and the like. 3,059,665, 10–23–62, Cl. 137—512.
Cobb, George. Automatic garage light. 3,061,758, 10–30–62, Cl. 315—84.
Cobb, George R., to Banco Telephone Co., Inc. Sterile telephone. 3,040,138, 6–19–62, Cl. 179—185.
Cobb, James S., to E. I. du Pont de Nemours and Co. Spinneret production. 3,017,789, 1–23–62, Cl. 76—107.
Cobb, John, C. M. Rice, W. L. Ross, and K. W. Sauer, to American Radiator and Standard Sanitary Corp. Neutronic reactor. 3,042,595, 7–3–62, Cl. 204—154.2.
Cobb, John F.: *See*—
Stone, Ralph D., and Cobb. 3,038,176.
Cobb, Leland D., to General Motors Corp. Method of assembling a self-aligning bearing. 3,068,551, 12–18–62, Cl. 29—149.5.
Cobb, Lynn M. Single phase brushless motor. 3,054,916, 9–18–62, Cl. 310—154.
Cobb, Neal L., to The Fellows Gear Shaper Co. Variable feed and speed mechanism for gear shaping machines and the like. 3,021,765, 2–20–62, Cl. 90—7.
Cobb, Phara L., Jr., to Eastman Kodak Co. Nonchanneling tobacco smoke filament filter. 3,025,861, 3–20–62, Cl. 131—208.
Cobb, Raymond L., to Phillips Petroleum Co. Separation of isomers of tolylene diisocyanate. 3,022,328, 2–20–62, Cl. 260—553.
Cobb, Raymond L., and P. S. Hudson, to Phillips Petroleum Co. Reaction product of a polyhydroxy compound and a polyisocyanate in the presence of a vinyl-substituted heterocyclic nitrogen base. 3,050,482, 8–21–62, Cl. 260—23.
Cobb, William E., to Greaves & Thomas Ltd. Chairs. 3,016,265, 1–9–62, Cl. 297—88.
Cobble, William H., and F. A. Martin. Rod bending machine. 3,027,929, 4–3–62, Cl. 153—20.
Cobbold, Richard S. C., to Her Majesty the Queen in right of Canada as represented by the Minister of National Defence. Current switch comprising complementary transistors. 3,030,525, 4–17–62, Cl. 307—88.5.
Cobbold, Richard S. C., to Her Majesty the Queen in right of Canada as represented by the Minister of National Defence. Transistor emitter follower with saturation control means. 3,053,997, 9–11–62, Cl. 307—88.5.
Cobean, Richard W., to General Electric Co. Condition responsive electric switch mechanism. 3,065,320, 11–20–62, Cl. 200—140.
Cobel, George B.: *See*—
Teitel, Robert J., and Cobel. 3,069,256.
Cobel, George B., and P. R. Jeknisess, to The Dow Chemical Co. Calcium metal production. 3,043,756, 7–10–62, Cl. 204—69.
Coberly, Clarence J., to Wulff Process Co. Regenerative furnace and process of operating. 3,024,094, 3–6–62, Cl. 23—277.
Coberly, Clarence J., to Kobe, Inc. Standing valve for free well pump. 3,041,981, 7–3–62, Cl. 103—229.
Coberly, Clarence J., and R. F. McArthur, to Kobe, Inc. Gas anchor with pilot operated control valve. 3,025,798, 3–20–62. Cl. 103—46.
Coberly, Clarence J., and V. Kogut, to Kobe, Inc. Fluid operated pump with separate, aligned pump and engine valve units. 3,034,442, 5–15–62, Cl. 103—46.
Coberly, Clarence J., and V. Kogut, to Kobe, Inc. Counterflow free pump system. 3,059,581, 10–23–62, Cl. 103—46.
Coberly, Ernest K., Jr. Disposable sun and rain shield. 3,042,052, 7–3–62, Cl. 135—16.5.
Cobi, Walter H. Pile driving mandrel. 3,064,439, 11–20–62, Cl. 61—53.72.
Cobine, James D., and N. C. Cook, to General Electric Co. Circuit interrupter. 3,021,409, 2–13–62, Cl. 200—149.
Cobb, George W., Jr., E. I. du Pont de Nemours and Co. Process for preparing a thin cellular polyurethane layer of uniform thickness. 3,047,449, 7–31–62, Cl. 156—79.
Coble, Robert B., to Collins Radio Co. Missile guidance system. 3,028,119, 4–3–62, Cl. 244—14.
Coble, Robert L., to General Electric Co. Transparent alumina and method of preparation. 3,026,210, 3–20–62, Cl. 106—39.
Coblentz, Robert C. Air conditioner. 3,034,315, 5–15–62, Cl. 62—272.
Coblentz, Robert C. Air conditioning system. 3,015,216, 1–2–62, Cl. 62—180.
Coburn, Kenneth G., to Armco Steel Corp. Method of treating metallic strip with sodium vapor. 3,051,587, 8–28–62, Cl. 117—51.
Coburn, Robert E., to United Aircraft Corp. Manifold attachment to tubular wall. 3,062,566, 11–6–62, Cl. 285—137.
Coca-Cola Co., The: *See*—
Gore, Le Roy D., and Barnes. 3,021,685.
Jacobs, Robert L. 3,068,910.
Coceano, Domenico, to United States of America, Air Force. High temperature check valve. 3,059,667, 10–23–62, Cl. 137—533.13.
Cochran, Chudleigh B.: *See*—
Brown, Cicero C., and Cochran. 3,035,639.
Cochran, Clarence W., to United-Carr Fastener Corp. Fastening device. 3,023,473, 3–6–62, Cl. 24—243.
Cochran, Clarence W., to United-Carr Fastener Corp. Fastening device. 3,049,781, 8–21–62, Cl. 24—213.
Cochran, Clarence W., to United-Carr Fastener Corp. Snap-in bolt retainer. 3,050,097, 8–21–62, Cl. 151—41.75.
Cochran, Clarence W., to United-Carr Fastener Corp. Molding fastener installation. 3,059,739, 10–23–62, Cl. 189—88.
Cochran, Clarence W. and L. F., to United-Carr Fastener Corp. Wiring clip. 3,049,585, 8–14–62, Cl. 174—164.
Cochran, David: *See*—
La Pierre, Cramer W., Cochran, Janssen, Powell, and Samsel. 3,067,281.

Cochran, David S., to Hewlett-Packard Co. Electrical measuring instrument. 3,041,535, 6–26–62, Cl. 324—118.

Cochran Equipment Co.: *See—*
Bradshaw, Harold G., Guthrie, and Shaw. 3,066,817.
Bradshaw, Harold G., and Sanderson. 3,058,278.

Cochran, Frederic E. Fluid blender. 3,045,984, 7–24–62, Cl. 259—4.

Cochran, Frederick A., to National Folding Carton and Tube Co. Collapsible carrying case. 3,028,044, 4–3–62, Cl. 220—113.

Cochran, Harvey M. Wire stretcher. 3,045,970, 7–24–62, Cl. 254—73.

Cochran, James E. Feed mixing device. 3,037,671, 6–5–62, Cl. 222—142.

Cochran, John K., to Pittsburgh Plate Glass Co. Method and apparatus for forming glass fibers. 3,041,662, 7–3–62, Cl. 18—8.

Cochran, John K., to Pittsburgh Plate Glass Co. Twisted yarn package. 3,064,922, 11–20–62, Cl. 242—175.

Cochran, John M.: *See—*
McLane, Fletcher E., Pollack, and Cochran. 3,023,351.

Cochran, John M., H. L. Seelhoff, and F. H. Banks, to Westinghouse Electric Corp. Electric drive. 3,023,352, 2–27–62, Cl. 318—513.

Cochran, John R.: *See—*
Smith, Thomas R., Davis, McNally, and Cochran. 3,035,431.

Cochran, Kenneth W., and W. B. Huckabay, to R. C. Heldenbrand. Electro-magnetic flaw finder. 3,029,382, 4–10–62, Cl. 324—37.

Cochran, Lois F.: *See—*
Cochran, Clarence W. and L. F. 3,049,585.

Cochran, Richard C., to General Motors Corp. Domestic appliance. 3,027,908, 4–3–62, Cl. 137—109.

Cochran, Richard L., to The Buehler Corp. Steering mechanism. 3,040,525, 6–26–62, Cl. 60—35.55.

Cochran, Richard L., to The Buehler Corp. Single vane steering device. 3,040,694, 6–26–62, Cl. 115—12.

Cochran, Robert W. Methods of and apparatus for air conditioning. 3,036,444, 5–29–62, Cl. 62—467.

Cochran, William C.: *See—*
Kirby, Ben H., Jr., and Cochran. 3,058,855.

Cochran, Albert F. Wheel lift. 3,069,036, 12–18–62, Cl. 214—332.

Cochrane, Donald P., to United States Steel Corp. Dribble feeder. 3,056,531, 10–2–62, Cl. 222—77.

Cochrane, Douglas O.: *See—*
Drake, Arthur K., and Cochrane. 3,027,517.

Cochrane, Douglas O., to Edgerton, Germeshausen and Grier, Inc. Sweep signal generating system. 3,048,788, 8–7–62, Cl. 328—180.

Cochrane, George P. M.: *See—*
Howard, Ronald, and Cochrane. 3,015,727.

Cochrane, Hugh M., and G. E. Quesnel. Closure cap for cups and like containers. 3,048,317, 8–7–62, Cl. 229—7.

Cochrane, John D., III, and D. S. Wilt, to Hercules Powder Co. Manufacture of nitrocellulose. 3,063,981, 11–13–62, Cl. 260—220.

Cochron, Nolan C.: *See—*
Young, Lawrence A., and Cochron. 3,034,358.

Cockbaine, David R., and J. F. Hogg, to United Kingdom Atomic Energy Authority. Radiation measuring equipment. 3,065,348, 11–20–62, Cl. 250—83.6.

Cockburn, Stanley D., and J. D. Leslie, to General Motors Corp. Door latch safety interlock. 3,034,818, 5–15–62, Cl. 292—280.

Cocke, John: *See—*
Pomerene, James H., and Cocke. 3,051,387.

Cocker, John, II, to Spunize Co. of America, Inc. Yarn guide and crimper for textile machines. 3,067,480, 12–11–62, Cl. 28—1.

Cocker, John, III, to The Cocker Machine and Foundry Co. Apparatus for treating continuous running materials. 3,036,359, 5–29–62, Cl. 28—28.

Cocker, John, III, to Cocker Machine and Foundry Co. Method of treating textile material with liquid. 3,067,061, 12–4–62. Cl. 117—115.

Cocker, John T. *See—*
Bullock, Donald B., Cocker, and Rack. 3,064,208.

Cocker Machine & Foundry Co.: *See—*
Cocker, John, III. 3,036,359.
Cocker, John, III. 3,067,061.
Groce, Homer W. 3,030,118.
Suggs, Thomas F. 3,062,480.
Tager, Milton E., Browne, and McCoig. 3,044,145.

Cockeram, Herbert S., to Gillespie-Rogers-Pyatt Co. Water base dispersions of shellac soaps and polyepoxides and method for the preparation of such dispersions. 3,015,639, 1–2–62, Cl. 260—25.

Cockrell, Donald F.: *See—*
Bergman, Stephen A., and Cockrell. 3,063,079.
Bergman, Stephen A., and Cockrell. 3,063,080.

Cockrum, Maurice M. Fabric awning and stretcher therefor. 3,025,886, 3–20–62, Cl. 135—5.

Cocks, Eric H. Mist spray ring. 3,062,454, 11–6–62, Cl. 239—422.

Cocks, Walter B.: *See—*
Parrish, J Russell, and Cocks. 3,029,730.

Code, Charles J. Method of handling railroad cross tires. 3,044,641, 7–17–62, Cl. 214—152.

Code, Rheta M. H. Paper storage and dispensing device. 3,033,432, 5–8–62, Cl. 225—44.

Codichini, Joseph J.: *See—*
Cerasani, Americo J., and Codichini. 3,053,962.

Codichini, Joseph J., to Xerox Corp. Xerographic charging apparatus. 3,062,956, 11–6–62, Cl. 250—49.5.

Codichini, Joseph J., to Xerox Corp. Xerographic charging apparatus. 3,068,356, 12–11–62, Cl. 250—49.5.

Codignola, Franco, and G. K. E. Vogel, to Societa Italiana Resine. Stabilizing high molecular weight formaldehyde polymers by reaction with diazomethane. 3,061,589, 10–30–62. Cl. 260—67.

Codlin, James B., to Allis-Chalmers Mfg. Co. Vibration dampening coupling. 3,059,453, 10–23–62, Cl. 64—11.

Codrington, Robert S., to Schlumberger Well Surveying Corp. Magnetic resonance methods and apparatus. 3,025,456, 3–13–62, Cl. 324—5.

Cody, Henry B., to General Dynamics Corp. High voltage switching circuit. 3,066,229, 11–27–62, Cl. 307—88.5.

Coe, Beresford, to Rohm & Haas Co. Dispersion coatings. 3,050,412, 8–21–62, Cl. 117—75.

Coe, David G., to E. I. du Pont de Nemours and Co. Dyeing of polyester fiber and the products so obtained. 3,068,056, 12–11–62, Cl. 8—41.

Coe, Elvin L.: *See—*
Dooley, William P., and Coe. 3,023,764.

Coe Laboratories, Inc.: *See—*
Molnar, Eugene J. 3,046,248.

Coe, Leslie R.: *See—*
Caprin, Conrad, Wyckoff, and Coe. 3,043,450.

Coe Mfg. Co., The: *See—*
Holden, Arthur S., Jr. 3,039,586.
Worthington, Roy E. 3,061,065.
York, Lewis M. 3,052,272.

Coe, Mary. Easy gardening seat cart. 3,057,637, 10–9–62, Cl. 280—41.

Coe, Reginald T.: *See—*
Griffiths, Leonard, and Coe. 3,031,592.

Coe, Thomas, to North American Philips Co., Inc. Adhesive for attaching copper foils to other objects comprising a butadiene-acrylonitrile copolymer, a phenol-aldehyde resin and a monocarboxylic acid. 3,044,977, 7–17–62, Cl. 260—43.

Coenen, Max: *See—*
Geiger, Julius, Ossenbrunner, and Coenen. 3,018,177.

Coenegen, Frederic H.: *See—*
Post, Richard F., and Coensgen. 3,069,344.

Coes, Loring, Jr., to Norton Co. Electrically conductive organic bonded grinding wheel. 3,062,633, 11–6–62, Cl. 51—295.

Coes, Loring, Jr., to Norton Co. Control means for use with grinding wheels having magnetic properties. 3,064,396, 11–20–62. Cl. 51—165.

Coester, Ernest A., to United States of America, Navy. Balloon and method of inflating the same. 3,063,657, 11–13–62, Cl. 244—31.

Coester, Robert, to Maschinenfabrik Benninger A.-G. Turbomachine. 3,033,441, 5–8–62, Cl. 230—125.

Coetzee, Jacob J.: *See—*
Smit, Nimrod, and Coetzee. 3,053,624.

Coeytaux, Georges E. Sighting device for firing at a moving target. 3,059,338, 10–23–62, Cl. 33—49.

Coffaro, John: *See—*
Bonomo, Joseph D., and Coffaro. 3,031,980.

Coffee, Charles W.: *See—*
Robinson, Ursery S., and Coffee. 3,070,289.

Coffee, Charles W. Wire line jars. 3,024,854, 3–13–62, Cl. 175—299.

Coffee Equipment, Inc.: *See—*
Eads, George L., and Dawkins. 3,060,835.

Coffee, Wendell: *See—*
Briggs, Emmett G. 3,039,548.
Helweg, Claud E. 3,043,329.
Jacobs, William H., and Timpone. 3,019,893.

Coffeen, William W.: *See—*
Myers, Curtis B., and Coffeen. 3,022,929.

Coffelt, Lester S. Guide fixture for flush tanks. 3,047,881, 8–7–62, Cl. 4—57.

Coffer, Lynn W.: *See—*
Stephens, Frank M., Jr., Coffer, and Langston. 3,053,648.

Coffey, John L.: *See—*
Campbell, Harold E., Coffey, and Connolly. 3,065,961.

Coffey, Samuel: *See—*
Budziarek, Richard, and Coffey. 3,031,466.

Coffield, Thomas H.: *See—*
Closson, Rex D., and Coffield. 3,029,266.
Ihrman, Kryn G., and Coffield. 3,037,999.

Coffield, Thomas H., to Ethyl Corp. Organic compositions. 3,043,774, 7–10–62, Cl. 252—51.5.

Coffield, Thomas H., to Ethyl Corp. Sulfur-containing phenolic compounds. 3,057,926, 10–9–62, Cl. 260—609.

Coffield, Thomas H., to Ethyl Corp. Sulfur-containing phenolic compounds. 3,069,384, 12–18–62, Cl. 260—45.95.

Coffield, Thomas H., and Rex D. Closson, to Ethyl Corp. Organometallic compounds. 3,042,693, 7–3–62, Cl. 260—429.

Coffield, Thomas H., and A. H. Filbey. Organic material containing a 4,4'-methylenebis phenol. 3,043,775, 7–10–62, Cl. 252—52.

Coffin, Harland H., to Producto Machine Co. Die set bearing. 3,055,714, 9–25–62, Cl. 308—6.

Coffin, John M., and A. G. Ewing, to Lenkurt Electric Co., Inc. Sensing device for turns counting. 3,039,052, 6–12–62, Cl. 324—61.

Coffin, John P., to General Motors Corp. Distributor vacuum control. 3,038,166, 5–22–62, Cl. 200—31.
Coffin, Louis F., Jr.: *See*—
Oxx, Gordon D., Jr., and Coffin. 3,069,288.
Coffinberry, Arthur S., to United States of America, Atomic Energy Commission. Reactor fuel scavenging means. 3,029,142, 4–10–62, Cl. 75—84.1.
Coffinberry, Arthur S., and J. T. Waber, to United States of America, Atomic Energy Commission. Non-corrosive plutonium fuel systems. 3,060,108, 10–23–62, Cl. 204—154.2.
Coffman, Donald D.: *See*—
Chambers, William J., and Coffman. 3,023,208.
Coffman, Donald D., to E. I. du Pont de Nemours and Co. Polymerization process using polyfluoroazoalkanes as initiators. 3,047,553, 7–31–62, Cl. 260—88.7.
Coffman, Donald D., and E. L. Jenner, to E. I. du Pont de Nemours and Co. Preparation of amines. 3,017,435, 1–16–62, Cl. 260—583.
Coffman, Frederick E., to Wald Industries, Inc. Internal mix catalyst type spray gun and process employing same. 3,049,439, 8–14–62, Cl. 117—104.
Coffman, Joe W. Printing apparatus for overhead projection slides. 3,067,666, 12–11–62, Cl. 95—73.
Coffman, Marcella M., and W. M. Vanderpool. Flexible handled mop holder. 3,045,269, 7–24–62, Cl. 15—147.
Coffman, Moody L., to Acoustic Controls, Inc. Acoustic control unit. 3,049,190, 8–14–62, Cl. 181—33.
Coffman, Quentin H.: *See*—
Jones, Albert R., and Coffman. 3,053,719.
Coffman, Raphael T., to United States of America, Atomic Energy Commission. Remote control manipulator. 3,065,-864, 11–27–62, Cl. 214—1.
Cofresi, Rafael. Multiple saliva ejector. 3,049,806, 8–21–62, Cl. 32—33.
Coggeshall, Almy D., to General Electric Co. Insulating tension member and method of manufacture. 3,024,302, 3–6–62, Cl. 174—177.
Coggeshall, Almy D., to General Electric Co. Electrodynamic machines. 3,027,476, 3–27–62, Cl. 310—260.
Coggeshall, Almy D., to General Electric Co. Glass-resin tape for armature banding. 3,047,756, 7–31–62, Cl. 310—271.
Coggeshall, Alva C., to Monsanto Chemical Co. Melt-spinning method. 3,042,481, 7–3–62, Cl. 18—54.
Coggeshall, Norman D., O. K. Doolen, and R. D. Wyckoff, to Gulf Research & Development Co. Sorption-desorption method and apparatus. 3,059,478, 10–23–62, Cl. 73—432.
Coggeshall, Thelwell R., to General Electric Co. Gas blast circuit breaker. 3,065,322, 11–20–62, Cl. 200—148.
Coggin, Charles H., to Mount Vernon Mills, Inc. Apparatus and process for stabilizing industrial fabrics. 3,061,906, 11–6–62, Cl. 26—68.
Coghill, Henry D.: *See*—
Koller, Lewis R., and Coghill. 3,016,307.
Coghill, James T., to Curlator Corp. Machine for treating wood pulp and the like. 3,028,632, 4–10–62, Cl. 19—66.
Coghill, James T., to Curlator Corp. Machine for processing wood pulp and the like. 3,028,633, 4–10–62, Cl. 19—66.
Coghill, James T., to Curlator Corp. Machine for treating wood pulp and the like. 3,028,634, 4–10–62, Cl. 19—66.
Coglianese, Michael W. Golf club. 3,035,839, 5–22–62, Cl. 273—164.
Cogliano, Joseph A.: *See*—
Braude, George L., and Cogliano. 3,038,785.
Cogniat, Marcel, to Societe d'Electro-Chimie d'Electro-Metallurgie et des Acieres Electriques d'Ugine. Apparatus and method for analysis of fluids. 3,018,655, 1–30–62, Cl. 73—27.
Cogsdill, Stuart A., to Cogsdill Tool Products, Inc. Cutting tool. 3,021,733, 2–20–62, Cl. 77—58.
Cogsdill, Stuart A., to Cogsdill Tool Products, Inc. Back spotface tool. 3,046,845, 7–31–62, Cl. 90—11.
Cogsdill Tool Products, Inc.: *See*—
Cogsdill, Stuart A. 3,021,733.
Cogsdill, Stuart A. 3,046,845.
Winberry, George H., Jr. 3,019,712.
Cogswell, George W., to A. E. Staley Mfg. Co. Water-dispersible lecithin. 3,069,361, 12–18–62, Cl. 252—363.5.
Cohane, Harry E., and H. J. Howard, to Penetray Corp. Shipping and display carton. 3,050,230, 8–21–62, Cl. 229—39.
Cohen, Aaron, and A. M. Parsons, to Hoffmann-La Roche Inc. 5,6,7,8-tetrahydroquinoline-3-carboxamide and derivatives. 3,016,381, 1–9–62, Cl. 260—287.
Cohen, Abraham B.: *See*—
Bauer, Herbert, and Cohen. 3,052,543.
Burg, Marion, and Cohen. 3,060,023.
Burg, Marion, and Cohen. 3,060,024.
Burg, Marion, and Cohen. 3,060,025.
Cohen, Abraham B., to E. I. du Pont de Nemours and Co. Process for reproducing negative images. 3,070,428, 12–25–62, Cl. 41—41.
Cohen, Abraham B., and R. B. Heiart, to E. I. du Pont de Nemours and Co. Process for treating shaped articles. 3,035,881, 5–22–62, Cl. 8—55.
Cohen, Abraham B., and R. B. Heiart, to E. I. du Pont de Nemours and Co. Process for rendering polyester film receptive to photographic materials and resulting elements. 3,035,915, 5–22–62, Cl. 96—87.
Cohen, Abraham B., and R. B. Heiart, to E. I. du Pont de Nemours and Co. Process for treating polyester film. 3,035-941, 5–22–62, Cl. 117—138.8.
Cohen, Abraham B., and J. C. Firestine, to E. I. du Pont de Nemours and Co. Process for producing colored polymeric relief images and elements therefor. 3,070,442, 12–25–62, Cl. 96—35.
Cohen, Albert, to Shoup Electronics, Inc. Card reader. 3,034,711, 5–15–62, Cl. 235—61.11.
Cohen, Albert H., and A. M. Goodloe, to Metal Textile Corp. Knitted mesh cushion or pad for laboratory clamps and method of making. 3,032,849, 5–8–62, Cl. 24—262.
Cohen, Alfred G.: *See*—
Small, Samuel N. 3,046,701.
Cohen, Arthur M. Brushless mechanico-electrical transducer. 3,057,979, 10–9–62, Cl. 200—91.
Cohen, Arthur M. Form for bookkeeping. 3,061,335, 10–30–62, Cl. 282—23.
Cohen, Charles L.: *See*—
White, Hosea D., Jr., Cohen, and McGinty. 3,026,630.
Cohen, Charles L., to ACF Industries, Inc. Absolute value circuit having an alternating current output phase locked to a reference oscillation. 3,024,370, 3–6–62, Cl. 307—88.5.
Cohen, Charles L., to ACF Industries, Inc. Flight simulator. 3,031,775, 5–1–62, Cl. 35—12.
Cohen, Charles L., J. A. Fitzpatrick, and E. Lyon, III, to ACF Industries, Inc. Pulse propagation monitoring system. 3,024,458, 3–6–62, Cl. 343—17.1.
Cohen, Charles L., and R. A. Atchison, to ACF Industries, Inc. Minimum quantity selector. 3,031,142, 4–24–62, Cl. 235—193.
Cohen, Cesar Lara, Georges, M. L. Delachanal, and R. Platzer, to Commissariat a l'Energie Atomique. Methods for separating a granular material from a liquid. 3,049,236, 8–14–62, Cl. 210—68.
Cohen, Elie, and S. Roth. Electromagnetic coupling. 3,056,-895, 10–2–62, Cl. 310—96.
Cohen, Elliott, and B. Klarberg, to American Cyanamid Co. 7 - chloro-2-chloromethyl - 6 - sulfamyl-1,2,3,4-tetrahydro-4-quinazolinone. 3,065,235, 11–20–62, Cl. 260—256.4.
Cohen, Ezra, to Bell Telephone Laboratories, Inc. Stabilized timing circuit. 3,032,714, 5–1–62, Cl. 324—68.
Cohen, Harold H. Tuckett, to Syrvana Electric Products Inc. Manufacture of hermetically sealed semiconductor device. 3,060,656, 10–30–62, Cl. 53—37.
Cohen, George: *See*—
Rogers, Morris R., Kaplan, and Cohen. 3,067,094.
Schubert, Adolf, and Cohen. 3,041,130.
Cohen, George, 600 Group Ltd., The: *See*—
Hayward, Albert J. 3,028,778.
Cohen, Howard J., to National Distillers and Chemical Corp. Catalytic process for polymerizing ethylenically unsaturated hydrocarbon. 3,046,268, 7–24–62, Cl. 260—94.9.
Cohen, Howard J., and J. M. Hoyt, to National Distillers and Chemical Corp. Catalytic process for polymerizing ethylenically unsaturated hydrocarbons. 3,046,267, 7–24–62, Cl. 260—94.9.
Cohen, Howard J., and J. M. Hoyt, to National Distillers and Chemical Corp. Catalytic process for polymerizing ethylenically unsaturated hydrocarbons. 3,046,269, 7–24–62, Cl. 260—94.9.
Cohen, Hyman L.: *See*—
Minsk, Louis M., and Cohen. 3,048,487.
Cohen, Irvin. Gear bolt with expanding sleeve. 3,017,800, 1–23–62, Cl. 85—2.4.
Cohen, Irwin, and E. A. Taub, to Rockline Realty Corp. Pre-printed corrugated board fabrication and cut-off control method and apparatus. 3,058,869, 10–16–62, Cl. 156—250.
Cohen, Israel B. Interleaving apparatus for packaging bacon slices. 3,019,578, 2–6–62, Cl. 53—123.
Cohen, Israel B., and J. M. White, ½ to G. Miller. Device for forming non-adhesive bacon slices. 3,035,540, 5–22–62, Cl. 118—15.
Cohen, Jerome M., and S. S. Saryan, to Allied Kid Co. Crock-proof suedes and methods of making same. 3,027,276, 3–27–62, Cl. 117—142.
Cohen, Leon E.: *See*—
Tidridge, William A., and Cohen. 3,037,935.
Tidridge, William A., and Cohen. 3,037,936.
Cohen, Leon E., to FMC Corp. High-foam paste detergent composition. 3,039,971, 6–19–62, Cl. 252—138.
Cohen, Leon L. Dental device and method of making dental crowns. 3,058,216, 10–16–62, Cl. 32—12.
Cohen, Martin J., to Franklin Systems, Inc. Measuring systems using infra-red radiation. 3,043,956, 7–10–62, Cl. 250—83.3.
Cohen, Martin J., R. W. Young, J. Dusenbery, and H. C. Gibson, to John Dusenbery Co., Inc. Improved apparatus for measuring, indicating, and controlling web tension. 3,031,152, 4–24–62, Cl. 242—75.51.
Cohen, Max, and E. R. Elston. Combined container and straw. 3,021,991, 2–20–62, Cl. 229—7.
Cohen, Milton J. Disposable additive container. 3,066,671, 12–4–62, Cl. 128—272.
Cohen, Milton J. Needle-syringe barrel attachment. 3,068,-866, 12–18–62, Cl. 128—221.
Cohen, Morton R. Chair seat fastening clip. 3,054,156, 9–18–62, Cl. 24—73.
Cohen, Oscar P.: *See*—
Lindstrom, Mary D., Fantl, Cohen, and Heaps. 3,058,938.
Cohen, Paul, to Technical Tape Corp. Nail coverings. 3,023,-887, 3–6–62, Cl. 206—56.
Cohen, Raymond. Combination head supported water basin or tray, cheek and lip retractor and vacuum saliva ejector. 3,027,643, 4–3–62, Cl. 32—33.

Cohen, Robert A. Transparency viewer and storage device. 3,061,961, 11–6–62 Cl. 40—63.
Cohen, Robert S., to Dover Chemical Corp. Method of forming friction film on hand. 3,035,988, 5–22–62, Cl. 167—92.
Cohen, Samuel W. Optical instrument with binocular viewing attachment. 3,067,648, 12–11–62, Cl. 88—20.
Cohen, Saul: *See—*
Lavin, Edward, and Cohen. 3,041,313.
Cohen, Saul M.: *See—*
Markhart, Albert H., Hunt, and Cohen. 3,048,560.
Cohen, Sheldon N., to Check-Out Advertising, Inc. Folded cash register tape. 3,042,426, 7–3–62, Cl. 283—62.
Cohen, Sidney: *See—*
Park, Joseph B., and Cohen. 3,059,030.
Cohen, Sol, and F. A. Tyrone. Fish landing net. 3,032,908, 5–8–62, Cl. 43—12.
Cohen, Werner V., to E. I. du Pont de Nemours and Co. Fluorine-containing compounds and process for preparing them. 3,017,421, 1–16–62, Cl. 260—456.
Cohen, William D., to Digitronics Corp. Information sensing apparatus. 3,057,974, 10–9–62, Cl. 200—46.
Cohn, Charles C., to S. L. and C. C. Cohn, trading and d.b.a. Colonial Alloys Co. Method of treating metal surfaces. 3,030,238, 4–17–62, Cl. 134—26.
Cohn, Charles C., to S. L. and C. C. Cohn, d.b.a. Colonial Alloy Co. Cigarette construction. 3,030,963, 4–24–62, Cl. 131—4.
Cohn, Charles C., to S. L. Cohn and C. C. Cohn, d.b.a. Colonial Alloys Co. Cigarette construction. 3,066,681, 12–4–62, Cl. 131—10.
Cohn, David, to Model Plastic Corp. Method of molding dolls' heads. 3,015,856, 1–9–62, Cl. 18—55.
Cohn, David. Bowling game. 3,019,020, 1–30–62, Cl. 273—44.
Cohn, David, to Model Plastic Corp. Sound producing devices for dolls, and doll bodies provided with sound producing devices. 3,032,929, 5–8–62, Cl. 46—117.
Cohn, David, to Model Plastics Corp. Apparatus for making heads for tearing dolls. 3,037,246, 6–5–62, Cl. 18—39.
Cohn, David. Drive for toy farm structures. 3,066,437, 12–4–62, Cl. 46—39.
Cohn, Eugene: *See—*
Cohn, Samuel and E., and Catallo. 3,065,551.
Cohn, Eugene, F. Catallo, and J. Cohn, to Compax Corp. Method and apparatus for treating web materials, such as fabrics. 3,015,145, 1–2–62, Cl. 26—18.6.
Cohn, Eugene, F. Catallo, and J. Cohn, to Compax Corp. Method and apparatus for compacting web materials, such as fabrics. 3,015,146, 1–2–62, Cl. 26—18.6.
Cohn, Harold J. Support mechanism for extensible and retractable shelves and the like. 3,070,338, 12–25–62, Cl. 248—291.
Cohn, Harold J. Extendible and retractable accessory for articles of furniture and support for the same. 3,070,340, 12–25–62, Cl. 248—284.
Cohn, Harold S. Safety closure for bottles and the like. 3,044,648, 7–17–62, Cl. 215—9.
Cohn, Harry L., and R. W. Marine cable knife. 3,032,874, 5–8–62, Cl. 30—91.
Cohn, Herman M. Back support. 3,041,108, 6–26–62, Cl. 297—378.
Cohn, Irving H., and S. S. Thaler, to Simmonds Aerocessories, Inc. Flow measuring device. 3,068,695, 12–18–62, Cl. 73—244.
Cohn, Johann G. E.: *See—*
Andersen, Holger C., Cohn, and Glogau. 3,032,387.
Cohn, Johann G. E., A. J. Haley, Jr., and H. C. Andersen, to Engelhard Industries, Inc. Method of effecting the catalytic contact of gases containing oxygen and methane. 3,056,646, 10–2–62, Cl. 23—2.
Cohn, Joseph: *See—*
Cohn, Eugene, Catallo, and Cohn. 3,015,145.
Cohn, Eugene, Catallo, and Cohn. 3,015,146.
Cohn, Lawrence H. to Welsh Co. Baby jumper. 3,054,591, 9–18–62, Cl. 248—399.
Cohn, Leonard M.: *See—*
Henne, Hans. 3,034,887.
Cohn, Maurice. Garment fastening eye. 3,050,806, 8–28–62, Cl. 24—228.
Cohn, Morris I., and R. D. Perdue, to Mineral Industries Corp. of America. Method and apparatus for reducing particle size. 3,039,703, 6–19–62, Cl. 241—5.
Cohn, Richard W.: *See—*
Cohn, Harry L. and R. W. 3,032,874.
Cohn, Ruth. Extract substances and process for recovering them from aqueus citrus-fruit processing liquors. 3,037,-975, 6–5–62, Cl. 260—236.6.
Cohn, Samuel and E., and F. Catallo, to Samco Holding Corp. Reel dryer. 3,065,551, 11–27–62, Cl. 34—62.
Cohn, Samuel L.: *See—*
Cohn, Charles C. 3,030,238.
Cohn, Charles C. 3,030,963.
Cohn, Charles C. 3,066,681.
Cohn, Seymour B., to United States of America, Army. Broadband waveguide filter. 3,046,503, 7–24–62, Cl. 333—73.
Cohn, Sigmund, Corp.: *See—*
Brenner, Bert. 3,036,251.
Cohn, Werner C.: *See—*
Schlosser, Russell K., Jr., and Cohn. 3,036,375.
Cohn, Werner C., to United States Steel Corp. Assembly for insertion in a blast furnace wall. 3,043,578, 7–10–62, Cl. 266—41.
Cohron, Gerald T.: *See—*
Peterson, Robert A., and Cohron. 3,035,361.
Cohron, Gerald T., and R. E. Mayo, to Caterpillar Tractor Co. Earth moving scraper bowl construction. 3,049,819, 8–21–62, Cl. 37—129.
Coillot, Golda G. Combined book protector and memocalendar with concealed advertisement. 3,021,156, 2–13–62, Cl. 281—17.
Coin-Meter Co.: *See—*
Kokosh, George, and Savela. 3,066,783.
Cointreau, Jacques M. Adjustable frame unit for advertising mat. 3,023,525, 3–6–62, Cl. 40—158.
Cokelet, Giles R.: *See—*
Armen, Ardy, Murdock, and Cokelet. 3,029,213.
Coker, Fitzlee H., and B. M. Reaves, to Sonoco Products Co. Sampling device. 3,066,539, 12–4–62, Cl. 73—423.
Coker, Frank B.: *See—*
Peterson, Raymond A., and Coker. 3,051,897.
Coker, George N.: *See—*
Beach, Earl F., and Coker. 3,032,632.
Coker, James N., M. Fields, and A. O. Rogers, to E. I. du Pont de Nemours and Co. 1-acetyl-3-indoleacetaldehyde semicarbazone. 3,061,611, 10–30–62, Cl. 260—319.
Colabella, Alfred V., Jr., to Kaiser Industries. Three-dimensional reproduction apparatus. 3,065,554, 11–27–62, Cl. 35—41.
Colagrosso, Joseph, and W. R. Wines, to Sperry Rand Corp. Generator of pulses of maximum width utilizing direct "turn-on" pulse and delayed inverted "turn-off" pulse. 3,054,959, 9–18–62, Cl. 328—58.
Colaiaco, August P., to Westinghouse Electric Corp. Rectifier apparatus. 3,018,424, 1–23–62, Cl. 317—234.
Colaiaco, August P., to Westinghouse Electric Corp. Detection circuit. 3,045,167, 7–17–62, Cl. 321—14.
Colaiaco, August P., to Westinghouse Electric Corp. Detection circuit for blown fuses. 3,045,224, 7–17–62, Cl. 340—250.
Colaiaco, August P., L. G. Miller, and E. J. Cham, to Westinghouse Electric Corp. Detection circuit. 3,018,417, 1–23–62, Cl. 317—52.
Colautti, Albert J., to General Motors Corp. Power transmitting mechanism for vehicle seats. 3,043,552, 7–10–62, Cl. 248—429.
Colbert, Harry P., to United States of America, Atomic Energy Commission. Multiple shaft tool head. 3,059,688, 10–23–62, Cl. 153—79.
Colbert, Jee J. Cable splice enclosure. 3,054,847, 9–18–62, Cl. 174—88.
Colbert, Lee J., to Robertson Electric Co., Inc. Enclosure for cable splices. 3,054,849, 9–18–62, Cl. 174—92.
Colbert, William A. Guide for laying bricks. 3,063,152, 11–13–62, Cl. 33—85.
Colborne, Ronald H., and A. Y. Murphy, to Electric & Musical Industries Ltd. Cathode ray tubes. 3,023,137, 2–27–62 Cl. 156—67.
Colburn, David S., to Beckman Instruments, Inc. Regulated power supply. 3,031,578, 4–24–62, Cl. 250—205.
Colby, George E., to Magnetic Seal Corp. Radially contacting seal with balancing sleeve. 3,050,319, 8–21–62, Cl. 277—27.
Colby, Gerald W., to General Motors Corp. Depth type fibrous filter elements. 3,069,017, 12–18–62, Cl. 210—484.
Colby, John B., and W. E. Holland, to Jersey Production Research Co. Recompletion of wells. 3,070,163, 12–25–62, Cl. 166—33.
Colchagoff, Robert D., and U. P. Trudeau, to Owens-Illinois Glass Co. Glass forming machine. 3,069,860, 12–25–62, Cl. 60—97.
Colclough, William G., Jr.: *See—*
Walton, Richard K., Sellers, and Colclough. 3,026,278.
Colclough, William G., Jr., to Union Carbide Corp. Polyepoxide compositions. 3,018,264, 1–23–62, Cl. 260—37.
Colclough, William G., Jr., to Union Carbide Corp. Polyepoxide compositions. 3,063,965, 11–13–62, Cl. 260—59.
Coldren, Chester P., to Eaton Mfg. Co. Fastening devices. 3,016,944, 1–16–62, Cl. 151—38.
Coldren, Chester P., to Eaton Mfg. Co. Clip ring dispensers. 3,058,596, 10–16–62, Cl. 211—59.
Cole, Addison D., J. B. Levin, and N. Repella, to Laboratory For Electronics, Inc. Radar guidance system. 3,028,595, 4–3–62, Cl. 343—100.
Cole, Alma F., Jr.: *See—*
Quackenbush, Stanley G., and Cole. 3,068,009.
Cole, Austin, III, to Dayco Corp. Mixing apparatus. 3,026,-183, 3–20–62, Cl. 23—252.
Cole, Clayton K.: *See—*
Cissna, David H., and Cole. 3,048,284.
Cole, Clayton K., to The Heil Co. Loading, hauling and dumping apparatus. 3,056,516, 10–2–62, Cl. 214—77.
Cole, Dale K., and J. C. Kaufeld, to General Motors Corp. Timing chain vibration damper. 3,069,920, 12–25–62, Cl. 74—240.
Cole, Don D.: *See—*
Tincher, Charles J., and Cole. 3,061,284.
Cole, Donald N.: *See—*
Nelson, Marvin D., and Cole. 3,051,446.
Cole, Eldon B., and P. M. Niles, to Sinclair Refining Co. Fuel compositions. 3,042,506, 7–3–62, Cl. 44—62.
Cole, Eldon B., and P. M. Niles, to Sinclair Refining Co. Fuel compositon. 3,053,645, 9–11–62, Cl. 44—73.
Cole Electric Co.: *See—*
Winestock, Bernard J. 3,056,940.
Cole, Fred H. Vibration resistant connector. 3,064,226, 11–13–62, Cl. 339—64.

Cole, George F., and A. Turley, to Vono Ltd. Spring assembly. 3,042,395, 7–3–62, Cl. 267—108.
Cole, George R. Internal combustion engine. 3,060,915, 10–30–62, Cl. 123—59.
Cole, Harry G. Combination bottle and rack therefor. 3,033,375, 5–8–62, Cl. 211—75.
Cole, Henry B.: *See*—
Bazinet, Wilfred P., Jr., and Cole. 3,037,241.
Cole, Henry B., to American Optical Co. Method for the manufacture of optical image-transfer devices. 3,033,731, 5–8–62, Cl. 154—91.
Cole, Herman L., ½ to T. Ladymon, d.b.a. Albert Ladymon Co. Adjustable feeder shoe 3,042,396, 7–3–62, Cl. 271—26.
Cole, Howard W., Jr., to Torque Industries, Inc. Hermetically sealed rotary shaft coupling. 3,028,761, 4–10–62, Cl. 74—69.
Cole, James E., to Riegel Paper Corp. Tensioning device for a web in a slitting apparatus. 3,046,823, 7–31–62, Cl. 83—175.
Cole, James N., to International Business Machines Corp. Multiple pole, double throw switch. 3,037,125, 5–29–62, Cl. 307—88.
Cole, John. Frame construction for wall openings. 3,037,589, 6–5–62, Cl. 189—34.
Cole, John W.: *See*—
Julian, Percy L., and Cole. 3,055,918.
Kurath, Paul, and Cole. 3,045,012.
Cole, Leland G., to Consolidated Electrodynamics Corp. Fluid analysis. 3,036,895, 5–29–62, Cl. 23—232.
Cole, Leland G., to Consolidated Electrodynamics Corp. Apparatus for removing from a fluid a material susceptible to electrolytic decomposition. 3,038,853, 6–12–62, Cl. 204—265.
Cole, Leslie A., Jr., to Manning, Maxwell & Moore, Inc. Wire carrier. 3,031,540, 4–24–62, Cl. 191—33.
Cole, Leslie C.: *See*—
Hutchinson, William G., and Cole. 3,015,278.
Hutchinson, William G., and Cole. 3,026,807.
Cole, Manny E. Container-holding device. 3,049,137, 8–14–62, Cl. 134—152.
Cole, Nelson E., to Dana Corp. Resilient cradle for boat trailers. 3,039,629, 6–19–62, Cl. 214—84.
Cole, Paul M., to E. I. du Pont de Nemours and Co. Double pleated fabric. 3,035,329, 5–22–62, Cl. 28—78.
Cole, Raymond M.: *See*—
Bayer, Robert J., Cole, and Stoughton. 3,016,689.
Cole, Raymond S., to Electronic Specialty Co. Anti-friction screw device. 3,053,105, 9–11–62, Cl. 74—424.8.
Cole, Richard H.: *See*—
Carlson, William L., Jr., and Cole. 3,046,893.
Cole, Richard H., to Minneapolis-Honeywell Regulator Co. Pump control system. 3,032,993, 5–8–62, Cl. 60—52.
Cole, Richard H., to Minneapolis-Honeywell Regulator Co. Modulated electromagnetic pump. 3,066,607, 12–4–62, Cl. 103—1.
Cole, Robert B.: *See*—
Hansen, Roy C. 3,019,560.
Cole, Roy S., and W. N. Honeyman, to Electric & Musical Industries Ltd. Waveguides. 3,020,501, 2–6–62, Cl. 333—98.
Cole, Stanley L.: *See*—
Hammond, Eric T., Watson, Cole, and Lane. 3,035,397.
Cole, Stephen, and L. A. McGinn, to Phillips Electrical Co. Ltd. Cable reel carton device. 3,027,003, 3–27–62, Cl. 206—52.
Cole, Theodore H., and N. MacDonald, Jr., to International Business Machines Corp. Component delivery and cutoff apparatus. 3,057,528, 10–9–62, Cl. 226—37.
Cole, Thomas D. Decorating material. 3,033,330, 5–22–62, Cl. 28—78.
Cole, Thomas M., to Federal Pacific Electric Co. Circuit protective apparatus. 3,068,379, 12–11–62, Cl. 317—58.
Cole, Thomas M., to Federal Pacific Electric Co. Circuit breakers. 3,069,517, 12–18–62, Cl. 200—88.
Cole Vending Industries, Inc.: *See*—
Mortara, Holy. 3,053,423.
Mortara, Holy. 3,053,589.
Colebrook, James N., to The Lodge & Shipley Co. Machine tool control. 3,043,172, 7–10–62, Cl. 82—2.
Coleby, John, to R. Graesser Ltd. Apparatus for countercurrent treatment of immiscible fluids. 3,017,253, 1–16–62, Cl. 23—270.5.
Coleman, Anthony S., and H. R. Holland, to Brayhead (Ascot) Ltd. Turret tuners. 3,056,075, 9–25–62, Cl. 317—249.
Coleman, Charles H., to Columbia Broadcasting System, Inc. Electronic switching apparatus. 3,034,065, 5–8–62, Cl. 328—154.
Coleman, Charles H., to United States of America, Army. Solvent-front indicator for paper chromatograms. 3,046,779, 7–31–62, Cl. 73—53.
Coleman, Charles S. Bed table and commode. 3,050,741, 8–28–62, Cl. 4—134.
Coleman, Conrad. Electric connecting clamps. 3,020,519, 2–6–62, Cl. 339—273.
Coleman, Denis: *See*—
Waid, Ted H., and Coleman. 3,021,375.
Coleman, Denis, to Monsanto Canada Ltd. Polyamides from 2,4-bis-carboxymethyltoluene. 3,026,302, 3–20–62, Cl. 260—78.
Coleman, Dorothy D.: *See*—
Denis, Albert P. 3,049,798.
Coleman, Edwin D., deceased, by M. A. Riskind, and Northern Trust Co., co-executors, and J. J. J. Staunton, to Coleman Instruments, Inc. Chromatographic reader. 3,023,664, 3–6–62, Cl. 88—14.
Coleman, Eldridge. Hot stick for applying preformed armor. 3,021,875, 2–20–62, Cl. 140—93.
Coleman Engineering Co., Inc.: *See*—
Clifton, John E., and Nolan. 3,026,850.
Coleman, Garlin J. Detachable game pocket. 3,046,563, 7–31–62, Cl. 2—251.
Coleman, George M.: *See*—
Redfern, John T., and Coleman. 3,017,374.
Coleman, Gerald W., and J. M. Gwinn, Jr., to Gar Wood Industries, Inc. Refuse truck body and loader. 3,044,644, 7–17–62, Cl. 214—503.
Coleman, Grant C.: *See*—
Campbell, Spencer C., and Coleman. 3,024,865.
Coleman, Henri P.: *See*—
Marston, Arthur E., Coleman, and Kaiser. 3,017,633.
Coleman, Herman O.: *See*—
Vogt, Patrick E., and Coleman. 3,030,984.
Coleman, Homer W.: *See*—
Blair, David R., Jr., Bonner, and Coleman. 3,048,103.
Blair, David R., Jr., Coleman, and Ryan. 3,064,573.
Coleman Instruments, Inc.: *See*—
Coleman, Edwin D., and Staunton. 3,023,664.
Staunton, John J. J. 3,015,983.
Staunton, John J. J. 3,045,532.
Coleman, Ivan V.: *See*—
Ostline, John E., Coleman, and Taugner. 3,019,295.
Coleman, John H., to Radiation Research Corp. Photoelectric generator. 3,058,022, 10–9–62, Cl. 313—96.
Coleman, John H., to Radiation Research Corp. Polymerizing method and apparatus. 3,068,510, 12–18–62, Cl. 18—2.
Coleman, John H., to Radiation Research Corp. Polymerizing method and apparatus for carrying out the same. 3,069,283, 12–18–62, Cl. 117—4.
Coleman, Joseph: *See*—
Mark, Alexander H., Brzustowski, and Coleman. 3,049,128.
Mark, Alexander H., Cooper, and Coleman. 3,049,129.
Coleman, Joseph E.: *See*—
Swern, Daniel, and Coleman. 3,054,804.
Coleman, Joseph J.: *See*—
Dittman, Emil M., Coleman, and Steinhoff. 3,061,501.
Warren, Robert A., Coleman, and Wilke. 3,056,849.
Coleman, Joseph J., to Servel, Inc., Burgess Battery Co. Division. Magnesium battery. 3,043,899, 7–10–62, Cl. 136—108.
Coleman, Millard J., to International Business Machines Corp. Electrical decoder. 3,047,854, 7–31–62, Cl. 340—347.
Coleman, Paul J.: *See*—
Pessl, Hubert J., Brandenburg, and Coleman. 3,028,662.
Coleman, Ralph A., to American Cyanamid Co. Process of dyeing synthetic fibers with o-hydroxybenzophenones. 3,049,443, 8–14–62, Cl. 117—138.8.
Coleman, Ralph A., F. J. Arthen, J. P. Milionis, and W. S. Forster, to American Cyanamid Co. Cellulosic derivatives of triazinylbenzophenones. 3,041,330, 6–26–62, Cl. 260—231.
Coleman, Ralph A., and J. L. Rodgers, to American Cyanamid Co. Manganese complexes of azo compounds as infrared absorbers. 3,042,624, 7–3–62, Cl. 252—300.
Coleman, Ralph A., F. J. Arthen, J. P. Milionis, and W. S. Forster, to American Cyanamid Co. Aminohydroxybenzophenones and triazine derivatives thereof. 3,057,921, 10–9–62, Cl. 260—570.
Coleman, Richard R., Jr. Gas turbine engine. 3,043,106, 7–10–62, Cl. 60—39.51.
Coleman, Robert M., Jr. Disposable nursing bottle. 3,055,525, 9–25–62, Cl. 215—11.
Coleman, Sidney B., to Bell Telephone Laboratories, Inc. Selective signaling system. 3,064,236, 11–13–62, Cl. 340—164.
Coleman, Sidney B. Marker buoy. 3,068,497, 12–18–62, Cl. 9—9.
Coleman, Sydney G., to Fant Milling Co. Method and apparatus for forming and packaging blanks of dough. 3,065,584, 11–27–62, Cl. 53—122.
Coleman, Thomas E., Jr.: *See*—
Jameson, Thomas M., Jr., and Coleman. 3,038,396.
Coler, Myron A.: *See*—
Adler, Edward I. 3,024,296.
Louis, Arnold S., and Coler. 3,023,261.
Coler, Myron A. Method of making electrically conductive terminals. 3,044,151, 7–17–62, Cl. 29—155.55.
Coler, Myron A., and S. A. Corren. Flexible battery. 3,023,259, 2–27–62, Cl. 136—6.
Coler, Myron A., and S. A. Corren. Coiled electrode battery. 3,023,260, 2–27–62, Cl. 136—13.
Coler, Myron A., J. A. Cutler, and A. S. Louis. Destaticized vinyl-type resins. 3,025,257, 3–13–62, Cl. 260—32.6.
Coler, Myron A., and A. S. Louis. Composition comprising a polymer of an ethylenic monomer and a salt of an ester of a carboxylic acid and hydroxyalkylated alkylene polyamine. 3,051,663, 8–28–62, Cl. 252—500.
Coles, Donald K., and W. R. Frame, to International Telephone and Telegraph Corp. Joule-Thomson effect gas liquefier. 3,048,021, 8–7–62, Cl. 62—36.
Coles, Harold J., and G. W. Sneddon, to Mitchell Engineering Ltd. Nuclear reactor steam generating plant. 3,068,164, 12–11–62, Cl. 204—193.2.

Coles, Harold W., and S. E. Rohowetz, to United States of America, Army. Coating of metal with layers of titanium esters and a polymer by exposure to high energy irradiation. 3,061,483, 10–30–62, Cl. 148—6.14.

Coles, Henry L. : *See*—
Hebert, John W., Schubert, and Coles. 3,043,245.

Coles, Louis U. Golf putting device. 3,065,971, 11–27–62, Cl. 273—177.

Coles, Walter V., and G. H. Wilson, to Courtaulds Ltd. Threading textile and similar machinery. 3,060,729, 10–30–62, Cl. 73—95.5.

Colestock, Neil E., to Clark Equipment Co. Method of forming gear blanks. 3,069,756, 12–25–62, Cl. 29—159.2.

Coley, Clarence N. Suction tube filling end trap for looms. 3,016,069, 1–9–62, Cl. 139—256.

Coley, Nelson B., to General Railway Signal Co. Cyclical code oscillator with magnetically biased torsion pendulum. 3,016,479, 1–9–62, Cl. 317—171.

Coley, Nelson B., to General Railway Signal Co. Indicator display system. 3,054,995, 9–18–62, Cl. 340—334.

Coley, Nelson B., S. M. Phelps, and F. A. Daly, to General Railway Signal Co. Posting and transfer system for display indicators. 3,054,993, 9–18–62, Cl. 340—324.

Coley, Stanley E. Bearings. 3,043,634, 7–10–62, Cl. 308—6.

Colgan, William L., to Applied Power Industries, Inc. Hydraulic jack assemblage. 3,045,653, 7–24–62, Cl. 121—46.

Colgate-Palmolive Co. : *See*—
Apperson, Lester D., and Bouchal. 3,034,967.
Dominik, Francis A. 3,020,122.
Fischer, Charles F., and Austin. 3,016,574.
Gross, William L. 3,024,069.
Jaeger, Joseph F., and Giles. 3,017,068.
Kenney, Edward J., and Vitale. 3,037,854.
King, William J. 3,029,191.
Kirschenbauer, Hans G. 3,042,621.
Kirschenbauer, Hans G. 3,042,622.
Miles, Gilbert D. W. 3,062,411.
Monick, John A. 3,035,835.
Tonzetich, Joseph. 3,033,736.
Turck, Joseph A. Jr. 3,050,310.
Vitale, Peter T., and Marion. 3,034,169.
Wei, Ling. 3,060,096.
Williams, Ross R. 3,057,467.
Wixon, Harold E. 3,052,635.

Colgate, Richard M. : *See*—
Colgate, Stirling A. 3,018,396.

Colgate, Stirling A. : *See*—
Kruskal, Martin, Tuck, Colgate, and Rosenbluth. 3,016,342.

Colgate, Stirling A., 50% to R. M. Colgate. Solenoid stator dynamoelectric machines. 3,018,396, 1–23–62, Cl. 310—268.

Colicci, Donato C. D. Plastic slicing knife gauge. 3,040,431, 6–26–62, Cl. 30—284.

Colijn, Hendrik : *See*—
Abkowitz, Eugene V., and Colijn. 3,033,389.

Colin, Pierre, to Les Usines de Melle (Societe Anonyme). Process for fermenting sugar-containing liquid with yeast. 3,022,225, 2–20–62, Cl. 195—37.

Colin-Smith, Eric, to Combustion Research Corp. Method and apparatus for atomizing liquids. 3,062,273, 11–6–62, Cl. 158—7.6.

Collar, Rolland W., to Roylyn Inc. Coupling nozzle. 3,023,029, 2–27–62, Cl. 284—19.

Collard, Clarence A., and J. D. De Shazo, to Phillips Petroleum Co. Adhesive for composite-type propellants. 3,031,969, 5–1–62, Cl. 102—98.

Collardeau, Georges, and F. Pierrot, to Societe des Usines Chimiques Rhone-Poulenc. Copolymers of an unsaturated monomer and an unsaturated polyester. 3,065,199, 11–20–62, Cl. 260—45.4.

Collaro Ltd. : *See*—
Humby, Edward T. 3,048,429.

Colle, Jean : *See*—
Leclercq, Rene, and Colle. 3,058,936.

Collen, Edwin G. : *See*—
Wagoner, Robert V., Jr., and Collen. 3,037,284.

Collen, Edwin G., and R. V. Wagoner, to General Precision Inc. Space navigation sextant. 3,027,797, 4–3–62, Cl. 88—2.4.

Collett, Charles H. Protector for well pipe. 3,019,063, 1–30–62, Cl. 308—4.

Collett, Charles H. Well pipe protector. 3,051,532, 8–28–62, Cl. 308—4.

Collette, Floyd E. Suspension device for traveling belt conveyor. 3,019,911, 2–6–62, Cl. 211—122.

Colletti, Joseph J., 33⅓ to R. von K. Bruns. Orbiting satellite toy. 3,015,908, 1–9–62, Cl. 46—52.

Collett-Week Corp. : *See*—
Sevigne, Frank J. 3,035,981.

Colley, Rowan H. : *See*—
Keen, John M. S., and Colley. 3,034,296.

Colley, Rowan H., to Rolls-Royce Ltd. Aircraft reaction-propulsion units or installations. 3,019,599, 2–6–62, Cl. 60—35.54.

Colley, Rowan H., to Rolls-Royce Ltd. Exhaust nozzle control for a twin spool jet engine. 3,022,629, 2–27–62, Cl. 60—35.6.

Colley, Russell S., to The B. F. Goodrich Co. Flying suit helmet with penetrable sealing closure structure. 3,067,425, 12–11–62, Cl. 2—6.

Colli, Eduard. Hairpins. 3,038,479, 6–12–62, Cl. 132—50.

Collidotronics, Inc. : *See*—
Ostroff, Harry, and Levitt. 3,021,615.

Collie, Robert M., and H. B. Jackson. Mechanical trash rake. 3,018,893, 1–30–62, Cl. 210—159.

Collie, Stafford D., to Continental Can Co., Inc. Spout equipped carton. 3,017,065, 1–16–62, Cl. 229—17.

Collier Carbon and Chemical Corp. : *See*—
Young, Donald C. 3,044,851.
Young, Donald C. 3,044,854.
Young, Donald C. 3,044,855.
Young, Donald C. 3,046,105.

Collier, Charles P. : *See*—
McConnell, John E. W., and Collier. 3,042,533.

Collier, Lucy A. Sanitary garment. 3,035,576, 5–22–62, Cl. 128—284.

Collin, Fredrik C., and T. Bäsen, to Elektrokemisk A/S. Process of reducing iron oxides. 3,033,673, 5–8–62, Cl. 75—34.

Collin, Herbert S. Carton for garments. 3,037,617, 6–5–62, Cl. 206—7.

Collin, Jay H., and J. C. Garrett ; said Garrett assor. to said Collin. Flaring tool. 3,052,279, 9–4–62, Cl. 153—79.

Collin, Jay H., and J. C. Garrett ; said Garrett assor. to said Collin. Flaring tool. 3,052,280, 9–4–62, Cl. 153—79.

Collin, Paul N. : *See*—
Lundgren, Herbert K., Cook, and Collin. 3,025,575.

Collin, Paul N., and A. M. Cook, to Allmetal Weatherstrip Co. Window sash mounting. 3,026,581, 3–27–62, Cl. 20—52.

Collin, Raymond H. Rotatable pick-up and deposit device. 3,038,620, 6–12–62, Cl. 214—147.

Collings, Dana B., to Buxton, Inc. Flush bar fastener. 3,026,-921, 3–27–62, Cl. 150—42.

Collings, Dana B., to Buxton, Inc. Key case construction. 3,067,793, 12–11–62, Cl. 150—40.

Collings, David A. : *See*—
Szabo, William F., Collings, and Cortelli. 3,032,146.

Collings, William R., to Dow Corning Corp. Silicone elastomers heat stabilized with ferric hydroxide. 3,061,565, 10–30–62, Cl. 260—29.1.

Collins & Aikman Corp. : *See*—
Keen, William R. 3,017,847.
McNally, Arthur F., and White. 3,066,380.

Collins, Albert R. : *See*—
Dow, Walter O., and Collins. 3,038,987.

Collins, Aubrey L., to Limited Engineering Group Ltd. Speed governor for electric motors. 3,028,462, 4–3–62, Cl. 200—80.

Collins, Bernard P., and D. V. Shepherd, to International Computers and Tabulators Ltd. Magnetic signal storage arrangements. 3,032,884, 5–8–62, Cl. 33—185.

Collins, Coy W., to Prestole Corp. Plastic locking nut with sealing flange. 3,030,997, 4–24–62, Cl. 151—37.

Collins, Donald F., and D. E. Emmons, to Parker-Hannifin Corp. Coupling for tubes. 3,069,187, 12–18–62, Cl. 285—110.

Collins, Donald F., and F. W. Cowdrey, to Parker-Hannifin Corp. Closure cap for tube couplings. 3,070,128, 12–25–62, Cl. 138—89.

Collins, Donald P., Jr., to Harvest Queen Mill & Elevator Co. Access joint assembly. 3,067,721, 12–11–62, Cl. 118—408.

Collins, Frank E. Marking device. 3,029,773, 4–17–62, Cl. 118—1.

Collins, Galen F., to Miles Laboratories, Inc. Diagnostic composition for detecting glucose. 3,050,373, 8–21–62, Cl. 23—253.

Collins, Galen F., to Miles Laboratories, Inc. pH indicator units in tablet form. 3,051,661, 8–28–62, Cl. 252—408.

Collins, Galen F., to Miles Laboratories, Inc. Determination of albumin in liquids. 3,063,812, 11–13–62, Cl. 23—230.

Collins, Garry G., Jr., and K. W. Olson, to The Bendix Corp. Gas disarge device. 3,019,365, 1–30–62, Cl. 313—213.

Collins, George C., to Zenith Radio Corp. Turret tuner. 3,016,505, 1–9–62, Cl. 334—51.

Collins, George E., and W. H. Rees, to The British Cotton Industry Research Association. Metallized fabrics. 3,034,-940, 5–15–62, Cl. 154—46.

Collins, Harold B., Jr., to Philco Corp. Single channel stereophonic system. 3,043,914, 7–10–62, Cl. 179—15.

Collins, Harold B., Jr., to Philco Corp. Amplitude limiter bridge with conjugate signal input and limited output. 3,068,419, 12–11–62, Cl. 328—171.

Collins, Harold B., Jr., and D. E. Marshall, Jr., to Philco Corp. Multiplex stereophonic transmitting and receiving system. 3,069,505, 12–18–62, Cl. 179—15.

Collins, Harry V. : *See*—
Stough, Gerald D., and Collins. 3,018,079.

Collins, Hight M., Jr. Machine for installing and removing poles. 3,058,533, 10–16–62, Cl. 175—201.

Collins, Jack D., to Ford Motor Co. Drive chain. 3,046,806, 7–31–62, Cl. 74—245.

Collins, James T., to Avco Corp. Transistor frequency multiplier. 3,030,566, 4–17–62, Cl. 321—69.

Collins, James W., to United Aircraft Corp. Friction free transmission. 3,058,360, 10–16–62, Cl. 74—18.1.

Collins, Jerry L. Tire deflation indicator. 3,055,998, 9–25–62, Cl. 200—61.23.

Collins, John E., to International Basic Economy Corp. Solenoid valve. 3,023,777, 3–6–62, Cl. 137—620.

Collins, John E., to International Basic Economy Corp. Annular packing member. 3,028,165, 4–3–62, Cl. 277—206.
Collins, John E., to International Basic Economy Corp. Valve. 3,035,611, 5–22–62, Cl. 137—623.
Collins, John F.: *See*—
McGurty, James A., and Collins. 3,015,559.
McGurty, James A., and Collins. 3,017,265.
McGurty, James A., and Collins. 3,027,252.
Peters, Theodore J., and Collins. 3,047,504.
Collins, Johnnie C., to Servis Equipment Co. Windrow attachment for rotary cutter. 3,037,341, 6–5–62, Cl. 56—189.
Collins, Joseph F. Trolling lure. 3,035,368, 5–22–62, Cl. 43—42.39.
Collins, Joseph M. Combined litter extension pillow support and back rest. 3,042,934, 7–10–62, Cl. 5—9.
Collins, Joseph M. Securing clamp for traction device. 3,054,590, 9–18–62, Cl. 248—230.
Collins, Lowell J. Combination curd drainer and cottage cheese mixer. 3,016,610, 1–16–62, Cl. 31—48.
Collins, Lowell J. Drainer for curd and the like. 3,032,877, 5–8–62, Cl. 31—46.
Collins, Milford P.: *See*—
Patterson, William E., Terry, Beaty, Kerr, and Collins. 3,030,988.
Collins, Paul T. Clip. 3,016,589, 1–16–62, Cl. 24—3.
Collins Radio Co.: *See*—
Bann, Michael S. 3,019,667.
Barry, George H. 3,049,673.
Barry, George H., and Doelz. 3,024,444.
Berry, David G., and Du Hamel. 3,041,606.
Bolle, Victor W. 3,047,863.
Broadhead, Samuel L., Jr. 3,054,196.
Broadhead, Samuel L., Jr., and Kemper. 3,049,667.
Broadhead, Samuel L., Jr., and Michael. 3,036,211.
Broadhead, Samuel L., Jr., and Schoenike. 3,056,087.
Chapman, Thomas W. 3,056,090.
Coble, Robert B. 3,028,119.
Craiglow, Robert L. 3,020,421.
Davis, Gareth J., and Peropoulos. 3,035,990.
Du Hamel, Raymond H., and Berry. 3,059,234.
Ek, Gayne R. 3,064,197.
Feigleson, Charles O. 3,020,459.
Ford, David W. 3,024,391.
Frye, Eugene O. 3,032,715.
Goldman, Bernard M. 3,068,463.
Graham, John F. 3,020,502.
Haerther, Lester W., and Walker. 3,019,532.
Hamer, Morgan F., and Livingston. 3,035,806.
Hart, Robert T. 3,032,751.
Hedgcock, Wendell T. 3,056,076.
Hoglund, Kenneth M. 3,056,079.
Hudock, Edward. 3,036,302.
Johnson, Frederick W. 3,020,507.
Johnson, Raymond K. 3,031,866.
Kennedy, William A. 3,064,165.
Kittrell, Richard L., Luik, and Welch. 3,038,089.
Lehman, Harry W. 3,067,633.
Loposer, Thomas L. 3,056,109.
Majerus, John B., and Totten. 3,032,757.
Martin, Donald L. 3,024,420.
McCoy, David O., and Luik. 3,030,621.
McCreary, Ralph L. 3,056,131.
Nichols, Richard A. 3,040,260.
Ocnaschek, Frank J. 3,058,242.
Patton, Henry W. 3,038,114.
Pierce, Roger J., and Abrams. 3,020,397.
Rhodes, Melvin H., and Walker. 3,041,607.
Rogers, Robert H., and Carter. 3,050,642.
Rowley, Robert J. 3,064,216.
Secretan, Frank. 3,020,485.
Secretan, Frank. 3,024,417.
Secretan, Frank. 3,028,551.
Shockley, William L. 3,020,492.
Smith, Bobbie G. 3,024,200.
Snogen, Leo R., Jr., and Svien. 3,064,211.
Stubler, William B. 3,049,016.
Tottingham, Roy D. 3,059,129.
Turner, Daniel L. 3,020,529.
Welch, Jack D. 3,036,262.
Young, Ray L., and Melchert. 3,064,172.
Collins, Ralph D. Telephone identification system. 3,036,159, 5–22–62, Cl. 179—17.
Collins, Raymond F.: *See*—
Ashley, Julius N., Collins, and Davis. 3,052,722.
Collins, Raymond F., and M. Davis, to May & Baker Ltd. *p*-aminophenoxyalkanes. 3,060,190, 10–23–62, Cl. 260—326.
Collins, Rex W.: *See*—
Howarth, Arthur J., and Collins. 3,026,730.
Collins, Robert J., to E. I. du Pont de Nemours and Co. Process of coloring by oxidizing solid polyesters or terephthalic acid and glycols and reacting with hydrazine compounds and products produced thereby. 3,029,121, 4–10–62, Cl. 8—4.
Collins, Ronald T. H., T. W. Welch, and M. J. Cowlard, to The Decca Record Co. Ltd. Corner reflector formed of taut flat reflecting elements with resilient peripheral tension frames. 3,041,604, 6–26–62, Cl. 343—18.
Collins, Ruby L. Ski tip. 3,066,326, 12–4–62. Cl. 9—310.
Collins, Russell L., to Phillips Petroleum Co. Activated carbon black. 3,029,576, 4–17–62, Cl. 55—68.
Collins, Samuel C., to Joy Mfg. Co. Apparatus for and method of separating gases. 3,060,697, 10–30–62, Cl. 62—13.
Collins, Solomon M., to Clopay Corp. Folding closure. Re. 25,112, 1–9–62, Cl. 160—199.
Collins, Tappan, to National Steel Corp. Ventilating tunnel. 3,057,286, 10–9–62, Cl. 98—56.
Collins, Thomas H., to The Detroit Edison Co. Shut-off valve for pipe lines. 3,064,935, 11–20–62, Cl. 251—61.
Collins, Vernon K.: *See*—
Levin, Ezra, Collins, Varner, Mosser, and Wolf. 3,031,376.
Collinson, Roy G., and T. T. Jones, to Bakelite Ltd. Process for the polymerization of ethylenically unsaturated compounds. 3,035,032, 5–15–62, Cl. 260—87.1.
Collischan, Fritz, to G. Kohler. Toy figures. 3,060,630, 10–30–62. Cl. 46—98.
Collischan, Fritz, to G. Kohler. Toy figures, particularly toy birds. 3,060,631, 10–30–62, Cl. 46—118.
Collischan, Fritz, to G. Kohler. Sound-producing device for toys for imitating voices, particularly of birds. 3,064,388, 11–20–62, Cl. 46—189.
Collison, William F. Angular velocity and angular position measurement. 3,037,121, 5–29–62, Cl. 250—203.
Colom, Donald J., to Weltronic Co. Motor controlling apparatus. 3,045,163, 7–17–62, Cl. 318—227.
Collopy, Thomas J.: *See*—
Reinhart, Gregory M., and Collopy. 3,063,792.
Collum, Howard V. Convertible furniture. 3,058,776, 10–16–62. Cl. 297–122.
Collyer, Philip W.: *See*—
Barnes, Robert B., and Collyer. 3,034,398.
Collyer, Philip W., to Barnes Engineering Co. Visual monitoring device. 3,031,919, 5–1–62, Cl. 88—14.
Collyer, Philip W., and R. B. Barnes, to Barnes Engineering Co. Spectrometer. 3,025,744, 3–20–62, Cl. 88—14.
Colman, Benjamin W. Popcorn package. 3,052,554, 9–4–62, Cl. 99—171.
Colman, Philip A., and E. C. Frost, to Lockheed Aircraft Corp. Rotatable radomes for aircraft. 3,045,236, 7–17–62, Cl. 343—705.
Colman, Robert. Radiant energy meter. 3,019,700, 2–6–62, Cl. 88—23.
Colmer, Henry G., Jr. Take-up device. 3,065,007, 11–20–62, Cl. 287—60.
Colodny, Samuel H., to Philco Corp. Phase-frequency control system for carrier-multiplex receiver. 3,031,529, 4–24–62, Cl. 179—15.
Colombini, John S. Knockdown door. 3,019,867, 2–6–62, Cl. 189—46.
Colombo, Roberto, to S.A.S. Lavorazione Materie Plastische (L.M.P.) di M. I. Colombo & C. Method and apparatus for manufacturing corrugated thermoplastic sheets. 3,024,496, 3–13–62, Cl. 18—19.
Colonial Alloys Co.: *See*—
Cohn, Charles C. 3,030,238.
Cohn, Charles C. 3,030,963.
Cohn, Charles C. 3,066,681.
Colonial Hills Bowl, Inc.: *See*—
Blough, Henry K. 3,050,306.
Colonias, John: *See*—
Cook, Lucien H., and Colonias. 3,053,891.
Colonna, Joseph J., to J. R. Parks. Liquid mixing apparatus. 3,024,806, 3–13–62, Cl. 137—604.
Color Corp. of America: *See*—
Rowe, Eugene C., Sinn, and Steinel. 3,055,557.
Rowe, Eugene C., Sinn, and Steinel. 3,055,558.
Color Process Co., Inc.: *See*—
Sperry, Herbert C. 3,050,887.
Colorado Fuel and Iron Corp., The: *See*—
Feifert, Edward A. 3,041,001.
Govea, Joseph R. 3,044,501.
Nelson, John R., and Gosselin. 3,018,128.
Nixon, John E. 3,041,044.
Colorado Mfg. & Mining Co., Inc.: *See*—
Burkett, Albert L., and Sweet. 3,065,919.
Colorado Oil and Gas Corp.: *See*—
Rose, Alexander D. 3,036,466.
Colorigh, Vincent L. Tractor load bed with raisable fifth wheel from bed level position. 3,066,956, 12–4–62, Cl. 280—438.
Colorsound Mfg. Co. Inc.: *See*—
O'Reilly, Royal V. 3,038,061.
Colorspace Patent Associates: *See*—
Epstein, Hermann and E. J. 3,052,009.
Colosimo, Samuel R. Traction device. 3,051,211, 8–28–62, Cl. 152—220.
Colpo, Albert D. Chalkboard and supporting means therefor. 3,043,023, 7–10–62, Cl. 35—63.
Colpo, Jesse. Tractor-trailer connection device. 3,037,792, 6–5–62, Cl. 280—432.
Colsher, James W., and G. W. Taylor. Bird release device. 3,063,412, 11–13–62, Cl. 119—15.6.
Colson Corp., The: *See*—
Emary, Robert J. 3,021,111.
Fields, Theodore, and Carlson. 3,027,891.
Colston, Charles, Ltd.: *See*—
Gilson, Robert John. 3,049,132.
Wickham, Alfred H., and Gilson. 3,026,046.
Colston, John E. Art work and frame. 3,038,272, 6–12–62, Cl. 41—10.
Colt, Rutger B., to The Bendix Corp. Buoy and like floating object incorporation means for resiliently connecting same to its anchor. 3,020,567, 2–13–62, Cl. 9—8.

Colt Ventilation Ltd.: *See*—
Rampley, Kenneth. 3,053,165.
Colt, Victor L., and C. B. Willock, to The Peters Co. Powered dirigible wheel unit. 3,064,745, 11–20–62, Cl. 180—6.24.
Colten, Frank P., and J. J. O'Neil, to General Foods Corp. Process for preparing a cacao product. 3,056,677, 10–2–62, Cl. 99—26.
Colten, Robert B.: *See*—
Bolston, Leonard, Bozymowski, and Colten. 3,054,048.
Colten, Robert B., and R. W. Johnston, to General Motors Corp. Non-ambiguous display ultransonic testing apparatus. 3,053,080, 9–11–62, Cl. 73—67.9.
Colten, Robert B., A. F. Scarpelli, and G. E. Wanttaja, to General Motors Corp. Electric discharge machining apparatus. 3,059,150, 10–16–62, Cl. 315—357.
Colthup, Elisabeth C.: *See*—
Meriwether, Lewis S., and Colthup. 3,066,119.
Colton, Arthur, Co.: *See*—
Edgar, Hugh C., and Gajda. 3,016,027.
Gajda, Leo P., Edgar, and Kazmierczak. 3,026,594.
Gajda, Leo P., and Kazmierczak. 3,044,599.
Colton, Evan T.: *See*—
Young, Frink M., and Colton. 3,051,791.
Colton, Frank B., to G. D. Searle & Co. Optionally 17-alkylated and 6-methylated 5-androst-1-ene 3β,17β-diol and esters thereof. 3,031,473, 4–24–62, Cl. 260—397.5.
Colton, Frank B., and R. E. Ray, to G. D. Searle & Co. Alkyl ethers of 17-(hydrocarbon-substituted)ester-4-ene-3, 17-diols. 3,068,249, 12–11–62, Cl. 260—397.5.
Colton, John W.: *See*—
Deprez, Andre C., and Colton. 3,031,515.
Colton, John W., to Scientific Design Co., Inc. Lithium chloride production. 3,024,082, 3–6–62, Cl. 23—27.
Colton, John W., to Scientific Design Co., Inc. Lithium chloride recovery. 3,024,083, 3–6–62, Cl. 23—27.
Colton, John W., to Scientific Design Co., Inc. Chemical process. 3,038,315, 6–12–62, Cl. 62—20.
Colton, Nelson B.: *See*—
Downing, James H., Colton and Chadwick. 3,048,484.
Colton, Roland J. Exhaust valve lifter for internal combustion engines. 3,066,659, 12–4–62, Cl. 123—90.
Colucci, Frank F. Game device. 3,016,242, 1–9–62, Cl. 273—102.
Colucci, Guido J., and J. F. Maxwell, to E. F. Houghton & Co. Hydraulic fluid emulsion. 3,039,969, 6–19–62, Cl. 252—79.
Columbia Broadcasting Systems, Inc.: *See*—
Bachman, William S. 3,053,943.
Bachman, William S., and Porrata. 3,055,989.
Bambara, Joseph E., and Christensen. 3,042,825.
Birnie, Bruce A. 3,050,677.
Chick, Russell W., Christofferson, and Vigneau. 3,047,-933.
Coleman, Charles H. 3,034,065.
Crowhurs, Norman H. 3,035,120.
Doncaster, Daniel P. 3,044,783.
Praria, Guy B. 3,064,187.
Columbia Broadcasting System, Inc.: *See*—
Neenan, Charles J. 3,020,365.
Columbia Cellulose Co. Ltd.: *See*—
Wayman, Morris, Martin, and Graf. 3,067,107.
Wilson, Jack W., and O'Mera. 3,067,086.
Columbia Iron Mining Co.: *See*—
Bunnell, Wendell L. 3,018,874.
Columbia Plastics Corp.: *See*—
Mushkin, Nick M. 3,024,578.
Columbia Ribbon and Carbon Mfg. Co., Inc.: *See*—
Newman, Douglas A. 3,022,880.
Newman, Douglas A. 3,031,327.
Newman, Douglas A. 3,031,958.
Newman, Douglas A. 3,036,924.
Newman, Douglas A. 3,064,111.
Newman, Douglas A. 3,065,099.
Newman, Douglas A., and Dixon. 3,017,297.
Newman, Douglas A., and Dixon. 3,062,676.
Newman, Douglas A., and Schlotzhauer. 3,037,879.
Newman, Douglas A., and Schlotzhauer. 3,054,692.
Newman, Douglas A., and Schlotzhauer. 3,057,999.
Roulston, Laurence C. 3,035,936.
Columbian Carbon Co.: *See*—
Gholson, Roy L. 3,019,093.
Hallum, Jules V. 3,058,894.
Heller, George L. 3,032,430.
Heller, George L., Warner, and De Land. 3,046,096.
Heller, George L., and White. 3,048,559.
Columbian Rope Co.: *See*—
Simpson, James S. 3,016,683.
Columbus Auto Parts Co., The: *See*—
Flumerfelt, William A. 3,018,124.
Flumerfelt, William A. 3,062,572.
Flumerfelt, William A. 3,063,744.
Flumerfelt, William A. 3,065,983.
Klages, John W. 3,015,412.
Columbus Construction Co.: *See*—
McRee, Clarence E. 3,056,267.
Columbus Dental Mfg. Co., The: *See*—
Moyer, James H. 3,041,727.
Columbus McKinnon Corp.: *See*—
Devonshire, William H. 3,028,455.
Devonshire, William H., Robins, and Schreyer. 3,064,586.
Columbus McKinnon Corp.: *See*—Continued
Manney, Charles J. 3,064,837.
Parker, Humphrey F., and Robins. 3,049,217.
Parker, Humphrey F., and Robins. 3,068,808.
Parker, Humphrey F., and Robins. 3,068,809.
Schaeffer, Louis P. 3,061,210.
Schreyer, Kenneth D. 3,052,343.
Schreyer, Kenneth D. 3,059,589.
Schreyer, Kenneth D. 3,060,866.
Schreyer, Kenneth D. 3,063,545.
Columbus Plastic Products, Inc.: *See*—
Stansbury, Benjamin H., Jr., and Teague. 3,027,041.
Colvin, Charles H., to Colvin Laboratories, Inc. Pressure transducer. 3,038,339, 6–12–62, Cl. 73—407.
Colvin, Ellie H., and I. L., to Texas Mosaic Co. Mosaic plaque and method of forming. 3,025,625, 3–20–62, Cl. 41—23.
Colvin, Ina L.: *See*—
Colvin, Ellie H. and I. L. 3,025,625.
Colvin Laboratories, Inc.: *See*—
Colvin, Charles H. 3,038,339.
Colwell, Charles E., and R. C. Miller, to Union Carbide Corp. Coagulation. 3,020,231, 2–6–62, Cl. 210—54.
Colwell, Donald L., to Apex Smelting Co. Aluminum base alloy for die castings. 3,019,101, 1–30–62, Cl. 75—141.
Colwell, Elmer W.: *See*—
Rasmussen, Kai, Hanson, and Colwell. 3,035,691.
Colwill, Herbert W.: *See*—
Raney, Russell R., Bing, and Colwill. 3,025,067.
Colwill, Richard H., and C. J. Levine, to Burroughs Corp. Forming stripes of magnetic material. 3,023,123, 2–27–62, Cl. 117—44.
Coma, James G., and V. G. Gerttula, to Crown Zellerbach Corp. Production of dialkyl sulfoxides. 3,045,051, 7–17–62, Cl. 260—607.
Comac Electric Co.: *See*—
Valleau, Robert L. 3,036,246.
Comanor, Milton, to Yardney International Corp. Battery structure. 3,050,576, 8–21–62, Cl. 136—6.
Comapco, Inc.: *See*—
Greene, Howard M., Jr. 3,041,459.
Comar, Majda: *See*—
Ernst, Robert, and Comar. 3,046,231.
Combo-Craft, Inc.: *See*—
Howe, Wilson S. 3,042,942.
Combrisson, Jean: *See*—
Abragam, Anatole, Combrisson, and Solomon. 3,049,661.
Abragam, Anatole, Combrisson, and Solomon. 3,049,662.
Abrahamsen, Roy F. 3,048,153.
Funk, Max O. 3,050,202.
Combs, Clyde M. Adjustable display and storage rack. 3,041,041, 1–23–62, Cl. 211—49.
Combs, Jimmy P., and P. H. van Anrooy, to Zenith Radio Corp. Signal-translating channel. 3,024,306, 3–6–62, Cl. 178—5.8.
Combs, Robert L.: *See*—
Guillet, James E., Combs, and Tholstrup. 3,057,810.
Combs, Theodore C., and J. M. Dobbie, to Zero Mfg. Co. Prefabricated shipping container. 3,044,656, 7–17–62, Cl. 220—4.
Combs, Theodore C., and J. M. Dobbie, to Zero Mfg. Co. Shipping container. 3,044,658, 7–17–62, Cl. 220—80.
Combustion Engineering, Inc.: *See*—
Argersinger, John I., and Blaskowski. 3,055,181.
Armacost, Wilbur H. 3,038,453.
Barto, Robert M., Jr. 3,063,917.
Blaskowski, Henry J. 3,053,049.
Braddon, George D. 3,062,508.
Burk, Le Roy, and Fenrich. 3,064,593.
Chandler, Victor. 3,062,625.
Chapman, Edward C. 3,065,536.
Gordon, Charles W. 3,049,200.
Gordon, Charles W., and Tucker. 3,031,982.
Herold, Conrad J. 3,066,533.
Hindenlang, Arthur W. 3,065,783.
Hochmuth, Frank W. 3,069,715.
Huet, André. 3,022,811.
Jackson, Alonzo C. 3,031,554.
Kochey, Edward L. 3,050,042.
Mumper, Henry D. 3,064,811.
Patterson, Robert C. 3,017,191.
Provenzano, Arthur D. 3,021,884.
Rascati, Salvatore A., and Peterson. 3,021,419.
Smith, Edmond L. 3,047,362.
Speer, Elio J. 3,047,272.
Ward, Charles T., Oliver, and Pandelis. 3,025,596.
Wesche, Ernest. 3,046,674.
Witzke, Ernest C. 3,030,937.
Witzke, Ernest C. 3,046,957.
Combustion Research Corp.: *See*—
Colin-Smith, Eric. 3,062,273.
Comeau, Ernest J., Jr., and J. P. Dankese, to W. R. Grace & Co. Separators for electric storage batteries. 3,026,366, 3–20–62, Cl. 136—145.
Comeau, Joseph L. and M. S. Kitchen utensil. 3,059,252, 10–23–62, Cl. 7—14.1.
Comeau, Mary S.: *See*—
Comeau, Joseph L. and M. S. 3,059,252.
Comeaux, Roy V.: *See*—
Love, Robert M., Comeaux, Winegartner, Cornell, and Lewis. 3,041,274.
Comer, D. O.: *See*—
Young, Ralph E. 3,046,596.

Comerci, Frank A., R. Schwartz, and S. I. Wilpon, to United States of America, Navy. Non-Magnetic pickup loop for making absolute measurement of signal strength on magnetic recordings. 3,046,358, 7–24–62, Cl. 179—100.2.
Comerford, Matthias F.: *See*—
Basche, Malcolm, Comerford, Doyle, and Hetherington. 3,020,387.
Comerford, William H., Jr., to Controls Co. of America. Motor reversing control. 3,048,757, 8–7–62, Cl. 318—285.
Comerford, William H., Jr., and H. S. Tice, Jr., to Controls Co. of America. Inverser timer motor control. 3,048,758, 8–7–62, Cl. 318—285.
Comerio Ercole S.p.A.: *See*—
Rezzonico, Carlo. 3,037,370.
Comes, George N.: *See*—
Babayan, Vigen K., and Comes. 3,051,577.
Cometti, Andre: *See*—
Gailliot, Paul, Debarre, and Cometti. 3,035,076.
Comfort Lines, Inc.: *See*—
Rossi, Joseph V., and Goldman. 3,058,544.
Comfort, Samuel T., to Allis-Chalmers Mfg. Co. Lift truck mast pulldown cylinder assembly. 3,042,149, 7–3–62, Cl. 187—9.
Comfort, Samuel T., to Allis-Chalmers Mfg. Co. Reservoir for hydraulic system of an engine driven vehicle. 3,065,-601, 11–27–62, Cl. 60—52.
Comfort Slipper Corp.: *See*—
Rosenbaum, Felix. 3,061,949.
Comings, Edward W., H. A. McLain, and J. E. Myers, to Purdue Research Foundation. Drying process and apparatus for heat-sensitive materials. 3,038,533, 6–12–62, Cl. 159—4.
Comino, Demetrius, to Dexion Ltd. Constructional elements, particularly such consisting of slotted metal bars of angle section. 3,025,933, 3–20–62, Cl. 189—34.
Comins, David B.: *See*—
Trent, Edward M., and Comins. 3,033,694.
Comisarow, Paul: *See*—
Ainslie, Robert E., Comisarow, Hutchins, and Zinn. 3,064,568.
Comiskey, Anthony T., Sr. Drill grinding machine. 3,056,-237, 10–2–62, Cl. 51—33.
Commanday, Maurice R., and J. R. Darnell, to Chromizing Corp. Metal coating process. 3,015,579, 1–2–62, Cl. 117—107.
Commanday, Maurice R., and J. R. Darnell, to Chromizing Corp. Metal coating and brazing process. 3,030,491, 4–17–62, Cl. 219—76.
Commercial Cam & Machine Co.: *See*—
McDonald, James A., and Evans. 3,049,017.
Commercial Controls Corp.: *See*—
Blodgett, Edwin O. 3,025,498.
Blodgett, Edwin O. 3,037,075.
Blodgett, Edwin O., and Denis. 3,025,941.
Blodgett, Edwin O., and Stiffler. 3,037,448.
Shaver, Jay C. 3,039,679.
Commercial Engineering Corp.: *See*—
Rather, Roy L., and Goerland. 3,060,886.
Commercial Envelope Mfg. Co., Inc.: *See*—
Aronson, Theodore F., and Lyon. 3,053,129.
Commercial Picture Equipment, Inc.: *See*—
Wilcox, Harvey N. 3,041,032.
Wilcox, Harvey N., and Smith. 3,047,061.
Commercial Shearing and Stamping Co., The: *See*—
Kane, Thomas C. 3,046,924.
Proctor, Robert V. 3,023,756.
Williams, Arthur J. 3,054,420.
Commercial Solvents Corp.: *See*—
Agne, Robert J. 3,066,011.
Bell, Wilton O., and Neckar. 3,054,797.
Bennett, Edward O., and Hodge. 3,024,190.
Bennett, Edward O., and Hodge. 3,024,192.
Bennett, Edward O., and Hodge. 3,054,749.
Campbell, Arthur W. 3,015,674.
Chandler, Ollie W. 3,066,172.
Harker, Robert J. 3,039,961.
Hodge, Edward B. 3,024,232.
Hodge, Edward B. 3,054,720.
Hodge, Edward B. 3,054,721.
Hodge, Edward B. 3,054,748.
Jones, Lawrence R. 3,024,202.
Kosewicz, John S. 3,033,238.
Kosewicz, John S. 3,054,665.
Kosewicz, John S., Gill, and Cretney. 3,039,851.
Lee, Yoonsik. 3,066,173.
McCutchan, Winfred N., and Hidy. 3,061,521.
Miescher, Guido M. 3,066,078.
Rosenberg, Adolf. 3,015,563.
Runge, Wallace F. 3,049,772.
Stengel, Leonard A. 3,021,207.
Stengel, Leonard A. 3,066,168.
Stengel, Leonard A., and Toops. 3,054,702.
Stengel, Leonard A., and Toops. 3,061,489.
Commins, James A., to Curtiss-Wright Corp. Radioactive source container. 3,026,414, 3–20–62, Cl. 250—106.
Commissariat a l'Energie Atomique: *See*—
Abragam, Anatole, Combrisson, and Solomon. 3,049,661.
Abragam, Anatole, Combrisson, and Solomon. 3,049,662.
Auzolle, Robert, Chaumette, Garin, and Prugne. 3,045,-642.
Berge, Pierre, and Tournarie. 3,061,027.
Bonnet, Georges, and Garliod. 3,051,874.
Bonnet, Georges, and Petit. 3,064,967.
Commissariat a l'Energie Atomique: *See*—Continued
Bourquard, Fernand. 3,062,594.
Caron, Michel, Chaudron, and Moreau. 3,016,237.
Chappellier, Andre. 3,049,389.
Charles, Daniel R., Velte, Dreyfus, and Pamelard. 3,041,-840.
Chatel, Serge, and Nief. 3,040,585.
Clavé, Serge R. 3,052,151.
Cohen De Lara, Georges, Delachanal, and Platzer. 3,049,236.
Condolios, Elie, and Michel. 3,023,051.
Dachkevitch, Vsevolod. 3,035,130.
Delassus, Marcel, Lefrancois, and Vaniscotte. 3,055,732.
Eyraud, Charles, Prettre, Trambouze, Lenoir, Thomas, and Plurien. 3,022,187.
Foglia, Sebastien. 3,068,035.
Gauthron, Maurice, and Beernaert. 3,053,976.
Gautier, André, and Pommellet. 3,026,709.
Glaude, Max M. V., and Boclet. 3,056,886.
Herénguel, Jean. 3,041,716.
Humbert, Jacques, Dubuisson, and Moranville. 3,025,156.
Jacquinot, Pierre, and Chabbal. 3,045,535.
Kepes, André. 3,025,224.
Klein, Siegfried. 3,015,745.
Koch, Lydie, and Labeyrie. 3,035,173.
Lacaze, Albert, and Weil. 3,039,275.
Le Flem, Leon, and Jouin. 3,036,966.
Martin, Roger. 3,069,343.
Martin, Roger, and Moulin. 3,025,226.
Martinelli, Pierre P. 3,056,027.
Nief, Guy, and Gotter. 3,066,220.
Parain, Jacques. 3,056,969.
Podliasky, Ilia. 3,043,986.
Pottier, Jacques. 3,067,359.
Pruvot, Emile, Baradez, Caillat, and Pointud. 3,057,684.
Ricard, Pierre-Jean. 3,041,264.
Roche, Roland. 3,068,162.
Roche, Roland L., and Martin. 3,061,532.
Roubeau, Pierre M., Garin, and Prugne. 3,022,038.
Thome, Paul. 3,049,618.
Verheyden, Jean. 3,031,110.
Verheyden, Jean A. 3,064,672.
Vertes, Paul, Sauteron, and Delange. 3,069,227.
Commissariat a l'Energie Atomique, Etablissement Public: *See*—
Martelly, Julien. 3,042,803.
Commisso, Nicholas D., to National Distillers and Chemical Corp. Frame for mounting plastic film. 3,068,939, 12–18–62, Cl. 160—392.
Common, James L., to General Foods Corp. Powdered instant beverage mix. 3,023,106, 2–27–62, Cl. 99—78.
Commoner, Barry: *See*—
Townsend, Jonathan, and Commoner. 3,060,371.
Commons, Joe M., to J. K. Seitz. Case fastener. 3,023,793, 3–6–62, Cl. 150—1.6.
Commonwealth of Australia: *See*—
Edwards, Alan R. 3,067,031.
Commonwealth of Australia, care of the Secretary of the Department of Supply, The: *See*—
Bonnell, Robert F., Ramsay, and Dixon. 3,068,752.
Metcalfe, Kenneth A., and Wright. 3,032,432.
Metcalfe, Kenneth A., and Wright. 3,038,799.
Commonwealth Co.: *See*—
Cayot, Lynn B. 3,017,878.
Commonwealth Engineering Co.: *See*—
Toulmin, Harry A., Jr. Re. 25,277.
Toulmin, Harry A., Jr. 3,032,451.
Toulmin, Harry A., Jr. 3,069,736.
Commonwealth Engineering Co. of Ohio, The: *See*—
Bulloff, Jack J. 3,017,434.
Bulloff, Jack J. 3,030,393.
Crosby, Melvin A. 3,069,864.
Drummond, Folsom E. 3,070,472.
Hiler, Malvern J. 3,066,996.
Jenkin, William C. 3,070,469.
Novak, Leo J. 3,070,486.
Novak, Leo J. 3,070,487.
Novak, Leo J., and McCallum. 3,043,796.
Toulmin, Harry A., Jr. 3,019,611.
Toulmin, Harry A., Jr. 3,022,607.
Toulmin, Harry A., Jr. 3,025,082.
Toulmin, Harry A., Jr. 3,066,798.
Toulmin, Harry A., Jr. 3,069,735.
Toulmin, Harry A., Jr. 3,069,840.
Toulmin, Harry A., Jr. 3,069,854.
Toulmin, Harry A., Jr. 3,070,007.
Toulmin, Harry A., Jr. 3,070,038.
Toulmin, Harry A., Jr. 3,070,643.
Commonwealth Mental Health Research Foundation: *See*—
Eisenman, George, Rudin, and Casby. 3,041,252.
Commonwealth Scientific and Industrial Research Organization: *See*—
Bell, George A., and Lobb. 3,043,060.
Bruere, Graham M. 3,037,957.
Czulak, Joseph. 3,060,575.
Head, Alan K. 3,043,112.
Kovarik, Mojmir. 3,029,331.
Marston, Hedley R. 3,056,724.
Taylor, Donald S. 3,055,059.
Communication Products Co., Inc.: *See*—
Bryson, William B. 3,031,668.

Communications Patents Ltd.: *See*—
Jefferson, Harold. 3,034,707.
Comorau, Leo, 50% to A. A. Surrey. Drill positioning jig. 3,026,748, 3–27–62, Cl. 77—62.
Compagnia Italiana Forme Acciaio S.p.A.: *See*—
Ausenda, Carlo, and Dessalles. 3,068,721.
Compagnia Italiana Nestpack S.p.A.: *See*—
Martelli, Guido, N. and F. 3,028,566.
Compagnie de Recherches et d'Etudes Aeronautiques: *See*—
Brocard, Jean M. R. 3,054,578.
Compagnie du Filage des Metaux et des Joints Curty: *See*—
Delcroix, Jean, Hubert, and Heintz. 3,019,894.
Frost, Paul D. 3,059,769.
Heintz, Rene, and Jour. 3,044,893.
Sejournet, Jacques, and Le Clerc. 3,039,888.
Compagnie Francaise des Matieres Colorantes: *See*—
Anatol, Jesus. 3,036,087.
Frey, Raymond. 3,045,013.
Gagneux, Rene E. M., and Le Blanc. 3,066,134.
Jirou, Marcel. 3,023,071.
Jirou, Marcel, and Urne. 3,030,352.
Jirou, Marcel, Urné, and Rogovin. 3,021,322.
Kopp, Georges, Gangneux, and Baron. 3,043,647.
Mingasson, Georges R. H., and Alicot. 3,036,138.
Muller, Paul. 3,015,603.
Compagnie Generale d'Electricite: *See*—
Fleury, Marcel. 3,067,803.
Mandel, Paul. 3,031,569.
Massot, Roger, and Eyraud. 3,015,205.
Veyrie, Charles. 3,015,219.
Veyrie, Charles. 3,067,890.
Weill, Henry, and Boutelant. 3,061,778.
Compagnie Generale de Radiologie: *See*—
Griffoul, Roger, and Schram. 3,037,142.
Compagnie Generale de Telegraphie Sans Fil: *See*—
Aegerter, Pierre. 3,034,080.
Benichou, Robert. 3,036,675.
Biggi, Victor, and Simon. 3,022,419.
Brault, Yves, and Cauchois. 3,018,477.
Broussaud, Georges, and Biggi. 3,054,064.
Dohler, Oscar, and Oestein. 3,068,432.
Hugon, Pierre. 3,024,462.
Humbert, Michel, and Floriot. 3,015,633.
Leboutet, Hubert P., and Pinel. 3,031,596.
Le Boutet, Hubert, and Vincent. 3,068,425.
Le Parquier, Guy. 3,021,659.
Le Parquier, Guy, and Detape. 3,038,155.
Oger, Eugène. 3,046,395.
Thourel, Leo. 3,015,819.
Thourel, Leo. 3,018,480.
Thourel, Leo, and Le Parquier. 3,044,057.
Warnecke, Robert R. 3,018,448.
Warnecke, Robert R., and Vincent. 3,031,399.
Compagnie General du Duralumin et du Cuivre: *See*—
Tournaire, Marcel. 3,040,611.
Compagnie Industrielle de Procedes et d'Applications S.A.: *See*—
Godel, Albert. 3,042,500.
Compagnie Industrielle des Telephones: *See*—
Alizon, Etienne, and Monin. 3,041,528.
Burstow, Pierre, and Monin. 3,048,821.
Burstow, Pierre, and Monin. 3,065,306.
Oswald, Jacques. 3,032,724.
Vazquez, Charles. 3,068,381.
Compax Corp.: *See*—
Cohn, Eugene, Catallo, and Cohn. 3,015,145.
Cohn, Eugene, Catallo, and Cohn. 3,015,146.
Comper, Adrian: *See*—
Burzlaff, Karl H., and Comper. 3,041,120.
Weickgenannt, Egon R., and Comper. 3,041,122.
Comper, Adrian, to Ritter Co., Inc. Surgical table. 3,041,-121, 6–26–62, Cl. 311—7.
Compiano, Roy. Bowling glove. 3,031,680, 5–1–62, Cl. 2—159.
Complete Machinery & Equipment Co., Inc.: *See*—
Share, Barnett. 3,034,705.
Compo Shoe Machinery Corp.: *See*—
Meier, Richard D. 3,051,968.
Components for Research, Inc.: *See*—
Franklin, Le Roy H. 3,018,318.
Compression Joints Ltd.: *See*—
Mosely, Arthur C. 3,025,086.
Compteurs et Moteurs Aster: *See*—
Cheronnet, Jean. 3,026,389.
Comptoir de l'Industrie Cotonniere Etablissements Boussac: *See*—
Bonel, Robert. 3,063,229.
Comptoir Pharmaceutique d'Exportation S.A.: *See*—
Scheldegger, Jean-Jacques. 3,032,416.
Compton, Donald R., and J. P. Pratzki, to ACF Industries, Inc. Pump. 3,045,896, 7–24–62, Cl. 230—188.
Compton, Francis E.: *See*—
Miller, William R., Anderson, Compton, and Hold. 3,037,-402.
Compton, Jack B. S., to Silentbloc Ltd. Pivotal joints for universal movement. 3,030,132, 4–17–62, Cl. 287—85.
Compton, Lloyd E.: *See*—
Hunt, William T., Compton, and Bennett. 3,034,654.
Compton, Max D., to Gladding, McBean & Co. Method of producing novel decorative effects on ceramic objects. 3,047,418, 7–31–62, Cl. 117—37.
Compur-Werk G.m.b.H. & Co.: *See*—
Fahlenberg, Paul, Gebele, and Singer. 3,059,558.
Gebele, Kurt, and Singer. 3,065,683.
Gebele, Kurt, and Singer. 3,067,665.
Compur-Werk Friedrich Deckel oHG: *See*—
Fahlenberg, Paul. 3,049,064.
Gebele, Kurt. 3,030,862.
Gebele, Kurt. 3,044,376.
Gebele, Kurt. 3,044,377.
Gebele, Kurt. 3,049,065.
Gebele, Kurt, and Spiessl. 3,044,382.
Computer Control Co., Inc.: *See*—
Beaudette, Charles G. 3,041,599.
Computer Equipment Corp.: *See*—
Alexander, Matthew A. 3,037,166.
Computer Measurements Corp.: *See*—
Lovejoy, Rex E. 3,025,510.
Comstock, Alfred E. Food container and method of making. 3,054,550, 9–18–62, Cl. 229—31.
Comstock, George E., 3rd, to Potter Instrument Co., Inc. Vacuum loop tape handler. 3,016,207, 1–9–62, Cl. 242—55.12.
Comstock, Richard L., to Bell Telephone Laboratories, Inc. Microwave pulse amplifier. 3,022,463, 2–20–62, Cl. 330—5.
Comstock & Wescott Inc.: *See*—
Rand, William M., Rice, Shaver, and Whitney. 3,035,-903.
Seavey, Gordon C. 3,030,516.
Comtex Ltd.: *See*—
Greisman, Samuel. 3,021,652.
Comuntzis, Marcus G., to United States of America, Army. Ruggedized electronic packaging. 3,030,553, 4–17–62, Cl. 317—100.
Conant, John P.: *See*—
Casselman, Elbridge J., and Conant. 3,025,747.
Conant, Lawrence W. Apparatus for presenting graphed information for evaluation and comparison. 3,024,977, 3–13–62, Cl. 235—61.
Conant, Louis A., to Union Carbide Corp. Aluminum-base alloy. 3,037,857, 6–5–62, Cl. 75—138.
Conant, Melvin A. Foot lever for a hand shovel. 3,035,816, 5–22–62, Cl. 254—131.5.
Conarb Corp.: *See*—
Holt, Hillis W. 3,037,112.
Conaway, Bolyn H., to Whirlpool Corp. Absorber assembly. 3,045,452, 7–24–62, Cl. 62—491.
Conaway, James M.: *See*—
Del Faro, Gordon P., Moline, and Conaway. 3,055,420.
Conax Corp.: *See*—
Connell, Maurice W. 3,040,284.
Connell, Maurice W. 3,065,286.
Haefner, Arthur E. 3,059,576.
Conbere, John P.: *See*—
Blackman, Peter, and Conbere. 3,053,788.
Conbere, John P., and K. Pfister III, to Merck & Co., Inc. Phosphate derivatives of steroids. 3,068,223, 12–11–62, Cl. 260—239.55.
Concannon, Nathan K. Protector and ripener for fruit. 3,069,274, 12–18–62, Cl. 99—171.
Concelman, Carl W., to Amphenol-Borg Elecronics Corp. Multi-chamber coaxial line switch apparatus. 3,016,496, 1–9–62, Cl. 333—7.
Concelman, Carl W., to Amphenol-Borg Electronics Corp. Two-position coaxial switch structure. 3,050,603, 8–21–62, Cl. 200—153.
Concepts Co., The: *See*—
Lotz, Martin A. 3,044,577.
Conch International Methane Ltd.: *See*—
Beckwith, Sterling. 3,018,018.
Bergmann, Heinrich W. 3,062,397.
De Lury, James, Young, and Bodle. 3,020,723.
Dosker, Cornelius D. 3,026,577.
Dosker, Cornelius D. 3,030,869.
Dosker, Cornelius D. 3,042,080.
Farrell, James H., Hunsaker, and Robinson. 3,062,402.
Henry, James J. 3,018,916.
Henry, James J. 3,021,808.
Henry, James J. 3,041,841.
Henry, James J. 3,052,203.
Marshall, Walton H., Jr. 3,068,659.
Marshall, Walton H., Jr., and Gains. 3,057,706.
Morrison, Willard L. 3,019,937.
Morrison, Willard L. 3,055,532.
Murphy, John A. 3,016,219.
Conchon, Michel: *See*—
Terraz, Marius. 3,049,864.
Conciatori, Anthony B., to Celanese Corp. of America. Textile materials resistant to fading. 3,021,188, 2–13–62, Cl. 8—61.
Conco Engineering Works Inc.: *See*—
Riemenschneider, Claud C. 3,061,111.
Concrete Building Units Co., Inc.: *See*—
Lacy, Johnson W., and Brown. 3,026,043.
Concrete Conduit Corp.: *See*—
Bergesen, Howard, and O'Rourke. 3,038,231.
Concrete Sewing Equipment, Inc.: *See*—
Hatcher, Cecil W. 3,037,755.
Concrete Technology Corp.: *See*—
Anderson, Arthur R. 3,045,305.
Loper, Lincoln L., Jr. 3,045,707.
Ziegler, George E. 3,045,708.

Conde-Garriga, Mario. Apparatus for the filing and automatic selection of filing cards, folders and the like. 3,052,509, 9–4–62, Cl. 312—319.
Condello, Thomas M. Crab trap. 3,055,139, 9–25–62, Cl. 43—61.
Conder, L. Stevens: *See*— McLaughlin, Asa L., Priesnitz, Haworth, Fleming, Conder, and Frost. 3,052,455.
Conder, Lory S.: *See*— Knill, Raymond R., McLaughlin, Priesnitz, Conder, and Haworth. 3,019,890.
Condit, Ralph H., to United States of America, Air Force. Apparatus for growing pure crystals. 3,039,857, 6–19–62, Cl. 23—260.
Condo, Albert C., Jr., to The Atlantic Refining Co. Motor fuel compositions. 3,020,137, 2–6–62, Cl. 44—78.
Condo, Albert C., Jr., to The Atlantic Refining Co. Motor fuel compositions. 3,047,374, 7–31–62, Cl. 44—69.
Condolios, Elie, and A. Michel, to Commissariat a l'Energie Atomique. Installation for hydraulic conduit transport for container. 3,023,051, 2–27–62, Cl. 302—14.
Condon, Stanley E.: *See*— Jones, Harold A., Schmidt, and Condon. 3,015,489.
Condorelli, Emanuele: *See*— Messina, Giuseppe, De Pisapia, Spano, and Condorelli. 3,056,829.
Condra, Elmo L. Combination scraper and tube reforming device and method of using same. 3,039,530, 6–19–62, Cl. 166—55.
Cone Automatic Machine Co., Inc.: *See*— Brown, Roger W. 3,064,501.
Cone, Carroll: *See*— Beggs, Donald, and Cone. 3,038,790.
Cook, Eugene A., and Cone. 3,033,539.
Huebler, Jack, Cone, Dailey, and Nesbitt. 3,024,015.
Young, Gloyd H., and Cone. 3,070,362.
Cone, Irvin C., and G. H. Jenkins III, to The Gates Rubber Co. Diaphragm for valve. 3,022,039, 2–20–62, Cl. 251—46.
Cone, Joseph H., to Casco Products Corp. Antenna. 3,016,206, 1–9–62, Cl. 242—54.
Cone, Leo. Gear shift lever positioning attachment. 3,054,-302, 9–18–62, Cl. 74—475.
Cone, Ronald D., to North American Aviation, Inc. Overload protection circuit. 3,023,326, 2–27–62, Cl. 307—88.5.
Cone, Russell G.: *See*— Donaldson, Francis, Snedden, and Cone. 3,030,086.
Cones, Ben. Foot rest. 3,016,267, 1–9–62, Cl. 297—439.
Coney, Joseph J.: *See*— Schifferle, Charles J. 3,066,031.
Confeld, James D., T. E. Ellis, and A. A. Jorgensen, to General Dynamics Corp. Telephone station identifying system. 3,025,355, 3–13–62, Cl. 179—17.
Configured Tube Products Co.: *See*— Alger, Jerry T. 3,018,823.
Rein, Edward H., and Alger. 3,058,515.
Conforming Matrix Corp.: *See*— MacArthur, Hamilton E., and Kertz. 3,052,212.
Martin, Clyde G., and McHue. 3,026,843.
Minnick, Gerald D., and Molly. 3,040,701.
Conger, Channing C., to The Controllix Corp. Regulator for generators. 3,048,768, 8–7–62, Cl. 322—28.
Conger, Elmer G.: *See*— Bradburn, William J., Jr., Hansen, and Conger. 3,041,-565.
Conger, Joseph C., Sr., to American Cyanamid Co. Concentrated methylene blue paste. 3,049,395, 8–14–62, Cl. 8—79.
Conger, Robert L.: *See*— Kern, Dale B., and Conger. 3,017,587.
Congoleum-Nairn Inc.: *See*— Beerli, George A. 3,024,157.
Bishop, John, Johnson, and Wetterau. 3,068,118.
Paulus, George F., and Scholl. 3,068,186.
Charlton, Ralph W., and Sergi. 3,040,210.
Piacente, Anthony N. 3,053,802.
Re Casino, Frank P. 3,061,066.
Sergi, Rocco J. 3,015,638.
Weaver, John B., and Petry. 3,015,640.
White, Harold J., and Piacente. 3,015,356.
Zucker, Richard S., and Katz. 3,035,955.
Conijn, Antonius M. J. M.: *See*— Cupido, Piet M., and Conijn. 3,054,188.
Conil, Marius H., to A. Raymond. Fastening device. 3,066,-902, 12–4–62, Cl. 248—223.
Conix, André J., and U. L. Laridon, to Gevaert Photo-Producten N.V. Production of linear aromatic polyesters. 3,028,364, 4–3–62, Cl. 260—47.
Conklin, Carlton B. Anti-skid tire chain. 3,036,618, 5–29–62, Cl. 152—241.
Conklin, Earl L., to Century Brewery Corp. Closures for containers. 3,066,821, 12–4–62, Cl. 215—48.
Conklin, Emmett D., E. E. Flanigan, J. M. Ricketts, W. A. Turunen, to General Motors Corp. Gas turbine. 3,027,717, 4–3–62, Cl. 60—39.65.
Conklin, Robert M.: *See*— McCrory, Rollin J., King, and Conklin. 3,042,010.
Conlee, George D., to McGraw-Edison Co. Laundry apparatus. 3,034,226, 5–15–62, Cl. 34—133.
Conlee, George D., to McGraw-Edison Co. Control system for laundry dryers. 3,059,344, 10–23–62, Cl. 34—45.
Conlee, George D., and L. V. Buck, to McGraw-Edison Co. Method and apparatus for controlling laundry dryers. 3,028,680, 4–10–62, Cl. 34—45.
Conley, Charles L., Jr.: *See*— Hall, Christopher H., Hanvill, and Conley. 3,039,138.
Conley, Charles P., and A. Nelkin, to United States of America, Navy. Wake responsive torpedo guidance system. 3,049,087, 8–14–62, Cl. 114—23.
Conley, Edwin E. Pivoted valve structure. 3,060,961, 10–30–62, Cl. 137—527.4.
Conley, Fred M., to Edgerton, Germeshausen and Grier, Inc. Metal-to-non-metal bond and method. 3,031,737, 5–1–62, Cl. 29—155.5.
Conley, Kurt H., to Entoleter, Inc. Heavy duty centrifugal processing apparatus. 3,021,083, 2–13–62, Cl. 241—275.
Conley, Kurt H., and A. J. Tenner, to Entoleter, Inc. Centrifugal impacting apparatus. 3,023,973, 3–6–62, Cl. 241—275.
Conley, Walter R., Jr., and R. W. Pitman, to United States of America, Atomic Energy Commission. Water treatment. 3,067,133, 12–4–62, Cl. 210—42.
Conley, Weld E., to Chain Belt Co. Apparatus for separation of solids from a liquid. 3,017,998, 1–23–62, Cl. 210—519.
Conlin, Peter, and W. L. Schulz, to Hankscraft Co. Vaporizer. 3,020,385, 2–6–62, Cl. 219—40.
Conlisk, Allen R., L. A. Jonas, A. J. Stamm, H. Tarkow, and R. C. Weatherwax. Gas-aerosol filter material. 3,034,947, 5–15–62, Cl. 162—181.
Conlon, John W., to Farmington Mfg. Co. Method of making a work supporting structure. 3,044,149, 7–17–62, Cl. 29—149.5.
Conlon, John W., to Farmington Mfg. Co. Structure using fluid for supporting a part thereof. 3,044,836, 7–17–62, Cl. 308—9.
Conmar Products Corp.: *See*— Johns, La Moine E. 3,052,939.
Johns, La Moine E. and M. F. 3,030,684.
Mikulas, William. Re. 25,223.
Conn, C. G., Ltd.: *See*— Burgener, Robert C., and Finlay. 3,042,881.
Greenleaf, Leland B. 3,030,846.
Greenleaf, Leland B. 3,044,339.
Kent, Earle L., and LeFevre. 3,022,697.
Krauss, Serge L. 3,048,792.
Krauss, Serge L., and Tennes. 3,039,347.
Tennes, Charles J. 3,040,613.
Conn, George T. Knockdown portable dance floor. 3,040,-388, 6–26–62, Cl. 20—3.
Conn, John B., to Merck & Co., Inc. Thermoelectric materials. 3,055,962, 9–25–62, Cl. 136—5.
Conn, John B., and J. V. Magee, to Merck & Co., Inc. Process for preparing heavy metal tellurides. 3,065,048, 11–20–62, Cl. 23—50.
Conn, Mervel E., to Esso Research and Engineering Co. Treating finely-divided solids. 3,051,314, 8–28–62, Cl. 210—189.
Conn, Robert C., and J. M. Campbell, to American Cyanamid Co. New process for the preparation of a yellow triazine vat dye. 3,040,045, 6–19–62, Cl. 260—249.
Connall, Desmond D. Trouser hanger. 3,061,154, 10–30–62, Cl. 223—87.
Connally, Carl, Jr., and J. J. Justen, to Socony Mobil Oil Co., Inc. Recovery of petroleum oil. 3,047,063, 7–31–62, Cl. 166—10.
Connally, Carl A., Jr., to Socony Mobil Oil Co., Inc. Rolling ball viscometer. 3,026,716, 3–27–62, Cl. 73—57.
Connecticut Hard Rubber Co., The: *See*— Brinsmade, Daniel S. 3,042,980.
Grabicki, Zbigniew J., and Baldrige. 3,027,344.
Moffitt, John A., Jr., and Kidwell. 3,020,185.
Connecticut Valley Enterprises, Inc.: *See*— Kenyon, Theodore W., and Pallme. 3,036,176.
Connell, Hugh D.: *See*— Wilson, Allen B., and Connell. 3,031,671.
Connell, John R., to Esso Research and Engineering Co. Automatic process controller whose output is changed in step fashion. 3,067,766, 12–11–62, Cl. 137—386.
Connell, Maurice W., to Conax Corp. Termination fitting for mineral-insulated metal-sheath cable. 3,040,284, 6–19–62, Cl. 339—61.
Connell, Maurice W., to Conax Corp. Thermocouple unit. 3,065,286, 11–20–62, Cl. 136—4.
Connell, Richard A., and D. P. Seraphim, to International Business Machines Corp. Superconductive gate switching its conducting state in response to mechanical stress imposed by piezoelectric crystal. 3,050,643, 8–21–62, Cl. 307—88.5.
Connell, Thomas F., and G. Rockefeller, to Palatine Dyeing Co., Inc. Improvements in the sueding of fabric. 3,068,-544, 12–18–62, Cl. 26—28.
Connelly, John H., to Corning Glass Works. Glass color filter. 3,022,181, 2–20–62, Cl. 106—52.
Connelly, Mark E.: *See*— Lee, Richard C., Cox, and Connelly. 3,037,699.
Pughe, Earle W., Jr., and Connelly. 3,036,772.
Connelly, William P., to Consolidation Coal Co. Automatic withdrawal of high density material from a heavy media separator. 3,034,649, 5–15–62, Cl. 209—172.5.
Conner, Charles J.: *See*— Reeves, Wilson A., Conner, and Chance. 3,065,111.
Conner, Edmond E.: *See*— Gotal, Joseph, and Conner. 3,040,240.

Conner, Guy F.: *See*—
Strobel, Charles K., Conner, and McMichael. 3,034,354.
Conner, Guy O., to Republic Steel Corp. Rotary tool turret carrying a rotary threading tool spindle with radially movable dies actuated by rotation of the tool turret. 3,027,577, 4–3–62. Cl. 10—145.
Conner, Guy O., to Republic Steel Corp. Work holding turret for forming machines. 3,031,700, 5–1–62. Cl. 10—162.
Conner, Guy O., to Republic Steel Corp. Blank feeding device for metal working machines. 3,035,684, 5–22–62, Cl. 198—162.
Conner, Guy O., to Republic Steel Corp. Releasable tool holder and operating means therefor. 3,036,319, 5–29–62, Cl. 10—134.
Conner, Guy O, to Republic Steel Corp. Work holder for metal working machines. 3,049,222, 8–14–62, Cl. 198—210.
Conner, Kenneth B., K. Hunter, to Lavino Shipping Co., Inc. Controls for load-handling machine. 3,033,399, 5–8–62, Cl. 214—656.
Conner, Leo B., Jr., to General Motors Corp. Radiometer speed measuring system. 3,023,361, 2–27–62, Cl. 324—70.
Conner, Leo B., Jr., to General Motors Corp. Optical galvanometer multiplier using pulse width modulation. 3,026,476, 3–20–62, Cl. 324—97.
Conner, Willard P., Jr., and W. E. Davis, to Hercules Powder Co. Use of nuclear fission in synthesizing organic compounds. 3,065,159, 11–20–62, Cl. 204—154.2.
Conner, Wm. A.: *See*—
Hartup, William O. 3,026,754.
Connock, Sidney H. G.: *See*—
Smialowski, Antoni J., Vogelfanger, Fischer, and Connock. 3,038,259.
Smialowski, Antoni J., Vogelfanger, Fischer, and Connock. 3,057,355.
Connolly, Frank X. Portable urine collecting device with overflow handle. 3,033,222, 5–8–62, Cl. 137—152.
Connolly, Franklin J.: *See*—
Budovec, Joseph E., and Connolly. 3,059,283.
Connolly, John A.: *See*—
Campbell, Harold E., Coffey, and Connolly. 3,065,961.
Connolly, William J.: *See*—
Erickson, Warren O., and Connolly. 3,061,580.
Connor, George R.: *See*—
Wickwire, Theodore H., III, and Connor. 3,043,942.
Connor, Harold W.: *See*—
Carman, Alexander J., and Connor. 3,025,563.
Connor, James E., Jr.: *See*—
Leum, Leonard N., and Connor. 3,030,411.
Leum, Leonard N., Connor, Rothrock, and Shipley. 3,041,270.
Connor, Jean H.: *See*—
Couch, Dwight E., Shapiro, Brenner, and Connor. 3,046,205.
Connor, Lyle B.: *See*—
Haskell, Philip R., Evans, Connor, and Ketchpel. 3,024,530.
Haskell, Philip R., Ketchpel, and Connor. 3,024,464.
Haskell, Philip R., Evans, Ketchpel, and Connor. 3,024,531.
Haskell, Philip R., Evans, Ketchpel, and Connor. 3,024,666.
Haskell, Philip R., Evans, Ketchpel, and Connor. 3,024,749.
Connor, Ralph F., to Whirlpool Corp. Home appliance. 3,022,936, 2–27–62, Cl. 230—207.
Connors, James F., to United States of America, National Aeronautics and Space Administration. Annular rocket motor and nozzle configuration. 3,049,876, 8–21–62, Cl. 60—35.6.
Connors, James F., to United States of America, National Aeronautics and Space Administration. Telescoping-spike supersonic inlet for aircraft engines. 3,067,573, 12–11–62, Cl. 60—35.6.
Connors, John: *See*—
Caldwell, Samuel P., and Connors. 3,051,106.
Connors, Robert J., to Sylvania Electric Products Inc. Voltage comparison apparatus. 3,039,057, 6–12–62, Cl. 324—158.
Connoy, Eugene N.: *See*—
Cleland, Charles E., and Connoy. 3,059,516.
Connoy, Eugene N., to Continental Machines, Inc. Method of cutting thin-walled cellular or honeycombed metal. 3,035,150, 5–15–62, Cl. 219—69.
Connoy, Eugene N., to Continental Machines, Inc. Metal cutting saw bands and blades and method of making the same. 3,063,310, 11–13–62, Cl. 76—112.
Conover, Lloyd H.: *See*—
Rennhard, Hans H., Conover, Gordon, and Stephens. 3,043,876.
Stephens, Charles R., Jr., and Conover. 3,047,626.
Conover, Lloyd H., to Chas. Pfizer & Co., Inc. Anti-pathogenic compounds. 3,027,379, 3–27–62, Cl. 260—294.8.
Conover, Stanley W. Toboggan. 3,034,799, 5–15–62, Cl. 280—18.
Conover, Warren C., to Outboard Marine Corp. Transom mounting for an outboard motor. 3,061,250, 10–30–62, Cl. 248—4.
Conrad, C. Dewey: *See*—
Conrad, Gyle D. 3,045,833.
Conrad, Franklin: *See*—
Haefner, Albert J., and Conrad. 3,019,175.
Conrad, Gyle D., deceased; M. E. Muse, administratrix, 90% to C. D. Conrad, as trustee, and 10% to Gadget-of-The-Month Club, Inc., by decree of distribution and assignment. Wall-mountable storage unit for an electric razor, cord, and shaving mirror during non-use periods. 3,045,833, 7–24–62, Cl. 211—87.
Conrad, Hallie: *See*—
Hulse, Paul H., and Conrad. 3,057,171.
Conrad, Hans J., to Beteiligungs-und Patentverwaltungsgesellschaft mit beschrankter Haftung. Arrangement for converting a reciprocatory movement into a rotary movement. 3,066,476, 12–4–62, Cl. 60—19.
Conrad, James E., and R. W. Kueneman, to J. R. Simplot Co. Food product and process. 3,057,732, 10–9–62, Cl. 99—92.
Conrad, Joseph D., Jr., to Westinghouse Electric Corp. Rotor turning gear control apparatus. 3,021,719, 2–20–62, Cl. 74—472.
Conrad, Martin B., to Baker Oil Tools, Inc. Apparatus for setting packers in well bores. 3,024,845, 3–13–62, Cl. 166—123.
Conrad, Martin B. Casing scraper. 3,031,016, 4–24–62, Cl. 166—173.
Conrad, Martin B., to Baker Oil Tools, Inc. Tubing anchor. 3,045,757, 7–24–62, Cl. 166—216.
Conrad, Martin B., and H. H. Fisher, Jr., to Baker Oil Tools, Inc. Subsurface valve apparatus. 3,036,810, 5–29–62, Cl. 251—95.
Conrad, Martin B., and J. B. McElheny; said Conrad assor. to said McElheny. Locator for collars joining pipe lengths. 3,061,010, 10–30–62, Cl. 166—64.
Conrad, Rene A. Egg evacuating process and a means therefor. 3,055,407, 9–25–62, Cl. 146—2.
Conrad, Richard A., to Clary Corp. Electromagnetic actuator. 3,040,217, 6–19–62, Cl. 317—172.
Conrad, Robert J.: *See*—
Betzhold, George R., and Conrad. 3,067,081.
Conrad, Thomas W., to Cannon Electric Co. Solenoid. 3,018,418, 1–23–62, Cl. 317—123.
Conrad, Ulrich: *See*—
Wirsching, Robert J., and Conrad. 3,015,326.
Conrad, Walter F.: *See*—
Carson, Robert L., and Conrad. 3,017,565.
Conrad, Wendell R.: *See*—
Reid, Robert J., and Conrad. 3,019,209.
Conrad, William A., to H. C. Little Burner Co., Inc. Extensible flue pipe assembly. 3,052,230, 9–4–62, Cl. 126—307.
Conrades, David E.: *See*—
Curtis, Grover C., Jr., and Conrades. 3,032,945.
Conradi, Henrik, N. de Frumerie, and S. B. Andersson; said Conradi assor. to Stal Refrigeration AB, and said de Frumerie and said Andersson assors. to Svenska Flaktfabriken, Aktiebolaget. System for air conditioning holds. 3,041,954, 7–3–62, Cl. 98—33.
Conradin. Fritz, G. Bertossa, and J. Giesen, to Inventa, A.G. fur Forschung und Patentverwertung. Process for the direct hydrogenation splitting of saccharose to glycerol and glycols. 3,030,429, 4–17–62, Cl. 260—635.
Conroy, Edward J., to The International Silver Co. Pyxes. 3,050,182, 8–21–62, Cl. 206—19.
Conroy, John L., to Alsynite Co. of America. Frame structure. 3,021,576, 2–20–62, Cl. 20—11.
Conry, William T.: *See*—
Roberts, Ronald W., and Conry. 3,068,698.
Consolidated Cigar Corp.: *See*—
Green, William D., Jr., and Bartlett. 3,048,270.
Consolidated Coal Co.: *See*—
Batchelor, James D., Friedrich, and Yavorsky. 2,018,226.
Baum, Kurt, and Friedrich. 3,018,227.
Del Bel, Elsio, Heredy, and Neuworth. 3,027,345.
Gorin, Everett. 3,018,241.
Gorin, Everett. 3,018,242.
Hotelling, Ralph B., Neuworth, and Previc. 3,027,412.
Neuworth, Martin B., and Del Bel. 3,026,586.
Sylvander, Nels E. 3,070,515.
Consolidated Diesel Electric Corp.: *See*—
Davis, Jerome I., and Enyeart. 3,024,858.
Consolidated Edison Co. of New York, Inc.: *See*—
Driscoll, John M. 3,068,653.
Xenis, Constantine P. 3,022,765.
Consolidated Electrodynamics Corp.: *See*—
Bell, Norton W. 3,059,223.
Cole, Leland G. 3,036,895.
Cole, Leland G. 3,038,853.
Cunningham, James D. 3,059,216.
Everard, Joseph J., and Heinzen. 3,059,131.
Gibbs, Joseph P., and Stanaway. 3,060,396.
Lancor, Joseph H., and Gray. 3,061,684.
Pinto, Julian B. 3,024,957.
Schulz, Gordon R. 3,040,593.
Winchel, Henry T. 3,059,177.
Consolidated Electronics Industries Corp.: *See*—
Ambrozaitis, John J. 3,070,300.
Barrick, James E., and Lucas. 3,054,027.
Haydon, Arthur W. 3,023,567.
Haydon, Arthur W., Daniels, and King. 3,058,017.
Houk, Richard D. 3,051,014.
Hughes, Ray C., and Sweet. 3,023,389.
Kalish, David. 3,017,690.
Nicholson, Ronald G. 3,018,151.
Taylor, Jay R., and Kavanaugh. 3,038,438.
Consolidated Foundries and Mfg. Corp.: *See*—
Busse, Floyd E. 3,052,929.

Consolidated Freightways Corp. of Delaware: *See*—
Sahapatas, James N. 3,048,126.
Consolidated Gold Fields of South Africa Ltd., The: *See*—
Read, Frank O., Carman, Cross, and Moir. 3,062,738.
Consolidated Machine Tool Division of Farrel-Birmingham Co., Inc.: *See*—
Hewes, Ellsworth D., and Brownell. 3,057,122.
Miller, William R., Anderson, Compton, and Hold. 3,037,402.
Consolidated Metal Products Co.: *See*—
Froedge, Andrew L. 3,058,777.
Consolidated Mining and Smelting Co. of Canada, Ltd., The: *See*—
MacEwan, John R. 3,024,183.
Turner, Gordon H., Wellington, Sutherland, and White. 3,063,099.
Consolidated Packaging Machinery Corp.: *See*—
Dimond, George H. 3,031,822.
Dimond, George H. 3,054,240.
Young, William J. 3,061,069.
Young, William J. 3,070,209.
Consolidated Thermoplastics Co.: *See*—
Black, Clarence D. 3,055,374.
Shabram, Lyle F. 3,069,106.
Shabram, Lyle F. 3,070,212.
Consolidated Vacuum Corp.: *See*—
Black, Judd H., and Lyon. 3,064,464.
Hamilton, Allen R. 3,031,610.
Consolidated Water Power & Paper Co.: *See*—
Molsberry, Mahlon V., Wefel, and Walker. 3,044,440.
Consolidation Coal Co.: *See*—
Brinkley, Stuart R., Jr., and Von Elbe. 3,046,887.
Connelly, William P. 3,034,649.
Gordon, William E. 3,046,888.
Gorin, Everett, and Friedrich. 3,051,628.
Gorin, Everett, and Friedrich. 3,051,629.
Gorin, Everett, and Struck. 3,047,472.
Gwynne, Jay H. 3,051,310.
Kulik, Metro D. 3,040,060.
Lee, Arthur L. 3,035,655.
Lee, Arthur L. 3,067,830.
Lee, Arthur L., and Coval. 3,038,564.
Lee, Arthur L., and Coval. 3,047,115.
Lee, Arthur L., and Coval. 3,064,488.
Lee, Arthur L., and Coval. 3,067,698.
Neuworth, Martin B., Laufer, and Previc. 3,032,595.
Poundstone, William N. 3,034,808.
Poundstone, William N. 3,039,596.
Poundstone, William N. 3,068,995.
Poundstone, William N., and Raynovich. 3,069,147.
Poundstone, William N., Ream, and Jones. 3,039,827.
Price, Stanley J., Jr., and Raynovich. 3,046,745.
Consolloy, James W., to The Electric Storage Battery Co. Connecting means having a cam operated split contractile sleeve. 3,051,514, 8–28–62, Cl. 285—215.
Constable, James M.: *See*—
Achtellik, Gerald J., and Constable. 3,065,349.
Constant, Paul C., Jr. Remote meter reading apparatus. 3,046,534, 7–24–62, Cl. 340—188.
Constanti, James A., to Simmons Co. Safety side. 3,032,781, 5–8–62, Cl. 5—331.
Constantini, Anthony R., and A. Di Angelus, to Victory Metal Mfg. Co., d.b.a. Victory Metal Mfg. Corp. Moisture vaporizer system. 3,059,446, 10–23–62, Cl. 62—150.
Constantino, Thomas B. Visor attached tissue pack with incorporated trash receptacle. 3,026,999, 3–27–62, Cl. 206—19.5.
Constantopes, Emmanuel. Sponge fishing device. 3,057,104, 10–9–62, Cl. 43—6.5.
Consterdine, Edward W., to Associated Electrical Industries (Manchester) Ltd. Electrical brush gear. 3,045,136, 7–17–62, Cl. 310—238.
Construcciones Mecanicas Textile, S.A.: *See*—
Cortabarria, Fernando A. 3,019,591.
Constructeurs Associes Pour Le Montage D'Ouvrages Metalliques C.A.M.O.M., Societe Anonyme: *See*—
Bucker, Jacques, and Duvergie. 3,033,411.
Construction Machinery Co.: *See*—
Lynch, Cecil G. 3,053,367.
McDermott, Harold R. 3,038,705.
Smith, Earl G. 3,023,056.
Constructions Guinard, Societe les: *See*—
Mathieu, Francois J. H. H. 3,044,167.
Comerford, William H., Jr., and Tice. 3,048,758.
Constructions Mecaniques S.A. Renens: *See*—
Grossmann, Paul. 3,038,332.
Consumers Merchandising Corp.: *See*—
Janus, Alexander G. 3,031,124.
Janus, Alexander G. 3,038,595.
Janus, Alexander G. 3,043,207.
Contact Sheeting, Inc.: *See*—
Booth, Weldon S., and Coakley. 3,068,656.
Contactisol Inc.: *See*—
Bechtold, Arthur W. 3,032,182.
Contadina Foods: *See*—
Morici, Alfred A. 3,015,429.
Container Corp. of America: *See*—
Chamberlin, Frederick B., Jr. 3,069,060.
Chidsey, Francis A., Jr. 3,016,182.
Chidsey, Francis A., Jr. 3,040,877.
Chidsey, Francis A., Jr., and Currie. 3,037,334.
Chidsey, Francis A., Jr., and Currie. 3,064,404.
Container Corp. of America: *See*—Continued
Chidsey, Francis A., Jr., and Hasselo. 3,049,282.
Cote, Raymond A. Re. 25,111.
Currie, Grover C., Jr., and Conrades. 3,032,945.
Davis, Ralph M., Shuxteau, and Long. 3,036,753.
De Paul, Richard E. 3,029,939.
De Paul, Richard E. 3,030,009.
De Paul, Richard E. 3,040,962.
De Paul, Richard E. 3,042,283.
Desmond, John D. 3,016,181.
Gronemeyer, Erich. 3,029,003.
Gronemeyer, Erich. 3,029,987.
Gronemeyer, Erich. 3,036,698.
Long, Fleming D. 3,058,446.
Magazzu, John T. 3,015,428.
Massey, John V., and R. H. and W. P. Kaulfuss. 3,025,954.
Moore, Marion F. 3,043,494.
Nemoede, Paul A. 3,043,472.
Shuxteau, Eugene A., and Masl. 3,024,513.
Wolowicz, Richard S. 3,047,204.
Container Corp. of America, Sefton Fibre Can Co. Division: *See*—
Hanlon, Donald V. 3,051,370.
Container Patent Co. G.m.b.H.: *See*—
Doerpinghaus, Ernst H. 3,067,712.
Container Service Co., Inc.: *See*—
Aldredge, Howard D. 3,064,835.
Containers, Inc.: *See*—
Cook, Max J. 3,026,005.
Contant, Peter R., to General Motors Corp. Windshield wiper mechanism. 3,025,552, 3–20–62, Cl. 15—250.16.
Conte, Ernest R. Swimming pool alarm. 3,036 296, 5–22–62, Cl. 340—261.
Conte, Franklin B.: *See*—
Stuben, Frank J. and J. H. 3,049,607.
Conte, Joseph F.: *See*—
De Boer, Willis, and Conte. 3,055,114.
Conte, Louis B.: *See*—
Apel, Francis N., Conte, and Bender. 3,049,568.
Content, Dirk, 20% to A. C. Nolte, Jr. Cigarette container. 3,028,950, 4–10–62, Cl. 206—41.
Conti, Girard N., to Holley Carburetor Co. Method of classifying and matching bellows units. 3,036,456, 5–29–62, Cl. 73—4.
Conti, Girard N., and E. S. Stankowski, to Holley Carburetor Co. Device for assembling bellows ends to convolutions. 3,067,709, 12–11–62, Cl. 113—52.
Conti, James J., Jr.: *See*—
Othmer, Donald F., and Conti. 3,024,170.
Contina Bureaux-und Rechenmaschinenfabrik Aktiengesellschaft: *See*—
Ferrari, Alfredo, and Gasser. 3,046,834.
Ferrari, Alfredo, and Gasser. 3,048,082.
Ferrari, Alfredo, and Gasser. 3,062,090.
Maier, Elmar. 3,055,584.
Continental Air Lines, Inc.: *See*—
Nance, Tommy E. 3,049,374.
Continental Aluminum Products Co.: *See*—
Brunzie, Robert H., and Fnink. 3,022,548.
Continental Aviation and Engineering Corp.: *See*—
Bachle, Carl F. 3,018,628.
Hiersch, Frederick A. 3,034,770.
Marchand, William C. 3,026,154.
Marchand, William C. 3,034,369.
Pickard, James W., and MacDonald. 3,070,103.
Rudy, Charles E. 3,053,460.
Continental Baking Co.: *See*—
Hildebrand, Hendrick P., Sr. 3,055,723.
Continental Boiler and Sheet Iron Works: *See*—
Beers, Rollo O. 3,044,418.
Continental Can Co., Inc.: *See*—
Alexander, Paul. 3,020,177.
Bartels, Herbert D. 3,056,244.
Baugh, Edwin D., and Szatkowski. 3,056,535.
Brick, Robert M. 3,016,587.
Brick, Robert M. 3,058,181.
Brick, Robert M., and Brigham. 3,032,890.
Brick, Robert M., and Valyi. 3,061,924.
Chadima, Jack P., and Saxe. 3,021,655.
Chebuhar, Charles J., and Pearson. 3,058,512.
Collie, Stafford D. 3,017,065.
Crumbo, William A. 3,028,147.
Curtis, Lyda D. 3,029,742.
Erlandson, Paul M. 3,068,345.
Flynn, George M. 3,053,212.
Flynn, George M. 3,053,213.
Gamble, Burton L. 3,067,856.
Ganz, Henry. 3,045,401.
Ganz, Henry. 3,061,985.
Ganz, Robert H. 3,031,813.
Geist, William J. 3,063,612.
Glaser, Ernest, and Schenck. 3,056,382.
Henchert, John. 3,021,805.
Hillegas, Julian M. 3,045,743.
Honor, Walter J. 3,051,355.
Hughes, Donald G. 3,052,210.
Inman, Geoffrey S. 3,039,294.
Johnson, Scott R. 3,040,798.
Johnson, Scott R. 3,057,457.
Keinanen, Henry, and Szatkowski. 3,068,344.
La Freniere, Lawrence J., and Durkee. 3,056,527.

Continental Can Co., Inc.: *See*—Continued
Maier, Curtis E., and Brick. 3,029,155.
Mansfield, Sanford. 3,066,795.
McDevitt, James A., and Miller. 3,042,103.
Miller, Teddy, Anderson, and Rosbe. 3,015,302.
Miller, Teddy, Anderson, and Rosbe. 3,019,938.
Negoro, Kaiji. 3,019,481.
Negoro, Kaiji. 3,065,875.
Piazze, Thomas E. 3,023,679.
Piazze, Thomas E. 3,029,853.
Piazze, Thomas E. 3,032,773.
Piazze, Thomas E. 3,059,547.
Piazze, Thomas E. 3,059,752.
Piazze, Thomas E. 3,065,839.
Piazze, Thomas E. 3,065,840.
Posten, Carl F., and Ruck. 3,040,867.
Roof, Robert A. 3,039,299.
Ruekberg, Herbert S., and Simon. 3,025,561.
Schabes, Donald W. 3,063,617.
Scott, Harry A. 3,054,548.
Shapero, Wallace H. 3,022,540.
Simkins, Daniel. 3,026,078.
Simpson, Justin. 3,039,368.
Sonnier, Bruce C. 3,029,098.
Stone, Orison W. 3,036,755.
Szajna, John L. 3,020,595.
Tamm, Richard F. 3,068,336.
Tornquist, Nils M. 3,037,673.
Trainor, Bernard E. 3,052,789.
Vahle, Raymond. 3,049,060.
Vincent, John N. 3,022,912.
Vincent, John N., and Kuntz. 3,022,913.
Wagner, Edward W., and Stetter. 3,030,904.
Wagner, Edward W., and Stetter. 3,037,379.
Walter, Charles T. 3,050,297.
Zoltanski, Edward F. 3,069,553.
Continental Carbon Co.: *See*—
Latham, Burton F., Jr., and Ruble. 3,033,651.
Continental Copper & Steel Industries, Inc.: *See*—
Hirt, Robert E. 3,069,107.
Sandler, Robert A. 3,025,041.
Continental-Diamond Fibre Co.: *See*—
Taylor, John S. 3,047,421.
Continental Electrolog Corp.: *See*—
Kolisch, Emil. 3,063,638.
Continental Elektroindustrie A.G., Askania-Werke: *See*—
Biermann, Markus. 3,038,082.
Hildebrand, Klaus, and Pocher. 3,019,690.
Pocher, Hugo. 3,022,702.
Continental Folding Paper Box Co., Inc.: *See*—
Bowman, Paul F. 3,046,849.
Continental Gin Co.: *See*—
Brooks, Eugene H. 3,024,499.
Brooks, Eugene H. 3,024,721.
Deems, Frank E. 3,025,785.
Continental Gummi-Werke Aktiengesellschaft: *See*—
Beckadolph, Richard. 3,016,320.
Beckadolph, Richard, and Niclas. 3,016,321.
Beckadolph, Richard, and Niclas. 3,068,710.
Niclas, Walter, and Mnell. 3,016,084.
Werner, Hans, and Schmidt-Hertzberg. 3,044,524.
Continental Gummi-Werke Aktiengesellschaft, Firma: *See*—
Beckadolph, Richard. 3,034,557.
Continental Industries, Inc.: *See*—
Burke, Donald J. 3,022,554.
Continental Machines, Inc.: *See*—
Cleland, Charles E., and Connoy. 3,059,516.
Connoy, Eugene N. 3,035,150.
Connoy, Eugene N. 3,063,310.
Crane, Robert L., Cleland, and Whitmore. 3,034,779.
Sebastian, Thomas C. 3,034,387.
Whitmore, Charles H. 3,064,821.
Continental Mfg. Co.: *See*—
Reed, Charles L., Jr. 3,066,909.
Continental Motors Corp.: *See*—
Bakke, Laurence D. 3,025,363.
Haas, Herbert H. 3,053,542.
Hiersch, Frederick A. 3,058,528.
Continental Oil Co.: *See*—
Acciarri, Jerry A., and Napier. 3,062,857.
Atwood, Mark T. 3,017,438.
Atwood, Mark T., and McClaflin. 3,069,450.
Barnes, Lester H. 3,048,958.
Bauer, Robert A., and Stetton. 3,043,255.
Bourne, Henry A., Jr. 3,064,733.
Boyer, Ernest W. 3,057,996.
Boyer, Ernest W., Ford, and McKelvey. 3,050,622.
Brindell, Gordon D., and Lundeen. 3,025,245.
Carlyle, Robert L. 3,021,280.
Clynch, Frank, and Hanggi. 3,059,483.
Coyne, Donald M. 3,070,631.
Coyne, Donald M., Lobo, and Williams. 3,053,905.
Crawford, John M. 3,019,412.
Davis, Charles T., and Higgins. 3,061,456.
Dew, John N., and Martin. 3,054,448.
De Witte, Leendert. 3,037,115.
Doty, William E. N. 3,065,453.
Dry, Neal E., and Scott. 3,042,620.
Flanagan, Pat W. K. 3,070,616.
Gant, Preston L. 3,045,116.
Gant, Preston L., and Sudbury. 3,050,629.
Goodenow, Wayne B., Smith, and Young. 3,032,271.
Continental Oil Co.: *See*—Continued
Groves, William L., Jr., and Stanberry. 3,065,172.
Groves, William L., Jr., and Terry. 3,068,279.
Higgins, Francis J. 3,065,164.
Horwitz, Louis B., and Messer. 3,038,656.
Hunt, Mack W., and Tillman. 3,057,763.
Kennedy, Flynt, and Lundeen. 3,024,287.
McGlasson, Robert L. 3,024,651.
McGlasson, Robert L., Radd, and Shock. 3,030,296.
Moxley, Steve D., Jr. 3,017,107.
Phansalkar, Achyut K., Roebuck, and Scott. 3,046,222.
Quinn, Tom W. 3,064,737.
Rhodes, Aaron D., and Stratton. 3,017,934.
Riggs, Olen L., Jr. 3,017,354.
Riggs, Olen L., Jr. 3,061,553.
Roebuck, Albert H., and Scott. 3,042,612.
Sias, Roy C. 3,065,262.
Sias, Roy C., and Tillman. 3,061,419.
Sonnier, Raife. 3,069,762.
Stanberry, C. J., Jr., and Groves. 3,052,628.
Stratton, Hal. 3,015,361.
Swiger, William F. 3,044,561.
Swiger, William F. 3,051,113.
Terry, Billy W., Sias, and Woods. 3,067,151.
Tillman, Richard M. 3,018,172.
Continental Optical Co., Inc.: *See*—
Catron, William M., and Kenyon. 3,066,458.
Lauber, John A. 3,040,623.
Continental Paper Co.: *See*—
Vines, Oscar L. 3,049,281.
Continental Steel Corp.: *See*—
Loop, James P. 3,062,471.
Schreiner, Paul E., and Pell. 3,039,626.
Continental Vending Machine Corp.: *See*—
Danziger, William, Rush, and Gold. 3,045,870.
Conto, Armando F., to Frost-King Corp. Freezer. 3,065,-611, 11–27–62, Cl. 62—298.
Contra Costa Waste Service, Inc.: *See*—
Bertoglio, Peter J., and Borges. 3,034,674.
Contraves A.G.: *See*—
Haldemann, Heinz. 3,021,463.
Contraves A.G., Firma: *See*—
Lattmann, Max E. 3,020,756.
Contreras, Gilbert E., and R. W. Graves, to Aeroquip Corp. Joint structure. 3,016,249, 1–9–62, Cl. 285—336.
Controle Bailey, Societe dite: *See*—
Lejon, Jean C. 3,044,001.
Controlex Corp. of America: *See*—
Breunich, Theodore R. 3,019,663.
Controllix Corp., The: *See*—
Conger, Channing C. 3,048,768.
Soos, Steven W. 3,069,518.
Controls Co. of America: *See*—
Biermann, William A., and Rowland. 3,064,103.
Breese, James L. 3,029,803.
Breese, James L., and Huston. 3,017,925.
Comerford, William H., Jr. 3,048,757.
Comerford, William H., Jr., and Tice. 3,048,758.
Duescher, John H. 3,050,703.
Hotchkiss, Clifford. 3,059,693.
Huston, Milton D. 3,033,279.
Johnson, Roy W., and Biermann. 3,020,923.
Kaleba, Joseph J., and Beck. 3,066,202.
Matthies, Alan A. 3,023,604.
Matthies, Alan A. 3,063,249.
McCarty, Lourdes V., and Michael. 3,059,136.
McCarty, Lourdes V., and Schwartz. 3,057,990.
McKinley, Edwin W. 3,024,811.
Strathearn, Donald M. 3,042,763.
Strathearn, Donald M., and Thornbery. 3,028,458.
Thornbery, James M., and Willcox. 3,033,999.
Controls for Radiation, Inc.: *See*—
Wall, James A. 3,041,457.
Controulis, John, to Parke, Davis & Co. Heterocyclic arsenoso compound and method of producing the same. 3,062,822, 11–6–62, Cl. 260—271.
Conval Corp.: *See*—
Smith, Paul E., Jr. 3,020,118.
Converse, John O., to General Mills, Inc. Apparatus for milling. 3,017,126, 1–16–62, Cl. 241—77.
Converse, John O., to General Mills, Inc. Milling apparatus. 3,027,100, 3–27–62, Cl. 241—78.
Converse Rubber Corp.: *See*—
Fleischer, Julius R. 3,056,150.
Convery, Robert J., to Sun Oil Co. Preparation of organic mercuric compounds. 3,031,484, 4–24–62, Cl. 260—431.
Convery, Robert J., to Sun Oil Co. Esterification of naphthalene dicarboxylic acids. 3,042,709, 7–3–62, Cl. 260—475.
Convery, Robert J., to Sun Oil Co. Oxidation of cyclododecatriene-1,5,9. 3,061,452, 10–30–62, Cl. 106—287.
Convery, Robert J., to Sun Oil Co. Preparation of diesters of decane-1,10-dicarboxylic acid. 3,070,626, 12–25–62, Cl. 260—485.
Conveyor Co., The: *See*—
Saxe, Walter E. 3,044,629.
Convis, Orville P. Self-retracting downspout discharge extension. 3,035,779, 5–22–62, Cl. 239—208.
Conviser, Harry. Externally actuated internal adjustment means for hermetically sealed instruments. 3,060,753, 10–30–62, Cl. 74—18.1.
Conway, Anna M. Sternoclavicular joint measuring instrument. 3,047,957, 8–7–62, Cl. 33—174.

Conway Clutch Co., The: *See*—
Becknell, Raleigh, 3,021,932.
Becknell, Raleigh, 3,048,248.
Becknell, Raleigh, 3,065,832.
Conway, Hugh G., and R. S. Ransom, to Short Brothers & Harland Ltd. Under-carriage shock absorbers for aircraft. 3,056,598, 10–2–62, Cl. 267—64.
Conway, John J.: *See*—
Usher, Ralph E., Conway, and Goodness. 3,045,095.
Conway, M. J., Inc.: *See*—
Conway, Martin J. 3,037,753.
Conway, Martin J., to M. J. Conway, Inc. Gas scrubber. 3,037,753, 6–5–62, Cl. 261—64.
Conway, Robert D., and A. B. Hanse, to Pettibone Mulliken Corp. Elliptical roller device with closely spaced ribs. 3,028,957, 4–10–62, Cl. 209—106.
Cook, Alan H., and R. G. Hitchins. Exploring photographic densities. 3,053,987, 9–11–62, Cl. 250—219.
Cook, Alan R., to Butler Mfg. Co. Unloader for storage containers. 3,064,831, 11–20–62, Cl. 214—17.
Cook, Albert N.: *See*—
Turner, Edgar P., and Cook. 3,029,763.
Cook, Arnold M.: *See*—
Collin, Paul N., and Cook. 3,026,581.
Lundgren, Herbert K., Cook, and Collin. 3,025,575.
Cook, Calvin S., to Louis Marx & Co., Inc. Toy machine gun. 3,015,186, 1–2–62, Cl. 46—175.
Cook, Calvin S., M. E. Hirsch, R. J. Lohr, and C. D. Rees, to Louis Marx & Co., Inc. Toy cap gun with tape drum for hammer actuation. 3,040,461, 6–26–62, Cl. 42—57.
Cook, Charles A., to Clark Equipment Co. Locking clutch. 3,063,529, 11–13–62, Cl. 192—53.
Cook, Charles A., and W. H. Freitag, to Clark Equipment Co. Friction clutch with positive lock. 3,048,247, 8–7–62, Cl. 192—53.
Cook, Charles B., Jr., and A. R. Schwarz, to Royal McBee Corp. Transfer sheet having completely transferable coating. 3,034,918, 5–15–62, Cl. 117—36.4.
Cook, Charles C., to International Minerals & Chemical Corp. Electrostatic concentration of minerals. 3,025,960, 3–20–62, Cl. 209—3.
Cook, Charles W., and M. B. Sampson, to The S–P Mfg. Corp. Hydraulic cylinder cushion. 3,025,836, 3–20–62, Cl. 121—38.
Cook Chemical Co.: *See*—
Scoggin, Baxter L., Jr., and Vaughan. 3,064,865.
Cook, Cleo E.: *See*—
Cline, Carl E., and Cook. 3,035,504.
Cook, Dale D. Sheathing panel manufacture from boards. 3,060,980, 10–30–62, Cl. 144—3.
Cook, Daniel R. Method of and means for controlling the heat of certain elements of rotary printing presses. 3,064,-563, 11–20–62, Cl. 101—216.
Cook, Donald F., to Western Electric Co., Inc. Feed table. 3,063,553, 11–13–62, Cl. 193—35.
Cook, Edward G., J. F. Tibolla, and C. Foundos, to Curtiss-Wright Corp. Ultrasonic testing arrangement. 3,019,637, 2–6–62, Cl. 73—67.7.
Cook, Edward G., and W. I. Shepley, to Curtiss-Wright Corp. Ultrasonic materials testing system. 3,021,706, 2–20–62, Cl. 73—67.8.
Cook, Edward J., to General Electric Co. High perveance beam forming system. 3,046,442, 7–24–62, Cl. 315—31.
Cook Electric Co.: *See*—
Bellamy, John C. 3,017,111.
Rockwood, Charles H. 3,039,093.
Cook, Emory C. Method of manufacturing phonograph records. 3,023,459, 3–6–62, Cl. 18—48.3.
Cook Engineering and Electronics, Inc.: *See*—
Cook, Eugene C. 3,015,600.
Cook, Ernest E.: *See*—
Sadler, Harry J., and Cook. 3,062,601.
Sadler, Harry J., and Cook. 3,065,705.
Cook, Ernest E., and H. J. Sadler. Pump structure. 3,018,737, 1–30–62, Cl. 103—173.
Cook, Ernest F., to Ford Motor Co. Seat adjuster drive unit. 3,022,681, 2–27–62, Cl. 74—665.
Cook, Eugene A., and C. Cone, to Midland-Ross Corp. Heat transfer apparatus for continuously moving strip. 3,033,-539, 5–8–62, Cl. 257—306.
Cook, Eugene C., to Cook Engineering and Electronics, Inc. Plastic film cutter and sealer. 3,015,600, 1–2–62, Cl. 156—356.
Cook, Evan B.: *See*—
Cook, Robert G. and E. B. 3,045,254.
Cook, Evin L., to Socony Mobil Oil Co., Inc. Fluid-actuated percussion drill. 3,018,834, 1–30–62, Cl. 175—92.
Cook Foundation, Inc., The: *See*—
Cook, John B. 3,025,656.
Cook, Frank E.: *See*—
Preiser, Herman S., and Cook. 3,049,479.
Cook, Fred E., and L. S. Vegors. Shock absorber for road graders. 3,022,060, 2–20–62, Cl. 267—1.
Cook, Fred S. Portable ironing board. 3,044,197, 7–17–62, Cl. 38—115.
Cook, George W., to Thiokol Chemical Corp. Angular accelerometer sensing systems and control methods and apparatus. 3,051,884, 8–28–62, Cl. 318—457.
Cook, George W., to Reed Research Inc. Passive detection and wave analyzer system. 3,054,053, 9–11–62, Cl. 324—77.
Cook, Gerhard A.: *See*—
Fay, Homer, Mohr, and Cook. 3,032,654.
Cook, Gordon H., to Taylor, Taylor & Hobson Ltd. Optical objectives of variable focal length. 3,045,546, 7–24–62, Cl. 88—57.
Cook, Harold D.: *See*—
Wistrom, Wayne M., and Cook. 3,038,735.
Cook, Harold G., and J. P. Nicholson, to United States of America, Navy. Gas generator. 3,052,526, 9–4–62, Cl. 23—281.
Cook, Harry C.: *See*—
Nelson, Jerome W., and Cook. 3,053,975.
Cook, Harry M., and J. F. Ryan, Jr., to E. I. du Pont de Nemours and Co. Crimping apparatus and method. 3,036,-357, 5–29–62, Cl. 28—1.
Cook, Harvey A., to Thompson Ramo Wooldridge Inc. Supercharger for internal combustion engines. 3,020,901, 2–13–62, Cl. 123—119.
Cook, Henry L., Jr.: *See*—
Ohmart, Philip E., and Cook. 3,060,313.
Ohmart, Philip E., and Cook. 3,070,692.
Cook, Herbert E., to Michigan Abrasive Co. Abrasive tool. 3,046,709, 7–31–62, Cl. 51—195.
Cook, Howard E. Boat mooring device. 3,055,336, 9–25–62, Cl. 114—230.
Cook, Howard E. Mooring device. 3,062,169, 11–6–62, Cl. 114—230.
Cook, Howard F., to Challenge-Cook Bros. Inc. Transit mixer. 3,038,704, 6–12–62, Cl. 259—160.
Cook, Jackson, 40% to K. L. Stout. Magnetic pencil clip and method of manufacturing. 3,028,631, 4–10–62, Cl. 18—59.
Cook, James M., and C. G. Hovanec, to Dura Corp. Power actuated door operator. 3,069,151, 12–18–62, Cl. 268—3.
Cook, John B., to The Cook Foundation, Inc. Method and apparatus for making communication cable. 3,025,656, 3–20–62, Cl. 57—34.
Cook, John S., to Bell Telephone Laboratories, Inc. Traveling wave tube. 3,060,341, 10–23–62, Cl. 315—3.6.
Cook, John S., and W. H. Louisell, to Bell Telephone Laboratories, Inc. Low noise superconductive ferromagnetic parametric amplifier. 3,056,092, 9–25–62, Cl. 330—56.
Cook, Joseph J.: *See*—
Howe, John R., and Cook. 3,050,321.
Cook, Kenneth D. Door stop. 3,024,056, 3–6–62, Cl. 292—177.
Cook, Leonard, to Smith Kline & French Laboratories. 3-amino-4-phenylpyrazole muscle relaxant preparations and method of producing skeletal muscle relaxation. 3,017,-326, 1–16–62, Cl. 167—65.
Cook, Leonard W., to General Electric Co. Mercury button switch. 3,032,633, 5–1–62, Cl. 200—152.
Cook, Leslie J.: *See*—
Lindberg, John E., Jr., and Cook. 3,056,918.
Cook, Lucien H., and J. Colonias, to Chemical Construction Corp. Process for production of urea. 3,053,891, 9–11–62, Cl. 260—555.
Cook, Lucien H., and A. J. Stewart, to Chemical Construction Corp. Process for the production of ammonia and purification thereof by urea synthesis. 3,069,234, 12–18–62, Cl. 23—199.
Cook, Max J., to Containers, Inc. Flexible dispensing container. 3,026,005, 3–20–62, Cl. 222—105.
Cook, Melvin A., H. E. Farnam, Jr., S. D. Malstrom, and W. H. Peterson, to Intermountain Research and Engineering Co., Inc. Booster for relatively insensitive explosives. 3,037,452, 6–5–62, Cl. 102—24.
Cook, Melvin A., and D. H. Pack, to Intermountain Research and Engineering Co., Inc. Booster. 3,037,453, 6–5–62, Cl. 102—24.
Cook, Nathan H.: *See*—
Shaw, Milton C., Smith, and Cook. 3,055,102.
Cook, Newell C.: *See*—
Cobine, James D., and Cook. 3,021,409.
Cook, Newell C., to General Electric Co. Corrosion resistant coating. 3,024,175, 3–6–62, Cl. 204—39.
Cook, Newell C., to General Electric Co. Corrosion resistant coating. 3,024,176, 3–6–62, Cl. 204—39.
Cook, Newell C., to General Electric Co. Corrosion resistant coating. 3,024,177, 3–6–62, Cl. 204—39.
Cook, Ocie, Jr., and J. H. Coulliette. Liquid registering device. 3,016,192, 1–9–62, Cl. 235—94.
Cook Paint & Varnish Co.: *See*—
Bremner, John F., Wright, and Westfall. 3,070,256.
Lombardi, Louis J., Wright, and Westfall. 3,030,321.
Lombardi, Louis J., Wright, and Westfall. 3,030,332.
Cook, Percy A., A. J. James, and B. Taylor, to Cardinal Enterprises Ltd. Runner heater for injection molding machines. 3,055,055, 9–25–62, Cl. 18—30.
Cook, Ralph W. Citrus fruit peel shredder. 3,053,170, 9–11–62, Cl. 100—98.
Cook, Raymond D., and W. A. Lang, to Steel City Electric Co. Ground clip for electrical outlet and switch boxes. 3,021,581, 2–20–62, Cl. 24—73.
Cook, Raymond D., and W. A. Lang, to Steel City Electric Co. Outlet boxes. 3,023,920, 3–6–62, Cl. 220—3.6.
Cook, Raymond D., and W. A. Lang, to Steel City Electric Co. Outlet box supports. 3,025,338, 3–13–62, Cl. 174—63.
Cook, Raymond D., and W. A. Lang, to Steel City Electric Co. Hanger bar and raceway fitting. 3,066,904, 12–4–62, Cl. 248—342.

Cook, Reginald M.: *See*—
Gittus, John H., and Cook, 3,065,072.
Cook, Richard E., to The Distillers Co. Ltd. Inhibited polymerizable compositions. 3,042,726, 7–3–62, Cl. 260—652.5.
Cook, Richard L., to Worthington Corp. Removable lock for blade wheel assembly. 3,042,368, 7–3–62, Cl. 253—77.
Cook, Richard N.: *See*—
Payne, Colin, Cook, and Loudon. 3,026,600.
Cook, Richard S., to Rohm & Haas Co. Quaternary ammonium compounds having a 2-(5-oxy-γ-pyronyl) methyl group. 3,029,256, 4–10–62, Cl. 260—345.8.
Cook, Robert E. Mobile electric vacuum cleaner. 3,015,122, 1–2–62, Cl. 15—327.
Cook, Robert E. Apparatus for washing golf balls. 3,030,646, 4–24–62, Cl. 15—21.
Cook, Robert G. and E. B. Bathtub with liner. 3,045,254, 7–24–62, Cl. 4—173.
Cook, Robert W., to Charles W. Fuelling, Inc. Gas main terminal fixture. 3,023,762, 3–6–62, Cl. 137—74.
Cook, Roy W. Convertible rack for trucks. 3,029,101, 4–10–62, Cl. 296—12.
Cook, S. A., & Co.: *See*—
Howell, Roland C., Jr. 3,030,148.
Howell, Roland C., Jr. 3,030,149.
Cook, Shirl E., and H. Shapiro, to Ethyl Corp. Stable lead alkyl compositions and a method for preparing the same. 3,021,350, 2–13–62, Cl. 260—437.
Cook, Shirl E., and H. Shapiro, to Ethyl Corp. Thermally stabilized alkyllead compounds. 3,038,917, 6–12–62, Cl. 260—437.
Cook, Shirl E., and H. Shapiro, to Ethyl Corp. Thermal stabilization of alkyllead compounds. 3,038,916, 6–12–62, Cl. 260—437.
Cook, Shirl E., and H. Shapiro, to Ethyl Corp. Thermal stabilization of concentrated alkyllead compounds. 3,038,-918, 6–12–62, Cl. 260—437.
Cook, Shirl E., and H. Shapiro, to Ethyl Corp. Thermal stabilization of alkyllead compounds. 3,038,919, 6–12–62, Cl. 260—437.
Cook, Shirl E., and T. O. Sistrunk, to Ethyl Corp. Manufacture of tetramethyllead. 3,049,558, 8–14–62, Cl. 260—437.
Cook, Wilbert H., to McElroy Electronics Corp. Constant voltage and phase network. 3,041,527, 6–26–62, Cl. 323—45.
Cook, Winfield H.: *See*— Frisby, Thomas M., and Cook. 3,068,946.
Cooke, Charles C., to Owens-Illinois Glass Co. Cooling apparatus for glass forming molds. 3,027,685, 4–3–62, Cl. 49—68.
Cooke, Conrad H., and T. C. Hill, to Martin-Marietta Corp. Inertial control system. 3,042,343, 7–3–62, Cl. 244—76.
Cooke, David A.: *See*—
Kowalyshyn, Stephen, Daly, and Cooke. 3,045,626.
Cooke, David A., to United States of America, Navy. Protective system for a torpedo. 3,033,148, 5–8–62, Cl. 114—25.
Cooke, David A., and S. G. Fisher, to United States of America, Navy. Azimuth steering and control system. 3,064,-609, 11–20–62, Cl. 114—23.
Cooke, Edward F., Jr., to Alco Products, Inc. Well head seal with means to limit compression of the seal. 3,038,745, 6–12–62, Cl. 285—148.
Cooke, Engineering Co.: *See*—
Kienlen, Berthol J., and Hayward. 3,036,169.
Cooke, Helen. Expanding toy. 3,020,673, 2–13–62, Cl. 46—90.
Cooke, James R., to Pyrexon Ray Co. Ltd. Heated car seat. 3,017,493, 1–16–62, Cl. 219—46.
Cooke, Maurice D., to Hercules Powder Co. Production of cumene hydroperoxide. 3,049,477, 8–14–62, Cl. 202—40.
Cooke, Russell S.: *See*—
Kasten, Frederick M., Cooke, and Kasten. 3,044,178.
Cooke, Theodore F., and P. B. Roth, to American Cyanamid Co. Composition and process for treating cellulose containing textile material. 3,035,942, 5–22–62, Cl. 117—139.4.
Cooke-Yarborough, Edmund H., to The United Kingdom Atomic Energy Authority. Pulse integrating circuit with serially connected feed and reservoir capacitors. 3,021,485, 2–13–62, Cl. 328—127.
Cooke-Yarborough, Edmund H., to United Kingdom Atomic Energy Authority. Pulse-rate sensitive integrating circuits simultaneously charged by pulses at unknown rate and discharged at constant rate. 3,056,047, 9–25–62, Cl. 307—88.5.
Cooks, Frank. Window construction. 3,047,913, 8–7–62, Cl. 20—52.
Cookson, Harold: *See*—
Mosse, Richard W. E., Cookson, Virgo, and Miles. 3,058,-277.
Cool, Delbert A. Cast shoe. 3,044,463, 7–17–62, Cl. 128—80.
Cool Fin Electronics Corp.: *See*—
Allison, Donald K. 3,023,264.
Allison, Donald K. 3,057,950.
Cooley, Albert M., to The State University and the School of Mines, also known as University of North Dakota. Vegetable drying process. 3,016,303, 1–9–62, Cl. 99—207.
Cooley, David N., to United States Steel Corp. Scrap-end feeder. 3,052,143, 9–4–62, Cl. 83—112.
Cooley, David N., to United States Steel Corp. Scrap chute with a side trimming machine having hinged cover operable upon pile-up of work. 3,069,949, 12–25–62, Cl. 83—106.
Cooley, Floyd A., to General Motors Corp. Power-actuated tail gate. 3,022,108, 2–20–62, Cl. 296—57.
Cooley, Gordon A., to Mechanical Research Corp. Work member for a percussive tool. 3,043,288, 7–10–62, Cl. 125—36.
Cooley, John A. High voltage arc-extinguishing switch. 3,021,411, 2–13–62, Cl. 200—150.
Cooley, John A. Miniaturized potentiometer. 3,059,199, 10–16–62, Cl. 338—163.
Cooley, John A. Acoustico-illuminative tile. 3,068,956, 12–18–62, Cl. 181—33.
Cooley, Kenneth D., H. F. Snider, and E. C. Raney, to Ranco Inc. Clothes dryer control apparatus. 3,037,296, 6–5–62, Cl. 34—45.
Cooley, Robert D., to The Superior Electric Co. Voltage regulator. 3,044,008, 7–10–62, Cl. 323—43.5.
Cooley, William E., R. J. Grabenstetter, and R. W. Broge, to The Procter & Gamble Co. Dentifrice containing resinous cleaning agents. 3,070,510, 12–25–62, Cl. 167—93.
Coolidge, James C., and W. A. Hartz, to The General Tire & Rubber Co. Wheel. 3,064,702, 11–20–62, Cl. 152—212.
Coolidge, John E., and F. C. Himebrook, to Borg-Warner Corp. Polyphase static inverter. 3,052,833, 9–4–62, Cl. 321—5.
Coombs, Chadwick A.: *See*—
Cutler, Edwin L., Jr., Nicklas, and Coombs. 3,068,163.
Coon, Audrey M. Sunbathing glasses. 3,020,552, 2–13–62, Cl. 2—15.
Coon Development Co.: *See*—
Coon, Gertrude V. and H. A. 3,018,801.
Coon, Gertrude V. and H. A., to Coon Development Co. Loom for circular weaving. 3,018,801, 1–30–62, Cl. 139—29.
Coon, Grant W. Diaphragm type capacitance transducer. 3,027,769, 4–3–62, Cl. 73—398.
Coon, Harold W. Sail construction. 3,053,219, 9–11–62, Cl. 114—103.
Coon, Lester. Brassiere display devices. 3,029,989, 4–17–62, Cl. 223—68.
Coon, Howard A.: *See*—
Coon, Gertrude V. and H. A. 3,018,801.
Coon, Lawrence H.: *See*—
Kraeling, John B., and Coon. 3,037,804.
Cooney, Casper C., Jr., to Vocaline Co. of America. Automatic clock-calendar. 3,063,232, 11–13–62, Cl. 58—6.
Coonradt, Harry L.: *See*—
Ciapetta, Frank G., Coonradt, and Garwood. 3,015,549.
Ciapetta, Frank G., Coonradt, and Garwood. 3,023,159.
Ciapetta, Frank G., Coonradt, and Garwood. 3,046,219.
Coonradt, Harry L., and W. K. Leaman, to Socony Mobil Oil Co., Inc. Hydrocracking process with reduction in aging of catalyst by intermittent treatment with hydrogen. 3,048,536, 8–7–62, Cl. 208—110.
Coonradt, Robert A. Boat awning. 3,032,046, 5–1–62, Cl. 135—6.
Coons, Burton C. and W. B. Pear peeling, coring and trimming machine and method and product thereof. 3,018,179, 1–23–62, Cl. 99—100.
Coons, Robert R., and P. F. Richardson, to International Harvester Co. Adjustable seat suspension. 3,049,330, 8–14–62, Cl. 248—419.
Coons, Willard B.: *See*—
Coons, Burton C. and W. B. 3,018,179.
Coop, Gordon N., to Marconi's Wireless Telegraph Co., Ltd. Pulsed radar systems. 3,067,418, 12–4–62, Cl. 343—11.
Cooper, Alfred, to Expanded Rubber Co. Ltd. Preparation of flame-resistant styrene polymer in the presence of a chlorinated ethylenically unsaturated compound and a brominated ester of phosphoric acid. 3,039,991, 6–19–62, Cl. 260—45.5.
Cooper, Alfred S., to Moloney Electric Co. Manufacture of magnetic cores. 3,049,793, 8–21–62, Cl. 29—155.57.
Cooper, Alfred S., to Moloney Electric Co. Methods for making magnetic cores. 3,066,388, 12–4–62, Cl. 29—155.57.
Cooper Alloy Corp.: *See*—
Hookway, William C. 3,015,337.
Mott, Norman S. 3,044,871.
Cooper, Arthur E., and M. W. Olson, to International Business Machines Corp. Method for comparing configurations. 3,054,998, 9–18–62, Cl. 343—5.
Cooper, Arthur F., to North American Aviation, Inc. Failure protected signal translating system. 3,070,071, 12–25–62, Cl. 121—41.
Cooper-Bessemer Corp., The: *See*—
Crooks, William R., and Fullemann. 3,054,269.
Crooks, William R., and Fullemann. 3,054,660.
Fullemann, John. 3,044,684.
Cooper, Bruce E.: *See*—
Loveland, Malcolm W., and Cooper. 3,058,502.
Cooper Carton Corp.: *See*—
Holy, Mitchel E. 3,062,367.
Cooper, Cleveland N., to Pandjiris Weldment Co. Turning roll assembly. 3,042,239, 7–3–62, Cl. 214—340.
Cooper, David H. D., to Dunlop Rubber Co. Ltd. Tyre breaker made of separate parallelogram-shaped sections. 3,024,829, 3–13–62, Cl. 152—361.
Cooper, Dexter P., Jr., to Polaroid Corp. Electric lamps. 3,022,436, 2–20–62, Cl. 313—218.
Cooper, Dexter P., Jr., to Polaroid Corp. Electric lamps. 3,022,437, 2–20–62, Cl. 313—218.
Cooper, Dexter P., Jr., to Polaroid Corp. Electric lamps. 3,022,438, 2–20–62, Cl. 313—222.
Cooper, Dexter P., Jr., and H. M. Bryant, to Polaroid Corp. Electric lamps. 3,022,439, 2–20–62, Cl. 313—222.

Cooper, Elmer J. : *See*—
Chen, Shao L., and Cooper. 3,041,249.
Cooper, Emmit R., to Jones & Laughlin Steel Corp. Belt conveyor apparatus. 3,016,127, 1–9–62, Cl. 198—184.
Cooper, George R. : *See*—
Buland, Robert N., Cooper, and Margolis. 3,024,994.
Cooper, Geoffrey F. : *See*—
Mark, Alexander H., Cooper, and Coleman. 3,049,129.
Cooper, Glenn D., and A. R. Gilbert, to General Electric Co. Polymeric compositions. 3,037,005, 5–29–62, Cl. 260—80.
Cooper, Herbert, Co., Inc. : *See*—
Cooper, Howard G. 3,037,798.
Cooper, Howard G., to Herbert Cooper Co., Inc. Hose and manufacturing method. 3,037,798, 6–5–62, Cl. 285—239.
Cooper, Irving : *See*—
Lewis, Louis S., and Cooper. 3,032,433.
Cooper, Irving B., Jr. : *See*—
Alspach, Wallace J., and Cooper. 3,049,917.
Cooper, Irving S., and A. S. J. Lee to Home For Incurables. Pallidectomy needle holders. 3,053,256, 9–11–62, Cl. 128—303.
Cooper, John H., ½ to F. E. Hutchison. Pumping rod and packing assembly. 3,030,117, 4–17–62, Cl. 277—4.
Cooper, John K. Dispensing hopper wheelbarrow. 3,029,984, 4–17–62, Cl. 222—176.
Cooper, John N. : *See*—
Schmidlin, Fred W., Cooper, and Crittenden. 3,048,825.
Cooper, Joseph. Leg attaching means for tables and furniture. 3,061,392, 10–30–62, Cl. 311—110.
Cooper, Joseph H. : *See*—
Mallett, John E., and Cooper. 3,021,416.
Cooper, Joseph H., to The Taylor-Winfield Corp. Strip feed for strip joining apparatus. 3,064,869, 11–20–62, Cl. 226—110.
Cooper, Justin F., to Jefferson Chemical Co., Inc. Method for removing color-forming bodies from N-alkylmorpholines. 3,068,230, 12–11–62, Cl. 260—247.
Cooper, Leo J. Wire pulling guide. 3,037,744, 6–5–62, Cl. 254—134.3.
Cooper, Manuel, and C. M. Gold, to Yardney International Corp. Filling mechanism for deferred-action batteries. 3,018,314, 1–23–62, Cl. 136—90.
Cooper, McDougall & Robertson Ltd. : *See*—
Kingsbury, Phillip A., and Foster. 3,060,088.
Willmore, Edward S. R., and Phipers. 3,055,800.
Cooper, Murray S. : *See*—
McConnell, Jack B., Zangenberg, and Cooper. 3,034,507.
Cooper, Raymond A. : *See*—
Fiebelkorn, Kenneth L. 3,036,803.
Cooper, Raymond J., to Birfield Engineering Ltd. Motor vehicle transmission systems. 3,028,924, 4–10–62, Cl. 180—73.
Cooper, Richard N., Jr., to Phillips Petroleum Co. Production of block copolymers. 3,030,346, 4–17–62, Cl. 260—83.7.
Cooper, Robert S. : *See*—
Toy, Arthur D. F., and Cooper. 3,029,282.
Cooper, Robert S., to Stauffer Chemical Co. Vinyl diphenylphosphine oxide and method of producing same. 3,035,096, 5–15–62, Cl. 260—606.5.
Cooper Tire & Rubber Co. : *See*—
Weinandy, Paul R. 3,015,857.
Workman, Charles R. 3,049,801.
Cooper, Thomas H., and S. H. Goward, to Palmer Aero Products Ltd. Manufacture of circumferentially corrugated pipes. 3,067,799, 12–11–62, Cl. 153—73.
Cooper, Walter P., and T. Edman, to E. I. du Pont de Nemours and Co. Knitted fabric. 3,069,885, 12–25–62, Cl. 66—195.
Cooper, Wayne E. : *See*—
Doyle, Robert, Holt, and Cooper. 3,019,488.
Cooper, William, & Nephews, Inc. : *See*—
Brown, Norman C., Sloan, and Kingsbury. 3,043,744.
Cooper, William M., to Champion Mfg. Co. Cutting machine. 3,023,746, 3–6–62, Cl. 125—13.
Cooper's Inc. : *See*—
Wyss, John H., Freiericksen, and Testard. 3,019,446.
Coopers Mechanical Joints Ltd. : *See*—
Witchell, Stanley P. 3,068,831.
Cooperstein, Raymond, to Eastman Kodak Co. Method of forming a photosensitive layer of lead sulfide crystals on a glass plate. 3,030,236, 4–17–62, Cl. 117—213.
Coopper, Roderick A., to International Business Machines Corp. Parallel adder. 3,031,140, 4–24–62, Cl. 235—175.
Coopper, Roderick A., and J. J. Moyer, to International Business Machines Corp. Binary digital multiplier. 3,069,-085, 12–18–62, Cl. 235—164.
Cooprider, Rex C. to The Drackett Co. Liquid dispenser. 3,062,416, 11–6–62, Cl. 222—321.
Cooprider, Rex C., to The Drackett Co. Method and apparatus for making plastic articles. 3,064,310, 11–20–62, Cl. 18—42.
Coors, Adolph, Co. : *See*—
Hansen, John A. 3,058,570.
Coors Porcelain Co. : *See*—
Gaggini, Torello. 3,029,507.
Porterfield, Jack N. 3,016,153.
Porterfield, Jack N. 3,038,250.
Porterfield, Jack N. 3,038,362.
Coote, Harry E. : *See*—
Von Fraunhofer, Hans, and Coote. 3,032,413.
Coover, Harry W., Jr. : *See*—
Caldwell, John R., and Coover. 3,026,293.
McConnell, Richard L., and Coover. 3,030,340.
McConnell, Richard L., and Coover. 3,041,350.
McConnell, Richard L., and Coover. 3,057,773.
McConnell, Richard L., and Coover. 3,062,788.
McConnell, Richard L., and Coover. 3,062,792.
Shearer, Newton H., Jr., and Coover. 3,018,278.
Shearer, Newton H., Jr., and Coover. 3,026,310.
Coover, Harry W., Jr., to Eastman Kodak Co. Process of polymerizing vinyl chloride or vinylidene chloride in the presence of an acrylamide polymer. 3,026,289, 3–20–62, Cl. 260—45.5.
Coover, Harry W., Jr., to Eastman Kodak Co. Three-component aluminum-titanium tetrahalide catalysts for olefin polymerization. 3,026,309, 3–20–62, Cl. 260—93.7.
Coover, Harry W., Jr., to Eastman Kodak Co. Olefin polymerization catalysts containing aluminum dihalides, metal alcoholates and alkali metal fluorides. 3,038,892, 6–12–62, Cl. 260—93.7.
Coover, Harry W., Jr., to Eastman Kodak Co. Process of producing highly crystalline polyolefins with titanium borohydride catalyst. 3,057,835, 10–9–62, Cl. 260—93.7.
Coover, Harry W., Jr., to Eastman Kodak Co. Composition consisting of cellulose acetate and poly-N,N′-dimethylacrylamide. 3,070,558, 12–25–62, Cl. 260—17.
Coover, Harry W., Jr., and F. B. Joyner, to Eastman Kodak Co. Olefin polymerization using catalysts containing organic sulfur compounds. 3,026,311, 3–20–62, Cl. 260—93.7.
Coover, Harry W., Jr., and M. A. McCall, to Eastman Kodak Co. Polymerization of vinyl phosphonates using organo metallic catalysts. 3,043,817, 7–10–62, Cl. 260—89.5.
Coover, Harry W., Jr., and R. L. McConnell, to Eastman Kodak Co. Polyphosphites and blends thereof with polyesters. 3,053,795, 9–11–62, Cl. 260—45.4.
Coover, Harry W., Jr., and R. L. McConnell, to Eastman Kodak Co. Phosphorothiolothionates derived from vinylene carbonate and vinylene sulfite. 3,053,852, 9–11–62, Cl. 260—327.
Coover, Harry W., Jr., and W. C. Wooten, Jr., to Eastman Kodak Co. Mixtures of methacrylonitrile copolymers with alkyl acrylate and methacrylate polymers. 3,058,949, 10–16–62, Cl. 260—45.5.
Coover, Harry W., Jr., and N. H. Shearer, Jr., to Eastman Kodak Co. Three-component metal hydride-transition metal halide As Rs for polymerizing olefins. 3,058,969, 10–16–62, Cl. 260—93.7.
Coover, Harry W., Jr., and D. J. Shields, to Eastman Kodak Co. Stabilization of polymerizable halogen-containing monomers with p-methoxy phenol. 3,062,900, 11–6–62, Cl. 260—652.5.
Coover, Harry W., Jr., and W. D. Kennedy, to Eastman Kodak Co. Type of propellant grain. 3,067,686, 12–11–62, Cl. 102—98.
Copcutt, Vincent W., to Research Cottrell, Inc. Gas cleaning system. 3,063,219, 11–13–62, Cl. 55—212.
Cope, F. Troy : *See*—
Kerr, Elmer L., Cope, and Pettit. 3,053,969.
Cope, Geoffrey W., to Symington Wayne Corp. Stabilized truck. 3,026,819, 3–27–62, Cl. 105—197.
Cope, Geoffrey W., to Symington Wayne Corp. Transition buffer. 3,045,838, 7–24–62, Cl. 213—112.
Cope, Geoffrey W., to Symington Wayne Corp. Dust guard. 3,058,751, 10–16–62, Cl. 277—10.
Cope, Geoffrey W., to Symington Wayne Corp. Connecting pin. 3,061,114, 10–30–62, Cl. 213—72.
Cope, Geoffrey W., to Symington Wayne Corp. Journal box lid. 3,062,595, 11–6–62, Cl. 308—47.
Cope, Geoffrey W., and D. G. Syrner, to Symington Wayne Corp. Draft rigging. 3,017,038, 1–16–62, Cl. 213—64.
Cope, Geoffrey W., and E. Martin, to Symington Wayne Corp. Coupler butt and follower construction. 3,021,017, 2–13–62, Cl. 213—72.
Cope, John E., to Pye Ltd. Frame time base circuits. 3,054,020, 9–11–62, Cl. 315—27.
Cope, Paul E. : *See*—
Bonham, Carl P., Cope, and Powell. 3,067,867.
Cope, Richard P., Jr. : *See*—
Bishoff, Robert W., and Cope. 3,018,232.
Cope, Richard P., Jr., and J. R. Drobne, to Westinghouse Electric Corp. Chromium electroplating. 3,041,257, 6–26–62, Cl. 204—51.
Copeland, Clarence L. Fiber washing method and apparatus. 3,025,213, 3–13–62, Cl. 162—4.
Copeland, John R. : *See*—
Robertson, William J., and Copeland. 3,041,452.
Copeland, Richard S., to Sackner Products, Inc. Embossed plastic sheets and method of making same. 3,046,173, 7–24–62, Cl. 154—47.
Copenhaver, John W. : *See*—
Hanford, William E., Copenhaver, and Davis. 3,052,667.
Copenhaver, John W., to General Aniline & Film Corp. Preparation of adducts of maleic anhydride and dienes derived from the addition of formals, acetals and acylals to olefins. 3,022,321, 2–20–62, Cl. 260—346.6.
Copes, John C. Split mechanical seals. 3,025,070, 3–13–62, Cl. 277—39.
Copes, Joseph P., and G. M. Gantz, to General Aniline & Film Corp. Textile assistant. 3,056,744, 10–2–62, Cl. 252—8.8.
Copland, George V., and R. G. Love, to Halliburton Co. Density meter. 3,039,310, 6–19–62, Cl. 73—434.

Coplen, Herman L., Jr., to Aerojet-General Corp. Valve structure. 3,062,237, 11–6–62, Cl. 137—625.28.
Copleston, Francis W., and L. M. A. Gourd, to The British Oxygen Co. Ltd. Electric arc welding. 3,035,158, 5–15–62, Cl. 219—127.
Coplin, Bernard L., and A. E. Warnberg. Amusement and exercising toy. 3,024,021, 3–6–62, Cl. 272—57.
Copolymer Rubber & Chemical Corp.: *See*—
Brewer, John F. 3,032,524.
Denson, William P., Jr. 3,052,645.
Sutherland, John D. 3,055,856.
Voth, Donald E. 3,049,898.
Copony, Edward L.: *See*—
Wiesiander, Frederick W., Copony, Davidson, Alexander, and Smith. 3,030,015.
Copp, Carroll G., Jr. Window mounting assembly and method of installing same. 3,041,678, 7–3–62, Cl. 20—11.
Copp, Frederick C., to Burroughs Wellcome & Co. (U.S.A.) Inc. Quaternary ammonium compounds and the preparation thereof. 3,054,801, 9–18–62, Cl. 260—332.3.
Copp, Frederick C., and D. Stephenson, to Burroughs Wellcome & Co. (U.S.A.) Inc. Process for treatment of hypertenseion. 3,047,916, 6–5–62, Cl. 167—55.
Copp, Frederick C., and D. Stephenson, to Burroughs Wellcome & Co. (U.S.A.) Inc. Quaternary ammonium compounds. 3,038,004, 6–5–62, Cl. 260—501.
Copperweld Steel Co.: *See*—
Davis, Dexter C., Jr., Freeman, and Kura. 3,048,892.
Leatherman, Alfred F. 3,035,143.
Coppick, Sydney: *See*—
Eberl, James J., and Coppick. 3,063,953.
Copping, Brian G., to Swiveller Co., Inc. Berth light. 3,042,-798, 7–3–62, Cl. 240—78.
Copping, Bruce G., to Atkron, Inc. Article caser apparatus. 3,052,071, 9–4–62, Cl. 53—62.
Coppinger, Galvin M., to Shell Oil Co. Light stabilized polypropylene. 3,030,333, 4–17–62, Cl. 260—45.7.
Coppock, Franklin E.: *See*—
Larsh, Everett P., Black, and Coppock. 3,034,479.
Larsh, Everett P., and Coppock. 3,025,188.
Coppock, Philip D., to The Distillers Co. Ltd. Gas/liquid contacting means. 3,063,689, 11–13–62, Cl. 261—124.
Coppock, Walter J., to Sun Oil Co. Fire resistant hydraulic fluid. 3,030,309, 4–17–62, Cl. 252—79.
Coppola, Patrick P., to General Electric Co. Dispenser cathode. 3,016,472, 1–9–62, Cl. 313—346.
Coppola, Patrick P., to General Electric Co. Apparatus for spraying cathodes. 3,048,146, 8–7–62, Cl. 118—301.
Coproducts Corp.: *See*—
Hiller, Stanley. 3,069,442.
Copson, David A., to Raytheon Co. Method and apparatus for control of freeze drying. 3,020,645, 2–13–62, Cl. 34—5.
Copson, David A., and E. Z. Krajewski, to Raytheon Co. Freeze-drying apparatus. 3,048,928, 8–14–62, Cl. 34—1.
Copymation, Inc.: *See*—
Harvey, Arthur. 3,050,218.
Coran, Aubert Y., to Monsanto Chemical Co. Stabilized polymer compositions. 3,060,149, 10–23–62, Cl. 260—45.8.
Corax Corp.: *See*—
Manson, Morris. 3,022,129.
Corazzelli, Vito A. Can opener. 3,016,607, 1–16–62, Cl. 30—6.3.
Corbaz, André. Apparatus for producing a programme for controlling a knitting machine. 3,059,843, 10–23–62, Cl. 234—58.
Corben, Leo D., and W. H. Hatch, to The American Agricultural Chemical Co. Gelatin dessert and method of preparing the same. 3,018,181, 1–23–62, Cl. 99—130.
Corbett, Albert D., Jr., E. K. Weinberg, and D. S. Goalwin, to Thiokol Chemical Corp. Power generator actuated by wave motion. 3,064,137, 11–13–62, Cl. 290—53.
Corbett, Gerald M., to the Dow Chemical Co. Phosphate rock slurries containing a viscosity reducing agent. 3,035,-867, 5–22–62, Cl. 302—14.
Corbett, Herbert O., to National Distillers and Chemical Corp. Method for conditioning thin sheets of a thermoplastic material to improve windability. 3,060,515, 10–30–62, Cl. 18—48.
Corbett, Luke W., to Esso Research and Engineering Co. Asphalt composition and process for preparing same. 3,061,538, 10–30–62, Cl. 208—44.
Corbett, Marshall J., to Thompson Ramo Wooldridge Inc. Controlled feed rocket engine. 3,032,979, 5–8–62, Cl. 60—35.6.
Corbett, Marshall J., to Thompson Ramo Wooldridge Inc. Steering control for rocket. 3,058,304, 10–16–62, Cl. 60—35.55.
Corbett, Marshall J., to Thompson Ramo Wooldridge Inc. Rocket engine control. 3,058,449, 10–16–62, Cl. 121—41.
Corbett, Marshall J., to Thompson Ramo Wooldridge Inc. Control for rocket engines. 3,058,489, 10–16–62, Cl. 137—627.5.
Corbett, Marshall J., to Thompson Ramo Wooldridge Inc. Thrust control for rocket engines. 3,067,574, 12–11–62, Cl. 60—35.
Corbett, Marshall J., to Thompson Ramo Wooldridge Inc. Disposable rocket motor. 3,067,575, 12–11–62, Cl. 60—35.6.
Corbiau, Paul-Emile, to Societe Générale Metallurgique de Hoboken. Separation of nickel from cobalt-containing solutions. 3,041,138, 6–26–62, Cl. 23—87.
Corbin, Alfred, to ACF Industries, Inc. Computer. 3,032,-270, 5–1–62, Cl. 235—183.
Corbin, Charles R., Jr., and A. E. Hammett, ½ to G. A. Tew. Outboard motor supporting bracket. 3,025,028, 3–13–62, Cl. 248—4.
Corbin, Thomas F., Jr., to American Enka Corp. Polymerization of cyclic amides. 3,057,830, 10–9–62, Cl. 260—78.
Corbitt, Howard E.: *See*—
Leibweber, Clarence L., and Corbitt. 3,057,149.
Corby, Joseph, Jr.: *See*—
Needs, Sydney J., and Corby. 3,070,411.
Corckan, John C. Method of making rounded head nail. 3,019,460, 2–6–62, Cl. 10—54.
Corcoran, Lyle S. Hollywood super-turret reloading press. 3,054,322, 9–18–62, Cl. 86—23.
Corcoran, William H., A. M. Goldberg, and D. A. Hamilton, to Don Baxter, Inc. Transfusion equipment. 3,064,652, 11–20–62, Cl. 128—272.
Corder, Ishmael W.: *See*—
Thompson, Lee L., and Corder. 3,028,181.
Corder, John D. Multiplying device. 3,017,110, 1–16–62, Cl. 235—194.
Corder, K. Wilson: *See*—
Byrd, Roy G., J. B. and E. J. 3,047,168.
Corderman, Charles L.: *See*—
Koda, Nobuo J., Smith, Corderman, and Rodgers. Re. 25,221.
Cordes, Hans: *See*—
Nottes, Guenther, and Cordes. 3,053,756.
Cordes, Hans, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of organometallic compounds of nickel. 3,060,214, 10–23–62, Cl. 260—439.
Cordes, Harry W.: *See*—
Silverman, Bernard P., Cordes, and Maurer. 3,054,556.
Cordiano, Ettore, and G. Candellero, by Fiat Societa per Azioni. Hydraulic brake. 3,051,273, 8–28–62, Cl. 180—90.
Cording, James, Jr.: *See*—
Hyde, Wister U., and Cording. 3,024,823.
Hyde, Wister U., and Cording. 3,057,387.
Cording, James, Jr., and R. K. Eskew, to United States of America, Multiflex. Process for manufacture of rapidly rehydratable dehydrated fruits and vegetables. 3,038,813, 6–12–62, Cl. 99—207.
Cordis Corp.: *See*—
Murphy, William P. Jr. 3,048,192.
Murphy, William P., Jr. 3,033,038.
Cordis, Nat.: *See*—
Rusling, Robert B. 3,059,760.
Cordis, Nat. Conveyor system for animal husbandry. 3,055,-485, 9–25–62, Cl. 198—137.
Cordis, Nat. Continuous paddle type feeder. 3,057,329, 10–9–62, Cl. 119—51.5.
Cordis, Nat. Valve and control therefor. 3,062,186, 11–6–62, Cl. 119—81.
Cordis, Nat. Automatic newspaper vendor. 3,062,407, 11–6–62, Cl. 221—225.
Cordle, Arlen, to St. Regis Paper Co. Control switch for bag sewing machine. 3,039,409, 6–19–62, Cl. 112—11.
Cordo Chemical Corp.: *See*—
Sherrard, George H., and Khachadoorian. 3,061,491.
Core Laboratories, Inc.: *See*—
Dameron, Wyllie F. 3,025,398.
Corella, Arthur P.: *See*—
Schneider, William S., and Corella. 3,026,658.
Corey, Frederick C.: *See*—
Pitts, Robert D., and Corey. 3,068,509.
Corey, Nicholas, and C. H. Andrews, to The Beattie Mfg. Co. Method of making pile fabric and pile fabric made thereby. 3,070,134, 12–25–62, Cl. 139—396.
Corey, Robert W., to U.S. Electrical Motors, Inc. Control system for power transmission. 3,016,754, 1–16–62, Cl. 74—230.17.
Corey, Ronald D. System of rollers heated by internal combustion. 3,039,455, 6–19–62, Cl. 126—271.2.
Corey, William G., deceased; E. R. P. Montgomery, administrator of W. G. Corey. Automatic fluid-pressure regulator. 3,054,421, 9–18–62, Cl. 137—489.5.
Cork, Gordon H., and W. J. Hafner; said Hafner assor. to said Cork. Pneumatic conveyor system with radioactive signal elements. 3,069,111, 12–18–62, Cl. 243—16.
Cork Products Research and Development Corp.: *See*—
Flotron, Paul E. 3,055,057.
Corl, John M.: *See*—
Kendt, Norman L., and Corl. 3,032,291.
Corlett, Ewan C. B. Cargo hoists. 3,017,956, 1–23–62, Cl. 187—6.
Corlett, Ewan C. B., to Wm. Cory & Son Ltd. Marine tankers. 3,043,256, 7–10–62, Cl. 114—74.
Corlett, Ewan C. B., to Hydroconic Ltd. Ships' hoists. 3,068,602, 12–18–62, Cl. 43—8.
Corlett-Turner Co.: *See*—
Corlett, Webster D., Jr. 3,022,083.
Corlett, Webster D., and C. G. Mackie, to Standard Screw Co. Bolt tool for use with tamperproof screw or the like. 3,034,386, 5–15–62, Cl. 81—112.
Corlett, Webster D., and C. G. Mackie, to Standard Screw Co. Tamperproof bolt having hidden tool engaging surfaces. 3,060,785, 10–30–62, Cl. 85—9.
Corlett, Webster D., Jr., to Corlett-Turner Co. Adjustable tension master feed finger. 3,022,083, 2–20–62, Cl. 279—55.
Corlett, Webster D., Jr. Shower head. 3,057,561, 10–9–62, Cl. 239—524.

Corley, Boyce M., and O. D. Ratliff, to Phillips Petroleum Co. Propellant extrusion aid. 3,062,694, 11–6–62, Cl. 149—19.
Corley, Charles B., Jr.: *See*—
Calvert, John G., Corley, and Fredd. 3,064,580.
Liles, Joseph R., Jr., Corley, and Loy. 3,051,237.
Tausch, Gilbert H., Corley, and Kenneday. 3,040,813.
Corley, Charles B., Jr., to Jersey Production Research Co. Completion of wells in a plurality of formations. 3,036,-634, 5–29–62, Cl. 166—35.
Corley, Charles B., Jr., J. W. Kenneday, G. H. Tausch, and M. E. True, to Jersey Production Research Co. Gun perforating apparatus for wells. 3,032,109, 5–1–62, Cl. 166—55.5.
Corley, Charles B., Jr., and S. E. Loy III, to Jersey Production Research Co. Subsurface safety valve. 3,032,111, 5–1–62, Cl. 166—65.
Corley, Charles B., Jr., and P. R. McStravick, to Jersey Production Research Co. Telescoping production tube. 3,036,635, 5–29–62, Cl. 166—67.
Corley, Clifton. Toothbrush holder and dentifrice dispenser. 3,020,941, 2–13–62, Cl. 141—360.
Corley, Gale C. Hoist apparatus. 3,028,017, 4–3–62, Cl. 212—58.
Corley, Gale C. Excavating device. 3,053,331, 9–11–62, Cl. 175—202.
Corley, Joseph A.: *See*—
Taylor, Arthur S., and Corley. 3,058,177.
Corley, Joseph A., to American Cyanamid Co. Twin-piston element. 3,035,626, 5–8–62, Cl. 309—4.
Corley, Richard S., to Polaroid Corp. Photographic silver halide developers containing triazine rings. 3,053,656, 9–11–62, Cl. 96—29.
Cormac Chemical Corp.: *See*—
Tohill, James C. 3,060,819.
Cornish, Keith C., and A. D. Aird, to General Electric Co. Electron tube assembly apparatus. 3,049,214, 8–14–62, Cl. 198—19.
Cormier Hosiery Mills, Inc.: *See*—
Marquis, Raymond G. 3,060,709.
Cormier, Leo P. Hair curler with resilient hair fastener. 3,045,685, 7–24–62, Cl. 132—42.
Cormier, Louis A., 50% to N. S. Blodgett. Shield for automobile. 3,047,058, 7–31–62, Cl. 160—45.
Cormier, Norman A.: *See*—
Flagg, John E., and Cormier. 3,021,844.
Flagg, John E., and Cormier. 3,026,227.
Corn, Adolph D., to Whirlpool Corp. Ice cube ejector. 3,031,863, 5–1–62, Cl. 62—362.
Corn Industries Research Foundation, Inc.: *See*—
Rollwitz, William L. 3,045,175.
Corn Products Co.: *See*—
Akerboom, Jack, Melnick, and Perry. 3,038,810.
Donahue, John L. 3,053,663.
Dowie, Douglas W., and Martin. 3,029,169.
Elwood, Francis E., Clune, and Schaub. 3,033,689.
Gooding, Chester M. 3,048,491.
Kerr, Ralph W. 3,017,331.
Kerr, Ralph W. 3,022,184.
Kerr, Ralph W., and Cleveland. 3,021,222.
Kerr, Ralph W., and Katzbeck. 3,061,604.
Kooi, Earl R., Harjes, and Gilkison. 3,042,584.
Lawrence, Robert L., and Perry. 3,022,176.
Meisel, Harry. 3,017,294.
Meisel, Harry, and Jackson. 3,029,168.
Melnick, Daniel. 3,021,219.
Melnick, Daniel, Perry, and Lawrence. 3,065,084.
Melnick, Daniel, Vahlteich, and Bohn. 3,065,080.
Paschall, Eugene F. 3,023,852.
Paschall, Eugene F., Katzbeck, and Hahh. 3,068,124.
Paschall, Eugene F., and Minkema. 3,024,212.
Snyder, Edward C., and Wolfer. 3,066,049.
Cornberg, Sol. Television makeup apparatus. 3,047,654, 7–31–62, Cl. 178—6.8.
Cornell, Hampton G.: *See*—
Andrews, Jack M., Cornell, Peet, and Roquemore. Re. 25,220.
Love, Robert M., Comeaux, Winegartner, Cornell, and Lewis. 3,041,274.
Cornelissen, Boyd, to Texas Instruments Inc. Wafer thickness detector. 3,040,887, 6–26–62, Cl. 209—82.
Cornelius Co., The: *See*—
Cornelius, Richard T. 3,056,273.
Cornelius, Ray D. Telescoping cover for trucks. 3,021,170, 2–13–62, Cl. 296—23.
Cornelius, Richard T., to Stewart-Warner Corp. Bearing. 3,018,145, 1–23–62, Cl. 308—174.
Cornelius, Richard T., to The Cornelius Co. Beverage dispenser. 3,056,273, 10–2–62, Cl. 62—393.
Cornelius, Richard T., to Stewart-Warner Corp. Piston construction. 3,057,668, 10–9–62, Cl. 309—17.
Cornell Aeronautical Laboratory, Inc.: *See*—
Kluge, Robert W. 3,024,729.
Kluge, Robert W. 3,038,408.
Cornell, Allen D., to United-Carr Fastener Corp. Gauging and attaching apparatus. 3,045,856, 7–24–62, Cl. 218—6.
Cornell, Archie R., to Westinghouse Electric Corp. Circuit arrangement for energizing load apparatus. 3,018,410, 1–23–62, Cl. 315—138.
Cornell, Cyrus J. Automatic wood feeding and cutting saw apparatus. 3,019,823, 2–6–62, Cl. 143—47.
Cornell, David, to Monsanto Chemical Co. Extractive distillation process. 3,018,228, 1–23–62, Cl. 202—39.5.
Cornell, David D., and K. T. Buttery, to KVP Sutherland Paper Co. Carton. 3,026,014, 3–20–62, Cl. 229—38.
Cornell-Dubilier Electric Corp.: *See*—
Beyer, Haim. 3,060,356.
Dubilier, William. 3,018,064.
Ferrante, Joseph F. 3,024,393.
Cornell, Edward S., Jr., to Penn-Union Electric Corp. Transformer connector. 3,029,410, 4–10–62, Cl. 339—149.
Cornell, Edward S., Jr., to Penn-Union Electric Corp. Transformer connector. 3,041,574, 6–26–62, Cl. 339—94.
Cornell, Edward S., Jr., to Penn-Union Electric Corp. Stripping device for insulated conductors. 3,057,232, 10–9–62, Cl. 81—9.5.
Cornell, Elliott C., Jr., to The Auto Arc-Weld Mfg. Co. Electrode feed roll means. 3,016,451, 1–9–62, Cl. 219—130.
Cornell, Elliott C., Jr., to The Auto Arc-Weld Mfg. Co. Electrode feed cable and method of making same. 3,056,-102, 9–25–62, Cl. 339—28.
Cornell, Frank J., to The Ohio Crankshaft Co. Variable ratio transformer. 3,058,077, 10–9–62, Cl. 336—150.
Cornell, James N. Concrete milling machine. 3,063,690, 11–13–62, Cl. 262—19.
Cornell, James R.: *See*—
Seidman, Jay J., and Cornell. 3,019,344.
Cornell, John, and D. H. Lester, to The Magnavox Co. Servo motor system. 3,028,547, 4–3–62, Cl. 324—57.
Cornell, John A., to Sartomer Resins, Inc. Method of polymerizing methacrylate ester monomer in the presence of a polymer and a cyclohexyl amine. 3,061,598, 10–30–62, Cl. 260—89.5.
Cornell, John A., to Sartomer Resins, Inc. Polyvinyl chloride plastisol containing an ester plasticizer and triethylene glycol dimethacrylate. 3,066,110, 11–27–62, Cl. 260—30.4.
Cornell, John A., and D. J. Gowman, to Sartomer Resins, Inc. Preparation of dry sodium methacrylate. 3,021,364, 2–13–62, Cl. 260—526.
Cornell, Robert C., to Litemetal Dicast, Inc. Die casting. 3,019,495, 2–6–62, Cl. 22—68.
Corney, Rowe E., Jr.: *See*—
Smith, Tom F. 3,026,770.
Cornick, Roy C. Fish lure. 3,060,619, 10–30–62, Cl. 43—35.
Cornigliano Societa per Asioni: *See*—
Odone, Giovanni, and Milanese. 3,039,900.
Corning Glass Works: *See*—
Allen, Richard E., and Deegan. 3,042,550.
Bacon, James F., Elmer, and Hood. 3,032,659.
Benjamin, Warren O. 3,068,754.
Blanding, Wendell S., Foster, and Spremalli. 3,021,643.
Byer, Marshall, O'Leary, and Reed. 3,040,213.
Claypoole, Stewart A. 3,058,323.
Connelly, John H. 3,022,151.
Dalton, Robert H., and Grego. 3,024,381.
Davis, James K. 3,069,294.
Dunbeck, Joseph T., and Hanf. 3,038,694.
Elmer, Thomas H. 3,054,221.
Freiman, David J. 3,028,034.
Freiman, David J. 3,058,768.
Gott, Allan H. 3,064,125.
Graham, Paul N., and Krampf. 3,058,352.
Hares, George B., and Sheldon. 3,069,578.
Hoover, Herbert L., and Van Dyke. 3,051,915.
Hozie, John P., and Neal. 3,047,716.
Katona, Gabriel P. 3,052,811.
Kragle, Harry A. 3,033,369.
Layton, Margaret M., Randels, and Stockdale. 3,020,456.
Lazar, Nicholas, and McIntosh. 3,051,879.
Mouly, Raymond J. 3,027,657.
Mouly, Raymond J., and Zangari. 3,035,371.
Sawchuk, Peter. 3,034,908.
Seck, Charles F. 3,020,193.
Shand, Errol B., and Stanton. 3,063,267.
Sharek, Clement W. 3,065,353.
Stanton, Courtland C. 3,065,000.
Young, Fletcher F. 3,068,671.
Cornish, Albert J., to Westinghouse Electric Corp. Thermoelectric material. 3,045,057, 7–17–62, Cl. 136—5.
Cornish, Albert J., and R. C. Miller, to Westinghouse Electric Corp. Thermoelectric materials. 3,018,312, 1–23–62, Cl. 136—5.
Cornish, Edward. Carton construction. 3,031,126, 4–24–62, Cl. 229—52.
Cornish, Edwin R., Jr., to United States of America, Army. Constant temperature heater for microtome object discs. 3,023,293, 2–27–62, Cl. 219—19.
Cornish, Harry J.: *See*—
Thomas, Herbert G., Cornish, Shenkle, and Last. 3,045,-486.
Cornish, Raymond, to Buesst & Bills Brothers Proprietary Ltd. Spring assembling machines for the manufacture of inner spring mattresses, upholstered furniture and the like. 3,033,243, 5–8–62, Cl. 140—102.
Cornwall Corp.: *See*—
Moot, John R. 3,043,943.
Cornwell, Ralph T. K., to American Viscose Corp. Vinyl coating composition for flexible films. 3,057,756, 10–9–62, Cl. 117—145.
Coro, Inc. of Rhode Island: *See*—
Feibelman, Hans J. 3,034,320.
Corode Electrochemie S.p.r.l.: *See*—
Mans, Derk B. 3,062,225.

Coron, Ira, and R. C. Mess, to Globe Industries, Inc. Multistage fan. 3,066,850, 12–4–62, Cl. 230—117.
Corp, Paul M., to American Metal Products Co. Machine and method of bending the ends of a spring strip and providing an arch form thereto. 3,022,804, 2–27–62, Cl. 140—71.
Corpew, Charles R., to General Dynamics Corp. Lens deflection in the electron optical system of a cathode ray tube. 3,035,199, 5–15–62, Cl. 313—78.
Corporon, Frederic J. Apparatus for identifying railroad cars. 3,016,456, 1–9–62, Cl. 246—2.
Corr, James R.: *See*—
Carney, Rufus T., and Corr. 3 057,037.
Corrado, Victor M., and R. J. Donahue, to Mergenthaler Linotype Co. Tape perforator for type composing machines. 3,061,182, 10–30–62, Cl. 234—5.
Corral, Joseph S., to North American Aviation, Inc. Titanium forming method and means. 3,060,564, 10–30–62, Cl. 29—552.2.
Correct-Air Corp.: *See*—
Smith, John H. 3,027,736.
Correct Equipment Corp.: *See*—
Fouchert, Walter P. 3,056,274.
Correll, David R. Spiral wire pin retainer. 3,018,121, 1–23–62, Cl. 287—20.
Correll, Gene M.: *See*—
Sacksen, Peter K., and Correll. 3,035,967.
Corren, Sidney A.: *See*—
Coler, Myron A., and Corren. 3,023,259.
Coler, Myron A., and Corren. 3,023,260.
Corren, Sidney A. Integral electrode-separator structure. 3,035,110, 5–15–62, Cl. 136—145.
Correy, Thomas B., to United States of America, Atomic Energy Commission. Method of obtaining an improved weld in inert arc welding. 3,068,352, 12–11–62, Cl. 219—137.
Corrigan, Robert E.: *See*—
Luxton, Dean H., and Corrigan. 3,052,041.
Corrigan, Robert E., and H. C. Becker, to Precon Process and Equip. Corp. Apparatus for producing visual stimulation. 3,060,795, 10–30–62, Cl. 88—16.6.
Corrigan, William C., Jr. Brake control mechanism. 3,054,476, 9–18–62, Cl. 188—3.
Corrobilt Container Co.: *See*—
Bruns, William H., and Lingenfelter. 3,063,615.
Corrodi, Hans R., E. Hardegger, F. Kogl, and P. Zeller, to Hoffmann-La Roche Inc. Tetrahydrofurfuryl ammonium compounds and preparation thereof. 3,057,879, 10–9–62, Cl. 260—347.3.
Corro-Lith Corp.: *See*—
Kuflik, Emanuel. 3,065,848.
Corrsin, Lester, to United Nuclear Corp. Operating time indicator. 3,045,178, 7–17–62, Cl. 324—68.
Corry, Stuart E. Derrick mast with load checking mechanism. 3,060,732, 10–30–62, Cl. 73—141.
Corsaw, Harry B. Ball valve guide apparatus. 3,040,334, 6–26–62, Cl. 4—57.
Corsaw, Harry B. Ball valve guide apparatus. 3,068,489, 12–18–62, Cl. 4—57.
Corsentino, Joseph, to Better Industries, Inc. Apparatus for producing fibers from molten material. Re. 25,306, 12–25–62, Cl. 65—15.
Corsette, Douglas F., to The Drackett Co. Pump pistons. 3,044,413, 7–17–62, Cl. 103—178.
Corsette, Douglas F., to The Drackett Co. Liquid dispenser. 3,053,459, 9–11–62, Cl. 239—337.
Corsette, Douglas F., to The Drackett Co. Container closure. 3,069,040, 12–18–62, Cl. 215—41.
Corsi, Luigi: *See*—
Marullo, Gerlando, Agamennone, and Corsi. 3,052,724.
Corson, Alan S.: *See*—
Guarino, Louis S., and Corson. 3,070,793.
Corson, Bayard R., to Westinghouse Electric Corp. Electron discharge tube. 3,054,923, 9–18–62, Cl. 313—261.
Corson, Ben B., and H. Moe, to Koppers Co., Inc. Preparation of 2-phenylnaphthalene. 3,047,643, 7–31–62, Cl. 260—668.
Corson, Bolton L. Shaft kiln with orifice controlled combustion. 3,048,381, 8–7–62, Cl. 263—29.
Corson, Bolton L., and C. A. Danforth, to G. & W. H. Corson, Inc. Material treating device. 3,022,988, 2–27–62, Cl. 263—21.
Corson, G. & W. H., Inc.: *See*—
Corson, Bolton L., and Danforth. 3,022,988.
Corson, William E.: *See*—
Corson, William G. and W. E. 3,058,738.
Corson, William G. and W. E. Bumper unit for truck loading docks or the like. 3,058,738, 10–16–62, Cl. 267—1.
Cortabarria, Fernando A., to Contrucciones Mecanicas Textiles, S.A. Textile spindle. 3,019,591, 2–6–62, Cl. 57—135.
Corte, Herbert: *See*—
Marzolph, Herbert, Ruf, and Corte. 3,051,741.
Cortelli, John A.: *See*—
Szabo, William F., Collings, and Cortelli. 3,032,146.
Cortes, Francis R., to Universal-Cyclops Steel Corp. Electropolishing refractory metals. 3,033,769, 5–8–62, Cl. 204—140.5.
Cortese, Joseph, and J. Vollman, deceased (V. H. Eichhorn, administrator), to The Singer Mfg. Co. Thread severing means for sewing machines. 3,051,111, 8–28–62, Cl. 112—252.
Cortina, Anthony. Replaceable rubber shoe heel. 3,063,168, 11–13–62. Cl. 36—36.
Cortina, Anthony. Detachable rubber shoe heel. 3,063,169, 11–13–62, Cl. 36—36.
Cortiss, Warren W.: *See*—
Manteuffel, Allan A., and Cortiss. 3,062,743.
Cortiss, Warren W., to The Pure Oil Co. Apparatus for determining surface activity of liquids. 3,060,727, 10–30–62. Cl. 73—53.
Cortiss, Warren W., W. D. Gilson, and A. A. Manteuffel, to The Pure Oil Co. High phosphorus content extreme pressure lubricant additive and method of preparation thereof. 3,043,773, 7–10–62, Cl. 252—46.7.
Corvisier, Louis R. Device for transferring motion through an imperforate seal. 3,026,732, 3–27–62, Cl. 74—18.
Corvisier, Louis R. Apparatus for mixing liquids in a constant proportion. 3,054,417, 9–18–62, Cl. 137—99.
Corwin, Alsoph H.: *See*—
Craig, Harry L., Alderks, Corwin, Dieke, and Karel. 3,060,165.
Corwin, Howard D., to The Tomkins-Johnson Co. Cylinder construction. 3,038,448, 6–12–62, Cl. 121—38.
Cory Corp.: *See*—
Eisendrath, David C. 3,044,272.
Eisendrath, David C., and Karlen. 3,059,822.
Karlen, Harvey R. 3,022,894.
Ziff, Seymour. 3,062,203.
Cory, Wm., & Son Ltd.: *See*—
Brown, Robert H. 3,021,809.
Brown, Robert H. 3,040,689.
Cortlett, Ewan C. B. 3,043,256.
Coryell, Floyd. Portable escalator. 3,033,340, 5–8–62, Cl. 198—16.
Cosby, Edgar H. Power transmission for variable speed and torque. 3,048,046, 8–7–62, Cl. 74—191.
Cosby, James R., to The Bendix Corp. Pressure responsive device combined with positive feedback oscillator circuit. 3,019,397, 1–30–62, Cl. 331—65.
Cosby, John W.: *See*—
Geib, Ervin R., Cosby, and Kershaw. 3,023,923.
Coscia, Lewis G., and H. R. Grander, Jr., to Bethlehem Steel Co. Heat treatment of continuous strand. 3,045,094, 7–17–62. Cl. 219—10.41.
Cosden Petroleum Corp.: *See*—
Dyer, Robert H., and Brown. 3,047,534.
White, Roy A. 3,068,192.
Cosgrove, Stanley: *See*—
Lawton, Emil A., Allen, and Cosgrove. 3,023,162.
Coski, Bernard J. Percussion tool with replaceable point. 3,027,933, 4–3–62, Cl. 175—409.
Cosman, Alfred F.: *See*—
Spencer, Walter B., Smith, and Cosman. 3,024,089.
Cosmocord Ltd.: *See*—
Heinlein, Carl T. 3,067,296.
Planer, George V. and Windebank. 3,061,771.
Walton, Jean. 3,051,494.
Coss, George R.: *See*—
Clearman, Jack F., and Coss. 3,029,535.
Coss, George R., to Whirlpool Corp. Automatic dry cleaning machine having door switch controls. 3,065,619, 11–27–62, Cl. 68—12.
Cossaboom, George E.: *See*—
Steinert, Emil F., Rebuffoni, Pettit, and Cossaboom. 3,058,031.
Cossaboon, Karl F., to E. I. du Pont de Nemours and Co. Apparatus for treatment of webs. 3,055,337, 9–25–62, Cl. 118—41.
Cossar, Bernard C.: *See*—
Burness, Donald M., Kennard, and Cossar. 3,061,437.
Williams, Jack L. R., and Cossar. 3,021,215.
Cosse, Claude, and F. Loy, to Telecommunications, Radioelectriques et Telephoniques R.T. (Societe Anonyme). Proximity fuse. 3,046,892, 7–31–62, Cl. 102—70.2.
Cosson, A. C., Ltd.: *See*—
Le Boutillier, Arthur, and Stevens. 3,039,432.
Perkins, Leonard. 3,048,835.
Taylor, Donald W. 3,048,751.
Cost, Joe L., to Air Products and Chemicals, Inc. Separation of gaseous mixtures. 3,062,015, 11–6–62, Cl. 62—17.
Costa, Ernest: *See*—
Geffner, Ted, and Costa. 3,037,805.
Geffner, Ted, and Costa. 3,057,652.
Costa, Philip J.: *See*—
Eger, George W., Jr., and Costa. 3,025,722.
Costantini, Anthony R., and A. Di Angelus, to Victory Metal Mfg. Co., d.b.a. Victory Metal Mfg. Corp. Refrigerating apparatus. 3,019,620, 2–6–62, Cl. 62—418.
Costanzo, Frank X., to Victaulic Co. of America. Coupling of lined pipe and methods. 3,020,068, 2–6–62, Cl. 285—55.
Costanzo, Raphael J., to Harvey Hubbell, Inc. Touch controlled circuit. 3,056,907, 10–2–62, Cl. 317—149.
Costar, Don G. Leg height adjuster. 3,030,730, 4–24–62, Cl. 45—139.
Costas, John P., to General Electric Co. Receiver for communication system. 3,047,659, 7–31–62. Cl. 178—88.
Costas, John P., to General Electric Co. Means for obtaining character time in a radio communication system receiver. 3,047,660, 7–31–62, Cl. 178—88.
Costello, Charles A., H. J. Richards, and A. J. Wesolowski, to General Electric Co. Dynamoelectric machine. 3,065,367, 11–20–62, Cl. 310—271.

Costello, Christopher H., to Philips Roxane, Inc. Sustained release pharmaceutical tablet. 3,062,720, 11–6–62, Cl. 167—82.

Costello, George T., W. O. Dickinson, P. J. Dreher, and J. H. Nicklas, to National Heater Co., Inc. Burner. 3,049,173, 8–14–62, Cl. 158—110.

Costello, Martin J.: *See*—
Doyle, Collin M., and Costello. 3,050,238.

Costello, Otto A.: *See*—
Frushour, Russel E., Costello, Farekas, and Irish. 3,064,-540.

Costello, Raymond F., and F. O'Brian. Constant prime rapid recovery pump. 3,068,802, 12–18–62, Cl. 103—113.

Costello, Robert B., to The M. W. Kellogg Co. Radioactive isotope combination. 3,017,514, 1–16–62, Cl. 250—106.

Costello, Thomas P., to Westinghouse Electric Corp. Capacitor housing for electric motors. 3,030,532, 4–17–62, Cl. 310—72.

Costello, William T., to E. C. Croul. Sanding pad. 3,030,-742, 4–24–62, Cl. 51—185.

Costelloe, Robert D.: *See*—
Wilton, Herbert C., and Costelloe. 3,018,908.

Costruzioni Aeronautiche Giovanni Agusta S.p.A.: *See*—
Agusta, Domenico. 3,036,797.

Cosway, Harry F., and D. F. De Lapp, to American Cyanamid Co. Method of handling phosphoric acid. 3,027,236, 3–27–62, Cl. 23—165.

Cotchett, Louis M., deceased, by H. M. Cotchett, executrix, to Machinecraft, Inc. Spinning frames. 3,035,314, 5–22–62, Cl. 19—294.

Cotchett, Louis M., deceased, by M. H. Cotchett, executrix, to Machinecraft, Inc. Spinning frames. 3,058,170, 10–16–62, Cl. 19—293.

Cotchett, Marjorie H.: *See*—
Cotchett, Louis M. 3,035,314.
Cotchett, Louis M. 3,058,170.

Cote, Felix. Trench wall retainer. 3,016,714, 1–16–62, Cl. 61—41.

Cote, Gustave, to H. Lapointe. Liquid wax applier. 3,069,-717, 12–25–62, Cl. 15—546.

Cote, Joseph N.: *See*—
Bacon, Arnold, Silverman, and Cote. 3,023,435.

Cote, Lawrence. Rotary arm quiver. 3,040,942, 6–26–62, Cl. 224—28.

Cote, Oscar E. Pipe hanger insert structure. 3,022,971, 2–27–62, Cl. 248—58.

Cote, Raymond A., to Container Corp. of America. Can carton with chime engaging tabs. Re. 25,111, 1–9–62, Cl. 206—65.

Cote, Raymond A., to Olin Mathieson Chemical Corp. Wrapper carton having fixed central partition. 3,061,141, 10–30–62, Cl. 220—113.

Cote, Raymond A., to Olin Mathieson Chemical Corp. Bottle carrier. 3,061,142, 10–30–62, Cl. 220—113.

Cote, Thomas P., and E. L. Nash, to General Motors Corp. Differential assembly. 3,069,928, 12–25–62, Cl. 74—713.

Cotesworth, Harry A., and A. J. Wakkila, to The Cleveland Crane & Engineering Co. Overhead monorail system. 3,062,155, 11–6–62, Cl. 104—98.

Cotey, Gus, to Pioneer Industries, Inc. Belt supporting device. 3,028,013, 4–3–62, Cl. 211—13.

Cothran, Charles D., to Brogdex Co. Method for degreening and immunizing fresh fruit. 3,034,903, 5–15–62, Cl. 99—154.

Cothron, Lawson B. Combination identificaiton card and key and lock therefor. 3,058,335, 10–16–62, Cl. 70—355.

Cotner, Basil U.: *See*—
Park, Orrin J., and Cotner. 3,055,401.

Cottell, Eric C., to Sonic Engineering Corp. Rotary pumps and compressors. 3,059,584, 10–23–62, Cl. 103—126.

Cotten, Joseph A.: *See*—
Stewart, John W., and Cotten. 3,038,725.

Cotter, George H.: *See*—
Gamberg, Edward R., and Cotter. 3,059,101.

Cotter, George H., E. R. Gamberg, and H. J. Bichsel, to Westinghouse Electric Corp. Welding electrodes. 3,030,496, 4–17–62, Cl. 219—145.

Cotter, George H., and H. J. Bichsel, to Westinghouse Electric Corp. Arc welding apparatus. 3,038,990, 6–12–62, Cl. 219—130.

Cotter, Robert J.: *See*—
Sauers, Carol K., and Cotter. 3,018,290.
Sauers, Carol K., and Cotter. 3,018,292.
Sauers, Carol K., and Cotter. 3,023,240.
Sauers, Carol K., and Cotter. 3,035,065.
Sauers, Carol K., and Cotter. 3,041,376.

Cotterill, Colin B.: *See*—
Dean, Fred, and Cotterill. 3,053,883.

Cotterman, Frank D.: *See*—
Magis, John P., Bredtschneider, Cotterman, Black, and Rodda. 3,053,554.

Cottier, Louis: *See*—
Terraz, Marius. 3,049,864.

Cotting, Roger B. Bathtub construction. 3,020,561, 2–13–62, Cl. 4—173.

Cottle, Delmer L.: *See*—
Lemiszka, Theodore, Cottle, and Minckler. 3,028,346.
Minckler, Leon S., Cottle, and Muessig. 3,057,834.
Minckler, Leon S., Jr., and Cottle. 3,051,680.
Minckler, Leon S., Jr., Feifer, and Cottle. 3,033,837.
Minckler, Leon S., Jr., Lemiszka, and Cottle. 3,028,373.
Seelbach, Charles W., and Cottle. 3,058,966.

Cottle, Delmer L., to Esso Research and Engineering Co. Halogenation of low unsaturation rubbery polymers in the presence of oxidizing agent. 3,018,275, 1–23–62, Cl. 260—85.3.

Cottle, Delmer L., L. S. Minckler, Jr., and M. Fefer, to Esso Research and Engineering Co. Process consisting essentially of reacting thiourea compound and a halogenated iso-olefin-multiolefin copolymer, resulting product and vulcanizate of same. 3,037,968, 6–5–62, Cl. 260—79.

Cottle, Delmer L., L. S. Minckler, Jr., and T. Lemiszka, to Esso Research and Engineering Co. Process for halogenating copolymers. 3,042,662, 7–3–62, Cl. 260—85.3.

Cottle, John B., and R. G. Wallace, to Phillips Petroleum Co. Disposal of spent filter cake. 3,026,314, 3–20–62, Cl. 260—94.9.

Cotton, James F., and D. A. Nevels, to West Point Mfg. Co. Process for preventing quaternary nitrogen compound odors. 3,027,270, 3–27–62, Cl. 117—62.

Cotton, Norman L. Stripping device. 3,055,091, 9–25–62, Cl. 29—200.

Cotton, Raymond A.: *See*—
Chilman, John A., and Cotton. 3,067,825.

Cotton, Robert S.: *See*—
Reinfeldt, Kurt, and Cotton. 3,025,046.

Cotton, Robert S., to Koppers Co., Inc. Self-sealing sintering machine and sinter cooler. 3,059,912, 10–23–62, Cl. 266—21.

Cotton, Robert S., to Koppers Co., Inc. Sequence interlock for coke oven door operating valves. 3,069,022, 12–18–62, Cl. 202—4.

Cotton, Sherwood M.: *See*—
Friedman, Bernard S., and Cotton. 3,052,698.

Cotton Silk and Man-Made Fibres Research Assn., The: *See*—
Doleman, Jack. 3,052,989.
Linnert, Arthur, and Lyon. 3,057,567.

Cotton, William, Ltd.: *See*—
Blood, Raymond. 3,050,971.
Brown, Leonard, Barradell, and Ladbrooke. 3,058,325.
McCarthy, Patrick G. 3,050,969.
Taylor, George E. 3,050,957.

Cottone, Daniel T., to Curtiss-Wright Corp. Power switching mechanism. 3,068,977, 12–18–62, Cl. 192—18.

Cottrell Co., The: *See*—
Luehrs, Hans J. 3,016,010.
Luehrs, Hans J. 3,028,805.
Luehrs, Hans J. 3,028,806.
Meyer, Joseph E. 3,043,216.

Cotts, Louis C. Electric space heating furnace. 3,029,332, 4–10–62, Cl. 219—39.

Coty, Anne: *See*—
Coty, Fred P. 3,026,186.

Coty, Fred P., deceased; A. Coty, administratrix. Catalytic apparatus. 3,026,186, 3–20–62, Cl. 23—288.

Coty, Inc.: *See*—
Clements, John E., and Heinrich. 3,028,000.
De Kolb, Eric. 3,040,878.

Coubert, Benjamin L. Nut and fruit harvesting brush. 3,021,661, 2–20–62, Cl. 56—364.

Couburn, Richard, to United States of America, Navy. Time compression projector for photographic film. 3,057,252, 10–9–62, Cl. 88—16.8.

Couch, Dwight E., H. Shapiro, A. Brenner, and J. H. Connor, to United States of America, Navy. Nickel-aluminum alloy coatings. 3,046,205, 7–24–62, Cl. 204—37.

Couch, Robert de S., and M. Yezek, to General Foods Corp. Moisture-resistant container. 3,015,596, 1–2–62, Cl. 154—50.

Couch, Robert de S., and M. Yezek, to General Foods Corp. Frozen food package. 3,049,429, 8–14–62, Cl. 99—192.

Couchot, Ralph A. Hedge trimmer. 3,025,655, 3–20–62, Cl. 56—233.

Coudek, Irene M.: *See*—
Coudek, John J. 3,025,783.

Coudek, John J., 50% to I. M. Coudek. Rotisserie basket. 3,025,783, 3–20–62, Cl. 99—345.

Couffer, Robert W., Jr., and J. M. Algino, to The Dole Valve Co. Pneumatic relay system. 3,029,324, 4–10–62, Cl. 200—83.

Couffer, Robert W., Jr., and J. M. Algino, to The Dole Valve Co. Pneumatic relay system. 3,040,766, 6–26–62, Cl. 137—102.

Coughlin, Jack M.: *See*—
Rowan, Hartley D., and Coughlin. 3,033,242.

Coughran, Samuel J.: *See*—
Heckathorn, Loyd E., and Coughran. 3,042,120.

Coughran, Samuel J., to Towner Mfg. Co. Disc hitch and wheel control system. 3,063,737, 11–13–62, Cl. 280—415.5.

Couillaud, Andre, and J. Racine, deceased (by J. G. G. D. Racine, legal representative), to Roussel-UCLAF Societe Anonyme. Copper complex of dimethyl dithiocarbamic acid and preparation thereof. 3,037,041, 5–29–62, Cl. 260—438.

Couleur, John F., to General Electric Co. Binary to decimal conversion. 3,026,034, 3–20–62, Cl. 235—155.

Couleur, John F., to General Electric Co. Decimal to binary conversion. 3,026,035, 3–20–62, Cl. 235—155.

Couleur, John F., to General Electric Co. Decimal to binary conversion of numbers less than unity. 3,032,266, 5–1–62, Cl. 235—155.

Coulliette, James H.: *See*—
Cook, Ocie, Jr., and Coulliette. 3,016,192.

Coulon, Edward, to Vogel Tool & Die Corp. Apparatus for slotting the ends of tubing. 3,033,066, 5–8–62, Cl. 83—191.

Couloriotes, James G., to Avco Corp. Test fixture. 3,043,-135, 7–10–62, Cl. 73—103.

Coulson, Dale M., and L. A. Cavanagh, to Dohrmann Instruments Co. Electrolytic titration apparatus. 3,032,493, 5–1–62, Cl. 204—195.

Coulson, John R., and W. E. Llewellyn, to E. I. du Pont de Nemours and Co. End-closure. 3,043,471, 7–10–62, Cl. 220—96.

Coulson, Walter. Adapter for dial indicator gauge. 3,044,-174, Cl. 33—178.

Coulson, Walter. Adapter for dial indicator gauge. 3,054,-189, 9–18–62, Cl. 33—147.

Coulter, Albert L. Clamp on throttle control. 3,063,121, 11–13–62, Cl. 24—243.

Coulter Electronics, Inc.: *See*—
Coulter, Wallace H., and J. R. Coulter, Jr. 3,015,775.

Coulter, Joseph R., Jr.: *See*—
Coulter, Wallace H., and J. R. Coulter, Jr. 3,015,775.

Coulter, Samuel T., to Regents of The University of Minnesota. Method for improving butter spreadability. 3,017,-275, 1–16–62, Cl. 99—121.

Coulter, Thomas H., to Dumas Milner Corp. Protection of plant life from frost damage. 3,045,394, 7–24–62, Cl. 47—2.

Coulter, Wallace H., and J. R. Coulter, Jr., to Coulter Electronics, Inc. Fluid metering system and apparatus. 3,015,775, 1–2–62, Cl. 324—71.

Coultrap, Keith H.: *See*—
Sherts, James H., Terry, and Coultrap. 3,041,224.

Coultrip, Raymond L., to General Electric Co. Surface cooking units. 3,065,327, 11–20–62, Cl. 219—37.

Councelman, Carl W., to Amphenol-Borg Electronics Corp. Coaxial connector socket assembly. 3,059,208, 10–16–62, Cl. 339—65.

Counsell, Raymond E.: *See*—
Klimstra, Paul D., and Counsell. 3,018,298.

Counsell, Raymond E., to G. D. Searle & Co. N-substituted alkyl)amino-5α-androstan-17β-ols. 3,016,390, 1–9–62, Cl. 260—397.5.

Council, Dansby A. Belt-operated merchandise dispensing cabinet. 3,064,856, 11–20–62, Cl. 221—13.

Council, Dansby A., and R. J. Henderson, to Council Mfg. Corp. Ice making machine. 3,068,660, 12–18–62, Cl. 62—139.

Council Mfg. Corp.: *See*—
Council, Dansby A., and Henderson. 3,068,660.

Council of Scientific and Industrial Research: *See*—
Gibson, Eric J. 3,051,737.
Nayak, Ulal G., Chakravarti, and Bhattacharyya. 3,070,-624.
Seshadri, Tiruvenkata R., and Chander. 3,043,856.

Counts, Herbert. Animal traps. 3,068,608, 12–18–62, Cl. 43—87.

Counts, Paul. Shoe cleaner. 3,048,867, 8–14–62, Cl. 15—36.

Counts, Thomas O.: *See*—
Sheldahl, David B., and Counts. 3,017,257.
Sheldahl, David B., and Counts. 3,024,259.
Sheldahl, David B., and Counts. 3,040,074.

Counts, William E., to General Motors Corp. Permanent magnet. 3,053,770, 9–11–62, Cl. 252—62.5.

County Commercial Cars Ltd.: *See*—
Tapp, Ernest T. J. 3,029,888.
Tapp, Ernest T. J., and Davey. 3,054,468.

Couquet, Hubert, to Usines Tanvez. Excavators, notably trenchers. 3,027,026, 3–27–62, Cl. 214—138.

Cour, Gene J., to International Business Machines Corp. Bit gate generator. 3,017,627, 1–16–62, Cl. 340—350.

Couret, Robert F.: *See*—
Lapeyre, Fernand S. and J. M., Demarest, and Couret. 3,037,237.

Courneya, Calice G., 50% to B. J. Reger. D. C. motor commutator construction. 3,020,429, 2–6–62, Cl. 310—234.

Course, Kenneth W.: *See*—
Minett, Herbert H. B., and Course. 3,046,896.

Coursen, David L., to E. I. du Pont de Nemours and Co. Surface wave generator. 3,016,831, 1–16–62, Cl. 102—22.

Coursen, David L., to E. I. du Pont de Nemours and Co. Detonation-wave shaper. 3,035,518, 5–22–62, Cl. 102—22.

Coursen, David L., G. A. Noddin, and J. I. Reilly, to E. I. du Pont de Nemours and Co. Explosive compaction of powders. 3,022,544, 2–27–62, Cl. 18—59.3.

Coursen, David L., and N. G. Johnson, to E. I. du Pont de Nemours and Co. Geophysical prospecting. 3,062,313, 11–6–62, Cl. 181—.5.

Coursey, James E.: *See*—
Tripp, Elbert S., and Coursey. 3,041,007.

Coursey, James S. Cushion. 3,061,844, 11–6–62, Cl. 5—338.

Coursey, Ralph W. System for transferring automobiles and the like to and from storage carriages. 3,054,518, 9–18–62, Cl. 214—16.1.

Court, Benjamin F. Engine muffler. 3,031,824, 5–1–62, Cl. 55—217.

Court, Patrick R. J. Racing toy. 3,054,218, 9–18–62, Cl. 46—247.

Court, Patrick R. J., C. A. S. Akrell, and G. E. Lowitz, to Paramount Pictures Corp. Receiver attachment. 3,041,-389, 6–26–62, Cl. 178—5.1.

Courtaulds Ltd.: *See*—
Akhtar, Mohd. 3,049,412.
Akhtar, Mohd, and Bullas. 3,065,665.
Aldred, Fred C., Grew, and Townsend. 3,069,784.
Carpenter, Albert S., and Timms. 3,066,008.
Chapman, Dennis R., and Felks. 3,043,537.
Coles, Walter V., and Wilson. 3,060,729.
Field, John E., and Schmidt. 3,047,363.
Furness, Vera I. 3,058,957.
Furness, Vera I. 3,060,142.
Gilboy, Eric W. F., and Cameron. 3,023,482.
Hibbert, William, and Bunting. 3,033,000.
Hilton, A. Beekman. 3,025,622.
Wilson, George H. 3,029,347.

Courtaulds North America Inc.: *See*—
Daul, George C., Wise, and Wharton. 3,038,777.
Lund, Geoffrey V. 3,039,167.

Courtenay, Jerzy L.: *See*—
Westbury, Roy, Courtenay, and Edwards. 3,023,638.

Courtin, Jacques. Massaging installation and control apparatus therefor. 3,058,461, 10–16–62, Cl. 128—38.

Courtney, Edward J. Adapter for tubular bobbins. 3,055,-609, 9–25–62, Cl. 242—130.1.

Courtney, Joseph F., 50% to J. R. Hartley, and 50% to L. J. Donnaud. Internal pipe cutter. 3,052,024, 9–4–62, Cl. 30—105.

Courtney-Pratt, Jeofry S., to Bell Telephone Laboratories, Inc. Accelerometers. 3,015,959, 1–9–62, Cl. 73—517.

Courtney-Pratt, Jeofry S., to Bell Telephone Laboratories, Inc. Optical device for use in controlling light transmission. 3,030,852, 4–24–62, Cl. 88—1.

Courtney-Pratt, Jeofry S., to Bell Telephone Laboratories, Inc. High speed shutter. 3,036,152, 5–22–62, Cl. 178—6.8.

Courtney-Pratt, Jeofry S., to Bell Telephone Laboratories, Inc. High speed shutter. 3,043,960, 7–10–62, Cl. 250—213.

Courtois, Francis, to Societe Genevoise d'Instruments de Physique. Machine tool comprising a tool-holder spindle provided with a centering cone and a device for clamping into position and for extracting said tool. 3,027,812, 4–3–62, Cl. 90—11.

Courtot, Louis B., and F. R. Allin, to The Weatherhead Co. Swivel joint with helically wound flexible hose attached to housing members. 3,026,129, 3–20–62, Cl. 285—184.

Courtot, Louis B., and G. E. Tanker, to The Weatherhead Co. Fluid pressure regulator valve. 3,056,424, 10–2–62, Cl. 137—505.46.

Courtright, George W., 45% to H. A. Clark. Weeder fork. 3,065,015, 11–20–62, Cl. 294—19.

Courtright, William R. Live bait fish hooks. 3,046,691, 7–31–62, Cl. 43—44.8.

Cousin, Charles: *See*—
Fourcade, Robert, Cousin, Van De Walle, and Nicco. 3,058,972.

Cousino, Bernard A., to Cousino Electronics Corp. Tape reel and driving means therefor. 3,030,041, 4–17–62, Cl. 242—55.19.

Cousino Electronics Corp.: *See*—
Cousino, Bernard A. 3,030,041.

Cousino, Elwin F., and R. E. Brown, to Southern Chemicals, Inc. Shock absorbing structure. 3,022,712, 2–27–62, Cl. 94—7.

Cousino, Walter F. Method of making metal rings. 3,021,593, 2–20–62, Cl. 29—417.

Cousino, Walter P., and B. L. Palmer, to Chrysler Corp. Brake master cylinder. 3,048,980, 8–14–62, Cl. 60—54.6.

Cousins, Eric J.: *See*—
Seadron, Marvin D., and Cousins. 3,032,444.

Cousins, Sydne. Brassiere. 3,054,408, 9–18–62, Cl. 128—484.

Coussemant, Fernand: *See*—
Hellin, Michel, Coussemant, Lumbroso, Servaud, and Alexandre. 3,057,923.
Hellin, Michel, Coussemant, Lumbroso, Servaud, and Alexandre. 3,060,238.
Hellin, Michel, Coussemant, Lumbroso, Servaud, and Alexandre. 3,060,239.
Hellin, Michel, Coussemant, Lumbroso, and Servaud. 3,060,240.

Cousteau, Jacques Y.: *See*—
Gagnan, Emile, and Cousteau. 3,028,860.

Couture, George, to St. Lawrence Mfg. Co., Inc. Ice skate. 3,041,080, 6–26–62, Cl. 280—11.12.

Couturier, Robert A.: *See*—
Diamond, Lew H., and Couturier. 3,018,851.

Couty, Donald E., and J. F. Simmons, 16⅔% to C. Honzel, 16⅔% to V. Emery, 16⅔% to J. Kilzer, and 50% to D. B. Allison. Means for flattening cans. 3,066,600, 12–4–62, Cl. 100—176.

Couzens, Joseph J., to South Bend Toy Mfg. Co., Inc. Footrest for stroller. 3,056,611, 10–2–62, Cl. 280—47.38.

Coval, Arthur B.: *See*—
Lee, Arthur L., and Coval. 3,038,564.
Lee, Arthur L., and Coval. 3,047,115.
Lee, Arthur L., and Coval. 3,064,488.
Lee, Arthur L., and Coval. 3,067,698.

Covely, Frank D., 3rd, to Radio Corp. of America. Multiple target automatic track-while-scan radar. 3,050,722, 8–21–62, Cl. 342—11.

Covely, Frank D., 3rd, and D. J. Parker, to Radio Corp. of America. High resolution recording and display. 3,068,-465, 12–11–62, Cl. 343—5.

Cover, Hunter H., Jr.: *See*—
Bjerklie, John W., and Cover. 3,059,429.

Cover, Neville E., to Beautronics, Inc. Hair treating device. 3,044,473, 7–17–62, Cl. 132—9.
Covert, Calvin C., to General Motors Corp. Propeller control mechanism. 3,026,740, 3–27–62, Cl. 74—395.
Covert, James L., to Kentucky Metal Products Co. Method and apparatus for making welded honeycomb. 3,028,481, 4–3–62, Cl. 219—80.
Covert, John N.: *See*—
Hale, Arthur N., Covert, and Volkmann. 3,044,428.
Coviello, Anthony R. Reversible disc plow. 3,039,538, 6–19–62, Cl. 172—212.
Coviello, Joseph. Tire chain. 3,038,514, 6–12–62, Cl. 152—233.
Covington, Edward R., and J. W. Meier, to E. I. du Pont de Nemours and Co. Packaging film and process for preparation thereof. 3,018,197, 1–23–62, Cl. 117—145.
Covington, Edward R., and J. W. Meier, to E. I. du Pont de Nemours and Co. Process for coating flexible, nonfibrous organic substrates with an aged aqueous dispersion of particles of a copolymer of vinylidene chloride. 3,057,-752, 10–9–62, Cl. 117—118.2.
Covington, Loren C., to Titanium Metals Corp. of America. Descaling titanium and titanium alloy articles. 3,048,528, 8–7–62, Cl. 204—141.
Cowan, Clyde L., Jr. Radiation counter. 3,035,172, 5–15–62, Cl. 250—71.5.
Cowan, David M., W. T. Rickets, and S. P. Cowan, said Rickets assor. to said D. M. Cowan, and said S. P. Cowan. Optical apparatus. 3,058,238, 10–16–62, Cl. 35—19.
Cowan, Harold L. Paper tape element of the joint sealing assembly of walls composed of wallboard. 3,038,277, 6–12–62, Cl. 50—194.
Cowan, John C.: *See*—
Scholfield, Charles R., Cowan, and Friedrich. 3,041,360.
Cowan. Robert E.: *See*—
Stoddard, Stephen D., Nuckolls, and Cowan. 3,052,532.
Cowan, Stanley P.: *See*—
Cowan, David M., Rickets, and S. P. Cowan. 3,058,238.
Cowan, Tyson G., to International Business Machines Corp. Mounting and operating means for a pneumostatic transducer head. 3,018,152, 1–23–62, Cl. 346—74.
Cowart, Brooks E.: *See*—
Ball, Lloyd D., Cowart, Crane, and Knowlton. 3,056,-128
Cowden, Herbert B., and L. Weisler, to Eastman Kodak Co. Photographic colloid transfer process. 3,057,721, 10–9–62, Cl. 96—28.
Cowden, Robert R.: *See*—
Lewis, James T., Jr., Crabiel, and Cowden. 3,020,678.
Cowdrey, Frank W.: *See*—
Collins, Donald F., and Cowdrey. 3,070,128.
Cowell, Elmer E., and J. R. Darby, to Monsanto Chemical Co. Vinylidene polymer plastisols and method of preparing same. 3,042,644, 7–3–62, Cl. 260—31.8.
Cowen, Theodore A., Jr.: *See*—
Engel, Royce G., Jr., and Cowen. 3,039,727.
Cowherd, Edwin R., W. C. Bauman, and R. M. Wiley, to The Dow Chemical Co. Sulfonation of alkenylaromatic resins with sulfuric acid. 3,056,765, 10–2–62, Cl. 260—79.3.
Cowherd, Robert D. Electropneumatic control circuit. 3,051,872, 8–28–62, Cl. 317—123.
Cowlard, Michael J.: *See*—
Collis, Ronald T. H., Welch, and Cowlard. 3,041,604.
Cowles, Catherine B.: *See*—
Cowles, Edwin, and Bowen. 3,055,599.
Cowles, Edwin, to John W. Bolton & Sons, Inc. Apparatus for pulping paper stock. 3,043,526, 7–10–62, Cl. 241—46.
Cowles, Edwin, and K. H. Bowen, ½ to said E. Cowles, and ½ to C. B. Cowles. Pepper mills. 3,055,599, 9–25–62, Cl. 241—169.
Cowles, Roderick J., and H. F. Stedman, to Arthur D. Little, Inc. Process for coating and heat treating a metal article and coating composition. 3,037,878, 6–5–62, Cl. 117—6.
Cowles, Warren H.: *See*—
Fleming, Robert S., Cowles, and Ensinger. 3,021,820.
Fleming, Robert S., Cowles, and Ensinger. 3,068,648.
Cowles, Warren H., and J. Karpas, Jr., to Holley Carburetor Co. Fuel supply system. 3,033,277, 5–8–62, Cl. 158—36.4.
Cowles, Warren H., and J. M. Ladd, to Holley Carburetor Co. Ramjet fuel control. 3,037,350, 6–5–62, Cl. 60—39.28.
Cowley, Calvin C.: *See*—
Wall, Wendell L., Cowley, and Hamilton. 3,050,059.
Cowley, Calvin C., to Don Baxter, Inc. Administration set. 3,057,350, 10–9–62, Cl. 128—214.
Cowley, Charles H.: *See*—
Boicey, James H., and Cowley. 3,029,177.
Davis, Donald A., and Cowley. 3,048,943.
Cowley, Charles H., to Libbey-Owens-Ford Glass Co. Apparatus for producing multiple sheet glazing units. 3,048,944, 8–14–62, Cl. 49—1.
Cowley, Richard T., to United States of America, Navy. Sealing arrangement for a pivoted closure. 3,064,539, 11–20–62, Cl. 89—37.5.
Cox, Alvon R., and A. E. Hosier, to The Faultless Rubber Co. Manufacture of hollow plastic articles and articles produced thereby. 3,055,054, 9–25–62, Cl. 18—26.
Cox, Arthur, and Sons, Inc.: *See*—
Cox, Arthur T. 3,020,582.
Cox, Arthur, and I. C. Sandback, to Bell & Howell Co. Optical objective. 3,020,804, 2–13–62, Cl. 88—57.
Cox, Arthur, and W. R. Linke, to Bell & Howell Co. Variable magnification afocal lens member. 3,023,673, 3–6–62, Cl. 88—57.
Cox, Arthur, and W. J. Johnson, to Bell & Howell Co. Zoom lenses. 3,044,355, 7–17–62, Cl. 88—57.
Cox, Arthur, and W. J. Johnson, to Bell & Howell Co. Zoom lens. 3,044,356, 7–17–62, Cl. 88—57.
Cox, Arthur, and W. J. Johnson, to Bell & Howell Co. Zoom lens system. 3,059,535, 10–23–62, Cl. 88—57.
Cox, Arthur, and W. J. Johnson, to Bell & Howell Co. Zoom lens system. 3,059,536, 10–23–62, Cl. 88—57.
Cox, Arthur T., to Arthur Cox and Sons, Inc. Sliding door hanger. 3,020,582, 2–13–62, Cl. 16—105.
Cox, Austin G., to Alwac International, Inc. Vehicle construction. 3,055,314, 9–25–62, Cl. 105—150.
Cox, Bonnar: *See*—
Goldberg, Jacob, and Cox. Re. 25,263.
Goldberg, Jacob, and Cox. 3,017,103.
Cox, Bonnar, and J. Goldberg, to General Electric Co. Data-checking system. 3,040,984, 6–26–62, Cl. 235—153.
Cox, Charlton R.: *See*—
Brown, Gordon E., Cox, and Kennar. 3,058,954.
Cox, Clara W.: *See*—
Cox, Wilma W. and C. W. 3,046,559.
Cox, Clarence E.: *See*—
Nash, Richard L., and Cox. 3,059,836.
Cox, Clarence E., and R. L. Nash, to Chicago Pneumatic Tool Co. Unloader control for a rotary compressor. 3,059,832, 10–23–62, Cl. 230—31.
Cox, David E., and C. D. Williams; said Cox assor. to D. R. Neill. Emergency door lock. 3,024,053, 3–6–62, Cl. 292—21.
Cox, Donald J. Cotton stripper and separator. 3,035,312, 5–22–62, Cl. 19—202.
Cox, Edward G. Conveyance seat with swing-away backrest. 3,065,020, 11–20–62, Cl. 296—65.
Cox, Eugene F.: *See*—
Hostettler, Fritz, and Cox. 3,061,557.
Cox, Eugene F., and F. Hostettler, to Union Carbide Corp. Polymerization of cyclic esters. 3,021,309, 2–13–62, Cl. 260—78.3.
Cox, Eugene F., and F. Hostettler, to Union Carbide Corp. Polymerization of cyclic esters. 3,021,310, 2–13–62, Cl. 260—78.3.
Cox, Eugene F., and F. Hostettler, to Union Carbide Corp. Polymerization of cyclic esters. 3,021,311, 2–13–62, Cl. 260—78.3.
Cox, Eugene F., and F. Hostettler, to Union Carbide Corp. Polymerization of cyclic esters. 3,021,312, 2–13–62, Cl. 260—78.3.
Cox, Eugene F., and F. Hostettler, to Union Carbide Corp. Polymerization of cyclic esters. 3,021,313, 2–13–62, Cl. 260—78.3.
Cox, Eugene F., and F. Hostettler, to Union Carbide Corp. Polymerization of cyclic esters. 3,021,314, 2–13–62, Cl. 260—78.3.
Cox, Eugene F., and F. Hostettler, to Union Carbide Corp. Polymerization of cyclic esters. 3,021,315, 2–13–62, Cl. 260—78.3.
Cox, Eugene F., and F. Hostettler, to Union Carbide Corp. Polymerization of cyclic esters. 3,021,316, 2–13–62, Cl. 260—78.3.
Cox, Eugene F., and F. Hostettler, to Union Carbide Corp. Polymerization of cyclic esters. 3,021,317, 2–13–62, Cl. 260—78.3.
Cox, Eugene F., D. T. Manning, and H. A. Stansbury, Jr., to Union Carbide Corp. Diamino tricyclodecane. 3,069,468, 12–18–62, Cl. 260—563.
Cox, Floyd A.: *See*—
Orr, James P., and Cox. 3,068,822.
Cox, Frank T., Jr.: *See*—
Williams, William J., and Cox. 3,068,964.
Cox, Frank T., Jr., and C. F. Thornton, to Rockwell-Standard Corp. Wedge actuated brake assembly. 3,037,584, 6–5–62, Cl. 188—78.
Cox, Fred B.: *See*—
Lee, Richard C., Cox, and Connelly. 3,037,699.
Cox, Furman S.: *See*—
De Tyssen, Ernest O., Cox, Ott, Atkinson, and Garrison. 3,055,603.
Cox, George C.: *See*—
Cox, George C., and Vail. 3,039,943.
Cox, George C., and W. E. Vail. Electrodeposition of metals using pyrophosphates. 3,039,942, 6–19–62, Cl. 204—38.
Cox, George C., and W. E. Vail, to G. C. Cox. Methods for the electrodeposition of metals. 3,039,943, 6–19–62, Cl. 204—38.
Cox, George R., and J. C. Duffer. Combination heating and cooling shelf. 3,055,642, 9–25–62, Cl. 257—241.
Cox, Gordon J., to International Nickel Co., Inc. Nickel-containing inoculant. 3,033,676, 5–8–62, Cl. 75—130.
Cox, Herbert F., Jr., and D. N. Van Alstyne; said Van Alstyne assor, to said Cox. Power-operated drive for threaded fasteners. 3,034,547, 5–15–62, Cl. 144—32.
Cox, Herbert F., Jr., and D. N. Van Alstyne; said Van Alstyne assor. to said Cox. Power-operated driver for threaded fasteners. 3,034,548, 5–15–62, Cl. 144—32.
Cox, Irvin W., to Cutler-Hammer, Inc. Motor control system. 3,023,348, 2–27–62, Cl. 318—138.
Cox, Irvin W., to Cutler-Hammer, Inc. Electromagnetic device. 3,042,842, 7–3–62, Cl. 317—185.

Cox, Jesse J. : *See*—
LeBus, Franklin L., Sr., Cox, and Ware. 3,070,170.

Cox, John A., Jr., to Minneapolis-Honeywell Regulator Co. Mounting arrangement for an electrical device. 3,049,646, 8–11–62, Cl. 317—99.

Cox, John E. : *See*—
Horwitz, Henry L., Hasser, Cox, and Westhead. 3,037,-084.

Cox, John E., to International Telephone and Telegraph Corp. Operator telephone circuit. 3,033,940, 5–8–62, Cl. 179—51.

Cox, John E., to International Telephone and Telegraph Corp. Two-party line discriminating circuit for telephone systems. 3,046,343, 7–24–62, Cl. 179—8.5.

Cox, John J., Jr., to E. I. du Pont de Nemours and Co. Composite metal body for high temperature use. 3,055,088, 9–25–62, Cl. 29—194.

Cox, John W., to Diamond National Corp. Egg carton. 3,034,693, 5–15–62, Cl. 229—2.5.

Cox, Joseph H. : *See*—
Maisel, Daniel S., Ryan, and Cox. 3,045,048.

Cox, Norman L., and W. D. Nicoll, to Beaunit Mills, Inc. Crimped regenerated cellulose fibers. 3,019,509, 2–6–62, Cl. 28—82.

Cox, Pope D., 5% to F. A. Russell, 5% to P. D. Beter and T. Hill, and 10% to Young, Young & Young. Mechanism for removing soil samples from flat augers. 3,057,415, 10–9–62, Cl. 175—84.

Cox, Raymond J. : *See*—
Hough, George V., Cronin, and Cox. 3,035,772.

Cox, Richard R. Free-pouring jug. 3,066,819, 12–4–62, Cl. 215—1.

Cox, Robert B., to Aerojet-General Corp. Lithium base alloy 3,041,164, 6–26–62, Cl. 75—134.

Cox, Robert E. : *See*—
Oerman, Orey W., and Cox. 3,063,504.

Cox, Robert E., and J. F. Sullivan, to Deere & Co. Reversible disk plow. 3,045,765, 7–24–62, Cl. 172—212.

Cox, Robert J., to General Aniline & Film Corp. Tri-hydroxy-naphthanilides. 3,064,049, 11–13–62, Cl. 260—560.

Cox, Robert L., Jr., to Martin-Marietta Corp. Inflatable streamlined enclosure. 3,053,488, 9–11–62, Cl. 244—130.

Cox, Robert M., to Weston Hydraulics, Ltd. Valves. 3,067,-979, 12–11–62, Cl. 251—282.

Cox, Robert P., to Bjorksten Research Laboratories, Inc. Temperature and solvent resistance of elastomers. 3,029,-225, 4–10–62, Cl. 260—46.5.

Cox, Robert P., and D. H. Martin, to The M. W. Kellogg Co. Process for preparing boria promoted catalyst. 3,057,807, 10–9–62, Cl. 252—432.

Cox, Ronald L. Mixing of granular and/or powdery solid materials. 3,047,275, 7–31–62, Cl. 259—4.

Cox, Theodore C., to International Business Machines Corp. Parity checking apparatus for digital computer. 3,044,-702, 7–17–62, Cl. 235—153.

Cox, Thorald H. Seesaw rocker. 3,044,773, 7–17–62, Cl. 272—56.

Cox, William H., to Sun Oil Co. Magnetic recording apparatus. 3,061,832, 10–30–62, Cl. 346—74.

Cox, William H., and N. B. Blake, to Sun Oil Co. Correlator for the analysis of seismic records. 3,023,966, 3–6–62, Cl. 235—181.

Cox, William L. : *See*—
Chenicek, Joseph A., and Cox. 3,017,443.
Hatcher, Julian P., Atherton, and Cox. 3,043,783.

Cox, William M., Wind units. 3,044,820, 7–17–62, Cl. 295—7.

Cox, Wilma W. and C. W., to Mine Safety Appliances Co. Protective helmet lining. 3,046,559, 7–31–62, Cl. 2—3.

Coxey, James R., to Glen Gery Shale Brick Corp. Fluorspar briquettes. 3,027,227, 3–27–62, Cl. 23—88.

Coxey, James R., to Glen Gery Shale Brick Corp. Process for making fluorspar briquettes. 3,044,140, 7–17–62, Cl. 25—157.

Coxon, William G. : *See*—
Watts, Harold F. B., and Coxon. 3,064,775.

Coy, Calvin : *See*—
Keller, Ralph E., and Coy. 3,047,968.

Coy, William C. : *See*—
Burket, Robert E., Coy, and Peterman. 3,024,141.

Coyle, William J., to United-Carr Fastener Corp. Wire shock mount. 3,019,008, 1–30–62, Cl. 267—1.

Coyle, William J., to United-Carr Fastener Corp. Shock mount. 3,037,734, 6–5–62, Cl. 248—358.

Coyne, Donald M., to Continental Oil Co. Process for the preparation of alkylborines. 3,070,631, 12–25–62, Cl. 260—606.5.

Coyne, Donald M., P. A. Lobo, and B. J. Williams, to Continental Oil Co. Preparation of alcohols. 3,053,905, 9–11–62. Cl. 260—632.

Coyne, John B. : *See*—
Montgomery, Oscar R. 3,030,914.

Coyne, John W., ½ to J. P. Noonan, and ½ to D. Strater. Head for shellfish traps. 3,045,386, 7–24–62, Cl. 43—100.

Coyner, Eugene C., to E. I. du Pont de Nemours and Co. Aerosol hair-treating composition. 3,026,250, 3–20–62, Cl. 167—87.1.

Coyner, Eugene C., K. T. Dishart, and C. S. Rondestvedt, Jr., to E. I. du Pont de Nemours and Co. Process for preparing polyfluoroalkyl halides. 3,038,947, 6–12–62, Cl. 260—653.8.

Cozart, Robert T. Vending machine. 3,018,869, 1–30–62, Cl. 194—10.

Cozart, Robert T. Match dispenser system. 3,036,731, 5–29–62, Cl. 221—94.

Cozzo, Giuseppe, and R. D. Palmer, to Baldwin-Lima-Hamilton Corp. Reversing drive and control. 3,019,669, 2–6–62, Cl. 74—661.

Cozzoli, Michael, to Fairchild Stratos Corp. Cargo-handling system. 3,059,592, 10–23–62, Cl. 105—366.

Cozzoli, Michael. Helicopter cargo hook. 3,061,355, 10–30–62, Cl. 294—83.

Crabbe, Pierre : *See*—
Zderic, John A., and Crabbe. 3,051,733.

Crabbe, Pierre, to Syntex Corp. 16β-(amino) carbonyl androstanes and process for the preparation thereof. 3,066,-136, 11–27–62, Cl. 260—239.5.

Crabbe, Rene : *See*—
Deprez, Charles, Bulte, and Crabbe. 3,052,618.

Crabiel, Charles A. : *See*—
Lewis, James T., Jr., Crabiel, and Cowden. 3,020,678.

Crabtree, John O. : *See*—
Crosskey, Albert A., and Crabtree. 3,022,996.

Crabtree, Leonard F., to Automatic Electric Laboratories Inc. Signalling system. 3,070,785, 12–25–62, Cl. 340—332.

Crabtree, Lloyd O., to Sylvania Electric Products Inc. Camera focusing mechanism. 3,027,820, 4–3–62, Cl. 95—44.

Craddock, Reginald V., to Sperry Rand Corp. Take-off monitoring apparatus for aircraft. 3,034,096, 5–8–62, Cl. 340—27.

Craddock, Ronald G., and M. M. King, to Shwayder Bros., Inc. Table and leg locking structure. 3,037,831, 6–5–62, Cl. 311—99.

Craddock, Stanley F. : *See*—
Oliver, Derek J., and Craddock. 3,056,689.

Cradle, Walter C. : *See*—
Beaver, Fred R., and Cradle. 3,066,886.

Craft, John B. Collapsible boat. 3,056,976, 10–9–62, Cl. 9—2.

Crafts, Cecil A., to Robertshaw-Fulton Controls Co. Receiver for phase shift keyed signals. 3,037,079, 5–29–62, Cl. 178—88.

Crafts, Curtis S., to Miehle-Goss-Dexter, Inc. High speed folding apparatus with separated signature delivery. 3,032,335, 5–1–62, Cl. 270—21.

Craftsmen's Guild : *See*—
Fuller, Richard P. 3,064,376.

Cragoe, Edward J., Jr. : *See*—
Schultz, Everett M., and Cragoe. 3,042,714.
Sprague, James M., and Cragoe. 3,027,381.
Sprague, James M., and Cragoe. 3,064,051.

Craig, A. F., & Co., Ltd. : *See*—
Craig, Archibald F., and McLennan. 3,070,133.

Craig, Archibald F., and J. M. McLennan, to A. F. Craig & Co., Ltd. Brake and clutch operating means on looms. 3,070,133, 12–25–62, Cl. 139—336.

Craig, B. M. : *See*—
Gilreath, Lafayette E. 3,048,998.

Craig, Burnie M., to Henry Keck Associates. Cord holder attachment for electrical outlets. 3,042,739, 7–3–62, Cl. 174—66.

Craig, Carl E. Telescoping drill guide or boring jig. 3,062,-076, 11–6–62, Cl. 77—62.

Craig, Clinton W. Drill bits. 3,042,126, 7–3–62, Cl. 175—385.

Craig, David, and C. D. Logan, to The Ontario Paper Co. Method of producing vanillin and other useful products from lignosulfonic acid compounds. 3,054,659, 9–18–62, Cl. 23—196.

Craig, David, and C. D. Logan, to The Ontario Paper Co. Ltd. Method of producing vanillin and other useful products. 3,054,825, 9–18–62, Cl. 260—600.

Craig, Frank S. : *See*—
Howard, James Y., and Craig. 3,060,354.

Craig, Frederick E. Polyphase fluorescent lighting system. 3,027,490, 3–27–62, Cl. 315—144.

Craig, Glenn D., and F. Gething, to Cleaver-Brooks Co. Fuel burner air system. 3,033,269, 5–8–62, Cl. 158—1.5.

Craig, George A., to Machinery Service, Inc. Apparatus for simultaneously changing the spacing of a series of closure members for containers. 3,027,589, 4–3–62, Cl. 15—304.

Craig, Harry L., O. H. Alderks, A. H. Corwin, S. H. Dieke, and C. L. Karel, to United States of America, Army. Preparation of toxic ricin. 3,060,165, 10–23–62, Cl. 260—123.5.

Craig, James R., to Profexray, Inc. X-ray tube current metering circuit. 3,061,729, 10–30–62, Cl. 250—95.

Craig, James R., and G. W. Otto, Jr., to Profexray, Inc. X-ray apparatus. 3,043,953, 7–10–62, Cl. 250—57.

Craig, Kenneth M. Baby bottle holder. 3,028,133, 4–3–62, Cl. 248—106.

Craig, Loren J. : *See*—
Bundschuh, John J., Craig, and Hochreiter. 3,016,811.

Craig, Paul N. : *See*—
Van Voy, Lawrence R., and Craig. 3,047,704.

Craig, Paul N., to Smith Kline & French Laboratories. Substituted phenoselenazine compounds. 3,043,839, 7–10–62, Cl. 260—241.

Craig, Paul N., to Smith Kline & French Laboratories. Substituted acridans. 3,043,842, 7–10–62, Cl. 260—268.

Craig, Paul N., to Smith Kline & French Laboratories. Dimethylaminophenothiazine derivatives. 3,047,572, 7–31–62. Cl. 260—243.

Craig, Paul N., to Smith Kline & French Laboratories. Trifluoromethyl substituted dibenzazepines, dihydrodibenzazepines, N-alkylated derivatives thereof and process for preparation of dibenzazepines. 3,068,222, 12–11–62, Cl. 260—239.
Craig Pharmaceutical Co., Inc.: *See*—
De Vaulchier, Dorothy. 3,046,196.
Craig, Robert G., to Air Products and Chemicals, Inc. Air heating method. 3,066,926, 12–4–62, Cl. 263—19.
Craig, Ronald S.: *See*—
Hartley, Wilfred, Craig, and Sapiro. 3,068,065.
Craig Systems, Inc.: *See*—
Pierrat, Michel A. 3,033,529.
Craig, Thomas A., to Union Carbide Corp. Metal arc welding. 3,051,823, 8–28–62, Cl. 219—74.
Craig, Willis G., to The Lubrizol Corp. Process of preparing film-forming compositions. 3,055,865, 9–25–62, Cl. 260—47.
Craigie, David: *See*—
Keenan, John G., and Craigie. 3,057,542.
Craiglow, Robert L., to Collins Radio Co. Crystal switching system. 3,020,421, 2–6–62, Cl. 307—88.5.
Crain, Albert: *See*—
Crain, John P. and A. 3,048,233.
Crain, Chester R., to General Railway Signal Co. Highway crossing signal control system. 3,025,393, 3–13–62, Cl. 246—130.
Crain, Harriet R. Disposable place mats. 3,050,185, 8–21–62, Cl. 206—56.
Crain, John P. and A. Marsh buggy. 3,048,233, 8–7–62, Cl. 180—49.
Craine, Richard W.: *See*—
Parker, Ernest G., Karpeles, and Craine. 3,048,842.
Cram, Kenneth H., and J. W. Wetzel, to General Electric Co. Process for making void-free insulated conductors. 3,033,727, 5–8–62, Cl. 156—56.
Cramer, Bruce G., to Philco Corp. Monostable multivibrator controlling a threshold circuit. 3,040,189, 6–19–62, Cl. 307—88.5.
Cramer, Bruce G., to United States of America, Air Force. Bistable multivibrator with half gate. 3,059,128, 10–16–62, Cl. 307—88.5.
Cramer, Francis B., to E. I. du Pont de Nemours and Co. Preparation of polyethylene terephthalate. 3,024,220, 3–6–62, Cl. 260—75.
Cramer, Francis B., to E. I. du Pont de Nemours and Co. Process for the preparation of polyesters from dicarboxylic acids and bis(hydroxy-alkyl) esters. 3,070,575, 12–25–62, Cl. 260—47.
Cramer, Frank B., to North American Aviation, Inc. Process for dispersing solids in polymeric propellent fuel binders. 3,022,149, 2–20–62, Cl. 149—19.
Cramer, Friedrich D., and M. G. Winter. Process for preparing partial esters of pyrophosphoric acid. 3,062,858, 11–6–62, Cl. 260—461.
Cramer, Guenter: *See*—
Schmitz, Adolf, and Cramer. 3,039,917.
Cramer, Howard: *See*—
Chittenden, Windsor N., and Sima. 3,037,782.
Cramer, Leonard V. Side-mounted adjustable ditcher. 3,024,546, 3–13–62, Cl. 37—86.
Cramer, Richard D., to E. I. du Pont de Nemours and Co. Linear inorganic polymers and process of preparing the same. 3,017,240, 1–16–62, Cl. 23—14.
Cramer, Robert H.: *See*—
Anderson, Conroy D., and Cramer. 3,041,269.
Anderson, Conroy D., Cramer, and Houser. 3,041,271.
Cramer, Robert H., and E. J. Rosinski, to Engelhard Industries, Inc. Production of alumina and catalyst containing same. 3,042,628, 7–3–62, Cl. 252—465.
Cramer, Robert, Jr., to Nordberg Mfg. Co. Engine foundation and mounting assembly. 3,066,449, 12–4–62, Cl. 50—185.
Cramer, Thomas F., to Holley Carburetor Co. Governor valve. 3,045,687, 7–24–62, Cl. 137—56.
Cramer, Thomas F., and P. S. Shoemaker, to Holley Carburetor Co. Hydraulic engine speed governor. 3,039,480, 6–19–62, Cl. 137—34.
Crampton, Carl T., to Du-Al Mfg Co. Self-contained power driven auger. 3,044,562, 7–17–62, Cl. 175—201.
Crampton, Carl T., to Du-Al Mfg. Co. Power actuated grapple fork loader. 3,055,521, 9–25–62, Cl. 214—147.
Crampton, Peter, and E. Crowe, to Ford Motor Co. Automatic trailer hitches. Re. 25,168, 5–15–62, Cl. 280—479.
Cran, William B. G., to Thomas Broadbent & Sons Ltd. Stacking of flat articles. 3,021,966, 2–20–62, Cl. 214—6.
Cranch, George E.: *See*—
Domizi, Dario, and Cranch. 3,056,057.
Crandall, Charles B., and R. W. Andres, to Barber-Colman Co. Bobbin sorter. 3,049,231, 8–14–62, Cl. 209—74.
Crandall, Edward C., and H. E. Netkin. Electric control system. 3,070,732, 12–25–62, Cl. 318—55.
Crandall, Julian T., to Ashaway Line & Twine Mfg. Co. Manufacture of tennis strings. 3,050,431, 8–21–62, Cl. 156—172.
Crandall, Morris. Control system for pumping engines. 3,070,109, 12–25–62, Cl. 137—68.
Crandall, Roger: *See*—
Bain, Robert H. 3,027,583.
Crandell, Paul A., to National Co., Inc. Paramagnetic wavemeter. 3,056,080, 9–25–62, Cl. 324—.5.
Crandell, Paul A. to National Co., Inc. Harmonic generator. 3,060,365, 10–23–62, Cl. 321—69.
Crandell, Richard M., and J. H. Hoffman, to Lockheed Aircraft Corp. Pressure controller. 3,045,470, 7–24–62, Cl. 73—4.
Crandon, Harry D., to American Optical Co. Improvements in projection screens. 3,016,794, 1–16–62, Cl. 88—28.90.
Crandon, Harry D., to American Optical Co. Light polarizing articles and method of making same. 3,051,054, 8–28–62, Cl. 88—65.
Crane, Carlton L., to Eastman Kodak Co. Preparation of stable cellulose triesters. 3,047,561, 7–31–62, Cl. 260—227.
Crane, Carlton L., to Eastman Kodak Co. Ethyl cellulose phthalate trimellitate and its preparation. 3,057,853, 10–9–62, Cl. 260—226.
Crane, Carlton L. Method of obtaining cellulose triesters from their esterification solutions in comminuted form. 3,057,854, 10–9–62, Cl. 260—227.
Crane Carrier Corp.: *See*—
Russell, Louis R., and Gagnon. 3,033,001.
Crane Co.: *See*—
Bredtschneider, Kurt B. 3,039,484.
Bredtschneider, Kurt B. 3,042,359.
Bredtschneider, Kurt B. 3,049,794.
Bredtschneider, Kurt B. 3,052,473.
Bredtschneider, Kurt B. 3,067,763.
Cantalupo, Francis J., De Craene, and Doelger. 3,034,371.
Carr, Edward W., and Setka. 3,027,912.
Carrie, William D. 3,022,790.
Crits, George J. 3,062,739.
Drosten, Fred W., and Kaczmarek. 3,062,641.
Emeny, George B., and Kinnavy. 3,038,413.
Fennema, Richard, and Anderson. 3,065,951.
Fennema, Richard, and McInerney. 3,057,378.
Hansen, George E. 3,032,310.
Hansen, George E., and Korzenowski. 3,017,158.
Hooper, Louis K., and Watkins. 3,033,023.
Kanter, Jerome J., Lahr, and Havel. 3,066,392.
Magos, John P., Bredtschneider, Cotterman, Black, and Rodda. 3,053,554.
Magos, John P., and Gaglio. 3,032,778.
McInerney, John A. 3,040,773.
McInerney, John A., and Bretschneider. 3,035,598.
Rodda, Thomas A. 3,033,046.
Styan, Richard T., and Grube. 3,063,307.
Turek, James R., and Kolena. 3,038,173.
Turek, James R., Petrie, and Attridge. 3,022,602.
Crane, Edward V., to E. W. Bliss Co. Fluid torque limiter. 3,042,166, 7–3–62, Cl. 192—85.
Crane, Grant, to The Firestone Tire & Rubber Co. Method of producing stabilized oil extended butadiene-styrene rubbery copolymer. 3,019,207, 1–30–62, Cl. 260—33.6.
Crane, George B.: *See*—
Ball, Lloyd D., Cowart, Crane, and Knowlton. 3,056,128.
Crane, Harold S.: *See*—
Reifers, Richard F., and Crane. 3,016,176.
Crane, Hewitt D., to Burroughs Corp. "And" function circuit. 3,030,519, 4–17–62, Cl. 307—88.
Crane, Hewitt D., to Burroughs Corp. Logical "or" circuit. 3,030,520, 4–17–62, Cl. 307—88.
Crane, Hewitt D., to Radio Corp. of America. Magnetic switching systems for magnetic recording. 3,042,923, 7–3–62, Cl. 346—74.
Crane, Hewitt D., to Burroughs Corp. Magnetic core circuits providing fractional turns. 3,049,696, 8–14–62, Cl. 340—174.
Crane, Hewitt D., to Packard-Bell Electronics Corp. Electrical amplification system. 3,054,066, 9–11–62, Cl. 330—14.
Crane, Hewitt D., to AMP Inc. Logical sequence detection system. 3,056,116, 9–25–62, Cl. 340—174.
Crane, Hewitt D., D. R. Bennion, and F. C. Heinzmann, to Burroughs Corp. Multi-aperture core element design for magnetic circuits. Re. 25,148, 4–3–62, Cl. 340—174.
Crane, Hewitt D., and D. R. Bennion, to Burroughs Corp. Core device for performing logical functions. 3,026,421, 3–20–62, Cl. 307—88.
Crane, Hewitt D., D. R. Bennion, and F. C. Heinzmann, to Burroughs Corp. Multiple output magnetic core circuit. 3,037,198, 5–29–62, Cl. 340—174.
Crane, James E.: *See*—
Leblanc, Conrad L., and Crane. 3,041,764.
Crane Packing Co.: *See*—
Campbell, Robert S., and Schulz. 3,028,711.
Domeny, Steven. 3,050,853.
Jones, David W. 3,031,806.
Main, Merrill M. 3,067,514.
Crane Packing Ltd.: *See*—
Wilkinson, Samuel C. W. 3,031,197.
Wilkinson, Samuel C. W. 3,068,014.
Crane, Robert A., to The Dow Chemical Co. Low contact pressure switch. 3,041,421, 6–26–62, Cl. 200—61.18.
Crane, Robert A., to The Dow Chemical Co. Card static tester. 3,041,531, 6–26–62, Cl. 324—32.
Crane, Robert A., and P. C. Wharff, Jr., to The Dow Chemical Co. Flexure fatigue tester. 3,065,632, 11–27–62, Cl. 73—91.
Crane, Robert A., and P. C. Wharff, Jr., to The Dow Chemical Co. Tensile tester. 3,067,607, 12–11–62, Cl. 73—89.
Crane, Robert L., C. E. Cleland, and C. H. Whitmore, to Continental Machines, Inc. Vise structure for machine tools. 3,034,779, 5–15–62, Cl. 269—142.

Crane, Samuel P. Insulated fringed branch for artificial trees and method. 3,056,223, 10–2–62, Cl. 41—15.
Crane, Samuel P., and S. D. Kent, to Alpha Research Corp. Ventilating spacer. 3,022,068, 2–20–62, Cl. 267—110.
Crane, Samuel P., and S. D. Kent. Ventilated spacer. 3,050,749, 8–28–62, Cl. 5—347.
Crane, Thomas A., and P. R. Adams. Method for making fertilizer. 3,041,157, 6–26–62, Cl. 71—9.
Crane, Walter K. Luggage rack. 3,049,273, 8–14–62, Cl. 224—42.1.
Crane, Walton B. : *See*—
Long, Harry G., and Crane. 3,040,968.
Crane, Walton B. Can band. 3,023,892, 3–6–62, Cl. 206—65.
Crane, Walton B., to Allied Plastics Co. Article packaging sleeve. 3,040,966, 6–26–62, Cl. 229—53.
Crane, Walton B., to Allied Plastics Co. Produce basket filling device. 3,054,238, 9–18–62, Cl. 53—255.
Crane, Walton B., to Allied Plastics Co. Paperboard shipping crate and interlocked crate unit. 3,055,572, 9–25–62, Cl. 229—27.
Crane, Walton B., to Allied Plastics Co. Produce packaging means. 3,067,039, 12–4–62, Cl. 99—171.
Crane, Walton B., to Allied Plastics Co. Means for unitizing produce containers for shipment. 3,069,007, 12–18–62, Cl. 229—65.
Crane, Walton B., to Allied Plastics Co. Produce wrapper with fastening slit. 3,069,067, 12–18–62, Cl. 229—87.
Crane, Wilbur G., to Inland Steel Co. Method of inhibiting corrosion. 3,052,575, 9–4–62, Cl. 148—6.14.
Crane, William B., Jr., ½ to The Nevins Co. Combination three-dimensional article and display package therefor, and method of packaging said article. 3,018,879, 1–30–62, Cl. 206—45.31.
Crane, William B., Jr., ½ to The Nevins Co. Combination three-dimensional article and closed display package therefor. 3,064,402, 11–20–62, Cl. 53—30.
Cranes & Shovels Proprietary Ltd. : *See*—
Hardman, Laurie W. 3,055,520.
Cranford, William B. : *See*—
Read, Douglas E., Cranford, Major, and Smith. 3,057,187.
Crang, Terence F., to Kinematics Ltd. Rotary cocks and valves. 3,048,191, 8–7–62, Cl. 137—625.32.
Crannell, Richard W., to Lehigh Inc. Highway railing. 3,028,148, 4–3–62, Cl. 256—13.1.
Cranston, Lawrence, to United States Rubber Co. Expansion joint. 3,051,512, 8–28–62, Cl. 285—114.
Cranston Print Works Co. : *See*—
Owren, Erling. 3,047,354.
Cras, Hubertus F. M., to Koninklijke Vereenigde Tabaksindustrieen Mignot & de Block, N.V. Machines for the manufacture of cigar bunches and provided with a controllable dosing device for the filler tobacco. 3,055,373, 9–25–62, Cl. 131—21.
Crater, Theodore V., to Bell Telephone Laboratories, Inc. Error detection in pseudo-ternary pulse trains. 3,061,814, 10–30–62, Cl. 340—146.1.
Craue, Robert R. : *See*—
Granet, Charles, Roland, and Craue. 3,017,197.
Craven, Ernest C., and M. W. Fewlass, to The Distillers Co. Ltd. Purification of isophorone. 3,041,378, 6–26–62, Cl. 260—586.
Craven, Herman R., to The Vendo Co. Manually operated can punching device. 3,066,410, 12–4–62, Cl. 30—6.1.
Craven, Wilbur J., and H. Mueck, to Capewell Mfg. Co. Apparatus for producing saw blades. 3,023,645, 3–6–62, Cl. 76—25.
Craven, William J., S. J. Metro, and A. H. Matuszak, to Esso Research and Engineering Co. Lubricating oil compositions containing esters of polycarboxylic aromatic acids. 3,019,188, 1–30–62, Cl. 252—57.
Craven, William J., and H. K. Wiese, to Esso Research and Engineering Co. Cyclopentadienyl carbonyls. 3,026,344, 3–20–62, Cl. 260—439.
Craver, Augustus E., and W. H. Lamason, to American Viscose Corp. Method and apparatus for producing films. 3,044,115, 7–17–62, Cl. 18—15.
Craveri, Renato, O. L. Shotwell, and T. G. Pridham, to United States of America, Agriculture. Azacolutin extraction from S. cinnamomeus var. azacoluta. 3,017,327, 1–16–62, Cl. 167—65.
Cravotta, Samuel A. Slip-resistant tread and method of manufacture thereof. 3,034,943, 5–15–62, Cl. 154—52.
Crawford, Arthur R., to International Research & Development Corp. Engine analyzer and balancer. 3,023,613, 3–6–62, Cl. 73—116.
Crawford, Arthur R. Toy. 3,030,733, 4–24–62, Cl. 46—243.
Crawford, Arthur R., W. R. Rushin, R. E. Porter, and P. A. Ryan, to International Research & Development Corp. Engine analyzer. 3,030,813, 4–24–62, Cl. 73—466.
Crawford, Charles A. Paint applicator. 3,036,327, 5–29–62, Cl. 15—522.
Crawford, Cullen B. Tube coupling. 3,069,188, 12–18–62, Cl. 285—342.
Crawford, Duncan C., to Texas Instruments Inc. Transistor D.C. to A.C. converter. 3,056,094, 9–25–62, Cl. 331—113.
Crawford, Earl A., to Bird & Son, Inc. Doctor blade assembly. 3,026,796, 3–27–62, Cl. 101—157.
Crawford Fitting Co. : *See*—
Cator, Edward J. 3,032,359.
Crawford, Francis W. : *See*—
Frey, Frederick E., Crawford, and Marx. 3,034,580.
Crawford, Francis W., to Phillips Petroleum Co. Multiple zone production by in situ combustion. 3,050,116, 8–21–62, Cl. 166—10.
Crawford, H. E., Co., Inc., The : *See*—
Crawford, Herman E. 3,021,699.
Crawford, Herman E. 3,041,860.
Crawford, Herman E. 3,054,279.
Crawford, Herman E. 3,054,280.
Crawford, Herman E., to The H. E. Crawford Co., Inc. Clutch operating means for knitting machines. 3,021,699, 2–20–62, Cl. 66—56.
Crawford, Herman E., to The H. E. Crawford Co. Means for and method of operating the sinkers of knitting machines. 3,041,860, 7–3–62, Cl. 66—108.
Crawford, Herman E., to The H. E. Crawford Co., Inc. Heel structure for hosiery. 3,054,279, 9–18–62, Cl. 66—48.
Crawford, Herman E., to The H. E. Crawford Co., Inc. Fabric tensioning means for circular knitting machine. 3,054,280, 9–18–62, Cl. 66—149.
Crawford, Irvin H., to Eastman Kodak Co. Photographically sensitive lithographic printing plate. 3,062,648, 11–6–62, Cl. 96—76.
Crawford, John M., to Continental Oil Co. Floating support for seismic transducers. 3,019,412, 1–30–62, Cl. 340—7.
Crawford, Robert T., and J. B. Stevens, to Eastman Kodak Co. Method for the manufacture of filters composed of cellulose acetate. 3,017,309, 1–16–62, Cl. 156—161.
Crawford, Robert V., to Bell Telephone Laboratories, Inc. Adjustable motor speed control. 3,065,397, 11–20–62, Cl. 318—231
Crawford & Russell Inc. : *See*—
Beal, Carl L. 3,060,501.
Crawford, Thomas G., to Westinghouse Electric Corp. Composite laminated tubular member. 3,054,428, 9–18–62, Cl. 138—141.
Crawford, Wallace. Golf cart trailer. 3,025,985, 3–20–62, Cl. 214—505.
Crawley, George E., Jr. : *See*—
Pilloton, Roger L., and Crawley. 3,062,613.
Crawshaw, Geoffrey H. : *See*—
Evans, John G., and Crawshaw. 3,047,535.
Cray, Seymour R. : *See*—
Moe, Walter J., Smith, Miller, and Cray. 3,039,688.
Thornton, James E., and Cray. 3,035,182.
Cray, Seymour R., to Sperry Rand Corp. Magnetic core circuits. 3,041,592, 6–26–62, Cl. 340—174.
Cray, Seymour R., to Sperry Rand Corp. Pulse former. 3,041,583, 6–26–62, Cl. 340—174.
Cray, Seymour R., and A. P. Hendrickson, to Sperry Rand Corp. Magnetic core circuits. 3,041,466, 6–26–62, Cl. 307—88.
Creager, Paul, Jr. : *See*—
Pereny, Louis, Gibbs, and Creager. 3,060,932.
Creagh, Joseph P. : *See*—
Myerly, Richard C., and Creagh. 3,069,331.
Creamer, Edgar M., Jr., and A. Hopengarten, to Philco Corp. Television receivers. 3,041,466, 6–26–62, Cl. 315—27.
Creamery Package Mfg. Co. : *See*—
Moulthrop, Maurice J., and Schmid. 3,057,486.
Wakeman, Alden H. 3,015,218.
Wakeman, Alden H. 3,037,748.
Wakeman, Alden H. 3,043,327.
Crease, Pierre L., and E. E. Sutton, to Dominion Electric Corp. Electrically heated cooking device. 3,065,326, 11–20–62, Cl. 219—35.
Creavey, William G. Pressure actuated seal. 3,033,582, 5–8–62, Cl. 277—180.
Creber, Ronald W. Flexible coupling means for stanchions. 3,036,848, 5–29–62, Cl. 287—105.
Crede & Co. G.m.b.H., Gebruder : *See*—
Kindler, Adolf, and Eckhardt. 3,050,315.
Crecelius, Samuel B., to Economics Laboratory, Inc. Process for producing surface-active agents from sucrose. 3,018,281, 1–23–62, Cl. 260—209.
Crecelius, Samuel B., to Economics Laboratory, Inc. Production of lauryl fatty acid esters of sucrose addition compounds. 3,018,282, 1–23–62, Cl. 260—234.
Crecelius, Samuel B., to Economics Laboratory, Inc. Nonionic surface active agent. 3,031,510, 4–24–62, Cl. 260—611.
Creed & Co. Ltd. : *See*—
Hoer, Kenneth G. 3,044,768.
Hoer, Kenneth G. 3,060,262.
Mason, Frederick P. 3,045,125.
Mason, Frederick P., and Stemp. 3,015,690.
Turner, Frederick J. L., and Mason. 3,044,675.
Creed, James R. Apparatus for and method of producing heavy oil. 3,016,833, 1–16–62, Cl. 103—1.
Creed, Sherman H. : *See*—
Drake, Robert W., and Creed. 3,035,620.
Creed, Sherman H., and G. R. Anderson, to FMC Corp. Intermittent driving mechanism. 3,024,669, 3–13–62, Cl. 74—821.
Creed, Sherman H., and S. Puccinelli, to FMC Corp. Cutter for coring fruit. 3,030,991, 4–24–62, Cl. 146—52.
Creedle, Fred W., to American Brake Shoe Co. Trackwork machines. 3,040,677, 6–26–62, Cl. 105—31.
Creek, Joseph P. : *See*—
Adams, Cecil E., and Creek. 3,044,485.

Crehan, William J., W. F. Klouse, and P. Talmey, to General American Transportation Corp. Methods of making coated metal bodies and composite metal sheets. 3,065,535, 11–27–62, Cl. 29—484.
Creighton, Albert M., Jr., to Chemical Development Corp. Room temperature curing molding and forming composition. 3,018,260, 1–23–62, Cl. 260—18.
Creighton, John H.: *See*—
Rasmussen, Clarence T., and Creighton. 3,038,266.
Rasmussen, Clarence T., and Creighton. 3,048,933.
Creighton, John H., to Dore & Co. Carrying type scraper. 3,028,694, 4–10–62, Cl. 37—129.
Creighton, John H., to The Bendix Corp. High pressure vessel. 3,044,654, 7–17–62, Cl. 220—3.
Cremer, William C. Lapped seam trimmer. 3,054,366, 9–18–62, Cl. 112—123.
Crenshaw, Jack W.: *See*—
Brown, Clinton E., and Crenshaw. 3,039,017.
Crepinsek, Alois, to International Lock Corp. Safety lock. 3,066,523, 12–4–62, Cl. 70—150.
Cresap, Wesley L., to Bell Helicopter Corp. Helicopter rotor system. 3,026,942, 3–27–62, Cl. 170—160.25.
Crescent Creamery Co.: *See*—
Cammack, Malcolm E. 3,043,070.
Crescent Metal Products, Inc.: *See*—
D'Anka, Blaise. 3,059,780.
Hayba, Franklin P., and Hotaling. 3,021,795.
Crescenzi, Armand A.: *See*—
Claff, Clarence L., Crescenzi, and Hofstra. 3,060,934.
Crescenzo, Francis: *See*—
Cross, Cedric B., and Crescenzo. 3,053,373.
Newell, Kenneth F., Crescenzo, Chase, and Mehlhorn. 3,061,989.
Newell, Kenneth F., Crescenzo, Chase, and Mehlhorn. 3,067,555.
Cressey, John R., N. D. Peterson, A. Nazareth, Jr., and R. P. lawler, to The Foxboro Co. Electrically operated apparatus for remote measuring. 3,051,932, 8–28–62, Cl. 340—187.
Cressey, John R., N. D. Peterson, A. Nazareth, Jr., and R. P. Lawler, to The Foxboro Co. Electrically operated apparatus for remote measuring. 3,051,933, 8–28–62, Cl. 340—187.
Cressi, Antonio: *See*—
Ferraro, Luigi, and Cressi. 3,055,025.
Cressi, Egidio: *See*—
Ferraro, Luigi, and Cressi. 3,055,025.
Cressman, Earl W., A. P. Jurnak, and R. L. Mueller, to Western Electric Co., Inc. Apparatus for stripping molded articles from core pins. 3,050,836, 8–28–62, Cl. 29—208.
Cressman, Robert C.: *See*—
Reihman, Earl F., and Cressman. 3,040,151.
Cresswell, Arthur, W. R. Kocay, and I. H. Updegraff, to American Cyanamid Co. Molded articles and method of making the same. 3,023,134, 2–27–62, Cl. 154—43.
Cresswell, Harold W. Plastic greenhouses. 3,028,872, 4–10–62, Cl. 135—14.
Cresswell, Robert A., and C. A. Burden, to The British Oxygen Co. Ltd. Apparatus and process for spraying molten metal. 3,064,114, 11–13–62, Cl. 219—74.
Crest Tool and Mfg. Co., Inc.: *See*—
Lieberman, Julius, and Rifkin. 3,056,987.
Creswell, Thomas B. Machine for spreading road surfacing material. 3,029,714, 4–17–62, Cl. 94—44.
Creter, Balthasar. Mulling cabinet. 3,046,580, 7–31–62, Cl. 12—59.7.
Cretin-Maitenaz, Bernard, to Societe des Lunetiers Cottet Poichet, Tagnon & Cie. Honing machine. 3,021,647, 2–20–62, Cl. 51—55.
Cretin-Maitenaz, Bernard, to Societe des Lunetiers Cottet Poichet, Tagnon & Cie. Machine for three-dimensional copying. 3,041,789, 7–3–62, Cl. 51—101.
Cretney, Robert W.: *See*—
Kosewicz, John S., Gill, and Cretney. 3,039,851.
Creusere, Melville C., to United States of America, Navy. Square summing multiplier. 3,065,911, 11–27–62, Cl. 235—194.
Creutz, Edward C., to United States of America, Atomic Energy Commission. Jacketed body. 3,037,924, 6–5–62, Cl. 204—193.2.
Creuzburg, Richard, to Kurt Korber & Co., K.G. Method and apparatus for affixing the mouthpiece or tip on cigarettes. 3,016,905, 1–16–62, Cl. 131—94.
Crever, Frederick E., to United States of America, Atomic Energy Commission. Control system for neutronic reactors. 3,033,774, 5–8–62, Cl. 204—193.2.
Crevling, Thomas V.: *See*—
Mader, Paul M., Nelson, and Crevling. 3,016,306.
Crevoi, Edward, to Marshallan Mfg. Co. Folding table. 3,031,243, 4–24–62, Cl. 311—83.
Crevot, Andre: *See*—
Morel, Paul, and Crevot. 3,066,401.
Crew, Theodore F. Amusement and educational toy. 3,040,915, 6–26–62, Cl. 214—38.
Crews, Allen B., and D. Muskat, to Electronic Training Aids, Inc. Training panel for electronic technicians. 3,043,022, 7–10–62, Cl. 35—19.
Crew's Die Casting Corp.: *See*—
Tisdall, Garnet H. 3,023,992.
Crews, Patricia E. M. Device to facilitate the drying of woolen articles after laundering. 3,040,903, 6–26–62, Cl. 211—119.
Criche, William J., to G. Q. McNamara, d.b.a. Hard Chek Co. Metal hardness measuring instrument. 3,038,330, 6–12–62, Cl. 73—79.
Crichton, Neil T., to Harbison-Walker Refractories Co. Furnace roof block with sheet metal hanger. 3,029,755, 4–17–62, Cl. 110—99.
Cri-Dan: *See*—
Renoux, Pierre E. 3,041,640.
Criffield, Melvin E., and F. W. Weissborn, Jr., to General Electric Co. Control system for movable members. 3,024,771, 3–13–62, Cl. 121—40.
Criger, Glenn M., to Aluminum Research Corp. Coil handling device. 3,049,314, 8–14–62, Cl. 242—79.
Crim, Almer D., to United States of America, Navy. Controls for vehicles utilizing the ground effect principle. 3,050,146, 8–21–62, Cl. 180—7.
Crim, Hugh S.: *See*—
Abild, Robert N., Broders, Crim, and Gallant. 3,050,936.
Crim, Hugh S., to United Aircraft Corp. Propellant mixture control. 3,069,849, 12–25–62, Cl. 60—35.6.
Crimmins, David J.: *See*—
Logan, Maurus C., and Crimmins. 3,019,410.
Thomas, Edward D., Crimmins, and Logan. 3,059,211.
Crimmins, David J., to The Thomas & Betts Co. Terminal connector. 3,065,444, 11–20–62, Cl. 339—176.
Crimmins, David J., to The Thomas & Betts Co. Socket connector for flexible tape conductor cable. 3,065,445, 11–20–62, Cl. 339—198.
Crimmins, James W., to Sperry Rand Corp. Variable bandwidth detector. 3,038,123, 6–5–62, Cl. 328—138.
Criner, Charles B., to Aluminum Co. of America. Aluminum base alloy. 3,031,299, 4–24–62, Cl. 75—147.
Cripe, Maxwell L., to The Bendix Corp. Simplified hydraulic actuating mechanism. 3,031,851, 5–1–62, Cl. 60—54.6.
Cripe, Maxwell L., to The Bendix Corp. Inexpensive master cylinder. 3,064,433, 11–20–62, Cl. 60—54.6.
Crisafi, Robert C. Disposable device for sterilizing solutions. 3,044,500, 7–17–62, Cl. 141—85.
Crisafulli, Peter G. Object ejection device. 3,036,734, 5–29–62, Cl. 221—238.
Criscuolo, James M. Sewer cleaning device. 3,048,870, 8–14–62, Cl. 15—104.3.
Crist, George E.: *See*—
Schweitzer, William H., and Crist. 3,059,664.
Criswell, Charles J. Foot guard. 3,040,455, 6–26–62, Cl. 36—72.
Critchell, Dean J.: *See*—
Bagdon, Stanley W., and Critchell. 3,029,952.
Critcher, John L., N. J. La Costa, P. E. Sweeney, and I. R. Barr, Ammunition. 3,033,116, 5–8–62, Cl. 102—93.
Critchfield, Charles J.: *See*—
Bohl, Leland S., Critchfield, Huch, Ney, and Winckler. 3,063,656.
Critchley, Octavius H., K. Barron, and W. H. Kellet, to Coal Industry (Patents) Ltd. Vibrating strain gauges. 3,052,-116, 9–4–62, Cl. 73—88.5.
Critchley, Thomas. Mechanical hammers for portable nailing machines. 3,038,160, 6–12–62, Cl. 1—46.
Critchley, Stuart W., and F. Lamb, to J. R. Geigy, A.-G. Hydraulic fluid compositions. 3,048,545, 8–7–62, Cl. 252—78.
Critelli, Louis J., and C. Riccio. Hole cutting attachment for electric drills. 3,065,654, 11–27–62, Cl. 77—7.
Crits, George J., to Crane Co. Treatment of chemical wastes. 3,062,739, 11–6–62, Cl. 210—24.
Crittenden, Eugene C., Jr.: *See*—
Schmidt, Fred W., Cooper, and Crittenden. 3,048,825.
Crittenden, Eugene C., Jr., and E. K. Gatcombe. Sampling pressure regulator. 3,053,271, 9–11–62, Cl. 137—484.2.
Crittenden, Eugene C., Jr., and R. S. Spriggs, to Space Technology Laboratories, Inc. Superconductive switching component. 3,055,775, 9–25–62, Cl. 117—212.
Croan, Kenneth F. Improved method of molding thin-walled articles from expandable thermoplastic beads. 3,068,526, 12–18–62, Cl. 18—48.
Croan, Leonard S.: *See*—
Margolin, Harold, Croan, Kirk, and Farrar. 3,069,259.
Croasdaile, Frederick G., to Oxygenaire (London) Ltd. Face masks for use in the administration of oxygen or other gases. 3,045,672, 7–24–62, Cl. 128—205.
Croasdaile, Frederick G., to Oxygenaire (London) Ltd. Face masks for use in the administration of oxygen or other gases. 3,067,741, 12–11–62, Cl. 128—205.
Croasdale, William H., to American Can Co. Article packing apparatus. 3,027,697, 4–3–62, Cl. 53—62.
Croce, Gaudenzio: *See*—
Longiave, Carlo Castell, and Groce. 3,032,544.
Croce, Gian F.: *See*—
Longiave, Carlo, Castell, and Groce. 3,032,544.
Croce-Spinelli: *See*—
Leviel, Roger, and Croce-Spinelli. 3,068,172.
Crocker, Harry E.: *See*—
Brown, Jack W., and Crocker. 3,061,688.
Crocker, Harry E., to McGraw-Edison Co. Memory marking apparatus for head carriage of a phonograph. 3,051,492, 8–28–62, Cl. 274—14.
Crocker, Theodore R., H. R. Ronan, and J. E. Van Acker, to Norton Co. Dry-contact limit switch for machine tools. 3,062,343, 11–6–62, Cl. 192—.02.
Crockett, Clarence V., to General Motors Corp. Brake actuating system. 3,036,869, 5–29–62, Cl. 303—2.

Crockett, Thomas W., P. J. Grunfelder, and L. L. Sevebeck, to Western Electric Co., Inc. Positive-starting oscillator circuit. 3,061,798, 10–30–62, Cl. 331—117.

Crockford, Jack A., F. A. Hayes, J. H. Jenkins, and S. D. Feurt, to Palmer Chemical and Equipment Co., Inc. Method of delivering drugs into animals. Re. 25,279, 10–30–62, Cl. 128—218.

Crockford, Jack A., F. A. Hayes, J. H. Jenkins, and S. D. Feurt. Method of delivering drugs into animals. 3,022,785, 2–27–62, 128—218.

Crockford, Joseph R., ¼ to H. Radzinsky. Tampons and protective shield therefor. 3,058,469, 10–16–62, Cl. 128—285.

Crockwell, Douglass. Projection screen. 3,054,325, 9–18–62, Cl. 88—28.91.

Croessant, George F., to Croessant Machine Works Inc. Tool for installing screw anchors. 3,031,098, 4–24–62, Cl. 218—42.

Croessant Machine Works Inc. : *See*—
Croessant, George F. 3,031,098.

Croft, George M., to Majac, Inc. Classifier system. 3,044,-622, 7–17–62, Cl. 209—144.

Croft, Richard D. : *See*—
Veatch, Franklin, Alford, and Croft. 3,030,215.

Crofutt, George B., Jr. : *See*—
Brooks, Chester E., Crofutt, and Henry. 3,070,666.

Croix, Louise S., to Air Reduction Co., Inc. Anesthetic composition comprising halovinyl ether and halo hydrocarbon. 3,027,299, 3–27–62, Cl. 167—52.

Croley, Thomas E., to Kaiser Aluminum & Chemical Corp. Shipping and dispensing container. 3,066,842, 12–4–62, Cl. 229—7.

Cromberg, Otto, G. Pritzbuer, W. Winterhoff, and H. Mayer, to Stahlwerk Kabel C. Poupliер Jr. G.m.b.H. Slide fastener. 3,067,476, 12–11–62, Cl. 24—205.11.

Crombie, John N., and R. M. Hudson, to United States Steel Corp. Manufacture of electrolytic tin plate. 3,030,240, 4–17–62, Cl. 148—16.

Crome, Lester C., to The Dayton Malleable Iron Co. Production of nodular iron. 3,042,513, 7–3–62, Cl. 75—130.

Cromeens, Jeff Y., to Industrial Woodworking Machine Co., Inc. Transfer conveyors. 3,033,341, 5–8–62, Cl. 198—20.

Cromley, William H., and D. J. Hart, to Smith Kline & French Laboratories. Motor activity indicator. 3,063,630, 11–13–62, Cl. 235—92.

Crommen, Roger C. L., to Compagnie Crouzet. Small self-starting synchronous motors having a high power-to-weight ratio. 3,019,359, 1–30–62, Cl. 310—156.

Crompton, Arthur, ½ to Robey & Co., Ltd. Mechanical brake system for winding engines, conveyors and other rotating machines. 3,047,102, 7–31–62, Cl. 188—170.

Crompton, George, to Norton Co. Electrolytic grinder and method of grinding. 3,061,529, 10–30–62, Cl. 204—143.

Crompton & Knowles Corp. : *See*—
Bonner, William J. 3,064,905.
Engleson, Harry E., and Sramek. 3,068,761.
Engleson, Harry E., and Sramek. 3,069,158.
Herard, Archibald J. 3,053,286.
Kronoff, Clarence R. 3,053,285.
Robb, Walter Y. 3,016,923.
Rust, Edgar C., Jr. 3,040,553.
Rust, Edgar C., Jr., and Munroe. 3,051,998.
Wells, Richard D. 3,025,586.
Wells, Richard D. 3,052,948.

Crompton & Knowles Packaging Corp. : *See*—
Engleson, Harry E., and Sramek. Re. 25,143.
Engelson, Harry E., and Sramek. 3,016,670.
Engleson, Harry E., and Sramek. 3,031,814.
Engleson, Harry E., and Sramek. 3,040,635.
Engleson, Harry E., and Sramek. 3,045,558.
Zwarycz, Michael. 3,043,476.

Cromwell, Carroll W., Jr. : *See*—
Neil, Richard D., and Cromwell. 3,065,518.

Cron, James C., and J. L. Sprinkle. Ditch forming attachment for a road grader. 3,039,209, 6–19–62, Cl. 37—98.

Cronan, Francis P., to Dolan & Bullock Co. Method of making a cuff link. 3,052,966, 9–11–62, Cl. 29—106.6.

Crone, Allen F., to Acme Highway Products Corp. Dowel supporting structure for highway joints. 3,045,564, 7–24–62. Cl. 94—8.

Croner, Harry M. : *See*—
Swank, Roland P., and Croner. 3,056,580.

Cronin, Daniel, to Bell Sound Studios, Inc. Noise suppression system. 3,057,968, 10–9–62, Cl. 179—100.2.

Cronin, Dennis C., and E. J. Justus, to Beloit Iron Works. Web dewatering apparatus. 3,053,319, 9–11–62, Cl. 162—367.

Cronin Kathleen V. Tree branch holder. 3,033,504, 5–8–62, Cl. 248—42.

Cronin, Richard H. R. : *See*—
Hough, George V., Cronin, and Cox. 3,035,772.

Cronin, William F., to Branson Instruments, Inc. Time interval measuring device. 3,049,912, 8–21–62, Cl. 73—67.9.

Cronquist, Donald H., to International Business Machines Corp. Pickup device. 3,055,522, 9–25–62, Cl. 214—309.

Cronquist, Donald H., to International Business Machines Corp. Coding transfer. 3,063,627, 11–13–62, Cl. 235—61.6.

Crook, Howard C. Archery sight. 3,027,648, 4–3–62, Cl. 33—46.

Crook, James W., and W. S. Koon, to United States of America, Army. Animal restrainer and exposure chamber. 3,028,839, 4–10–62, Cl. 119—159.

Crooke, Donald W. Fish ladder. 3,038,760, 6–12–62, Cl. 302—14.

Crooke, Raymond E., to Sperry Rand Corp., Ford Instrument Co. Division. Reversible counter. 3,030,017, 4–17–62, Cl. 235—117.

Crooks, George Carl. Magnetic junk basket assembly for drill strings. 3,067,821, 12–11–62, Cl. 166—99.

Crooks, James W., Jr. : *See*—
Werner, Robert V., Weaver, and Crooks. 3,025,520.

Crooks, Milton A., 10% to W. P. Bootz,. Hand reel. 3,062,476, 11–6–62, Cl. 242—96.

Crooks, Sheridan R. : *See*—
Reed, William A., and Crooks. 3,067,032.

Crooks, William R., and J. Fullemann, to The Cooper-Bessemer Corp. Liquification of gas. 3,054,269, 9–18–62, Cl. 62—9.

Crooks, William R., and J. Fullemann, to The Cooper-Bessemer Corp. Manufacture of ammonia. 3,054,660, 9–18–62, Cl. 23—199.

Crookshank, Fred T. : *See*—
Roach, James R., and Crookshank. 3,068,175.

Crookston, Anthony J., Jr. Apparatus for sealing shingles. 3,016,040, 1–9–62, Cl. 118—410.

Croom, James D., Jr. Collapsible tube shield. 3,022,920, 2–27–62, Cl. 222—105.

Croow & Lucke G.m.b.H. : *See*—
Lucke, Ernst. 3,056,562.

Cropper, Wendell P., and B. A. Ritzenthaler, to Standard Oil Company (Indiana)-computer. 3,020,749, 2–13–62, Cl. 73—54.

Crosby, Alton L., and H. W. Roeber, to Sylvania Electric Products Inc. Article handling apparatus. 3,016,124, 1–9–62. Cl. 198—33.

Crosby, Alton L., and J. B. Lewis, to Sylvania Electric Products Inc. Article transfer apparatus. 3,034,663, 5–15–62, Cl. 214—1.

Crosby, Alton L., and P. J. Lecker. Welding apparatus. 3,045,104, 7–17–62, Cl. 219—86.

Crosby, Cedrie W., to Emporium Specialties Co., Inc. Clutch. 3,036,681, 5–29–62, Cl. 192—85.

Crosby, Charles H., W. T. Hicks, and R. R. Wahlberg, to Western Electric Co., Inc. Cables. 3,017,450, 1–16–62, Cl. 174—34.

Crosby, Charles H., W. T. Hicks, A. L. Pizzi, and R. R. Wahlberg, to Western Electric Co., Inc. Apparatus for transporting reels. 3,023,877, 3–6–62, Cl. 198—34.

Crosby, Charles H., W. T. Hicks, F. Wahl, and R. R. Wahlberg, to Western Electric Co., Inc. Snubber for stranding cabler. 3,026,010, 3–20–62, Cl. 226—150.

Crosby, Charles H., G. Dzugan, W. T. Hicks, and R. R. Wahlberg, to Western Electric Co., Inc. Elevator for stranding cabler. 3,029,959, 4–17–62, Cl. 214—16.4.

Crosby, Donald G. : *See*—
Fowler, George W., Crosby, and Proops. 3,021,330.

Crosby Forest Products Co. : *See*—
Murray, Charles A., Campbell, and Richard. 3,033,808.

Crosby, George A., and H. K. Otto, to Signode Steel Strapping Co. Strap feeding and tensioning mechanism. 3,023,693, 3–6–62, Cl. 100—32.

Crosby, Gifford W. : *See*—
Braunwarth, John B., and Crosby. 3,061,619.

Crosby, James S., Jr., to International Business Machines Corp. Checking system. 3,037,191, 5–29–62, Cl. 340—172.5.

Crosby, James S., Jr., and F. Stern-Montagny, to International Business Machines Corp. Data storage system. 3,040,299. 6–19–62, Cl. 340—172.5.

Crosby, Melvin A., to The Commonwealth Engineering Co. of Ohio. Recovery of fresh water from sea water. 3,069,864, 12–25–62, Cl. 62—58.

Crosby, Melvin A., to Basic Research, Inc. Torque sensitive device. 3,069,902, 12–25–62, Cl. 73—136.

Crosby, Murray G. Frequency modulation communication system. 3,029,313, 4–10–62, Cl. 179—15.

Crosby, Murray G. Compatible stereophonic system. 3,047,-666, 7–31–62, Cl. 179—15.

Crosby, William H., Jr., and H. W. Kugler. Method and apparatus for serial sampling of intestinal juice. 3,066,672, 12–4–62, Cl. 128—276.

Crosera, Ferdinand. Automatic loading device, chiefly for airguns. 3,055,355, 9–25–62, Cl. 124—51.

Crosfield, J. F., Ltd. : *See*—
Astley, Edawrd T. 3,042,332.
Crosfield, John F., Allen, Brimelow, and Price. 3,051,-841.
Kogan, Philip, Wolanek, and Wagner. 3,017,486.

Crosfield, John F., G. S. J. Allen, P. Brimelow, and P. R. Price, to J. F. Crosfield Ltd., G. E. B. Abell, P. R. Price, and H. L. Chadder. Printing and photography. 3,051,-841, 8–28–62, Cl. 250—220.

Croshier, Walter J., and F. Burgi, to Standard Gage Co., Inc. Dial bore gages having an extended range. 3,026,622, 3–27–62, Cl. 33—178.

Croskey, Frank A., to General Motors Corp. Electrostatic spray painting apparatus. 3,031,145, 4–24–62, Cl. 239—15.

Croskey, Frank A., and P. J. Rissman, to General Motors Corp. Electrostatic coating apparatus. 3,037,703, 6–5–62, Cl. 239—15.

Crosley Broadcasting Corp. : *See*—
Rockwell, Ronald J. 3,050,697.

Crosman Arms Co., Inc. : *See*—
Malcolm, William R. 3,045,659.
Merz, Rudolf. 3,039,646.
Merz, Rudolf. 3,067,730.
Merz, Rudolf, and Malcolm. 3,056,395.
Crosman, Dorland L., to The Lionel Corp. Toy projectile launcher. 3,025,846, 3–20–62, Cl. 124—26.
Cross, Albert S. J., to Foundry Services International Ltd. Heat-producing mixtures. 3,025,153, 3–13–62, Cl. 75—27.
Cross, Andrew C. Rotary lawn mower guard. 3,038,289, 6–12–62, Cl. 56—255.
Cross, Anthony S., to Eastman Kodak Co. Device for removing and detecting foreign matter from a surface. 3,017,618, 1–16–62, Cl. 340—213.
Cross, Carroll N. Reinforced easel structure. 3,021,631, 2–20–62, Cl. 40—120.
Cross, Carroll N. Display mount and method for forming display apertures therein. 3,058,401, 10–16–62, Cl. 93—1.
Cross, Carroll N. Method for making display mounts. 3,067,652, 12–11–62, Cl. 93—1.
Cross, Carroll N. Method of assembling and joining a plurality of panel members by means of decorative binding material. 3,068,139, 12–11–62, Cl. 156—213.
Cross, Cedric B., and F. Crescenzo, to Package Machinery Co. Apparatus for the high speed feeding of stacked articles. 3,053,373, 9–11–62, Cl. 198—20.
Cross Co., The : *See*—
Cross, Ralph E. 3,048,059.
Cross, Ralph E., and Martens. 3,025,728.
Cross, Donald J., and W. F. Scanlon, to Sylvania Electric Products Inc. Tuning device. 3,022,674, 2–27–62, Cl. 74—10.85.
Cross, Harry E. : *See*—
Read, Frand O., Carman, Cross, and Moir. 3,062,738.
Cross, J. H. : *See*—
Roy, George L. 3,023,759.
Cross, Radley, to R. W. Keeler, R. W. Show, J. C. Fonda, R. Cross, R. E. Messmer, and J. F. Donohue. Magazine for a tape recorder. 3,065,310, 11–20–62, Cl. 179—100.2.
Cross, Ralph C. : *See*—
Burnett, Edward N., Cross, and Tuttle. 3,040,909.
Cross, Ralph C., and W. P. Johnson, to Gerber Products Co. Wiper brush. 3,040,910, 6–26–62, Cl. 214—1.
Cross, Ralph E., to The Cross Co. Index table for machine tools. 3,048,059, 8–7–62, Cl. 74—819.
Cross, Ralph E., and H. A. Martens, to The Cross Co. Tool detector. 3,025,728, 3–20–62, Cl. 77—22.
Cross, Rena : *See*—
Roy, George L. 3,023,759.
Cross, Richard N., to General Electric Co. Brake slack adjustment. 3,037,398, 6–5–62, Cl. 74—586.
Cross, St. Elmo : *See*—
Reeves, Willard D. 3,017,660.
Crossan, Jesse R. : *See*—
Pfeiffer, Fred B. 3,020,190.
Crossan, Jesse R., ½ to F. B. Pfeiffer. Fish lure. 3,032,910, 5–8–62, Cl. 43—42.22.
Crossett Chemical Co., a Division of Crossett Co., The : *See*—
Donham, James E. 3,049,490.
Donham, James E. 3,049,491.
Crosskey, Albert A., and J. O. Crabtree, to J.O.C. Engineers Ltd. Folding machines. 3,022,996, 2–27–62, Cl. 270—76.
Crossley, Cecil H. Holder for gauge wires. 3,068,582, 12–18–62, Cl. 33—199.
Crossley, Harry E., Jr., to Robertshaw-Fulton Controls Co. Differential pressure transmitter. 3,061,823, 10–30–62, Cl. 340—187.
Crossley Machine Co., Inc. : *See*—
Lamb, Harold W. 3,058,432.
Crossley, Thomas J. : *See*—
Nelson, Earl W., and Crossley. 3,050,365.
Crossman, Robert N. : *See*—
Franklin, Robert K., Boren, Oliphant, and Crossman. 3,022,618.
Crosson, Jean H., to United States of America, Army. Antiray eye shield. 3,030,628, 4–24–62, Cl. 2—14.
Crosson, Jean H., and H. N. Khanbegian, to United States of America, Army. Camouflage cover for helmets. 3,015,104, 1–2–62, Cl. 2—6.
Crosswell, Flay D. : *See*—
Stroup, Earl L., Crosswell, and Schacht. 3,038,535.
Crost, Joseph G. : *See*—
Sorensen, Egon, and Crost. 3,069,872.
Crotser, Frank P. : *See*—
Brown, Carl E., and Crotser. 3,022,639.
Crouch, Willie W., to Phillips Petroleum Co. Rocket motor with controlled propellant charge. 3,023,570, 3–6–62, Cl. 60—35.6.
Crouch, Willie W., to Phillips Petroleum Co. Recovery of polymers from solution. 3,042,637, 7–3–62, Cl. 260—17.5.
Croucher, Anthony H. Ditch cleaners or trenchers. 3,025,618, 3–20–62, Cl. 37—85.
Crouchman, Alan J., to Sangamo Electric Co. Icing condition detector. 3,057,198, 10–9–62, Cl. 73—170.
Croul, Edward C. : *See*—
Costello, William T. 3,030,742.
Crouse, David J., Jr., to United States of America, Atomic Energy Commission. Stripping of uranium from organic extractants. 3,052,513, 9–4–62, Cl. 23—14.5.
Crouse-Hinds Co. : *See*—
Berry, Richard C. 3,040,120.
Berry, Richard C., and Stier. 3,041,420.
Crousore, Richard R. Holder for plant cuttings. 3,044,215, 7–17–62, Cl. 47—41.
Crouthamel, Richard, to Philco Corp. Method for fabricating semiconductor devices. 3,015,874, 1–9–62, Cl. 29—25.3.
Crouzet, Compagnie : *See*—
Crommen, Roger C. L. 3,019,359.
Crow, Cecil H. Automatic weighing scale. 3,025,921, 3–20–62, Cl. 177—105.
Crow, Edward L. Top loading fluid pump. 3,046,904, 7–31–62, Cl. 103—155.
Crow, Jack H. : *See*—
Betzold, Edward J., Jr., and Crow. 3,025,404.
Crow, Robert P. : *See*—
Rose, Samuel W., Crow, and Kelley. 3,041,507.
Crow, Robert P., and G. J. Vollink, to Motorola, Inc. Microphone preamplifier. 3,048,659, 8–7–62, Cl. 179—1.
Crowe, Edgar : *See*—
Crampton, Peter, and Crowe. Re. 25,168.
Crowe, George A., Jr. : *See*—
Liloia, Gerald J., Crowe, and Beidler. 3,053,253.
Crowell, Carl C., 25% to Wendell Coffee. Wire line fishing tool. 3,016,954, 1–16–62, Cl. 166—98.
Crowell Designs, Inc. : *See*—
Hanson, Alfred H. 3,043,338.
Crowell, Leo A., to United Shoe Machinery Corp. Shoe positioning and clamping jacks. 3,030,625, 4–24–62, Cl. 1—137.
Crowhurs, Norman H., to Columbia Broadcasting System, Inc. Stereoponichamplifiers and output transformers. 3,035,120, 5–15–62, Cl. 179—1.
Crowl, James S., to Acheson Industries, Inc. Molybdenum disulfide lubricant and method for making same. 3,062,741, 11–6–62, Cl. 252—25.
Crowley, Daniel J., E. E. Folkenroth, and D. R. Packard, to AMP Inc. Apparatus for severing electrical leads from a continuous wire source. 3,018,679, 1–30–62, Cl. 83—154.
Crowley, George C., to General Electric Co. Detachable electrical connector. 3,046,513, 7–24–62, Cl. 339—91.
Crowley, Gerald J., to United Shoe Machinery Corp. Methods of making shoes. 3,021,543, 2–20–62, Cl. 12—142.
Crowley, Joseph C. : *See*—
Picardi, Joseph E., and Crowley. 3,029,647.
Crowley, Ray B. : *See*—
Bartel, Kenneth A., and Crowley. 3,039,421.
Crowley, Walter W. Garment carrier. 3,051,302, 8–28–62, Cl. 206—7.
Crown Auto Top Mfg. Co. : *See*—
Gurvis, Henry. 3,026,237.
Crown Cork and Seal Co., Inc. : *See*—
Anderson, John T. 3,067,891.
Barr, Preston W. 3,067,852.
Schell, Roger E. 3,026,997.
Schell, Roger E. 3,029,349.
Schell, Roger E. 3,039,354.
Schmidt, John. 3,029,988.
Wilckens, Eibe A. 3,015,388.
Wilckens, Eibe A. 3,047,176.
Crown, Lionel, to Ampex Corp. Cable harness strip. 3,023,692, 3–6–62, Cl. 100—1.
Crown Machine & Tool Co. : *See*—
Harrison, James M. 3,045,286.
Crown Stove Works : *See*—
Rogers, John C. 3,059,632.
Crown Zellerbach Corp. : *See*—
Austin, Raymond C., and Strand. 3,024,098.
Babin, Alexander. 3,017,055.
Bousquet, John A., McDonald, and Voigt. 3,031,356.
Coma, James G., and Gerttula. 3,045,051.
Erwin, Frederick J., Jr., and Larson. 3,031,821.
Helversen, Frederick B., Chaplin, and Tellier. 3,021,254.
Herschler, Robert J. 3,023,074.
Holbrook, Herbert T., and Johnson. 3,054,551.
Hoyt, Charles H. 3,035,042.
Hoyt, Charles H. 3,070,591.
King, George O., Jr., and Ross. 3,069,063.
Loehr, Barbara F. 3,044,885.
Lowe, Alexander K., and Grass. 3,030,750.
MacGregor, Warren S. 3,069,473.
Moller, Everett, and Williams. 3,032,250.
Mosen, Donald W. 3,016,780.
Repking, Edward F. 3,041,942.
Schiffbauer, Robert V., and Shinn. 3,028,502.
Strauss, Herman H. 3,031,277.
Tokos, George M., and Jasper. 3,064,403.
Tuft, George H. 3,028,047.
Warwick, John N. 3,043,488.
Wolfe, Raymond E. 3,021,994.
Crown City Die Casting Co. : *See*—
Freibott, Leonard W. 3,067,436.
Crownover, Joseph W., 25% to W. W. Haefliger. Transducer. 3,035,126, 5–15–62, Cl. 179—100.41.
Crowson, Walter C. Lubricator. 3,036,659, 5–29–62, Cl. 184—11.
Crowther, Charles B. : *See*—
Martin, Ernest N., Bartle, and Crowther. 3,031,267.
Crowther, Edmond C. Electrical connector. 3,068,445, 12–11–62, Cl. 339—246.
Crowther, Francis L. : *See*—
Scott, William J., and Crowther. 3,059,193.
Crowther, George A., L. S. Brown, and W. G. Hampton, to Sperry Rand Corp., Ford Instrument Co. Division. Gun order computer. 3,064,884, 11–20–62, Cl. 235—61.5.

Crowther, Philip A. T., and J. Swaine, to The Raven Co. Ltd. Internal combustion engines of the liquid fuel injection compression ignition type. 3,025,839, 3–20–62, Cl. 123—32.

Crowther, Philip A. T., and J. Swaine, to The Rover Co., Ltd. Internal combustion engines of the liquid fuel injection compression ignition type. 3,039,445, 6–19–62, Cl. 123—32.

Crowther, Russell L., to General Electric Co. Shielded thorium fuel element. 3,042,598, 7–3–62, Cl. 204—193.2.

Croxall, Willard J., and N. D. Dawson, to Miles Laboratories, Inc. Methylene dioxanes. 3,021,341, 2–13–62, Cl. 260—340.6.

Croxall, Willard J., and N. D. Dawson, to Miles Laboratories, Inc. Process for producing 2-hydrocarbon-2-dioxenes. 3,048,598, 8–7–62, Cl. 260—340.6.

Croxen, Donald J. Full closing Venetian blind. 3,032,099, 5–1–62, Cl. 160—168.

Croxton, William B., and R. J. Holshouser, to Mooresville Iron Works, Inc. Slasher creel apparatus. 3,015,147, 1–2–62, Cl. 28—28.

Crozier, Robert N.: *See—*
Lavin, Edward, Fitzhugh, and Crozier. 3,069,379.

Cruciani, Frido, to Centine & Biondins Cruciani S.p.A. Rope crane. 3,065,861, 11–27–62, Cl. 212—12.

Crucible Steel Co. of America: *See—*
Dasher, John, and Chang. 3,017,665.
Day, Maurice J., and Stavrolakis. 3,038,817.
Foote, Donald S., Flowers, and Hubbell. 3,048,503.
Genter, David H. E. 3,050,830.
Vordahl, Milton B. 3,066,391.

Cruess, William F.: *See—*
Derr, Willard A., and Cruess. 3,048,820.

Cruger, Robert W. Device for arresting the movement of landing aircraft or the like. 3,017,144, 1–16–62, Cl. 244—110.

Cruickshank, Philip A., to E. I. du Pont de Nemours and Co. Process for the purification of liquids. 3,046,303, 7–24–62, Cl. 260—486.

Crum, Eben J. High speed uncoiler. 3,018,066, 1–23–62, Cl. 242—128.

Crum, Eben J. Orbiting head for coreless coiler. 3,033,484, 5–8–62, Cl. 242—82.

Crum, Eben J. Machine for winding coreless coils. 3,061,229, 10–30–62, Cl. 242—83.

Crum, Joe Jr., to Logan Gear Co., Inc. Quick-change universal drive shaft. 3,069,875, 12–25–62, Cl. 64—23.

Crumbo, William A., to Continental Steel Corp. Adjustable barbed wire support assembly for fences. 3,028,147, 4–3–62, Cl. 256—11.

Crumley, Richard G.: *See—*
Lawrence, Franklin I. L., and Crumley. 3,038,873.

Crummel, Fred J. Downspout drainage system. 3,048,983, 8–14–62, Cl. 61—15.

Crump, Elmo E.: *See—*
Foster, Harry R., and Crump. 3,049,683.

Crump, Jack G. Collapsible shelter. 3,020,919, 2–13–62, Cl. 135—1.

Crump, Owen D. M. Overload breaker. 3,021,180, 2–13–62, Cl. 302—56.

Crump, William M., D. A. Vaillancourt, and J. B. Bowens. Fishing rod holder. 3,051,422, 8–28–62, Cl. 248—40.

Crump, Woodford J. to Aircraft Tools, Inc. Countersink tool and control means. 3,060,772, 10–30–62, Cl. 77—73.5.

Crumpen, Mervyn J.: *See—*
O'Nians, Frank A., and Crumpen. 3,067,421.

Crumrine, Herbert E., to Xerox Corp. Xerographic plate supporting apparatus. 3,040,621, 6–26–62, Cl. 88—24.

Crumrine, Herbert E., and C. L. Huber, to Xerox Corp. Xerographic plate feeding and charging apparatus. 3,017,509, 1–16–62, Cl. 250—49.5.

Crumrine, Herbert E., and C. L. Huber, to Xerox Corp. Powder cloud generating apparatus. 3,060,131, 10–23–62, Cl. 252—359.

Crunden Martin Mfg. Co.: *See—*
Schwarz, Emil A., Kern, and Haselhorst. 3,038,623.

Crusellas, Alberto, and A. Goudie. Window protection. 3,021,898, 2–20–62, Cl. 160—364.

Cruson, Izaak P., to Nederlands-Amerikaanse Fittingfabriek, N.V. Scaffolding. 3,055,464, 9–25–62, Cl. 189—36.

Crutcher-Rolfs-Cummings, Inc.: *See—*
Cummings, Ernest E. 3,037,228.
Cummings, Ernest E. 3,044,431.
Cummings, James D. 3,016,856.
Foster, Robert D. 3,052,066.

Crutzen, Jan L.: *See—*
Fischer, Walter, Crutzen, and Nilles. 3,060,510.

Cruz, Edward S., to Lockheed Aircraft Corp. Foldable stairway for aircraft. 3,047,093, 7–31–62, Cl. 182—97.

Cruzan, Charles G., to Phillips Petroleum Co. Ignition method for countercurrent in situ combustion. 3,048,222, 8–7–62, Cl. 166—11.

Cruzen, Larry L., to Burroughs Corp. Clutch mechanism. 3,062,345, 11–6–62. Cl. 192—26.

Cryderman, Wilfred G., and A. R. Marshall, to Kaybar, Inc. Method of making textured leather-like article and product thereof. 3,023,124, 2–27–62, Cl. 117—45.

Crystal, Alfred H., to United States of America, Navy. Closed loop resolver sweep circuit. 3,064,180, 11–13–62, Cl. 323—48.

Crystal, Maurice I.: *See—*
Barrett, George T., and Crystal. 3,037,189.

Crystal Products Co., Ltd.: *See—*
Levy, Elizabeth. 3,044,613.

Csendes, Ernest: *See—*
Bell, Richard W., Csendes, and McShane. 3,057,820.

Csendes, Ernest, to E. I. du Pont de Nemours and Co. Polyurethane elastomers cured with paraformaldehyde. 3,021,-307, 2–13–62, Cl. 260—72.

Csendes, Ernest, and J. J. Verbanc, to E. I. du Pont de Nemours and Co. Polyurethane elastomers cured with N,N-dimethylolethyleneurea. 3,021,306, 2–13–62, Cl. 260—67.5.

Csizmansky, Alex: *See—*
Keller, August, and Csizmansky. 3,056,973.

Csonka, Lajos, F. Horkay, F. Szántó, J. Szerecz, and J. Gönczy. Process for the preparation of zinc oxide pigments. 3,042,539, 7–3–62, Cl. 106—296.

Cuban-American Sugar Co., The: *See—*
Nelson, Douglas C. 3,023,183.

Cubberley, Richard H., V. C. Harold, Jr., and H. J. Zinaman, to The Patent and Licensings Corp. Sound dampening composition. 3,020,184, 2–6–62, Cl. 154—44.

Cubberly, Henry A., to The Bendix Corp. Automatic multicycle closing switch or circuit breaker. 3,030,472, 4–17–62, Cl. 200—116.

Cubbidge, James F., and A. L. Dixon, to Western Electric Co., Inc. Article transfer apparatus. 3,057,452, 10–9–62, Cl. 198—25.

Cubeddu, Tommaso, to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Process for the production of hydrogen peroxide from alkylanthraquinones. 3,026,180, 3–20–62, Cl. 23—207.

Cubellis, Guido. Sensitive contact switch for material guiding device. 3,032,691, 5–1–62, Cl. 317—124.

Cubic Corp.: *See—*
Werner, Robert V. 3,068,469.
Werner, Robert V., and Thompson. 3,068,470.

Cuches, John P., to Daco Instrument Co. Rotary actuator. 3,039,027, 6–12–62, Cl. 317—189.

Cuchiara, Anthony. Smoking pipe reamer. 3,023,754, 3–6–62, Cl. 131—246.

Cuculo, John A., to E. I. du Pont de Nemours and Co. Monofilaments. 3,057,040, 10–9–62, Cl. 28—82.

Cudhea, Ralph V.: *See—*
Aubrey, Howard W., and Cudhea. 3,046,882.

Cue Fastener, Inc.: *See—*
Burbank, John E. 3,053,288.
Schwartz, Lawrence. 3,038,207.

Cueppers, Curt, and K. Kirchhuebel. Haldinger's brush attachment for synoptophore apparatus. 3,044,348, 7–17–62, Cl. 88—20.

Cuffman, Joseph C. Oscillating lamp support. 3,062,987, 11–6–62. Cl. 315—360.

Cugini, John A.: *See—*
Thibault, Harrison N., and Cugini. 3,023,788.

Cuhrt, Louis C.: *See—*
Southwell, Edward H., Emal, Cuhrt, and Wang. 3,029,674.

Cuille, Jean, and H. Guyot, to Agence de Representations Directes pour la Defense des Interets Commerciaux and Usines Schloesing Freres & Cia. Oily base concentrate for admixture into oil plant spray. 3,030,266, 4–17–62, Cl. 167—42.

Culbertson, Harry M., and B. L. Williams, Jr., to Monsanto Chemical Co. Protective coating compositions comprising a ternary mixture of an oil-modified alkyd resin and an etherified formaldehyde resin. 3,056,755, 10–2–62, Cl. 260—2.

Culbertson, James B., and W. B. Mattingly, to Union Carbide Corp. Production of lower valence state halides and oxyhalides. 3,057,679, 10–9–62, Cl. 23—87.

Culbertson, James B., H. Lamprey, and R. L. Ripley, to Union Carbide Corp. Ultrafine metal powders. 3,062,638, 11–6–62, Cl. 75—.5.

Culbertson, Robert D., R. C. McRae, and L. A. Noble, to Eitel-McCullough, Inc. Matrix type cathode. 3,031,740, 5–1–62, Cl. 29—182.3.

Culbertson, William J., Jr.: *See—*
Nevans, Thomas D., and Culbertson. 3,020,227.

Culbertson, William J., Jr., and T. D. Nevens, to The Oil Shale Corp. Plant and process for the production of oil. 3,020,209, 2–6–62, Cl. 202—14.

Culik, Karel, M. Herold, J. Palkoska, E. Belik, and J. Dasek, to Spofa, sdruzeni podniku pro zdravotnickou vyrobu. Method of producing tetracycline. 3,037,917, 6–5–62, Cl. 195—80.

Culk, Raimund. Refrigeration compressor. 3,032,257, 5–1–62, Cl. 230—58.

Cull, Neville L.: *See—*
Aldridge, Clyde L., and Cull. 3,056,771.

Cull, Neville L., and G. P. Hammer, to Esso Research and Engineering Co. Coating compositions of asphaltenes and oxidized liquid diolefin polymers. 3,025,254, 3–13–62, Cl. 260—28.5.

Cull, Neville L., and R. L. Ray, to Esso Research and Engineering Co. Coating composition comprising oxidized diene polymer, oxidized polymer of a petroleum distillate and titanate ester, and process of making same. 3,035,013, 5–15–62, Cl. 260—45.5.

Cull, Neville L., and P. T. Parker, to Esso Research and Engineering Co. Method for oxidizing diolefin drying oils. 3,038,923, 6–12–62, Cl. 260—451.

Cull, Neville L., E. A. Hunter, T. G. Verbois, and R. L. Ray, to Esso Research and Engineering Co. Process for oxidizing polymeric butadiene drying oil in the presence of steam-cracked petroleum resin, and resulting product. 3,048,562, 8–7–62, Cl. 244—129.

Cull, Neville L., M. M. Lambert, J. W. Carr, Jr., and P. J. Berkeley, Jr., to Esso Research and Engineering Co. Reclaiming of polymer from clay used in quenching polymerization catalyst. 3,050,569, 8–21–62, Cl. 260—669.

Cull, Neville L., D. D. Dunlop, and A. H. Gleason, to Esso Research and Engineering Co. Oxidized polymer with a low viscosity. 3,068,300, 12–11–62, Cl. 26—669.

Cull, Thomas F., and R. G. Leiteritz. Cleaning attachment for dry cleaning reclaimers. 3,016,625, 1–16–62, Cl. 34—85.

Cullen, Frank S., to Insulwool Products Proprietary Ltd. Machine for the manufacture of moulded perforated articles. 3,049,784, 8–21–62, Cl. 25—42.

Cullen-Friestedt Co.: *See*—
Benes, William S. 3,022,066.

Culligan, Inc.: *See*—
Schulze, Robert E., Jauch, and Kruckeberg. 3,036,525.
Schulze, Robert E., Jauch, and Kruckeberg. 3,053,268.

Cullinane, Alfred J. Electrical earthing systems. 3,059,042, 10–16–62, Cl. 174—6.

Culling, John H., to Carondelet Foundry Co. Grate bars. 3,063,696, 11–13–62, Cl. 266—21.

Cullis, John, Jr., to Burroughs Corp. Counting circuits. 3,016,473, 1–9–62, Cl. 315—8.5.

Culmer, Thaddeus W., to H. Stewart. Oil additive concentrate. 3,058,910, 10–16–62, Cl. 252—32.7.

Cullo, Leonard A.: *See*—
Schindler, Harvey D., Cullo, and Witheford. 3,031,420.

Culp, Archie W., Jr., to Astra, Inc. Neutron pyrometer. 3,051,838, 8–28–62, Cl. 250—83.1.

Culpepper, James L. High stability aircraft wing with boundary air control. 3,058,696, 10–16–62, Cl. 244—42.

Culver, Eugene S., to United States of America, Navy. Missile transfer dolly. 3,018,129, 1–23–62, Cl. 296—35.

Culver, Frederick H., and E. B. Laguckí, to Shell Oil Co. Tool carrier. 3,050,130, 8–21–62, Cl. 166—153.

Culveyhouse, Stanley J.: *See*—
Weidenhammer, James A., Wroblewski, Watkins, Culveyhouse, and Serenate. 3,034,782.

Cumings, Richard G. Coherent pulse rate divider consisting of counter, monostable multivibrator and pentode coincidence gate. 3,018,440, 1–23–62, Cl. 328—41.

Cumming, James C.: *See*—
House, Bryan E., and Cumming. 3,057,439.

Cumming, John, to G. S. Blakeslee & Co. Plastic link conveyor. 3,017,014, 1–16–62, Cl. 198—131.

Cummings, David B.: *See*—
Batzer, Thomas H., Ryan, and Cummings. 3,036,172.
Hartwig, Edward C., Cummings, and Post. 3,015,748.

Cummings, Ernest E., to Crutcher-Rolfs-Cummings, Inc. Internal treatment of pipes. 3,037,228, 6–5–62, Cl. 15—104.1.

Cummings, Ernest E., to Crutcher-Rolfs-Cummings, Inc. Internal pipe clamp. 3,044,431, 7–17–62, Cl. 113—102.

Cummings, Francis M., W. H. Fleming, and V. H. Matson, to The Electrada Corp. Circuit tester. 3,046,480, 7–24–62, Cl. 324—62.

Cummings, Frederick W., and H. D. Mowers, to General Motors Corp. Method and apparatus of making electrical heating elements. 3,017,688, 1–23–62, Cl. 29—155.66.

Cummings, Hugh M. Square attachment. 3,015,163, 1–2–62, Cl. 33—94.

Cummings, James D., to Crutcher-Rolfs-Cummings, Inc. Pipe alignment clamp. 3,016,856, 1–16–62, Cl. 113—102.

Cummings, James D. Antivermin treatment for animals. 3,045,646, 7–24–62, Cl. 119—157.

Cummings, Jesse M., to New England Plastics Corp. Means for constructing joints in concrete roads. 3,052,945, 9–11–62, Cl. 25—118.

Cummings-Landau Laundry Machinery Co., Inc.: *See*—
Hutterer, Martin. 3,050,211.

Cummings, Leslie L., to Otis Engineering Corp. Check valves. 3,022,796, 2–27–62, Cl. 137—454.6.

Cummings, Lowell O., to Pacific Vegetable Oil Corp. Epoxy resin-isano oil compositions. 3,051,671, 8–28–62, Cl. 260—18.

Cummings, Nicholas A.: *See*—
Cummings, Thomas N., Peterson, and Shiu. 3,041,802.

Cummings, Ralph J. Adjustable shutter in hermetically sealed casing. 3,022,549, 2–27–62, Cl. 20—56.5.

Cummings, Raymond P., to Hudson Pulp & Paper Corp. Cup making machine. 3,063,347, 11–13–62, Cl. 93—39.3.

Cummings, Robert L.: *See*—
Martin, Cecil G., and Cummings. 3,023,980.

Cummings, Rodney B. Method and apparatus for locating faults in transmission lines. 3,037,161, 5–29–62, Cl. 324—52.

Cummings, Thomas N., B. R. Peterson, Jr., and T. B. Shiu, ¼ to N. A. Cummings. Method of forming a sealed conical container. 3,041,802, 7–3–62, Cl. 53—39.

Cummings, Thomas N., B. R. Peterson, Jr., and T. B. Shiu, to CPS Mfg. Co. Apparatus for handling and filling erected cartons. 3,042,225, 7–3–62, Cl. 214—1.

Cummings, William L., to Wilevco, Inc. Mixer. 3,029,069, 4–10–62, Cl. 259—4.

Cummins, Alonzo E.: *See*—
Patterson, Pat, and Cummins. 3,057,406.

Cummins-Chicago Corp.: *See*—
Byland, Henry L. 3,055,292.
Dreyer, William H. 3,033,445.
Dreyer, William H., and Schreiter. 3,049,286.
Quinn, James L. 3,020,524.
Quinn, James L. 3,033,448.
Quinn, James L. 3,048,181.
Quinn, James L., and Duncan. 3,021,950.
Quinn, James L., and Jones. 3,033,444.
Quinn, James L., and Jones. 3,033,449.
Snowdon, Donald E., and Andersen. 3,018,036.

Cummins Engine Co., Inc.: *See*—
Reiners, Neville M. 3,034,488.
Reiners, Neville M. 3,036,565.

Cummins, John. Vehicle seat vibrator assembly. 3,037,499, 6–5–62, Cl. 128—33.

Cummins, Lawrence A., to The Pure Oil Co. Boiler tube leak tester. 3,029,630, 4–17–62, Cl. 73—46.

Cummins, Richard D., to The Firewel Co., Inc. High pressure butterfly valve. 3,030,069, 4–17–62, Cl. 251—306.

Cummins, Robert J.: *See*—
Rasch, Herman R., and Cummins. 3,019,861.

Cummins, William F.: *See*—
Branum, David R., and Cummins. 3,067,344.

Cumpston, Edward H., Jr., to General Electric Co. Electric circuit board. 3,042,741, 7–3–62, Cl. 174—68.5.

Cumpton, Donald R. Heated road roller. 3,066,585, 12–4–62, 94—50.

Cundiff, Joseph C., to Burlington Industries, Inc. Device for producing novelty patterns. 3,036,448, 5–29–62, Cl. 66—86.

Cundiff, Lester B.: *See*—
Meissner, William E., Cundiff, and Barrall. 3,066,461.

Cuneo Press, Inc., The: *See*—
Spevacek, Charles A. 3,031,317.

Cunetta, Joseph. Adjustable airlift pump. 3,028,817, 4–10–62, Cl. 103—232.

Cunetta, Joseph. Digester with removable gas lifts. 3,055,502, 9–25–62, Cl. 210—197.

Cunliffe, Wallace. Ice cube dispensing and storage device. 3,021,978, 2–20–62, Cl. 221—64.

Cunneen, John I., and W. F. Watson, The Natural Rubber Producers' Research Association. Treatment of rubber. 3,062,802, 11–6–62, Cl. 260—94.7.

Cunningham, Andrew L.: *See*—
Wainer, Eugene, and Cunningham. 3,023,115.

Cunningham, Arthur B. Plant watering and feeding device. 3,026,827, 3–27–62, Cl. 111—7.1.

Cunningham, Arthur R., to Cunningham & Sons. Hub and tine assembly for tedder. 3,068,635, 12–18–62, Cl. 56—372.

Cunningham, Charles L. Guitar suspension strap with belt adapter. 3,037,416, 6–5–62, Cl. 84—327.

Cunningham, Donald E., to Thompson Ramo Wooldridge Inc. System controlling apparatus and method. 3,032,029, 5–1–62, Cl. 128—2.1.

Cunningham, Ernest R., Jr. Combination motor grader and bulldozer. 3,027,662, 4–3–62, Cl. 37—180.

Cunningham, Francis V., to Hubbard and Co. Spark-gap arrangement for lightning arresters. 3,069,589, 12–18–62, Cl. 315—36.

Cunningham, Fred A., J. O. Klatt, R. F. Brown, and W. W. Slovacek, to The Facs Mfg. Co., Inc. Extruding apparatus. 3,019,746, 2–6–62, Cl. 107—14.

Cunningham, Fred A., J. O. Klatt, R. F. Brown, and W. W. Slovacek, to The Facs Mfg. Co., Inc. Method of making corn chips. 3,020,162, 2–6–62, Cl. 99—80.

Cunningham, Frederick W., R. Y. Miner, and Q. J. Evans, to American Bosch Arma Corp. Precision multiplier. 3,048,769, 8–7–62, Cl. 323—43.5.

Cunningham, George L., to W. R. Grace & Co. Production of sodium fluoride. 3,021,193, 2–13–62, Cl. 23—88.

Cunningham, George L., to W. R. Grace & Co. Production of ammonium hydrogen fluoride. 3,021,194, 2–13–62, Cl. 23—88.

Cunningham, James D., to Consolidated Electrodynamics Corp. Electrical connector. 3,059,216, 10–16–62, Cl. 339—217.

Cunningham, James M., F. L. Pratt, and G. J. Watkins, to International Business Machines Corp. Offset print correction device. 3,052,408, 9–4–62, Cl. 235—61.11.

Cunningham, James M., and P. M. Kovach, to International Business Machines Corp. Toll highway recorder system. 3,057,422, 10–9–62, Cl. 177—210.

Cunningham, James M., and F. L. Pratt, to International Business Machines Corp. Continuously operable multideck hopper. 3,062,535, 11–6–62, Cl. 271—62.

Cunningham, Kenneth G., and A. J. Baillie, to Imperial Chemical Industries Ltd. Wall plasters and their preparation. 3,057,742, 10–9–62, Cl. 106—115.

Cunningham, Lewis L. Modulating thermostat. 3,025,484, 3–13–62, Cl. 338—31.

Cunningham, Patrick J., and M. B. Wolf, to The Task Corp. Force moment type strain gauge support. 3,043,136, 7–10–62, Cl. 73—133.

Cunningham, Richard, Jr., and H. R. Rix, to Vapor Heating Corp. Steam generator. 3,060,905, 10–30–62, Cl. 122—448.

Cunningham, Richard R.: *See*—
Wyart, John W., Vona, and Cunningham. 3,061,629.

Cunningham & Sons: *See*—
Cunningham, Arthur R. 3,068,635.

Cunningham, Thomas P. Coupling devices. 3,050,166, 8–21–62, Cl. 192—43.

Cunningham, Walter F., to Superior Tabbies, Inc. Index tabs and method and apparatus for making the same. 3,070,482, 12–25–62, Cl. 156—269.

Cunningham, William J., to Rohm & Haas Co. Process which comprises forming a gel from a solution in a vinylidene compound of isotactic polymethyl methacrylate and syndiotactic polymethylmethacrylate and polymerizing said gel. 3,050,785, 8–28–62, Cl. 18—59.

Cunningham, William J., R. F. Sweeney, and C. Woolf, to Allied Chemical Corp. Manufacture of chlorofluoropropenes. 3,047,639, 7–31–62, Cl. 260—653.3.

Cunningham, Willis C.: *See*—
Malone, William T., and Cunningham. 3,064,730.

Cunningham, Zed. Tire mounting apparatus. 3,038,528, 6–12–62, Cl. 157—1.24.

Cuny, Richard P.: *See*—
Lauckis, Howard H., O'Connor, and Cuny. 3,052,252.

Cuomo, Ralph. Method of making sweet curd cheese. 3,047,400, 7–31–62, Cl. 99—116.

Cupedo, Douwe J. Apparatus for hydraulically or pneumatically operating a member, such as the slide or the valve member of a stop valve. 3,046,802, 7–31–62, Cl. 74—89.

Cuperus, Jacob A., and M. K. Kleijn, to Het Spoorwegbouwbedrijf, N.V. Sleeve-shaped plug for a pin-shaped fastening member. 3,067,546, 12–11–62, Cl. 50—268.

Cupido, Piet M., and A. M. J. M. Conijn, to North American Philips Co., Inc. Liquid level measuring apparatus. 3,054,188, 9–18–62, Cl. 33—126.

Cupler, John A., II. Spinnerette production method. 3,041,894, 7–3–62, Cl. 76—107.

Cupper, Robert A., to Union Carbide Corp. Synthetic lubricant compositions. 3,053,768, 9–11–62, Cl. 252—49.6.

Curatolo, Frank, to Curtis Office Partition Co., Inc. Desk-partition combination. 3,027,214, 3–27–62, Cl. 312—140.4.

Curatolo, Joseph. Cleaners for louvers and shutters or the like. 3,065,483, 11–27–62, Cl. 15—210.

Curci, Alfred. Self-walking device. 3,038,275, 6–12–62, Cl. 46—247.

Curci, Alfred. Sound-reproducing device. 3,055,664, 9–25–62, Cl. 274—15.

Curello, Charles: *See*—
Nickerson, Basil S., and Curello. 3,033,136.

Cureton, Paul. Vertical blind. 3,061,003, 10–30–62, Cl. 160—118.

Cureton, Warren D., F. D. Ford, D. L. Huebsch, and A. M. Skudre, to United States of America, Army. Connecting apparatus. 3,052,767, 9–4–62, Cl. 200—46.

Curl, Robert S.: *See*—
Cantwell, Edward G., Curl, and Linzell. 3,046,521.

Curlator Corp.: *See*—
Coghill, James T. 3,028,632.
Coghill, James T. 3,028,633.
Coghill, James T. 3,028,634.

Curle, Archie E.: *See*—
Herring, William I., and Curle. 3,032,124.

Curlee, Harvey P. and R. E., to Curlee Machinery Co., Inc. Wrapping machine. 3,069,824, 12–25–62, Cl. 53—133.

Curlee, Harvie P., Jr.: *See*—
Phillips, Malcolm E., Jr., and Curlee. 3,019,581.

Curlee Machinery Co., Inc.: *See*—
Curlee, Harvey P. and R. E. 3,069,824.

Curlee, Richard E.: *See*—
Curlee, Harvey P. and R. E. 3,069,824.

Curlett, John, to Gurries Mfg. Co. Valve operating unit for a leveling system. 3,057,092, 10–9–62, Cl. 37—180.

Curlett, John, to Gurries Mfg. Co. Flow dividing system. 3,065,602, 11–27–62, Cl. 60—52.

Curn, William J., Jr. Small animal house. 3,016,042, 1–9–62, Cl. 119—19.

Curnin, Thomas F. Lockable leg brace joint. 3,043,297, 7–10–62, Cl. 128—80.

Curran, Bernard E., to H. H. Robertson Co. End closure for air cell. 3,025,883, 3–20–62, Cl. 138—89.

Curran, Bernard E., G. E. Kautz, and T. W. Marshall, to H. H. Robertson Co. Low noise air distributor. 3,059,564, 10–23–62, Cl. 98—38.

Curran, Frank J., Co.: *See*—
Klingler, Josef F. 3,017,117.

Curran, George W., and J. A. Stein. Lawn mower or similar wheeled vehicle with adjustable skids. 3,024,586, 3–13–62, Cl. 56—25.4.

Curran, James, to Thomas French & Sons Ltd. Magazine charger with inwardly raised ribs. 3,030,724, 4–24–62, Cl. 42—88.

Curran, John J., to Unipak Cartons Ltd. Carrier carton. 3,034,682, 5–15–62, Cl. 220—105.

Curran, Marie: *See*—
Fulco, Virginia L., and Curran. 3,034,515.

Curran, Robert E.: *See*—
Lawall, Adam, and Sorsa. 3,041,078.
Sorsa, George, and Curran. 3,042,418.

Curran, Robert J.: *See*—
Ferris, Ernest A., and Curran. 3,019,873.

Currant, Robert J., to Borg-Warner Corp. One-way clutch. 3,064,776, 11–20–62, Cl. 192—45.

Currant, Jack, J. J. R. Gent, and D. N. Hunter, to D. Napier & Son Ltd. Surface layers and methods of applying viscous fluids to surfaces. 3,038,822, 6–12–62, Cl. 117—217.

Currant, Jack, J. J. R. Gent, and D. N. Hunter, to D. Napier & Son Ltd. Methods of applying viscous fluids to surfaces. 3,038,823, 6–12–62, Cl. 117—227.

Currey, Charles, and R. L. Freeman, to A. C. Nielsen Co. Method and apparatus for automatically determining the listening habits of wave signal receiver users. 3,056,135, 9–25–62, Cl. 346—37.

Currey, Charles, A. C. L. Brown, D. W. Holbrook, G. K. Truesdale, and R. L. Freeman, to A. C. Nielsen Co. System for determining the listening habits of wave signal receiver users. 3,070,798, 12–25–62, Cl. 346—37.

Currey, Charles F., to Canadian Westinghouse Co., Ltd. Silicon diode protective circuit. 3,023,353, 2–27–62, Cl. 321—12.

Currey, Charles H.: *See*—
Freeman, Robert L., and Currey. 3,058,065.

Currie, Charles H., and T. A. Elliott, to Georgia Tech Research Institute. High-speed scanning type sorter. 3,028,960, 4–10–62, Cl. 209—111.5.

Currie, Courtland B., and H. M. Morgan, to Minneapolis-Honeywell Regulator Co. Manifold valve. 3,020,921, 2–13–62, Cl. 137—66.

Currie, Frank S., and W. A. Gueffroy, to American Can Co. Can seaming mechanism. 3,025,814, 3–20–62, Cl. 113—22.

Currie, Grover C., Jr.: *See*—
Chidsey, Francis A., Jr., and Currie. 3,037,334.
Chidsey, Francis A., Jr., and Currie. 3,064,404.

Currie, Grover C., Jr., and D. E. Conrades, to Container Corp. of America. Can packing apparatus. 3,032,945, 5–8–62, Cl. 53—48.

Currie, William E., to Parker-Hannifin Corp. Flareless tube coupling. 3,055,684, 9–25–62, Cl. 285—342.

Currier, Edwin L., Jr., and J. H. Nicklas, to United States of America, Atomic Energy Commission. Nuclear reactor fuel-breeder fuel element. 3,049,486, 8–14–62, Cl. 204—193.2.

Currier, Edwin L., Jr., J. H. Nicklas, and C. A. Coombs, to United States of America, Atomic Energy Commission. Method and means for supporting reactor fuel containers in an assembly. 3,068,163, 12–11–62, Cl. 204—193.2.

Currier, Everett W., to American Air Filter Co., Inc. Method of making glass fiber web. 3,031,360, 4–24–62, Cl. 156—167.

Currier, Raymond R.: *See*—
Anderson, Julius, and Currier. 3,056,645.

Currier, Robert F.: *See*—
Skotowski, Joseph L., and Currier. 3,025,542.

Curry, Bennett C. Vandal resistant parking meter housing. 3,026,022, 3–20–62, Cl. 232—1.

Curry, Bruce R.: *See*—
Panning, Martin H., and Curry. 3,068,891.
Panning, Martin H., and Curry. 3,068,892.

Curry, Cecil B., J. W. Haley, and J. C. Theller, to Owens-Illinois Glass Co. Manufacture of paper. 3,049,467, 8–14–62, Cl. 162—55.

Curry, Dean L.: *See*—
Lough, Merlin E., and Curry. 3,041,494.

Curry, Malcolm, to The American Thread Co. Spool treating apparatus. 3,019,943, 2–6–62, Cl. 221—263.

Curry, Risden H. Valve assembly. 3,068,899, 12–18–62, Cl. 137—623.

Curry, Truman M., to Boeing Airplane Co. Strain gauge balances. 3,019,643, 2–6–62, Cl. 73—147.

Curtice, Jay S.: *See*—
Young, David W., and Curtice. 3,049,493.

Curtin-Hebert Co., Inc.: *See*—
Gursky, Henry D. 3,060,646.

Curtin, John L.: *See*—
Curtin, Agis I., Read, and Curtin. 3,063,339.

Curtin, Leonard S.: *See*—
Fake, Harry B., and Curtin. 3,064,599.

Curtin, Richard L., E. A. Sowell, and B. L. Scallet, to Anheuser-Busch, Inc. Starch product and method of making same. 3,066,056, 11–27–62, Cl. 106—213.

Curtin, Richard L., E. A. Sowell, and B. L. Scallet, to Anheuser-Busch, Inc. Starch product and method of making same. 3,066,037, 11–27–62, Cl. 106—213.

Curtis Automotive Devices, Inc.: *See*—
Curtis, Russell R. 3,050,262.
Osburn, Albert R. 3,052,094.

Curtis, Charles C., to Owens-Corning Fiberglas Corp. Apparatus for melting heat softenable mineral material. 3,020,324, 2–6–62, Cl. 13—6.

Curtis, Charles R., to AMP Inc. Means for connecting multiconductor cables. 3,034,089, 5–8–62, Cl. 339—49.

Curtis Companies Inc.: *See*—
Wrightfield, Ralph C. 3,027,629.

Curtis, Daniel L.: *See*—
May, Michael, and Curtis. 3,026,500.

Curtis, Daniel L., to Hughes Aircraft Co. Information position identifying system. 3,039,084, 6–12–62, Cl. 340—174.1.

Curtis-Electro Lighting, Inc.: *See*—
Tillson, Edwin D., and Krok. 3,043,951.

Curtis, Gerald J. Drain for boats. 3,049,088, 8–14–62, Cl. 114—197.

Curtis, Gerald J. Apparatus for controlling the motion of boats. 3,058,442, 10–16–62, Cl. 114—66.5.

Curtis, Gerald R.: *See*—
Kyle, James C., and Curtis. 3,056,934.

Curtis, Harold F. Portable and adjustable charcoal grill. 3,018,771, 1–30–62, Cl. 126—25.

Curtis, Harold S. and J. C., J. M. Divola, L. H. Maletz, G. W. Morris, and R. P. Schiltz, to Douglas Aircraft Co., Inc. Bulkhead seal for movable control element. 3,048,356, 8–7–62, Cl. 244—129.

Curtis, John T., to Whirlpool Corp. Home appliance. 3,015,125, 1–2–62, Cl. 16—82.

Curtis, Leslie R. Method of inserting double page illustrations in books and magazines. 3,061,850, 11–6–62, Cl. 11—1.

Curtis, Lyda D., to Continental Can Co., Inc. Dispensing pump for fluids. 3,029,742, 4–17–62, Cl. 103—148.

Curtis Mfg. Co.: *See*—
Hunter, Robert C. 3,053,307.
Pelouch, James J. 3,060,900.

Curtis, Myron S., to The Warner & Swasey Co. Single point thread attachment. 3,023,631, 3–6–62, Cl. 74—424.8.

Curtis, Myron S., to Warner & Swasey Co. Memory wheel. 3,026,743, 3–27–62, Cl. 74—568.

Curtis Office Partition Co., Inc.: *See*—
Curatolo, Frank. 3,027,214.

Curtis, Omer E., Jr., to Allied Chemical Corp. Preparation of polyurethane foam from alkyl polyester resin and a toluene diisocyanate and 1,2,6-hexanetriol adduct. 3,020,249, 2–6–62, Cl. 260—2.5.

Curtis, Ralston, and G. F. Probandt, to Stauffer Chemical Co. Method of combatting weeds. 3,063,824, 11–13–62, Cl. 71—2.7.

Curtis, Reid H., to Motorola, Inc. Voltage regulator for generators. 3,069,616, 12–18–62, Cl. 322—25.

Curtis, Russell H.: *See*—
Bauer, Jordan V. 3,025,963.

Curtis, Thomas E.: *See*—
Bridges, Ronald P., and Curtis. 3,026,391.

Curtiss, Charles J.: *See*—
Shaw, Arnold E. 3,067,499.

Curtiss, Lawrence M., to The Thomas & Betts Co. Electric connector for interlocking armor cable. 3,052,748, 9–4–62, Cl. 174—51.

Curtiss-Wright Corp.: *See*—
Adams, Donald B., and Sullivan. 3,024,606.
Alcock, Norman Z., and Leighton. 3,027,459.
Auerbach, Albert A., Berezin, Lubkin, and Shaw. 3,017,610.
Bacon, John P. 3,028,752.
Barnes, Lell E. 3,066,741.
Baxter, Donald J., and Hungerford. 3,030,931.
Bentele, Max. 3,062,435.
Bonhomme, Francois R. 3,023,789.
Brewer, Thomas L., Hall, and Chewey. 3,015,936.
Burns, William E. 3,019,664.
Commins, James A. 3,026,414.
Cook, Edward G., and Shepley. 3,021,706.
Cook, Edward G., Tibolla, and Foundos. 3,019,637.
Cottone, Daniel T. 3,068,977.
Daymon, Deall. 3,028,856.
Doerries, George H. 3,015,973.
Doerries, George H., and Speir. 3,067,626.
Ederer, Norbert. 3,026,038.
Foster, Tom, and Howald. 3,017,159.
Frantz, William. 3,028,748.
Fuller, John L., Hungerford, and Wickline. 3,023,828.
Grudin, Daniel. 3,030,052.
Hinka, Theodore. 3,062,484.
Hine, Edward K. 3,020,007.
Hine, Edward K. 3,037,207.
Howald, Werner E. 3,016,700.
Hungerford, Philip C., Jr., Tomko, and Neff. 3,026,739.
Hurley, Roy T., and Agni. 3,066,753.
Johns, James F. 3,029,743.
Kalil, Emil O. 3,061,912.
Klatchko, George A. 3,022,660.
Kumm, Emerson L., and Black. 3,025,036.
Liantonio, Vito, and Minnich. 3,021,859.
Lovins, Gerald H. 3,029,666.
Merlub-Sobel, Menahem. 3,067,047.
Milstead, Darrell. 3,027,625.
Samson, Ralph L. 3,020,649.
Schlott, Heinz H. 3,024,138.
Schneyer, Raymond I., and Adkins. 3,023,724.
Simpson, Duncan W., and Dawson. 3,015,894.
Sollinger, Ferdinand C. 3,024,600.
Spitz, Theodore S., Zahner, and Samson. 3,021,516.
Sternberg, Marvin, and Neu. 3,016,697.
Tiedeman, Robert K., and Bentley. 3,065,833.
Triffleman, Bernard H. 3,070,436.

Curtiss-Wright Corp., Propulsion Products Division: *See*—
Shapiro, Henry. 3,058,339.

Cusack, Joseph E., to Westmoreland Metal Mfg. Co. Picket fence. 3,067,985, 12–11–62, Cl. 256—22.

Cushing, Donald S.: *See*—
Guth, Lauren W., and Cushing. 3,067,759.

Cushing, Donald S., to General Electric Co. Dishwashing machine and electric control circuit for appliances. 3,029,825, 4–17–62, Cl. 134—57.

Cushing, Donald S., to General Electric Co. Detergent cup trip mechanism. 3,062,412, 11–6–62, Cl. 222—166.

Cushman, Clifford E.: *See*—
Wrighton, Robert J., and Cushman. 3,016,760.
Wrighton, Robert J., and Cushman. 3,016,761.

Cushman, Clifford E., and R. J. Wrighton, to Pacific Scientific Co. Safety harness device. 3,018,065, 1–23–62, Cl. 242—107.4.

Cushman, Clifford E., and R. J. Wrighton, to Pacific Scientific Aeroproducts. Safety harness device. 3,064,920, 11–20–62, Cl. 242—107.4.

Cushman, Walton W. Motive powered or gravity bearingless conveyor. 3,019,885, 2–6–62, Cl. 198—127.

Cushman, Walton W. Reusable combat expendable container for gasoline or water. 3,028,986, 4–10–62, Cl. 217—3.

Cusi, Dante S. Comminuting method and apparatus. 3,069,102, 12–18–62, Cl. 241—195.

Cusic, John W., and R. W. Hamilton, to G. D. Searle & Co. N - (aminoalkylcarbamoylpiperidinoalkyl) phenothiazines. 3,055,891, 9–25–62, Cl. 260—243.

Cusic, John W., and R. W. Hamilton, to G. D. Searle & Co. Derivatives of 1-(diarylhydroxyalkyl) piperidine-carboxamides and hydrazides. 3,061,609, 10–30–62, Cl. 260—294.

Cusick, Herman D. Pipe tapering tool. 3,020,787, 2–13–62, Cl. 77—73.

Cusick, Martin E.: *See*—
Wedlake, Roy E. 3,028,643.

Cuskie, Herman C.: *See*—
Bajer, Jacques, and Cuskie. 3,061,301.

Custers, Jan F. H., H. B. Dyer, B. W. Senior, and P. T. Wedepohl, to Adamant Laboratories (Proprietary) Ltd. High-pressure die. 3,061,877, 11–6–62, Cl. 18—16.5.

Custin, Thomas G., and J. Smith, to General Electric Co. Visual receiver limiter circuit. 3,031,623, 4–24–62, Cl. 328—171.

Custis, Irving H.: *See*—
Hallow, William C., Lion, Kranc, Custis, and Scutti. 3,032,301.

Custom Plastics, Inc.: *See*—
Fanning, Samuel P., Jr. 3,058,186.

Cutaia, Alfred, and R. J. Harrington, to International Business Machines Corp. Stacking device. 3,052,468, 9–4–62, Cl. 271—71.

Curtis, Jimmie C.: *See*—
Curtis, Harold S. and J. C., Divola, Maletz, Morris, and Schiltz. 3,048,556.

Curtis, John C., to Joy Mfg. Co. Crawler with independently tiltable tread frames. 3,045,771, 7–24–62, Cl. 180—9.5.

Curtis, John C., and T. A. Parssinen, to Joy Mfg. Co. Dual rotation for rock drills. 3,044,448, 7–17–62, Cl. 121—7.

Curtis Mfg. Co.: *See*—
Pelouch, James J. 3,036,662.

Curtis 1000, Inc.: *See*—
Clegg, Frank G. 3,043,493.

Curtis, Ralph J., and C. F. Nixon, to General Motors Corp. Blade shrouding. 3,031,955, 7–3–62, Cl. 253—39.

Curtis, Richard A., and J. D. Robbins. Dry cleaner apparatus. 3,035,428, 5–22–62, Cl. 68—18.

Curtis, Roger C.: *See*—
Roberts, Frederick W., Jones, Di Mattia, and Curtis. 3,051,795.

Curtis, Roger C., and F. W. Roberts, to Dictaphone Corp. Power supply for portable dictating machine and the like. 3,047,785, 7–31–62, Cl. 318—139.

Curtis, Russell R., to Curtis Automotive Devices, Inc. Nozzle for production of fog or mist. 3,050,262, 8–21–62, Cl. 239—400.

Curtiss-Electro Lighting, Inc.: *See*—
Cahill, William D. 3,033,979.

Curtiss-Wright Corp.: *See*—
Belli, Albert J., and Horn. 3,048,506.
Bentele, Max. 3,033,180.
Bevis, George E., Hungerford, and Neff. 3,039,420.
Bonhamme, Francois R. 3,042,895.
Carlson, Phillip G., Jr. 3,038,301.
Chillson, Charles W. 3,036,428.
Chillson, Charles W. 3,040,555.
Chillson, Charles W. 3,044,786.
Chillson, Charles W. 3,048,743.
Daymon, Deall. 3,038,463.
Eichler, Jack H. 3,050,765.
Embree, John M. 3,032,983.
Ferri, Antonio. 3,041,827.
Foster, Tom, Jaklitsch, Mayr, and Walker. 3,048,365.
Gams, Theodore C., and Kiefer. 3,044,725.
Hall, John L., Schreiber, and Cushman. 3,044,312.
Hatch, Donald M. 3,035,630.
Henry, Thomas R., and Soriero. 3,038,331.
Howald, Werner E., and De Feo. 3,048,376.
Klatchko, George A. 3,044,291.
Knowles, Douglas W. 3,047,936.
Loos, Robert A., and Johnson. 3,038,999.
Mitchell, Hugh A., Furon, and Modispacher. 3,036,151.
Moulton, Lloyd J. 3,051,445.
Nielsen, Peer D. 3,048,703.
Oldenburger, Rufus. 3,051,138.
Perryman, John S. 3,048,050.
Richardson, Harry L. 3,048,047.
Sacchini, Columbus R., and Tomko. Re. 25,229.
Samson, Ralph L. 3,036,303.
Stoddard, Glenn G. 3,047,827.
Tiedeman, Robert K. 3,044,558.
Weida, Robert L., and Wolf. 3,042,902.
Young, Merrill A., and Erlenbach. 3,050,979.
Zinn, Walter H. 3,049,484.

Cushing, Donald S., to General Electric Co. Two-way valveless pump. 3,040,663, 6–26–62, Cl. 103—2.

Cushing, Paul J., Sr., to Hydraulic Dredging Co., Ltd. Spud well for dredges. 3,050,880, 8–28–62, Cl. 37—73.

Cushman Foundry, Inc.: *See*—
Cushman, Ralph A. 3,033,131.

Cushman, Maurice E.: *See*—
Hall, John L., Schreiber, and Cushman. 3,044,312.

Cushman, Ralph A., to Cushman Foundry, Inc. Mold and mold board construction for candy machines. 3,033,131, 5–8–62, Cl. 107—3.
Cushman, Walton W. Fluid pipe joint or coupling. 3,033,-594, 5–8–62, Cl. 285—97.
Cushman, Walton W. Side-loading counterbalanced industrial lift truck. 3,048,293, 8–7–62, Cl. 214—730.
Cusick, Charles S., W. R. Schwab, and R. V. Lange, to Pittsburgh Plate Glass Co. Surfacing runner. 3,041,798. 7–3–62, Cl. 51—195.
Custom Metal Products Corp.: *See*—
Rehnberg, Glenn R. and P. E. 3,043,604.
Custom Polymers, Inc.: *See*—
Stark, Fred J. 3,051,673.
Cuthbertson, George R., and C. F. Engstrom, to United States Rubber Co. Method for balancing pneumatic tires and the articles produced thereby. 3,048,211, 8–7–62, Cl. 152—330.
Cutlas Tool and Mfg. Co.: *See*—
Lloyd, James R. 3,017,207.
Cutler, Burton: *See*—
Landee, Robert W., and Cutler. 3,017,628.
Cutler, Cassius C., to Bell Telephone Laboratories, Inc. Stabilization of earth satellite repeaters. 3,048,350, 8–7–62, Cl. 244—1.
Cutler, Cassius C., to Bell Telephone Laboratories, Inc. Horn radiator for spherical reflector. 3,055,004, 9–18–62, Cl. 343—781.
Cutler, Cassius C., to Bell Telephone Laboratories, Inc. Space satellites for use as radio system repeaters. 3,058,106, 10–9–62, Cl. 343—100.
Cutler, Cassius C., to Bell Telephone Laboratories, Inc. Remoto attitude control of earth satellites. 3,060,425, 10–23–62, Cl. 343—112.
Cutler, Cassius C., and J. R. Pierce, to Bell Telephone Laboratories, Inc. Stabilization of earth satellite repeaters. 3,057,579, 10–9–62, Cl. 244—1.
Cutler, Charles R., to Christensen Diamond Products Co. Apparatus for resharpening diamond drill bits. 3,044,219, 7–17–62, Cl. 51—15.
Cutler, Earl F. Road surfacing. 3,066,582, 12–4–62, Cl. 94—39.
Cutler, Frank A., Jr., and J. M. Chemerda, to Merck & Co., Inc. 16-alkyl-3-hydroxy-9(11)-pregnen-20-one compounds and the 3-lower alkyl esters thereof. 3,067,195, 12–4–62, Cl. 260—239.55.
Cutler, Hall W., ½ to M. McCool. Stretcher brace. 3,028,-858, 4–10–62, Cl. 128—84.
Cutler-Hammer, Inc.: *See*—
Brand, William D., Byrnes, and Montgomery. 3,055,479.
Brand, William D., and Montgomery. 3,034,634.
Brown, Harry W. 3,051,803.
Byrnes, Richard J. 3,036,691.
Byrnes, Richard J. 3,058,565.
Byrnes, Richard J., Eck, Robbins, and Sadowski. 3,058,-567.
Charbonneau, Allan P. 3,040,842.
Close, Richard N. 3,065,420.
Cox, Irvin W. 3,023,348.
Cox, Irvin W. 3,042,842.
Davis, Charles C., and Robbins. 3,026,385.
Defandorf, John L., Hackbarth, Kraus, and Sywulka. 3,066,244.
Dries, Jerome F. 3,016,440.
Elliot, William H. 3,032,690.
Fath, Douglas W. 3,026,460.
Fath, Douglas W., and Smith. 3,016,483.
Fath, Douglas W., and Smith. 3,034,033.
Ferk, Lawrence A., and Kuhn. 3,057,980.
Fischer, Paul M. 3,017,554.
Fischer, Paul M., and Simson. 3,036,683.
Greening, Donald J., Peterson, and Smith. 3,026,464.
Greening, Donald J., and Smith. 3,021,466.
Greening, Donald J., and Smith. 3,047,742.
Greenleaf, Francis D., MacIsaac, and Brey. 3,059,310.
Howdle, Frederic E., and Schmidt. 3,027,075.
Hults, Harold W. 3,035,134.
Hults, Harold W. 3,041,430.
Hults, Harold W. 3,047,682.
Hyink, Roy. 3,022,449.
Hyink, Roy. 3,052,959.
Kitscha Hector. 3,050,706.
Koenig, Martin F. 3,037,153.
Kraschinsky, Theodore, Jr., and Lutsch. 3,062,521.
Larkin, Robert E. 3,038,981.
Lillquist, Arvid E. 3,043,990.
Loeffler, John W. 3,027,817.
Lubkin, Yale J. 3,054,055.
Miles, Raymond C., and Rubenson. 3,049,978.
Newman, John M., and Posselt. 3,017,555.
Peterson, Norman L., and Smith. 3,047,729.
Philbin, James P., and Finnegan. 3,045,820.
Philbin, James P., and Salzer. 3,046,535.
Posselt, Edward J. 3,059,160.
Rauenbuehler, John. 3,053,376.
Richter, Walther. 3,028,553.
Richter, Walther, and Swinehart. 3,059,176.
Rouse, William H. 3,026,744.
Schmidt, Edwin X., and Severson. 3,029,640.
Seeger, Edwin W. 3,016,434.
Torn, Lawrence J., and Philbin. 3,046,533.
Cutler, Ivan B., to V. F. Ostler. Calcium oxide refractory and process of producing same. 3,026,211, 3–20–62, Cl. 106—58.
Cutler, Janice A.: *See*—
Coler, Myron A., Cutler, and Louis. 3,025,257.
Cutler, Leonard S., A. S. Bagley, and L. N. Bodily, to Hewlett-Packard Co. Proportional temperature controller. 3,040,-158, 6–19–62, Cl. 219—20.
Cutler, Morris, and B. J. Tamarin; said Cutler assor. to said Tamarin. Container closure. 3,057,532, 10–9–62, Cl. 229—17.
Cutler, Robert T. Electrical socket. 3,058,084, 10–9–62, Cl. 339—50.
Cutler, Roger W. Method for treating woven fabric. 3,029,-492, 4–17–62, Cl. 26—68.
Cutrera, Dominick. Method of preparing boned whole fowl and product. 3,057,006, 10–9–62, Cl. 17—45.
Cutrin, Leonard S.: *See*—
Fake, Harry B., and Cutrin. 3,025,544.
Cutrona, Joseph J., Jr. Hair spray shields. 3,041,624, 7–3–62, Cl. 2—11.
Cutsogeorge, George A., L. V. Hebenstreit, and W. J. Spaven, to Specialties Development Corp. Electrical network automatically responsive to a change in condition. 3,038,106, 6–5–62, Cl. 317—148.5.
Cutter Cravat, Inc.: *See*—
Hirsch, Julius A., and Small. 3,019,445.
Cutter Laboratories: *See*—
Beacham, Robert C. 3,042,038.
Cutter, Paul R.: *See*—
Dasch, Lawrence, and Cutter. 3,066,104.
Cutting Room Appliance Corp.: *See*—
Theodosion, Emmanuel. 3,067,996.
Cutts, Richard M. Choke attachment for shotguns. 3,045,379, 7–24–62, Cl. 42—79.
Cvetko, Henry J., and C. J. Chapin, to The Astatic Corp. Method of assembly of phonograph pickup cartridges. 3,017,467, 1–16–62, Cl. 179—100.41.
Cvikl, Ernst, and O. Nerath. Method of manufacturing welded triangular lattice girder. 3,026,602, 3–27–62, Cl. 29—155.
Cyba, Henry A., to Universal Oil Products Co. Stabilization of hydrocarbons. 3,018,173, 1–23–62, Cl. 44—71.
Cyba, Henry A., to Universal Oil Products Co. Condensation product of a monoalkanolamine with the reaction product of a terpene and an α,β-unsaturated polycarboxylic acid, anhydride or ester thereof. 3,043,789, 7–10–62, Cl. 260—24.
Cyba, Henryk A., to Universal Oil Products Co. Hydrocarbon oil composition. 3,017,357, 1–16–62, Cl. 252—32.5.
Cyba, Henryk A., to Universal Oil Products Co. Hydrocarbon oil composition. 3,017,360, 1–16–62, Cl. 252—34.
Cyba, Henryk A., to Universal Oil Products Co. Hydrocarbon oil composition. 3,017,362, 1–16–62, Cl. 252—51.5.
Cyba, Henryk A., to Universal Oil Products Co. Polyolefins containing 4,4'- and 2,4'-dialkylaminodiphenyl ethers as antioxidants. 3,063,962. 11–13–62, Cl. 260—45.9.
Cybriwsky, Alexander, and G. L. Hager, to Reynolds Metals Co. Method of multi-coloring sealed anodized aluminum. 3,016,293. 1–9–62, Cl. 41—41.
Cycle Equipment Co.: *See*—
Keesling, Thomas B. 3,033,483.
Keesling, Thomas B. 3,045,941.
Cyclo-Magic, Inc.: *See*—
Kotecki, Stanley F. 3,042,787.
Cyclomatic Freezing Systems, Inc.: *See*—
Polk, Isaac H. 3,024,521.
Cygan, Stanley J., to Poster Products, Inc. Display and support fixture and clip. 3,045,961, 7–24–62, Cl. 248—223.
Cyphert, Henry. Device for unloading cylindrical objects. 3,042,231, 7–3–62, Cl. 214—77.
Cypser, Rudolph J., J. V. Harrington, R. C. Hopkins, B. Housman, R. C. Jeffrey, and D. C. Ross, to Research Corp. Digital data transmission system. 3,056,110, 9–25–62, Cl. 340—172.5.
Cyr, Gilman N.: *See*—
Bernstein, Harris B., and Cyr. 3,025,217.
Cyr, Gilman N., and H. B. Bernstein, to Olin Mathieson Chemical Corp. Gelatin adhesive pharmaceutical preparations. 3,029,188, 4–10–62, Cl. 167—60.
Cyr, Joseph W., to H. C. Baxter & Bro. Manufacture of potato products. 3,056,683, 10–2–62, Cl. 99—207.
Cyril Bath Co., The: *See*—
De Marco, Robert F., and Nasvytis. 3,068,928.
Matthews, Peter P. 3,034,560.
Nasvytis, Pius J. 3,017,916.
Cyrus, Alva E., to Westinghouse Electric Corp. Drawer support structure for refrigerator cabinet. 3,038,774, 6–12–62, Cl. 312—350.
Czapar, Frank. Fat and bone dust remover. 3,061,856, 11–6–62, Cl. 15—3.1.
Czapar, William A., to Stewart-Warner Corp. Steering wheel clamping for vehicles. 3,066,368, 12–4–62, Cl. 24—81.
Czarnecki, Adolph, to Anchor Steel and Conveyor Co. Split shaft trolley construction for power-free conveyor system. 3,033,128, 5–8–62, Cl. 105—155.
Czarnecki, Casimer M., to Eddington Metal Specialty Co. Nozzle construction. 3,032,279, 5–1–62, Cl. 239—464.
Czarnecki, Eli D. Chord organ. 3,063,327, 11–13–62, Cl. 84—351.
Czech, Clifford F., to McGraw-Edison Co. Washing machines. 3,021,997, 2–20–62, Cl. 233—23.

Czech, Clifford F., to McGraw-Edison Co. Lint trap. 3,041,-864, 7–3–62, Cl. 68—18.
Czech, Maximilian: *See*—
Frensch, Heinz, Goebel, and Czech. 3,060,085.
Czenkusch, Edward L.: *See*—
Wilson, Lawrence V., Jr., and Czenkusch. 3,028,375.
Czepiel, Thomas P., to Scott Paper Co. Aqueous paper furnish comprising a de-aerated disintegrated urea-formaldehyde resin foam and process of making same. 3,038,867, 6–12–62, Cl. 260—2.5.
Czerbina, Anatoly G.: *See*—
Kolenko, Evgeny A., and Czerbina. 3,045,341.
Czerkas, Alfred E., to Eastman Kodak Co. Method and apparatus for prevention of slug formation in the casting of film support and sheeting. 3,032,817, 5–8–62, Cl. 18—15.
Czernec, Michael, and A. Morgentaler. Box drill jig. 3,033,-061, 5–8–62, Cl. 77—62.
Czeropski, Robert S., C. Nocek, and B. Burachinsky, to Interchemical Corp. Method of typographic printing. 3,031,-961, 5–1–62, Cl. 101—426.
Czerwonka, Lawrence J., and R. D. Rivers, to American Air Filter Co., Inc. Electrostatic precipitators. 3,018,846, 1–30–62, Cl. 183—7.
Czerwonka, Lawrence J., and R. F. Logsdon, to American Air Filter Co., Inc. Filtering medium and method of making the same. 3,019,127, 1–30–62, Cl. 117—33.
Czipott, Akos Z., to Dresser Industries, Inc. Photoconductive device and method of producing same. 3,032,731, 5–1–62, Cl. 338—19.
Czirfusz Miklos, to Licencia Találmányokat Értékesitö Vallalat. Method for the continuous purification of lime milk used in sugar mils. 3,042,209, 7–3–62, Cl. 210—73.
Czubachowski, Zygmunt J., to The Caldwell Mfg. Co. Combination weatherstrip and sash balance and various adjustment means. 3,21,578, 2–20–62, Cl. 20—52.2.
Czubak, Albin S., to Micromatic Hone Corp. Honing tool with renewable tool holder slot. 3,064,397, 11–20–62, Cl. 51—184.3.
Czulak, Joseph, to Commonwealth Scientific and Industrial Research Organization. Cheese-curd fusing machine. 3,060,575, 10–30–62, Cl. 31—47.
Czulius, Werner, to Siemens-Schuckertwerke Aktiengesellschaft. Measurement method and apparatus. 3,023,360, 2–27–62, Cl. 324—68.
Czyryk, Chester S., and D. E. Hermanson, to Stewart-Warner Corp. Piezo-electric power source assembly. 3,030,527, 4–17–62, Cl. 310—8.7.
DAG Mfg. Co.: *See*—
Smith, Arthur W. 3,060,459.
D.B.A., Societe Anonyme: *See*—
Furia, Andre, and Chesneaux. 3,064,426.
Gancel, Pierre, and Servier. 3,059,731.
DCA Food Industries Inc.: *See*—
Block, Zenas, Hunter, and Hodges. 3,044,180.
Markakis, Pericles, Freeman, and Harte. 3,027,258.
D & D Co., Inc.: *See*—
Dowling, Robert W., and del Riccio. 3,015,252.
Dowling, Robert W., and del Riccio. 3,062,098.
D & F Engineering, Inc.: *See*—
Ferm, Carl W. 3,064,849.
DK Mfg. Co.: *See*—
Soderberg, Victor L. 3,062,227.
D-M-E Corp.: *See*—
Halward, Folke. 3,025,570.
D. & W. Mfg. Co., Inc.: *See*—
Brasty, Joseph. 3,064,933.
Daams, Jasper: *See*—
Bijloo, Johan D., Uhlenbroek, and Daams. 3,050,442.
Koopman, Harmannus, and Daams. 3,027,248.
Daane, Robert A., to Beloit Iron Works. Fluid filter mechanism. 3,019,903, 2–6–62, Cl. 210—108.
Daanen, Sylvester J., and T. H. Lutsey. Combined container and serving dish. 3,051,303, 8–28–62, Cl. 206—45.31.
Dabroski, Winifred C., to Johnson & Johnson. Pressure sensitive adhesive tape having release coating of composition of aldehyde or imide resin, sulphated or sulphonated wetting agent, and reaction product of monoene or diene monomers and carboxylic acid. 3,067,057, 12–4–62, Cl. 117—68.5.
Dabrowski, Jan, to United Merchants and Manufacturers, Inc. Dyeing and/or printing. 3,023,072, 2–27–62, Cl. 8—82.
Dacey, Ernest A., to Atwood Vacuum Machine Co. Automobile hood latch. 3,039,801, 6–19–62, Cl. 292—11.
Dacey, George C., to Bell Telephone Laboratories, Inc. Electron discharge devices employing secondary electron emission. 3,036,234, 5–22–62, Cl. 313—105.
Dacey, George C., to Bell Telephone Laboratories, Inc. Transistor having emitter reverse-biased beyond breakdown and collector forward-biased for majority carrier operation. 3,060,327, 10–23–62, Cl. 307—88.5.
Dacey, George C., C. A. Lee, and W. Shockley, to Bell Telephone Laboratories, Inc. Semiconductive device. 3,028,-655, 4–10–62, Cl. 29—25.3.
Dacey, George C., and R. L. Wallace, Jr., to Bell Telephone Laboratories, Inc. Modulated oscillator and low impedance diode construction therefor 3,063,023, 11–6–62, Cl. 332—29.
Dachkevitch, Vsevolod, to Commissariat a l'Energie Atomique. Safety device for appliances which perform successive programed operations. 3,035,130, 5–15–62, Cl. 200—47.
Daco Instrument Co.: *See*—
Cuches, John P. 3,039,027.
Wolff, Hanns H. 3,035,135.
Dacor Corp.: *See*—
Mitchell, Wallace F. 3,028,859.
Da Costa, Floriano P., Housing and sounding board for a stringed musical instrument. 3,034,391, 5–15–62, Cl. 84—192.
Da Costa, Harry, to Motorola, Inc. Leveling apparatus. 3,019,010, 1–30–62, Cl. 269—191.
Da Costa, Harry, to Motorola, Inc. Semiconductor dicing. 3,040,489, 6–26–62, Cl. 53—21.
Da Costa, Harry, to Motorola, Inc. Micromanipulator. 3,051,026, 8–28–62, Cl. 78—82.
Dadas, Gust A., to Pyronics, Inc. High sensitivity control device. 3,025,405, 3–13–62, Cl. 250—218.
Dadd, Morris V., to Johnson Products, Inc. Tappet with pressed fit push rod seat. 3,059,627, 10–23–62, Cl. 123—90.
D'Addieco, Alfred A., D. B. Lake, and S. E. Stephanou, to E. I. du Pont de Nemours and Co. Method of preparing monopersulfate composition containing the triple salt $KHSO_5 \cdot KSO_4 \cdot 2KHSO_4$. 3,041,139, 6–26–62, Cl. 23—114.
Dade Reagents Inc.: *See*—
Griffiths, James J., and Hobbs. 3,060,937.
Dadian, Lazarus H.: *See*—
Henke, Russell W., Brannon, Hellenberg, and Dadian. 3,057,161.
Dadras, Ally A., Changeable interior wall building construction. 3,055,061, 9–25–62, Cl. 20—1.
D'Adrian, Vincent L. D., to Flex-O-Lite Mfg. Corp. Large diameter high refractive index glass beads. 3,041,191, 6–26–62, Cl. 106—47.
Daffin, Douglas E., to Camco Inc. Well tool apparatus. 3,040,814, 6–26–62, Cl. 166—224.
Daffin Mfg. Co.: *See*—
Mast, Aquila D. 3,039,505.
Dafforn, Kenneth B., and K. C. Maholm, to Knapp-Monarch Co. Self-cleaning spray nozzle. 3,025,005, 3–13–62, Cl. 239—117.
Dafoe, Leslie R., to Pacific Car and Foundry Co. Vehicle seat. 3,039,820, 6–19–62, Cl. 297—308.
Dagens Nyheters Aktiebolag: *See*—
Skalquist, Karl S. A. 3,018,977.
Daggett, Byron G. Saw set apparatus. 3,020,784, 2–13–62, Cl. 76—63.
Daglish, Anthony F., R. Vonderwahl, and G. A. Tillotson, to J. R. Geigy, A.-G. Process for the production of 3,5-diaminopyrazine-2,6-dicarboxylic acid derivatives. 3,017,412, 1–16–62, Cl. 260—250.
Daglish, Anthony F., R. Vonderwahl, and G. A. Tillotson, to J. R. Geigy, A.-G. Detergent compositions containing a 3,5-diaminopyrazone-2,6-dicarboxylic acid derivative. 3,043,-780, 7–10–62, Cl. 252—117.
D'Agostini, Donato, to Blonder-Tongue Electronics. Scrambled television apparatus and method. 3,069,492, 12–18–62, Cl. 178—5.1.
D'Agostino, Jack V., and C. Rothenberg, to Sperry Rand Corp. Dual function antenna. 3,016,534, 1–9–62, Cl. 343—725.
Daguet, Jacques, to North American Philips Co., Inc. Single-sideband equipment for the transmission of speech signals. 3,024,312, 3–6–62, Cl. 179—15.
Dahl, Christian W.: *See*—
Egloff, William C., and Dahl. 3,037,582.
Dahl, Einar S., to Borg-Warner Corp. Fuel injection idle enrichment control mechanism. 3,064,636, 11–20–62, Cl. 123—140.
Dahl, Ernest A., and T. I. Humphreys, to United States of America, Navy. Gastube microwave RF modulator. 3,024,460, 3–6–62, Cl. 343—17.7.
Dahl, Frank L. Two-element hand tool. 3,034,550, 5–15–62, Cl. 145—64.
Dahl, George W., Co., Inc.: *See*—
Bosworth, Kenneth O., and Matheson. 3,026,896.
Slawson, Richard S. 3,043,325.
Dahl, Philip R.: *See*—
Bauer, Ernest A., and Dahl. 3,029,633.
Dahl, Philip R., to The Marquardt Corp. Gas turbine fuel control system. 3,046,739, 7–31–62, Cl. 60—39.28.
Dahl, Robert B.: *See*—
Beyer, Carlton E., and Dahl. 3,058,161.
Dawson, Robert H., and Dahl. 3,021,687.
Dahl, Robert R., and D. E. Miller, to The Dole Valve Co. Analog thermostat. 3,031,858, 5–1–62, Cl. 62—132.
Dahl, Robert R., H. L. Erickson, and F. S. Golden, to The Dole Valve Co. Unitized fluid control valve. 3,062,992, 11–6–62, Cl. 317—165.
Dahlbeck, Sven W.: *See*—
Pilo, Claes-Wilhelm, and Dahlbeck. 3,034,730.
Dahle, Charles J. Propulsion and steering unit for boats. 3,040,696, 6–26–62, Cl. 115—16.
Dahle, Edwin A., to General Motors Corp. Constant torque drum brake. 3,047,099, 7–31–62, Cl. 188—78.
Dahlgren, Fredrik A.: *See*—
Munck af Rosenschöld, John R., and Dahlgren. 3,034,030.
Dahlgren, Pore V., and K. E. Ericsson, to Max Sievert Aktiebolaget. Engine heater device. 3,070,154, 12–25–62, Cl. 158—125.
Dahlin, Bernard A., to Fort Howard Paper Co. Roll supports for towel cabinets. 3,059,982, 10–23–62, Cl. 312—39.
Dahlin, Bernard A., J. A. Rademacher, and E. A. Filipowicz, to Fort Howard Paper Co. Stop mechanism for roll towel dispensers. 3,045,885, 7–24–62, Cl. 226—130.

Dahlin, Clarence W. : *See*—
Janda, Robert J., and Dahlin. 3,030,973.
Dahlke, Edwin A. Carpet stretcher. 3,022,979, 2–27–62, Cl. 254—62.
Dahlke, Erwin : *See*—
Hartwig, Fritz, and Dahlke. 3,043,996.
Dahlke, Hugo E., to Gulton Industries, Inc. Flow measuring strain gauge transducers. 3,050,998, 8–28–62, Cl. 73—228.
Dahlman, Herbert C., R. L. Rozelle, and N. T. Amos, to Fairbanks, Morse & Co. Clutch assembly. 3,039,577, 6–19–62, Cl. 192—105.
Dahlman, Per O., to North Electric Co. Selective party line signaling system. 3,051,792, 8–28–62, Cl. 179—17.
Dahlstrom, Allan T., to Safeway Stores, Inc. Process of manufacturing dairy products. 3,017,274, 1–16–62, Cl. 99—116.
Dahlstrom, Donald A., to Process Engineers, Inc. Vortical type grip separator. 3,024,909, 3–13–62, Cl. 209—211.
Dahlstrom, Edward J. Colonic irrigator. 3,042,039, 7–3–62, Cl. 128—227.
Dahlstrom Metallic Door Co. : *See*—
Lindstrom, Elmer V. 3,034,184.
Dahlstrom, Richard L., and R. J. Wert, to E. I. du Pont de Nemours and Co. Yarn relaxation process using fluid jets. 3,069,836, 12–25–62, Cl. 57—157.
Dahme, Allen H. Supporting column for partitions. 3,066,774, 12–4–62, Cl. 189—38.
Dahms, James B., and B. P. Edmonds, to Pittsburgh Plate Glass Co. Solution mining method. 3,058,729, 10–16–62, Cl. 262—3.
Daiichi Seiyaku Co., Ltd. : *See*—
Miyatake, Kazuo, Okano, Toji, Miki, Sakashita, Oshima, and Kasahara. 3,023,147.
Okuda, Noriyuki, and Suzuki. 3,043,864.
Dailey, Donald E., to Mead Johnson & Co. Capsule dispenser. 3,042,257, 7–3–62, Cl. 221—309.
Dailey, Joseph J. : *See*—
Rosen, Carl G. A., and Dailey. 3,041,116.
Rosen, Carl G. A., and Dailey. 3,041,194.
Dailey, Manvel C., to Kaiser Gypsum Co., Inc. Building board. 3,017,305, 1–16–62, Cl. 154—87.
Dailey, Nelsa L. Compactly collapsible ironing table. 3,027,664, 4–3–62, Cl. 38—122.
Dailey, Robert F. : *See*—
Mackey, Eugene L., Bognar, and Dailey. 3,036,196.
Dailey, Vacell D., to Baldwin-Montrose Chemical Co., Inc. (Baldwin Division). Vacuum insertable strip. 3,040,393, 6–26–62, Cl. 20—69.
Dailey, W. D. : *See*—
Kelsey, Walter L. 3,047,874.
Dailey, William H., Jr. : *See*—
Huebler, Jack, Cone, Dailey, and Nesbitt. 3,024,015.
Dailey, William H., Jr., to Midland-Ross Corp. Combustion controls for metallurgical heating furnaces. 3,022,056, 2–20–62. Cl. 263—6.
Daily, Arthur M., and J. R. Woods, to CTS Corp. Modular electronic circuit device. 3,069,598, 12–18–62, Cl. 317—101.
Daimler-Benz Aktiengesellschaft : *See*—
Ahrens, Hermann H. F. 3,019,047.
Altmann, Werner E. 3,018,672.
Altmann, Werner E. 3,020,991.
Altmann, Werner E. 3,059,492.
Anders, Ulrich W. P. 3,058,490.
Barényi, Béla. 3,015,519.
Barenyi, Béla. 3,019,049.
Barenyi, Bela. 3,021,171.
Barenyi, Bela. 3,036,652.
Barenyi, Bela. 3,037,808.
Barényi, Béla. 3,061,341.
Barényi, Béla. 3,061,376.
Barenyi, Bela. 3,064,747.
Barényi, Béla. 3,068,039.
Barényi, Béla. 3,068,040.
Barényi, Béla. 3,068,041.
Barényi, Béla. 3,068,042.
Barenyi, Bela, and Renner. 3,047,330.
Beeskow, Bruno E. A. H. 3,035,666.
Beeskow, Bruno E. A. H. 3,045,789.
Behles, Franz G. F. 3,047,100.
Behles, Franz G. F. 3,047,284.
Behles, Franz G. F. 3,050,316.
Burckhardt, Manfred H. 3,054,307.
Düttmann, Peter. 3,025,025.
Eltze, Ulrich. 3,016,247.
Fiala, Ernst J. H. 3,016,101.
Fiala, Ernest J. H. 3,021,152.
Fiala, Ernst J. H. 3,024,037.
Fiala, Ernst J. H. 3,032,324.
Fiala, Ernst J. H. 3,032,349.
Fiala, Ernst J. H. 3,044,799.
Fiala, Ernst J. H. 3,047,180.
Fiala, Ernst J. H. 3,051,507.
Fiala, Ernst J. H. 3,068,022.
Fiala, Ernst J. H. 3,068,023.
Fiala, Ernst J. H., and Haselmann. 3,021,172.
Foerster, Hans-Joachim M., and Grabow. 3,040,672.
Foerster, Hans-Joachim M., and Hensel. 3,067,632.
Fritz, Martin. 3,064,496.
Gassmann, Johannes. 3,037,348.
Gassmann, Johannes. 3,037,349.
Gassmann, Johannes, and Maier. 3,035,560.
Geiger, Friedrich. 3,036,860.
Daimler-Benz Aktiengesellschaft : *See*—Continued
Geiger, Friedrich. 3,050,334.
Geiger, Friedrich. 3,065,021.
Geiger, Friedrich K. 3,053,567.
Göschel, Karl-Heinz R., and Lamm. 3,020,905.
Häcker, Walter E. 3,024,061.
Hartmann, Otto. 3,020,898.
Hensel, Werner R. E. 3,053,117.
Hoffmann, Heinrich. 3,020,900.
Hoffmann, Friedrich. 3,058,367.
Jurisch, Wilhelm. 3,064,421.
Kölle, Erwin. 3,044,830.
Lang, Otto. 3,039,447.
Limmer, Hans G. 3,064,994.
Lorenz, Otto. 3,051,259.
Maruhn, Herbert F. W. 3,024,041.
Mischke, Arthur O., and Burckhardt. 3,058,296.
Muller, Alfred H. 3,018,990.
Mueller, Alfred H. 3,020,899.
Mueller, Alfred H. 3,029,102.
Mueller, Alfred H. 3,050,932.
Müller, Alfred H. 3,054,469.
Müller, Josef. 3,024,040.
Müller, Josef. 3,064,749.
Muller, Josef, and van Winsen. 3,068,020.
Nallinger, Friedrich K. H. 3,023,593.
Nallinger, Friedrich K. H. 3,035,676.
Nallinger, Friedrich K. H. 3,037,476.
Nallinger, Friedrich K. H. 3,054,609.
Nallinger, Friedrich K. H. 3,054,624.
Neher, Eugen S. 3,064,422.
Neuerburg, Willi, Maehler, and Fiedler. 3,049,171.
Olbrich, Leopold. 3,067,579.
Quellmalz, Wolfram. 3,059,959.
Reiniger, Kurt. 3,023,981.
Reiniger, Kurt. 3,053,477.
Reiniger, Kurt. 3,064,923.
Scherenberg, Hans O. 3,047,101.
Scherenberg, Hans O., and Gassmann. 3,040,723.
Schöllhammer, Friedrich W., and Eltze. 3,051,191.
Schraivogel, Horst. 3,020,950.
Steinbrenner, Hans, and Muller. 3,029,385.
Stengelin, Adolf. 3,035,851.
Stengelin, Adolf. 3,044,262.
Stengelin, Adolf. 3,053,528.
Stump, Eugen. 3,031,900.
Stump, Eugen, and Strifler. 3,024,006.
Stump, Eugen, and Strifler. 3,051,506.
Van Winsen, Friedrich H. 3,068,032.
Weller, Helmut. 3,064,995.
Wilfert, Karl. 3,032,645.
Wilfert, Karl. 3,040,832.
Wilfert, Karl. 3,059,561.
Wilfert, Karl. 3,061,360.
Wilfert, Karl. 3,068,044.
Wilfert, Karl, and Fiala. 3,029,090.
Wirsching, Robert J. 3,067,688.
Wirsching, Robert J., and Conrad. 3,015,326.
Daimler, Berthold H., H. Elling, and R. Elssner, to American Enka Corp. Manufacture of viscose rayon. 3,038,778, 6–12–62, Cl. 18—54.
Dain, John, and E. B. B. Callick, to English Electric Valve Co. Ltd. Microwave cavity tuners utilizing reverse biased diodes. 3,039,064, 6–12–62, Cl. 331—83.
Dain, John, and E. B. B. Callick, to English Electric Valve Co., Ltd. Klystron Microwave oscillator with particular keying mean. 3,046,492, 7–24–62, Cl. 331—83.
Dairy Equipment Co. : *See*—
Luhman, George B., Jr. 3,030,032.
Dairymen's League Cooperative Association, Inc. : *See*—
Perini, Louis A., and Leber. 3,066,027.
Perini, Louis A., and Leber. 3,066,028.
Dairypak Inc. : *See*—
Gilbert,, Roy L. 3,053,153.
Daisey Mfg. Co. : *See*—
Daniel, Richard I. 3,030,708.
Dake, Norman W. Hand railing system. 3,021,115, 2–13–62, Cl. 256—65.
Dakin, D Frank. Collapsible saw horse. 3,040,834, 6–26–62, Cl. 182—186.
D'Alba, Anthony R. : *See*—
Bitzer, Melvin, and D'Alba. 3,017,651.
Dal Bianco, Bruno, and M. Scata, to International Standard Electric Corp. Multiple electromagnetic switch. 3,035,136, 5–15–62, Cl. 200—104.
Dal Bianco, Bruno, and M. Scata, to International Standard Electric Corp. Sealed contact device. 3,056,869, 10–2–62, Cl. 200—87.
Dal Bianco, Bruno, and M. Scata, to International Standard Electric Corp. Electrical switching device and method for making. 3,059,074, 10–16–62, Cl. 200—87.
D'Alcantara, Antonio V. M., to Ciba Ltd. Vigoureux printing rollers. 3,068,789, 12–18–62, Cl. 101—375.
Dale, Alan W., to Marconi's Wireless Telegraph Co. Ltd. Radar systems. 3,024,457, 3–6–62, Cl. 343—17.1.
Dale, Allan L., A. Orullian, and B. J. Pope, to Standard Oil Co. Control valve locking apparatus. 3,051,433, 8–28–62, Cl. 251—61.
Dale, Colin B., to Webcor, Inc. Phonograph. 3,023,009, 2–27–62, Cl. 274—10.
Dale, Freida, ½ to S. Dale. Machine for cutting wool from wool-covered skins. 3,039,166, 6–19–62, Cl. 26—15.

Dale, Ingvald, to Lamb Grays Harbor Co., Inc. Tray type scissors lift. 3,032,319, 5–1–62, Cl. 244—122.

Dale, Ingvald, and G. A. Mead, to Lamb Grays Harbor Co. Inc. Continuous layboy. 3,025,057, 3–13–62, Cl. 271—68.

Dale, Ingvald, and C. B. Lewis, to Lamb Grays Harbor Co., Inc. Fork lift type bale stacker. 3,055,514, 9–25–62, Cl. 214—6.

Dale, Jack K., and A. R. Hanze, to The Upjohn Co. Prednisolone sesquihydrate compositions. 3,062,712, 11–6–62, Cl. 167—53.

Dale, Johannes, to Union Carbide Corp. Separation of acyclic alpha or beta diol isomers. 3,053,880, 9–11–62, Cl. 260—462.

Dale, John M., to Dresser Industries, Inc. Quick-break maritime coupling. 3,056,613, 10–2–62, Cl. 285—3.

Dale, Lamar B.: *See*—
Christenson, George B., and Dale. 3,065,143.

Dale, Paul A.: *See*—
Fowler, Roland G., Larsen, Dale, and Garvey. 3,061,692.

Dale, Robert F., A. J. Backus, and E. J. Kezeli, to Red Star Yeast and Products Co. Active dry yeast rehydrator. 3,020,208, 2–6–62, Cl. 195—127.

Dale, Sadia: *See*—
Dale, Freida. 3,039,166.

Dale, Sheldon: *See*—
Roth, Ernest J., Dale, and Schwertl. 3,034,455.

Dale, Walter, to General Motors Corp. Retaining means. 3,045,499, 7–24–62, Cl. 74—102.

Dale, Walter, to General Motors Corp. Door check and hold-open. 3,051,983, 9–4–62, Cl. 16—82.

Dale, William J., to Automatex Co. Automatic drop-leaf stacker. 3,052,469, 9–4–62, Cl. 271—86.

Da Lee, William A., Inc.: *See*—
Da Lee, William W., and Thomas. 3,038,555.
Thomas, Harry W., and Da Lee. 3,044,572.

Da Lee, William W.: *See*—
Thomas, Harry W., and Da Lee. 3,044,572.

Da Lee, William W., and H. W. Thomas, to W. A. Da Lee Inc. Retractable safety landing for an access tube, 3,038,-555, 6–12–62, Cl. 182—83.

D'Alelio, Gaetano F., to Dal Mon Research Co. Aldehyde-triazinyl arsenic condensation products and method of making same. 3,017,380, 1–16–62, Cl. 260—45.3.

D'Alelio, Gaetano F., to Dal Mon Research Co. Method of preparing an olefin polymerization catalyst. 3,038,864, 6–12–62, Cl. 252—411.

D'Alelio, Gaetano F., to Dal Mon Research Co. Polymerization products of unsaturated aminotriazine. 3,047,531, 7–31–62. Channel. 260—45.4.

D'Alelio, Gaetano F., to Dal Mon Research Co. Triazinyl vinyl monomer, and polymer and copolymers thereof. 3,047,532, 7–31–62, Cl. 260—45.4.

D'Alelio, Gaetano F., to Dal Mon Research Co. Polymerization process. 3,049,526, 8–14–62, Cl. 260—93.7.

D'Alelio, Gaetano F., to Dal Mon Research Co. Polymer of triazinyl vinyl monomers. 3,050,496, 8–21–62, Cl. 260—45.4.

D'Alelio, Gaetano F., to Dal Mon Research Co. Polymerization products of unsaturated triazine derivatives. 3,053,796, 9–11–62, Cl. 260—45.4.

D'Alelio, Gaetano F., to Dal Mon Research Co. Polymerizable triazines and polymers thereof. 3,053,797, 9–11–62, Cl. 260—45.4.

D'Alelio, Gaetano F. to Dal Mon Research Co. Polymerizable triazines and polymers thereof. 3,053,798, 9–11–62, Cl. 260—45.4.

D'Alelio, Gaetano F., to Dal Mon Research Co. Polymerizable triazines and polymers thereof. 3,053,799, 9–11–62, Cl. 260—45.4.

D'Alelio, Gaetano F., to Dal Mon Research Co. Polymerizable triazines and products thereof. 3,053,812, 9–11–62, Cl. 260—78.

D'Alelio, Gaetano F., to Dal Mon Research Co. Catalytic process. 3,054,787, 9–18–62, Cl. 260—93.5.

D'Alelio, Gaetano F., to Dal Mon Research Co. Polymerization process. 3,054,788, 9–18–62, Cl. 260—94.3.

D'Alelio, Gaetano F., to Dal Mon Research Co. Homopolymers and copolymers of triazinyl vinyl monomers. 3,056,760, 10–2–62, Cl. 260—45.4.

D'Alelio, Gaetano F., to Dal Mon Research Co. Polymerization process. 3,056,770, 10–2–62, Cl. 260—94.3.

D'Alelio, Gaetano F., to Dal Mon Research Co. Catalytic process. 3,060,161, 10–23–62, Cl. 260—93.5.

D'Alelio, Gaetano F., to Dal Mon Research Co. (Aminobenzenesulfonylamino)-s-triazine derivatives. 3,061,605, 10–30–62, Cl. 260—239.7.

D'Alelio, Gaetano F., to Dal Mon Research Co. Polymer of triazinyl compounds. 3,062,774, 11–6–62, Cl. 260—45.4.

D'Alelio, Gaetano F., to Dal Mon Research Co. Polymers of triazinyl compounds. 3,062,775, 11–6–62, Cl. 260—45.4.

D'Alelio, Gaetano F. Metal-containing polymers and preparation thereof. 3,062,856, 11–6–62, Cl. 260—448.

D'Alelio, Gaetano F., to Dal Mon Research Co. Polymerization process. 3,065,217, 11–20–62, Cl. 260—93.7.

D'Alelio, Gaetano F., to Dal Mon Research Co. Condensation of aldehydes with triazinyl aryl sulfonic acid derivatives and process for preparing same. 3,068,190, 12–11–62, Cl. 260—45.2.

D'Alelio, Gaetano F., to Dal Mon Research Co. Polyolefin synthesis. 3,069,364, 12–18–62, Cl. 252—429.

Dales, George F. Thermostat. 3,066,206, 11–27–62, Cl. 200—138.

Daley, Dorothy M., ½ to M. M. Rogers. Shower curtain rod clothes rack. 3,025,969, 3–20–62, Cl. 211—86.

Daley, Horace S., to Specialties Development Corp. High-pressure container safety means. 3,038,627, 6–12–62, Cl. 220—3.

Daley, John L. S.: *See*—
Carmichael, Robert, and Daley. 3,042,734.

Daley, John L. S., to Union Carbide Corp. High pressure mechanical seal gasket. 3,068,313, 12–11–62, Cl. 136—133.

Daley, John L. S. and E. E. Leger, to Union Carbide Corp. Seal ring for a galvanic cell. 3,068,312, 12–11–62, Cl. 136—133.

Daley, Robert W., to Allegheny Ludlum Steel Corp. Electrode stub clamp. 3,046,319, 7–24–62, Cl. 13—14.

Daley, Roger J., to Bowser, Inc. Remote control system for a booster pump. 3,015,417, 1–2–62, Cl. 222—63.

Dalferes, Anthony W. Binder for office folder. 3,042,985, 7–10–62, Cl. 24—153.

Dalglish, Herbert F., to M. W. Gehan. Average temperature indicator. 3,015,954, 1–9–62, Cl. 73—341.

Dalglish, James B.: *See*—
Kappelmann, Benjamin O., and Dalglish. 3,015,928.

Dalglish, John, & Sons Ltd.: *See*—
Hill, Ian M. 3,020,620.

Dalin, George A. Condensing apparatus. 3,015,474, 1–2–62, Cl. 257—20.

Daline, Gordon. Sponge mop with remote compressing mechanism. 3,031,706, 5–1–62, Cl. 15—119.

Daline, Gordon. Method and apparatus for seasoning foods. 3,042,532, 7–3–62, Cl. 99—171.

Daline, Gordon. Easel type display container. 3,043,422, 7–10–62, Cl. 206—45.24.

Da-Lite Screen Co., Inc.: *See*—
Hudson, Gilford D., and Sayger. 3,033,599.

Dall, Albert H.: *See*—
Schroeder, Walter, and Dall. 3,018,697.

Dall, Albert H., and G. L. Grove, to The Cincinnati Milling Machine Co. Machine tool slide and mounting thereof. 3,046,704, 7–31–62. Cl. 51—103.

Dall, Albert H., and G. L. Grove, to The Cincinnati Milling Machine Co. Phaseout device for grinding machine. 3,060,-647, 10–30–62, Cl. 51—165.

Dall, Jes J.: *See*—
Biggins, Edward R., and Dall. 3,066,495.

Dall'Oglio, Giorgio, A. De Marsico, and G. Carnevali. Device for checking longitudinal registration on machines for performing repetitive operations on a continuous band. 3,068,787, 12–18–62, Cl. 101—181.

Dally, Roy, and G. W. Fabel, to General Electric Co. Channel and replaceable stylus assemblies. 3,047,676, 7–31–62, Cl. 179—100.41.

Dalmasso, Auguste, to L'Aluminium Francais. Suspension for an electric cable. 3,068,314, 12–11–62, Cl. 174—42.

Dalmine S.p.A.: *See*—
Groppini, Diego. 3,044,331.
Rizzetti, Lidio. 3,054,494.

Dal Mon Research Co.: *See*—
D'Alelio, Gaetano F. 3,017,380.
D'Alelio, Gaetano F. 3,038,864.
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D'Alelio, Gaetano F. 3,047,532.
D'Alelio, Gaetano F. 3,049,526.
D'Alelio. Gaetano F. 3,050,496.
D'Alelio. Gaetano F. 3,053,796.
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D'Alelio, Gaetano F. 3,054,788.
D'Alelio, Gaetano F. 3,056,760.
D'Alelio, Gaetano F. 3,056,770.
D'Alelio, Gaetano F. 3,060,161.
D'Alelio, Gaetano F. 3,061,605.
D'Alelio, Gaetano F. 3,062,774.
D'Alelio, Gaetano F. 3,062,775.
D'Alelio, Gaetano F. 3,065,217.
D'Alelio, Gaetano F. 3,068,190.
D'Alelio, Gaetano F. 3,069,364.

D'Aloisio, Elio F., and M. De Haas, to The New Britain Machine Co. Copying lathe. 3,063,317, 11–13–62, Cl. 82—14.

Dal Pozzo, Paolo: *See*—
Schytil, Franz, Reh, Saccardo, and Dal Pozzo. 3,057,680.

Dalrymple, Ian A. G.: *See*—
Boughton, George J., Dalrymple, and Taylor. 3,044,890.

Dalrymple, William P., to American Brake Shoe Co. Liquid and gas separators. 3,045,411, 7–24–62, Cl. 183—63.

Dalto Electronics Corp.: *See*—
Tucker, Arthur R., and Weiss. 3,060,596.

Dalton, Carol A.: *See*—
Hansen, Roy C. 3,019,560.

Dalton, Harold R. Pressure sensitive coating compositions, their preparation and recording blanks coated therewith. 3,025,180, 3–12–62, Cl. 117—36.7.

Dalton, Harold R., to Timefax Corp. Plural-ply paper and method of manufacture with one or more conductive plies. 3,048,515, 8–7–62, Cl. 162—126.

Dalton, Harold R. Static discharging paper. 3,062,700, 11–6–62, Cl. 162—188.

Dalton Mfg. Co.: *See*—
Sutter, Norman J. 3,023,891.
Sutter, Norman J. 3,029,933.

Dalton, Robert H., and P. Grego, to Corning Glass Works. Light filter and method of production. 3,024,381, 3–6–62, Cl. 313—112.

Dalton, Thomas B., to West Michigan Steel Foundry Co. Landing gear leg structure. 3,064,944, 11–20–62, Cl. 254—86.

D'Aitrui, Thomas N. Automatic lock for demountable storage racks. 3,047,108, 7–31–62, Cl. 189—36.

Daly, Daniel F., to The Arrow-Hart & Hegeman Electric Co. Combined contact and wire terminal. 3,027,440, 3–27–62, Cl. 200—166.

Daly, Daniel F., to The Arrow-Hart & Hegeman Electric Co. Arc hood supporting means for electric switches. 3,035,-140, 5–15–62, Cl. 200—144.

Daly, Daniel F., to The Arrow-Hart & Hegeman Electric Co. Arc suppressing plates and hood for electric switches. 3,043,938, 7–10–62, Cl. 200—144.

Daly, Daniel F., to The Arrow-Hart & Hegeman Electric Co. Switch operating mechanism with handle positioning means. 3,049,024, 8–14–62, Cl. 74—534.

Daly, Daniel F., to The Arrow-Hart & Hegeman Electric Co. Spring held and biased latch. 3,049,371, 8–14–62, Cl. 292—128.

Daly, Frank A.: *See*—
Coley, Nelson B., Phelps, and Daly. 3,054,993.

Daly, James U., to Ranco Inc. Control valve. 3,060,756, 10–30–62, Cl. 74—53.

Daly, John E., to Essex Mfg. Co., Inc. Conduit clamp cushion. 3,041,025. 6–26–62, Cl. 248—74.

Daly, John J. Plastic bottle pourer. 3,045,879, 7–24–62, Cl. 222—482.

Daly, Lawrence E., to United States Rubber Co. Thermoplastic compositions of vinyl chloride resin, graft copolymer of styrene and methyl methacrylate upon butadiene-styrene rubber and styrene methyl methacrylate resin, and method of making same. 3,018,268, 1–23–62, Cl. 260—45.5.

Daly, Lawrence E., to United States Rubber Co. Plastic composition of isotactic monoolefin polymer and cyclized natural rubber. 3,024,211, 3–6–62, Cl. 260—4.

Daly, Norman R., to The United Kingdom Atomic Energy Authority. Positive ion detector. 3,041,453, 6–26–62, Cl. 250—41.9.

Daly, Richard T., to TRG, Inc. Atomic beam frequency standard. 3,021,448, 2–13–62, Cl. 315—5.35.

Daly, Thomas A.: *See*—
Kowalyshyn, Stephen, Daly, and Cooke. 3,045,626.

Daly, Thomas A., and S. B. Hall, to United States of America, Navy. Speed change system for torpedoes. 3,045,624, 7–24–62, Cl. 114—20.

Daly, Thomas A., and S. Kowalyshyn, Jr., to United States of America, Navy. Steering system for a torpedo. 3,053,217, 9–11–62, Cl. 114—24.

Dalzell, David R., Jr., to E. D. Jones Corp. Refining discs with enlarged grooves. 3,049,307, 8–14–62, Cl. 241—255.

Dama, Frank J., and A. Virga. Portable baking device. 3,035,568, 5–22–62, Cl. 126—275.

Daman, Arthur C., to Denver Equipment Co. Apparatus for comminuting ores or the like. 3,064,906, 11–20–62, Cl. 241—1.

Daman, Ernest L., to Foster Wheeler Corp. Closure means for pressurized furnaces. 3,039,407, 6–19–62, Cl. 110—179.

Daman, Louis F.: *See*—
Happe, Reynold, and Daman. 3,034,275.

Daman, Louis F., to The Singer Mfg. Co. Portable cutting tool. 3,022,576, 2–27–62, Cl. 30—241.

Da-Mar Industries, Inc.: *See*—
Haley, Dan J. 3,054,625.

Damaskus, Charles W.: *See*—
Bradford, Paul E., Damaskus, and Lesh. 3,051,627.

Damaskus, Charles W., to Armour & Co. Lyophilized protein hydrolysate suitable for parenteral administration. 3,024,-167, 3–6–62, Cl. 167—65.

Damaskus, Charles W., and P. E. Bradford, to Armour-Pharmaceutical. Stabilized trypsin solution. 3,050,445, 8–21–62, Cl. 195—63.

D'Amato, Ernest. Sphere spinning device. 3,054,217, 9–18–62, Cl. 46—243.

D'Amato, Raphael A., and R. E. Rehm, to R. A. D'Amato, d.b.a. Industrial Service Co. Building construction. 3,033,-740, 5–8–62, Cl. 156—564.

D'Amato, Raphael A., and R. E. Rehm, to R. A. D'Amato d.b. under name and style of Industrial Service Co. Stripping machine for use in connection with siding boards. 3,033,-741, 5–8–62, Cl. 156—584.

D'Amato, Raphael A., and R. E. Rehm, to R. A. D'Amato, d.b.a. Industrial Service Co. Apparatus for the manufacture of laminated corner pieces. 3,033,742, 5–8–62, Cl. 156—585.

D'Amato, Vitangelo, to Ledoga S.p.A. Process for the preparation of pure sucrose esters. 3,054,789, 9–18–62, Cl. 260—234.

D'Ambrose, Gaetano, Jr. Attachment for depth micrometer. 3,023,510, 3–6–62, Cl. 33—189.

Dameron, Wyllie F., to Core Laboratories, Inc. Method and apparatus for determining depth of well samples. 3,025,-398, 3–13–62, Cl. 250—83.3.

D'Amico, John J.: *See*—
Godfrey, Kenneth L., and D'Amico. 3,015,551.
Harman, Marion W., and D'Amico. 3,057,710.
Ludvik, George F., and D'Amico. 3,061,624.

D'Amico, John J. Accelerating rubber with 5-carbalkoxy-4-alkyl-2-thiazolesulfenamides. 3,020,266, 2–6–62, Cl. 260—79.5.

D'Amico, John J., to Monsanto Chemical Co. Vulcanizing rubber with hexamethyleniminethiothiazoles. 3,036,050, 5–22–62, Cl. 260—79.5.

D'Amico, John J., to Monsanto Chemical Co. Processing vulcanizable elastomers with nitrosoarylaminomethylimides. 3,036,051, 5–22–62, Cl. 260—85.3.

D'Amico, John J., to Monsanto Chemical Co. 2-hydroxycyclohexylthiothiazoles. 3,040,053, 6–19–62, Cl. 260—302.

D'Amico, John J., to Monsanto Chemical Co. Thiazolylthiocyclohexanone oximes. 3,048,597, 8–7–62, Cl. 260—302.

D'Amico, John J., to Monsanto Chemical Co. Thiazolylthiocyclohexylamines. 3,051,716, 8–28–62, Cl. 260—302.

D'Amico, John J., to Monsanto Chemical Co. Dihydrodioxonaphthylenedithiobis (thiazolecarboxylates). 3,051,717, 8–28–62, Cl. 260—302.

D'Amico, John J., to Monsanto Chemical Co. Halogen substituted alkenyl dithiocarbamic acid salts and esters. 3,051,735, 8–28–62, Cl. 260—429.9.

D'Amico, John J., to Monsanto Chemical Co. Thiazolylthionaphthoquinones. 3,055,908, 9–25–62, Cl. 260—302.

D'Amico, John J., to Monsanto Chemical Co. Bis(haloalkenyl)polymethylenebis-(dithiocarbamates). 3,056,822, 10–2–62, Cl. 260—455.

D'Amico, John J., to Monsanto Chemical Co. Vulcanizing rubber with 1-thiozalyl unsymmetrical-1,4-piperazines. 3,057,933, 10–9–62, Cl. 260—786.

D'Amico, John J., and A. G. Weiss, to Monsanto Chemical Co. Rubber vulcanizing method employing phenoxyalkylamines. 3,032,406, 5–1–62, Cl. 71—2.5.

Damico, Joseph: *See*—
Richardson, William C. 3,062,545.

D'Amico, Joseph S.: *See*—
Braithwaite, David G., McGrew, Hettinger, and D'Amico. 3,034,094.
Braithwaite, David G., McGrew, Hettinger, and D'Amico. 3,034,995.

D'Amico, Salvatore J. Displayer lamp and planter. 3,066,-445, 12–4–62, Cl. 47—19.

D'Amico, Salvatore P., to Sperry Rand Corp., Ford Instrument Co. Division. Vehicle navigational computer. 3,024,-996, 3–13–62, Cl. 235—187.

Damisch, Russell D.: *See*—
Wingerd, Winston H., Bauer, and Damisch. 3,036,918.

Damm, Dominic J., to Detroit Stamping Co. Method and apparatus for accurately measuring edge contour of an article. 3,061,918, 11–6–62, Cl. 29—407.

Damm, Eugene P., Jr., to International Business Machines Corp. Multiple colored printing inks and pigments. 3,049,-077, 8–14–62, Cl. 101—211.

Damm, Herbert: *See*—
Fricke, Erwin, and Damm. 3,070,112.

Dammler, Kurt: *See*—
Meyer, Ferdinand, and Demmler. 3,023,224.

Damon, Glenn H., J. Ribovich, and J. A. Herickes, to United States of America, Navy. Boron containing fuel and fuel igniter for ram jet and rocket. 3,069,300, 12–18–62, Cl. 149—22.

Damon, Harry E., Jr., and S. G. Judge, to H. E. Damon, Jr. Method and apparatus for putting-out hides and skins. 3,059,461, 10–23–62, Cl. 769—1.

Damon, Harry E., Jr., and S. G. Judge, to H. E. Damon, Jr. Method for putting-out hides and skins. 3,064,461, 11–20–62, Cl. 69—21.

Damon, Neil F., to Augat, Inc. Electronic component holder. 3,061,811, 10–30–62, Cl. 339—66.

Damon, Richard W., to General Electric Co. Pressure tuned three-level paramagnetic maser. 3,064,201, 11–13–62, Cl. 330—4.

Damon, Robert H., to Johnson Fare Box Co. Removable counter. 3,052,403, 9–4–62, Cl. 235—1.

Damon, Robert W.: *See*—
Waters, Robert A., and Damon. 3,057,194.

Damon, Roger H., Jr.: *See*—
Reardon, John P., and Damon. 3,056,865.

Damonte, John B.: *See*—
Walters, Glenn A., and Damonte. 3,039,079.

Damoth, Donald C.: *See*—
Saari, John M., Damoth, and Wiley. 3,049,638.

Damrel, John B., Jr., to Texas Instruments Inc. Temperature-controlled gravity meter assembly. 3,052,125, 9–4–62, Cl. 73—382.

Damusis, Adolf, to The Sherman-Williams Co. Method of amine curing epoxy resins and composition therefor. 3,023,-190, 2–27–62, Cl. 260—47.

Damusis, Adolfas, to Wyandotte Chemicals Corp. Ordered hydroxy-terminated tertiary-nitrogen-containing polyether-based urethane compositions. 3,049,514, 8–14–62, Cl. 260—77.5.

Damusis, Adolfas, to Wyandotte Chemicals Corp. Hydroxy-terminated polyether-based urethane compositions. 3,049,-515, 8–14–62, Cl. 260—77.5.

Damusis, Adolfas, to Wyandotte Chemicals Corp. Ordered hydroxy-terminated polyether-based urethane compositions. 3,049,516, 8–14–62, Cl. 260—77.5.
Damusis, Adolfas, and K. C. Frisch, to Wyandotte Chemicals Corp. Ordered isocyanate-terminated polyether-based urethane compositions. 3,049,513, 8–14–62, Cl. 260—77.5.
Dana, Baron R., and W. H. Ray, to Societa Farmaceutici Italia Farmitalia. Protecting articles from animals with streptomyces distallicus extracts. 3,043,743, 7–10–62, Cl. 167—46.
Dana Corp.: *See*—
Cole, Nelson E. 3,039,629.
Fletcher, Robert E. 3,016,759.
Miller, Fred F. 3,017,755.
O'Brien, Loren J. 3,027,781.
O'Brien, Loren J. 3,041,890.
O'Brien, Loren J. 3,055,234.
Reed, George R. 3,068,663.
Sharp, Everett H. 3,017,756.
Wagner, Robert W. 3,056,929.
Dance, Eldred L., T. E. Drisko, Jr., and E. A. McLain, to The Dow Chemical Co. Recovery and purification of boron trichloride. 3,021,922, 2–20–62, Cl. 183—115.
Danchuk, Alex, to The Bendix Corp. Method and means for terminating braided insulation and shielding of a wire cable. 3,035,115, 5–15–62, Cl. 174—74.
Danciart, Ted T., and D. Dunder, to Calpatio Co. Adjustable chaise lounge. 3,032,373, 5–1–62, Cl. 297—371.
Danciart, Ted T., and D. Dunder, to Calpatio Co. Demountable table. 3,032,380, 5–1–62, Cl. 311—35.
Danco Telephone Co., Inc.: *See*—
Cobb, George R. 3,040,138.
Dancy, William B., to International Minerals & Chemical Corp. Dust control in potash products. 3,063,800, 11–13–62, Cl. 23—89.
D'Andrea, Philip A. Reproduction of a textured surface. 3,060,611, 10–30–62, Cl. 41—27.
Dane Corp., The: *See*—
Rodth, Joseph J., Price, and Dexter. 3,045,869.
Rodth, Joseph J. 3,042,265.
Dane, Samuel: *See*—
Price, Frederick J., Jr. 3,060,702.
Danek, George J., Jr.: *See*—
Achter, Meyer R., and Danek. 3,027,757.
Daneman, Ben, to Central Engineering Co., Inc. Vacuum-type debris collector. 3,052,908, 9–11–62, Cl. 15—340.
Daneman, Emanuel A. Selectors and timers for electrocardiographs. 3,058,458, 10–16–62, Cl. 128—2.06.
Danforth, Clifton A.: *See*—
Corson, Bolton L., and Danforth. 3,022,988.
Danforth, Richard S., to The Eastern Co. Anchor. 3,030,-906, 4–24–62, Cl. 114—208.
Danforth, Richard S., to The Eastern Co. Navigational device. 3,058,339, 10–23–62, Cl. 33—76.
Danfoss: *See*—
Ley, Robert. 3,061,178.
Schmidt, Hans. 3,061,175.
Danfoss ved Ingenior Mads Clausen: *See*—
Jensen, Jens E. G. 3,056,935.
Porland, Kjeld. 3,070,155.
Porland, Kjeld, and Sorensen. 3,063,640.
Porland, Kjeld R. 3,033,464.
Dangelmaier & Co.: *See*—
Gottschalk, Johannes. 3,048,092.
Danger, Roger, 50% to Inventions Finance Corp. Motion transforming device and apparatus incorporating said device. 3,049,803. 8–21–62, Cl. 30—228.
Dango & Dienenthal K.G.: *See*—
Zimmermann, Theo, and Ullrich. 3,036,854.
Danhammer, Max: *See*—
Wiederhur, Wolfgang, and Danhammer. 3,031,867.
Danhier, Francois G., to La Soudure Electrique Autogene, S. A. Gun and process for semi-automatic arc welding. 3,022,415, 2–20–62, Cl. 219—130.
Danhier, Francois G., to La Soudure Electrique Autogene, S.A. Autogen upward welding process. 3,024,352, 3–6–62, Cl. 219—126
Daniel, David W., to National Broach & Machine Co. Apparatus for making hones. 3,059,278, 10–23–62, Cl. 18—34.
Daniel, Eric D.: *See*—
Eldridge, Donald F., and Daniel. 3,070,670.
Daniel, Georges H. M., to Societe Triflux. Gas discharge tube supply system. 3,051,871, 8–28–62, Cl. 315—208.
Daniel, Gunther F. Sculpturing kit. 3,044,185, 7–17–62, C 35—26.
Daniel, Hermann F., to Union Special Maschinenfabrik G.m.b.H. Adjustable drive for feed dog of a sewing machine. 3,033,141, 5–8–62, Cl. 112—210.
Daniel, Hugh O. Dispensing apparatus. 3,052,417, 9–4–62, Cl. 239—314.
Daniel, John H., Jr., to American Cyanamid Co. Paper sized with cationic vinyl copolymer and process for the manufacture thereof. 3,022,214, 2–20–62. Cl. 162—168.
Daniel, Leota M. Tool for rectal treatment. 3,022,787, 2–27–62, Cl. 128—321.
Daniel, Richard I., to Daisey Mfg. Co. Gun sight mechanism. 3,030,708, 4–24–62, Cl. 33—47.
Daniel, Roger P.: *See*—
Fredericks, Robert H., and Daniel. 3,016,764.
Daniel, Roger P., to Ford Motor Co. Safety steering wheel. 3,055,231, 9–25–62, Cl. 74—552.
Daniel, William A., to The Bendix Corp. Apparatus for slip-casting ceramic materials. 3,041,699, 7–3–62, Cl. 25—29.
Daniel, William A., to The Bendix Corp. Radially vibratile ceramic transducers. 3,056,589, 10–2–62, Cl. 259—72.
Daniele, Donald T., to Diamond National Corp. Adjustable shaft coupling. 3,015,941, 1–9–62, Cl. 64—24.
Daniele, Donald T., to Diamond National Corp. Vacuum control for pulp molding machines. 3,016,091, 1–9–62, Cl. 162—391.22,107. 2–20–62, Cl. 296—37.
Danieli, Frank P. Dispensers for granular material. 3,022,-925, 2–27–62, Cl. 222—517.
Danielli, James F., and L. N. Owen, to National Research Development Corp. Anti tumour compound. 3,057,850, 10–9–62, Cl. 260—209.
Daniels, Charles B., and N. C. Wyeth, to E. I. du Pont de Nemours and Co. False twisted yarn beam. 3,022,566, 2–27–62, Cl. 28—78.
Daniels, Charles J., to All American Engineering Co. Aerial cargo delivery system. 3,030,078, 4–17–62, Cl. 258—1.2.
Daniels, Charles J., to All American Engineering Co. Arresting means for moving objects. 3,034,749, 5–15–62, Cl. 244—110.
Daniels, Charles J., and T. A. Smith, to All American Engineering Co. Mechanical hand. 3,020,908, 2–13–62, Cl. 128—26.
Daniels, Charles J., and R. J. Haber, to All American Engineering Co. Aircraft arresting means. 3,028,127, 4–3–62, Cl. 244—110.
Daniels, Charles S.: *See*—
Haydon, Arthur W., Daniels, and King. 3,058,017.
Daniels, Cloyce R.: *See*—
Morway, Arnold J., and Daniels. 3,033,787.
Morway, Arnold J., Daniels, and Spray. 3,018,249.
Daniels, Farrington, to United States of America, Atomic Energy Commission. Neutronic reactor. 3,069,341, 12–18–62, Cl. 204—193.2.
Daniels, Flavius K.: *See*—
Kirby, Wilfred, and Daniels. 3,027,816.
Daniels, Franklin W., to General Electric Co. Ceramic-to-metal seal and method of making the same. 3,020,182, 2–6–62, Cl. 154—43.
Daniels, Glenn E., to United States of America, Army. Radiation compensating thermoelectric device. 3,049,012, 8–14–62, Cl. 73—359.
Daniels, Gordon E., to Kerrigan Iron Works Co. Standard for traffic signals, street lights and the like. 3,045,783, 7–24–62, Cl. 189—26.
Daniels, Harry L., Jr. Farber Welting Co. Welt with rib. 3,064,368, 11–20–62, Cl. 36—78.
Daniels, Howard L., and C. W. Fritze, to Sperry Rand Corp. Analog system. 3,060,409, 10–23–62, Cl. 340—172.5.
Daniels, Howard L., to Telex, Inc. Electrical switch. 3,019,323, 1–30–62, Cl. 200—155.
Daniels, Howard L., to Sperry Rand Corp. Data processing code card. 3,026,029, 3–20–62, Cl. 235—61.12.
Daniels, Howard L., W. O. Edstrom, and V. E. Herzfeld, to Sperry Rand Corp. Slide manipulator. 3,063,181, 11–13–62, Cl. 40—79.
Daniels, James W., to American Marine Outdrive, Inc. Boat transom suspension unit. 3,057,320, 10–9–62, Cl. 115—35.
Daniels, John F., and R. E. Hager, to Acme Steel Co. Strap guide track. 3,031,949, 5–1–62. Cl. 100—26.
Daniels, John W., D. Messner, and W. N. Sparling, to Hoffman Electronics Corp. Push-button tuning system for television receivers or the like. 3,039,037, 6–12–62, Cl. 318—467.
Daniels, Wilbert P.: *See*—
Baum, Richard E., and Daniels. 3,056,245.
Daniels, William H., to General Motors Corp. Vehicle closure. 3,022,107. 2–20–62, Cl. 296—37.
Daniels, William W., to E. I. du Pont de Nemours and Co. Reinforced composite structures. 3,051,212, 8–28–62, Cl. 152—330.
Danielson, Arthur C., to United States Rubber Co. Adhering textile materials to rubber. 3,018,207, 1–23–62, Cl. 154—52.
Danielson, Arthur C., to United States Rubber Co. Adhesion of polyester fiber directly to butyl rubber by means of epoxy resin. 3,036,948, 5–29–62. Cl. 156—330.
Danielson Mfg. Co., The: *See*—
McKinley, William. 3,021,029.
Danielson, Richard D., and J. W. Sargent, to Minnesota Mining and Mfg. Co. Electrochemical production of fluorocarbon acid fluorides. 3,028,321, 4–3–62, Cl. 204—59.
Danielson, Warren E., to Bell Telephone Laboratories, Inc. Multiple unit antenna system. 3,058,107, 10–9–62, Cl. 343—100.
Danielsson, Karl E. H., and J. F. S. Lundmark; said Lundmark assor. to said Danielsson. Apparatus for the determination of the sedimentation rate of blood. 3,026,717, 3–27–62, Cl. 73—61.
Danielzig, Karl-Heinz, to Habra-Werk Wilhelm F. Ott. Manufacture of containers or the like. 3,041,941, 7–3–62, Cl. 93—12.
Danin, Alex. Parking space guarding device. 3,066,431, 12–4–62, Cl. 39—92.
Danjczek, William E., to L. & C. Hardtmuth, Inc. Dispensing lead containers. 3,055,546, 9–25–62, Cl. 221—227.
D'Anka, Blaise, to Crescent Metal Products, Inc. Tray support. 3,059,780, 10–23–62, Cl. 211—147.
Danker, Berend, to North American Philips Co., Inc. Receiving circuit arrangement comprising a ratio detector. 3,047,-813, 7–31–62, Cl. 329—129.

Dankese, Joseph P.: *See*—
Comeau, Ernest J., Jr., and Dankese. 3,026,366.
Danko, George J. Marine toilet. 3,058,121, 10–16–62, Cl. 4—77.
Danko, Joseph O., Jr.: *See*—
Greenwood, Henry B., and Danko. 3,031,937.
Danley, Philip R. F., to Sears, Roebuck and Co. Paint brush. 3,023,439, 3–6–62, Cl. 15—143.
Danly Machine Specialties, Inc.: *See*—
Heiberger, Francis E., and Kennedy. 3,028,531.
Dann, John R.: *See*—
Chiesa, Peter P., Dann, and Gates. 3,068,102.
Lovett, William G., Chiesa, and Dann. 3,057,724.
Dann, John R., P. P. Chiesa, and W. G. Lovett, to Eastman Kodak Co. Non-polymeric open-chain sensitizers. 3,038,-805, 6–12–62, Cl. 96—100.
Dann, John R., and J. J. Chechak, to Eastman Kodak Co. Sensitization of photographic silver halide emulsions with polymeric compounds containing a plurality of sulfur atoms. 3,046,134, 7–24–62, Cl. 96—108.
Dann, John R., and J. W. Gates, Jr., to Eastman Kodak Co. Sensitization of silver halide emulsions with macrocyclic compounds. 3,062,646, 11–6–62, Cl. 96—66.
Dannals, Leland E.: *See*—
Howland, Louis H., and Dannals. 3,056,758.
Dannebaum, Rex P. Knot tying apparatus. 3,043,615, 7–10–62, Cl. 289—17.
Dannels, Bobby F.: *See*—
Weisse, Guenter K., and Dannels. 3,061,642.
Dannenbaum, Joseph B. Apparatus for the treatment of sanitary sewage. 3,028,967, 4–10–62, Cl. 210—180.
Danner, Charles J. Game. 3,022,075, 2–20–62, Cl. 273—93.
Dannevig, Mogens. Seed sowing apparatus. 3,027,856, 4–3–62, Cl. 111—95.
Danno, Tatsuo, to Feza Mishin Seizo Kabushiki Kaisha. Zig-zag sewing apparatus in sewing machines. 3,064,602, 11–20–62, Cl. 112—158.
Dano Ingeniørforetning og Maskinfabrik Ingenior Kai Petersen's Fond: *See*—
Petersen, Kai F. 3,055,744.
Danoras, Al: *See*—
Stedman, Hubert Q., Jr., and Danoras. 3,058,038.
Dan River Mills, Inc.: *See*—
Feldmann, Paul. 3,068,123.
Stephens, Roy M., Richbourg, and Gregory. 3,023,480.
Wright, Ernest L., III, Smith, and Wayland. 3,038,821.
Dansereau, Bernard: *See*—
Ouimet, Jean, and Dansereau. 3,021,913.
Dansereau, Francis C., to National Gypsum Co. Pallatized material handling. 3,059,796, 10–23–62, Cl. 214—731.
Dansk Rontgen-Teknik A/S.: *See*—
Hansen, Soren L. W. 3,032,308.
D'Antonio, Renato A.: *See*—
Carroll, William N., and D'Antonio. 3,022,945.
Dantowitz, Philip, to General Electric Co. Turbine control system. 3,059,660, 10–23–62, Cl. 137—29.
Dantzic, Morris. Optical inspection accessory. 3,029,694, 4–17–62, Cl. 88—39.
Danuser, Henry: *See*—
Wren, Clyde E., and Danuser. 3,057,495.
Danuser Machine Co.: *See*—
Wren, Clyde E., and Danuser. 3,057,495.
Danziger, William, C. D. Rush, and J. Gold, to Continental Vending Machine Corp. Hot beverage vender. 3,045,870, 7–24–62, Cl. 221—9.
Daponte, Demetre, and G. May, to Dufaylite Developments Ltd. Cellular structures made from sheet materials. 3,032,458, 5–1–62. Cl. 154—45.9.
Dapper Hosiery Mills Inc.: *See*—
Anderson, Collie W., Stinnett, and Ayers. 3,069,884.
Dapsees, William P., to Wolverine Equipment Co. Jet dryer. 3,060,595, 10–30–62, Cl. 34—160.
Darbee, Leonard R.: *See*—
Kreuz, Donald F., and Darbee. 3,030,186.
Darbee, Leonard R., D. F. Kreuz, and T. M. Jenney, to FMC Corp Production of hydrogen peroxide by anthraquinone process. 3,062,622, 11–6–62, Cl. 23—207.
Darby, Claude H. Tied arch jacking frame. 3,069,138, 12–18–62, Cl. 254—51.
Darby, Joseph R.: *See*—
Cowell, Elmer E., and Darby. 3,042,644.
Darby, Richard T., A. D. Baskin, and H. C. Lilly. Cycling leaching and extraction apparatus. 3,015,226, 1–2–62, Cl. 68—181.
Darby, Robert A., and E. K. Ellingboe, to E. I. du Pont de Nemours and Co. Polymerization of ethylenically unsaturated compounds with bis (trifluoromethyl) peroxide as polymerization initiator. 3,069,404, 12–18–62, Cl. 260—92.1.
Darcey, Joy S., to Beverly Vogue Co., Inc. Panty girdle. 3,022,788, 2–27–62, Cl. 128—529.
D'Arcy, Ellis W. Motion picture projector. 3,039,022, 6–12–62, Cl. 315—278.
D'Arcy, James, to Datrel Co., Inc. Device for applying indexing means at spaced intervals on an elongated element. 3,025,212, 3–13–62, Cl. 156—552.
Darde, Peter, to Ametek, Inc. Device for quick-releasably holding peak reading of a gage. 3,036,381, 5–29–62, Cl. 33—172.
Darden, William M.: *See*—
Talbott, David R., and Darden. 3,019,535.
Dardick Corp.: *See*—
Dardick, David. 3,041,939.
Dardick. David. 3,046,890.
Dardick, David, to Dardick Corp. Multi-barrel gun with a plurality of firing stations and an ammunition drum. 3,041,939, 7–3–62, Cl. 89—126.
Dardick, David, to Dardick Corp. Ammunition for open chamber guns. 3,046,890, 7–31–62, Cl. 102—38.
Dardis, Eliska de B.: *See*—
Chambers, Thelma L., and Dardis. 3,037,773.
Dardy, Raymond, to Preparation Industrielle des Combustibles. Process and apparatus for adjusting the length and/or tension of a rope. 3,052,320, 9–4–62, Cl. 187—1.
Dargois, Simon. Adjustable binder apparatus for sewing machines. 3,064,601, 11–20–62, Cl. 112—137.
Darland, William G., Jr., to Union Carbide Corp. Production of lead dioxide. 3,033,908, 5–8–62, Cl. 136—27.
Darlaston, Arthur J. H., and M. W. Alston, to Siemens Edison Swan Ltd. Production of insulating coatings on metal. 3,027,313, 3–27–62, Cl. 204—181.
Darling, Horace E., to The Foxboro Co. Electro-signal converting apparatus. 3,016,493, 1–9–62, Cl. 330—8.
Darling, L. A., Co.: *See*—
Huet, Edward C. 3,018,900.
Darling, Marvin C., to The Cessna Aircraft Co. Piston velocity governor. 3,054,384, 9–18–62, Cl. 121—38.
Darling, Samuel M.: *See*—
Emrick, Donald D., and Darling. 3,044,998.
Darling Valve & Mfg. Co.: *See*—
Jester, Thomas C. 3,070,115.
Darlington, Walter A., to Monsanto Chemical Co. Virus inhibitors. 3,034,954, 5–15–62, Cl. 167—33.
Darlington, William W., to Edcliff Instruments, Inc. Electromagnetic motion responsive device. 3,052,858, 9–4–62, Cl. 336—30.
Darlite Corp.: *See*—
Rosen, Carl G. A., and Dailey. 3,041,116.
Rosen, Carl G. A., and Dailey. 3,041,194.
Darmon Tool & Mfg. Corp.: *See*—
Nisenson, Jules. 3,060,568.
Darmstadt, Lois J., and G. W. Fuller, to King-Seeley Thermos Co. Stopper for vacuum bottle assembly or the like. 3,039,798, 10–23–62, Cl. 215—13.
Darmstadt, Louis J.: *See*—
Payson, Arthur H., and Darmstadt. 3,017,047.
Darnell, Alfred J., W. A. McCollum, Jr., and C. J. Meechan, to United States of America, Atomic Energy Commission. Method of purifying thorium. 3,068,093, 12–11–62, Cl. 75—84.
Darnell, Beryl E. Cleaner. 3,050,760, 8–28–62, Cl. 15—113.
Darnell, George, to Stuart M. Lerner, Inc. Drawer and frame. 3,028,207, 4–3–62, Cl. 312—111.
Darnell, George. Molding apparatus. 3,037,245, 6–5–62, Cl. 18—30.
Darnell, James R.: *See*—
Commanday, Maurice R., and Darnell. 3,015,579.
Commanday, Maurice R., and Darnell. 3,030,491.
Darnell, Rex C., to Dynamic Filters Inc. Stack type filter construction. 3,048,276, 8–7–62, Cl. 210—304.
Darnell, Rex C., to Dynamic Filters, Inc. Centrifugal contaminant extractor. 3,050,240, 8–21–62, Cl. 233—31.
Darney, Kenneth A.: *See*—
Buchanan, John D., and Darney. 3,065,712.
D'Aronco, Girolamo. Roadway guard rail barrier. 3,039,743, 6–19–62, Cl. 256—13.1.
Darou, William T., Jr.: *See*—
Fuller, Harrison W., Woodsum, Darou, and Ledin. 3,039,102.
Darphin, Pierre. Fluid operated vibrating massage bladder. 3,027,893, 4–3–62, Cl. 128—64.
Darr, Donald R., and R. P. Yaworski, to Pittsburgh Plate Glass Co. Finishing of solid diphenolic polycarbonates. 3.022.271, 2–20–62, Cl. 260—47.
Darragh, Jack B.: *See*—
Dering, Roger. 3,061,097.
Darrow, Robert H.: *See*—
Tuttle, Kenneth W., and Gammill. 3,015,182.
Darsch, Arnold P.: *See*—
Binford, Benjamin L., and Darsch. 3,037,103.
Darsie, Burns, to United States of America, Army. Barrel safety latch. 3,034,407, 5–15–62, Cl. 89—14.
Darsie, Burns, and M. Heifetz, to United States of America, Army. Saddle type magazine feed. 3,043,198, 7–10–62, Cl. 89—33.
Darwin, Daniel P., and R. M. Kellogg, to International Business Machines Corp. Hydraulic actuator. 3,066,859, 12–4–62, Cl. 234—107.
Darwin, Helen S. Combined bowling practice device and furniture. 3,055,704, 9–25–62, Cl. 297—118.
Daryl Industries, Inc.: *See*—
Miller, Robert P. 3,050,322.
D'Asaro, Lucian A., to Bell Telephone Laboratories, Inc. Semiconductor pulse translating system. 3,040,196, 6–19–62, Cl. 307—88.5.
Dasburg, Alfred V., to General Railway Signal Co. Automatic car retarder control system. 3,054,893, 9–18–62, Cl. 246—182.
Dasch, Lawrence, and P. R. Cutter, to Diamond Alkali Co. Heavy duty liquid synthetic detergent composition. 3,066,-104, 11–27–62, Cl. 252—137.
D'Ascoli, Ralph G., to Anaconda Wire and Cable Co. High voltage shielding composition. 3,049,584, 8–14–62, Cl. 174—120.

Dasek, Jaroslav: *See*—
Culik, Karel, Herold, Palkoska, Belik, and Dasek. 3,037,-917.
Dash, Edward. Method of arc welding studs. 3,040,165, 6–19–62, Cl. 219—99.
Dash, Edgard. Stud welding gun. 3,052,793, 9–4–62, Cl. 219—98.
Dasher, Campbell K., 50% to P. J. Malonson. Dispensing mechanism. 3,031,101, 4–24–62, Cl. 221—90.
Dasher, John, and M. C. Chang, to Crucible Steel Co. of America. Rolling mill. 3,017,665, 1–23–62, Cl. 18—9.
Dashew Business Machines, Inc.: *See*—
Dashew, Stanley A. 3,015,267.
Dashew, Stanley A., Sumida, Dobrowsky, and Greene. 3,056,347.
Hill, George H., Sumida, and Dobrowsky. 3,045,589.
Dashew, Stanley A., to Dashew Business Machines, Inc. Identification and printing devices. 3,015,267, 1–2–62, Cl. 101—369.
Dashew, Stanley A., K. A. Sumida, A. G. Dobrowsky, and H. R. Greene, to Dashew Business Machines, Inc. Printing machine. 3,056,347, 10–2–62, Cl. 101—269.
Dashfield, Donald A., to Bell Aerospace. Method for removal of iron nitride. 3,069,296, 12–18–62, Cl. 134—7.
Da Silva, Edvard M.: *See*—
Theodoseu, Nicholas, Kahan, Da Silva, and de Cormier. 3,023,737.
Dassance, Carroll F. Speed reducing unit. 3,029,658, 4–17–62, Cl. 74—343.
Dassler, Armin A., to Puma-Schuhfabrik Rudolf Dassler K.G. Sport shoe provided with a protective cap. 3,028,689, 4–10–62, Cl. 36—2.5.
Date, Kazuo H., to McGraw-Edison Co. Ice breaking attachment. 3,052,782, 9–4–62, Cl. 200—146. Switching device. 3,064,107, 11–13–62, Cl. 200—170.
Date, Kazuo H., and A. Van Ryan, to McGraw-Edison Co. Automatic circuit interrupter. 3,030,476, 4–17–62, Cl. 200—150.
Datex Corp.: *See*—
Bodnar, John W., Rosen, and Spaulding. 3,063,625.
Spaulding, Carl P., and Duncan. 3,019,427.
Spaulding, Carl P., and Wheeler. 3,054,996.
Datlow, Benjamin A. and M. M. Apparatus for cleaning furs, 3,030,793, 4–24–62, Cl. 69—23.
Datlow, Max M.: *See*—
Datlow, Benjamin A. and M. M. 3,030,793.
Datner, Paul P.: *See*—
Douglas, William A., and Datner. 3,044,711.
Datrel Co., Inc.: *See*—
D'Arcy, James. 3,025,212.
Datt, Paul L., to Shell Oil Co. Magnetic testing system for metallic bodies. 3,050,678, 8–21–62, Cl. 324—37.
Daty, Arthur B.: *See*—
Mann, Stuart N., and Daty. 3,050,744.
Daub, Rudolph. Piston head structure. 3,023,061, 2–27–62, Cl. 309—14.
Daub, Rudolph. Internal combustion engines. 3,056,392, 10–2–62, Cl. 123—32.
Daubenberger, Orvie J., to Sperry Rand Corp. Manure spreader. 3,059,488, 10–23–62, Cl. 74—118.
Dauber, Carl J.: *See*—
Bielenberg, James G., and Dauber. 3,033,713.
Dauber, Louis, and L. J. Engel, to Esso Research and Engineering Co. Hydroforming with increments of highly active catalyst. 3,067,129, 12–4–62, Cl. 208—140.
Daubert, Charles D. Carton. 3,037,682, 6–5–62, Cl. 229—40.
Daubert Chemical Co.: *See*—
Hutter, Clemens A., and Stricker. 3,032,181.
Daubman, Edward A.: *See*—
O'Connor, Frank, and Daubman. 3,038,611.
Dauchert, Eugene F., to E. I. du Pont de Nemours and Co. Melt spinning apparatus and process. 3,067,458, 12–11–62, Cl. 18—8.
Daudin, Jacques, and C. C. Smith, to Socony Mobil Oil Co., Inc. Coating composition and method of application. 3,032,852, 11–13–62, Cl. 106—15.
Daudin, Jacques P. M., and C. C. Smith, to Socony Mobil Oil Co., Inc. Method of preserving banana plants. 3,037,867, 6–5–62. Cl. 99—168.
Daudt, William H., to Dow Corning Corp. Composition comprising a siloxane copolymer. 3,036,985, 5–29–62, Cl. 260—42.
Daugherty, Frank Z., to Ametek, Inc. Method and assembly for anti-friction bearing mounting structure. 3,052,956, 9–11–62. Cl. 29—148.4.
Daugherty, Frank Z., and A. L. Sebok, to Ametek, Inc. Insulated wound core assembly for electric motors and the like. 3,032,671, 5–1–62, Cl. 310—214.
Daugherty, Harry V. Releasable hanging device. 3,046,598, 7–31–62. Cl. 17—44.3.
Daugherty, Harry V., ½ to I. C. Hartman. Safety wiring plier. 3,070,136, 12–25–62, Cl. 140—119.
Daugherty, Henry J., and R. E. Maxwell. Jaw operating structure for pipe wrench. 3,019,680, 2–6–62, Cl. 81—53.
Daugherty, Henry J., and R. E. Maxwell. Tube rotating apparatus. 3,059,512, 10–23–62, Cl. 81—97.
Daugherty, Jack D. Foot massager. 3,037,500, 6–5–62, Cl. 128—57.
Daugherty, John M. Collapsible tube. 3,065,898, 11–27–62, Cl. 229—53.
Daugherty, Phillip M., and H. C. Vaughn, to Photo-Engravers Research, Inc. Powderless etching of copper plate. 3,033,-725, 5–8–62, Cl. 156—14.
Daugherty, Ralph K.: *See*—
Magnuson, Roy M., and Daugherty. 3,036,419.
Daugherty, Ralph K., ½ to G. I. Magnuson and ½ to G. I. and R. Magnuson, and L. J. Fox, as trustees. Safety knife structure for vegetable trimming apparatus. 3,032,086, 5–1–62, Cl. 146—106.
Daugusta, Nathan D. Tool posts. 3,024,686, 3–13–62, Cl. 82—36.
Daul, George C., H. F. Wise, and J. Wharton, to Courtaulds North America Inc. Process for improving the properties of regenerated cellulose fibrous material. 3,038,777, 6–12–62, Cl. 8—116.4.
Daulton, Arthur G.: *See*—
Kaiser, Robert P., and Daulton. 3,070,735.
Daum, Josef. Mass structures comprising joint-filling means. 3,060,817, 10–30–62, Cl. 94—18.
Daumy, Georges, G. Rambaud, and M. Arnoux, to Bouchayer & Viallet Etablissements. Butterfly gates. 3,049,335, 8–14–62, Cl. 251—305.
Daun, Lauren E., and M. F. Grandey, to General Electric Co. Abradable material. 3,053,694, 9–11–62, Cl. 117—95.
Dauphinee, Thomas M., to National Research Council. Vernier potentiometer. 3,065,418, 11–20–62, Cl. 324—98.
Daurila, Errki A., to Sala Maskinfabriks Aktiebolag. Magnetic drum separator. 3,049,234, 8–14–62, Cl. 209—219.
Dausch, Ernst, and K. Schrotz, to SKF Kugellagerfabriken Gesellschaft mit beschrankter Haftung. Textile drawing mechanism. 3,021,574, 2–20–62, Cl. 19—135.
Daussan, Henri J. Method and device for treating an ingot or the like in the course of its solidification in an ingot mould or the like. 3,030,679, 4–24–62, Cl. 22—147.
D'Autheville, Claude A. G., and G. J. Lafon. Article-counting machines. 3,063,596, 11–13–62, Cl. 221—7.
Dautremont, Joseph L., Jr.: *See*—
Leavitt, Minard A., and Dautremont. 3,066,185.
Dave, David H. Apparatus for the installation of reinforced concrete floors in multi-storied buildings. 3,037,259, 6–5–62, Cl. 25—131.5.
Daven Co., The: *See*—
Smith, John P., Jr. 3,040,700.
Davenport, Aaron W. L. Weatherboarding construction and method of erection of walls. 3,046,700, 7–31–62, Cl. 50—200.
Davenport, Charles T.: *See*—
Miner, Richard Y., Davenport, and Kreitner. 3,049,808.
Davenport, Lee L., and I. A. Getting, to United States of America, Navy. System for controlling and guiding missiles. 3,053,478, 9–11–62. Cl. 244—14.
Davenport Machine Tool Co., Inc.: *See*—
Lee, Robert A., and Brinkman. 3,022,691.
Davenport, Marc G.: *See*—
Roberts, Joe E., and Davenport. 3,041,810.
Davenport, Rodney B., and E. J. Woodfin, to Whirlpool Corp. Clothes washing machine with water level control means. 3,030,790, 4–24–62, Cl. 68—13.
Davenport, William G., R. K. Hampton, and A. M. Katzen, to Beaumont Birch Co. Discharge gate apparatus. 3,022,-921, 2–27–62. Cl. 222—108.
Daverio A. G.: *See*—
Brandke, Max. 3,038,603.
Daverman, Edward H. *See*—
Rookus, James E. 3,018,933.
Davey, Gerald F., to Riley Stoker Corp. Expansion joint. 3,043,055, 7–10–62, Cl. 50—194.
Davey, Gerald F., to Stoker, Riley, Corp. Tube end milling machine. 3,051,059, 8–28–62, Cl. 90—12.
Davey, James R., to Bell Telephone Laboratories, Inc. Synchronizing start-stop digital transmission system. 3,022,375, 2–20–62, Cl. 178—53.1.
Davey, James R., to Bell Telephone Laboratories, Inc. Telegraph system-hub coupling circuit. 3,038,035, 6–5–62, Cl. 178—73.
Davey, Joseph: *See*—
Tapp, Ernest T. J., and Davey. 3,054,468.
Davey, Paul H. Wear-resistant vane for rotary compressor. 3,044,684, 7–17–62, Cl. 230—152.
Davey, Thomas R. A., to Metallurgical Processes Ltd., and The National Smelting Co. Ltd., carrying business together in the Bahamas under the name and style of Metallurgical Development Co. Separation of lead and zinc. 3,031,296, 4–24–62, Cl. 75—88.
David, Andrew M. Electrical suspension device. 3,045,203, 7–17–62, Cl. 339—197.
David, Bruce F., to International Business Machines Corp. Sheet separating apparatus. 3,052,465, 9–4–62, Cl. 271—36.
David, Bruce F., and R. L. Dimmenna, to International Business Machines Corp. Sheet handling apparatus and method. 3,025,051, 3–13–62, Cl. 271—4.
David & David, Inc.: *See*—
Nichols, Victor L., and Garshelis. 3,057,015.
David, Dewey I.: *See*—
Blunt, Ray E., and David. 3,052,216.
David, Edward E., Jr., to Bell Telephone Laboratories, Inc. Autocorrelation vocoder. 3,069,507, 12–18–62, Cl. 179—15.55.
David, Edward J., to Ivers-Lee Co. Suppository package and method of making it. 3,039,246, 6–19–62, Cl. 53—29.
David, Freddy, to General Dynamics Corp. Solid state binary code multiplexing and demultiplexing device. 3,015,694, 1–2–62, Cl. 178—50.

David, Otto A., to d'Etude et de Construction de Moteurs d'Aviation, Societe Nationale. Method of and device for cooling the component elements of machines. 3,032,314, 5–1–62, Cl. 253—39.15.

Davidowich, George, and M. W. Leeds, to Air Reduction Co., Inc. Stabilization of chlorinated hydrocarbons. 3,070,635, 12–25–62, Cl. 260—652.5.

Davidse, Jan, to North American Philips Co., Inc. Color receiver cross-talk minimizing. 3,070,653, 12–25–62, Cl. 178—5.4.

Davidson, Alvin E. Tool handle adapter socket. 3,024,031, 3–6–62, Cl. 279—79.

Davidson, Charles A., to Thermotank, Inc. Ceiling air diffuser. 3,031,944, 5–1–62, Cl. 98—40.

Davidson, David, and R. M. Lusskin, to The Trubek Laboratories, Inc. 6-acetyl-1,1,2,4,4,7-hexamethyl-1,2,3,4, tetrahydronaphthalene. 3,045,047, 7–17–62, Cl. 260—592.

Davidson, Donald E., to Davidson Optronics Inc. Automatic optical measuring instrument. 3,054,323, 9–18–62, Cl. 88—14.

Davidson, Donald E., to Davidson Optronics, Inc. Indexing instrument. 3,054,901, 9–18–62, Cl. 250—233.

Davidson, Donald E., and J. K. Triplett, to Davidson Optronics, Inc. Friction lock for telescoping tubes. 3,035,-858, 5–22–62, Cl. 287—58.

Davidson, Eugene M., to Hudson Engineering Corp. Air brake for wind driven propellers. 3,038,543, 6–12–62, Cl. 170—75.

Davidson, Frithjof C. Bicycle gear shift control. 3,020,778, 2–13–62, Cl. 74—489.

Davidson and Hemmendinger: *See*—
Davidson, Hugh R. 3,032,269.

Davidson, Richard M. Sunvisor for a motor vehicle. 3,035,-864, 5–22–62, Cl. 296—97.

Davidson, Hugh R., to Davidson and Hemmendinger. Color mixture computer. 3,032,269, 5–1–62, Cl. 235—180.

Davidson, Hugh W., and J. W. Ryde, to General Electric Co. Ltd. Methods of protecting graphite surfaces. 3,070,-525, 12–25–62, Cl. 204—154.2.

Davidson, Isaac F. Adjustable motor-driven invalid chair with endless tracks. 3,068,950, 12–18–62, Cl. 180—9.24.

Davidson, Ivor M., to Power Jets (Research and Development) Ltd. Jet aircraft with jet deflector. 3,018,983, 1–30–62, Cl. 244—15.

Davidson, Ivor M., to Power Jets (Research and Development) Ltd. Jet propelled aircraft. 3,056,566, 10–2–62, Cl. 244—15.

Davidson, Ivor M. to Power Jets (Research and Development) Ltd. Aerofoil boundary layer control systems. 3,062,483, 11–6–62, Cl. 244—42.

Davidson, Ivor M., to Power Jets (Research and Development) Ltd. Aircraft stabilising system. 3,066,894, 12–4–62, Cl. 244—76.

Davidson, James J., to Radio Corp. of America. Frequency selective negative feedback recording circuitry. 3,029,317, 4–10–62, Cl. 179—100.2.

Davidson, James J., to Radio Corp. of America. Transistor amplifier circuit. 3,068,327, 12–11–62, Cl. 179—100.2.

Davidson, Joe: *See*—
Watson, James P. 3,034,094.
Watson, James P. 3,069,916.

Davidson, John T., R. D. Georgen, and R. L. Fortune, to The Standard Register Co. System for sensing. 3,044,694, 7–17–62, Cl. 235—61.11.

Davidson, John W.: *See*—
Rust, John L. 3,018,984.

Davidson, Joseph W.: *See*—
Eissmann, Oswald E., and Davidson. 3,034,646.

Davidson, Kenneth H.: *See*—
Broderson, Dean E., and Davidson. 3,064,754.

Davidson, Maxwell W., Jr., to Sanderson & Murray, Ltd. Liquid extraction apparatus. 3,057,290, 10–9–62, Cl. 100—211.

Davidson Optronics, Inc.: *See*—
Davidson, Donald E. 3,054,323.
Davidson, Donald E. 3,054,901.
Davidson, Donald E., and Triplett. 3,035,858.

Davidson, Ralph H. Fish sensing device. 3,034,246, 5–15–62, Cl. 43—17.

Davidson, Raymond L., and R. H. Hess. Vehicle overload supports. 3,038,715, 6–12–62, Cl. 267—16.

Davidson, Richard M., to Western Electric Co., Inc. Keyer circuit using rectified cut-off bias. 3,034,060, 5–8–62, Cl. 328—31.

Davidson, Sidney H., and C. J. Delp, to E. I. du Pont de Nemours and Co. Method for altering the growth characteristics of plants. 3,016,295, 1–9–62, Cl. 71—2.7.

Davidson, Thomas J., to Robertshaw-Fulton Controls Co. Control valve. 3,021,857, 2–20–62, Cl. 137—66.

Davidson, Trevor O.: *See*—
Bauer, Ralph L., and Davidson. 3,037,649.

Davidson, William A.: *See*—
Wieslander, Frederick W., Copony, Davidson, Alexander, and Smith. 3,030,015.

Davidson, William R.: *See*—
Postal, Robert H., Paxson, and Davidson. 3,039,055.

Davidson, William W., Jr. Apparatus and method for simplified photocomposition corrections. 3,041,930, 7–3–62, Cl. 88—24.

Davidson, William W., Jr., E. F. Dell, D. E. Dykaar, and W. R. Marlin, to Mergenthaler Linotype Co. Printing press. 3,048,099, 8–7–62, Cl. 101—233.

Davies, Ben, and E. P. Weaver, to Harbison-Walker Refractories Co. Refractory practices. 3,070,449, 12–25–62, Cl. 106—56.

Davies, David L., to The Solartron Electronic Group Ltd. Oscillator amplitude control. 3,024,426, 3–6–62, Cl. 331—135.

Davies, David O.: *See*—
Morley, Frederick W. W., Davies, and Grint. 3,024,624.

Davies, David O., to Rolls-Royce Ltd. Gas-turbine engine with air tapping means. 3,031,132, 2–24–62, Cl. 230—209.

Davies, David O., and F. L. Grint, to Rolls-Royce Ltd. Sealing failure sensor. 3,041,834, 7–3–62, Cl. 60—39.09.

Davies, David O., and H. F. Cantwell, to Rolls-Royce Ltd. Coordinated variable area nozzle and reheat fuel control for a gas turbine engine. 3,062,005, 11–6–62, Cl. 60—35.6.

Davies, David R., to Associated Electrical Industries (Manchester) Ltd. Mechanical handling apparatus for loading and unloading heterogeneous nuclear fuel reactions. 3,066,-089, 11–27–62, Cl. 204—193.2.

Davies, George, ⅓ to H. Wertheimer. Abrasive elements. 3,050,827, 8–28–62, Cl. 29—78.

Davies, James N. Tobacco smoking device. 3,065,756, 11–27–62, Cl. 131—181.

Davies, Kenneth L., to Hordern, Mason & Edwards Ltd. Transfer feed mechanisms. 3,061,078, 10–30–62, Cl. 198—218.

Davies Magnet Works Ltd.: *See*—
Davies, Philip M. 3,063,739.

Davies, Paul M., to Space Technology Laboratories, Inc. Cryogenic shift register utilizing current source feeding series-connected stage-chain with parallel paths in each stage. 3,056,041, 9–25–62, Cl. 307—88.5.

Davies, Philip M., to Davies Magnet Works Ltd. Trailer fifth wheel couplings. 3,063,739, 11–13–62, Cl. 280—438.

Davies, Raymond J., to Dunlop Rubber Co. Ltd. Spring assembly. 3,044,760, 7–17–62, Cl. 267—31.

Davies, Raymond J., to Dunlop Rubber Co. Ltd. Fluid spring assembly. 3,044,761, 7–17–62, Cl. 267—65.

Davies, Raymond J., and J. Turnbull, to Dunlop Rubber Co. Ltd. Pressure compensating system and device for pneumatic springs for vehicles. 3,025,076, 3–13–62, Cl. 280—104.

Davies, Raymond J., and B. F. D. Pacaud, to Dunlop Rubber Co. Ltd. Control system for pneumatic suspensions for vehicles. 3,063,734, 11–13–62, Cl. 280—124.

Davies, Robert H., to Parker-Hannifin Corp. Automatic shut-off valve. 3,020,924, 2–13–62, Cl. 137—386.

Davies, Robert H., and E. H. Badger, Jr., to Parker-Hannifin Corp. Liquid level control valve. Re. 25,236, 9–4–62, Cl. 137—390.

Davies, Robert H., and W. G. Webster, to Parker-Hannifin Corp. Variable area valve. 3,022,954, 2–27–62, Cl. 239—453.

Davies, Robert H., W. G. Webster, and C. H. Barricklow, to Parker-Hannifin Corp. Liquid fuel spray nozzle. 3,028,-102, 4–3–62, Cl. 239—404.

Davin, Joseph F., Jr. Machine for baling. 3,045,583, 7–24–62, Cl. 100—4.

Davin, Joseph M., and H. A. Hug, to American Brake Shoe Co. Friction drive apparatus. 3,043,149, 7–10–62, Cl. 74—192.

Davio, Donald A., to Minneapolis-Honeywell Regulator Co. Panel instrument attachment. 3,045,638, 7–24–62, Cl. 116—129.

Davis, Alfred, to United States of America, Army. Electronic computer for sound ranging system. 3,032,744, 5–1–62, Cl. 340—16.

Davis, Allan W., to The Fairfield Shipbuilding and Engineering Co. Ltd. Marine propulsion steam turbine installations. 3,033,002, 5–8–62, Cl. 60—102.

Davis, Allen V. C. Snap action device. 3,030,096, 4–17–62, Cl. 267—1.

Davis, Allen V. C. Sensitive pressure switch. 3,056,004, 9–25–62, Cl. 200—83.

Davis, Andrew W., to The Proctor Counter Co. Flexible counter. 3,049,315, 8–21–62, Cl. 36—28.

Davis, Ariel R. Electromagnetic device having a movable element. 3,045,152, 7–17–62, Cl. 317—166.

Davis, Ariel R. Mounting strip. 3,051,772, 8–28–62, Cl. 174—61.

Davis, Benjamin L., and W. C. Myberg, to United States of America, Navy. Tape capacitor. 3,019,150, 1–30–62, Cl. 156—184.

Davis, Bernard V., to Bristol Siddeley Engines Ltd. Machine for polishing or grinding elongated workpieces. 3,044,222, 7–17–62, Cl. 51—142.

Davis, Bernard V., to National Broach and Machine Co. Nut and screw drive device of the recirculating ball type. 3,068,713, 12–18–62, Cl. 74—424.8.

Davis, Bernard V., to National Broach and Machine Co. Nut and screw drive device of the recirculating ball type. 3,068,714, 12–18–62, Cl. 74—459.

Davis, Carl H., C. G. Grand, and V. R. Saurino, to Carlen Corp. Germicidal composition. 3,052,604, 9–4–62, Cl. 167—58.

Davis, Charles C., and C. F. Robbins, to Cutler-Hammer, Inc. Push-button operator with locking means. 3,026,385, 3–20–62, Cl. 200—44.

Davis, Charles H.: *See*—
Devon, Harry J., and Davis. 3,018,728.

Davis, Charles H., and J. B. Stringer, to National Research Development Corp. Parallel input, with channels energized randomly, to parallel output, with channels energized in preferred order means, and same in input of numerical-to-digital code converter. 3,032,267, 5–1–62, Cl. 235—172.

Davis, Charles T., and F. J. Higgins, to Continental Oil Co. Coating on printed paperboard. 3,061,456, 10–30–62, Cl. 117—45.

Davis, Charles W.: *See*—
Howe, Nathaniel S., Davis, Smith, Nesta, and Pulsifer.

Davis, Charles W., to Dunn Engineering Associates Inc. Device for predetermining length of yarn on spool. 3,029,588, 4–17–62, Cl. 57—78.

Davis, Charles W., to United States of America, Navy. Passive reflector for microwave links. 3,041,603, 6–26–62, Cl. 343—18.

Davis, Charles W., to Texaco Inc. Fuel injection pump. 3,046,905, 7–31–62, Cl. 103—161.

Davis, Charles W. V., to North American Philips Co., Inc. Magnetic separator. 3,062,376, 11–6–62, Cl. 210—222.

Davis, Claude G., to Bell Telephone Laboratories, Inc. Self timed PCM encoder. 3,026,510, 3–20–62, Cl. 340—347.

Davis, Claude G., to Bell Telephone Laboratories, Inc. Slow readout PCM encoder. 3,026,511, 3–20–62, Cl. 340—347.

Davis, Clifford A., to The Hartwell Corp. Releasable structural connector. 3,039,572, 6–9–62, Cl. 189—36.

Davis, Cloyd. Septic tank structure. 3,057,796, 10–9–62, Cl. 210—207.

Davis, Clyde O., H. H. Fassnacht, W. E. Kirst, and C. H. Noren, to E. I. du Pont de Nemours and Co. Ammonium nitrate base blasting agent. 3,052,578, 9–4–62, Cl. 149—60.

Davis, Clyde O., and J. E. Hughes, to E. I. du Pont de Nemours and Co. Blasting agent. 3,053,707, 9–11–62, Cl. 149—8.

Davis, Clyde O., and G. A. Noddin, to E. I. du Pont de Nemours and Co. Igniter for solid propellant grains. 3,062,147, 11–6–62, Cl. 102—70.

Davis, Clyde O., C. R. Johnson, and J. L. Ver Bryck, to E. I. du Pont de Nemours and Co. Explosives processing building. 3,062,153. 11–6–62, Cl. 109—1.

Davis, Clyde W.: *See*—
Murdock, Stanley A., Davis, and Ehlers. 3,029,220.
Murdock, Stanley A., Davis, and Ehlers. 3,035,009.
Murdock, Stanley A., Davis, and Ehlers. 3,036,032.

Davis, Daniel O., and L. G. McGill, to Davis & McGill, Inc. Personal inflatable life preserver. 3,042,946, 7–10–62, Cl. 9—316.

Davis, Daniel O., and L. G. McGill, to Davis & McGill, Inc. Personal inflatable life guard. 3,046,575, 7–31–62, Cl. 9—316.

Davis, David R., and H. W. Mason, to General Electric Co. Damping means. 3,034,764, 5–15–62, Cl. 253—77.

Davis, Dean W., to International Telephone and Telegraph Corp. Information storage display tube and storage screen assembly therefor. 3,031,597, 4–24–62, Cl. 315—12.

Davis, Derek E. T. Stove for grilling viands. 3,046,969, 7–31–62, Cl. 126—9.

Davis, Dexter C., Jr., J. F. Freeman, and J. G. Kura, to Coppercweld Steel Co. Powder applicator. 3,048,892, 8–14–62, Cl. 18—13.

Davis, Donald A., and C. H. Cowley, to Libbey-Owens-Ford Glass Co. Apparatus for producing all-glass multiple sheet glazing units. 3,048,943, 8–14–62, Cl. 49—1.

Davis, Donald W., to Lighting Products, Inc. Perforated lighting diffuser. 3,049,616, 8–14–62, Cl. 240—106.

Davis, Donovan C., to Gilfillan Bros. Inc. Dual polorization signal cancellation system. 3,049,703, 8–14–62, Cl. 343—5.

Davis, Donovan C., and P. M. Brown, to Gilfillan Bros., Inc. System for countermeasures. 3,021,523, 2–13–62, Cl. 343—18.

Davis, Earl K., to Bauch & Lomb Inc. Low viscosity glass compositions. 3,020,165, 2–6–62, Cl. 106—54.

Davis, Edmund P.: *See*—
Miller, James D., Gordon, and Davis. 3,043,898.

Davis, Edward E., and C. W. Taylor. Shuttle car kiln. 3,024,514, 3–13–62, Cl. 25—142.

Davis, Edward M., to Lockheed Aircraft Corp. Rotatable radome for aircraft. 3,026,516, 3–20–62, Cl. 343—705.

Davis, Edward M., to International Business Machines Corp. Photosensitive field effect unit. 3,051,840, 8–28–62, Cl. 250—211.

Davis, Elwood A., and G. Plunkett, to Frieden, Inc. Calculating machine. 3,032,263, 5–1–62, Cl. 235—73.

Davis Engineering, Inc.: *See*—
Davis, George. 3,042,234.

Davis, Ernest, to Ward Industries Corp. Body and yoke press. 3,063,606, 11–13–62, Cl. 223—57.

Davis, Ernest L.: *See*—
Davis, William E., and E. L. 3,054,622.

Davis, Eugene F., and R. H. Lace, to Riverside Paper Corp. Pulp recovery process. 3,058,871, 10–16–62, Cl. 162—5.

Davis, Eugene R., Sr., to N. N. Davis. Underwater propulsion device. 3,048,140, 8–7–62, Cl. 115—6.1.

Davis, Evan E., Jr. Naphthenate-petrolatum burn salve. 3,036,953, 5–29–62, Cl. 167—58.

Davis, Floyd E., to United States Steel Corp. Plate handling apparatus. 3,040,921, 6–26–62, Cl. 214—658.

Davis, Floyd E., and B. F. Krane, to United States Steel Corp. Rotary feeder table. 3,054,497, 9–18–62, Cl. 198—52.

Davis, Frank B., and J. L. Barkocy, to The Lamson & Sessions Co. Transfer mechanism. 3,022,526, 2–27–62, Cl. 10—76.

Davis, Frank C., to Shell Oil Co. Polyphenol preparation. 3,062,896, 11–6–62, Cl. 260—619.

Davis, Frank L. End connection for cargo tiedown chain. 3,027,614, 4–3–62, Cl. 24—116.

Davis, Frank L. Fastening for securing the webbing on litters or other constructions of a similar nature. 3,040,340, 6–26–62, Cl. 5—82.

Davis, Frank L. Safety belt and harness for confining patient to a litter. 3,046,982, 7–31–62, Cl. 128—134.

Davis, Frank L. Heavy duty tiedown buckle with remotely operable safety tension release. 3,050,799, 8–28–62, Cl. 24—68.

Davis, Frederick B., 3d, to Leeds and Northrup Co. Alternating current function generator. 3,059,853, 10–23–62, Cl. 235—197.

Davis, Frederick L., to Halliburton Co. Over-running clutch and bearing structure. 3,022,875, 2–27–62, Cl. 192—45.1.

Davis & Furber Machine Co.: *See*—
Howes, Irving C. 3,019,623.
Howes, Irving C. 3,052,111.
Koolstra, John A., and Bussiere. 3,015,931.

Davis, Gareth J., and P. C. Peropoulos, to Collins Radio Co. Chemical blanking of aluminum sheet metal. 3,035,990, 5–22–62, Cl. 204—15.

Davis, Garland H. B.: *See*—
Thwaites, Herman L., and Davis. 3,052,187.

Davis, George, to Davis Engineering, Inc. Material moving and placing apparatus. 3,042,234, 7–3–62, Cl. 214—141.

Davis, Gordon J.: *See*—
Smith, Thomas R., Davis, McNally, and Cochran. 3,035,431.

Davis, Hans. Cattle oiler. 3,055,340, 9–25–62, Cl. 119—157.

Davis, Hazel E. Lipstick holder. 3,036,702, 5–29–62, Cl. 206—56.

Davis, Herbert M., and J. E. Seaborn, to United Kingdom Atomic Energy Authority. Cathode ray polarograph. 3,065,410, 11–20–62, Cl. 324—31.

Davis, Herman E.: *See*—
McConnell, Wayne V., and Davis. 3,038,907.
Touey, George P., and Davis. 3,030,536.
Touey, George P., and Davis. 3,057,743.
Touey, George P., and Davis. 3,068,220.

Davis, Hershel L. Lip guard. 3,041,627, 7–3–62, Cl. 2—174.

Davis, Horace: *See*—
Binford, William E., Copenhaver, and Davis. 3,052,667.

Davis, Horace R.: *See*—
Errede, Louis A., Landrum, and Davis. 3,032,541.

Davis, Horace R., L. A. Errede, and B. F. Landrum, to Minnesota Mining and Mfg. Co. Aromatically unsaturated organic compounds and preparation thereof. 3,053,909, 9–11–62, Cl. 260—613.

Davis, Horace R., L. A. Errede, and B. F. Landrum, to Minnesota Mining and Mfg. Co. Aromatically unsaturated organic compounds and preparation thereof. 3,055,931, 9–25–62, Cl. 260—482.

Davis, Horace R., Jr., and D. P. Sorensen, to The M. W. Kellogg Co. Process for preparing sulfones. 3,043,879, 7–10–62, Cl. 260—607.

Davis, Howard C., to The Wooster Brush Co. Roller construction. 3,057,044, 10–9–62, Cl. 29—121.

Davis, Hubert J. Projection cabinet. 3,051,040, 8–28–62, Cl. 88—24.

Davis, Hunt: *See*—
Macaluso, Charles A., and Davis. 3,069,070.

Davis, Jack C. Wire bending machine. 3,045,740, 7–24–62, Cl. 153—64.

Davis, Jack H., to The Bendix Corp. Gain-versus-bandwidth control amplifier particularly adapted for television circuitry. 3,027,519, 3–27–62, Cl. 330—85.

Davis, Jack R.: *See*—
Harper, Billy G., and Davis. 3,067,118.

Davis, Jack W., and E. Pinsley, to United Aircraft Corp. Particle propulsion device. 3,052,088, 9–4–62, Cl. 60—35.5.

Davis, James A. Automotive axle suspension construction. 3,042,424, 7–3–62, Cl. 280—106.5.

Davis, James E., and W. A. Roos, to O. I. McCullough. Vehicular speed control system. 3,017,946, 1–23–62, Cl. 180—82.1.

Davis, James H., to Thompson Ramo Wooldridge Inc. Finishing method and apparatus. 3,039,243, 6–19–62, Cl. 51—204.

Davis, James K., to Corning Glass Works. Electrical metal oxide resistor having a glass enamel coating. 3,069,294, 12–18–62, Cl. 117—212.

Davis, James O., C. C. Fogel, and W. E. Palmer, to United States of America, Atomic Energy Commission. Method of dehydrating uranium tetrafluoride. 3,069,228, 12–18–62, Cl. 23—14.5.

Davis, Jerome I., and R. J. Enyeart, to Consolidated Diesel Electric Corp. Control mechanism for towing vehicles. 3,024,858, 3–13–62, Cl. 180—6.48.

Davis, John B.: *See*—
Barton, Derek H. R., Weedon, and Davis. 3,053,886.

Davis, John B., and R. L. Raymond, to Socony Mobil Oil Co., Inc. Oxidation of hydrocarbons. 3,057,784, 10–9–62, Cl. 195—28.

Davis, John C.: *See*—
Berry, Bernie B., Jr., Davis, May, and Young. 3,061,252.
Horne, John C., Davis, and Baker. 3,031,214.

Davis, John C. Prepayment watt-hour meter. 3,064,787, 11–20–62, Cl. 194—11.

Davis, John H., Jr.: *See*—
Kuzell, Charles R., Fowler, Davis, Klein, and MacDougall. 3,051,467.

Davis, John P.: *See*—
Brooks, Earnest, and Davis. 3,029,048.

Davis, John S., to Equitable Paper Bag Co. Inc. Method of making handled carrying bags. 3,040,633, 6–26–62, Cl. 93—35.

Davis, John W., to Girling Ltd. Hydraulic master cylinder. 3,060,691, 10–30–62, Cl. 60—54.6.

Davis, Joseph E., and G. Schiess, to Sylvania Electric Products, Inc. Color television receiver with screen grid-keyed chroma amplifier. 3,052,752, 9–4–62, Cl. 178—5.4.

Davis, Kenneth J., to National Broach & Machine Co. Pressure feeding apparatus for a gear honing machine. 3,017,-728, 1–23–62, Cl. 51—165.

Davis, Kingsbury H., and A. C. Norwine, to Bell Telephone Laboratories, Inc. Continuous recording system with indexing means. 3,024,321, 3–6–62, Cl. 179—100.4.

Davis, Leonard: *See*—
Thompson, John E. 3,034,816.

Davis, Lewis. Musical drums. 3,019,685, 2–6–62, Cl. 84—411.

Davis, Louis M., to Mitchell Metal Products, Inc. Collapsible ladder. 3,031,029, 4–24–62, Cl. 182—198.

Davis, Loyal H., H. Arkin, and O. L. Updike, Jr., to Philip Morris, Inc. Apparatus for measuring and recording values. 3,043,507, 7–10–62, Cl. 235—151.

Davis, Luther, Jr., to Raytheon Co. Microwave strip transmission line circulators. 3,063,024, 11–6–62, Cl. 333—9.

Davis, Luther, Jr., to Raytheon Co. Orientation of ferrites. 3,067,140, 12–4–62, Cl. 252—62.5.

Davis, Marvin L.: *See*—
Price, Earl R., Blair, and Davis. 3,032,064.

Davis & McGill, Inc.: *See*—
Davis, Daniel O., and McGill. 3,042,946.
Davis, Daniel O., and McGill. 3,046,575.

Davis, Merlin. Electronic musical instrument. 3,015,979, 1–9–62, Cl. 84—1.18.

Davis, Merlin, to United States of America, Commerce. Seebeck-peltier flowmeter. 3,030,806, 4–24–62, Cl. 73—204.

Davis, Michael: *See*—
Ashley, Julius N., Collins, and Davis. 3,052,722.
Collins, Raymond F., and Davis. 3,060,190.

Davis, Mike B. Skate seat coaster. 3,039,784, 6–19–62, Cl. 280—87.02.

Davis, Murray W. Knife rack. Re. 25,196, 7–3–62, Cl. 248—37.6.

Davis, Nathan W. Elastomer and process of producing same. 3,055,819, 9–25–62, Cl. 204—162.

Davis, Neil L.: *See*—
Fuller, Isaac W., Jr., and Davis. 3,035,264.
White, Roger E., Fuller, and Davis. 3,049,707.

Davis, Nelson L. Sink and float separation apparatus. 3,028,962, 4–10–62, Cl. 209—172.5.

Davis, Newell N.: *See*—
Davis, Eugene R., Sr. 3,048,140.

Davis, Noel, to Integrated Development and Mfg. Co. Window operating apparatus. 3,056,599, 10–2–62, Cl. 268—21.

Davis, Paul F. Process for the hydrogenation of phosphatides. 3,026,341, 3–20–62, Cl. 260—403.

Davis, Pearl C., to Westinghouse Electric Corp. Refrigeration apparatus. 3,019,071, 1–30–62, Cl. 312—308.

Davis, Ralph M., E. A. Shuxteau, and E. E. Long, to Container Corp. of America. Produce tray with end wall bellows lock. 3,036,753, 5–29–62, Cl. 229—31.

Davis, Raymond C.: *See*—
Mathues, Thomas O., Beck, Davis, and Forward. 3,042,-137.
Overman, Guy R., and Davis. 3,035,297.
Waag, Harry O., and Davis. 3,018,636.

Davis, Raymond L., II, to Leeds and Northrup Co. Measurement and control of constituent potentials. 3,058,815, 10–16–62, Cl. 23—255.

Davis, Richard E.: *See*—
Nitka, Norbert J., and Davis. 3,026,677.
Wiedmann, Ernst, Davis, and Grad. 3,065,740.

Davis, Robert C.: *See*—
Press, Martin, and Davis. 3,054,102.

Davis, Robert E., to General Motors Corp. Patterned and coated ice tray. 3,033,008, 5–8–62, Cl. 62—357.

Davis, Robert E., Jr.: *See*—
Davis, Robert E., Sr., and R. E., Jr. 3,046,573.

Davis, Robert E., Sr., and R. E., Jr. Reversible automobile arm rest pillow. 3,046,573, 7–31–62, Cl. 5—337.

Davis, Robert F., ½ to E. M. Ogelvie. Garment trimmer. 3,018,932, 1–30–62, Cl. 223—1.1.

Davis, Robert G., J. N. Haimsohn, and J. T. Bashour, to Stauffer Chemical Co. Manufacture of boron trichloride. 3,025,138, 3–13–62, Cl. 23—205.

Davis, Robert G., H. Goldfarb, and J. F. Heiss, to Stauffer Chemical Co. Process for making boron trichloride. 3,025,-139, 3–13–62, Cl. 23—205.

Davis, Robert S., to Scientific Design Co., Inc. Heat storage in chemical processes. 3,037,346, 6–5–62, Cl. 60—39.02.

Davis, Roderic A., to International Business Machines Corp. Digit-by-digit decimal core matrix multiplier. 3,055,586, 9–25–62, Cl. 235—160.

Davis, Roderic A., and G. E. Olson, to International Business Machines Corp. Magnetic core binary counter. 3,063,038, 11–6–62, Cl. 340—174.

Davis, Rodger W.: *See*—
Thieblot, Armand J., and Davis. 3,056,335.

Davis, Ross A. Antenna system with output means in parallel with resonating means. 3,066,293, 11–27–62, Cl. 343—767.

Davis, Roy C., to The Guiberson Corp. Anchoring device. 3,043,372, 7–10–62, Cl. 166—140.

Davis, Roy C., to The Guiberson Corp. Tubing protectors. 3,047,025, 7–31–62. Cl. 138—106.

Davis, Roy C., to The Guiberson Corp. Adapter assembly. 3,047,071, 7–31–62, Cl. 166—124.

Davis, Russell S.: *See*—
Herrmann, John A., Davis, Hickey, Wood, and Rauhauser. 3,066,273.

Davis, Selby B.: *See*—
Semb, Joseph, Vaughan, and Davis. 3,037,988.

Davis, Sidney: *See*—
Spencer, Leland H., and Asher. 3,045,495.

Davis, Steven S., to The Eimco Corp. Web control means. 3,069,921, 12–25–62, Cl. 74—241.

Davis, Stuart. Measuring cutter. 3,057,066, 10–9–62, Cl. 31—16.

Davis, Thomas E.: *See*—
Byrnes, Peter A., Jr., Davis, and Mener. 3,048,690.

Davis, Thomas E., to Bell Telephone Laboratories, Inc. Positioning a transistor by use of the optical reflectance characteristics of the electrode stripes. 3,068,369, 8–12–62, Cl. 88—14.

Davis, Thomas E., to Bell Telephone Laboratories, Inc. Diode impedance tester. 3,048,779, 8–7–62, Cl. 324—158.

Davis & Thompson Co.: *See*—
Rosenthal, Paul E. 3,053,017.

Davis, Vincent C., to California Research Corp. Detonation pick-up and igniter unit. 3,020,763, 2–13–62, Cl. 73—389.

Davis, Walter B., to Portable Electric Tools, Inc. Edge guide for use with powered hand saws. 3,043,351, 7–10–62, Cl. 143—133.

Davis, Warren F., Menasha Container of California, Division of Menasha Wooden Ware Corp. Shipping crate. 3,017,064, 1–16–62, Cl. 229—16.

Davis, Wayne K. Method and means for the application of chemicals to trees and other woody plants. 3,068,087, 12–11–62, Cl. 71—2.1.

Davis, Wilbur A., 5% to H. F. and D. M. Wagner, and 12% to Rivard Bros. Inc. Crankcase drain plug wrench. 3,020,790, 2–13–62, Cl. 81—119.

Davis, Wilbur A., 10% to Rivard Brothers Inc., 5% to H. W. Trinkle, and M. E. Trinkle, jointly. Door assembly. 3,048,-898, 8–14–62, Cl. 20—16.

Davis, Wilbur A. End wrench with slidable jaw insert. 3,062,079, 11–6–62. Cl. 81—129.

Davis, Wilbur M. Electric motor. 3,069,575, 12–18–62, Cl. 310—34.

Davis, William E.: *See*—
Conner, Willard P., Jr., and Davis. 3,065,159.

Davis, William E., to Ford Motor Co. Universal joint. 3,016,-721, 1–16–62, Cl. 64—21.

Davis, William E. Tobacco harvesters. 3,034,664, 5–15–62, Cl. 214—85.

Davis, William E. and E. L.; said W. E. Davis, assor. to said E. L. Davis. Handcart for game. 3,054,622, 9–18–62, Cl. 280—41.

Davis, William F. Toe stop. 3,028,171, 4–3–62, Cl. 280—11.2.

Davis, William F. Machinery for fluid transfer and apportioning. 3,037,450, 6–5–62, Cl. 101—350.

Davis, William F. Means for dispensing and apportioning fluids. 3,037,451, 6–5–62, Cl. 101—350.

Davis, William H., to Socony Mobil Oil Co., Inc. Utilization of reformer make-gas. 3,069,351, 12–18–62, Cl. 208—89.

Davis, William J., to The Polymer Corp. Porous polyamide articles and process for the production thereof. 3,022,542, 2–27–62. Cl. 18—55.

Davis, William J., to The Bendix Corp. Cathode ray tube display. 3,027,485, 3–27–62, Cl. 315—24.

Davis, William L., Jr., to United States Steel Corp. Fluidized-bed reactor. 3,037,848, 6–5–62, Cl. 23—284.

Davis, William W., to Sperry Rand Corp. Signal translating and shifting circuits. 3,066,283, 11–27–62, Cl. 340—174.

Davis, Winfield H. Rotary abrader brush adapter. 3,056,-158, 10–2–62, Cl. 15—181.

Davison, Cyril R.: *See*—
Basto, Julio H., Capp, Davison, and Garbaden. 3,037,-951.

Davison, Lloyd W.: *See*—
Maggio, Paul J., and Davison. 3,026,126.

Davison, Robert W., to Hercules Powder Co. Application of coating or impregnating materials to fibrous material. 3,049,469, 8–14–62, Cl. 162—164.

Davisson, Robert F.: *See*—
White, James M., Cardwell, Davisson, and Brooks. 3,023,800.

Davo Haardenfabriek, N.V.: *See*—
Van Der Esch, Henri. 3,039,307.

Davol Rubber Co.: *See*—
Birtwell, William C. 3,044,468.
Birtwell, William C. 3,053,257.
Moreau, William J., and Nodine. 3,046,988.
Rasmussen, Kai, Hanson, and Colwell. 3,035,691.

Davy, John C., and I. Pavlic, to International Computers and Tabulators Ltd. Punching apparatus. 3,064,881, 11–20–62, Cl. 234—107.
Davy, Robert E., to Master Machine Corp. of San Diego. Golf ball washing machine having hopper means for feeding balls and liquid thereto. 3,038,186, 6–12–62, Cl. 15—21.
Davy, Russell W., J. S. Arnold, Jr., and S. Vajda. Blast furnace apparatus. 3,067,991, 12–11–62, Cl. 266—31.
Davy and United Engineering Co. Ltd. : *See*—
Clark, Patrick A., Stubbs, and Bloomfield. 3,015,528.
Clark, Patrick A., Stubbs, and Bloomfield. 3,020,108.
Sims, Raymond B. 3,022,688.
Davyso, Samuel, 65% to S. Brown. Buoyant bathing and swim suit. 3,023,433, 3–6–62, Cl. 9—336.
Daw Corp., The : *See*—
Holcombe, Ralph L. 3,026,608.
Dawe, Vernon, to Dawes Laboratories, Inc. Feed containing an arsenical and polyvinylpyrrolidone. 3,015,564, 1–2–62, Cl. 99—2.
Dawes, Bailey P. Outboard drive and rudder. 3,051,121, 8–28–62, Cl. 115—42.
Dawes, Herbert G., to L. Petragalla. Self-propelled fish lure. 3,065,564, 11–27–62, Cl. 43—26.2.
Dawes Laboratories, Inc. : *See*—
Dawe, Vernon. 3,015,564.
Holstein, Arthur G., and Holsong. 3,050,444.
Dawes, Leslie A. : *See*—
Boyce-Smith, William I., and Powell. 3,051,523.
Dawes, Leslie J., to The Bendix Corp. Hydraulic connecting structure. 3,051,510, 8–28–62, Cl. 285—31.
Dawes, Reginald G., to The Plessey Co. Ltd. End switches in or for adjustable elements. 3,059,198, 10–16–62, Cl. 338—163.
Dawihl, Walther : *See*—
Klingler, Emil, and Dawihl. 3,032,427.
Dawkins, James P. : *See*—
Eads, George L., and Dawkins. 3,060,835.
Dawsey, Lynn H. Process for preparing amylanthraquinone. 3,032,560, 5–1–62, Cl. 260—369.
Dawsey, Lynn H. Production of hydrogen peroxide. 3,041,143, 6–26–62, Cl. 23—207.
Dawson Armoring Co. : *See*—
Dawson, Chester H. 3,023,490.
Dawson, Chester H. 3,024,128.
Dawson, Chester H., to Dawson Armoring Co. Armored metal articles with a thin hard film made in situ and conforming to the exact contour of the underlying surface. 3,023,490, 3–6–62, Cl. 29—194.
Dawson, Chester H., to Dawson Armoring Co. Method of coating metal article with hard particles. 3,024,128, 3–6–62, Cl. 117—22.
Dawson, James J., and A. K. Watt, to General Motors Corp. Liquid fuel reserve systems. 3,031,011, 4–24–62, Cl. 158—46.5.
Dawson, John, to Ericsson Telephones Ltd. Delay line pulse stores. 3,065,304, 11–20–62, Cl. 179—15.
Dawson, Joseph C. Liquid dispensing apparatus. Re. 25,172, 5–15–62, Cl. 222—318.
Dawson, Joseph C., and R. P. Millard, to Ferguson Fumigants, Inc. Fumigation of grain. 3,041,684, 7–3–62, Cl. 21—121.
Dawson, Joseph C., and R. G. Cathcart, to Ferguson Fumigants, Inc. Fluid dispensing apparatus. 3,058,538, 10–16–62, Cl. 177—70.
Dawson, Milton K., to Koppers Co., Inc. Mold filling device. 3,028,625, 4–10–62, Cl. 18—5.
Dawson, Norman D. : *See*—
Croxall, Willard J., and Dawson. 3,021,341.
Croxall, Willard J., and Dawson. 3,048,598.
Dawson, Philip J., and K. G. A. Lawrie, to Minister of Supply, in Her Majesty's Government of the United Kingdom of Great Britain and Northern Ireland. Projectiles for mortars and like projectors. 3,023,704, 3–6–62, Cl. 102—94.
Dawson, Robert A. J. Marine method. 3,025,678, 3–20–62, Cl. 61—46.5.
Dawson, Robert H., and R. R. Dahl, to The Dole Valve Co. Ice tray drive assembly. 3,021,687, 2–20–62, Cl. 62—135.
Dawson, Roger N., to The Plessey Co. Ltd. Testing of dielectric materials. 3,046,478, 7–24–62, Cl. 324—58.
Dawson, Ross R., to Allied Chemical Corp. Process for dyeing polyolefins. 3,069,220, 12–18–62, Cl. 8—55.
Dawson-Vogel Engineering Co. : *See*—
Vogel, Arthur E. 3,026,125.
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Dawson, William H., Jr. : *See*—
Simpson, Duncan W., and Dawson. 3,015,894.
Day, Alan R. A., to Armstrong Patents Co. Ltd. Hydraulic shock absorbers. 3,020,981, 2–13–62, Cl. 188—100.
Day, Charles F. Barrel rubbish disposal unit. 3,018,945, 1–30–62, Cl. 232—44.
Day, Charles F. Flashproof side wall mounted flue port. 3,021,051, 2–13–62, Cl. 232—44.
Day, Cyril L. : *See*—
Toohig, Michael F., and Day. 3,015,586.
Day, Cyril L., to International Telephone and Telegraph Corp. Method of making bowl-shaped fine mesh screens for electron discharge tubes. 3,017,687, 1–23–62, Cl. 29—25.18.
Day, Cyril L., to International Telephone and Telegraph Corp. Method of making target electrode for barrier storage grid tube. 3,020,622, 2–13–62, Cl. 29—25.18.
Day, Cyril L., to International Telephone and Telegraph Corp. Method and apparatus for assembling photo tubes. 3,026,163, 3–20–62, Cl. 316—21.
Day, Cyril L., to International Telephone and Telegraph Corp. Target electrode for barrier grid storage tube and method of making same. 3,067,486, 12–11–62, Cl. 29—25.18.
Day, Harold R. Envelopes. 3,051,371, 8–28–62, Cl. 229—85.
Day, Harold R., Jr., to General Electric Co. Storage electrode structure and method of making. 3,020,433, 2–6–62, Cl. 313—68.
Day, Harry W. : *See*—
Wick, Edward J., and Day. 3,060,874.
Day, Herbert W. : *See*—
Gebrig, Albert K., and Day. 3,046,644.
Day, Kelly B., Jr., to International Business Machines Corp. Synchronization of phase of (dividing) counter output pulses by continually resetting counter with data pulses. 3,069,568, 12–18–62, Cl. 307—88.5.
Day, Lawrence, J. Dobrick, and A. Kay, to Spitfire Tool and Machine Co., Inc. Lapping machines. 3,032,937, 5–8–62, Cl. 51—128.
Day, Leslie, and W. A. MacNerland. Method for installing lubricating devices in journal boxes of railroad cars and the like. 3,065,522, 11–27–62, Cl. 29—149.5.
Day, Marion C., Jr., to The Dow Chemical Co. Preparation of propadiene. 3,052,740, 9–4–62, Cl. 260—680.
Day, Maurice J., and J. A. Stavrolakis, to Crucible Steel Co. of America. Self-healing coatings for refractory metals and method for applying the same. 3,038,817, 6–12–62, Cl. 117—69.
Day, Paul T., Jr., to American Metalcare Systems, Inc. Prefabricated building structure and panels comprising the same. 3,051,277, 8–28–62, Cl. 189—1.
Day, Ralph R., and R. W. Fabere, to Caterpillar Tractor Co. Systems for automatically neutralizing a vehicle transmission upon application of brakes. 3,050,165, 8–21–62, Cl. 192—13.
Day, Robert C. Frog grappling implement. 3,041,102, 6–26–62, Cl. 294—110.
Day, Robert G., to Gulton Industries, Inc. Electro-optical scanning system. 3,036,153, 5–22–62, Cl. 178—7.1.
Day, Russell. Ski-scrapers. 3,041,650, 7–3–62, Cl. 15—236.
Day, William M., to Landers, Frary & Clark. Coffee percolator. 3,040,649, 6–26–62, Cl. 99—312.
Day, William M., to Carrier Corp. Air distribution apparatus. 3,068,776, 12–18–62, Cl. 98—40.
Day, Winterton U. : *See*—
Bletzinger, John C., and Day. 3,035,577.
Bletzinger, John C., and Day. 3,067,746.
Harwood, Kenneth J., Bletzinger, and Day. 3,029,817.
Day, Winthrop : *See*—
Bickel, Richard L., Brooke, Day, McDonald, Millis, and Nygaard. 3,039,604.
Day-Brite Lighting, Inc. : *See*—
Halfaker, Thomas C. 3,051,430.
Dayco Corp. : *See*—
Adinoff, Bernard, and Wilson. 3,068,523.
Brown, Ernest R. 3,033,709.
Cole, Austin, III. 3,026,183.
Wagner, William T. 3,025,741.
Wagner, William T. 3,044,918.
Dayger, Jonas E., R. J. Salani, Jr., R. R. Hailey, G. J. Laurer, and P. V. Babel, to International Business Machines Corp. Card to tape converter. 3,029,019, 4–10–62, Cl. 235—61.6.
Daymon, Deall, to Curtiss-Wright Corp. Aiming means for a solar heater. 3,028,856, 4–10–62, Cl. 126—270.
Daymon, Deall, to Curtiss-Wright Corp. Solar cooker. 3,038,463, 6–12–62, Cl. 126—270.
Daymon, Deall. Solar cooking device and reflector. 3,053,248, 9–11–62, Cl. 126—270.
Daystrom, Inc. : *See*—
Bailey, Edwin M. 3,016,464.
Bamford, John W. 3,059,200.
Blanco, Elias. 3,034,542.
De Mott, Elmer G., Stegner, and Stolar. 3,026,478.
Badie, Edward M., Jr. 3,042,840.
Estoppey, Royden F. 3,034,052.
Gilbert, Roswell W. 3,042,912.
Gilbert, Roswell W. 3,051,939.
Gonzenbach, Kurt E. 3,034,125.
Kwast, Victor B. 3,067,376.
La France, Lionel J. 3,068,412.
Lender, Robert J. 3,040,253.
Lender, Robert J. 3,052,847.
Lovegrove, Henry J. 3,068,408.
Lovegrove, Henry J., and Smith. 3,023,621.
Mace, Ellis R. 3,020,422.
Miller, John H. 3,035,227.
Nagy, John, Jr. 3,058,612.
Oschmann, Ronald G. 3,030,504.
Pierson, Vaughn F. 3,066,534.
Rupley, Don G. 3,030,591.
Schmitz, Herman J., Jr. 3,058,347.
Sonatore, Anthony T. 3,068,413.
Thurston, Bryan O. 3,058,370.
Upton, Ernest F., Jr. 3,070,744.
Willis, William M. H. 3,069,593.
Dayton Aircraft Products, Inc. : *See*—
Benkoczy, Andrew J., and Grant. 3,034,020.

Dayton, David R., A. J. Michaud, and A. J. Viscosi, to Sylvania Electric Products Inc. Lighting fixture. 3,069,-537, 12–18–62, Cl. 240—51.11.

Dayton Malleable Iron Co., The: *See*—
Crome, Lester C. 3,042,513.

Dayton Rubber Co., The: *See*—
Waddell, Russell B., Jr. 3,036,340.

Dayton Steel Foundry Co., The: *See*—
Dotto, Gianni A. 3,064,765.
Dotto, Gianni A. 3,064,768.
Walther, Daniel A. 3,039,824.
Walther, Daniel A. 3,061,377.

Dayton, Theodore S. Mount for telescope sights. 3,045,351, 7–24–62, Cl. 33—50.

Dayton Tire & Rubber Co., The: *See*—
James, Donlin. 3,057,578.
Monteith, Victor St. C., and Wyman. 3,018,511.

Dayton, Walter J.: *See*—
Hayter, Richard B. 3,023,003.

Dayton, Ward D. Machine for forming and driving staples and for binding books thereby. 3,021,525, 2–20–62, Cl. 1—7.

Dayton, Ward D. Book binding means and books bound thereby. 3,022,093, 2–20–62, Cl. 281—25.

Dazey Corp., The: *See*—
Smith, Barry L. 3,066,409.

Dazey, Mitchell H. Resonant cavity electrical transducer. 3,031,626, 4–24–62, Cl. 331—37.

Dazey, Mitchell H., to Space Technology Laboratories, Inc. Fast discharge device. 3,052,819, 9–4–62, Cl. 315—242.

Dazzi, Joachim, to Monsanto Chemical Co. Vinyl chloride polymers plasticized with adducts of fumarate esters and alkenyl-substituted aromatic compounds. 3,048,558, 8–7–62, Cl. 260—31.8.

Dazzi, Joachim, to Monsanto Chemical Co. Vinyl chloride polymers plasticized with fumarate adducts. 3,053,780, 9–11–62. Cl. 260—23

Deacon, Alan J., and E. N. McKee, to Anaconda American Brass Co. Extrusion container cleaning apparatus. 3,041,-647, 7–3–62, Cl. 15—104.1.

Deacon, George P. Electric heating panel. 3,056,011, 9–25–62, Cl. 219—19.

Deacon, James S. Foundry flasks reconditioning devices. 3,064,709, 11–20–62, Cl. 153—32.

Deacon, William G. T., Golesworthy, E. L. Hartley, and P. Martin, to Power Jets (Research & Development) Ltd. Combustion chamber for a gas turbine power plant provided with a rotating fuel atomizer and a flame stabilizing inlet structure. 3,020,718, 2–13–62, Cl. 60—39.74.

Deady, Emmett F.: *See*—
Reed, Stanley E., Reed, and Deady. 3,048,678.
Reed, Stanley F., and Deady. 3,050,279.

Deady, Frederick W., Jr., and G. A. White, to Carrier Corp. Burner lighting system. 3,053,315, 9–11–62. Cl. 158—115.

Deady, William F. Resiliently supported rider-actuated apparatus. 3,037,769, 6–5–62, Cl. 272—53.1.

Deakin, Stanley T., to Sealectro Corp. Plug type electric-circuit selector. 3,027,534, 3–27–62, Cl. 339—18.

Deakin, Stanley T., to Siemens Edison Swan Ltd. Electrical plug-in type contact pins. 3,027,538, 3–27–62, Cl. 339—195.

Deakin, Stanley T., to Siemens Edison Swan Ltd. Electronic equipment. 3,038,093, 6–12–62, Cl. 257—263.

Deakin, Stanley T., to Sealectro Corp. Electrical socket contacts. 3,047,832, 7–31–62, Cl. 339—217.

Deakin, Stanley T., to Associated Electrical Industries (Woolwich) Ltd. Manufacture of multiple contact devices. 3,069,751, 12–25–62, Cl. 29—155.5.

Deal, Bruce E., and L. Swanson, to Kaiser Aluminum & Chemical Corp. Anodic oxidation of aluminum. 3,031,387, 4–24–62, Cl. 204—58.

Deal, Carl H., Jr.: *See*—
Anderson, Ralph, and Deal. 3,050,573.

Deal, Cletis H. Welding implement. 3,053,970, 9–1–62, Cl. 219—105.

Deal, Donald A.: *See*—
Harmes, Oren B., Therlkeld, and Deal. 3,058,668.

Deal, Elmer F., to Litholplate, Inc. Acrylic acid monomer coatings for metal bases. 3,064,562, 11–20–62, Cl. 101—149.2.

Deam, Arnold E.: *See*—
Remke, John L., Reed, and Deam. 3,046,512.

Dean, Albert G., to The Budd Co. Car body and truck assembly with truck bolster stabilizing means. 3,020,857, 2–13–62, Cl. 105—199.

Dean, Albert G., and H. P. Bauer, to The Budd Co. Roof-to-sidewall connection for vehicles. 3,066,621, 12–4–62, Cl. 105—401.

Dean, Charles L. Garbage can rack. 3,016,149, 1–9–62, Cl. 211—71.

Dean, Frank E. Quick-draw timing apparatus. 3,054,614, 9–18–62. Cl. 273—1.

Dean, Frank E. Timing apparatus. 3,065,963, 11–27–62, Cl. 273—1.

Dean, Fred: *See*—
Taylor, Arthur W. C., and Dean. 3,064,043.
Taylor, Arthur W. C., and Dean. 3,064,046.

Dean, Fred, and C. B. Cotterill, to Imperial Chemical Industries Ltd. Use of metal salts to promote esterification. 3,053,883, 9–11–62. Cl. 260—475.

Dean, George J., to Fairchild Camera and Instrument Corp. Camera shutter-timing apparatus. 3,065,387, 11–20–62, Cl. 317—142.

Dean, Gordon W., to Minneapolis-Honeywell Regulator Co. Relay-controlled, spring-operated valve. 3,033,280, 5–8–62, Cl. 158—123.

Dean, James T.: *See*—
Hodges, Hayden D., and Dean. 3,044,298.

Dean, John K., Jr., to General Electric Co. Electromagnetic relay. 3,033,957, 5–8–62, Cl. 200—104.

Dean, Lloyd G., C. W. McCutchen, and A. C. Doumas, to The Dow Chemical Co. Diborane manufacture. 3,024,091, 3–6–62, Cl. 23—204.

Dean Mfg., Inc.: *See*—
Selby, Ernest E., and Knapp. 3,022,247.

Dean, Marjorie L. Bow making form. 3,021,038, 2–13–62, Cl. 223—46.

Dean, Noel S., and B. J. Wardley, to British Insulated Callender's Cables Ltd. Wire twisting machines. 3,067,781, 12–11–62, Cl. 140—149.

Dean, Noel S., and R. F. Tarbox, to British Insulated Callender's Cables Ltd. Wire twisting machines. 3,067,-782, 12–11–62, Cl. 140—149.

Dean, Noel S., and R. F. Tarbox, to British Insulated Callender's Cables Ltd. Haul-off devices. 3,069,108, 12–18–62, Cl. 242—82.

Dean, Orlen C.: *See*—
McCormick, Kenneth H., Kleinsteuber, Schilling, and Dean. 3,035,895.

Dean, Ralph K., E. J. Slatkovski, and H. E. Wegner, to National Distillers and Chemical Corp. Ventilated metal awning. 3,015,135, 1–2–62, Cl. 20—57.5.

Dean, Reginald S. Pure manganese crystal intergrowths. 3,029,136, 4–10–62, Cl. 75—134.

Dean, Reginald S., to Chicago Development Corp. Electro-refining metals. 3,029,193, 4–10–62, Cl. 204—1.5.

Dean, Robert B.: *See*—
Kline, Milton W., Dean, and Loshack. 3,069,390.

Dean, Robert C., Jr., and B. Auksmann, to Ingersoll-Rand Co. Rock drill. 3,060,894, 10–30–62, Cl. 121—16.

Dean, Robert C., Jr., and A. Shavit, to Ingersoll-Rand Co. Positive steam flow control in condensers. 3,061,273, 10–30–62, Cl. 257—43.

Dean, Robert, Jr.: *See*—
Colbaco, Roscoe R., Dean, and Ruland. 3,041,445.

Dean, Walter B., and H. W. Wessells, III, to The Budd Co. Automobile body front end construction. 3,044,822, 7–17–62, Cl. 296—28.

Dean, Walter L., A. M. Dowell, Jr., and J. S. James, Jr., to The Hackney Cellulose Corp. Production of regenerated cellulose filaments from wood pulp. 3,034,910, 5–15–62, Cl. 106—165.

Dean, William M. Fresh air injection for combustion exhaust systems. 3,058,299, 10–16–62, Cl. 60—30.

Deane, Theodore E., to The Bendix Corp. Instrumented apparatus for testing friction materials. 3,059,464, 10–23–62, Cl. 73—9.

De Angelus, Millet R.: *See*—
Dersch, Fritz, and De Angelus. 3,023,103.
Dersch, Fritz, and De Angelus. 3,046,130.

Deanin, Rudolph D., and Lied Chemical Corp. Rigid vinyl chloride resins and processes for their production. 3,068,-211, 12–11–62, Cl. 260—80.5.

Deans, Frederick E.: *See*—
Wainwright, Carlyle H., and Deans. 3,022,652.

Deans, Frederick E., to The Bentley Engineering Co. Ltd. Circular knitting machines. 3,068,673, 12–18–62, Cl. 66—14.

Deans, Frederick E., and C. H. Wainwright, to The Bentley Engineering Co. Ltd. Circular knitting machines of the superimposed needle cylinder type. 3,057,176, 10–9–62, Cl. 66—14.

Deans, William, to I-T-E Circuit Breaker Co. Housing for bus run. 3,020,329, 2–6–62, Cl. 174—16.

Dear, Hing D.: *See*—
Saroyan, John R., and Dear. 3,033,809.

Dearborn Chemical Co.: *See*—
Denman, Wayne L., and Kerst. 3,019,195.
Gunderson, Lewis O. 3,025,313.
Wallen, Alphonse R. 3,019,118.

Dearborn Electronic Laboratories of Delaware, Inc.: *See*—
Simpson, Raymond J. 3,016,481.
Svrchek, Joseph G., and Rae. 3,028,257.

Dearborn, Elizabeth C., and P. K. Isaacs, to W. R. Grace & Co. Reaction mixture derived from oleic acid, sebacic acid and triethylene tetramine. 3,050,527, 8–21–62, Cl. 260—309.6.

Dearborn, Elizabeth C., and P. K. Isaacs, to W. R. Grace & Co. Reaction product of oleic acid, sebacic acid and triethylene tetramine. 3,050,528, 8–21–62. Cl. 260—309.6.

Dearborn, Elizabeth C., and P. K. Isaacs, to W. R. Grace & Co. Carboxylic acid-polyamine reaction mixture. 3,050,529, 8–21–62. Cl. 260—309.6.

Dearborn Gage Co.: *See*—
Schonfield, Maurice J. 3,028,677.

Dearborn, Howard K. Pontoon boat. 3,052,202, 9–4–62, Cl. 114—61.

Dearborn, Lawrence E.: *See*—
Marston, William H., and Dearborn. 3,033,585.

Deardorff, George A.: *See*—
Wilson, Ross D., and Deardorff. 3,017,648.

Dearing, Anderson G. Tire retreading machine. 3,056,448, 10–2–62, Cl. 156—411.

Dearing, Arthur G. Ore upgrader. 3,062,458, 11–6–62, Cl. 241—19.

Dearing, Arthur G. Two stage centrifugal impact pulverizing apparatus with annular elastomeric concaves. 3,062,459, 11–6–62, Cl. 241—43.

De Armond, James L.: *See*—
Marble, Franklin D., Juniper, and De Armond. 3,049,158.

Dearsley, George, to American Machine & Foundry Co. Apparatus for making cigarettes. 3,036,581, 5–29–62, Cl. 131—94.

Dearsley, George. Cigarette catcher. 3,039,606, 6–19–62, Cl. 209—111.5.

Dearsley, George, to American Machine & Foundry Co. Mouthpiece feed. 3,067,644, 12–11–62, Cl. 83—402.

Deaton, Charles U.: *See*—
Graber, Carl D., Deaton, Mason, and Bryant. 3,028,074.

Deaton, Charles U. Means for attaching hollow tubular elements to solid structures. 3,028,037, 4–3–62, Cl. 218—50.

Deaton, Charles U., to Diebold, Inc. Vault door construction. 3,029,753, 4–17–62, Cl. 109—59.

Deaton, William M.: *See*—
Brandt, Luther, Stroud, and Deaton. 3,027,750.

De Back, William, to FMC Corp. Casing machine. 3,067,554, 12–11–62, Cl. 53—157.

Debackere, Joseph A.: *See*—
Woodcock, Edward C., Cauwe, and Debackere. 3,067,920.

De Barbieri, Ettore, and F. Gatti. Spoon-shaped swim-fin. 3,019,458, 2–6–62, Cl. 9—309.

De Bardelaben, William C., Jr. Partition unit. 3,055,527, 9–25–62, Cl. 217—22.

Debarre, Francois: *See*—
Gailliot, Paul, Dabarre, and Cometti. 3,035,076.

De Bartolomeis, Remo, to Forni ed Impianti Industriali Ingg de Bartolomeis, S.p.A. Device for equalizing rapid variations of temperature at predetermined points in tunnel type kilns, particularly in kilns for the firing of ceramic products. 3,050,811, 8–28–62, Cl. 25—142.

De Baun, John E. Combined safety razor blade and guard assembly. 3,015,159, 1–2–62, Cl. 30—47.

De Baun, John E. Bicycle driving mechanism. 3,047,310, 7–31–62, Cl. 280—261.

Debay, Andre, to Societe Francaise de Recherches Biochimiques H. Besson & Cie. Cholinphosphoric acid salts and production thereof. 3,016,399, 1–9–62, Cl. 260—461.

De Beausacq, Alfred R. Safety tensioning levers for skis. 3,052,482, 9–4–62, Cl. 280—11.35.

Debeh, Ali. Educational toy. 3,032,893, 5–8–62, Cl. 35—13.

De Beixedon, Philip C. Multiple fluke folding anchor. 3,022,-761, 2–27–62, Cl. 114—208.

De Bell & Richardson, Inc.: *See*—
Larson, Wesley S., and Qualey. 3,053,726.

De Bella, Isabelle D. Apparatus for attaching a manometer to a hospital bed. 3,024,474, 3–13–62, Cl. 5—317.

De Benneville, Peter L., and R. O. Steele, to Rohm & Haas Co. 2,6 dioxaspira (3.3) heptane treated cellulose fabric and the production thereof. 3,024,080, 3–6–62, Cl. 8—120.

De Benneville, Peter L., and H. W. Blessing, to Rohm & Haas Co. Trichlorinated cyanoester. 3,064,035, 11–13–62, Cl. 260—465.4.

De Beurs, Johannes. Anti-pitch stabilizers for ships. 3,018,-749, 1–30–62, Cl. 114—126.

De Biasi, Charles P. Pusher blade assembly for truck bodies. 3,050,203, 8–21–62, Cl. 214—82.

De Bie, Wilhelmus P., to Dorr-Oliver Inc. Clamp. 3,036,354, 5–29–62, Cl. 24—243.

De Boer, Albert: *See*—
Van Dreven, Hermanus, and De Boer. 3,067,566.

De Boer, Clarence: *See*—
Bergy, Malcolm E., De Boer, Dietz, Eble, Herr, and Johnson. 3,027,300.

De Boer, Clarence, T. E. Eble, and C. M. Large, to The Upjohn Co. Fervenulin and its production. 3,022,220, 2–20–62, Cl. 167—65.

De Boer, Henri G. J., and E. D. G. Frahm, to Lichtdrukpapierfabriek "de Atlas," N.V. Material for diazotype processes. 3,039,872, 6–19–62, Cl. 96—91.

De Boer, Willis, and J. F. Conte, to Optical Gaging Products Inc. Contour scriber. 3,055,114, 9–25–62, Cl. 33—23.

De Boo, Jerome L., to Teletype Corp. Adjustable width tape reel. 3,025,016, 3–13–62, Cl. 242—71.9.

De Boo, Jerome L., to Teletype Corp. Variable width tape guide means for perforating machine. 3,035,471, 5–22–62, Cl. 83—449.

De Booys, Jacob, and J. L. Timmers, to American Enka Corp. Process for manufacturing thermoplastic granules. 3,032,-821, 5–8–62, Cl. 18—47.5.

De Bolt, Donald G.: *See*—
McBride, Joseph R., and De Bolt. 3,070,680.

De Brabander, Maria M.: *See*—
Vegter, Geert C., and De Brabander. 3,065,274.

Debrie, André V. L. C. Arrangement with polarizing grating for the photographic establishment of filters with black and white networks. 3,049,051, 8–14–62, Cl. 88—24.

Debrie, Andre V. L. C. Device for applying liquid to a film in photographic apparatus. 3,052,157, 9–4–62, Cl. 88—24.

De Britz, Francis M., and A. A. Wisco, to Westinghouse Electric Corp. Process of treating coiled articles. 3,048,200, 8–7–62, Cl. 140—71.

De Brosse, Kenneth L., and E. Behun, to International Telephone and Telegraph Corp. Cooling system. 3,025,680, 3–20–62, Cl. 62—132.

De Brosse, Kenneth L., and J. M. Lewis, to International Telephone and Telegraph Corp. Scanning apparatus. 3,060,755, 10–30–62, Cl. 74—22.

De Bruyn, Hendrik E., to North American Philips Co., Inc. Device for working metals. 3,047,707, 7–31–62, Cl. 219—69.

De Bruyn, William T., to Grand Rapids Hardware Co. Combined weatherstrip and sash balance. 3,037,250, 6–5–62, Cl. 20—52.4.

De Bruyne, Marinus A., B. G. M. Hoedemakers, and J. W. Hoogendonk, to Stamicarbon, N.V. Prilling device. 3,055,-049, 9–25–62, Cl. 18—2.6.

Debs, Jerome H., to Chicago Metallic Mfg. Co. Multiple baking pan assembly. 3,032,233, 5–1–62, Cl. 220—23.2.

Debs, Jerome H., to Chicago Metallic Mfg. Co. Food package. 3,037,677, 6–5–62, Cl. 229—5.6.

Debuch, Hildegard: *See*—
Klenk, Ernst, Debuch, Eikermann, and Lappe. 3,031,-478.

De Buhr, Harold E., to Deere & Co. Bale-handling mechanism. 3,057,455, 10–9–62, Cl. 214—83.32.

Debus, Karl, to Mergenthaler Linotype Co. Line casting machines. 3,020,999, 2–13–62, Cl. 199—56.

Debus, Klaus. Process of producing an additional dynamic pressure on the road for rapid-braking of road vehicles. 3,062,327, 11–6–62, Cl. 188—5.

De Busse, Helen. Automatic cleaning and polishing device. 3,055,032, 9–25–62, Cl. 15—97.

De Butts, Edward H., to Hercules Powder Co. Dimethyl titanium dichloride. 3,021,349, 2–13–62, Cl. 260—429.5.

De Butts, Edward H., and A. S. Matlack, to Hercules Powder Co. Polymerization of ethylene with alkyl titanium halide catalysts. 3,021,319, 2–13–62, Cl. 260—44.4.

Decamp, André E. Artificial flower structure. 3,041,766, 7–3–62, Cl. 41—13.

De Carle, John T. Bifocal corneal contact lens. Re. 25,286, 11–13–62, Cl. 88—54.5.

De Carle, John T. Bifocal corneal contact lens. 3,037,425, 6–5–62, Cl. 88—54.5.

De Caro, Charles J.: *See*—
Gilman, Charles B., and De Caro. 3,041,906.
Henning, Robert W., and De Caro. 3,063,054.
Pfaff, Elmer F., and De Caro. 3,060,440.

De Caro, Charles J., to Olin Mathieson Chemical Corp. Fastener device. 3,040,326, 6–26–62, Cl. 1—44.5.

De Caro, Charles J., to Olin Mathieson Chemical Corp. Two piston explosive actuated fastener driving tool. 3,061,833, 11–6–62, Cl. 1—44.5.

De Caro, Charles J., and R. J. Kopf, to Olin Mathieson Chemical Corp. Explosively powered apparatus. 3,048,849, 8–14–62, Cl. 1—44.5.

De Caro, Charles J., and R. W. Henning, to Olin Mathieson Chemical Corp. Tool. 3,060,436, 10–30–62, Cl. 1—44.5.

De Caro, Charles J., R. W. Henning, and H. L. Ivins, to Olin Mathieson Chemical Corp. Power tool. 3,066,302, 12–4–62, Cl. 1—44.5.

Decatur, Paul S.: *See*—
Smith, Thomas R., and Decatur. 3,035,429.

Decca Ltd.: *See*—
Howell, Ronald T. A., and Young. 3,045,188.
Matthews, Robert, and Johnston. 3,045,071.

Decca Record Co. Ltd., The: *See*—
Collis, Ronald T. H., Welch, and Cowlard. 3,041,604.
Easy, Maurice H., and Schneider. 3,025,513.
Matthews, Robert. 3,029,428.
Moran, Michael J. 3,031,651.
Parker, Bernhard D. 3,041,476.

De Cenzo, Herbert A., to On Mark Couplings, Inc. Quick disconnect coupling for high pressure fluids. 3,039,794, 6–19–62, Cl. 284—19.

Dechaux, Charles. Dry shaver with rocking cutter. 3,028,668, 4–10–62, Cl. 30—43.

De Chelbor, William J., to Novo Industrial Corp. Plastic carrying case for bottles. 3,045,862, 7–24–62, Cl. 220—102.

De Chelbor, William J., to Novo Industrial Corp. Bottle carrying case. 3,045,863, 7–24–62, Cl. 220—102.

De Chelbor, William J., to Novo Industrial Corp. Carrying case with partitions. 3,055,531, 9–25–62, Cl. 220—21.

Déchet, Robert: *See*—
Moressée, Georges, and Déchet. 3,059,323.

Deckel, Friedrich W.: *See*—
Ostler, Josef. 3,024,376.
Zwick, Kurt. 3,055,272.
Zwick, Kurt. 3,060,813.
Zwick, Kurt. 3,069,154.

Deckel, Hans: *See*—
Ostler, Josef. 3,024,376.
Zwick, Kurt. 3,055,272.
Zwick, Kurt. 3,060,813.
Zwick, Kurt. 3,069,154.

Decker, Elmer L.: *See*—
Willis, Robert S. 3,029,093.

Decker, Elmer L., and R. C. McNeill, to Martin-Decker Corp. Load-sensing dead line anchor. 3,045,480, 7–24–62, Cl. 73—144.

Decker, Harry J.: *See*—
Freure, Benjamin T., and Decker. 3,024,266.
Freure, Benjamin T., and Decker. 3,026,346.
Freure, Benjamin T., and Decker. 3,026,347.

Decker, Harry L., to The Pennsylvania Railroad Co. Snubber device. 3,070,043, 12–25–62, Cl. 105—369.

Decker, Jacob: *See*—
Grove, George L., and Decker. 3,046,710.
Decker, Jacob, to The Cincinnati Milling Machine Co. Machine tool spindle construction. 3,019,066, 1–30–62, Cl. 308—187.1.
Decker, Jacob, to The Cincinnati Milling Machine Co. Grinding machine rapid advance motor. 3,034,265, 5–15–62, Cl. 51—165.
Decker, Jacob, to The Cincinnati Milling Machine Co. Mounting construction for machine tool member. 3,050,912, 8–28–62, Cl. 51—237.
Decker, Jacob, and B. H. Steinhard, to The Cincinnati Milling Machine Co. Grinding machine feed mechanism. 3,018,590, 1–30–62, Cl. 51—165.
Decker, Jacob, and A. D. C. Stuckey, to The Cincinnati Milling Machine Co. Machine tool construction to eliminate effect of expansion in members. 3,043,056, 7–10–62, Cl. 51—50.
Decker, Molly. Musical jumping rope. 3,049,961, 8–21–62, Cl. 84—404.
Decker, Robert M., and N. B. Nichols, to Taylor Instrument Companies. Automatic to manual switching system for controller. 3,069,554, 12–18–62, Cl. 307—64.
De Claire, Bernard V.: *See*—
Keder, Ernest A., and De Claire. 3,028,003.
De Claris, Nicholas, J. G. Jelatis, and M. F. Silverstein, to Universal Controls, Inc. Document verifier. 3,031,076, 4–24–62, Cl. 209—111.5.
De Coene, Robert, to Solvic Societe Anonyme. Polymerization process with alkyl boron catalysts. 3,025,285, 3–13–62, Cl. 260—92.8.
De Coene, Robert, and A. Mathieu, to Solvic Societe Anonyme. Polymerization of olefinic compounds in the presence of catatysts having a trialkyl boron base. 3,041,324, 6–26–62, Cl. 260—928.
De Coene, Robert, and A. Mathieu, to Solvic Societe Anonyme. Polymerisation of olefinic compounds in the presence of catalysts having a trialkyl boron base. 3,067,185, 12–4–62, Cl. 260—92.8.
De Construction de Material d'Alimentation, Societe Anonyme: *See*—
Hi, Louis. 3,043,318.
De Cordova, Sam F. Pipe cutter. 3,031,015, 4–24–62, Cl. 166—55.6.
De Coriolis, Ernest G., incompetent (by P. de Coriolis, guardian), and C. C. Sykes, to Midland-Ross Corp. Metal article treating apparatus. 3,019,007, 1–30–62, Cl. 266—4.
De Coriolis, Pierre: *See*—
De Coriolis, Ernest G., and Sykes. 3,019,007.
De Cormier, Francis S.: *See*—
Kahan, George J., and de Cormier. 3,058,842.
Theodoseau, Nicholas, Kahab, Da Silva, and De Cormier. 3,023,727.
De Corte, Michael A., and J. F. Bird, to Ford Motor Co. Single orifice fluid pressure governor mechanism. 3,022,-631, 2–27–62, Cl. 60—52.
Decot, Harold T., and L. Stone, to United Shoe Machinery Corp. Fastener packages. 3,067,424, 12–11–62, Cl. 1—56.
Decoulos, John J., to Boston Machine Works Co. Mechanism for folding margins. 3,035,288, 5–22–62, Cl. 12—55.
De Crasne, Edmond P.: *See*—
Cantalupo, Francis J., De Craene, and Doelger. 3,034,-371.
De Crease, William M.: *See*—
Jenkins, David M., and De Crease. 3,022,196.
De Curtis, Joseph, and H. L. Ferragamo. Jewelry catch. 3,020,614, 2–13–62, Cl. 24—232.
Dederick, Clinton H., to The Emerson Electric Mfg. Co. Electric motor bearing lubrication system. 3,030,157, 4–17–62, Cl. 308—132.
Dedmon, George D., to Singer-Cobble, Inc. Apparatus for sewing separate yarns into the same row of stitching. 3,056,364, 10–2–62, Cl. 112—79.
De Dobbeleer, Gilbert D. P., to Universite de Louvain. Stereotaxical methods and apparatus. 3,061,936, 11–6–62, Cl. 33—174.
Dedoes, Arnold A. Paint mixing receptacles. 3,021,118, 2–13–62, Cl. 259—43.
Dedoes, Arnold A. Paint mixing and blending apparatus. 3,041,052, 6–26–62, Cl. 259—122.
Dee, Kevin D., and L. G. K. Carr. Electrical connector. 3,064,229, 11–13–62, Cl. 339—118.
Dee, Thomas P.: *See*—
Bradley, John K., Dee, and Sheldrick. 3,047,379.
Deeg, Adolf: *See*—
Kaüfer, Helmut, Deeg, and Schwab. 3,064,795.
Deegan, George M.: *See*—
Allen, Richard E., and Deegan. 3,042,550.
Deeken, Carl L.: *See*—
Watt, Robert E., and Deeken. 3,017,062.
Deeks, Douglas B. Steam traps. 3,042,363, 7–3–62, Cl. 251—362.
Deely, Carroll L. Drive extension for Kelly joints for rotary drilling rigs. 3,038,547, 6–12–62, Cl. 175—195.
Deely, Carroll L. Reamer. 3,051,255, 8–28–62, Cl. 175—265.
Deems, Frank E., to Continental Gin Co. Pneumatic feed means for fiber press. 3,025,785, 3–20–62, Cl. 100—90.
Deenik, Johan F., and J. A. Eisses, to Everts & Van Der Weyden N.V Fastener of a rail on a support by means of a resilient clamp. 3,067,947, 12–11–62, Cl. 238—315.
Deer, James W., and A. E. Sprando, to Iron Fireman Mfg. Co. Electric relay. 3,018,347, 1–23–62, Cl. 200—87.
Deere & Co.: *See*—
Ackley, John W. 3,060,872.
Beard, Lawrence R. 3,049,939.
Bopf, Edward C. 3,040,443.
Cox, Robert E., and Sullivan. 3,045,765.
Creighton, John H. 3,028,694.
De Buhr, Harold E. 3,057,455.
Dhuicq, Andre P. 3,050,163.
Du Shane, Wallace H. 3,017,200.
Du Shane, Wallace H., and Olsen. 3,040,596.
Forth, Murray W., Roll, and Jenkins. 3,052,192.
Frank, William R. 3,047,075.
French, John L. 3,069,791.
French, John L., Termont, and Gunn. 3,032,215.
Graham, Karl I. 3,031,828.
Gustafson, Blaine W. 3,019,586.
Gustafson, Blaine W. 3,031,835.
Gustafson, Blaine W. 3,065,591.
Hadley, Howard C. 3,049,127.
Hansen, Harold V. 3,027,050.
Hansen, Harold V. 3,038,425.
Hayes, John B. 3,030,758.
Hess, Christian H. 3,022,830.
Hess, Christian H. 3,022,831.
Hess, Christian H., and Horney. 3,048,228.
Horney, David C. 3,053,552.
Hubbard, Arthur L. 3,028,718.
Hubbard, Arthur L. 3,030,757.
Hubbard, Arthur L. 3,043,075.
Hubbard, Arthur L. 3,047,996.
Hubbard, Arthur L. 3,047,997.
Hubbard, Arthur L. 3,048,219.
Hubbard, Arthur L. 3,048,962.
Hubbard, Arthur L. 3,066,466.
Hubbard, Wallace L., and Essex. 3,050,111.
Johnson, Ellsworth T. 3,018,598.
Johnson, Ellsworth T., and Peak. 3,031,829.
Johnson, James N., and McVanse. 3,070,246.
Johnson, John G. 3,057,428.
Johnson, Leslie W. 3,023,817.
Johnson, Leslie W. 3,046,916.
Jones, Frank D. 3,025,654.
Knapp, William E., and Lohrman. 3,016,958.
Knapp, William E., and Wadelton. 3,037,357.
Knollman, Melvin L. 3,065,590.
Lippke, Donald E. 3,070,243.
Lohrman, William V. 3,049,184.
Love, Mahlon L. 3,049,022.
Markham, David R., and Kessler. 3,050,927.
Martens, Maurice J. 3,032,219.
McClellan, Marcus E. 3,059,384.
McCollum, Jack W. 3,070,175.
Morrison, Charles S., and Denison. 3,030,756.
Morrison, Charles S., and Forth. 3,043,418.
Northcote, John A., and Hall. 3,043,082.
Oehler, William P., and Hansen. 3,019,032.
Oehler, William P., and Hansen. 3,055,322.
Ochler, William P., and Hansen. 3,059,705.
Oerman, Orey W., and Cox. 3,063,504.
Oerman, Orey W., and Sullivan. 3,049,181.
Peterson, Kenneth R. 3,045,804.
Polzin, Donald H. 3,048,304.
Polzin, Donald H. 3,070,267.
Polzin, Donald H., and Quick. 3,028,999.
Rasmussen, Clarence T., and Creighton. 3,038,266.
Rasmussen, Clarence T., and Creighton. 3,048,933.
Schnell, Ernst E. 3,027,180.
Schnell, Ernst E. 3,049,936.
Schnell, Ernst E. 3,051,347.
Silverberg, Bernard M., and Jones. 3,070,393.
Skromme, Arnold B. 3,045,841.
Skromme, Arnold B., and Wilkes. 3,037,780.
Sorensen, Knud B., and Bjerkan. 3,022,754.
Sorensen, Knud B., and Bjerkan. 3,023,718.
Sorensen, Knud B., and Bjerkan. 3,062,159.
Troemner, James O., and Pearson. 3,059,742.
Tsuchiya, William S. 3,037,562.
Walhof, Elmer, J. B. and P. A. 3,036,688.
Weakly, Marlin E. 3,025,882.
Youmans, Donald W., and Tone. 3,060,968.
Young, William A., and Johnson. 3,046,723.
Youngberg, Charles H. 3,021,906.
Deeren, Thomas J., and C. T. Hinds, to Owens-Illinois Glass Co. Corner pad. 3,061,166, 10–30–62, Cl. 229—14.
Deering, Joseph M., to GPE Controls, Inc. Web control sensing nozzle. 3,039,483, 6–19–62, Cl. 137—83.
Deering Milliken Research Corp.: *See*—
Bolinger, Edgar D. 3,021,588.
Bolinger, Edgar D. 3,035,328.
De Fore, Ernest O., Cox, Ott, Atkinson, and Garrison. 3,055,603.
Evans, Cyril G. 3,025,584.
Evans, Cyril G. 3,028,653.
Evans, Cyril G. 3,028,654.
Freeman, Lawson B. 3,070,052.
Gagarine, Dmitry M. 3,027,247.
Habib, Emile E. 3,044,898.
Ingham, Robert M., Jr. 3,024,887.
Ingham, Robert M., Jr. 3,031,059.
Ingham, Robert M., Jr. 3,044,733.
Ingham, Robert M., Jr. 3,059,405.
Ingham, Robert M., Jr. 3,059,406.

Deering Milliken Research Corp.: *See*—Continued
Klein, Norman E. 3,023,494.
Klein, Norman E. 3,041,815.
Klein, Norman E. 3,066,472.
Kluemmerer Henry R. 3,061,470.
Pittman, Edgar H. 3,017,684.
Pittman, Edgar H., and Bolinger. 3,047,932.
Sanders, Grady H., and Jones. 3,019,588.
Sell, Francis M. 3,058,850.
Smith, Philip N. 3,044,699.
Wise, George S., Jr. 3,049,859.
Deering, Roland F., and G. E. Irish, to Union Oil Co. of California. Shale oil eduction process. 3,058,904, 10–16–62, Cl. 208—11.
Deery, James H.: *See*—
Anderson, Maynard E., Farran, and Deery. 3,033,423.
Deex, Oliver DeS., and J. D. Calfee, to Monsanto Chemical Co. Ethylene interpolymers and process. 3,025,268, 3–13–62, Cl. 260—77.5.
De Falco, Joseph J.: *See*—
Gruber, Joseph J., and De Falco. 3,049,199.
Gruber, Joseph J., and De Falco. 3,068,535.
De Faller, George J., O. V. Tatum, and N. R. Livingston. Pneumatic sander. 3,019,567, 2–6–62, Cl. 51—170.
Defandorf, John L., R. R. Hackbarth, A. A. Kraus, and V. S. Sywulka. Switchboard-type of cabinet for electrical control apparatus. 3,066,244, 11–27–62, Cl. 317—120.
De Faymoreau, Etienne: *See*—
Roberts, William L., and De Faymoreau. 3,030,620.
De Faymoreau, Etienne C. L.: *See*—
Adams, Paul R., and de Faymoreau. 3,048,044.
De Faymoreau, Etienne C. L., to International Telephone and Telegraph Corp. Distance measuring system providing interrogation rate control. 3,054,103, 9–11–62, Cl. 343—13.
De Faymoreau, Etienne C. L., and J. A. Baudin, to International Telephone and Telegraph Corp. Delay compensation in telemetering systems. 3,051,948, 8–28–62, Cl. 343—105.
Defazio, Charles A.: *See*—
Kray, Raymond J., and Defazio. 3,026,299.
Defenser A.G.: *See*—
Flury, Karl. 3,053,458.
Defensor AG.: *See*—
Flury, Karl. 3,044,752.
De Feo, Angelo: *See*—
Howald, Werner E., and De Feo. 3,048,376.
De Feo, John J.: *See*—
Guilbert, Nicholas R., Jr., and De Feo. 3,051,269.
De Feo, Richard J.: *See*—
Tyson, Charles W., De Feo, and Arey. 3,026,176.
De Fezzy, Albert, G. P. Hanley, W. S. Kenyon, and J. A. Peak, to General Motors Corp. Rocker arm and multiple valve actuating mechanism. 3,021,826, 2–20–62, Cl. 123—90.
De Fezzy, Albert, and J. O. McVicar, to General Motors Corp. Gear pump and relief valve. 3,023,706, 3–6–62, Cl. 103—42.
Defiance Button Machine Co.: *See*—
Orlando, John B., Ruggiero, and Coppola. 3,067,639.
De Filipi, Giovanni B. Animal stanchion appliance. 3,046,-941, 7–31–62, Cl. 119—148.
De Fino, Anthony T. Universal sleeve tool. 3,015,422, 1–2–62, Cl. 223—74.
Defiandre, René, to Derefa, Etablissements pour le Development, Recherches et Fabrications Industrielles. Societe dite. Milling and boring machine. 3,037,430, 6–5–62, Cl. 90—17.
Defiandre, Rene, to Societe dite: Derefa Etablissements pour le Developement, Recherches et Fabrications Industrielles. Cooling system for rotatable machine components, especially in machine tools. 3,062,104, 11–6–62, Cl. 90—11.
De Flines, Jan: *See*—
Szpilfogel, Stefan A., Mijs, De Flines, and Van der Waard. 3,031,445.
De Floria, Robert N.: *See*—
Woodward, Cyril H. T., and De Floria. 3,027,031.
Deflorin, Alberto, and A. Maeder, to Ciba Ltd. New polymerization products and process for their manufacture. 3,051,688, 8–28–62, Cl. 260—86.1.
Defontenay, Paul. Speed regulating system. 3,035,784, 5–22–62, Cl. 242—45.
De Ford, Ambrose A., to Gee-Bee, Inc. Bowling apparatus. 3,056,604, 10–2–62, Cl. 273—43.
De Ford, Donald D., to Phillips Petroleum Co. Chromatographic analyzer. 3,038,326, 6–12–62, Cl. 73—23.
De Ford, Donald D., to Phillips Petroleum Co. Chromatographic analyzer. 3,057,183, 10–9–62, Cl. 73—23.
De Ford, Donald D., and B. O. Ayers, to Phillips Petroleum Co. Thermochromatography heater. 3,043,127, 7–10–62, Cl. 73—23.
Deford, Donald E., and D. K. Dye, to General Motors Corp. Shaft coupling. 3,046,759, 7–31–62, Cl. 64—11.
De Fore, Ernest O., F. S. Cox, H. D. Ott, E. J. Atkinson, and P. J. Garrison, Jr., to Deering Milliken Research Corp. Bobbin and yarn handling apparatus and method. 3,055,-603, 9–25–62, Cl. 242—35.5.
De Fore, John W.: *See*—
Naul, Robert F., and De Fore. 3,068,884.
De Forest, Taber, to Magnaflux Corp. Method of non-destructive analysis for latent defects. 3,034,334, 5–15–62, Cl. 73—15.4.
De Forest, Taber. Flash light assembly for underwater use. 3,042,796, 7–3–62, Cl. 240—6.4.
De Frees, Joseph H. Bottom loading emergency valve. 3,029,-833, 4–17–62, Cl. 137—414.
De Frees, Joseph H. Chemical emergency valve. 3,065,949, 11–27–62, Cl. 251—62.
De Frumerie, Nils: *See*—
Conradi, Henrik, De Frumerie, and Andersson. 3,041,-954.
Dega, Robert L., to General Motors Corp. Centrifuge for separating three components. 3,022,937, 2–27–62, Cl. 233—28.
Dega, Robert L., to General Motors Corp. Lip seal gauge. 3,030,800, 4–24–62, Cl. 73—37.5.
Dega, Robert L., to General Motors Corp. Seal lip instrumentation. 3,034,043, 5–8–62, Cl. 324—34.
Dega, Robert L., to General Motors Corp. High temperature bond and method of forming same. 3,047,938, 8–7–62, Cl. 29—182.3.
Dega, Robert L., to General Motors Corp. Rotary shaft fluid seal. 3,053,541, 9–11–62, Cl. 277—67.
Dega, Robert L., to General Motors Corp. High temperature seal. 3,068,016, 12–11–62, Cl. 277—96.
De Galocsy, Zsigmond. Iron refining process. 3,030,202, 4–17–62, Cl. 75—51.
Dege, August W., to Heyden Newport Chemical Corp. Recovery of trimethylolalkanes. 3,037,060, 5–29–62, Cl. 260—637.
Dege, Gerald J., and J. S. MacKenzie, to Allied Chemical Corp. Process for preparing alkali metal metaborates. 3,025,134, 3–13–62, Cl. 23—59.
De Geer, Hans H.: *See*—
Winnlert, Erik G. N., De Geer, and Berggren. 3,066,711.
De Gelleke, Gerrit, to Cameron Machine Co. Web-roll changing mechanisms for winding machines. 3,030,042, 4–17–62, Cl. 242—56.
Degen, Hugo. Supporting frame structure. 3,067,438, 12–11–62, Cl. 5—237.
Degener, Eberhard: *See*—
Walz, Walther, Rosch, Degener, Klappert, and Petersen. 3,058,991.
De George, Peter J., to International Business Machines Corp. Navigation system. 3,028,079, 4–3–62, Cl. 235—61.6.
De George, Peter J., and G. F. Kennard, to International Business Machines Corp. Navigation system. 3,028,078, 4–3–62, Cl. 235—61.6.
Deger, Thomas E.: *See*—
Goshorn, Roland H., Buchholz, and Deger. 3,036,133.
Deger, Thomas E., B. Buchholz, and R. H. Goshorn, to Pennsalt Chemicals Corp. Novel catalytic process for preparation of mercaptans by reaction of H_2S with alcohols or ethers. 3,035,097, 5–15–62, Cl. 260—609.
Deger, Thomas E., and H. Q. Smith, to Pennsalt Chemicals Corp. Propellants containing N,N'-dialkyltriethylenediammonium dinitrates. 3,063,880, 11–13–62, Cl. 149—18.
Degginger, Howard R.: *See*—
Beauchamp, William D., Booth, Degginger. 3,016,404.
Deghenghi, Romano, to American Home Products Corp. Preparation of 17α-methyletianic acids. 3,041,358, 6–26–62, Cl. 260—397.1.
Deghuee, Rex P.: *See*—
Deghuee, Emerson R., and Deghuee. 3,021,879.
Degoli, Werner J., to Sana-Silver Corp. Silver ion bactericidal composition. 3,035,968, 5–22–62, Cl. 167—14.
De Graff, Peter, to Viking Mfg. Co. Vertical deviation detector for roadways and roadway forms. 3,037,294, 6–5–62, Cl. 33—174.
De Graffenried, Albert L., to Avien, Inc. Indicating means. 3,038,097, 6–5–62, Cl. 313—108.
De Graffenried, Albert L., and W. A. Folsom. Electronic tool run-out indicator for use in deep boring operations. 3,020,786, 2–13–62, Cl. 77—3.
De Grandpre, Etienne, to General American Transportation Corp. Systems of freight transportation. 3,033,129, 5–8–62, Cl. 105—368.
De Grandpre, Etienne, to General American Transportation Corp. Combination road and railway vehicle. 3,063,385, 11–13–62, Cl. 105—215.
De Grandpre, Etienne, to General American Transportation Corp. Railway cars. 3,063,389, 11–13–62, Cl. 105—414.
De Grave, Charles J., Jr.: *See*—
Boughton, Olin W., De Grave, and Maier. Re. 25,115.
De Grave, Charles J., Jr., and H. W. Straat, to Bausch & Lomb Inc. Substage lighting means for microscopes. 3,016,795, 1–16–62, Cl. 88—40.
De Gray, Richard J., to The Standard Oil Co. Motor fuel containing substituted oxazoline compounds. 3,033,661, 5–8–62, Cl. 44—53.
De Gray, Richard J., to The Standard Oil Co. Motor fuel containing substituted oxazoline compounds. 3,033,663, 5–8–62, Cl. 44—63.
De Gray, Richard J., and S. H. Belden, to The Standard Oil Co. Novel borated compounds. 3,030,375, 4–17–62, Cl. 260—307.
De Gray, William G. Folding portable baby crib. 3,025,536, 3–20–62, Cl. 5—99.
De Grazia, Joseph, to United States of America, Army. Neck shield for protective helmet. 3,046,560, 7–31–62, Cl. 2—6.
De Greef, Robert: *See*—
Schoberle, Robert, and De Greef. 3,021,200.
Degremont ACFI: *See*—
Leviel, Roger, and Croce-Spinelli. 3,068,172.

De Groot, Howard S.: *See*—
Ahara, Edward V., Johnson, De Groot, and Stalmuke. 3,051,125.
Brown, Robert C., De Groot, and Stalmuke. 3,030,917.
De Groot, Wilhelmus C., H. N. H. De Haan, and R. W. Van den Bosch, to Shell Oil Co. Electrical insulating oils. 3,044,955, 7–17–62, Cl. 208—212.
De Groote, Melvin, to Petrolite Corp. Oxyalkylated phenol-aldehyde resins. 3,038,881, 6–12–62, Cl. 260—58.
De Groote, Melvin, to Petrolite Corp. Certain polyoxyalkylene glycol esters. 3,057,890, 10–9–62, Cl. 260—407.
De Groote, Melvin, to Petrolite Corp. Certain polyoxyalkylene glycol esters. 3,057,891, 10–9–62, Cl. 260—407.
De Groote, Melvin, to Petrolite Corp. Certain polyoxyalkylene glycol esters. 3,057,892, 10–9–62, Cl. 260—407.
De Groote, Melvin, and J. P. Cheng, to Petrolite Corp. Method of inhibiting the growth of sulfate reducing bacteria in water flooding processes. 3,049,492, 8–14–62, Cl. 252—8.55.
De Groote, Melvin, and K.-T. Shen, to Petrolite Corp. Froth flotation process employing polyamino methyl phenols. 3,056,498, 10–2–62, Cl. 209—166.
De Groote, Melvin, and K.-T. Shen, to Petrolite Corp. Polyaminomethyl phenols. 3,060,210, 10–23–62, Cl. 260—404.5.
De Groote, Melvin, and J.-P. Cheng, to Petrolite Corp. Reaction product of epoxidized fatty acid esters of lower alkanols and polyamino compounds. 3,065,247, 11–20–62, Cl. 260—404.5.
De Groote, Melvin, and J.-P. Cheng, to Petrolite Corp. Reaction product of polyols and epoxidized fatty compounds. 3,066,159, 11–27–62, Cl. 260—404.
De Gruil, Jan.: *See*—
Van Tetterode, Floris. 3,023,139.
De Gryse, Gentiel: *See*—
Blecker, Vincent C., Pearson, Weaver, and De Gryse. 3,054,023.
De Gryse, Gentiel M., J. W. Otis, and J. A. Weber, to The Gamewell Co. Vibration-resistant escapements. 3,053,041, 9–11–62, Cl. 58—116.
De Haan, Edward F.: *See*—
Diemer, Gesinus, Duinker, De Haan, and Van Santen. 3,056,887.
Spaa, Jacob H., and de Haan. 3,015,729.
De Haan, Hubertus N. H.: *See*—
De Groot, Wilhelmus C., De Haan, and Van den Bosch. 3,044,955.
De Haan, Wolbert, to General Motors Corp. Truck platform bed attachment. 3,028,193, 4–3–62, Cl. 296—35.
De Haas, Max: *See*—
D'Aloisio, Elio F., and De Haas. 3,063,317.
De Halleux, Pierre. Grass shearing machine with horizontal knife. 3,029,582, 4–17–62, Cl. 56—25.4.
De Halleux, Pierre, and R. P. King; said de Halleux assor. to said King. Discharge mechanism for stationary towers. 3,036,484, 10–2–62, Cl. 198—127.
De Haven, Clark G., to Phillips Petroleum Co. Ammonia oxidation process. 3,027,235, 3–27–62, Cl. 23—162.
De Haven, Clark G., to Phillips Petroleum Co. Melt index apparatus. 3,048,030, 8–7–62, Cl. 73—56.
De Havilland Engine Co. Ltd., The: *See*—
Allen, Francis D., and Milford. 3,053,283.
Bell, Francis R. 3,035,875.
Bell, Francis R. 3,068,372.
Bell, Francis R., and Preece. 3,035,878.
Simonis, Edward A. 3,058,695.
De Heer, Talbert Jans, and J. J. Erkelens, to Nederlandse Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek ten behoeve van de Volksgezondheid. Anemometer. 3,064,473, 11–20–62, Cl. 73—189.
De Hemptinne, Reginald: *See*—
De la Kéthulle, de Ryhove, Jacques, Schoolmeester, and De Hemptinne. 3,030,279.
De Hilster, Cornelis C., to Pennsalt Chemicals Corp. Vulcanized rubber stabilized with zinc bis (benzamidarozyl mercaptide). 3,062,779, 11–6–62, Cl. 260—45.9.
Dehn, Joseph W., and E. Vroom, to Bell Telephone Laboratories, Inc. Magnetic recording and analyzing of traffic observations. 3,016,189, 1–9–62, Cl. 235—61.6.
Dehn, Joseph W., Jr., R. Eltonhead, and R. A. Pizzarello, to Interchemical Corp. 2-amino-4, 6-dinitrobenzothiazole and azo dyestuffs therefrom. 3,057,848, 10–9–62, Cl. 260—158.
Dehn, Roy F.: *See*—
Anderson, Ralph P., and Dehn. 3,031,950.
Dehn, Roy F., to The Cleveland Crane & Engineering Co. Press brake. 3,046,874, 7–31–62, Cl. 100—256.
Dehn, Roy F., to The Cleveland Crane & Engineering Co. Current collector. 3,047,681, 7–31–62, Cl. 191—45.
Dehn, Roy F., to The Cleveland Crane & Engineering Co. Hydraulic press brake. 3,062,132, 11–6–62, Cl. 100—256.
Dehn, Roy F., and W. E. Ward, to The Cleveland Crane & Engineering Co. Double action draw press. 3,052,200, 9–4–62, Cl. 113—38.
Dehn, William F., to Allen-Bradley Co. Adjustable actuating arm. 3,041,888, 7–3–62, Cl. 74—559.
Dehne, Clarence A., to Jervis B. Webb Co. Mechanism for propeling a load carrying vehicle between main and branch lines of a material handling system. 3,044,415, 7–17–62, Cl. 104—172.
Dehnert, Johannes, and R. Gehm, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. 1 : 2 chromium and cobalt complexes of monoazo dyes containing a 1-aza-4-thiacyclohexane-4,4-dioxide substituents. 3,045,003, 7–17–62, Cl. 260—147.
De Huff, Philip G.: *See*—
Sherman, Jerome, Sharbaugh, Fauth, Palladino, and De Huff. 3,060,111.
Dehydag, Deutsche Hydrierwerke G.m.b.H.: *See*—
Gündel, Wolfgang. 3,023,215.
Strauss, Wennemar, Gundel, Kirstahler, and Willmund. 3,030,283.
Strauss, Wennemar, Michael, and Willmund. 3,023,151.
Strauss, Wennemar, Michael, and Worms. 3,035,991.
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Willmund, Wolf-Dieter, and Strauss. 3,023,150.
Deibel, Raymond A., to Trico Products Corp. Windshield wiper arrangement. 3,016,558, 1–16–62, Cl. 15—250.16.
Deibel, Raymond A., to Trico Products Corp. Windshield cleaner. 3,035,296, 5–22–62, Cl. 15—250.23.
Deibel, Raymond A., to Trico Products Corp. Windshield wiper. 3,040,359, 6–26–62, Cl. 15—250.36.
Deibel, Raymond A., and A. C. Scinta, to Trico Products Corp. Windshield wiper. 3,044,095, 7–17–62, Cl. 15—250.42.
Deibel, Raymond A., E. C. Horton, and W. C. Riester, to Trico Products Corp. Door locking system for motor vehicles. 3,064,752, 11–20–62, Cl. 180—82.
Deibold, Inc.: *See*—
Graber, Carl D., Deaton, Mason, and Bryant. 3,028,074.
Deichert, Robert W., to Fairchild Camera and Instrument Corp. Indicating device. 3,017,624, 1–16–62, Cl. 340—324.
Deichert, William G., and J. J. Pellon, to American Cyanamid Co. Linear polyamides from bis-(omega-aminoalkyl) phosphines and dicarboxylic acids. 3,043,810, 7–10–62, Cl. 260—47.
Deierhoi, William H., Jr.: *See*—
Toda, Dean L. Deierhoi and Granger. 3,042,733.
Deighton, William W., to Burroughs Corp. Selective printer with electrical readout means. 3,062,134, 11–6–62, Cl. 101—93.
De Incera, Hilda M.: *See*—
Incera, Roberto. 3,067,897.
Deinert, Leonard A., to The Bendix Corp. Tote box. 3,056,-525, 10–2–62, Cl. 220—21.
Deininger, Estelle D. Combination protector grid and electric broiler element. 3,036,194, 5–22–62, Cl. 219—37.
De Iorio, Patsy: *See*—
Bonomo, Joseph, De Iorio, and Coffaro. 3,031,980.
Deis, Louis P., to American Viscose Corp. Spinneret. 3,056,-163, 10–2–62, Cl. 18—8.
Deisch, Noel. Photographic illuminating equipment. 3,026,409, 3–20–62, Cl. 240—1.3.
Deise, Louis F., to Westinghouse Electric Corp. Magnetic amplifier. 3,036,264, 5–22–62, Cl. 323—89.
Deisenroth, Robert J. Glass run for windows. 3,018,525, 1–30–62, Cl. 20—52.
Deisinger, Delbert A. Apparatus for atmospheric sounding and celestial observing. 3,015,456, 1–2–62, Cl. 244—2.
Deist, Herbert H., to The Firestone Tire & Rubber Co. Automatic balancing device. 3,038,343, 6–12–62, Cl. 73—483.
Deitchman, Evelyn. Toy mail classification rack. 3,070,234, 12–25–62, Cl. 211—10.
Deitemeyer, Ralph: *See*—
Arrington, Forrest M., and Deitemeyer. 3,023,922.
Deithauser, Karl, to Durrwerke Aktiengesellschaft. Once-through boiler. 3,037,491, 6–5–62, Cl. 122—406.
De Jager, Frank, and J. A. Greefkes, to North American Philips Co., Inc. Single sideband equipment for speech transmission. 3,020,352, 2–6–62, Cl. 179—15.55.
De Jean, Felix A., Jr. Spectator shelter. 3,052,251, 9–4–62, Cl. 135—5.
De Jean, Milton V., to General Electric Co. Magnetic core and method of assembly. 3,030,528, 4–17–62, Cl. 310—42.
De Jersey, Arthur L. Machines for making sausage rolls and the like. 3,029,749, 4–17–62, Cl. 107—1.
De Jersey, Arthur L. Machines for cooking crumpets and like hotplate goods. 3,058,434, 10–16–62. Cl. 107—4.
De Jong, Arthur E., to Hughes Aircraft Co. Linear amplifier using transistors. 3,054,068, 9–11–62, Cl. 330—24.
De Jong, Frans H.: *See*—
Kirchner, Norbert, and De Jong. 3,031,622.
De Jong, George E. Combined hinge and catch. 3,016,563, 1–16–62, Cl. 16—139.
De Jong, Hugo M., J. A. Brenkman, and J. G. Aalbers, to Chemische Fabriek "Andrelon," N.V. Shampoo composition. 3,038,862, 6–12–62, Cl. 252—152.
De Jong, Hugo M., J. G. Aalbers, and J. A. Brenkman, to Chemische Fabriek "Andrelon", N.V. Liquid, surface-active salts. 3,054,820, 9–18–62, Cl. 260—458.
De Jong, Johan R., and J. M. Goppel, to Shell Oil Co. Catalyst compositions and catalytic olefin polymerization. 3,030,350, 4–17–62, Cl. 260—94.9.
De Jongh, David K., A. Kraaijeveld, G. C. van Leeuwen, and J. F. Michels, to N.V. Nederlandsche Combinatie voor Chemische Industrie. New substituted 2,6-diketopiperazine and its manufacture. 3,026,321, 3–20–62, Cl. 260—268.
De Jongh, Hendrik P.: *See*—
Schönemann, Karl H., and de Jongh. 3,047,592.
De Jongh, Hendrik P., and S. A. Szpilfogel, to Organon Inc. 6-methyl-19-nor-steroids. 3,064,014, 11–13–62, Cl. 260—397.5.
De Julio, Richard, and R. Plunske. Machine for grinding axle housings or the like. 3,057,124, 10–9–62, Cl. 51—241.

Dejur-Armco Corp.: *See*—
Lunzer, Frederic A. 3,038,083.
Lunzer, Frederic A. 3,040,945.
Dekan, Vincent A.: *See*—
Lundquist, Richard C., and Dekan. 3,035,822.
De Kanski, Leon M., T. E. Dinsmoor, N. W. Guinard, and P. F. Martinuzzi, to American Machine & Foundry Co. Underwater signalling and apparatus therefor. 3,056,104, 9–25–62, Cl. 340—5.
De Kay, Robert, and C. E. Chorjel. Immersible electric heater. 3,068,339, 12–11–62, Cl. 219—33.
De Klerk, Antonie C., to North American Philips Co., Inc. Voltage regulator circuit arrangement. 3,038,111, 6–5–62, Cl. 321—18.
De Kock, Johannes J. and J. M. Apparatus for handling and transporting tobacco leaves. 3,021,020, 2–13–62, Cl. 214—5.5.
De Kock, Johannes M.: *See*—
De Kock, Johannes J. and J. M. 3,021,020.
De Kolb, Eric, to Coty, Inc. Transparent containers for housing bottled articles. 3,040,878, 6–26–62, Cl. 206—45.34.
De Koning, Arie A. and K. K. K. Hydraulic telescopic shock absorbers having a damping dependent on the position of the piston. 3,024,874, 3–13–62, Cl. 188—88.
De Koning, Jacob, to Stamicarbon N.V. Installation for the continuous separation of objects according to specific gravity. 3,047,147, 7–31–62, Cl. 209—73.
De Koning, Jacob, to Stamicarbon N.V. Installation for the continuous separation of objects according to specific gravity. 3,047,148, 7–31–62, Cl. 209—74.
De Koning, Jacob, to Stamicarbon N.V. Separating objects according to their specific gravity. 3,047,149, 7–31–62, Cl. 209—121.
De Koning, Jan, to Stamicarbon N.V. Sand preparing process. 3,061,099, 10–30–62, Cl. 209—281.
De Koning, Kornelis K. K.: *See*—
De Koning, Arie A. and K. K. K. 3,024,874.
De Kramer, Isaac A.: *See*—
Williamson, Robert B., and De Kramer. 3,055,455.
De Kramer, Isaac A., and R. A. Hagen, to General Railway Signal Co. Token operated electrical switches. 3,046,364, 7–24–62, Cl. 200—42.
Delabar, Roger A.: *See*—
Clemens, John E., Delabar, and Ray. 3,025,054.
De la Burde, Roger, and A. Veis, to Armour & Co. Hydroxylamine treatment of collagen fibers. 3,055,790, 9–25–62, Cl. 162—2.
De la Calle, Antonio F. Apparatus for processing sugar cane. 3,069,295, 12–18–62, Cl. 127—5.
Delachanal, Michel L.: *See*—
Cohen De Lara, Georges, Delachanal, and Platzer. 3,049,-236.
De Lachesserie, Henri: *See*—
Audubert, Rene, and de Lacheisserie. 3,041,253.
De la Combe, Albert J., to Societe Anonyme des Etablissements Neu. Induction air distributors. 3,026,787, 3–27–62, Cl. 98—41.
Delacretaz, Jean C. Device for cleaning slatted structures such as Venetian blinds and the like. 3,045,275, 7–24–62, Cl. 15—369.
De la Fourniere, Marc M. P. R. Installations and apparatus for washing, cleansing or extracting dust from gases. 3,031,825, 5–1–62, Cl. 55—236.
De la Garza, Jesus. Non-drip faucet valve. 3,043,554, 7–10–62, Cl. 251—175.
De La Hitte, Rodolphe V. Container closures. 3,058,631, 10–16–62, Cl. 222—507.
De Laittre, Norman C.: *See*—
Meyers, Joseph. 3,031,036.
De la Kétiaulle de Ryhove, Jacques and J. P., A. Schoolmeester, and R. De Hemptinne, to Usines "Le Lion D'Or Distillerie-Malterie-Fabrique de Levure. Societe Anonyme. Treatment of cereal grains. 3,030,279, 4–17–62, Cl. 195—71.
De la Kéthulle de Ryhove, Jean P.: *See*—
De la Kéthulle de Ryhove, Jacques and J. P., Schoolmeester, and De Hemptinne. 3,030,279.
Delalande, Michel, and J. Baisse. Process for the separation of thevetins A and B. 3,030,355, 4–17–62, Cl. 260—210.5.
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De La Mater, George B., and D. W. Chapman, to Mallinckrodt Chemical Works. Method of making an X-ray image intensifying screen and resulting article. 3,023,313, 2–27–62, Cl. 250—80.
De La Mater, George B., and P. E. Wiegert, to Mallinckrodt Chemical Works. Alkylsulfonamidobenzoic acid compounds. 3,036,063, 5–22–62, Cl. 260—211.
De Lamater, Paul F.: *See*—
Burgy, Raymond A., and De Lamater. 3,022,864.
Delamere Co., Inc.: *See*—
Goodman, Abraham. 3,066,684.
Herzog, Milton W. 3,027,001.
De Lamoureaux, Edward V. A.: *See*—
Van Bennekom, Carl F., and De Lamoureaux. 3,034,058.
De Land, Charles L.: *See*—
Heller, George L., Warner, and De Land. 3,046,096.
Delaney, John J.: *See*—
Griffith, Clement P., and Delaney. 3,066,837.
Delaney, William, to Kadison Laboratories, Inc. Dry, free-flowing meat curing compositions. 3,052,560, 9–4–62, Cl. 99—222.
De Laney, William J. Intercom for automobiles. 3,043,912, 7–10–62, Cl. 179—1.
Delange, Maurice: *See*—
Vertes, Paul, Sauteron, and Delange. 3,069,227.
De Lange, Owen E., to Bell Telephone Laboratories, Inc. Signal translating circuits employing two-terminal negative resistance devices. 3,069,564, 12–18–62, Cl. 307—88.5.
Delangre, John P., and A. Cane, to Polaroid Corp. Light-polarizing film materials and process of preparation. 3,015,989, 1–9–62, Cl. 88—65.
De Lano, Merritt V., Jr., and W. E. Plaster, to Phillips Petroleum Co. Defluorination of HF alkylate. 3,019,273, 1–30–62, Cl. 260—683.42.
Delano, Philip H.: *See*—
Bravo, Justo B., and Delano. 3,020,124.
De Lano, Ralph B., Jr.: *See*—
Brennemann, Andrew E., De Lano, and Young. 3,042,-904.
De Lapp, Darwin F.: *See*—
Cosway, Harry F., and De Lapp. 3,027,236.
De la Rambelje, Henry A., to Hico Corp. of America. Form supporting girder for use in concrete construction. 3,045,786, 7–24–62, Cl. 189—37.
De la Rambelje, Henry A., to Hico Corp. of America. Form supporting girder for use in concrete construction. 3,054,-486, 9–18–62, Cl. 189—37.
De Laria, Donald G. Stirring device. 3,064,950, 11–20–62, Cl. 259—108.
De La Salle, Louis M. G.: *See*—
Bertin, Jean H., Kodosch, Maunoury, De La Salle, and Turinetti. 3,024,602.
Delassus, Marcel, B. Lefrancois, and C. Vaniscotte, to Houilleres du Bassin du Nord et du Pas-de-Calais and Commissariat a l'Energie Atomique. Process for removing oxygen, carbon monoxide, carbon dioxide and water. 3,055,732, 9–25–62, Cl. 23—2.
De Lassus St-Genies, Anne H. J. Method for obtaining a secondary copy of a relief image on lenticular support. 3,062,121, 11–6–62, Cl. 95—75.
De La Tramerye, Raymond, and J. Hébert. Motor vehicle with articulated body sections to facilitate parking. 3,031,023, 4–24–62, Cl. 180—1.
De Lauro, Joseph N. Structural grille unit. 3,047,984, 8–7–62, Cl. 50—262.
De Laval Separator Co., The: *See*—
Pinckney, Milton W. 3,066,133.
Sullivan, Frank E. 3,063,840.
De Laval Steam Turbine Inc.: *See*—
Birmann, Rudolph. 3,032,315.
Birmann, Rudolph. 3,068,638.
Montellus, Carl O. 3,016,842.
Montellus, Carl O. T. 3,063,379.
Delavan Mfg. Co.: *See*—
Brucker, James R. 3,018,792.
De la Vega Falcon, Jose R., and E. R. Rodriguez, 75% to Instituto Cubano de Investigaciones Tecnologicas and 25% to Universidad de Villanueva. Hydrolysis of bagasse. 3,051,611, 8–28–62, Cl. 162—868.
Delaware Valley Electronics Corp.: *See*—
Hignutt, Frank A. and R. F., and Dequasie. 3,048,839.
Del Bel, Elsio: *See*—
Neuworth, Martin B., and Del Bel. 3,026,586.
Del Bel, Elsio, and A. Heredy, and M. B. Neuworth, to Consolidation Coal Co. Condensation product of cresylic acid resin and phenol resin. 3,027,345, 3–27–62, Cl. 260—38.
Del Camp, Scipione M., to United-Carr Fastener Corp. Vacuum tube socket. 3,017,604, 1–16–62, Cl. 339—194.
Del Camp, Scipione M., to United-Carr Fastener Corp. Tube socket assembly. 3,065,437, 11–20–62, Cl. 339—14.
Delcroix, Jean, R. Hubert, and R. Heintz, to Compagnie du Filage des Metaux et des Joints Curty. Extrusion of metals. 3,019,894, 2–6–62, Cl. 207—2.
Del Duca, Anthony, and R. J. Kirk, to Beckman Instruments, Inc. Memory storage trend recorder. 3,065,364, 11–20–62, Cl. 307—106.
De Lear, Nicholas L. Disposable filter elements and forming methods therefor. 3,028,911, 4–10–62, Cl. 162—383.
De Leo, Felix R., and E. Shapiro, to Luminous Products Corp. Self-luminous paints. 3,033,797, 5–8–62, Cl. 252—301.1.
De Leo, Peter D., to Chrysler Corp. Welding apparatus. 3,053,977, 9–11–62, Cl. 219—160.
De Leonardis, Michael J. Warp switches. 3,017,477, 1–16–62, Cl. 200—122.
Delesalle, Claude. Spindle tip type spinning device. 3,032,-961, 5–8–62, Cl. 57—73.
Delf, Glenn A., to Atlas Tool & Mfg. Co. Shaft straightener. 3,060,993, 10–30–62, Cl. 153—32.
Del Faro, Gordon P., R. E. Moline, and J. M. Conaway; said Moline, assignor to said Del Faro. Drapery hardware. 3,053,-420, 9–25–62, Cl. 160—347.
Delfosse, Pierre. White filler material and its preparation. 3,022,185, 2–20–62, Cl. 106—296.
Delfs, Detlef: *See*—
Köpnick, Morst, Delfs, and Simmler. 3,040,080.
Trescher, Victor, Loew, Delfs, and Möller. 3,036,021.
Wedemeyer, Karlfried, Kleb, Dortmann, and Delfs. 3,066,005.

Delgadillo, Fred M.: *See*—
Kreider, David B., and Delgadillo. 3,041,912.
Del Guercio, Victor R., to The Modella Mfg. Co., Inc. Infant's garments. 3,063,452, 11–13–62, Cl. 128—284.
Delhi-Taylor Oil Corp.: *See*—
Chadwick, John L. 3,062,616.
Dellege, Jan H. M.: *See*—
De Miranda, Jacobus R., Boon, and Deliege. 3,020,488.
Delimal, Hippolyte P. Ornamental assembly. 3,044,199, 7–17–62, Cl. 41—10.
Delin, Irwin L.: *See*—
Schueler, Frederick W., Simeone, Delin, and Oxland. 3,056,606.
Deline, Edwin F. Carton. 3,018,940, 1–30–62, Cl. 229—45.
De Lisio, Salvatore. Apparatus for raising ships from underwater. 3,046,925, 7–31–62, Cl. 114—54.
Delius, C. A., & Sohne: *See*—
Schaffer, Heinrich. 3,050,088.
Dell, Edward F.: *See*—
Davidson, William W., Jr., Dell, Dykaar, and Marlin. 3,048,099.
Dell, Harold R.: *See*—
Hamilton, Eugene P., Trebino, and Dell. 3,047,731.
Dell, Hugh A. and M. A. Snelling, to North American Philips Co., Inc. Acoustic solid delay lines. 3,046,501, 7–24–62, Cl. 333—30.
Dell, John. Domestic hot water tanks. 3,045,654, 7–24–62, Cl. 122—17.
Dell, Saul V., to Mechanical Industries Production Co. Protective device with terminal clips thereon. 3,051,809, 8–28–62, Cl. 200—138.
Della Porta, Paolo. Getter device. 3,033,354, 5–8–62, Cl. 206—4.
Dell'Aria, Paul S., to United States of America, Navy. Method of blowing radar-reflective dipoles astern of a moving seagoing ship. 3,068,472, 12–11–62, Cl. 343—18.
Dellett, Ben F.: *See*—
Evans, Norman R. 3,058,103.
Dellinger, Darel R.: *See*—
Strickland, Glenn A., and Dellinger. 3,024,415.
Dellinger, Darel R., to American Machine and Foundry Co. Suppressed zero frequency meter. 3,068,406, 12–11–62, Cl. 324—78.
Delilth, Werner, to Camloc Fastener Corp. Separable hinge. 3,060,492, 10–30–62, Cl. 16—172.
Delilth, Werner, to Camloc Fastener Corp. Structural seam fastener. 3,061,349, 10–30–62, Cl. 292—304.
Dellner, Raymond P.: *See*—
Feucht, Jacob E., and Dellner. 3,045,769.
Dello Russo, Aurelio: *See*—
Xenakis, Perry, and Dello Russo. 3,028,100.
Delmag Maschinenfabrik Reinhold Dornfeld: *See*—
Lang, Anton, Glehr, and Haage. 3,027,883.
Delman Co., The: *See*—
Mandy, Robert R., and Kibler. 3,055,493.
Neufeld, Leonard C., and Schmalfeldt. 3,037,232.
Schmalfeldt, Alfred H. 3,062,033.
Shaar, Edward C. 3,025,827.
Webb, Edmond F. 3,059,263.
Del Mar, Bruce E., to Del Mar Engineering Laboratories. Tow targe. 3,016,532, 1–9–62, Cl. 343—18.
Del Mar Engineering Laboratories: *See*—
Del Mar, Bruce E. 3,016,532.
Elder, Boyd B., and Wilmot. 3,049,319.
Finkelstein, Don B. 3,051,085.
Humphrey, Michael W., Jones, and Seyle. 3,065,967.
Delmonte, John: *See*—
Hirosawa, Frank N., and Delmonte. 3,026,285.
Delmonte, John, to Furane Plastics Inc. Curing promoter for furane resins. 3,043,804, 7–10–62, Cl. 260—67.
De Loach, Bernard C., Jr., to Bell Telephone Laboratories, Inc. Broadband solid state amplifier and switch using "dan" cavity. 3,050,689, 8–21–62, Cl. 330—34.
De Loach, Bernard C., Jr., and D. H. Ring, to Bell Telephone Laboratories, Inc. Microwave device. 3,016,499, 1–9–62, Cl. 333—33.
De Lonais, Melvin D. Fluid injecting game hunter's arrow. 3,066,940, 12–4–62, Cl. 273—106.5.
Delong, Armin, V. Drahoš, and J. Specialný, to Tesla, narodni podnik. Device for compensating axial astigmatism of electron-optical systems. 3,046,397, 7–24–62, Cl. 250—49.5.
De Long Corp.: *See*—
Suderow, George E. 3,020,956.
De Long, Frank D., Jr.: *See*—
Getaz, James L. 3,015,942.
Russell, Javan P., and Liles. 3,058,438.
De Long, Herbert K., to The Dow Chemical Co. Inhibition of corrosion of magnesium. 3,034,210, 5–15–62, Cl. 29—458.
De Long, Herbert K., and D. E. Ritzema, to The Dow Chemical Co. Method of uniformly reducing the dimensions of magnesium shapes. 3,039,909, 6–19–62, Cl. 156—13.
De Long, Horace J., to Gainesville Machine Co., Inc. Rotary drum type chicken picking machine. 3,044,108, 7–17–62, Cl. 17—11.
De Long, Richard C., M. Kaplan, and C. R. Wagner, to Allied Chemical Corp. Stabilized polyisocyanate compositions. 3,035,078, 5–15–62, Cl. 260—453.
De Long, Robert F., to American Can Co. Meat package. 3,029,149, 4–10–62, Cl. 99—174.
De Long, William A., to Heldon Products, Inc. Rudder mounting for boats. 3,038,433, 6–12–62, Cl. 114—165.
De Lorean, John Z., to General Motors Corp. Cast brake drum. 3,016,269, 1–9–62, Cl. 301—6.
De Lorean, John Z., to General Motors Corp. Split torque transmission. 3,016,768, 1–16–62, Cl. 74—677.
De Lorean, John Z., to General Motors Corp. Two speed transmission. 3,023,637, 3–6–62, Cl. 74—677.
De Lorean, John Z., to General Motors Corp. Transmission. 3,025,721, 3–20–62, Cl. 74—677.
De Lorean, John Z., to General Motors Corp. Vehicle suspension with load simulating leveling device. 3,031,204, 4–24–62, Cl. 280—124.
De Lorean, John Z., G. B. Shaw, and B. H. Short, to General Motors Corp. Motor vehicle engine starting apparatus. 3,021,715, 2–20–62, Cl. 74—7.
De los Rios, Roberto J.: *See*—
Mendoza, Lorenzo E., and de los Rios. 3,037,072.
Delp, Charles J.: *See*—
Davidson, Sidney H., and Delp. 3,016,295.
Delpoux, Albert, to Electricite de France (Service National). Apparatus for recording maximum values of a variable quantity. 3,042,921, 7–3–62, Cl. 346—30.
Del Riccio, Lorenzo: *See*—
Dowling, Robert W., and Del Riccio. 3,015,252.
Dowling, Robert W., and Del Riccio. 3,062,098.
Del Grosso, Victor, to Hi-Speed Checkerweigher Co., Inc. Continuous weigher. 3,070,214, 12–25–62, Cl. 198—39.
Delsa, Lawrence J. Insulation spaced from pipe by supports. 3,065,768, 11–27–62, Cl. 138—148.
Delta Dynamics Corp.: *See*—
Womble, Sherman C., Jr. 3,031,787.
Delta Industries Inc.: *See*—
Birkenbeul, Robert M., and Blakley. 3,032,348.
Delta Tank Mfg. Co., Inc.: *See*—
Lusted, Emile W. 3,061,379.
De Luca, Frank J.: *See*—
Jacobson, Moses G., and De Luca. 3,049,664.
De Lury, James, A. R. Young, and W. W. Bodle, to Conch International Methane Ltd. Method and apparatus for liquefaction of natural gas. 3,020,723, 2–13–62, Cl. 62—9.
De Lutis, Thomas, to H. K. Porter Co., Inc. Electrical cable with protecting layer of polyethylene terephthalate. 3,019,285, 1–30–62, Cl. 174—120.
De Luxe Reading Corp.: *See*—
Gilbert, Felix. 3,060,597.
Gilbert, Felix, and Friedman. 3,060,598.
Del Vento, John M.: *See*—
Haan, Gilbert J., and Del Vento. 3,026,093.
De Lynn, Victor E. Ganged anchoring nail device. 3,049,042, 8–14–62, Cl. 75—13.
Demag Aktiengesellschaft: *See*—
Wegmann, Ludwig. 3,020,735.
Demag-Elektrometallurgie G.m.b.H.: *See*—
Ernst, Hans. 3,045,144.
Demagistri, Albert, H. Ischer, and W. Wehrli, to Sandoz A.G. Copper complex compounds of trisazo dyestuffs. 3,030,351, 4–17–62. Cl. 260—145.
Demagistri, Albert, H. Ischer, and W. Wehrli, to Sandoz Ltd. Copper complex compounds of polyazo dyestuffs. 3,033,846, 5–8–62, Cl. 260—145.
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Groh, Hugo. 3,034,625.
Demain, Arnold L., and N. L. Somerson, to Merck & Co., Inc. Process for the production of penicillin. 3,024,169, 3–6–62. Cl. 195—36.
De Maine, Frank J., to International Business Machines Corp. Electro-erosion apparatus. 3,067,358, 12–4–62, Cl. 313—231.
Demalander, Roger, to Compagnie de Pont-A-Mousson. Heat exchanger element and applications thereof. 3,022,982, 2–27–62, Cl. 257—245.
De Man, Heiko T.: *See*—
Forestad, Lars, and De Man. 3,042,925.
De Man, Heiko T., to The Porter-Cable Machine Co. Nailer. 3,022,509, 2–27–62, Cl. 1—46.
Demaradzki, Joseph S.: *See*—
Holmes, Francis W., and Demaradzki. 3,039,230.
De Marchi Frattelli, S.p.A.: *See*—
Stradella, Giuseppe. 3,042,277.
De Marco, Carlo G., and G. M. Dias, to United States of America, Army. Water-resistant and oil-resistant fibrous substances, and processes therefor. 3,034,925, 5–15–62, Cl. 117—121.
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De Marco, Louis, to The Langenau Mfg. Co. Catch construction. 3,048,435, 8–7–62, Cl. 292—111.
De Marco, Robert F.: *See*—
Perkins, George H., and De Marco. 3,052,118.
De Marco, Robert F., to The Cyril Bath Co. Metal forming machine and reversible hydraulic control therefor. 3,016,-882, 1–16–62, Cl. 121—41.
De Marco, Robert F., to The Cyril Bath Co. Machine for stretch forming mandrel supported tube-like elongated stock. 3,025,904, 3–20–62, Cl. 153—32.
De Marco, Robert F., and P. J. Nasvytis, to The Cyril Bath Co. Rapid cycle radial draw forming machine. 3,068,-928, 12–18–62, Cl. 153—32.

Demarest, Le Roy E. : *See*—
Lapeyre, Fernand S. and J. M., and Demarest. 3,018,-510.
Lapeyre, Fernand S. and J. M., Demarest, and Couret. 3,037,237.
De Marsh, Peter L. : *See*—
Lebeaux, Jacob M., and De Marsh. 3,050,126.
De Marsico, Alfonso : *See*—
Dall'Oglio, Giorgio, De Marsico, and Carnevali. 3,068,-787.
De Mart, Le Roy S., to Diamond Power Specialty Corp. Stud tensioner. 3,039,741, 6–19–62, Cl. 254—30.
De Mart, Le Roy S. Translational drive mechanism. 3,046,-808. 7–31–62. Cl. 74—424.8.
De Mattos, Jorge J. Air propelling means. 3,040,976, 6–26–62, Cl. 230—292.
Demay, Peter P., to Minneapolis-Honeywell Regulator Co. Pneumatic actuator. 3,065,736, 11–27,62, Cl. 121—41.
Dembinsky, Joseph : *See*—
Myers, Bernard, and Dembinsky. 3,050,888.
Dembowski, Heinz : *See*—
Butticaz, André, and Dembowski. 3,069,621.
Demchock, Louis A. : *See*—
Anderson, Robert M., and Demchock. 3,041,862.
Anderson, Robert M., and Demchock. 3,046,769.
Demeester, Jaques, to The British Petroleum Co. Ltd. Upgrading lubricating oils by hydrogenation with a three component catalyst. 3,020,228, 2–6–62, Cl. 208—264.
Demek, Mary M., G. F. Endres, and J. Epstein. Hydroxamic acid catalyzed hydrolysis. 3,068,072, 12–11–62, Cl. 23—-230.
De Melfy, Frank A. Nebulizer. 3,066,669, 12–4–62, Cl. 128—194.
De Mello, Ruben. Electronic press for making plywood in a continuous flow. 3,056,440, 10–2–62, Cl. 144—282.
Demer, Frederick M., to International Business Machines Corp. Perforated record reader. 3,055,583, 9–25–62, Cl. 235—61.11.
Demeter, Jozsef, and J. Szabady. Applying thermosetting resin to porous support by using vacuum. 3,043,738, 7–10–62, Cl. 156—229.
De Metrick, John S., to Automatic Radio Mfg. Co., Inc. Transistorized automobile radio. 3,015,726, 1–2–62, Cl. 250—20.
Demi, Roy C., to Robertshaw-Fulton Controls Co. Thermostatic control device. 3,069,089, 12–18–62, Cl. 236—99.
De Michelis, Raymond, to C. F. Bedouet. Pump for pulverulent material. 3,039,398, 6–19–62, Cl. 103—126.
Deminet, Czeslaw : *See*—
Shapiro, Justin J., Deminet, and Camenson. 3,067,915.
Deming, Duane E. : *See*—
Jacob, Ralph J., and Deming. 3,068,926.
Deming, George A., to Chicago Fire Brick Co. Casing structure for furnace. 3,030,737, 4–24–62, Cl. 50—391.
Deming, Herschel P., to Stearns-Roger Mfg. Co. Electromechanical drive. 3,058,018, 10–9–62, Cl. 310—95.
Deming, John M., to Monsanto Chemical Co. Method of treating soil with aqueous slurry of lattice clay and anionic polyelectrolyte. 3,016,713, 1–16–62, Cl. 61—1.
Deming, Mark A. : *See*—
Dence, Donald S., and Deming. 3,024,885.
Deming, Philip H. : *See*—
Payne, George B., and Deming. 3,053,856.
Deming, Royce D., E. Jacobitti, J. B. Kennedy, W. V. K. Large, and H. M. Pruden, to Bell Telephone Laboratories, Inc. Supervisory control system. 3,046,525, 7–24–62, Cl. 340—163.
Deming, William A., to Bellingham Chain & Forge Co. Pintle chain. 3,062,067, 11–6–62, Cl. 74—245.
De Miranda, Heine A. R. : *See*—
Heijn, Herman J., Klinkhamer, Samwel, and De Miranda. 3,020,117.
De Miranda, Heine A. R. and T. J. Tulp, to North American Philips Co., Inc. Bistable circuit arrangement. 3,024,367, 3–6–62, Cl. 307—88.
De Miranda, Heine A. R., J. M. Cluwen, and T. J. Tulp, to North American Philips Co., Inc. Counter memory system utilizing carrier storage. 3,038,084, 6–5–62, Cl. 307—88.5.
De Miranda, Heine A. R., to North American Philips Co. Inc. Shift register utilizing free charge carrier storage of cascaded delay network coupled transistors. 3,047,739, 7–31–62. 307—88.5.
De Miranda, Jacobus R., C. M. Boon, and J. H. M. Deliege, to North American Philips Co., Inc. Control arrangement and circuit element for electrical amplifiers. 3,020,488, 2–6–62, Cl. 330—59.
Demko, Charles. Plastic screen and use. 3,017,927, 1–23–62, Cl. 160—271.
Demler, Henry W., to AMP Inc. Hand tool for crimping electrical connectors onto conductors. 3,036,308, 5–29–62, Cl. 1—215.
Demmel, Anton, to Olympia Werke, A.G. Typewriter for manual or electric actuation. 3,062,350, 11–6–62, Cl. 197—17.
Demmel, Anton, and G. Kernchen, to Olympia Werke A. G. Edge setting and sheet supporting attachment for typewriters and the like. 3,049,211, 8–14–62, Cl. 197—140.
Demmel, Georg, to Siemens-Schuckertwerke Aktiengesellschaft. Method and apparatus for producing stranded-cable components. 3,053,039. 9–11–62, Cl. 57—35.
Demmer, William R., to International Business Machines Corp. Transfer instruction. 3,059,222, 10–16–62, Cl. 340—172.5.
Demmer, William R., W. C. Foin, and F. B. Hartman, to International Business Machines Corp. Add address to memory instruction. 3,058,659, 10–16–62, Cl. 235—176.
Demoisy, Albert. Continuous rotary press. 3,034,423, 5–15–62, Cl. 100—117.
De Monte, Robert W., and W. J. Kopp, to Bell Telephone Laboratories, Inc. Negative-impedance repeater. 3,068,-329, 12–11–62, Cl. 179—170.
De Monterey, Francis G. A., to General Electric Co. Grease compositions. 3,047,499, 7–31–62, Cl. 252—37.
De Montmollin, Jean P. : *See*—
Bethge, Walther.
De Montmollin, Rene : *See*—
Riat, Henri, de Montmollin, and Seitz. 3,040,024.
De Mott, Arthur E. : *See*—
Huston, William J., Sr., and De Mott. 3,030,678.
De Mott, Dale H., to North American Aviation, Inc. Infrared guidance system. 3,021,066, 2–13–62, Cl. 244—14.
De Mott, Dale H., to Metrolog Corp. Frequency response analyzer. 3,026,473, 3–20–62, Cl. 324—57.
De Mott, Dale H., to Air Logistics Corp. Sensing apparatus. 3,052,127, 9–4–62, Cl. 73—517.
De Mott, Elmer G., C. B. Stegner, and G. Stolar, to Daystrom, Inc. Electrical instrument with a permanent magnet core. 3,026,478. 3–20–62. Cl. 324—151.
Dempsey, Charles A. : *See*—
Blanford, William F., and Dempsey. 3,045,878.
Dempsey, John J. Amputee's stump bandaging harness. 3,038,035, 5–1–62, Cl. 128—165.
Dempsey, Joseph B., to Pattin Mfg. Co., Inc. Mine roof bolt assembly with sequential multiple expansion means. 3,022,-700, 2–27–62, Cl. 85—2.4.
Dempster Brothers, Inc. : *See*—
Bryan, Mac B., and French. 3,042,238.
Dempster, George R., and Herpich. 3,049,249.
Dempster, George R., and Herpich. 3,049,250.
Dempster, George R., and Herpich. 3,049,254.
Dempster, George R., and Herpich. 3,064,852.
Dempster, George R., Herpich, and Toppins. 3,064,834.
Dempster, George R., and W. A. Herpich; said Herpich assor. to Dempster Brothers, Inc. Transporting and dumping equipment. 3,049,249, 8–14–62, Cl. 214—77.
Dempster, George R., and W. A. Herpich, to Dempster Brothers, Inc. Compaction bodies. 3,049,250, 8–14–62, Cl. 214—82.
Dempster, George R., and W. A. Herpich; said Herpich assor. to Dempster Brothers, Inc. Front end loaders. 3,049,254. 8–14–62, Cl. 214—302.
Dempster, George R., W. A. Herpich, and C. R. Toppins, to Dempster Bros., Inc. Transporting equipment. 3,064,-834, 11–20–62, Cl. 214—75.
Dempster, George R., and W. A. Herpich; said Herpich, assor. to Dempster Bros., Inc. Sump-type containers. 3,064,852, 11–20–62, Cl. 220—32.
De Mytt, Louis E., and D. Y. Hslung, to The Gillette Co. Alkali, alpha'-dimercaptodiol hair waving compositions. 3,066,077, 11–27–62, Cl. 167—87.1.
Denaux, Louis M. Shotgun choke. 3,045,378, 7–24–62, Cl. 42—79.
Dence, Donald S., and F. L. Metz, to Clark Equipment Co. Clutch mechanism. 3,017,006, 1–16–62, Cl. 192—113.
Dence, Donald S., and M. A. Deming, to Clark Equipment Co. Clutch. 3,024,885, 3–13–62, Cl. 192—53.
Dench, Edward C., to Raytheon Co. Electron discharge devices. 3,027,483, 3–27–62, Cl. 315—3.5.
Dench, Edward C., to Raytheon Co. Electron discharge devices of the traveling wave type. 3,027,487, 3–27–62, Cl. 315—39.3.
Dench, Edward C., to Raytheon Co. Traveling wave tubes. 3,032,676, 5–1–62, Cl. 315—3.5.
Dench, Edward C., to Raytheon Co. Traveling wave tubes. 3,032,677, 5–1–62, Cl. 315—3.5.
Dench, Edward C., to Raytheon Co. Traveling wave tubes. 3,046,443. 7–24–62. Cl. 315—39.3.
Dench, Edward C., to Raytheon Co. Travelling wave device. 3,069,587, 12–18–62, Cl. 315—3.5.
Dench, Edward C., and P. P. Derby, to Raytheon Co. Electrical tuning systems with traveling wave tube. 3,038,067, 6–5–62. Cl. 250—13.
Denco Miller Ltd. : *See*—
Miller, Allan S. 3,060,704.
Den Danske Presses Faellesindkobs-Forening : *See*—
Jensen, Ib H., and Reimann. 3,063,285.
Den Dulk, Ernst S. : *See*—
Van Tol, Hendrikus J. M., and Den Dulk. 3,054,430.
Denecke, Hans-Joachim, to Baulio Etablissement. Method and apparatus for eliminating the dazzling effect of strong sources of light, particularly for automotive vehicles. 3,049,962. 8–21–62, Cl. 88—1.
Denegre, Charles. Baseball guide for batting practice. 3,042,401, 7–3–62, Cl. 273—26.
De Negri, Ferdinando P., to Cel Elevator Co., Inc. Radar sweep simulator. 3,018,565, 1–30–62, Cl. 35—10.4.
Denes, Peter A. Ceramic dipping process. 3,016,597, 1–16–62, Cl. 25—156.
De Net, Robert W. : *See*—
Zaugg, Harold E., and De Net. 3,043,845.
Dengle, Sydney H., to Meredith Publishing Co. Scarfing and trimming machine. 3,040,414, 6–26–62, Cl. 29—21.

Dengler, Herbert P. : *See*—
King, Lewis G., Bernstein, and Dengler. 3,046,235.
Dengler, Ludwig, to Wacker-Chemie G.m.b.H. Process for treating paper with silicones. 3,046,160, 7–24–62, Cl. 117—155.
Dengler, Reeves H., to The Budd Co. Sheet stiffening stringer. 3,034,608, 5–15–62, Cl. 189—34.
Denhardt, Carl : *See*—
Sorenson, Bill W., and Denhardt. 3,022,995.
Den Herder, Gerald. Method and apparatus for trueing marine propellers. 3,039,512, 6–19–62, Cl. 153—32.
Denholtz, Edward J., to Durex, Inc. Paint roller having a detachable frame. 3,019,466, 2–6–62, Cl. 15—230.
De Nicolo, William V., to The North & Judd Mfg. Co. Anchor plate feed in eye setting machine. 3,021,031, 2–13–62, Cl. 221—273.
Denil, Norbert J., and R. W. Burton, to General Motors Corp. Flexible flywheel. 3,059,499, 10–23–62, Cl. 74—574.
Denis, Albert P., deceased (M. D. Sullivan, administratrix), ¼ to M. D. Sullivan, ¼ to D. D. Coleman, ½ to M. B. Denis, and ¼ to R. B. Denis. Brake shoe tool. 3,049,798, 8–21–62, Cl. 29—227.
Denis, Gilber A. : *See*—
Blodgett, Edwin O., and Denis. 3,025,941.
Denis, Louis, P. B. Wolff, and J. J. M. R. Brocard, to Societe d'Etudes pour le Stockage et le Transport sous-marins des Fluides (S.O.M.A.F.). Device for the transport of freight, and in particular liquid or powdered loads of commercial value, in water and especially in sea water. 3,018,748, 1–30–62, Cl. 114—74.
Denis, Mary B. : *See*—
Von Denis, Albert P. 3,049,798.
Denis, Robert B. : *See*—
Denis, Albert P. 3,049,798.
Denise, Richard P. : *See*—
Happell, John J., Thomas, Denise, and Bunts. 3,018,239.
Denisoff, Peter C., to Refrigeration apparatus. 3,034,318, 5–15–62, Cl. 62—435.
Denison, F. Eveiyn : *See*—
Denison, Henry W., and Johnson. 3,023,978.
Denison, Henry W., and Johnson. 3,026,058.
Denison, Frank W., Jr. : *See*—
Bergmann, Donald E., Denison, and Friedland. 3,021,261.
Denison, Henry H. : *See*—
Morrison, Charles S., and Denison. 3,030,756.
Denison, Henry W., deceased (F. E. Denison, special administratrix), and L. E. Johnson, to Denison-Johnson, Inc. Spining reel. 3,025,978, 3–6–62, Cl. 242—84.5.
Denison, Henry W., deceased (F. E. Denison, special administratrix), and L. E. Johnson, to Denison-Johnson, Inc. Spin casting reel. 3,026,058, 3–20–62, Cl. 242—84.2.
Denison, James W., Jr., to General Electric Co. Bonding member. 3,045,332, 7–24–62, Cl. 29—182.5.
Denison-Johnson, Inc. : *See*—
Denison, Henry W., and Johnson. 3,023,978.
Denison, Henry W., and Johnson. 3,026,058.
Denisty, Keneuth P. : *See*—
Kremer, Hoyt E., and Denisty. 3,043,409.
Denkert, James R., to M. Denkert & Co. Cover for golf club. 3,023,795, 3–6–62, Cl. 150—52.
Denkert, M., & Co. : *See*—
Denkert, James R. 3,023,795.
Denkowski, Walter J., S. I. Caldwell, and H. O. Kron, to Philadelphia Gear Corp. Hydro-pneumatic systems for operating reversible torque actuators. 3,069,855, 12–25–62, Cl. 60—51.
Denlinger, John L. : *See*—
McLaughlin, Guy, Jr., Denlinger, and Herr. 3,057,451.
Denman, Stephen A., and W. Bunker, to General Motors Corp. Intermittent pulse valve control system. 3,052,217, 9–4–62, Cl. 121—38.
Denman, Wayne L., and H. Kerst, to Dearborn Chemical Co. Method and composition for treating cooling water. 3,019,-195, 1–30–62, Cl. 252—389.
Dennerline, Elmer R. : *See*—
McCormick, Gordon A., and Dennerline. 3,036,723.
Denney, Ralph E., ⅞ to Philip Ganson. Power lawn mower. 3,049,854, 8–21–62. Cl. 56—25.4.
Denning, Charles, Ltd. : *See*—
Pickering, Norman C. 3,045,160.
Denning, Paul S., to Johns-Manville Perlite Corp.. Insulating product and its manufacture. 3,042,578, 7–3–62, Cl. 162—171.
Dennis, Clement O., and W. C. Shaver, to Precision Recapping Equipment Co. Apparatus for handling and storing tire recapping matrices. 3,067,457, 12–11–62, Cl. 18—6.
Dennis, David H., to Specialties Development Corp. Cooling device. 3,055,191, 9–25–62, Cl. 62—440.
Dennis, David H., to Specialties Development Corp. Cooling apparatus. 3,055,192, 9–25–62, Cl. 62—440.
Dennis, David H., to Specialties Development Corp. Cooling device employing the Joule-Thomson effect. 3,063,260, 11–13–62, Cl. 62—440.
Dennis, David H., A. Riuli, and G. I. Schrank, to Specialties Development Corp. Fire extinguishing apparatus. 3,058,-527, 10–16–62, Cl. 169—31.
Dennis, David H., and L. V. Hebenstreit, to Specialties Development Corp. Cooling apparatus. 3,067,589, 12–11–62, Cl. 62—293.
Dennis, Louis E. : *See*—
Beachler, Edward D., and Dennis. 3,065,788.
Beachler, Edward D., and Dennis. 3,065,789.
Dennis, William M. Combination vise and clamp. 3,061,302. 10–30–62, Cl. 269—9.
Dennis, Wolcott, and D. L. Smith, to Air Reduction Co., Inc. Maintaining high purity argon atmosphere. 3,062,016, 11–6–62, Cl. 62—22.
Dennison Mfg. Co. : *See*—
Bone, Arnold R. 3,036,520.
Flood, Carl A. 3,058,514.
Flood, Carl A. 3,064,714.
Kallander, Ernest L., and Nelson. 3,049,463.
Phipps, Ernest S. 3,065,101.
Shepherd, Ridgley G., Jr. 3,043,732.
Sloan, Donald D., and Swett. 3,036,519.
Tedeschi, Edward T. 3,035,752.
Dennistion, Donald W., to Pittsburgh Plate Glass Co. Combustion chamber burner for producing glass fibers. 3,048,-217, 8–7–62, Cl. 158—116.
Dennler, George F. Reel loading and unloading apparatus. 3,026,059, 3–20–62, Cl. 242—84.5.
De Nobel, Dirk, and F. A. Kroger, to North American Philips Co. Method of manufacturing high-ohmic cadmium telluride for use in semi-conductor devices of photosensitive devices. 3,033,791, 5–8–62, Cl. 252—62.3.
De Nora, Vittorio, to Oronzio de Nora Impianti Elettrochimici. Horizontal electrolytic cell. 3,042,602, 7–3–62, Cl. 204—220.
Den Ouden, Wouter, to Electrotechnische Industrie Voorheen Willem Smit & Co., N.V. Plural condition responsive generator fed motor control system. 3,047,786, 7–31–62, Cl. Cl. 318—153.
Denovan, John J. and R. A., to Denovan Ltd. Snow blower. 3,056,218, 10–2–62, Cl. 37—43.
Denovan Ltd. : *See*—
Denovan, John J. and R. A. 3,056,218.
Denovan, Robert A. : *See*—
Denovan, John J. and R. A. 3,056,218.
Denoyer-Geppert Co. : *See*—
Olson, Keith M. 3,052,993.
Densco, Inc. : *See*—
Graham, Charles D. 3,027,193.
Kester, Fred J. 3,023,306.
Denslow, Keith R. : *See*—
McMillan, William J., and Denslow. 3,066,106.
Denson, William P., Jr., to Copolymer Rubber and Chemical Corp. Process for separating unreacted polymerizable material from diene polymer latex in the presence of a long chain aliphatic alcohol. 3,052,645, 9–4–62, Cl. 260—29.7.
Densz, Rolf : *See*—
Eugster, Conrad H., Densz, Hafliger, and Girod. 3,024,-252.
Eugster, Conrad H., Henss, Hafliger, and Girod. 3,041,-355.
Denss, Rolf, E. Girod, and F. Hafliger, to Geigy Chemical Corp. New basic compounds of the dihydrofuran series. 3,031,465, 4–24–62, Cl. 260—347.7.
Dent, Eric. Flashlight construction. 3,017,502, 1–16–62, Cl. 240—10.68.
Dent, Eugene, and R. E. Weiser, to General Motors Corp. Compressor turbine. 3,037,742, 6–5–62, Cl. 253—77.
Dent, Eugene, and C. R. Moffett, to General Motors Corp. Liquid cooled wall. 3,043,103, 7–10–62, Cl. 60—35.6.
Dent, Kenneth H., to United Kingdom Atomic Energy Authority. Heterogeneous nuclear reactor fuel element charging and discharging means. 3,051,642, 8–28–62, Cl. 204—193.2.
Dent, Paul. Artificial tooth structure and plate therefor. 3,015,888, 1–9–62, Cl. 32—9.
Dent, Walter T., to Imperial Chemical Industries Ltd. Production of secondary and tertiary amines. 3,065,269, 11–20–62, Cl. 260—576.
Dentalwerk Burmoos Ges. m.b.H. : *See*—
Buchsteiner, Josef. 3,054,186.
Denti, Francesco : *See*—
Maragliano, Domenico, and Denti. 3,019,507.
Dentists' Supply Co. of New York, The : *See*—
Fritz, Carroll S. 3,018,884.
Saffir, Jacob A. 3,069,773.
Saffir, Jacob A. 3,070,381.
Denton, Eugene C. : *See*—
Alsberg, Dietrich A., and Denton. 3,045,235.
Denton, Fred L. Packing case for shipping dishes and the like. 3,067,869, 12–11–62, Cl. 206—65.
Denton, Harvey R. Means and method for banding objects. 3,015,916, 1–9–62, Cl. 53—3.
Denton, Richard A., R. P. Le Riche, and M. P. Rivera, to The New York Air Brake Co. Pressure gauge. 3,021,712, 2–20–62, Cl. 73—399.
Denton, William I., to Olin Mathieson Chemical Corp. Preparation of lithium phosphate. 3,044,850, 7–17–62, Cl. 23—107.
D'Entremont, Donald J. : *See*—
Baird, William G., Jr., Lindstrom, Besse, and D'Entremont. 3,022,543.
Denver Equipment Co. : *See*—
Daman, Arthur C. 3,064,906.
Logue, Leland H. 3,054,230.
Denver Publishing Co., The : *See*—
Larsen, Charles T., and Malinowski. 3,060,994.
Denver Wood Products Co. : *See*—
Nesbitt, George G. 3,018,004.
Nesbitt, George G. 3,031,727.

Denzin, Horst G. G.: *See*—
Hornauer, Gunter W. R., and Denzin. 3,053,446.
Deobald, Harold J., and T. A. McLemore, to United States of America, Agriculture. Process for preparing a precooked dehydrated sweetpotato product. 3,046,145, 7–24–62, Cl. 99—207.
De Paepe, Charles E.: *See*—
Anderson, Kenneth A., and De Paepe. 3,028,968.
Depallens, Jules. Friction-operated shock absorber for vehicle suspensions. 3,070,193, 12–25–62, Cl. 188—129.
De Palma, James A., to General Railway Signal Co. Highway signalling system. 3,035,246, 5–15–62, Cl. 340—41.
De Paoli, Mariano. Cutting head for a dry shaver having a reciprocating cutter. 3,037,280, 6–5–62, Cl. 30—43.
Department of Mines: *See*—
Archambault, Maurice, MacEwan, and Olivier. 3,017,243.
De Pataky, Maria V. Method of forming decorative bodies. 3,023,122, 2–27–62, Cl. 117—38.
De Paul, Aiseno S., R. G. Gueck, and W. H. Morse, to Westinghouse Electric Corp. Dynamoelectric machine. 3,064,152, 11–13–62, Cl. 310—254.
De Paul, Richard E., to Container Corp. of America. Bottle carrier. 3,029,999, 4–17–62, Cl. 229—40.
De Paul, Richard E., to Container Corp. of America. Reclosable display carton. 3,030,000, 4–17–62, Cl. 229—51.
De Paul, Richard E., to Container Corp. of America. Bottle carrier. 3,040,962, 6–26–62, Cl. 229—40.
De Paul, Richard E., to Container Corp. of America. Bottle carrier. 3,042,283, 7–3–62, Cl. 229—40.
De Pava, Alberto V., to Societa Generale per l'Industria Mineraria e Chimica Montecatini. Valveless pump, particularly for fused salts or metals. 3,063,930, 11–13–62, Cl. 204—244.
De Pava, Alberto V., to Montecatini-Societa Generale per L'Industria Mineraria e Chimica. Furnace for fused-bath electrolysis, particularly for aluminum production from Al_2O_3. 3,067,124, 12–4–62, Cl. 204—244.
De Pellegrini, Albert J., and P. J. Martell. Lubricator mechanism for a picker spindle. 3,043,343, 7–10–62, Cl. 139—158.
De Penti, Kenneth L., to National Castings Co. Car coupler. 3,029,956, 4–17–62, Cl. 213—147.
De Peuter, Jan B.: *See*—
Lens, Georges X., and De Peuter. 3,068,988.
De Pew, Chester C.: *See*—
Gray, Eugene B., and De Pew. 3,043,563.
De Pew, Chester C., to Chester Corp. Filler cap assembly. 3,035,734, 5–22–62, Cl. 220—24.5.
De Pew, Chester C., to Aerpat A.G. Cargo release pin assembly. 3,065,011, 11–20–62, Cl. 287—119.
De Pew, Chester C., to Aerpat A.G. Load retaining device. 3,069,191, 12–18–62, Cl. 287—119.
De Pierri, William G., Jr.: *See*—
Earhart, Harold W., and De Pierri. 3,022,355.
Earhart, Harold W., and De Pierri. 3,030,427.
De Pierri, William G., Jr., W. R. Edwards, and H. G. Boynton, to Esso Research and Engineering Co. Recovery of 1,3,5-trimethylbenzene by alkylation of C_9 isomers with aluminum chloride. 3,052,741, 9–4–62, Cl. 260—671.
De Pietro, Anthony J. Stress breaker for artificial dentures. 3,019,528, 2–6–62, Cl. 32—5.
De Pietro, Anthony J. Dental articular. 3,019,530, 2–6–62, Cl. 32—32.
De Pietro, Anthony J. Dental face bow and hinge axis locator. 3,056,210, 10–2–62, Cl. 33—174.
De Pisapia, Nicola: *See*—
Messina, Giuseppe, De Pisapia, Spano, and Condorelli. 3,056,829.
De Place, Henry. Safety knock-off device for ski binder. 3,037,785, 6–5–62, Cl. 280—11.35.
Depmer, Wilhelm. Method of and apparatus for separating solids from solvent vapors. 3,057,077, 10–9–62, Cl. 34—32.
Deponai, Joseph G. Anti-skid assembly. 3,018,811, 1–30–62, Cl. 152—233.
De Poy, Martin L., II, B. A. Pattan, and R. F. Lucy, to Sylvania Electric Products Inc. Pulse radar system with microwave switch. 3,019,431, 1–30–62, Cl. 343—17.1.
Deppe, Wolfgang: *See*—
Hartmann, Kurt, Husing, Seidel, Deppe, and Gredigk. 3,057,008.
De Pree, David O., and E. G. De Witt, to Ethyl Corp. Organometallic compounds. 3,051,748, 8–28–62, Cl. 260—526.
De Pree, Hugh W.: *See*—
Schurger, Garner H., and De Pree. 3,041,940.
Deprez, Andre C., and J. W. Colton, to Scientific Design Co., Inc. Process for purifying isoprenes. 3,031,515, 4–24–62, Cl. 260—681.5.
Deprez, Charles, to Solvay & Cie. Process of halogenation. 3,025,332, 3–13–62, Cl. 260—654.
De Prez, Charles, to Solvay & Cie. Process of hydrohalogenation of acetylene. 3,059,034, 10–16–62, Cl. 260—656.
Deprez, Charles, R. Bulté, and R. Crabbe, to Solvay & Cie. Apparatus for automatic regulation, during working, of the distance between the electrodes of electrolytic cells having a movable mercury cathode. 3,052,618, 9–4–62, Cl. 204—225.
Deprez, Thomas A., and E. A. Hediger, to The Gleason Works, Adjustment device. 3,064,489, 11–20–62, Cl. 74—409.
De Prisco, Carmine F.: *See*—
Elmore, William C., and De Prisco. 3,017,792.
Elmore, William C., and De Prisco. 3,054,309.
Jones, James B., De Prisco, and Weismantel. 3,039,333.
Jones, James B., Elmore, and De Prisco. 3,052,020.
Deptula, Frank J., R. A. Hanson, E. C. Leavit, and J. C. Flansburgh, to Yard-Man, Inc. Riding lawn mower. 3,038,288, 6–12–62, Cl. 56—25.4.
Deputy, Marshall P., to The Fog-Master Corp. Fog light for illuminating airport runways. 3,032,641, 5–1–62, Cl. 240—1.2.
DePuy Mfg. Co., Inc.: *See*—
Hoopes, Amrette W. 3,068,861.
Dequasie, Henry L.: *See*—
Hignutt, Frank A. and R. R., and Dequasie. 3,048,839.
De Radzitzky, Pierre, to Labofina. Separation of alcohols. 3,021,374, 2–13–62, Cl. 260—631.
De Ramaix, Maurice A., and J. Jaeken, to Gevaert Photo-Producten N.V. Production of color photographic images. 3,047,385, 7–31–62, Cl. 96—9.
Deramee, Edmond L., Jr.: *See*—
Walker, John M., Jr. 3,019,502.
Derby, George T. Leg and foot support. 3,066,322, 12–4–62, Cl. 5—327.
Derby, Marshall T., to C.I.P. Co., d.b.a. California Industrial Products, Inc. Machine having plural tapping spindles movable in a circular path. 3,058,128, 10–16–62, Cl. 10—132.
Derby, Palmer P.: *See*—
Deblench, Edward C., and Derby. 3,038,067.
Derby, Palmer P., and L. W. Geier, to Raytheon Co. Magnetron electron discharge devices. 3,046,445, 7–24–62, Cl. 315—39.51.
Derefa Etablissements pour le Developpement, Recherches et fabrications Industrielles, Societe dite: *See*—
Deflandre, René. 3,037,430.
Deflandre, Rene. 3,062,104.
Deremer, Floyd E., to Oldberg Mfg. Co. Sound-attenuating system and apparatus for gas streams. 3,070,187, 12–25–62, Cl. 181—55.
Dereska, Joseph S., J. O. Koehler, and A. F. Vinal, to Union Carbide Corp. Polyhalogen depolarizers. 3,057,760, 10–9–62, Cl. 136—137.
Der-Hagopian, Nishan. Fish hooks. 3,047,977, 8–7–62, Cl. 43—44.8.
Derhalli, Zoubdi M.: *See*—
Farmer, Stanley E., and Derhalli. 3,053,596.
Deriaud, Jean-Pierre, to Eastman Kodak Co. Apparatus and method for magnetically orienting particles. 3,021,230, 2–13–62, Cl. 117—93.
De Ridder, Ernst J.: *See*—
Kennedy, Rex G., and De Ridder. 3,029,052.
De Ridder, Ernst J., to Reynolds Metals Co. Interlocking metallic structural members. 3,055,461, 9–25–62, Cl. 189—34.
De Ridder, Ernst J., and K. F. Glaser, to Reynolds Metals Co. Method for straightening metallic extrusions. 3,062,264, 11–6–62, Cl. 153—22.
De Ridder, Ernst J., and G. F. Swenck, to Reynolds Metals Co. Double faced panels. 3,062,338, 11–6–62, Cl. 189—34.
Dering, Roger, ⅛o to P. A. Mallinckrodt, and ⅛o to J. B. Darragh. Flotation process for separating bituminous matter from associated gangue minerals. 3,061,097, 10–30–62, Cl. 209—166.
Deringer, Wayne A.: *See*—
Boncher, Harry P., and Deringer. 3,037,925.
Derks, Richard J.: *See*—
Pieschke, Ralph L., and Derks. 3,030,529.
Derks, Richard J., to Eaton Mfg. Co. Grease check valve. 3,070,410, 12–25–62, Cl. 308—134.1.
Derler, Charles J., to Jackson Vibrators, Inc. Tie tamping or ballasting machine. 3,070,034, 12–25–62, Cl. 104—12.
Derman, Karl G. E.: *See*—
Bratt, Axel E., and Derman. 3,022,125.
Derman, Karl G. E., to Svenska Kullagerfabriken, Aktiebolaget. Sealing arrangement. 3,044,787, 7–17–62, Cl. 277—83.
Derman, Karl G. E., and N. B. R. Snare, to Svenska Kullagerfabriken, Aktiebolaget. Centrifugal seal. 3,042,417, 7–3–62, Cl. 277—25.
Derman, Sam. Strip and bracket units for supporting shelves and other articles. 3,057,483, 10–9–62, Cl. 211—148.
Derman, Sam. Knockdown cabinets. 3,066,995, 12–4–62, Cl. 312—297.
Dermit, George, to General Telephone and Electronics Laboratories, Inc. High frequency tunnel diode. 3,030,557, 4–17–62, Cl. 317—234.
Dermody, William F., and T. H. Meltzer, to The Electric Storage Battery Co. Method of producing a microporous polymeric resin. 3,062,760, 11–6–62, Cl. 260—2.5.
Dernburg, Greta. Brassiere. 3,054,407, 9–18–62, Cl. 128—472.
Derntl, Josef, to Vereinigte Osterreichische Eisen- und Stahlwerke Aktiengesellschaft. Bearing alloys. 3,031,298, 4–24–62, Cl. 75—140.
Deroche, John W.: *See*—
Grant, Whitney I., and Deroche. 3,070,282.
De Roos, Huib: *See*—
Treseder, Richard S., and De Roos. 3,062,684.
De Roos, Huib, and W. F. Jense, to Shell Oil Co. Method of inhibiting corrosion of iron and steel. 3,050,360, 8–21–62, Cl. 21—2.7.
De Rosa, Adrian L. Bi-plex stereophonic recording and reproducing system. 3,018,335, 1–23–62, Cl. 179—100.11.
De Rosa, John A.: *See*—
Lieb, Harry C., and De Rosa. 3,038,953.

De Rose, Anthony F., to Abbott Laboratories. Process for making crystalline potassium salt of gibberellic acid. 3,057,878, 10–9–62, Cl. 260—343.3.

De Rose, Anthony F., to Abbott Laboratories. Process for the preparation of salts of penicillin. 3,062,811, 11–6–62, Cl. 260—239.1.

De Rosset, Armand J., to Universal Oil Products Co. Protection of catalysts in the conversion of lead-contaminated waste products. 3,053,612, 9–11–62, Cl. 23—2.

Derr, Lloyd J.: *See*—
Mathison, Richard P., and Derr. 3,032,650.

Derr, Willard A., and W. L. Metz, to Westinghouse Electric Corp. Supervisory control and remote metering. 3,040,297, 6–19–62, Cl. 340—150.

Derr, Willard A., and W. F. Cruess, to Westinghouse Electric Corp. Supervisory control apparatus. 3,048,820, 8–7–62, Cl. 340—163.

Derrickson, Michael O., to American Viscose Corp. Strap tensioning tool. 3,066,706, 12–4–62, Cl. 140—123.6.

Derrington, Edward R., and R. F. Ray, to Lockheed Aircraft Corp. Drain valve. 3,026,897, 3–27–62, Cl. 137—315.

Dersch, Fritz: *See*—
Popeck, Stanley P., Dersch, and Wurth. 3,044,874.
Rauch, Emil B., and Dersch. 3,026,201.

Dersch, Fritz, to General Aniline & Film Corp. Antifoggant and stabilizer for photographic silver halide emulsions. 3,052,544, 9–4–62, Cl. 96—107.

Dersch, Fritz, to General Aniline & Film Corp. Stabilized photographic silver halide emulsions containing iodine complexes of poly-N-vinyl-2-oxazolidinones. 3,060,028, 10–23–62, Cl. 96—66.

Dersch, Fritz, to General Aniline & Film Corp. N-acylhomocysteine thiolactone stabilizers for photographic silver halide emulsions. 3,068,100, 12–11–62, Cl. 96—66.

Dersch, Fritz, and S. P. Popeck, to General Aniline & Film Corp. Photographic materials and method of producing the same. 3,021,213, 2–13–62. Cl. 96—67.

Dersch, Fritz, and N. J. Doorenbos, to General Aniline & Film Corp. Direct positive photographic emulsion. 3,023,102, 2–27–62. Cl. 96—101.

Dersch, Fritz, and M. R. De Angelus, to General Aniline & Film Corp. Antifoggants and stabilizers for photographic silver halide emulsions. 3,023,103, 2–27–62, Cl. 96—109.

Dersch, Fritz, E. B. Rauch, to General Aniline & Film Corp. Antifoggants and stabilizers for photographic silver halide emulsion. 3,042,521, 7–3–62, Cl. 96—66.

Dersch, Fritz, and M. R. De Angelus, to General Anilin & Film Corp. Photographic materials containing a chemical sensitizer. 3,046,130, 7–24–62, Cl. 96—66.

Dersch, Fritz, F. J. Kaszuba, and E. B. Rauch, to General Aniline & Film Corp. Antifoggants and stabilizers for photographic silver halide emulsions. 3,051,570, 8–28–62, Cl. 96—67.

Dersch, William C., to International Business Machines Corp. Filter circuit. 3,017,586, 1–16–62, Cl. 333—17.

Derschmidt, Hans, to Bölkow-Entwicklungen Kommanditgesellschaft. Rotary wing or blade systems for helicopters. 3,035,644, 5–22–62, Cl. 170—160.25.

Derschmidt, Hans, to Bolkow-Entwicklungen K.G. Control mechanism for rotorcraft. 3,053,326, 9–11–62, Cl. 170—160.25.

Dershowitz, Samuel, to Polaroid Corp. Photographic process, products and compositions. 3,019,108, 1–30–62, Cl. 96—66.

Dershowitz, Samuel, to Polaroid Corp. Photographic products and processes utilizing triptycene diol silver halide developers. 3,065,075, 11–20–62, Cl. 96—29.

Dertouzos, Michael L., to The Baldwin Piano Co. Photoelectric encoder. 3,058,001, 10–9–62, Cl. 250—208.

De Rugeris, John. Rider for brush on commutator. 3,052,764, 9–4–62, Cl. 200—28.

De Ruggieri, Pietro, to Ormonoterapia Richter S.p.A. 17-cyanohydrin of 19-nor androstenedione and 3-derivatives thereof. 3,043,833, 7–10–62, Cl. 260—239.55.

De Ruggieri, Pietro, to Ormonoterapia Richter S.p.A. Steroidal azines. 3,062,847, 11–6–62, Cl. 260—397.5.

De Ruggieri, Pietro. 5-hydrazone steroids of the androstane and estrane series and derivatives thereof. 3,069,414, 12–18–62. Cl. 260—239.5.

De Ruggieri, Pietro, to Ormonoterapia Richter S.p.A. 16-methyl-pregnane. 3,070,614, 12–25–62, Cl. 260—397.4.

De Ruggieri, Pietro, C. Ferrari, and C. Gandolfi, to Ormonoterapia Richter S.p.A. 17β-(1′-alkoxy-ethylidene-amino) steroids. 3,029,262, 4–10–62, Cl. 260—397.5.

De Ruggieri, Pietro, and C. Ferrari, to Ormonoterapia Richter S.p.A. Preparation of 6α-methyl-17α-hydroxyprogesterone and 17α-esters thereof. 3,043,832, 7–10–62, Cl. 260—239.55.

De Ruggieri, Pietro, and C. Ferrari. Steroid hormone compositions and method of using same. 3,062,713, 11–6–62, Cl. 167—53.

De Ruiter, Jacob W., to North American Philips Co., Inc. High-frequency furnace. 3,061,768, 10–30–62, Cl. 321—16.

Derwin, John W.: *See*—
Stresau, Richard H. F., and Derwin. 3,045,524.

Dery, Dezso: *See*—
Sofranko, Andrew J., and Dery. 3,059,509.

De Rycke, Douglas A. C.: *See*—
Bonath, Klaus, Endter, De Rycke, Lewis, and Rippon. 3,069,335.

Der Yuen, Frank, to Lockheed Air Terminal, Inc. Apparatus for facilitating the loading and unloading of passengers and cargo. 3,046,908, 7–31–62, Cl. 104—20.

Der Yuen, Frank, and F. B. Johnson, to Lockheed Aircraft Corp. Aero-gangplank. 3,060,471, 10–30–62, Cl. 14—71.

De Saedeleer, Albert L. Apparatus for the humidification of vegetable matter, more especially tobacco. 3,037,511, 6–5–62, Cl. 131—134.

De Saint Chamant, Henri: *See*—
Driessen, Augustin, and De Saint Chamant. 3,044,848.

De Saint-Martin, Lucien, to Institut de Recherches de la Siderurgie Francaise. Static distributor for pulverulent material. 3,053,420, 9–11–62. Cl. 222—195.

De Sanno, A. P., & Son, Inc.: *See*—
Molly Edward J. 3,041,797.

De Saulles, Pierre-Antoines: *See*—
Wettstein, Albert, Neher, De Saulles, Vischer, and Wieland. 3,033,748.

Desaulniers, Eugene W., Jr.: *See*—
Brouse, David Y., and Desaulniers. 3,045,460.

De Saussure Equipment Co., Inc.: *See*—
De Saussure, William P. 3,046,073.

De Saussure, William P., to De Saussure Equipment Co., Inc. Folding leg for tables and the like. 3,046,073, 7–24–62, Cl. 311—58.

Desbois, Bernard, to Pechiney, Compagnie de Produits Chimiques et Electrometallurgiques. Process for the preparation of niobium oxide. 3,024,087, 3–6–62, Cl. 23—140.

Desbois, Theodore J. Container and support therefor. 3,069,059, 12–18–62, Cl. 229—6.

Descarries, Raymond, to Aktiebolaget Electrolux. Vacuum cleaner with wheeled undercarriage. 3,015,123, 1–2–62, Cl. 15—327.

Descarries, Raymond, to Aktiebolaget Electrolux. Vacuum cleaner cover latch control. 3,016,982, 1–16–62, Cl. 183—43.

Descarries, Raymond, to Aktiebolaget Electrolux. Tool harness. 3,020,573, 2–13–62, Cl. 15—49.

Descarries, Raymond, to Aktiebolaget Electrolux. Vacuum cleaner structure. 3,021,028, 2–13–62, Cl. 220—35.

Descarries, Raymond, to Aktiebolaget Electrolux. Fastening means for suction cleaner end cover. 3,022,101, 2–20–62, Cl. 292—114.

Descarries, Raymond, to Electrolux, Aktiebolaget. Suction cleaner structure. 3,031,031, 4–24–62, Cl. 55—413.

Descarries, Raymond, to Electrolux, Aktiebolaget. Electrical coupling device. 3,031,637, 4–24–62, Cl. 339—105.

Descaries, Raymond, to Electrolux, Aktiebolaget. Multipurpose suction cleaner nozzle. 3,048,877, 8–14–62, Cl. 15—417.

Deschenes, Emile A., to United Shoe Machinery Corp. Shoe supports for lasting machines. 3,040,346, 6–26–62, Cl. 12—55.

Deschenes, Paul L., and H. C. Royce, Jr., to General Electric Co. Automatic work performing methods and apparatus. 3,039,176, 6–19–62, Cl. 29—33.

Deschere, Paul R. Liquid filter. 3,047,154, 7–31–62, Cl. 210—99.

Deschner, Richard E. Hydraulic control device. 3,027,152, 3–27–62, Cl. 267—1.

Deschner, Richard E. Control mechanism for reciprocating tool feeding devices. 3,053,120, 9–11–62, Cl. 77—33.5.

De Senigon de Roumefort, Francois: *See*—
Budts, Lucien, and F. and J. de Senigon de Roumefort. 3,041,477.

De Senigon de Roumefort, Jeanne: *See*—
Budts, Lucien, and F. and J. de Senigon de Roumefort. 3,041,477.

Deseret Pharmaceutical Co., Inc.: *See*—
Ballard, Dale H. 3,055,361.

Deserno, Peter, and M. Schnädelbach, to Siemens & Halske Aktiengesellschaft. Cooling thermally stressed parts of electron tubes. 3,043,973, 7–10–62, Cl. 313—40.

De Seversky, Alexander P. to Electronatom Corp. Gas conditioner. 3,053,029. 9–11–62, Cl. 55—118.

Desfossez, Paul, to Societe Anonyme des Forges & Acieries de Dilling. Open cooling boxes of metallurgical furnaces, especially of blast furnaces. 3,030,095, 4–17–62, Cl. 266—32.

Desgane, Edwige (nee Harvey). Cap for collapsible tube. 3,045,860, 7–24–62, Cl. 220—31.

Des Granges, Maino. Standard repetitive dive decompression computer. 3,058,653, 10–16–62, Cl. 235—88.

De Shano, Roy J. Collapsible tent shelter. 3,034,523, 5–15–62, Cl. 135—5.

De Shazo, James D.: *See*—
Collard, Clarence A., and De Shazo. 3,031,969.

De Shazo, James D., to Phillips Petroleum Co. Restricting material for solid rocket propellant. 3,029,736, 4–17–62, Cl. 102—98.

De Shazor, James C., Jr., to Plan-O-Bans Corp. Sales container for young plants. 3,053,010, 9–11–62, Cl. 47—34.

De Shon, Roy F., and H. H. Clement, to The Seeburg Corp. Secondary article dispenser for vending machines. 3,056,529, 10–2–62, Cl. 221—15.

Design Center, Inc.: *See*—
Menkel, Gary G. 3,036,336.
Menkel, Gary G. 3,051,361.

Design and Mfg. Corp.: *See*—
Burke, Louis L. 3,035,706.

Designers For Industry, Inc.: *See*—
Lannan, Patrick E. 3,068,361.

De Silva, John. Nest hammock for mink. 3,037,480, 6–5–62, Cl. 119—45.

De Simone, Louis W.: *See*—
Bates, Grayson F., and De Simone. 3,017,549.
Deska, Theodore J., and J. Harvey, to Eaton Mfg. Co. Rotary pumps. 3,016,834, 1–16–62, Cl. 103—4.
Desmarais, Emile. Telescopic support. 3,064,934, 11–20–62, Cl. 248—409.
Desmond, John D., to Container Corp. of America. Tuck top carton with lock. 3,016,181, 1–9–62, Cl. 229—39.
Desmond-Stephan Mfg. Co., The: *See*—
McConnell, Robert S. 3,039,451.
Desmond, Timothy J., to General Motors Corp. Gold base alloy. 3,060,018, 10–23–62, Cl. 75—165.
De Snoo, Arie P., and R. J. Maxim, to Allis-Chalmers Mfg. Co. Thermal relay for cage winding protection of synchronous motors. 3,069,609, 12–18–62, Cl. 318—170.
De Sola Mosely, John: *See*—
Greenspan, Edward B., and De Sola Mosely. 3,056,401.
Despard, Victor R., to Pass & Seymour, Inc. Electrical connector body and cap construction with improved conductor securing means. 3,020,516, 2–6–62, Cl. 339—101.
Despard, Victor R., to Pass & Seymour, Inc. Moulded ceramic part with ribs to indent a cooperating part. 3,031,911, 5–1–62, Cl. 85—36.
Despres, Walter H.: *See*—
Jamieson, Philip D., and Despres. 3,035,603.
Des Roches, Emile. Anti-cribbing devices. 3,024,767, 3–13–62, Cl. 119—129.
Des Rosier, James S. Portable tepee. 3,042,052, 7–3–62, Cl. 135—1.
Dess, Howard M., to Pennsalt Chemicals Corp. Fluorine-substituted hydro-1,3,5-triazine. 3,038,900, 6–12–62, Cl. 260—248.
Dessalles, Roberto: *See*—
Ausenda, Carlo, and Dessalles. 3,068,721.
Dessauer, Ralph: *See*—
Groudan, Alan, Wirfel, Lustig, and Dessauer. 3,040,259.
Dessauer, Rolf, to E. I. du Pont de Nemours and Co. Process of coloring anodized aluminum. 3,019,143, 1–30–62, Cl. 148—6.1.
Dessler, Alexander J., to Lockheed Aircraft Corp. Method and apparatus for detecting magnetic field gradients. 3,030,571, 4–17–62, Cl. 324—.5.
Dessler, Alexander J., to Lockheed Aircraft Corp. Fluid detector arrangement. 3,038,344, 10–16–62, Cl. 73—178.
Dessler, Alexander J., J. F. Vedder, and M. Hertzberg, to Lockheed Aircraft Corp. Apparatus for accelerating micron-size particles to meteoric velocities. 3,036,213, 5–22–62, Cl. 250—41.9.
De Staat der Nederlanden ten Deze Vertegenwoordigd Door de Directeur-Genereal der Posterijen, Telegrafie En Telefonie: *See*—
Snijders, Antonie. 3,059,127.
Van Duuren, Hendrik C. A., and Tuinman. 3,026,372.
De Stephen, Albert M.: *See*—
Gibson, Walter J., De Stephen, and Allardt. 3,056,285.
Destoumieux, Paul: *See*—
Amirault, Maxime, and Destoumieux. 3,018,112.
Destremps, Edward A., and E. J. Gornowski, to Esso Research and Engineering Co. Manufacture of dense, coherent carbon masses. 3,043,753, 7–10–62, Cl. 202—26.
Destuynder, Roger M., and H. F. M. Loiseau, to Office National d'Etudes et de Recherches Aeronautiques. Method and means for investigating structures in vibration. 3,039,-296, 6–19–62, Cl. 73—67.2.
Desty, Denis H., J. N. Haresnape and B. H. F. Whyman, to The British Petroleum Co. Ltd. Process for producing glass helices. 3,046,699, 7–31–62, Cl. 49—84.
Desvaux, Jacques, and F. Berthet. Bore-hole drilling including tubing of the drilled hole. 3,023,820, 3–6–62, Cl. 175—55.
Desvignes, Jean L., and P. Gancel, to The Bendix Corp. Disc brake. 3,035,664, 5–22–62, Cl. 188—73.
Detape, Andre: *See*—
Le Parquier, Guy, and Detape. 3,038,155.
De-Tec-Tronic Corp.: *See*—
Eidam, Arthur E. 3,069,601.
De Telecommunications, Societe Anonyme: *See*—
Salzmann, Jean L. 3,056,095.
De Temple, Donald E. Helicopter and control mechanism therefor. 3,034,746, 5–15–62, Cl. 244—17.11.
Deters, Elmer M.: *See*—
Patterson, Glenn A., and Deters. 3,037,669.
Detert, Ernst-Rolf, and W. Buchholz. Tobacco foils and methods of making the same. 3,062,688, 11–6–62, Cl. 131—17.
Detert, Henry W.: *See*—
Johnson, Clarence E., and Detert. 3,044,085.
Dethardt, Richard C.: *See*—
Ribbens, Jacob J., and Dethardt. 3,031,088.
Ribbens, Jacob J., and Dethardt. 3,033,634.
Dethardt, Richard C., and J. J. Ribbens, to Tab Products Co. Collapsible file holder. 3,033,378, 5–8–62, Cl. 211—126.
Dethardt, Richard D.: *See*—
Ribbens, Jacob J., and Dethardt. 3,067,882.
Dethier, Desire J. P. Stiffening device for collars and detachable collars, and collars and detachable collars conditioned for applying such stiffening device. 3,060,447, 10–30–62, Cl. 2—132.
Dethloff, Jurgen: *See*—
Matusche, Heinz. 3,058,252.
De Tienda y Ricon, Francisco, and A. A. Miranda. Paper sizing composition. 3,066,039, 11–27–62, Cl. 106—243.
Detjen, Edgar W.: *See*—
Stoelting, Carl R., and Detjen. 3,035,420.
Detrex Chemical Industries, Inc.: *See*—
Etterman, Edwin E. 3,026,113.
Jacobsen, John B., Christian, and McNamara. 3,049,134.
Kearney, Thomas J. 3,032,043.
Kearney, Thomas J., and Nuber. 3,029,929.
Kearney, Thomas J., and Young. 3,042,553.
Kearney, Thomas J., and Young. 3,046,163.
Petering, Wilbur H., and Callahan. 3,031,410.
Petering, Wilbur H., and Callahan. 3,031,411.
Petering, Wilbur H., and Callahan. 3,031,412.
Ross, Wilford H., Jr., Maloney, and Stapleton. 3,060,-066.
Smith, Jack C., and Etterman. 3,046,081.
Smith, Jack C., Etterman, and Romine. 3,063,564.
Detrich, Keith R., and L. R. Wagner; said Detrich assor. of ½ to O. O. Royer. Magnetic mount for gun sights. 3,037,288, 6–5–62, Cl. 33—50.
Detrick, M. H., Co.: *See*—
Hosbein, John M., and Barre. 3,056,362.
Hosbein, Louis H. 3,016,655.
Hosbein, Louis H. 3,023,545.
Hosbein, Louis H. 3,044,125.
Hosbein, Louis H., and Over. 3,015,288.
Detroit Aluminum & Brass Corp.: *See*—
Schneider, Leon. 3,063,543.
Detroit Bank & Trust Co.: *See*—
Jackson, Corwill. 3,022,744.
Detroit Coil Co.: *See*—
Jencks, Hollis W. 3,017,547.
Detroit Edison Co., The: *See*—
Anderson, Clarence A. 3,017,483.
Cawker, Charles E., and Gould. 3,026,910.
Collins, Thomas H. 3,064,935.
Mulavey, James E., and Hartz. 3,027,513.
Shuttleworth, Cornelius J., and McConnell. 3,015,228.
Detroit Macoid Corp.: *See*—
Leendrie, George S. 3,028,641.
Detroit Power Screwdriver Co.: *See*—
Gladfelter, Robert F., Faull, and Gill. 3,021,980.
Detroit Stamping Co.: *See*—
Damm, Dominic J. 3,061,918.
Kruger, Ralph E. 3,051,028.
De Troye, Nicolaas C., to North American Philips Co., Inc. Matrix-memory arrangement. 3,015,808, 1–2–62, Cl. 340—174.
Detterman, Robert L.: *See*—
Johnson, Burford L., and Detterman. 3,038,845.
Detthing, Martin. Rotating ring grain cleaner. 3,051,311, 8–28–62, Cl. 209—292.
D'Ettorre, Alfred J., A. W. Heck, W. H. Kauffman, and D. L. Ranville, ⅓ to B. R. D'Ettorre, ⅓ to M. V. Heck, ⅓ to E. K. Kauffman, and ⅓ to D. M. Ranville. Luggage means with retractable wheels. 3,057,636, 10–9–62, Cl. 280—37.
D'Ettorre, Bonnie R.: *See*—
D'Ettorre, Alfred J., Heck, Kauffman, and Ranville. 3,057,636.
Dettre, Robert H.: *See*—
Gray, Charles L., Jr., and Dettre. 3,051,593.
Dettwyler, William, to E. I. du Pont de Nemours and Co. Vat-stable vat dye and process of making the same. 3,024,254, 3–6–62, Cl. 260—362.
Dettwyler, William, to E. I. du Pont de Nemours and Co. Chromation of azo dyes. 3,051,696, 8–28–62, Cl. 260—147.
Dettwyler, William, to E. I. du Pont de Nemours and Co. Nitrosation process. 3,051,750, 8–28–62, Cl. 260—556.
D'Etude et de Construction de Moteurs d'Aviation, Societe Nationale: *See*—
David, Otto A. 3,032,314.
De Tuncq, Harold R., and L. R. Herring. Material gathering apparatus. 3,040,505, 6–26–62, Cl. 56—28.
De Turk, Calvin E., to Philco Corp. Ice makers. 3,056,271, 10–2–62, Cl. 62—353.
Detwiler, Byron L. Selecting machines. 3,065,852, 11–27–62, Cl. 209—88.
Detwiler, Delma A.: *See*—
Detwiler, Harry S. 3,066,474.
Detwiler, Harry S., and Nelson. 3,048,004.
Detwiler, Harry S.: *See*—
Reese, James H., and Detwiler. 3,034,285.
Detwiler, Harry S., deceased (D. A. Detwiler, administratrix), and C. A. Nelson, to The Hamilton Watch Co. Electric watch. 3,048,004, 8–7–62, Cl. 58—28.
Detwiler, Harry S., to Hamilton Watch Co. Pallet fork contacting and indexing means for electric watch. 3,059,413, 10–23–62, Cl. 58—28.
Detwiler, Harry S., to Hamilton Watch Co. Electric timepiece contact bridge. 3,063,234, 11–13–62, Cl. 58—28.
Detwiler, Harry S., deceased, by D. A. Detwiler, administratrix, to Hamilton Watch Co. Contact and index mechanism. 3,066,474, 12–4–62, Cl. 58—28.
Detwiler, Harry S., J. H. Reese, and P. J. Serlemitsos, to The Hamilton Watch Co. Electric watch. 3,015,206, 1–2–62, Cl. 58—28.
Detwiler, Manson K.: *See*—
Van Horne, and Detwiler. 3,057,185.
Detwiler, Robert L., to United States of America, Navy. Sabot. 3,044,400, 7–17–62, Cl. 102—93.
Deubner, Henry C.: *See*—
Berg, Edward J. M., Deubner, and Nelson. 3,025,151.

Deumens, Johannes J. M.: *See*—
Koopal, Sieds, Verstrijden, Pesch, and Deumens. 3,056,-850.

Deuschel, Werner, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of 2,5-diarylamino-3,6-dihydroterephthalic acid esters. 3,045,040, 7–17–62, Cl. 260—471.

Deussner, Herbert, to Klockner-Humboldt-Deutz Aktiengesellschaft. Apparatus for heating fine granular substances. 3,037,757, 6–5–62, Cl. 263—32.

Deutinger, Henry. Invalid cushion. 3,050,748, 8–28–62, Cl. 5—338.

Deutsch Fastener Corp.: *See*—
Kraus, Robert A. and E. J. 3,060,787.

Deutsch, Fritz A., to Monroe Calculating Machine Co. Resetting mechanism. 3,018,953, 1–30–62, Cl. 235—144.

Deutsch, Kurt, to Imperial Chemical Industries Ltd. Method of manufacturing consumable electrodes. 3,031,300, 4–24–62, Cl. 75—208.

Deutsch, Marshall E., to G. W. Carnrick Co. Compositions comprising amphetamine and carboxymethyl cellulose in chemically combined form. 3,066,075, 11–27–62, Cl. 167—65.

Deutsch, Sidney, and M. Hoch. Clamp garment hanger. 3,054,539, 9–18–62, Cl. 223—91.

Deutsche Akademie der Wissenschaften zu Berlin: *See*—
Rieche, Alfred, Schmitz, and Bischoff. 3,069,474.

Deutsche Angelgerate Manufaktur D.A.M. Hellmuth Kuntze: *See*
Schultz, Rudolf. 3,055,607.

Deutsche Edelstahlwerke Aktiengesellschaft: *See*—
Alf, Fritz. 3,041,434.
Hotop, Werner, Meese, Masjoshusmann, Bohle, and Ginzel. 3,039,390.
Meese, Heinz G., Masjoshusmann, and Hotop. 3,027,835.
Meese, Heinz G., Masjoshusmann, and Hotop. 3,039,389.
Niederhoff, Otto. 3,042,789.

Deutsche Erdol-Aktiengesellschaft: *See*—
Samol, Herbert. 3,020,079.
Schmid, Christoph W. 3,018,660.

Deutsche Gold- und Silber-Scheideanstalt vormals Roessler: *See*—
Bader, Erich. 3,061,459.
Bader, Erich, Schweitzer, and Schworzer. 3,030,170.
Beer, Franz, and Müller. 3,036,887.
Behrends, Jurgen, Schweitzer, Kern, and Hopff. 3,020,-264.
Heilmann, Gerhard. 3,056,733.
Hildenbrand, Konrad. 3,030,092.
Hüter, Ludwig. 3,027,328.
Kern, Werner, Schulz, and Cherdron. 3,036,978.
Kloepfer, Harry. 3,033,801.
Kloepfer, Harry, Frey, Meyer-Simon, and Schrauf. 3,027,230.
Lehn, Alfred. 3,050,359.
Muller, Josef. 3,060,105.
Müller, Josef, and Beer. 3,036,885.
Rink, Karlheinz, and Weihe. 3,059,023.
Schuler, Wilhelm A., Beschke, and von Schlichtegroll. 3,040,043.
Schwarse, Werner. 3,068,242.
Schweitzer, Otto. 3,068,203.
Schweitzer, Otto, and Behrends. 3,051,755.
Thiele, Kurt. 3,042,680.
Torkar, Karl, and Bergmann. 3,038,784.
Worel, Heinrich, and Torkar. 3,027,231.
Wüst, Karl. 3,026,342.

Deutsche Hydrierwerke G.m.b.H.: *See*—
Boller, Carl, Gündel, and Kirstahler. 3,019,123.

Deutsche Star Kugelhalter, G.m.b.H.: *See*—
Dix, Willy, and Wehr. 3,061,386.

Deutsche Tafelglas Aktiengesellschaft Detag: *See*—
Jacobi, Richard, and Boeckling. 3,059,051.
Thum, Rudolf, Killan, and Ramsauer. 3,037,325.

Devall, James W. Holder for ties, jewelry and the like. 3,038,594. 6–12–62, Cl. 206—7.

De Vaney, Fred D., to P-M Associates. Beneficiation of low-grade hematitic ore materials. 3,063,695, 11–13–62, Cl. 266—20.

Devantier, Karl E. Ejecting device for vehicles in collisions. 3,016,969, 1–16–62, Cl. 180—82.

De Varda, Giuseppe. Furnace and process for the electrolysis of aluminum. 3,029,194, 4–10–62, Cl. 204—67.

De Varda, Giuseppe. Multicell electrolytic furnace, including apparatus for rapid starting thereof. 3,063,931, 11–13–62, Cl. 204—244.

Devaud, Albert J., to Burroughs Corp. Terminal connector. 3,029,409, 4–10–62, Cl. 339—217.

De Vaulchier, Dorothy, to Craig Pharmaceutical Co., Inc. Therapeutic compositions. 3,046,196, 7–24–62, Cl. 167—65.

De Vault, Jean C.: *See*—
Lunn, Lawrence M., Shields, and De Vault. 3,043,998.

DeVecchi, Paul, to Cibe Ltd. Method of making lined pipe connections. 3,047,937, 8–7–62, Cl. 29—157.

Develop-Amatic Engineering: *See*—
Schwarze, Ralph W., and Senger. 3,057,648.

Develop Kommanditgesellschaft Dr. Eisbein & Co.: *See*—
Eisbein, Walter T. E., and Moser. 3,069,990.
Moser, Karl K. 3,031,941.

D'Evelynes, Claude. Electronic telegraphic systems. 3,032,-607, 5–1–62, Cl. 178—4.1.

Dever, Charles D., R. J. Harbour, and W. F. Seifert, to The Dow Chemical Co. Method of decreasing friction loss in flowing fluids. 3,023,760, 3–6–62, Cl. 137—13.

Dever, James L.: *See*—
Birum, Gail H., and Dever. 3,018,303.
Birum, Gail H., and Dever. 3,029,271.
Birum, Gail H., and Dever. 3,031,489.
Birum, Gail H., and Dever. 3,053,877.
Birum, Gail H., and Dever. 3,064,032.

Dever, James L., and G. H. Birum, to Monsanto Chemical Co. Organic esters of polyphosphorus compounds. 3,059,017, 10–16–62, Cl. 260—461.

Dever, John A., W. F. Newbold, J. Parnell, and H. L. Latham, Jr., to Minneapolis-Honeywell Regulator Co. Electrical apparatus. 3,064,191, 11–13–62, Cl. 324—99.

Deverall, Charles N., to Niagara Blower Co. Condenser. 3,026,690, 3–27–62, Cl. 62—305.

Deverell, Geoffrey J., to The Plessey Co. Ltd. Automatic over-speed and under-speed trip valves. 3,051,005, 8–28–62, Cl. 73—537.

Devereux, John E.: *See*—
Devereux, Joyce P. and J. E. 3,056,983.

Devereux, Joyce P. and J. E. Nut tapping machine having double tap grip means and nut ejector means. 3,056,983, 10–9–62, Cl. 10—133.

De Verrier, John C.: *See*—
Stewart, Richard C., and de Verrier. 3,025,406.

Devery, James L., to Philco Corp. Control system for automatic washers. 3,067,603, 12–11–62, Cl. 68—12.

De Vienne, Jean P.: *See*—
De Vienne, Robert A. and J. P., and Grenier. 3,027,166.

De Vienne, Robert A. and J. P., and P. Grenier. Sealing attachment for securing electrical cables or the like. 3,027,166, 3–27–62, Cl. 277—112.

De Vilbiss Co., The: *See*—
Peeps, Donald J., and Hoffman. 3,020,026.

Deville, Arthur E., and M. Penson, to The British Oxygen Co. Ltd. Electric arc welding of generally horizontal seams. 3,035,159, 5–15–62, Cl. 219—137.

De Villiers, Joseph E. Automatic balancing machines. 3,010,751, 1–16–62, Cl. 73—468.

De Vincent, Patsy, to General Motors Corp. Refrigerating apparatus. 3,040,546, 6–26–62, Cl. 62—347.

De Vincent, Patsy, to General Motors Corp. Ice block maker. 3,060,700, 10–30–62, Cl. 62—353.

Devine, Arthur J.: *See*—
Trumbull, Donald E., and Devine. 3,053,457.
Trumbull, Donald E., Devine, and Pyles. 3,042,264.
Trumbull, Donald E., Devine, and Pyles. 3,043,477.

Devine, Bernard W., to American Optical Co. Circuit for switching alternating current power sources. 3,061,736, 10–30–62, Cl. 307—64.

Devine, Harold A., and A. L. McLaughlin, to Potash Co. of America. Cutter bit holder. 3,030,088, 4–17–62, Cl. 262—33.

Devine, Joseph A., and W. Tabowsky, to McGraw-Edison Co. Combined cutout and lightning arrester bracket assembly. 3,038,046, 6–5–62, Cl. 200—114.

De Vines, Hollis, to Schlage Lock Co. Door latch and lock mechanism. 3,035,432, 5–22–62, Cl. 70—216.

De Vines, Hollis L.: *See*—
Marotto, Robert A., and De Vines. 3,046,776.

De Vires, Terrence E. to Square D Co. Position control servosystem. 3,035,215, 5–15–62, Cl. 318—28.

Devins, John C.: *See*—
Plump, Ralph E., and Devins. 3,048,648.

De Vita, Alphonse J., to United States of America, Navy. Delay circuit. 3,027,492, 3–27–62, Cl. 315—168.

De Vito, Angelo R.: *See*—
Allen, Edwin L., and de Vito. 3,027,185.

De Vito, Angelo R., to L. W. Menziner, trustee. Door control mechanism. 3,027,184, 3–27–62, Cl. 292—216.

De Vito, Angelo R., to L. W. Menzimer. Door control mechanism. 3,047,325, 7–31–62, Cl. 292—280.

De Vito, Felix, to De Vito Pump Form Co., Inc. Machine for reshaping and shrinking shoe quarters. 3,069,708, 12–25–62, Cl. 12—53.5.

De Vito Pump Form Co., Inc.: *See*—
De Vito, Felix. 3,069,708.

Devitt, Andrew B.: *See*—
Wimmer, Ernest L., and Devitt. 3,022,174.

De Vlieg, Howard R. Ice skate grinding machine. 3,040,481, 6–26–62, Cl. 51—100.

De Vlieg Machine Co.: *See*—
Sweeny, Allen N. 3,044,323.
Sweeny, Allen N., and Jerue. 3,069,932.

Devlin, Paul A.: *See*—
Shokal, Edward C., Devlin, and Winkler. 3,040,010.

Devlin, Paul A., to Shell Oil Co. Process for polymerizing allylic amines and resulting products. 3,057,833, 10–9–62, Cl. 260—82.1.

Devoe & Raynolds Co., Inc.: *See*—
Cline, Oliver L., Jr. 3,069,376.
Greenlee, Sylvan O. 3,021,304.
Hicks, Darrell D. 3,025,258.
Madison, Ralph E. 3,024,711.
Madison, Ralph E. 3,063,851.
Masters, John E. 3,027,340.
Price, Herbert P., and Belanger. 3,033,803.
Price, Herbert P., and Belanger. 3,033,817–21.
Price, Herbert P., and Belanger. 3,035,018.

Devohn Corp.: *See*—
Feldman, Charles. 3,046,154.
Devol, George C., and E. B. Hansell, deceased (by M. B. Hansell, administratrix); M. B. Hansell, assor. to said Devol. Coincidence detectors. 3,016,465, 1–9–62, Cl. 307—88.
Devol, George C. Magnetic storage devices. 3,035,253, 5–15–62, Cl. 340—174.
Devol, Lee, to United States of America, Air Force. Method of making an anisotropic conducting target plate. 3,064,391, 11–20–62, Cl. 49—79.
Devon, Harry J., and C. H. Davis, to Jas. H. Matthews & Co. Type holder strip and type holding accessory therefor. 3,018,728, 1–30–62, Cl. 101—381.
Devonsheer Melba Corp.: *See*—
Weil, Bert. 3,022,903.
Devonshire, William H., to Columbus McKinnon Corp. Conveyor tractor. 3,028,455, 4–3–62, Cl. 191—23.
Devonshire, William H., E. E. Robins, and K. D. Schreyer, to Columbus McKinnon Corp. Trolley conveyor switch mechanisms. 3,064,586, 11–20–62, Cl. 104—104.
De Vore, Henry B., to Radio Corp. of America. Infra-red sensitive television camera system. 3,046,441, 7–24–62, Cl. 315—10.
De Vos, John W., to Kimberly-Clark Corp. Manufacture of cellulosic products. 3,047,452, 7–31–62, Cl. 162—5.
De Vries, Arthur D., and M. E. Wall, to Esso Research and Engineering Co. Process for removing polymer from cuprous ammonia acetate solutions. 3,040,111, 6–19–62, Cl. 260—681.5.
De Vries, Eduard R., to Prismo Safety Corp. Highway marking composition. 3,046,851, 7–31–62, Cl. 95—1.5.
De Vries, Gerrit, to North American Philips Co., Inc. Non-reciprocal electric coupling device. 3,038,133, 6–5–62, Cl. 333—24.
De Vries, Harmen, J. P. Schuhmacher, and J. C. Soeterbroek, to Stamicarbon N.V. Preparation of high molecular weight isotactic polymers from alpha-olefinic hydrocarbons. 3,068,246, 12–11–62, Cl. 260—93.7.
De Vries, Joseph, to Tendor Corp. Wire twisting apparatus. 3,065,773, 11–27–62, Cl. 140—119.
De Vries, Lazarus. Anti-blinding device. 3,039,110, 6–19–62, Cl. 2—14.
De Vries, Louis, to California Research Corp. Catalytic polymerization with ylid catalysts. 3,065,215, 11–20–62, Cl. 260—93.5.
De Vries, Louis, and J. R. Thomas, to California Research Corp. Catalytic polymerization of alkyl esters of acrylic and methacrylic acids in heterogeneous mixture. 3,061,599, 10–30–62, Cl. 260—89.5.
De Vries, Machiel. Piezo-electric pick up. 3,022,384, 2–20–62, Cl. 179—100.41.
De Vries, Machiel. Apparatus for transmitting mechanical vibrations. 3,028,162, 4–3–62, Cl. 274—37.
De Vries, Pieter, and F. H. J. Fluitman, to Monroe Calculating Machine Co. Carriage shift mechanism. 3,065,906, 11–27–62, Cl. 235—63.
De Vries, Rudi: *See*—
Vos, Johan M., and De Vries. 3,059,007.
De Vries, Siepren, to Hermes Landbouwmachinefabriek & de Vries N.V. Device for use in filling a container with fruit. 3,021,656, 2–20–62, Cl. 53—248.
De Vry Technical Institute, Inc.: *See*—
Thompson, Orville I. 3,043,021.
Dew, John N., and W. L. Martin, to Continental Oil Co. Counterflow in situ combustion process. 3,054,448, 9–18–62, Cl. 166—11.
Dew, Joseph H., to General Motors Corp. Shipping rack. 3,022,896, 2–27–62, Cl. 211—13.
Dew, Joseph K., to North American Aviation, Inc. Control pressure amplifier and system. 3,065,599, 11–27–62, Cl. 60—39.28.
Dew, Joseph K., to North American Aviation, Inc. Method and control system for sensing temperatured differentials of flowing gases. 3,067,577, 12–11–62, Cl. 60—35.6.
Dew, Joseph K., to North American Aviation, Inc. Super drag flap. 3,067,971, 12–11–62, Cl. 244—113.
Dew, Robert L., W. W. Kuklinski, and J. Zabouski, to Stewart-Warner Corp. Copyloader for a facsimile transmitter. 3,025,053, 3–13–62, Cl. 271—33.
De Waard, Pieter: *See*—
Van Jaarsvelt, William A. J., and De Waard. 3,030,576.
De Waard, Pieter, and W. A. J. van Jaarsvelt, to Nederlandse Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek Ten Behoeve van Nijverheid. Circuit for the demodulation of frequency modulated signals. 3,063,019, 11–6–62, Cl. 329—129.
De Waard, Russell D.: *See*—
Barnes, Robert B., and De Waard. 3,057,693.
Rudomanski, Andrew C., and De Waard. 3,058,346.
De Wald, Horace A., and M. L. Hoefle, to Parke, Davis & Co. 4-halo-3-sulfamoylbenzoic acid derivatives and methods for producing same. 3,043,874, 7–10–62, Cl. 260—556.
Dewald, Jacob F., and J. J. Lander, to Bell Telephone Laboratories, Inc. Signal translating device. 3,017,548, 1–16–62, Cl. 317—231.
De Walt, Inc.: *See*—
Kaley, Robert C. 3,068,919.
Mowery, Jesse R., Jr., and Zimmerman. 3,038,109.
Nuss, Oscar H. 3,022,694.
Dewan, John T., and O. L. Stone, to Schlumberger Well Surveying Corp. Radioactive borehole logging apparatus. 3,065,346, 11–20–62, Cl. 250—83.3.
Dewar, Douglas, to Dunlop Rubber Co. Ltd. Repair of thermoplastic materials. 3,044,920, 7–17–62, Cl. 156—97.
Dewas, Raymond. Selvage forming apparatus. 3,058,496, 10–16–62, Cl. 139—124.
De Wees, John C., Jr.: *See*—
Maag, Glenn A. 3,039,199.
Dewenter, Henry A. Mixer. 3,064,949, 11–20–62, Cl. 259—108.
Dewese, Henry. Method of making a storage tank construction. 3,018,546, 1–30–62, Cl. 29—431.
Dewey, Bradley, to American Can Co. Method of and apparatus for treating surfaces of extruded thermoplastic tubing with corona discharge. 3,017,339, 1–16–62, Cl. 204—165.
Dewey, John L.: *See*—
West, Theo J., and Dewey. 3,042,641.
Dewey, Paul R., and A. Norwich, to Industrial Nucleonics Corp. Production analyzer. 3,029,417, 4–10–62, Cl. 340—178.
Dewhirst, Robert D., and J. F. McKenna, to Wickes Boiler Co. Hot water boilers. 3,062,195, 11–6–62, Cl. 122—406.
De Wilde, Paul R., to Societe Suisse des Explosifs. Plastic explosive and method of making it. 3,049,453, 8–14–62, Cl. 149—20.
Dewing, Kenneth L. Bobby pin. 3,058,477, 10–16–62, Cl. 132—50.
De Witt, Earl G.: *See*—
Brown, Jerome E., De Witt, and Shapiro. 3,041,155.
Brown, Jerome E., De Witt, and Shapiro. 3,060,212.
De Free, David O., and De Witt. 3,051,748.
Shapiro, Hymin, De Witt, and Brown. 3,030,398.
De Witt, Edward J., to Wallace Supplies Mfg. Co. Cut-off machine work clamp. 3,057,240, 10–9–62, Cl. 83—412.
De Witt, Edward J., to Wallace Supplies Mfg. Co. Branched pipe coupling. 3,062,567, 11–6–62, Cl. 285—189.
De Witt, Hobson D.: *See*—
Beindorff, Arthur B., and De Witt. 3,039,983.
Beindorff, Arthur B., and De Witt. 3,039,984.
Beindorff, Arthur B., and De Witt. 3,039,985.
Beindorff, Arthur B., and De Witt. 3,042,645.
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Beindorff, Arthur B., and De Witt. 3,063,956.
De Witt, Hobson D., to The Chemstrand Corp. Linear polyester-polyamides. 3,025,270, 3–13–62, Cl. 260—78.
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De Witt, James T., to Ex-Cell-O Corp. Instrument for determining angles. 3,061,935, 11–6–62, Cl. 33—174.
De Witt, William C., to Square D Co. Lifting tool. 3,027,630, 4–3–62, Cl. 29—240.
De Witte, Leendert, to Continental Oil Co. Method of well logging. 3,037,115, 5–29–62, Cl. 250—43.5.
Dewitz, Gerhard H., to C.G.S. Laboratories, Inc. Sonar apparatus and components. 3,037,185, 5–29–62, Cl. 340—3.
Dewitz, Gerhard H., to Trak Electronics Co., Inc. Electrically variable delay line. 3,046,500, 7–24–62, Cl. 333—29.
De Woody, Charles M., to Ace Glass Inc. Resistance heated stopcock. 3,050,608, 8–21–62, Cl. 219—19.
De Woskin, Irvin S., to Beltx Corp. Packaging. 3,030,752, 4–24–62, Cl. 53—266.
De Woskin, Irvin S., to Beltx Corp. Sanitary garment. 3,048,176, 8–7–62, Cl. 128—288.
Dewrance & Co. Ltd.: *See*—
Wierzbicki, Alexander, and Haftke. 3,036,812.
Wilson, Frederick J., and Gilliard. 3,055,219.
Wilson, Frederick J., and Gilliard. 3,066,538.
Dewyer, Peter J., to York Tape Printers, Inc. Label stamping machine. 3,060,850, 10–30–62, Cl. 101—288.
Dexheimer, Hans, O. Fuchs, and W. Schmieder, to Hercules Powder Co. Inc. Stabilization of polyolefins. 3,058,952, 10–16–62. Cl. 260—45.8.
Dexion Ltd.: *See*—
Comino, Demetrius. 3,025,933.
Dexter Axle Co., Inc.: *See*—
Krotz, Alvin S. 3,065,830.
Dexter Industries Inc.: *See*—
Williams, Murray E. 3,020,073.
Williams, Murray E. 3,025,096.
Dexter, Martin: *See*—
Rubin, Martin, and Dexter. 3,062,719.
Dexter, Richard D., to United Shoe Machinery Corp. Methods for wire terminal forming. 3,038,245, 6–12–62, Cl 29—155.55.
Dexter, Richard D., to United Shoe Machinery Corp. Eyeleting machines. 3,039,511, 6–19–62, Cl. 153—1.
Dexter, Robert G.: *See*—
Eichorn, Robert N., and Dexter. 3,041,804.
Dexter, Theodore H., to Olin Mathieson Chemical Corp. Production of sodium perchlorate. 3,038,782, 6–12–62, Cl. 23—85.

Dexter, Warren E. : *See*—
Rodth, Joseph J., Price, and Dexter. 3,045,869.
Dey, George E., Sr., to G.D.M. Co. Key locked door latch mechanism. 3,016,730, 1–16–62, Cl. 70—150.
Dey, George E., Sr., to G.D.M. Co. Sprinkler head for emitting square pattern spray. 3,029,030, 4–10–62, Cl. 239—520.
Deyber, Louis, to Societe Alsacienne de Constructions Mecaniques. Apparatus for the fluid treatment of textile webs of varying widths. 3,066,517, 12–4–62, Cl. 68—5.
Deye, John F. Aeroplane and boat mooring cabinet. 3,054,583, 9–18–62, Cl. 244—115.
Deylius, Hendrik G., to North American Phillips Co., Inc. Multiple recorder color ribbon mounting. 3,070,799, 12–25–62, Cl. 346—46.
De Young, John, to General Precision Inc. Angle counter with anti-friction bearings. 3,056,549, 10–2–62, Cl. 235—117.
Deyrup, Alden J., to E. I. du Pont de Nemours and Co. Process of preparing calcium aluminide. 3,052,521, 9–4–62, Cl. 23—204.
Deyrup, Alden J., to E. I. du Pont de Nemours and Co. Chromium plating. 3,069,333, 12–18–62, Cl. 204—51.
De Zeeuw, Henry E. Fishing jig. 3,037,316, 6–5–62, Cl. 43—42.28.
Deziel, Fred T., to Minneapolis-Honeywell Regulator Co. Control apparatus. 3,023,803, 3–6–62, Cl. 158—124.
De Zordo, Battista. Automatic machine for lapping of marble slabs and other similar stones. 3,026,653, 3–27–62, Cl. 51—56.
Dezzani, John. Feeder for filamentous material. 3,070,057, 12–25–62, Cl. 113—111.
D'Haem, Marcel P., and H. R. Fischer, to Chicago Pneumatic Tool Co. Pneumatic stapler and magazine therefor. 3,041,614, 7–3–62, Cl. 1—44.4.
Dhanes, Lester W., to The Rand Corp. Method and apparatus for vervnier map matching and flight control therewith. 3,041,011, 6–26–62, Cl. 244—14.
Dhimos, James A., to Sylvania Electric Products Inc. Approach light monitor. 3,067,411, 12–4–62, Cl. 340—251.
Dhuicq, Andre P., to Deere & Co. Sequential clutch and differential control. 3,050,163, 8–21–62, Cl. 192—3.5.
Diack, Archibald W. Universal cooker. 3,049,071, 8–14–62, Cl. 99—340.
Dial, William R., to Pittsburgh Plate Glass Co. Stabilization of liquid halogenated aliphatic hydrocarbons. 3,025,331, 3–13–62, Cl. 260—652.5.
Dialer, Kurt : *See*—
Riemenschneider, Wilhelm, Hornig, Weber, and Dialer. 3,057,915.
Diambra, Henry M., and H. E. Blum, to Entron, Inc. Remote intelligence sampling means. 3,048,780, 8–7–62, Cl. 325—31.
Diamond, Albert, to Beckman Instruments, Inc. Servo motor with adjustable velocity damp. 3,042,820, 7–3–62, Cl. 310—93.
Diamond Alkali Co. : *See*—
Abrams, Irving M., Benezra, and Goold. 3,028,361.
Adams, Bobby E., and Wotiz. 3,052,734.
Banner, Robert G., and Pierce. 3,039,841.
Bimber, Russell M. 3,028,421.
Bluestone, Henry. 3,020,143.
Bluestone, Henry. 3,021,370.
Bluestone, Henry. 3,066,153.
Bluestone, Henry, Schuldt, Wotiz, Entemann, and Huba. 3,037,058.
Burkholder, Ward J. 3,049,521.
Burkholder, Ward J., and Henderson. 3,054,786.
Butler, Clarence A., Jr., and Silsby. 3,017,338.
Campbell, Ivor E., and Oxley. 3,043,679.
Cayton, Van C., Montgomery, and Perret. 3,061,652.
Chetakian, Edward. 3,027,338.
Dasch, Lawrence, and Cutter. 3,066,104.
Eden, Jamal S. 3,025,214.
Eisenmann, John L. 3,028,417.
Entemann, Charles E. 3,017,440.
Everson, Howard E., and Ilenda. 3,015,589.
Foster, James L., Laymon, and Myers. 3,027,291.
Galloway, Arthur L. 3,056,723.
Harbin, Adie D., Jr., and Munns. 3,051,631.
Hirsch, Alfred, and Sleczak. 3,040,044.
Hlynsky, Alex. 3,035,103.
Judice, Richard H., and Wiesner. 3,051,637.
Kearney, James J. 3,026,308.
Lindemann, Robert F. 3,032,596.
Lindemann, Robert F., and Horvath. 3,029,290.
McCain, George H. 3,051,765.
McRae, Wayne A., and Eisenmann. 3,024,275.
Perrin, Tom S., and Banner. 3,065,055.
Pyne, William J. 3,052,601.
Richards, Roger G., and Osgood. 3,015,653.
Rosen, Irving. 3,033,745.
Rosen, Irving. 3,044,865.
Rosen, Irving, and Seeger. 3,068,294.
Rosen, Irving, and Slezak. 3,019,075.
Rynkiewicz, Henry J., Schwarz, and Skeist. 3,063,787.
Slezak, Frank B., and Bimber. 3,066,149.
Slezak, Frank B., and McElravy. 3,035,055.
Slezak, Frank B., and Rosen. 3,019,160.
Wotiz, John H. 3,027,297.
Zinn, Eli, Entemann, Perkins, and Wheeler. 3,052,712.
Diamond, C., Co., Inc. : *See*—
Glück, Kurt. 3,067,838.
Diamond Crystal Salt Co. : *See*—
Anderson, Vincent R. 3,063,602.
Keyes, Henry I. 3,065,775.
Saffanoff, Albert, Barr, and Brandt. 3,061,152.
Diamond, Fred L., to United States of America, Air Force. Interference blanking of moving target indicator coherent video. 3,064,251, 11–13–62, Cl. 343—7.7.
Diamond, Harry. Methods of making structural beams. 3,050,831, 8–28–62, Cl. 29—155.
Diamond, Herbert B., to Sperry Rand Corp. Centrifugally restrained accelerometer. 3,028,760, 4–10–62, Cl. 73—516.
Diamond, Hyman : *See*—
Calhoun, George M., and Diamond. 3,041,279.
Diamond, Jack. Hydrofoil deck extension. 3,019,755, 2–6–62, Cl. 114—66.5.
Diamond Laboratories : *See*—
Ratcliff, Karl A., Dorrance, and Towey. 3,062,711.
Ratcliff, Karl A., Dorrance, and Towey. 3,066,073.
Taggart, Everett R., and Palmer. 3,025,953.
Towey, John P., Van Wyke, Ratcliff, and Dorrance. 3,027,229.
Diamond, Lawrence H., to Accurate Specialties, Inc. Method of producing metal spheres. 3,019,485, 2–6–62, Cl. 18—48.
Diamond, Lew H., and R. A. Couturier, to Otis Elevator Co. Control mechanism for doors. 3,018,851, 1–30–62, Cl. 187—48.
Diamond, Louis. Trouser leg protectors. 3,052,044, 9–4–62, Cl. 36—2.
Diamond, Milton J., N. W. Schubring, and E. F. Weller, Jr., to General Motors Corp. Electronic flaw detector. 3,029,943, 4–17–62, Cl. 209—111.5.
Diamond National Corp. : *See*—
Anness, Russell W., and Huelsbeck. 3,027,815.
Chaplin, Charles J. 3,016,090.
Chaplin, Charles J. 3,016,132.
Chaplin, Charles J. 3,016,177.
Chaplin, Charles J. 3,056,232.
Chaplin, Merle P. 3,021,080.
Chaplin, Merle P. 3,028,228.
Chaplin, Merle P. 3,035,964.
Chaplin, Merle P. 3,043,742.
Cox, John W. 3,034,693.
Daniele, Donald T. 3,015,941.
Daniele, Donald T. 3,016,091.
Foote, James E. 3,040,949.
Harms, Robert L. 3,059,826.
Kennedy, Thomas B. 3,016,131.
Kramer, Robert G. 3,059,830.
Manna, Silvano A. 3,034,636.
Matteson, Russell E. 3,016,164.
Reifers, Richard F. 3,027,997.
Reifers, Richard F. 3,028,065.
Reifers, Richard F. 3,034,212.
Reifers, Richard F. 3,056,523.
Reifers, Richard F. 3,067,921.
Reifers, Richard F., and Crane. 3,016,176.
Reifers, Richard F., and Wolf. 3,056,494.
Ringler, William A. 3,030,002.
Robins, Seymour. 3,047,140.
Rodish, John 3,017,730.
Spinks, Charles W. 3,061,068.
Spinks, Charles W., and Hunter. 3,070,215.
Stickney, Wendell H. 3,047,458.
Stickney, Wendell H., and Reifers. 3,067,470.
Strakosch, Clarence P., Jr., Smith, and Wolter. 3,029,570.
Strakosch, Clarence P., Jr., Smith, and Wolter. 3,029,781.
Struble, Glenn E. 3,016,180.
Struble, Glenn E. 3,041,643.
Struble, Glenn E. 3,058,578.
Struble, Glenn E., and King. 3,053,411.
Swanson, Vernon E. 3,016,179.
Swanson, Vernon E. 3,034,696.
Wells, Roger. 3,040,948.
Wells, Roger, and Reifers. 3,040,947.
Wolter, Harry A., and Vaughan. 3,015,924.
Diamond Power Specialty Corp. : *See*—
De Mart, Le Roy S. 3,039,741.
Diamond, William J., H. Levin, and D. C. Wood, to Whirlpool Corp. Method of softening water and washing articles. 3,023,132, 2–27–62, Cl. 134—10.
Di Angelus, Anthony : *See*—
Costantini, Anthony R., and Di Angelus. 3,019,620.
Costantini, Anthony R., and Di Angelus. 3,059,446.
Diani, Arthur C. : *See*—
Unger, Arnold, and Diani. 3,055,617.
Diapulse Mfg. Corp. of America : *See*—
Grossman, Irving. 3,050,065.
Milinowski, Arthur S. 3,043,310.
Dias, Gil M. : *See*—
De Marco, Carlo G., and Dias. 3,034,925.
De Marco, Carlo G., and Dias. 3,042,642.
Diassi, Patrick A. : *See*—
Fried, Josef, and Diassi. 3,035,048.
Fried, Josef, and Diassi. 3,054,790.
Laskin, Allen I., Fried, and Diassi. 3,063,992.
Diassi, Patrick A., to Olin Mathieson Chemical Corp. β-yohimbine and β-yohimbic acid 17-esters. 3,022,310, 2–20–62, Cl. 260—287.

Diassi, Patrick A., to Olin Mathieson Chemical Corp. Preparation of 16α,17α-dihydroxy-progesterane. 3,027,384, 3–27–62, Cl. 260—397.4.

Diassi, Patrick A., to Olin Mathieson Chemical Corp. 12-alkoxy-11-oxygenated pregnanes. 3,030,391, 4–17–62, Cl. 260—397.45.

Diassi, Patrick A., A. I. Laskin, and P. A. Principe, to Olin Mathieson Chemical Corp. 12α halo-Δ⁴-pregnene-11β,16α, 21-triols and process for production thereof. 3,060,176, 10–23–62, Cl. 260—239.55.

Diaz, Rafael: *See*—
Winter, William E., and Diaz. 3,069,239.

Di Battista, Charles. Plastic compositions prepared from alkyd resins and rubber latices and method of preparing and using same. 3,041,297, 6–26–62, Cl. 260—5.

Di Bella, Angelo: *See*—
Perier, Frank R., and Di Bella. 3,021,494.

Di Bella, Eugene P., to Heyden Newport Chemical Corp. Prodution of trichlorobenzoic acid. 3,037,054, 5–29–62, Cl. 260—524.

Dibert, Americus E. Mobile barbecue. 3,060,920, 10–30–62, Cl. 126—276.

Dibner, David, to Burndy Corp. Die assembly for crimping a shielded cable. 3,055,412, 9–25–62, Cl. 153—1.

Di Bona, Salvatore S.: *See*—
Stegmeier, William J., and Di Bona. 3,068,981.

Di Buono, Theodore J. Sand trap golfing game. 3,025,059, 3–13–62, Cl. 273—32.

Dice, John R.: *See*—
Moore, James A., Westland, Nicolaides, and Dice. 3,030,-388.

Dice, Sylvan V.: *See*—
Neal, James L. and M. P., and Dice. 3,063,209.

Dice, William M., Jr.: *See*—
Schriner, John E., and Dice. 3,037,150.

Diced Cream of America Co.: *See*—
Luterick, Marcellus C. 3,058,645.

Dichter, Jakob. Automatic machine for working the ends of long glass tubes. 3,066,506, 12–4–62, Cl. 65—243.

Dichter, Jakob. Glass tube feeding machine. 3,069,047, 12–18–62, Cl. 221—9.

Di Cillo, Betty J. Ironing board. 3,021,628, 2–20–62, Cl. 38—111.

Dick, A. B., Co.: *See*—
Anderson, Bror E. 3,067,673.
Du Bois, Edgar H., Mazzio, and Birr. 3,055,222.
Evans, William E., and Jones. 3,017,625.
Kabell, Louis J. 3,056,891.
Murphy, Howard E. 3,031,583.

Dick, Clarence R., and H. Pledger, Jr., to The Dow Chemical Co. Preparation of cyclopentadiene from dicyclopentadiene. 3,016,410, 1–9–62, Cl. 260—666.

Dick, Dale O. Resuscitator. 3,070,089, 12–25–62, Cl. 128—29.

Dick, Herbert K., A. E. Kulberg, and S. E. Swasey, to Sylvania Electric Products Inc. Filament transfer device. 3,036,719, 5–29–62, Cl. 214—1.

Dick, James B. Automobile idler arm assembly for front end stabilizing. 3,038,738, 6–12–62, Cl. 280—95.

Dick, Louis A., and L. G. Martyn, to The James Knights Co. Piezoelectric device. 3,069,572, 12–18–62, Cl. 310—8.2.

Dick, Wade W., ½ to C. L. Morris. Method and apparatus for eliminating vapor lock in internal combustion engines. 3,065,702, 11–27–62, Cl. 103—42.

Dick, Willard K.: *See*—
Moore, Charles B., Amundson, and Dick. 3,064,902.

Dick, Willard K., to The New York Air Brake Co. Gas-charged accumulator-reservoir unit. 3,047,023, 7–31–62, Cl. 138—31.

Dickason, Ronald K. Plastometer. 3,033,021, 5–8–62, Cl. 73—15.6.

Dicke, Oscar H. Clock setting and regulating means. 3,039,-261, 6–19–62, Cl. 58—24.

Dicke, Oscar H. Timepiece regulating mechanism. 3,039,262, 6–19–62, Cl. 58—109.

Dicke, Robert H. Clothes dryers. 3,036,384, 5–29–62, Cl. 34—76.

Dicke, Robert H. Gravity meter. 3,036,465, 5–29–62, Cl. 73—382.

Dickel, Daniel F.: *See*—
Lucas, Robert A., and Dickel. 3,036,060.

Dickens, Jerry C., 25% to D. J. Horn and 25% to A. F. Barker. Ceiling board lifter. 3,028,978, 4–10–62, Cl. 214—1.

Dicker, George L., to General Motors Corp. Radiators. 3,062,506, 11–6–62, Cl. 257—125.

Dickerhoof, Delmas J.: *See*—
Foster, John P., Dickerhoof and Fercana. 3,062,548.

Dickerson, Edward F. Printing press. 3,067,676, 12–11–62, Cl. 101—250.

Dickerson, Jack A., to International Business Machines Corp. Magnetic drum head positioning system. 3,023,404, 2–27–62, Cl. 340—174.1.

Dickerson, Philip W. Boat. 3,068,830, 12–18–62, Cl. 115—1.

Dickerson, Robert L.: *See*—
Kauppila, George R. 3,017,926.

Dickey, Charles R., E. A. Malley, and V. E. Matthews, to Union Carbide Corp. Process for producing 1,1'-bis(trialkylsilylcyclopentadienyl) irons. 3,062,854, 11–6–62, Cl. 260—439.

Dickey, Frank R., Jr., to General Electric Co. Electrical signal indicator. 3,020,541, 2–6–62, Cl. 343—11.

Dickey, Frank R., Jr., to United States of America, Army. Monopulse radar with linear error voltage. 3,064,254, 11–13–62, Cl. 343—113.

Dickey, James W., Jr.: *See*—
Malone, Carl E., and Dickey. 3,022,071.

Dickey, James W., Jr., and C. E. Malone. Gastric suction control device. 3,039,463, 6–19–62, Cl. 128—276.

Dickey, John W., to Reeves Brothers, Inc. Method and apparatus for forming laminated structure of adhered materials. 3,057,766, 10–9–62, Cl. 156—82.

Dickey, Myron L., to Purex Corp. Ltd. Packaged dry bleach and disinfecting compositions. 3,061,549, 10–30–62, Cl. 252—95.

Dickey, Paul J., to United States of America, Navy. Flare candle. 3,048,085, 8–7–62, Cl. 89—1.

Dickey, Paul S., to Bailey Meter Co. Vapor generating and superheating systems. 3,040,719, 6–26–62, Cl. 122—479.

Dickey, Roger L. Holder for handling stone and the like. 3,060,917, 10–30–62, Cl. 125—35.

Dickey, W. S., Clay Mfg. Co.: *See*—
Ligon, Elmer R. 3,054,627.

Dickholtz, Arthur. Automatic fuel shut-off system. 3,028,-849, 4–10–62, Cl. 123—179.

Dickieson, Robert C., to Bell Telephone Laboratories, Inc. Torpedo steering system. 3,020,868, 2–13–62, Cl. 114—23.

Dickinson, Arthur H., to International Business Machines Corp. Electronic multipliers. 3,015,442, 1–2–62, Cl. 235—160.

Dickinson, Arthur H., to International Business Machines Corp. Situation determining device. 3,023,399, 2–27–62, Cl. 340—149.

Dickinson, Arthur H., to International Business Machines Corp. Record bearing instrumentalities. 3,037,695, 6–5–62, Cl. 235—61.12.

Dickinson, Becton, and Co.: *See*—
King, Albert E. 3,036,700.

Dickinson, Clarence R., and J. E. Slagg, to Allen-Bradley Co. Rectilinear variable resistor. 3,050,704, 8–21–62, Cl. 338—180.

Dickinson, Clifford L., Jr., to E. I. du Pont de Nemours and Co. Photographic developer and process. 3,047,389, 7–31–62, Cl. 96—66.

Dickinson, Fairleigh S., Jr., to Becton, Dickinson and Co. Venoclysis assembly. 3,017,883, 1–23–62, Cl. 128—214.

Dickinson, George E. J., to Airmed Ltd. Respiratory masks. 3,053,402, 9–11–62, Cl. 128—141.

Dickinson, Henry M. N., to Abbott Laboratories. Stable aqueous isoproterenol compositions. 3,039,928, 6–19–62, Cl. 167—65.

Dickinson, Morris M.: *See*—
Jones, Charles H., Jr. 3,027,054.

Dickinson, Philemon R.: *See*—
Lewis, John R., and Dickinson. 3,024,469.

Dickinson, Robert C., and P. Olsson, to Westinghouse Electric Corp. Metal-clad switchgear. 3,054,874, 9–18–62, Cl. 200—114.

Dickinson, Robert W.: *See*—
Hayes, Walter C., and Dickinson. 3,044,872.

Dickinson, Ronald S., to Armstrong Patents Co. Ltd. Load compensating arrangement for a vehicle suspension. 3,021,-153, 2–13–62, Cl. 280—124.

Dickinson, Ronald S., to Armstrong Patents Co. Ltd. Hydraulic control units for vehicle suspensions. 3,058,739, 10–16–62. Cl. 267—15.

Dickinson, Ronald S., and M. Bartram, to Armstrong Patents Co. Ltd. Hydraulic system for controlling the position of a hydraulically displaceable member. 3,054,260, 9–18–62, Cl. 60—51.

Dickinson, Thorn W., to The Fafnir Bearing Co. Bearing seal. 3,021,148, 2–13–62, Cl. 277—58.

Dickinson, Travis R., to Phillips Petroleum Co. Self-lubricating compressible slide gate. 3,035,809, 5–22–62, Cl. 251—192.

Dickinson, Wesley E., to International Business Machines Corp. System for comparing information items to determine similarity therebetween. 3,022,005, 2–20–62, Cl. 235—152.

Dickinson, William O.: *See*—
Costello, George T., Dickinson, Dreher, and Nicklas. 3,049,173.

Dickmann, John L.: *See*—
Bloom, Dolores F., and Dickmann. 3,038,539.

Dickow, Frederick P., to The Eastern Co. Raft gusset. Ethenoid carbonyl compounds. 3,042,710, 7–3–62, Cl. 260—482.

Dickow, Frederick P., to The Eastern Co. Expansion shell assembly for joining concrete slabs. 3,054,320, 9–18–62, Cl. 85—2.8.

Dicks, Walter: *See*—
Billen, Peter, Dicks, and Legros. 3,054,283.

Dickson, Donald C., Jr., to Motorola, Inc. Semiconductor device. 3,017,550, 1–16–62, Cl. 317—234.

Dickson, Donald E.: *See*—
Schock, Richard U., Jr., Hasbrouck, and Dickson. 3,020,-283.

Dickson, Donald E., and W. R. Sherman, to Abbott Laboratories. Hydrozinonitrofurylthiazoles. 3,055,910, 9–25–62, Cl. 260—306.8.

Dickson, Donald L. and R. F. Rotary cleaning device. 3,067,444, 12–11–62, Cl. 15—97.

Dickson, Edgar V., and T. E. Weber, to Hussmann Refrigerator Co. Low temperature refrigerated case. 3,063,253, 11–13–62, Cl. 62—256.
Dickson, Edgar V., and T. E. Weber, to Hussmann Refrigerator Co. Food merchandiser. 3,063,254, 11–13–62, Cl. 62—256.
Dickson, John A., and A. I. Chalfant, to United Aircraft Corp. Dynamic seal for varying operating conditions. 3,024,734, 3–13–62, Cl. 103—103.
Dickson, John B., to Signal-Stat Corp. Shock cushioned vehicle indicator lamps. 3,059,104, 10–16–62, Cl. 240—8.3.
Dickson, Robert H., and W. M. Willitts, to Western Electric Co., Inc. Drag line conveyor system. 3,059,587, 10–23–62, Cl. 104—88.
Dickson, Rufus F.: *See*—
Dickson, Donald L. and R. F. 3,067,444.
Dickson, William M., Jr., and M. N. Miller, to Fairchild Engine & Airplane Corp. High speed pneumatic actuator. 3,023,739, 3–6–62, Cl. 121—38.
Dickstein, Jack, and R.-M. Hoegerle, to The Borden Co. 3,031,694, 5–1–62, Cl. 9—11.
Dictaphone Corp.: *See*—
Curtis, Roger C., and Roberts. 3,047,785.
Roberts, Frederick W. 3,029,656.
Roberts, Frederick W., Jones, Di Mattia, and Curtis. 3,051,795.
Roberts, Frederick W., and Montgomery. 3,064,917.
Roberts, Frederick W., Montgomery, and Schueler. 3,024,319.
Roberts, Frederick W., Montgomery, and Tiffany. 3,052,762.
Roper, Charles G. 3,029,657.
Schueler, Frederick W., Simeone, Delin, and Oxland. 3,056,606.
Sontheimer, Carl G. 3,045,069.
Didde, Carl W., and D. A. Glaser. Paper gathering and trusting apparatus. 3,019,013, 1–30–62, Cl. 270—58.
Didde, Carl W., and D. A. Glaser. Apparatus for applying adhesive to sheet material. 3,034,476, 5–15–62, Cl. 118—3.
Didde-Glaser, Inc.: *See*—
Glaser, Donald A., and Warren. 3,061,303.
Diddens, Paul A., to Performance Measurements Co. Load measuring system. 3,022,663, 2–27–62, Cl. 73—141.
Didier Werke A.G.: *See*—
Heuer, Arthur. 3,033,544.
Huppmeier, Wilhelm. 3,016,234.
Dido Lures, Inc.: *See*—
Woodley, James M. 3,046,689.
Woodley, James M. 3,046,690.
Di Donato, Florenzo. Tire chain attaching device. 3,053,303, 9–11–62, Cl. 152—241.
Didtel, Stuart R., to Cascade Mfg. Co. Bushing construction for pivoted shaft carriage. 3,029,962, 4–17–62, Cl. 214—730.
Diebold, Albert A., to Meridan Corp. Piano case. 3,018,681, 1–30–62, Cl. 84—177.
Diebold, Alfred J., to The Anderson Co. Motion-transmitting device. 3,019,070, 1–30–62, Cl. 312—223.
Diebold, Edward J., to International Rectifier Corp. High-power semi-conductor rectifier. 3,056,037, 9–25–62, Cl. 307—58.
Diebold, Inc.: *See*—
Deaton, Charles U. 3,029,753.
Graber, Carl D. 3,059,839.
Graber, Carl D., Kenny, and Grosswiller. 3,059,840.
Graber, Carl D., and Sturgis. 3,063,769.
Herlong, Robert P. 3,045,466.
Herlong, Robert P. 3,045,467.
Paulos, Harry. 3,070,046.
Roberts, Charles K. 3,061,829.
Sampson, Rodney T. 3,047,312.
Diebold, Joe B., to Jet Research Center, Inc. Apparatus for perforating wells. 3,063,372, 11–13–62, Cl. 102—21.8.
Diebold, Karl: *See*—
Bianca, Edorado G., and Diebold. 3,034,209.
Die Casters Ltd.: *See*—
Sandie, Robert D. R. 3,038,667.
Die Casting Machine Tools Ltd.: *See*—
Mills, Aubrey R. 3,049,828.
Mills, Aubrey R., and Mace. 3,029,483.
Dieckman, Robert W.: *See*—
Sayre, Paul L., Dieckman, and Kleinman. 3,039,627.
Dieckmann, Herbert E. Fowl call. 3,066,444, 12–4–62, Cl. 46—180.
Dieckmann, James R.: *See*—
Waters, Herbert H., and Dieckmann. 3,039,839.
Dieckmann, Wilbur W. F.: *See*—
Hillenbrand, Daniel A., and Dieckmann. 3,019,920.
Diederich, Robert F., C. N. McCarthy, and G. Snaga, to General Motors Corp. Differential. 3,030,825, 4–24–62, Cl. 74—713.
Diedrich, George P. Self-service bank deposit receiver. 3,016,848, 1–16–62, Cl. 109—23.
Diefendort, Russell J., to General Electric Co. Temperature sensitive device. 3,038,337, 6–12–62, Cl. 73—363.
Diehl, John M., to Griffolyn Co., Inc. Method of making an end for an air supported structure. 3,023,758, 3–6–62, Cl. 135—1.
Diehl, John M., to Tru-Scale, Inc. Non-woven fabric machine and method. 3,041,230, 6–26–62, Cl. 156—172.
Diehl, John M., and L. L. Yaeger, to Tru-Scale, Inc. Method of making laminates using unsaturated polyesters. 3,046,180, 7–24–62, Cl. 156—246.
Diehl, John W., to Carrier Corp. High voltage lead termination. 3,032,601, 5–1–62, Cl. 174—19.
Diehl KG: *See*—
Backhaus, Karl E. 3,020,095.
Diehl, Ludwig, and J. H. Fuchs, to Carl Schneider Firma. Device for storing film and sound record tapes. 3,051,537, 8–28–62, Cl. 312—20.
Diehl Mfg. Co.: *See*—
Happe, Reynold. 3,021,723.
Happe, Reynold, and Daman. 3,034,275.
Lubas, Joseph P. 3,029,568.
Diehl, Plummer L. Child's night light. 3,038,060, 6–5–62, Cl. 240—2.
Diehl, Thomas W., T. M. Harkreader, and S. A. Chalmers, Radiant heater. 3,052,790, 9–4–62, Cl. 219—34.
Diehl, Walter A. Razor with shiftable handle means thereon. 3,045,342, 7–24–62, Cl. 30—32.
Diehl, William C. Plug valve having wedge camming means. 3,065,952, 11–27–62, Cl. 251—192.
Diehl, William C. Muffler with spiral partition. 3,066,755, 12–4–62, Cl. 181—66.
Dieke, Sally H.: *See*—
Craig, Harry L., Alderks, Corwin, Dieke, and Karel. 3,060,165.
Diekermann, Friedrich-Wilhelm, deceased, by M. Diekermann and E. Brandner, heirs and guardian of minor heir, to Patentgesellschaft Plate & Co. Slidable fastener. 3,063,-119, 11–13–62, Cl. 24—205.1.
Diekermann, Margarete: *See*—
Diekermann, Friedrich-Wilhelm. 3,063,119.
Diekhoff, Earl F.: *See*—
Brastad, William A., Diekhoff, and Rustad. 3,021,953.
Dielman, Harold J., to The Sanymetal Products Co. Stile mounting assemblies. 3,053,354, 9–11–62, Cl. 189—34.
Diem, Hugh E., to The B. F. Goodrich Co. Polymerization of butadiene-1,3 hydrocarbons. 3,049,528, 8–14–62, Cl. 260—94.2.
Diemel, Heinrich, and G. Göpel, to Maschinenfabrik Moenus A.G. Pulling over and toe end lasting machine. 3,060,469, 10–30–62, Cl. 12—11.3.
Diemer, Gesinus: *See*—
Van Santen, Johannes. 3,015,731.
Diemer, Gesinus, to North American Philips Co., Inc. Circuit element. 3,043,958, 7–10–62, Cl. 250—211.
Diemer, Gesinus, to North American Philips Co., Inc. Semiconductor device for purposes of amplification or switching. 3,043,959, 7–10–62, Cl. 250—211.
Diemer, Gesinus, to North American Philips Co., Inc. Device for visual indication of direct voltages. 3,061,781, 10–30–62, Cl. 324—96.
Diemer, Gesinus, S. Duinker, E. F. de Haan, and J. G. van Santen, to North American Philips Co., Inc. Optronic shift register. 3,056,887, 10–2–62, Cl. 250—208.
Diener, Carl E.: *See*—
Dunaers, Dewey M., and Diener. 3,029,145.
Diener, Jack. Tooth cleaning device. 3,050,072, 8–21–62, Cl. 132—93.
Diener, Richard, to Berliner Maschinenbau A.G. vormals L. Schwartzkopff. Pipe cutting machine for automatically dividing a rotating and at the same time axially moving pipe. 3,043,576, 7–10–62, Cl. 266—23.
Dienes, Edward K., to Catalysts and Chemicals, Inc. Preparation of homogeneous catalysts containing cobalt oxide and aluminum oxide. 3,020,244, 2–6–62, Cl. 252—465.
Dieny, Alfred. Closing device for a pressure container. 3,055,536, 9–25–62, Cl. 220—44.
Dierichs, Helmut, and H. Holzrichter, ½ to Farbenfabriken Bayer Aktiengesellschaft, and ½ to Mobay Chemical Co. Hydrogenation of dinitrotoluene to toluylene diamine. 3,032,586, 5–1–62, Cl. 260—580.
Dierks, Bernhard. Parking apparatus. 3,063,580, 11–13–62, Cl. 214—16.1.
Dierks, Fred B. Slide fastener operator. 3,059,301, 10–23–62, Cl. 24—205.15.
Dierks, Raymond W., to Graphic Controls Corp. Control panels and wiring accessories for electronic data processing machines. 3,036,287, 5–22–62, Cl. 339—113.
Dierks & Sohne: *See*—
Sperling, Karl-Heinz. 3,024,010.
Dierschke, Klaus: *See*—
von Kessel, Kurt, and Dierschke. 3,054,727.
Dies, Herbert F., to Hurd Lock & Mfg. Co. Wheel cover. 3,031,232, 4–24–62, Cl. 301—37.
Diesel Equipment Ltd.: *See*—
Martin, John C. 3,069,052.
Diessel, Hildesheim, Gebr.: *See*—
Sonnberg, Joachim. 3,036,738.
Diesterweg, Roland E. Lawn edger. 3,018,602, 1–30–62, Cl. 56—295.
Dieter, Robert N.: *See*—
Piaia, Carl, Jr., and Dieter. 3,030,597.
Dieter, Wesley E., P. L. Golden, and S. Nazaruk, to United States of America, Interior. Closure for evacuated and/or pressurized vessel. 3,045,861, 7–24–62, Cl. 220—57.
Dieter, William J., J. H. Schroeder, and P. F. Flynn, to Du Page Precision Products Co. Can opener. 3,045,617, 7–24–62, Cl. 113—1.

Dieterich, Richard E., to Phillips Drill Co. Combined handle and ejector. 3,070,382, 12–25–62, Cl. 279—103.
Dietert, Harry W., to Harry W. Dietert Co. Continuous type sand mixer. 3,050,795, 8–28–62, Cl. 22—89.
Dietert, Harry W. and R. L., to Harry W. Dietert Co. Measuring and indicating apparatus for use in controlling the addition of moisture to solid granular material. 3,040,-251, 6–19–62, Cl. 324—65.
Dietert, Harry W., and A. L. Graham, to Harry W. Dietert Co. Two-stage moisture meter. 3,046,623, 7–31–62, Cl. 22—89.
Dietert, Harry W. and R. L., to Harry W. Dietert Co. Method and apparatus for weather responsive moisture compensation. 3,046,624, 7–31–62, Cl. 22—89.
Dietert, Harry W., Co. : *See*—
Dietert, Harry W. 3,050,795.
Dietert, Harry W., and Graham. 3,046,623.
Dietert, Harry W. and R. L. 3,040,251.
Dietert, Harry W. and R. L. 3,046,624.
Dietert, Randolph L. 3,047,801.
Steinmueller, Ralph E., and Rowell. 3,050,992.
Dietert, Randolph L. : *See*—
Dietert, Harry W. and R. L. 3,040,251.
Dietert, Harry W. and R. L. 3,046,624.
Dietert, Randolph L., to Harry W. Dietert Co. Moisture probe. 3,047,801, 7–31–62, Cl. 324—61.
Dietiker, Ernst, to Schweitzer, Maschinenfabrik, A.G. Method of and device for applying an end winding the top of wound weft bobbins and cops. 3,037,716, 6–5–62, Cl. 242—18.
Dietiker, Paul, to Minneapolis-Honeywell Regulator Co. Automatic gas valve. 3,046,406, 7–24–62, Cl. 250—215.
Dietiker, Paul, and H. M. Morgan, to Minneapolis-Honeywell Regulator Co. Diaphragm valve controller. 3,027,498, 3–27–62, Cl. 317—165.
Dietrich, Cornelius F., to Optical Measuring Tools Ltd. Optical measuring devices. 3,055,259, 9–25–62, Cl. 88—14.
Dietrich, Gerhard, to J. Kihlberg. Nail to be fed into a guide channel in a nailing machine, nailing method and machine for carrying out the method. 3,063,330, 11–13–62, Cl. 85—10.
Dietrich, Harold A., to Air Reduction Co., Inc. Anesthetic vaporizer and administering apparatus. 3,018,777, 1–30–62, Cl. 128—188.
Dietrich, Henri, to Geigy Chemical Corp. N-heterocyclic compounds. 3,040,031, 6–19–62, Cl. 260—239.
Dietrich, Henri, to Geigy Chemical Corp. Process for the production of a new N-heterocyclic compound. 3,056,776, 10–2–62, Cl. 260—259.
Dietrich, Henri, and W. Schindler, to Geigy Chemical Corp. New N-heterocyclic compounds. 3,056,774, 10–2–62, Cl. 260—239.
Dietrich, Howard H., to General Motors Corp. Fuel injection system. 3,017,873, 1–23–62, Cl. 123—119.
Dietrich, Howard H., to General Motors Corp. Crankcase vent valve. 3,056,420, 10–2–62, Cl. 137—245.
Dietrich, Howard H., and R. F. Sanders, to General Motors Corp. Turnpike throttle control. 3,062,312, 11–6–62, Cl. 180—82.1.
Dietrich, Joseph J., and R. D. Swigert, to Pittsburgh Plate Glass Co. Preparation of solid polycarbonate. 3,065,204, 11–20–62, Cl. 260—47.
Dietrich, Paul, to Maschinenfabrik Augsburg-Nurnberg A.G. Dampening apparatus for rotary printing presses. 3,026,-795, 3–27–62, Cl. 101—148.
Dietrich, Paul, to Maschinenfabrik Augsburg-Nurnberg, A.G. Printing press machinery. 3,043,219, 7–10–62, Cl. 101—378.
Dietrich, Walter L., and P. T. Galt, Jr., to The Arrow-Hart & Hegeman Electric Co. Lighted push button starting switch. 3,040,142, 6–19–62, Cl. 200—87.
Dietz, R. E., Co. : *See*—
Cleminshaw, Douglas R. 3,035,160.
Dietz, Alfred and G. Wire ropes. 3,018,607, 1–30–62, Cl. 57—148.
Dietz, Alma : *See*—
Bergy, Malcolm E., De Boer, Dietz, Eble, Herr, and Johnson. 3,027,300.
Dietz, Gerhard : *See*—
Dietz, Alfred and G. 3,018,607.
Dietz, Gerhard. Stranded metal ropes. 3,018,606, 1–30–62, Cl. 57—148.
Dietz, Gerald E. : *See*—
Bydalek, Floyd J., Dietz, and Matthews. 3,024,812.
Dietz, John J., to McGraw-Edison Co. Modulation type flame detecting system. 3,041,589, 6–26–62, Cl. 340—228.
Dietz, John W., D. J. MacFadgen, and N. C. Bossemeyer, to Koehler Aircraft Products Co. Self-contained sewerage system. 3,067,433, 12–11–62, Cl. 4—78.
Dietz, Max M., and P. R. O'Connell. Apparatus for dispensing stamps. 3,015,426, 1–2–62, Cl. 226—109.
Dietz, Milton S., to Polaroid Corp. Photographic shutter. 3,021,770, 2–20–62, Cl. 95—54.
Dietz, Paul L., Jr. : *See*—
Strain, Franklin, Wilson, Dietz, Hughes, and Arkless. 3,068,113.
Dietz, R. E., Co. : *See*—
Knapp, George A. 3,067,326.
Leeder, Harry A., Jr. 3,022,467.
Root, Elihu, III. 3,046,494.
Dietze, Allen L. Junction box. 3,033,913, 5–8–62, Cl. 174—60.
Dietze, Ruthard, to Solida Textil- und Netzwaren-Manufaktur Ruthard Dietze K.G. Hair curler. 3,037,515, 6–5–62, Cl. 132—42.
Dietzgen, Eugene Co. : *See*—
Klimkowski, Robert J., and Kahn. 3,027,256.
Klimkowski, Robert J., and Krueger. 3,046,128.
Dietzler, Andrew J. : *See*—
Bryner, Fred, and Dietzler. 3,041,370.
Dietzler, Andrew J., to The Dow Chemical Co. Method for making alkylidenebis (dibromophenols). 3,029,291, 4–10–62, Cl. 260—619.
Dietzler, Andrew J., and T. R. Keil, to The Dow Chemical Co. Activators for rhodium catalysts. 3,051,753, 8–28–62, Cl. 260—580.
Dietzler, Andrew J., and T. R. Keil, to The Dow Chemical Co. Catalytic reduction of halo-aromatic nitro compounds to haloaromatic amines. 3,067,253, 12–4–62, Cl. 260—575.
Dietzsch, Hans-Joachim and O., to Trikotfabriken J. Schiesser A.G. Radolfzell (Bodensee). Complex artificial filaments. 3,015,873, 1–9–62, Cl. 28—82.
Dietzsch, Otto : *See*—
Dietzsch, Hans-Joachim and O. 3,015,873.
Dieulangard, Serge D. A. Heating partition structures for buildings, and in particular in heating floors. 3,033,533, 5–8–62, Cl. 257—124.
Diez, Adolf : *See*—
Bertram, Eduard, and Diez. 3,017,042.
Di Federico, Nick, and L. W. Horn. Inboard mounted outboard motor watercraft. 3,040,697, 6–26–62, Cl. 115—70.
Differential-Diesel-(Vaduz, Furstentum Liechtenstein) : *See*—
Glamann, Wilhelm. 3,062,001.
Di Geambeardine, John : *See*—
Silverman, Bernard R., Carroll, Simkins, Di Geambeardino, and Jones. 3,068,500.
Di Giovanni, Mario, to Statham Instruments, Inc. Beam flexure. 3,036,469, 5–29–62, Cl. 73—514.
Di Giralamo, Joseph, and W. L. Keiver, to CTS Corp. Composite electrical control device for radio receivers. 3,023,-388, 2–27–62, Cl. 338—172.
Digital Control Systems, Inc. : *See*—
Steele, Floyd G. 3,021,062.
Steele, Floyd G. 3,021,064.
Steele, Floyd G. 3,022,949.
Steele, Floyd G. 3,027,078.
Steele, Floyd G. 3,035,768.
Steele, Floyd G. 3,045,912.
Steele, Floyd G. 3,050,251.
Steele, Floyd G. 3,063,047.
Digitronics Corp. : *See*—
Cohen, William D. 3,057,974.
Di Ianni, Elmo J. Geiger-Muller tube with low gamma to beta or alpha response ratio. 3,030,539, 4–17–62, Cl. 313—93.
Di Ianni, Elmo J., and F. C. Riggin. Gamma instrument calibration. 3,064,130, 11–13–62, Cl. 250—83.3.
Dijkema, Leendert F. W., to Heineken's Brouwerijen Nederland N.V. Apparatus for determining the purity of gases. 3,041,147, 6–26–62, Cl. 23—256.
Dijkhuizen, Hindrik : *See*—
Bodlaender, Wolfgang B. A., and Dijkhuizen. 3,052,663.
Dijksterhuis, Fokko and H. U. Panel with cellular inside structure. 3,018,209, 1–23–62, Cl. 154—45.9.
Dijksterhuis, Heertjen U. : *See*—
Dijksterhuis, Fokko and H. U. 3,018,209.
Dijkstra, Folkert : *See*—
Kerkhoven, Rudolf E., and Dijkstra. 3,062,672.
Dijkstra, Lieuwe J. : *See*—
McReynolds, Andrew W., and Dijkstra. 3,019,176.
Di Julio, Carl J. Diving helmet. 3,026,522, 3–27–62, Cl. 2—2.1.
Dike, Melville A., to W. D. Kraemer. Method of electroplating copper elbows. 3,051,632, 8–28–62, Cl. 204—16.
Dike, Robert S., D. W. Lier, A. E. Schofield, and J. L. Tuck, to United States of America, Atomic Energy Commission. High voltage, high current spark gap switch. 3,030,547, 4–17–62, Cl. 315—168.
Dike, Sheldon H., to United States of America, Navy. Amplifier which changes its frequency response with time. 3,048,791, 8–7–62, Cl. 330—185.
Dilday, Sidney A. Self-propelled adjustable tractor mole. 3,044,749, 7–17–62, Cl. 254—134.5.
Di Lemme, Philip. Combined glazing and weather stripping. 3,028,605, 2–13–62, Cl. 20—56.
Dill, Earl W., to M. Isaacson. Mixer. 3,023,580, 3–6–62, Cl. 60—52.
Di Liddo, Andrew J., and H. L. Meyer, to The Cleveland Trencher Co. Excavating machine. 3,037,307, 6–5–62, Cl. 37—97.
Dilionen, Rocco. Atomizer. 3,042,981, 7–10–62, Cl. 21—77.
Dilks, John H., to Lukens Steel Co. Hydraulic counterbalance and lift for slab grinder. 3,052,067, 9–4–62, Cl. 51—35.
Dill, Frederick H., to International Business Machines Corp. Logical circuits. 3,070,708, 12–25–62, Cl. 307—88.
Dill, Johann G., to Hughes Aircraft Co. High repetition rate pulse generator using avalanche transistor to discharge and blocking oscillator to recharge capacitor. 3,017,519, 1–16–62, Cl. 307—88.5.
Dillard, J. F. : *See*—
Lundbom, Wallace N. 3,061,706.

Dille, Roger M. : *See*—
Chapman, Ronald W., Ahlborn, and Dille. 3,044,179.
Eastman, DuBois, Dille, and Chapman. 3,069,251.
Eastman, Du Bois, Dille, Taylor, Toettcher, and Jordan. 3,048,540.

Dille, Roger M., R. W. Chapman, and J. C. Ahlborn, to Texaco Inc. Production of carbon monoxide and hydrogen. 3,016,986, 1–16–62, Cl. 183—121.

Dillehay, John W. : *See*—
Hlavacek, Robert J., Sauvage, and Dillehay. 3,051,984.
Hlavacek, Robert J., Sauvage, Dillehay, and Swift. 3,055,046.

Dillenberg, Horst. Rotary piston engine. 3,070,078, 12–25–62, Cl. 123—8.

Dillenburger, Wolfgang, and W. Koch, to Fernseh G.m.b.H. Method and apparatus for recording and reproducing video signals. 3,040,125, 6–19–62, Cl. 178—6.6.

Dilley, John A. : *See*—
Braunagel, Magnus V., and Dilley. 3,049,881.

Dilliner, Herman L., to Indico Valve Corp. Reversing valve. 3,055,394, 9–25–62, Cl. 137—625.29.

Dilliner, Herman L., to Indico Valve Corp. Refrigerating apparatus for automobiles. 3,059,449, 10–23–62, Cl. 62—239.

Dillingham, Edward, and J. J. Nyberg, to Thompson Ramo Wooldridge Inc. Semiconductor minority carrier circuits. 3,050,640, 8–21–62, Cl. 307—88.5.

Dillingham, Frederick L., to Soderhamn Machine Mfg. Co. Log measuring or scaling device. 3,024,537, 3–13–62, Cl. 33—178.

Dillingham, Frederick L., to Soderhamn Machine Mfg. Co. Log debarking machine of the rotary scraper head type. 3,028,891, 4–10–62, Cl. 144—208.

Dillistone, Brian H. Retrieving devices for submerged articles. 3,059,254, 10–23–62, Cl. 9—9.

Dillman, Earnest J., to American Radiator & Standard Sanitary Corp. Pressure regulator for diaphragm gas valves. 3,036,778, 5–29–62, Cl. 236—80.

Dillman, Edward E., and D. Ringo, to Engineers & Fabricators, Inc. Valve actuating mechanism. 3,040,592, 6–26–62, Cl. 74—130.

Dillner, Hans R. : *See*—
Lavis, William R., and Dillner. 3,062,387.

Dillon, Alfred J., Jr., to Lockheed Aircraft Corp. Starting means for a turbine power plant. 3,029,804, 4–17–62, Cl. 126—110.

Dillon, Charles, and G. Engström, to Allmanna Svenska Elektriska Aktiebolaget. Device for high voltage gas-filled rectifiers. 3,035,204, 5–15–62, Cl. 315—36.

Dillon, Edward M., ½ each to G. Morgese, L. Perrone, P. Gabriel, H. Littman, and J. R. Kellogg. Display devices. 3,063,180, 11–13–62, Cl. 40—32.

Dillon, Edwin I., to W. C. Dillon & Co., Inc. Combination force responsive structure and switch mounting receptacle. 3,033,966, 5–8–62, Cl. 200—172.

Dillon, John A., Jr. : *See*—
Hatch, Melvin J., and Dillon. 3,067,007.

Dillon, John A., Jr., to The Dow Chemical Co. Practice ball. 3,069,170, 12–18–62, Cl. 273—199.

Dillon, Joseph F., Jr., to Bell Telephone Laboratories, Inc. Translation device having ferromagnetic core. 3,040,184, 6–19–62, Cl. 307—88.

Dillon, Oscar W., to American Optical Co. Bevel-edged lenses. 3,063,340, 11–13–62, Cl. 88—54.

Dillon, Ralph R., to W. C. Dillon & Co., Inc. Force measuring apparatus. 3,033,033, 5–8–62, Cl. 73—141.

Dillon, W. C., & Co., Inc. : *See*—
Dillon, Edwin I. 3,033,966.
Dillon, Ralph R. 3,033,033.
Dillon, William C., and Kehm. 3,023,276.
Glerum, Irvin L. 3,033,032.
Kehm, Clarence H. 3,029,312.

Dillon, Wendell M., to Watts Regulator Co. Valve device insertable between flange fittings. 3,045,706, 7–24–62, Cl. 138—94.5.

Dillon, William C., and C. H. Kehm, to W. C. Dillon & Co., Inc. Communication system. 3,023,276, 2–27–62, Cl. 179—15.

Dills, Raymond L., to General Electric Co. Oven thermostat bulb protector. 3,015,712, 1–2–62, Cl. 219—35.

Dills, Raymond L., to General Electric Co. Oven thermostat protector. 3,024,344, 3–6–62, Cl. 219—35.

Dills, Raymond L., to General Electric Co. Double oven cleaning system. 3,041,440, 6–26–62, Cl. 219—35.

Dills, Raymond L., to General Electric Co. Hydraulic thermostat protector. 3,053,963, 9–11–62, Cl. 219—35.

Dilnot, Sidney. Light weight aerated concrete. 3,062,669, 11–6–62, Cl. 106—87.

Di Lorenzo, Bernard A., and W. R. Anderson, to Sylvania Electric Products Inc. Logic NOR circuit with speed-up capacitors having added series current limiting resistor to prevent false outputs. 3,027,465, 3–27–62, Cl. 307—88.5.

Dils, Eugene W., Jr. : *See*—
Larsen, Paul V., Eyolfson, Hill and Dils. 3,027,947.

Dils, Eugene W., Jr., to Electric Steel Foundry Co. Scraper bit. 3,032,901, 5–8–62, Cl. 37—141.

Diltz, Fred. Vehicle tire low pressure warning device. 3,030,911, 4–24–62, Cl. 116—34.

Di Luco, Eugene. Ribbon spool holder. 3,065,837, 11–27–62, Cl. 197—151.

Dilworth, William G. : *See*—
Addie, Albert N., and Dilworth. 3,045,420.

Dilworth, William G., to General Motors Corp. Bearing lubrication means. 3,017,229, 1–16–62, Cl. 308—122.

Dilworth, William G., to General Motors Corp. Variable curvature wrist pin bearing. 3,053,595, 9–11–62, Cl. 309—19.

Di Maggio, Carmelo A. : *See*—
Whitehouse, John B., Lamade, Di Maggio, and Hall. 3,043,069.

Di Maggio, Samuel S. Electroplating dispenser. 3,053,747, 9–11–62, Cl. 204—224.

Di Maio, Robert E. : *See*—
Waldron, Merritt C., and Di Maio. 3,070,787.

Di Marco, Aurelio, G. Boretti, R. Barchielli, C. Spalla, D. Cattapan, and C. Bertazzoli, to Societa Farmaceutici Italia. New analogues of vitamin B_{12} and process for their biosynthesis. 3,026,316, 3–20–62, Cl. 260—211.5.

Di Marco, Bernard : *See*—
Kralik, Andrew J., and Di Marco. 3,061,697.

Di Marco, Henry A., to International Business Machines Corp. Method of producing ferrite bodies. 3,031,407, 4–24–62, Cl. 252—62.5.

Di Matteo, George J. Communication switching arrangement. 3,065,301, 11–20–62, Cl. 179—2.

Dimatteo, Joseph. Water-weighted fishing line caster. 3,029,-544, 4–17–62, Cl. 43—44.9.

Di Mattia, Alfred L. : *See*—
Roberts, Frederick W., Jones, Di Mattia, and Curtis. 3,051,795.

Dimeff, John, to United States of America, National Aeronautics and Space Administration. Apparatus for coupling a plurality of ungrounded circuits to a grounded circuit. 3,059,220, 10–16–62, Cl. 340—147.

Dimeff, John, and M. S. Gardner, to United States of America, National Aeronautics and Space Administration. Differential pressure cell. 3,022,672, 2–27–62, Cl. 73—398.

Di Meglio, Joseph E. : *See*—
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Di Miceli, Alphonso G. : *See*—
Cahn, Robert P., and Di Miceli. 3,058,893.

Di Mino, Alfonso, to Burroughs Corp. Milling apparatus. 3,045,933, 7–24–62, Cl. 241—111.

Dimke, Harold L., to General Electric Co. Oil thrower arrangement for dynamoelectric machines. 3,038,764, 6–12–62, Cl. 308—36.4.

Dimler, William A., Jr. : *See*—
Thorn, John P., Dimler, and Gallagher. 3,066,151.

Dimler, William A., Jr., A. A. Schetelich, and J. J. Murphy, Jr., to Esso Research and Engineering Co. Alcohol stabilized esters. 3,057,920, 10–9–62, Cl. 260—632.5.

Dimler, William A., Jr., and J. A. Gallagher, to Esso Research and Engineering Co. Light-stabilized polyvinylchloride formulation. 3,065,192, 11–20–62, Cl. 260—23.

Dimler, William A., Jr., and S. Stahl, to Esso Research and Engineering Co. Method of stabilizing alcholos with alkali metal aluminum hydrides. 3,065,258, 11–20–62, Cl. 260—475.

Dimmenna, Ralph L. : *See*—
David, Bruce F., and Dimmenna. 3,025,051.

Dimmer, Robert P., to Automatic Electric Laboratories, Inc. Negative impedance repeater. 3,024,324, 3–6–62, Cl. 179—170.

Dimmer, Robert P., to Automatic Electric Laboratories, Inc. Automatic mobile telephone system. 3,041,402, 6–26–62, Cl. 179—15.5.

Dimmer, Robert P., to Automatic Electric Laboratories, Inc. Automatic mobile telephone system. 3,050,591, 8–21–62, Cl. 179—41.

Dimond, George H., to Consolidated Packaging Machinery Corp. Chuck for capping machines. 3,031,822, 5–1–62, Cl. 53—317.

Dimond, George H., to Consolidated Packaging Machinery Corp. Capping equipment. 3,054,240, 9–18–62, Cl. 53—308.

Dimond, Harold L., to Gulf Research & Development Co. Process for alkylating an aromatic hydrocarbon with an olefin. 3,049,315, 7–24–62, Cl. 260—671.

Dimond, Thomas L., and A. C. Wyckoff, to Bell Telephone Laboratories, Inc. Elapsed time recorder stamp impression reader. 3,031,135, 4–24–62, Cl. 235—61.6.

Di Monico, George S. : *See*—
Leathers, Ward, Di Monico, and Bruebl. 3,015,254.

Di Monte, Angelo M., to Winchester Electronics, Inc. Electrical connector with resiliently mounted removable contacts. 3,028,574, 4–3–62, Cl. 339—61.

Di Mucci, Vito A., to Motorola, Inc. Transistor pulse circuit. 3,037,131, 5–29–62, Cl. 307—88.5.

Dine, Lester A., and E. Lemmey. Combination light and lens mount for cameras. 3,048,079, 8–7–62, Cl. 88—1.

Dineen, John : *See*—
Penkoff, Theodore, and Dineen. 3,036,625.

Dines, James M. : *See*—
Chubb, Melvin F., and Dines. 3,022,364.

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Grela, Milton W., and Dingee. 3,062,380.

Dinger, Edward H., to General Electric Co. Motor control circuit. 3,024,401, 3–6–62, Cl. 318—327.

Dinger, Edward H., to General Electric Co. Motor speed control circuits. 3,064,174, 11–13–62, Cl. 318—331.

Dinger, Frederick R., to Ford Motor Co. Integrated hydraulic system. 3,054,262, 9–18–62, Cl. 60—52.

Dinger, George F. Adaptor for connecting a fishing line to and controlling a signalling device. 3,063,185, 11–13–62, Cl. 43—17.

Dingle, Arthur Durwin: *See*—
Adamek, Stephen, and Dingle. 3,033,835.
Dingledy, William P. Tubular structure. 3,038,503, 6–12–62, Cl. 138—155.
Dingman, Glen H., to The Bendix Corp. Electrical contact brush and spring assembly. 3,032,735, 5–1–62, Cl. 339—6.
Dingus, James A.: *See*—
Mellott, Frank M. 3,044,408.
Di Nicolantonio, Frank, Jr., and W. M. Brittain, to Westinghouse Electric Corp. Rolling mill control apparatus. 3,035,465, 5–22–62, Cl. 80—56.
Dinkelkamp, Henry T., to Stewart-Warner Corp. Reciprocating air motor. 3,021,823, 2–20–62, Cl. 121—164.
Dinkelkamp, Henry T., and W. G. Jennings, to Stewart-Warner Corp. Centralized lubrication system and adjusting measuring valve therefor. 3,031,032, 4–24–62, Cl. 184—7.
Dinlocker, Robert I., to Electro Mechanical Instrument Co. Condition indicating device for dry-charged batteries. 3,030,615, 4–17–62, Cl. 340—249.
Dinlocker, Robert I., to Electro-Mechanical Instrument Co. Horsepower measuring system. 3,045,478, 7–24–62, Cl. 73—136.
Dinneen, Thomas J. Winding device. 3,042,337, 7–3–62, Cl. 242—85.1.
Dinning, John R., to Toledo Scale Corp. Motor generator set start control. 3,026,971, 3–27–62, Cl. 187—29.
Dinning, John R., to Toledo Scale Corp. Elevator control system. 3,051,268, 8–28–62, Cl. 187—29.
Dinning, Robert W.: *See*—
Brown, Norman F., Peters, and Dinning. 3,039,394.
Garrett, Henry U., Peters, and Dinning. 3,045,759.
Peters, Clifford M., Dinning, and Brown. 3,045,750.
Dinning, Robert W., and V. B. Scott, to U.S. Industries, Inc. Differential controller system. 3,053,188, 9–11–62, Cl. 103—52.
Di-Noc Chemical Arts, Inc.: *See*—
Reese, Thomas S. 3,067,054.
Dinsmoor, Theodore E.: *See*—
De Kanski, Leon M., Dinsmoor, Guinard, and Martinuzzi. 3,056,104.
Dinsmore, David W., and A. H. Smith, to Monsanto Chemical Co. S-amine salts of thioglycolic acid. 3,060,166, 10–23–62, Cl. 260—132.
Dinsmore, Dawson J. Foot attachment for block and tackle type spring counterbalances. 3,055,044, 9–25–62, Cl. 16—197.
Dinsmore Instrument Co.: *See*—
Dinsmore, Robert C. 3,033,044.
Dinsmore, Robert C. 3,069,783.
Dinsmore, Robert C., to Dinsmore Instrument Co. Speedometer. 3,033,044, 5–8–62, Cl. 73—520.
Dinsmore, Robert C., to Dinsmore Instrument Co. Compass. 3,069,783, 12–25–62, Cl. 33—222.
Dinsmore, Stanley H., and R. M. Lee, to The Bendix Corp. Keyboard apparatus. 3,017,463, 1–16–62, Cl. 178—79.
Dinstman, Hyman. Waterproof stem seal for watch cases. 3,040,514, 6–26–62, Cl. 58—90.
Dintelmann, Edwin L. Sawhorse. 3,045,777, 7–24–62, Cl. 182—153.
Dinter, Konrad, to Telefunken G.m.b.H. Quadrature wave generator. 3,043,019, 7–10–62, Cl. 328—223.
Di Nunzio, James J., to The Goodyear Tire & Rubber Co. Outsole and method of manufacture. 3,042,948, 7–10–62, Cl. 12—146.
Diodes Inc.: *See*—
Stump, Harvey. 3,050,666.
Dion, George C., to Nold Corp. Apparatus for protecting concrete and other masonry materials. 3,051,821, 8–28–62, Cl. 219—46.
Dion, Georges, to Les Laboratoires de Physique Appliquee-L.E.G.P.A. Means for measuring speed and the like data in fluids assuming a relative movement. 3,068,691, 12–18–62, Cl. 73—182.
Dion, Gerald J.: *See*—
Dion, Walter G. and G. J. 3,069,536.
Dion, John F., to Package Machinery Co. Glueless interlock carton construction and blank therefor. 3,069,061, 12–18–62, Cl. 229—35.
Dion, Walter G. and G. J. Light projector. 3,069,536, 12–18–62, Cl. 240—3.
Dionne, Vianney J., to Midland-Ross Corp. Draw curtains and the like. 3,064,691, 11–20–62, Cl. 139—419.
Di Palma, Laurine M.: *See*—
Di Palma, Leon J. and L. M. 3,055,358.
Di Palma, Leon J. and L. M. Cervical collar. 3,055,358, 9–25–62, Cl. 128—75
Di Paolo, Thomas V., to Philco Corp. Laminated magnetic shielding means for television tubes and the like. 3,019,361, 1–30–62, Cl. 313—76.
Di Pasquale, Fred A.: *See*—
Pinta, John G., Di Pasquale, and Peasley. 3,021,557.
Di Pasquale, Fred A.: *See*—
Peasley, John W., and Di Pasquale. 3,054,229.
Di Pasquale, Joseph S.: *See*—
Bonde, Alfons A., and Di Pasquale. 3,032,076.
Di Pasquale, Renato: *See*—
Solomon, Frank, Brown, and Di Pasquale. 3,069,486.
Di Pasquale, Renato, and F. Solomon, to Yardney International Corp. Grid for battery electrodes. 3,016,413, 1–9–62, Cl. 136—45.
Di Piazza, James T., to Esso Research and Engineering Co. Antistatic additives. 3,062,630, 11–6–62, Cl. 44—56.
Di Pietro, Harry R.: *See*—
Johns, Iral B., and Di Pietro. 3,057,895.
Di Pietro, Matthew: *See*—
Robinson, Herbert T., and Di Pietro. 3,033,078.
Di Pietro, William P., to Westinghouse Electric Corp. Position indicator. 3,032,754, 5–1–62, Cl. 340—282.
Dipprey, James C., and J. J. Sandifer. Lens grinding device. 3,037,331, 6–5–62, Cl. 51—123.
Direct-O-Dial, Inc.: *See*—
Buckley, William D., Jr. 3,061,963.
Dirks, Gerhard. Electronic adder-subtractor apparatus employing a magnetic drum. 3,018,960, 1–30–62, Cl. 235—176.
Dirks, Gerhard. Electronic computing means. 3,022,950, 2–27–62, Cl. 235—153.
Dirks, Gerhard. Data-conversion devices. 3,029,020, 4–10–62, Cl. 235—61.6.
Dirks, Gerhard. Storing of signals. 3,031,647, 4–24–62, Cl. 340—172.5.
Dirks, Gerhard. Transfer of data. 3,037,194, 5–29–62, Cl. 340—172.5.
Dirks, Gerhard. Distributor-controlled magnetic storage unit. 3,042,901, 7–3–62, Cl. 340—172.5.
Dirks, Gerhard. Storage of signals. 3,042,905, 7–3–62, Cl. 340—174.1.
Dirks, Gerhard. Storage devices for signals. 3,049,694, 8–14–62, Cl. 340—172.5.
Dirks, Gerhard. Means for the visual indication of numbers and other information. 3,056,955, 10–2–62, Cl. 340—324.
Dirks, Gerhard. Transfer and storage of digital data signals. 3,060,414, 10–23–62, Cl. 340—174.1.
Dirks, Gerhard. Step by step printer. 3,063,536, 11–13–62, Cl. 197—19.
Dirks, Henry D. Shaft straightening machine. 3,028,905, 4–10–62, Cl. 153—53.
Dirlik, Paul P. Motion transforming apparatus. 3,051,249, 8–28–62, Cl. 170—160.22.
Dirr, Josef. Arrangement for setting magnetic circuits. 3,020,536, 2–6–62, Cl. 340—364.
Dirth, George P., and I. D. Fackrell. Gage control system for strip mill. 3,036,481, 5–29–62, Cl. 80—35.
Dirzius, Bennie F. Hollow drill sharpener. 3,068,720, 12–18–62, Cl. 77—82.
Di Sabatino, Roland, to Radio Corp. of America. Automatic phonograph record player. 3,046,022, 7–24–62, Cl. 274—10.
Discenza, Nelson. Back-filling blade for a power shovel. 3,043,032, 7–10–62, Cl. 37—117.5.
Dischinger, Henry F., to Hewitt-Robbins Inc. Reclaiming method and apparatus. 3,069,027, 12–18–62, Cl. 214—10.
Dishart, Kenneth T.: *See*—
Coyner, Eugene C., Dishart, and Rondestvedt. 3,038,947.
Dishart, Kenneth T., to E. I. du Pont de Nemours and Co. Halogenated propane inhalation anesthetic mixtures. 3,034,959, 5–15–62, Cl. 167—52.
Dishaw, Albert A. Sliding door hanger. 3,057,005, 10–9–62, Cl. 16—105.
Dishmaster Appliances Ltd.: *See*—
Balshaw, Leonard B. 3,043,724.
Dishon, Alonzo. Archery target mat. 3,048,401, 8–7–62, Cl. 273—102.
Disinger, Frank A.: *See*—
Caughill, Robert F., and Disinger. 3,018,089.
Caughill, Robert F., and Disinger. 3,033,534.
Diskus, Alfred: *See*—
Bodo, Gerhard, Diskus, and Beck. 3,044,929.
Disler Engineering Corp.: *See*—
Disler, Loyd W. 3,054,598.
Disler, Lloyd W., to Disler Engineering Corp. Cooler mechanisms. 3,054,598, 9–18–62, Cl. 257—137.
Disler, Lloyd W., and H. W. Evans. Integral ebullient cooler. 3,030,077, 4–17–62, Cl. 257—314.
Disney, Walt, Productions: *See*—
Hamel, Jacob S. 3,030,895.
Dison, James R., Jr., to General Motors Corp. Shaft seal. 3,053,590, 9–11–62, Cl. 308—184.
Dispenza, Daniel A., to General Precision Inc. Arrangement whereby the resistance value of a potentiometer will vary in accordance with a predetermined mathematical function. 3,068,439, 12–11–62, Cl. 338—89.
Disselnkötter, Hans, and B. Homeyer, to Bayer Aktiengesellschaft. Farbenfabriken. Method of combating nematodes. 3,036,951, 5–29–62, Cl. 167—22.
Dissen, Israel J., to Velsicol Chemical Corp. Hydrogenated cyclopentadiene polymers. 3,062,800, 11–6–62, Cl. 260—93.1.
Di Stefano, Benny J. Line protractor. 3,061,931, 11–6–62, Cl. 33—1.
Distel, Joseph W., to Polaroid Corp. Exposure control devices. 3,029,719, 4–17–62, Cl. 95—10.
Distel, Joseph W., to Polaroid Corp. Photographic exposure control. 3,046,859, 7–31–62, Cl. 95—10.
Distel, Richard, and C. F. Hautau. Machine and method of forming bands. 3,048,213, 8–7–62, Cl. 153—2.
Distelmaier, Alfred, and W. Scholtan, to Farbenfabriken Bayer Aktiengesellschaft. Mono-glycol esters of 3,5-di-iodo-4-pyridone-N-acetic acid X-ray contrast agents in bronchography. 3,021,260, 2–13–62, Cl. 167—95.

Distillers Co. Ltd., The: *See*—
Ardley, Stanley M. 3,047,519.
Ardley, Stanley M., and Jones. 3,021,300.
Bailey, Hubert C. 3,067,259.
Bellringer, Frederick J. 3,015,679.
Bessant, Kenneth H. C., and Matthews. 3,067,186.
Cook, Richard E. 3,042,726.
Coppock, Philip D. 3,063,689.
Craven, Ernest C., and Fewlass. 3,041,378.
Dobson, Kenneth R., and Bailey. 3,031,491.
Fraser, Donald A., and Raum. 3,057,836.
Gasson, Edward J., Hadley, and Wood. 3,031,500.
Hadley, David J., and Bream. 3,051,630.
Heathcote, John G. 3,042,588.
Jowitt, Hubert. 3,052,713.
Lacey, Richard N. 3,041,380.
Lacey, Richard N. 3,056,839.
Lacey, Richard N., and Nayler. 3,049,565.
Lachowicz, Stefan K. 3,026,360.
Nayler, Peter. 3,017,429.
Newman, Frank C. 3,015,678.
Olsen, Arne J. C. 3,057,785.
Raum, Alaric L. J. 3,027,360.
Raum, Alaric L. J. 3,057,841.
Raum, Alaric L. J. 3,070,590.
Ridgeway, Frank. 3,053,828.
Sher, Harry N. 3,032,476.
Sherlock, Roy. 3,035,983.

Distler, Harry, and K. Kuespert, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of water-soluble salts of alpha, beta-ethylenically unsaturated sulfonic acids. 3,048,625, 8–7–62, Cl. 260—513.

Ditel, Wukol. Automobile having four driven wheels. 3,027,-960, 4–3–62, Cl. 180—41.

Di Tirro, Domenic A., and R. J. Cameron, to Ross Operating Valve Co. Control system for fluid actuated devices. 3,067,767, 12–11–62, Cl. 137—461.

Ditmar, Willem P. A., to Unilever N.V. Method of forming a container. 3,054,150, 9–18–62, Cl. 18—56.

Ditmars, Walter E., Jr.: *See*—
McCallum, John, Johnson, Ditmars, and McGraw. 3,033,910.

Di Toro, Michael J., and W. Graham, to United States of America, Navy. Method and means for spectrum analysis of radio signals. 3,021,479, 2–13–62, Cl. 324—77.

Ditter, Francis J., to Sod-Master Corp. Sod cutting knife. 3,034,589, 5–15–62, Cl. 172—22.

Ditter, Francis J., and W. C. Kaercher, Jr., to Federal Aircraft Works, Inc. Grinding attachment for sod cutting machine. 3,069,820, 12–25–62, Cl. 51—247.

Ditting, Adolf: *See*—
Engl, Walter. 3,021,984.

Dittman, Emil M., J. J. Coleman, and E. F. Steinhoff, to Servel, Inc. Production of electrical resistor elements. 3,061,501. 10–30–62. Cl. 156—250.

Ditto, Inc.: *See*—
Wacynski, Walter A., Thomas, and Uhl. 3,049,994.

Ditto, Richard S., to E. I. du Pont de Nemours and Co. Heating apparatus. 3,036,188, 5–22–62, Cl. 219—20.

Dittrich, Edward. Forked spike heel. 3,041,745, 7–3–62, Cl. 36—34.

Dittrich, Otto: *See*—
Karig, Erhardt, Steuer, and Dittrich. 3,043,154.
Karig, Erhardt, Steuer, Schrodt, and Dittrich. 3,043,-152.

Dittrich, Otto, to Reimers-Getriebe K.G. Link chain for infinitely variable pulley gear transmissions. 3,016,755. 1–16–62. Cl. 74—230.17.

Dittrich, Otto, R. Schrodt, and E. Karig, to Reimers-Getriebe KG. Control mechanism for infinitely variable gears. 3,052,132, 9–4–62, Cl. 74—230.17.

Ditzler, John L., to Westinghouse Electric Corp. Systems for cooling stators of refrigerant compressors. 3,057,172, 10–9–62, Cl. 62—505.

Divers, Raymond T., and P. J. Lynch, to Carrier Corp. Fluid-stop joint between electrical conductors. 3,054,844, 9–18–62, Cl. 174—22.

Diversey Corp., The: *See*—
Kaveggia, Frederick, Berst, and Alt. 3,067,080.
Krueger, Robert H., Berst, and Alt. 3,039,970.

Diversified Technology, Inc.: *See*—
Reick, Franklin G. 3,026,572.
Reick, Franklin G. 3,027,278.

Divine, William H., and J. R. Harnish, to Borg-Warner Corp. Air conditioning systems. 3,028,735, 4–10–62, Cl. 62—260.

Di Vito, Louis J. Electrical connector. 3,052,770, 9–4–62, Cl. 200—51.09.

Divis, Roy R. Stabilization of polychlorotrifluoroethylene with chlorine gas. 3,045,000, 7–17–62, Cl. 260—92.1.

Di Vita, Fosco L.: *See*—
Wier, Thomas G., and Di Vita. 3,047,076.

Divola, John M., and R. D. Schaufele, to Douglas Aircraft Co., Inc. Trim force control system. 3,067,970, 12–11–62, Cl. 244—83.

Divola, John W.: *See*—
Curtis, Harold S., Curtis, Divola, Maletz, Morris, and Schiltz. 3,048,356.

Dix, George P., to Martin-Marietta Corp. Subsurface containment for nuclear power reactors. 3,021,273, 2–13–62, Cl. 204—193.2.

Dix, Willy, and G. Wehr, to Deutsche Star Kugelhalter, G.m.b.H. Tolerance rings. 3,061,386, 10–30–62, Cl. 308—184.

Dixie Tool Industries, Inc.: *See*—
Cave, Robert S., and Alexander. 3,058,199.

Dixie Wax Paper Co.: *See*—
Ross, Travis Y. 3,044,369.

Dixler, Daniel S.: *See*—
Arquette, Gordon J., Dixler, and Strier. 3,017,260.

Dixon, Albert L. Device for determining the contents of sealed containers. 3,067,412, 12–4–62, Cl. 340—259.

Dixon, Alfred L.: *See*—
Cubbidge, James F., and Dixon. 3,057,452.

Dixon, Daniel R. Building block assembly. 3,036,407, 5–29–62, Cl. 50—443.

Dixon, Edgar O., and S. M. MacNeille, to United States of America, Navy. Target-seeking guidance system. 3,065,-931, 11–27–62, Cl. 244—14.

Dixon, Francis A. T.: *See*—
Bonnell, Robert P., Ramsay, and Dixon. 3,068,752.

Dixon, Fredric J., to Telecomputing Corp. Remotely controlled actuator. 3,037,484, 6–5–62, Cl. 121—38.

Dixon, Harold F. E.: *See*—
Newman, Douglas A., and Dixon. 3,017,297.
Newman, Douglas A., and Dixon. 3,062,676.

Dixon, Henry O.: *See*—
Marx, John W., Langenheim, Dixon, and Trantham. 3,019,837.

Dixon, Henry O., to Phillips Petroleum Co. Production of uncontrolled sand by in situ combustion. 3,044,546, 7–17–62, Cl. 166—11.

Dixon, James H. Scleral brace. 3,064,643, 11–20–62, Cl. 128—76.5.

Dixon, Joseph, Crucible Co., The: *See*—
Coady, Harry A. 3,040,400.

Dixon, Lloyd H., Jr., to Solid State Products, Inc. Sealing of electrical semiconductor devices. 3,020,454, 2–6–62, Cl. 317—234.

Dixon, Lloyd H., Jr., to Solid State Products Inc. Sealing of electrical semiconductor devices. 3,039,175, 6–19–62, Cl. 29—473.3.

Dixon, Lyle W. Parallel rule slide rule. 3,022,002, 2–20–62, Cl. 235—70.

Dixon, Paul H., to United Shoe Machinery Corp. Extractor for automatic guns. 3,057,100, 10–9–62, Cl. 42—25.

Dixon, Paul H. Mechanism for handling workpieces. 3,057,-514, 10–9–62, Cl. 221—179.

Dixon, Reginald J., L. Jones, and J. S. Riley, to Wickman Ltd. Lathes. 3,043,166, 7–10–62, Cl. 77—5.

Dixon, Rolland E.: *See*—
Plaster, William E., and Dixon. 3,053,521.

Dixon, Thomas M., E. J. Zeilberger, and J. H. Langworthy, to North American Aviation, Inc. Solid composite rocket propellants containing amide epoxide polymers. 3,028,271, 4–3–62, Cl. 52—5.

Dixson, Bruce E., to Northrop Corp. Azimuth control in a guidance system. 3,015,457, 1–2–62, Cl. 244—14.

Dixson, Bruce E., to Northrop Corp. Guidance system. 3,027,841, 4–3–62, Cl. 102—50.

Djerassi, Carl: *See*—
Bowers, Albert, Casas-Campillo, Zderic, and Djerassi. 3,067,212.
Iriarte, Jose, Djerassi, and Kincl. 3,053,839.
Mills, John S., Ringold, and Djerassi. 3,062,845.
Ringold, Howard J., and Djerassi. 3,067,213.
Ringold, Howard J., Sondheimer, Rosenkranz, Strok, and Djerassi. 3,065,226.
Ringold, Howard J., Zderic, Djerassi, and Bowers. 3,026,317.
Rosenkranz, George, and Djerassi. 3,018,284.
Zderic, John A., Ringold, and Djerassi. 3,052,676.

Djerassi, Carl, to Syntex S.A. 6α-substituted-16β-methyl-11-epihydrocortisone. 3,057,858, 10–9–62, Cl. 260—239.55.

Djerassi, Carl, G. Rosenkranz, S. Kaufmann, J. Pataki, and J. Romo, to Syntex S.A. Production of ring A aromatics steroids. 3,020,294, 2–6–62, Cl. 260—397.3.

Djerassi, Carl, and J. A. Zderic, to Syntex, S.A. Derivatives of cortisone and hydrocortisone. 3,026,320, 3–20–62, Cl. 260—239.55.

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Djerassi, Carl, and H. J. Ringold, to Syntex S.A. Process for the production of 6α-fluorocortisone-21-acetate and intermediates therein. 3,027,368, 3–27–62, Cl. 260—239.55.

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Djordjevitch, Yesdimir. Shock absorber. 3,066,767, 12–4–62, Cl. 188—88.

Dluggs, Gerald S., to Borg-Warner Corp. Variable displacement hydraulic apparatus. 3,016,837. 1–16–62, Cl. 103—37.

Dlugosch, Paul A., to Noble Mfg. Co. Farm implement transport carrier. 3,021,908, 2–20–62, Cl. 172—466.

Dmitroff, George A., to United Aircraft Corp. Power and starting system for engines. 3,027,704, 4–3–62, Cl. 60—6.

Doak, Edmond R.: *See*—
Brislawn, Mark G., Jr. 3,055,618.
Reichert, James B. 3,052,430.

Doak, Edmond R. Means to supplement the normal thrust of a high speed aircraft at low speed. 3,058,693, 10–16–62, Cl. 244—23.
Doak, Edmond R. Energy-absorbing protective element for aircraft. 3,066,888, 12–4–62, Cl. 244—7.
Doak, Kenneth W., to Koppers Co., Inc. Copolymerization of styrene and alpha-methylstyrene. 3,036,053, 5–22–62, Cl. 260—88.2.
Do All Co., The: *See*—
Anderson, William T. 3,034,378.
Doan, David B., to Texas Instruments Inc. Transistor voltage regulator. 3,022,457, 2–20–62, Cl. 323—22.
Doan, Harold R., and J. A. Scovel. Double deck trailer loading structure. 3,020,083, 2–6–62, Cl. 296—24.
Doan, Robert B., to The Atlantic Refining Co. Liquid detergent compositions. 3,021,284, 2–13–62, Cl. 252—110.
Doan, Robert B., to The Atlantic Refining Co. Heavy duty liquid detergent. 3,023,168, 2–27–62, Cl. 252—137.
Doan, Roscoe L. Reinforced building board. 3,037,894, 6–5–62, Cl. 154—45.9.
Doane, Elliott P., to Hooker Chemical Co. Visual metering technique for low boiling liquids. 3,053,084, 9–11–62, Cl. 73—209.
Doane, James E., and W. F. Ridenour, to Cheshire, Inc. Leveling machines. 3,039,517, 6–19–62, Cl. 156—511.
Dobbelstein, Heinz: *See*—
Bessler, Alfred, Rabe, and Dobbelstein. 3,056,472.
Bessler, Alfred, Rabe, Dobbelstein, and Von Ey. 3,065,829.
Dobbertin, Gunther H. W., to Bergborrmaskiner, Aktiebolaget. Internal combustion engines for power-driven tools. 3,036,566, 5–29–62, Cl. 123—195.
Dobbie, James, to Westinghouse Electric Corp. Differential rate circuit. 3,040,187, 6–19–62, Cl. 307—88.5.
Dobbie, James M.: *See*—
Combs, Theodore C., and Dobbie. 3,044,656.
Combs, Theodore C., and Dobbie. 3,044,658.
Dobbins, Mark, J. J. Gruber, R. Repp, and B. E. Rockhoff, to Fenestra, Inc. Building structures. 3,049,198, 8–14–62, Cl. 189—34.
Dobbins, Willis E., to United Aircraft Corp. Apparatus for conversion of degrees to minutes. 3,047,229, 7–31–62, Cl. 235—159.
Dobeckmun Co., The: *See*—
Gould, Arthur S., and Nathanson. 3,019,592.
Dobek, Gunther: *See*—
Sennewald, Kurt, Born, Erpenbach, and Dobek. 3,022,332.
Sennewald, Kurt, Dobek, and Joest. 3,022,336.
Dobelle, Martin. Femoral head prosthesis. 3,024,785, 3–13–62, Cl. 128—92.
Dobes, Michael J., to The National Acme Co. Snap-acting switch. 3,053,950, 9–11–62, Cl. 200—78.
Dobes, Michael J., to The National Acme Co. Multi-position switch. 3,059,071. 10–16–62, Cl. 200—47.
Doble Engineering Co.: *See*—
Doble, Frank C., and Oliver. 3,037,164.
Von Fuchs, George H. 3,040,250.
Doble, Frank C., and E. S. Oliver, to Doble Engineering Co. Insulating oil testing apparatus. 3,037,164, 5–29–62, Cl. 324—54.
Doble, Warren: *See*—
McLean, Murray G., Orth, and Doble. 3,041,979.
Dobner, Reinhold: *See*—
Reeber, Rudolf, Dobner, and Astrupgaard. 3,066,625.
Dobratz, Elmer H., to Koppers Co., Inc. Process for producing dialkyl aluminum hydrides. 3,026,345, 3–20–62, Cl. 260—448.
Dobrick, Joseph: *See*—
Day, Lawrence, Dobrick, and Kay. 3,032,987.
Dobrikin, Harold L., to Berg Airlectro Products Co. Piston construction. 3,017,861, 1–23–62, Cl. 121—38.
Dobrikin, Harold L., to Berg Airlectro Products Co. Connector device. 3,018,123, 1–23–62, Cl. 287—59.
Dobrikin, Harold L., to Berg Airlectro Products Co. Relay valve. 3,022,118, 2–20–62, Cl. 303—40.
Dobrikin, Harold L., to Berg Airlectro Products Co. Identical reinforced half couplings for hose. 3,023,031, 2–27–62, Cl. 285—69.
Dobrikin, Harold L., to Berg Airlectro Products Co. Dash control valve. 3,027,905, 4–3–62, Cl. 137—102.
Dobrikin, Harold L., to Berg Airlectro Products Co. Automatic shuttle safety valve. 3,042,061, 7–3–62, Cl. 137—102.
Dobrikin, Harold L., and V. Mastis, to Berg Airlectro Products Co. Parking brake chamber. 3,028,842, 4–10–62, Cl. 121—38.
Dobrosavljevic, Slobodan M. Internal combustion engines. 3,038,455, 6–12–62, Cl. 123—32.
Dobrosielski, Stephen S., and W. L. Lang, to Westinghouse Electric Corp. Enclosed device with cover-mounting means. 3,018,127, 1–23–62, Cl. 292—251.
Dobrowolski, Jerzy A., to National Research Council. Narrow band interference filter. 3,039,362, 6–19–62, Cl. 88—106.
Dobrowsky, Alfred G.: *See*—
Dashew, Stanley A., Sumida, Dobrowsky, and Greene. 3,056,347.
Hill, George H., Sumida, and Dobrowsky. 3,045,589.
Dobry, Reuven, E. M. Butterwoth, and R. Jang, to Olin Mathieson Chemical Corp. Process for producing vitamin B12. 3,062,723, 11–6–62, Cl. 195—114.
Dobson, Frank E., and T. J. Manvell, to American Can Co. Apparatus for assembling aerosol valves. 3,015,155, 1–2–62, Cl. 29—211.
Dobson, Franklin A., to North American Aviation, Inc. Double wall construction. 3,064,317, 11–20–62, Cl. 20—4.
Dobson, Kenneth R., and H. C. Bailey, to The Distillers Co. Ltd. Purification of esters of dicarboxylic acids. 3,031,491, Cl. 260—475.
Dock & Dock: *See*—
Mintz, Albert E. 3,039,289.
Dock Fon Toy, Arthur: *See*—
Lauck, Robert M., and Dock Fon Toy. 3,018,180.
Dock, Mortimer R., E. J. Chaloux, and E. Greene. Timing device. 3,025,665, 3–20–62, Cl. 58—144.
Dockstader, John H.: *See*—
Andersen, Johan M., and Dockstader. 3,046,033.
Doctor, Bernard H., and J. V. O'Bryan, to Avco Corp. Erosion sensor. 3,015,950, 1–9–62, Cl. 73—86.
Doctor, Norman J., to United States of America, Army. Electrical interconnection of miniaturized modules. 3,029,495, 4–17–62, Cl. 29—155.5.
Dodd, Arthur E., to Westinghouse Air Brake Co. Apparatus for the control of highway crossing signal. 3,046,393, 7–24–62, Cl. 246—130.
Dodd, Frederick G., to The Pure Oil Co. Thermally stable attapulgite-base drilling mud. 3,046,221, 7–24–62, Cl. 252—8.5.
Dodd, Frederick G., 15% to R. G. Mentag. Chemical dispenser for automatic washing machines. 3,053,066, 9–11–62, Cl. 68—23.
Dodd, Ralph E.: *See*—
Heinz, Walter E., and Dodd. 3,041,161.
Dodd, Robert M. Adjustable scaffold stop. 3,065,982, 11–27–62, Cl. 287—58.
Dodge, Adiel Y. One way clutches. 3,036,678, 5–29–62, Cl. 192—45.1.
Dodge, Adiel Y. Transmission. 3,048,057, 8–7–62, Cl. 74—677.
Dodge, Adiel Y. Transmission. 3,055,232, 9–25–62, Cl. 74—677.
Dodge, Adiel Y. Air conditioning apparatus. 3,064,446, 11–20–62, Cl. 62—175.
Dodge, F. W., Corp.: *See*—
Gallo, Louis J., Jr. 3,068,609.
Dodge, Harry G., 1/10 to J. Stanik. Pipe burnishing apparatus. 3,050,757, 8–28–62, Cl. 15—88.
Dodge Mfg. Corp.: *See*—
Chung, Jackson. 3,023,034.
Chung, Jackson. 3,063,300.
Firth, David. 3,020,737.
Firth, David. 3,068,665.
Firth, David, and Chung. 3,027,773.
Yang, Kwang-Tzu. 3,024,628.
Dodge, Ronald D., and N. K. Perkins, to International Business Machines Corp. Single element printing mechanism. 3,050,170, 8–21–62, Cl. 197—52.
Dodge, William C. Small boat chart stowage and plotting case. 3,069,215, 12–18–62, Cl. 312—117.
Dodgen Associated Manufacturers, Inc.: *See*—
Dodgen, John N. 3,024,932.
Dodgen, John N., to Dodgen Associated Manufacturers, Inc. Compartmented feed body. 3,024,932, 3–13–62, Cl. 214—519.
Dodgen, John N. Portable feed measuring and mixing apparatus. 3,065,808, 11–27–62, Cl. 177—151.
Dodson, Raymond M.: *See*—
Bergstrom, Clarence G., and Dodson. 3,027,386.
Bergstrom, Clarence G., and Dodson. 3,029,258.
Bergstrom, Clarence G., and Dodson. 3,029,259.
Muir, Robert D., and Dodson. 3,023,229.
Papesch, Viktor, and Dodson. 3,056,783.
Dodson, Raymond M., to G. D. Searle & Co. 1-aryl-3-hydroxypropyl sulfones and processes. 3,016,403, 1–9–62, Cl. 260—607.
Dodson, Raymond M., to G. D. Searle & Co. 3α,9α-epoxy steroids of the androstand and pregnane series. 3,065,227, 11–20–62, Cl. 260—239.55.
Dodson, Raymond M., and A. H. Goldkamp, to G. D. Searle & Co. 3,17-bisoxygenated androst-2-en-1-ones and intermediates. 3,017,418, 1–16–62, Cl. 260—397.4.
Dodson, Raymond M., and R. D. Muir, to G. D. Searle & Co. 9α-hydroxy-steroids and process for their manufacture. 3,029,233, 4–10–62, Cl. 260—239.57.
Dodson, Raymond M., and P. B. Sollman, to G. D. Searle & Co. Process for the manufacture of 6-alkoxy- and 6-keto steroids and compounds obtained thereby. 3,032,565, 5–1–62, Cl. 260—397.4.
Dodson, Raymond M., and V. Papesch, to G. D. Searle & Co. 2,3-diphenyl-1,1,4-trioxo-1,2,3-thiadiazolidines. 3,037,027, 5–29–62, Cl. 260—301.
Dodson, Raymond M., and P. B. Sollman, to G. D. Searle & Co. 17α-(lower alkanoyl)oxy-2-halopregna-4,6-diene-3,20-diones. 3,055,919, 9–25–62, Cl. 260—397.4.
Dodsworth, Edward, to John Waddington, Ltd. Heat sealing of thermoplastic materials. 3,070,004, 12–25–62, Cl. 100—93.
Dodsworth, James W.: *See*—
Durgin, Douglas C., and Dodsworth. 3,051,385.
Dodsworth, James W., to Monroe Calculating Machine Co. Totalizing control means. 3,015,437, 1–2–62, Cl. 235—60.2.
Dodsworth, James W., to Monroe Calculating Machine Co. Program control for accounting machine. 3,021,054, 2–13–62, Cl. 235—60.2.

Dodsworth, James W., to Monroe Calculating Machine Co. Register control for accounting machine. 3,021,056, 2–13–62, Cl. 235—60.31.

Dodsworth, James W., to Monroe Calculating Machine Co. Carriage control of electromechanical program for accounting machine. 3,022,940, 2–27–62, Cl. 235—60.48.

Doe, Elmer F., to Pawling Rubber Corp. Resilient mat structure. 3,015,136, 1–2–62, Cl. 20—78.6.

Doebel, Karl, G. Rey-Bellet, R. Schläpfer, and H. Spiegelberg, to Hoffmann-La Roche Inc. 9-(omega-aminoalkyl)-xanthenols and 9-(omega-aminoalkylidene)-xanthenes. 3,067,209, 12–4–62, Cl. 260—335.

Doebeli, Jacob, to Luwa Ltd. Filtering means. 3,040,495, 6–26–62, Cl. 55—97.

Doedens, James D., to The Dow Chemical Co. Flame resistant poly(diphenyl)-type compositions. 3,038,871, 6–12–62, Cl. 260—37.

Doedens, James D., and E. H. Rosenbrock, to The Dow Chemical Co. Composition comprising a poly(halomethyl) diaromatic ether and a phenol, method of foaming same, and foamable product obtained therefrom. 3,047,518, 7–31–62, Cl. 260—2.5.

Doeg, Ralph W., to American Motors Corp. Refrigerating apparatus. 3,039,487, 6–19–62, Cl. 137—516.11.

Doeg, Ralph W., to American Motors Corp. Refrigerating apparatus. 3,049,285, 8–14–62, Cl. 230—206.

Doeg, Ralph W., to American Motors Corp. Refrigerating apparatus. 3,059,501, 10–23–62, Cl. 74—579.

Doelger, John P.: *See*—
Cantalupo, Francis J., De Craene, and Doelger. 3,034,371.

Doell, Walter, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Suspension polymerization of vinyl chloride in the presence of higher aliphatic unsaturated alcohols. 3,029,229, 4–10–62, Cl. 260—87.1.

Doelling, George L., and J. A. Siefker, to Wagner Electric Corp. Hydraulic brake fluid. 3,032,504, 5–1–62, Cl. 252—79.

Doelter, Gandolph. Sealing means for sliding clasp continuous fasteners. 3,030,683, 4–24–62, Cl. 24—205.1.

Doelz, Melvin L.: *See*—
Barry, George H., and Doelz. 3,024,444.

Doepken, Herbert C., to Manganese Steel Forge Co. Process of prehardening austenitic manganese steel. 3,048,505, 8–7–62, Cl. 148—137.

Doerfler, Carl F. Control valve. 3,036,599, 5–29–62, Cl. 137—624.

Doerfler, Carl F. Boat aligner. 3,064,838, 11–20–62, Cl. 214—84.

Doering, George I.: *See*—
Hays, Willard C., and Doering. 3,015,129.

Doering, Ulrich W. Fluorescent lamp. 3,024,383, 3–6–62, Cl. 313—204.

Doerpinghaus, Ernst H., to Container Patent Co., G.m.b.H. Floating tank. 3,067,712, 12–11–62, Cl. 114—74.

Doerr, Friedrich. Lock nut having tension indicating spring means. 3,030,996, 4–24–62, Cl. 151—19.

Doerr, Hewey H. Tractor attached spray apparatus. 3,038,665, 6–12–62, Cl. 239—104.

Doerries, George H., to Curtiss-Wright Corp. Rotary speed changer. 3,015,973, 1–9–62, Cl. 74—801.

Doerries, George H., and G. B. Speir, to Curtiss-Wright Corp. Transmission. 3,067,626, 12–11–62, Cl. 74—372.

Doersam, Charles H., Jr. Pulse code multiplexing systems. 3,016,516, 1–9–62, Cl. 340—147.

Doetsch, Ernst. Screw nipple connection for electrodes. 3,048,433, 8–7–62, Cl. 287—127.

Doggett, Roger H., to Polymer Processes, Inc. Blend of finely divided polyamide and polyethylene glycol. 3,052,646, 9–4–62, Cl. 260—33.2.

Doggett, Roger H., L. R. B. Hervey, and C. E. Lanyon, to John A. Manning Paper Co., Inc. Mucilage producing material. 3,019,138, 1–30–62, Cl. 127—29.

Doherty, Albert B., III: *See*—
Richardson, Bayard E. 3,068,916.

Doherty, George O., and D. H. Ballard. Apparatus for injecting or infusing fluids into patients and method of making same. 3,017,884, 1–23–62, Cl. 128—214.

Doherty, Harold A.: *See*—
Pollard, Graham H., and Doherty. 3,033,258.

Doherty, Jack R., to Reverse Circulation Core-Barrel, Inc. Core sampling apparatus. 3,066,748, 12–4–62, Cl. 175—247.

Doherty, Thomas H., to Mishawaka Rubber Co., Inc. High-traction footwear tread. 3,018,571, 1–30–62, Cl. 36—59.

Dohler, Oscar, and B. Epsztein, to Compagnie Generale de Telegraphie Sans Fil. Ladder type delay line. 3,068,432, 12–11–62, Cl. 333—31.

Dohm, Klaus: *See*—
Krieweth, Wolfgang, and Dohm. 3,040,166.

Dohmstreich, Kurt: *See*—
Wagenseil, Gottfried, and Dohmstreich. 3,021,391.

Dohr, Fredric W.: *See*—
Gilmer, Graham, Jr., and Dohr. 3,055,124.

Dohr, Manfred: *See*—
Bornemann, Dieter, Dohr, Renner, and Ziegler. 3,023,242.
Budnowski, Manfred, Lieske, and Dohr. 3,065,186.

Dohr, Manfred, C. Wulff, and B. Werdelmann, to Henkel & Cie. G.m.b.H. Detergent compositions. 3,024,197, 3–6–62, Cl. 252—117.

Dohrmann, Henry C.: *See*—
Balzer, Christian G., and Dohrmann. 3,068,628.

Dohrmann Hotel Supply Co.: *See*—
Graswich, Edward, and Cedarquist. 3,065,687.

Dohrmann Instruments Co.: *See*—
Coulson, Dale M., and Cavanagh. 3,032,493.

Dohrmann Sales Co.: *See*—
Ritchie, Edwin E. 3,033,248.

Dohring, Hans M. Patty shell baking process. 3,022,751, 2–27–62, Cl. 107—54.

Doktor, Benjamin. Terminal block construction. 3,042,896, 7–3–62, Cl. 339—198.

Dolan, Arthur W., to Sylvania Electric Products Inc. Coating of small bore articles. 3,049,482, 8–14–62, Cl. 204—181.

Dolan & Bullock Co.: *See*—
Cronan, Francis P. 3,052,966.

Dolan, James P. Coaxial cable antenna coupler. 3,060,428, 10–23–62, Cl. 343—851.

Dolan, James P., and W. M. Jordan. Detection device. 3,045,198, 7–17–62, Cl. 338—13.

Dolby, Dale P., to Ampex Corp. Means for determining tape position in relation to time. 3,037,290, 6–5–62, Cl. 33—129.

Dolby, Dale P., to Ampex Corp. Splicing apparatus with indexing means. 3,050,105, 8–21–62, Cl. 156—379.

Dolby, Ray M., to Ampex Corp. Video recording system and method and processing amplifier network. 3,029,306, 4–10–62, Cl. 178—6.6.

Dole, Marion E., to Hoover Ball and Bearing Co. Bin tilting device. 3,042,237, 7–3–62, Cl. 214—314.

Dole Refrigerating Co.: *See*—
Lasak, Edwin M., and Lauterbach. 3,042,381.

Dole Valve Co., The: *See*—
Algino, Joseph M. 3,026,932.
Algino, Joseph M. 3,032,888.
Bauerlein, Carl C. 3,021,694.
Bauerlein, Carl C. 3,026,085.
Bauerlein, Carl C. 3,027,730.
Bauerlein, Carl C. 3,061,196.
Bauerlein, Carl C. 3,068,662.
Cerveny, Frank E. 3,042,308.
Chace, Thomas B. 3,026,684.
Chace, Thomas B. 3,027,229.
Couffer, Robert W., Jr., and Algino. 3,029,324.
Couffer, Robert W., Jr., and Algino. 3,040,766.
Dahl, Robert R., and Miller. 3,031,858.
Dahl, Robert R., Erickson, and Golden. 3,062,992.
Dawson, Robert H., and Dahl. 3,021,687.
Drapeau, Harold B. 3,017,113.
Drapeau, Harold B., and Olsen. 3,027,089.
Eskin, Samuel G. 3,029,026.
Janquart, Jerry C. 3,024,618.
Janquart, Jerry C. 3,034,761.
Kraft, Ed Roy J. 3,016,916.
Lund, James K., Bauerlein, and Janquart. 3,020,727.
Malone, Robert R. 3,016,718.
Miller, Donald E. 3,020,762.
Reddi, Mullapudi M. 3,067,771.
Taylor, Wesley L. 3,023,778.
Taylor, Wesley L. 3,043,328.
Taylor, Wesley L. 3,048,023.
Voigtmann, Robert C. 3,021,695.
Voigtmann, Robert C. 3,053,059.

Dole, Warren, and F. H. Sully, to Jabsco Pump Co. Clutch. 3,053,362, 9–11–62, Cl. 192—55.

Doleman, Jack, to The Cotton Silk and Man-Made Fibres Research Association. Heat treatment of filaments, fibres, threads, films and sheet material. 3,052,989, 9–11–62, Cl. 34—57.

Doleschalek, Otto, to Zahnradfabrik Friedrichshafen Aktiengesellschaft. Driving device, especially for motor vehicles. 3,031,893, 5–1–62, Cl. 74—15.6.

Dolgorukov, Gregory S. Motor vehicle seat construction. 3,044,829, 7–17–62, Cl. 297—344.

Dolgorukov, Gregory S. Package or similar article. 3,051,304, 8–28–62, Cl. 206—45.33.

Dolister, Harold H.: *See*—
Huggins, Homer D., Morse, and Dolister. 3,045,979.

Doll, Donald P., T. S. Griffin, and J. J. Libera, to National Lead Co. Process for the sulfuric acid digestion of titaniferous iron material. 3,053,625, 9–11–62, Cl. 23—117.

Doll, Henri-Georges, to Schlumberger Well Surveying Corp. Apparatus for investigating earth formations. 3,060,373, 10–23–62, Cl. 324—1.

Dollac Corp.: *See*—
Brudney, Harry. 3,019,551.

Dollinger Corp.: *See*—
Dollinger, Lewis L. 3,026,547.
Dollinger, Lewis L. 3,026,548.

Dollinger, Kenneth: *See*—
Mercer, William R., and Dollinger. 3,045,232.
Richmond, Martin R., and Dollinger. 3,044,061.

Dollinger, Lewis L., to Dollinger Corp. Combination boat fender and life preserver. 3,026,547, 3–27–62, Cl. 9—312.

Dollinger, Lewis L., to Dollinger Corp. Combination boat fender and life preserver. 3,026,548, 3–27–62, Cl. 9—312.

Dollison, William W., to Otis Engineering Corp. Automatic reset pilot valve operator. 3,026,904, 3–27–62, Cl. 137—556.

Dollison, William W., to Otis Engineering Corp. Extension hanger. 3,032,113, 5–1–62, Cl. 166—125.

Dollison, William W., to Otis Engineering Corp. Plugging tool. 3,036,637, 5–29–62, Cl. 166—134.
Dollison, William W., to Otis Engineering Corp. Running and pulling tool. 3,051,239, 8–28–62, Cl. 166—125.
Dolliver, David M., to Boeing Airplane Co. Reversible-thrust sound suppression jet nozzles with movable ejector rings. 3,020,712, 2–13–62, Cl. 60—35.6.
Dollman, David Y. : *See*—
Newbard, Nelson J., Jr., and Dollman. 3,061,484.
Dolloff, Richard T., to Union Carbide Corp. Method and apparatus for growing crystals. 3,053,639, 9–11–62, Cl. 23—273.
Dolman, Henry J., to Brecknell, Dolman & Rogers Ltd. Turnstiles. 3,019,539, 2–6–62, Cl. 39—3.
Dolph, Ian D. Safety lamp socket. 3,020,366, 2–6–62, Cl. 200—51.16.
Dolphin, Johannes H., and J. van der Ster, to North American Philips Co., Inc. Apparatus for evaporating impurities contaminating liquid gas, for example acetylene contaminating liquid oxygen. 3,069,863, 12–25–62, Cl. 62—42.
Dolza, John : *See*—
Bouvy, Christiaan H. 3,022,775.
Dolza, John. Internal combustion engines. 3,046,952, 7–31–62, Cl. 121—194.
Dolza, John. Internal combustion engines. 3,046,953, 7–31–62, Cl. 121—194.
Dolza, John, to Fiat Motor Co. (Fiat S.p.A.). Internal combustion engines. 3,046,960, 7–31–62, Cl. 123—76.
Dolza, John, to Fiat Motor Co. (Fiat S.p.A.). Internal combustion engines. 3,046,961, 7–31–62, Cl. 123—76.
Dolza, John. Centrifugal oil cleaner vibration dampeners. 3,047,216, 7–31–62, Cl. 233—32.
Dom, Charles. Watchcase-type counter. 3,054,559, 9–18–62, Cl. 235—121.
Do-Ma Enterprises, Inc. : *See*—
Magazanik, Louis, and Dover. 3,031,889.
Domagala, Robert F. : *See*—
Rostoker, William, and Domagala. 3,060,557.
Domagk, Gerhard : *See*—
Schellhammer, Carl-Wolfgang, and Domagk. 3,040,041.
Schellhammer, Carl-Wolfgang, Petersen, and Domagk. 3,049,430.
Domagk, Gerhard, and W. Gauss. 5-alkoxy-2,3,6-trisaziridino-1,4-benzoquinone. 3,025,289, 3–13–62, Cl. 260—239.
Domagk, Gerhard, K.-W. Schellhammer, S. Petersen, and H.-B. König, to Bayer Aktiengesellschaft, Farbenfabriken. Compositions for the treatment of tuberculosis. 3,039,925, 6–19–62, Cl. 167—65.
Doman Helicopters, Inc. : *See*—
Stack, George R. 3,055,437.
Domann, Helmut, to Robert Bosch, G.m.b.H. Impulse controlled speed-responsive relay. 3,053,243, 9–11–62, Cl. 123—179.
Domanski, Stanislaus M., to British Dielectric Research Ltd. Ceramic dielectric materials and capacitors incorporating such materials. 3,069,276, 12–18–62, Cl. 106—39.
Dombrow, Bernard, and A. Lerner, to United States of America, Atomic Energy Commission. Rigid cellular plastic products and process for producing same. 3,062,757, 11–6–62, Cl. 260—2.5.
Dombrow, Bernard A., and J. H. Nichols, to Nopco Chemical Co. Preparation of rigid polyesterurethane foam. 3,032,-517, 5–1–62, Cl. 260—2.5.
Dombrow, Bernard A., and A. Lerner, to Nopco Chemical Co. Stabilization of polyurethane resin foams. 3,067,149, 12–4–62, Cl. 260—2.5.
Dombrow, Bernard A., and A. Lerner, to Nopco Chemical Co. Stabilization and polyurethane resin foams. 3,067,150, 12–4–62, Cl. 260—2.5.
Dome, Robert B., to General Electric Co. Amplifier dissipation reducing system. 3,039,061, 6–12–62, Cl. 330—10.6.
Dome, Robert B., to General Electric Co. Suppression of harmonics in detection. 3,040,261, 6–19–62, Cl. 329—203.
Dome, Robert B., to General Electric Co. Amplitude modulation broadcast stereophonic system. 3,068,323, 12–11–62, Cl. 179—15.
Domeisen, Karl A., to Avco Corp. Retraction volume gage. 3,045,482, 7–24–62, Cl. 73—149.
Domek, John. Inertial switch for automobiles. 3,070,675, 12–25–62, Cl. 200—61.45.
Domenicali, Charles A., to Minneapolis-Honeywell Regulator Co. Metal purification procedures. 3,046,164, 7–24–62, Cl. 148—1.6.
Domenighetti, Costante. Mixer driven and supported by wheels of flexible material. 3,016,232, 1–9–62, Cl. 259—177.
Domenighetti, Costante. Finisher for laying and tamping bituminous complomerates over road pavings. 3,035,499, 5–22–62, Cl. 94—46.
Domeny, Steven, to Crane Packing Co. Tape dispenser. 3,050,853, 8–28–62, Cl. 30—131.
Domer, Russell V. Tiltable spool stand. 3,069,110, 12–18–62, Cl. 242—129.6.
Domgard, Robert E. Installation system for electric heating cable. 3,050,607, 8–21–62, Cl. 219—19.
Domigan, Kenneth W., to Whirl-A-Seal Corp. Bag closer. 3,066,846, 12–4–62, Cl. 229—63.
Domingos, Karl K., Jr., G. T. Powell, Jr., and J. B. Malaspina, to United States of America, Navy. Depth charge exploder mechanism. 3,015,270, 1–2–62, Cl. 102—7.
Dominguez, Manuel J. : *See*—
Howells, Paul W., and Dominguez. 3,060,380.
Dominik, Francis A., to Colgate-Palmolive Co. Inhibiting rusting of aerosol type containers. 3,020,122, 2–6–62, Cl. 21—2.7.
Dominion Bridge Co., Ltd. : *See*—
Cape, Richard A. G. 3,029,974.
Dominion Corset Co., Ltd. : *See*—
Robitaille, Robert, and Dubois. 3,032,775.
Dominion Electric Corp. : *See*—
Crease, Pierre L., and Sutton. 3,065,326.
Fillweber, Marcellus I. 3,064,951.
Dominion Engineering Works Ltd. : *See*—
Berlyn, Martin J. 3,044,744.
Berlyn, Martin J. 3,044,925.
Boyd, Lawrence M. 3,030,072.
MacDonald, Ian J. 3,048,874.
Sproule, Robert S. 3,051,441.
Dominion Foundries and Steel Ltd. : *See*—
Linke, Arthur G. 3,031,703.
Dominion Lock Co. Ltd. : *See*—
White, Clemens. 3,058,333.
Dominion Tar and Chemical Co. : *See*—
Tomlinson, George H., II. 3,037,628.
Dominion Tar & Chemical Co. Ltd. : *See*—
Segur, Asa B. 3,037,644.
Dominus (England) Ltd. : *See*—
Arnold, Frederick C., Leadley, and Wilson. 3,038,348.
Domizi, Dante J., E. Holasek, T. H. Smith, and P. E. Lannan, to Hammermill Paper Co. Material inspecting device. 3,058,004. 10–9–62, Cl. 250—219.
Domizi, Dario, and G. E. Cranch, to Union Carbide Corp. Reinforcement of riveted electrical connections. 3,056,057. 9–25–62, Cl. 310—249.
Dommann, Gunther, to Gewerkschaft Eisenhutte Westfalia. Conduit provided with movable fitting. 3,019,813, 2–6–62, Cl. 37—580.
Domoradzki, Stanley. Truce with adjustable wheel mounting for axial center of gravity loading. 3,063,730, 11–13–62, Cl. 280—47.21.
Donabin, Claude J., to Compagnie des Machines Bull (Societe Anonyme). Coded hammer control in selective printing machine. 3,043,213, 7–10–62, Cl. 101—93.
Donadio, Vincent J., to Hewitt-Robins Inc. Troughing conveyor belt support. 3,070,219, 12–25–62, Cl. 198—192.
Donahue, John L., to Corn Products Co. Chocolate drink base and method. 3,053,663, 9–11–62, Cl. 99—26.
Donahue, Lawrence E., to Minneapolis-Honeywell Regulator Co. Air conditioning control apparatus having temperature and pressure control. 3,058,664, 10–16–62, Cl. 236—13.
Donahue, Robert J. : *See*—
Corrado, Victor M., and Donahue. 3,061,182.
Donahue, Robert J., and S. J. Applebaum, to Mergenthaler Linotype Co. Tape perforating machine. 3,056,545, 10–2–62, Cl. 234—1.
Donahue, Vincent J. Caps. 3,016,545, 1–16–62, Cl. 2—199.
Donahue, William J. : *See*—
Robertson, Anthony E., Donahue, and Butler. 3,038,407.
Donaldson, Francis, L. L. Snedden, and R. G. Cone, to Mason & Hanger-Silas Mason Co. Apparatus for hydraulic mining. 3,030,086, 4–17–62, Cl. 262—1.
Donaldson, George R., and V. Haensel, to Universal Oil Products Co. Hydrogenation of aromatic hydrocarbons. 3,054,833, 9–18–62, Cl. 260—667.
Donaldson, Leonhart N., to West Penn Closure Corp. Apparatus for assembling closure tips on plastic dispensing spouts for liquid containers. 3,024,523, 3–13–62, Cl. 29—208.
Donaldson, Robert E., W. C. Offutt, and T. Rice, to Gulf Research & Development Co. Combined processes of reforming and lubricating oil hydrogenation. 3,062,735, 11–6–62, Cl. 208—57.
Donaldson, Sabins T. Power means. 3,034,490, 5–15–62, Cl. 123—42.
Donan, John F., R. R. Powell, and C. A. Christoff, to Clary Corp. Calculating apparatus. 3,028,085, 4–3–62, Cl. 235—159.
Donaruma, Lorraine G., to E. I. du Pont de Nemours and Co. Polyoxime esters. 3,026,303, 3–20–62, Cl. 260—78.4.
Donaruma, Lorraine G., to E. I. du Pont de Nemours and Co. Acrylyl derivatives of β-diketones and their polymers. 3,044,985, 7–17–62, Cl. 260—63.
Donaruma, Lorraine G., to E. I. du Pont de Nemours and Co. Extraction of uranium from aqueous acidic solution by a polymer characterized by the appearance of repeat units containing ortho hydroxy aromatic carboxylic acid functions. 3,052,515, 9–4–62, Cl. 23—14.5.
Donath, Bernhard, to Siemens & Halske Aktiengesellschaft. Method of narrow band transmission of radar panorama screen pictures. 3,069,676, 12–18–62, Cl. 343—5.
Donath, Edwin W., to Illinois Testing Laboratories Inc. Fail-safe circuit for controlled apparatus. 3,027,496, 3–27–62, Cl. 317—133.5.
Donath, Ernest E., to Koppers Co., Inc. External heating device. 3,064,640, 11–20–62, Cl. 126—263.
Donato, Giuseppe. Fountain pen. 3,064,625, 11–20–62, Cl. 120—51.
Donau-Pharmazie Gesellschaft m.b.H. : *See*—
Zellner, Hugo, Pailer, and Pruckmayr. 3,028,384.
Doncaster, Daniel P., to Columbia Broadcasting System, Inc. Phonograph pickup. 3,044,783, 7–17–62, Cl. 274—23.
Donceel, Jules L. J., and M. Mus, to International Standard Electric Corp. Electrical multiple relay unit using sealed reed contacts. 3,030,468, 4–17–62, Cl. 200—87.

Dondero, Mark J.: *See*—
Whiston, Donald, and Dondero. 3,049,069.
Donelson, Harlan J., Jr. Material spreading mechanism. 3,045,840, 7–24–62, Cl. 214—17.
Doner, John T., to Whirlpool Corp. Home appliance. 3,040,732, 6–26–62, Cl. 126—191.
Doner, John T., and J. W. Lannert, to Whirlpool Corp. Thermostatic control of gas range burners. 3,033,463, 5–8–62, Cl. 236—1.
Dong, Walter: *See*—
Carlson, George J., Dong, Higgins, and Wilcoxen. 3,066,127.
Donham, James E., to The Crossett Chemical Co., a Division of Crossett Co. Oil well drilling fluids. 3,049,491, 8–14–62, 8–14–62, Cl. 252—8.5.
Donini, Domenico C. Apparatus for the intermittent and adjustable feeding of fuel oil burners for brickkilns. 3,021,890, 2–20–62, Cl. 158—36.3.
Donker, Robert J., to Chrysler Corp. Electrical gauge. 3,054,-054, 9–11–62, Cl. 324—155.
Donkle, Lucius B., Jr.: *See*—
Parlasca, Edwin W., and Donkle. 3,029,094.
Don-Lan Electronics, Inc.: *See*—
Lanctot, Donald H. 3,019,322.
Lanctot, Donald H. 3,019,402.
Lanctot, Donald H. 3,022,474.
Lanctot, Donald H. 3,036,282.
Donn Products Inc.: *See*—
Brown, Donald A. 3,023,660.
Brown, Donald A. 3,055,466.
Donna, Claude A. Manure spreader. 3,070,375, 12–25–62, Cl. 275—8.
Donnan, Owen H., to Boat Stabilizers Inc. Boat stabilizer. 3,029,767, 4–17–62, Cl. 114—121.
Donnaud, L. J.: *See*—
Courtney, Joseph F. 3,052,024.
Donnell, Lawrence E., and L. Q. Krasin; said Krasin assor. to Lenkurt Electric Co., Inc. Method of interconnecting electrical apparatus. 3,065,524, 11–27–62, Cl. 29—155.5.
Donnelley, R. R., & Sons Co.: *See*—
Boule, George P. 3,043,586.
Donnelly, Harold F.: *See*—
Voigtmann, Edward H., Donnelly, and Lamb. 3,017,317.
Donnelly, John F., and J. D. Van Putten, Jr., to Donnelly Mirrors, Inc. Fringe comparator. 3,065,663, 11–27–62, Cl. 88—14.
Donnelly Mirrors, Inc.: *See*—
Donnelly, John F., and Van Putten. 3,065,663.
Donnelly, Ralph G., R. G. Gilliland, and G. M. Slaughter, to United States of America, Atomic Energy Commission. Brazing alloys. 3,022,162, 2–20–62, Cl. 75—165.
Donnelly, William R.: *See*—
Vance, John R., and Donnelly. 3,060,985.
Donner, Verne P., to International Harvester Co. Seal between relatively rotating members. 3,023,014, 2–27–62, Cl. 277—78.
Donner, Verne P., to International Harvester Co. Hydraulic apron and ejector gate mechanism for scrapers. 3,039,-212, 6–19–62, Cl. 37—129.
Donner, Walter: *See*—
Arthur, Edwin P., and Donner. 3,070,539.
Donner, Walter, and D. W. Carle, to Beckman Instruments, Inc. Temperature regulator for chromatographs. 3,062,-037, 11–6–62, Cl. 73—23.
Donnet, Jean-Baptiste A., to Societe d'Etude des Industries du Petrole Au Port de Strasbourg (Societe a Responsabilite Limitee). Water-soluble carbon black and production thereof. 3,023,118, 2–27–62, Cl. 106—307.
Donnison, James O., to Air Exchangers Ltd. Furnace and heat exchanger for heating gases. 3,018,773, 1–30–62, Cl. 126—110.
Donofrio, Alfonso M., to Silver Creek Precision Corp. Container handling means. 3,020,939, 2–13–62, Cl. 141—169.
Donofrio, Alfonso M., to Silver Creek Precision Corp. Machine for filling open topped containers with measured charges. 3,036,604, 5–29–62, Cl. 141—169.
D'Onofrio, Anthony, to Royal McBee Corp. System for automatically controlling line feeding mechanism in typewriters or like machines. 3,017,980, 1–23–62, Cl. 197—114.
D'Onofrio, Anthony, to Royal McBee Corp. Systems for automatically controlling line feeding and tabulating mechanisms in typewriters or like machines. 3,020,996, 2–13–62, Cl. 197—133.
Donofrio, Arthur A.: *See*—
Chamberlain, Robert J., and Donofrio. 3,059,784.
Donofrio, Thomas F., to Silver Creek Precision Corp. Package for an individual portion. 3,021,001, 2–13–62, Cl. 206—56.
Donoho, Paul L., to Bell Telephone Laboratories, Inc. Spin stabilization of earth satellites. 3,048,351, 8–7–62, Cl. 244—1.
Donohue, Anthony J. Sectional boilers. 3,051,145, 8–28–62, Cl. 122—225.
Donohue, John F.: *See*—
Cross, Radley. 3,065,310.
Donohue, Walter A., to The Electric Storage Battery Co. Porous sintered plate. 3,053,925, 9–11–62, Cl. 136—70.
Donohue, William J. Methods and apparatus for continuous interaction of solids and fluids. 3,019,079, 1–30–62, Cl. 23—1.
Donovan, Brendan J. Checkout stand. 3,028,931, 4–10–62, Cl. 186—1.
Donovan, Edward F. Slide calculator. 3,045,908, 7–24–62, Cl. 235—89.
Donovan, John J., to United States of America, Air Force. Radar anti-jamming device. 3,039,090, 6–12–62, Cl. 343—5.
Donovan, Joseph J., H. Heinemann, and T. H. Milliken, Jr., to Air Products and Chemicals, Inc. Tobacco composition. 3,034,932, 5–15–62, Cl. 131—17.
Donovan, Marion. Hosiery clasp. 3,067,478, 12–11–62, Cl. 24—243.
Donrico Inc.: *See*—
Transport, Felix. 3,027,996.
Donsky, Abraham. Series lamp socket. 3,019,407, 1–30–62, Cl. 339—155.
Dontje, Abraham J.: *See*—
Rinse, Jacobus, and Dontje. 3,056,725.
Doody, Gerald E., to International Business Machines Corp. Transducer apparatus. 3,069,667, 12–18–62, Cl. 340—174.1.
D'Ooge, Charles L., to United States of America, Navy. Apparatus for cutting off thrust of a rocket motor. 3,052,-091, 9–4–62, Cl. 60—35.6.
Doolen, Orville K.: *See*—
Coggeshall, Norman D., Doolen, and Wyckoff. 3,059,478.
Dooley, Jerome, to Bartelt Engineering Co., Inc. Mechanism for dispensing weighed quantities of material. 3,067,826, 12–11–62, Cl. 177—58.
Dooley, Philip C. Level attachment for chain saw. 3,026,-918, 3–27–62, Cl. 143—32.
Dooley, Philip G., and A. D. Tinkelenberg, to United Aircraft Corp. Propellant injector device. 3,050,942, 8–28–62, Cl. 60—39.46.
Dooley, Philip G., and L. M. Handley, to United Aircraft Corp. Rocket motor starter. 3,062,004, 11–6–62, Cl. 60—35.6.
Dooley, William P., to American Viscose Corp. Method for producing viscose rayon. 3,063,789, 11–13–62, Cl. 18—54.
Dooley, William P., and E. L. Coe, to American Viscose Corp. Liquid blending system. 3,023,764, 3–6–62, Cl. 137—98.
Doolittle, Donald B., to All American Engineering Co. Controlled high-speed highway. 3,067,697, 12–11–62, Cl. 104—246.
Doolittle, Howard D.: *See*—
Bayor, Gordon F., Doolittle, and Brunhart. 3,069,548.
Doom, Lewis G.: *See*—
Oakes, Earle T., Doom, McElligott, and Sundheim. 3,066,707.
Doonan, William. Arrowhead construction. 3,022,077, 2–20–62, Cl. 273—106.5.
Doop, Russell L. Device for processing photographic prints. 3,035,500, 5–22–62, Cl. 95—1.
Door, Wesley R. Finger ring holder. 3,055,329, 9–25–62, Cl. 113—99.
Doorenbos, Norman J.: *See*—
Dersch, Fritz, and Doorenbos. 3,023,102.
Doorman, Ferdinand A.: *See*—
Noorduyn, Arnold, and Doorman. 3,068,184.
Dopera, Adolph. Supports for ceramic ware. 3,020,617, 2–13–62, Cl. 25—153.
Doppstadt, Adolf: *See*—
Siemer, Harm, and Doppstadt. 3,043,841.
Dopyera, Harriet B. Shoulder strap pads. 3,050,734, 8–28–62, Cl. 2—2.
Doran, Michael D.: *See*—
Pietrangeli, James D., and Doran. 3,028,178.
Doray Lamp Co., Inc.: *See*—
Magazanik, Louis. 3,032,183.
Doré, Franklyn, and C. A. Lyle, to The Air Preheater Corp. Rotor adjusting arrangement. 3,024,005, 3–6–62, Cl. 257—269.
Doremus, Charles W. Anchoring means. 3,057,024, 10–9–62, Cl. 20—92
Doremus, John A., to Aircraft Radio Corp. Automatic keying system. 3,047,657, 7–31–62, Cl. 178—17.
Doren, Mark H., and F. J. Hormuth, to Sackner Products, Inc. Luggage trim. 3,058,554, 10–16–62. Cl. 190—49.
Dorenbos, Richard E., and J. W. Tomka, to Nordberg, Mfg. Co. Multiple opening hot plate press. 3,041,666, 7–3–62, Cl. 18—17.
Dorendorf, Heinz: *See*—
Siebertz, Karl, Henker, and Dorendorf. 3,035,183.
Dorey, George B., to Enterprise Railway Equipment Co. Pneumatic discharge hopper car. 3,020,092, 2–6–62, Cl. 302—52.
Dorey, George B., to Enterprise Railway Equipment Co. Hopper outlet construction. 3,020,093, 2–6–62, Cl. 302—52.
Dorey, George B., to Enterprise Railway Equipment Co. Sliding closure hopper outlet construction for railway cars. 3,055,315, 9–25–62, Cl. 105—253.
Dorey, Michael J., I. L. S. Mitchell, D. W. Rule, and C. Walker, to Glaxo Laboratories Ltd. Production of griseofulvin. 3,069,329, 12–18–62, Cl. 195—81.
Dorf, Richard H., to Kinsman Mfg. Co., Inc. Electrical musical instruments. 3,022,696, 2–27–62, Cl. 84—1.26.
Dorf, Richard H., to Kinsman Mfg. Co., Inc. Electrical musical instrument. 3,040,612, 6–26–62, Cl. 84—1.17.
Dörfelt, Christoph: *See*—
Frey, Hans H., and Dörfelt. 3,021,302.

Dorflinger, Glen V.: *See*—
Stevenson, William E., Jr., and Dorflinger, 3,066,759.
Dorfman, Don. Sectional housing for air conditioning. 3,042,157, 7–3–62, Cl. 189—34.
Dorfman, Edwin: *See*—
Weil, Edward D., Dorfman, and Newcomer. 3,029,137.
Weil, Edward D., Dorfman, and Newcomer. 3,048,483.
Dorfman, Edwin, E. D. Weil, and J. S. Newcomer, to Hooker Chemical Corp. Preparation of 2,3,6-trichloro-phenylacetamide. 3,021,369, 2–13–62, Cl. 260—558.
Dorfman, Ralph I.: *See*—
Gut, Marcel, and Dorfman. 3,061,606.
Doriat, Martin: *See*—
Bergmeister, Eduard, Heckmaier, and Doriat. 3,046,609.
Doriat, Martin, J. Eckart, and J. Heckmaier, to Wacker-Chemie, G.m.b.H. Process and apparatus for granulating and forming plastic masses. 3,025,565, 3–20–62, Cl. 18—12.
Dorion, George H.: *See*—
Burkhard, Herbert, and Dorion. 3,032,516.
Dorion, George H., and H. Burkhard, to American Cyanamid Co. Polymerization promoter system for water-soluble polymers. 3,061,595, 10–30–62, Cl. 260—80.5.
Dorken & Mankel K.G., Firma: *See*—
Bomm, Heinz. 3,050,769.
Dorkins, Evan E., to Young Spring & Wire Corp. Material handling apparatus. 3,033,380, 5–8–62, Cl. 212—67.
Dorkins, Evan E., to Young Spring & Wire Corp. Trailer tractor for rail-highway freight transfer equipment. 3,057,499, 10–9–62, Cl. 214—653.
Dorkins, Evan E., and P. D. Gernhardt, to Young Spring & Wire Corp. Quick coupling apparatus. 3,034,587, 5–15–62, Cl. 172—274.
Dorl, Francis J. L. Tapered ball bearing. 3,070,412, 12–25–62, Cl. 308—174.
Dorlars, Alfons: *See*—
Pütter, Rolf, Dorlars, and Enders. 3,029,123.
Dormeyer, Albert F.: *See*—
Fisher, Hardin Y. 3,021,456.
Fisher, Hardin Y. 3,032,694.
Fisher, Hardin Y., and Mamlok. 3,054,935.
Yatsushiro, Kenji. 3,021,457.
Dormeyer Corp.: *See*—
Malz, Leo, and Schwaneke. 3,022,720.
Schwaneke, Fred C. 3,025,384.
Dorn, Hans, to Acrow-Wolff Gesellschaft mit beschrankter Haftung, Firma. Scaffold for supporting formwork, particularly sliding or climbing molds. 3,045,313, 7–24–62, Cl. 25—131.
Dornbusch, Aaron P., and J. E. Mekota, Jr., to Minneapolis-Honeywell Regulator Co. Data processing apparatus. 3,019,417, 1–30–62, Cl. 340—172.5.
Dornhoefer, Edna M.: *See*—
Dornhoefer, Warren J. 3,041,551.
Dornhoefer, Warren J., deceased, by E. M. Dornhoefer, administratrix, to Warren Mfg. Co. Inc. Electric current inverter. 3,041,551, 6–26–62, Cl. 331—75.
Dornhoefer, Warren J., to The Warren Mfg. Co., Inc. Telemetering system. 3,044,046, 7–10–62, Cl. 340—184.
Dornhoefer, Warren J., to The Warren Mfg. Co., Inc. Transistor switching amplifier. 3,047,736, 7–31–62, Cl. 307—88.5.
Dornier, Claudius, Jr., to Dornier-Werke G.m.b.H., Firma. Fuselage frame. 3,048,355, 8–7–62, Cl. 244—119.
Dornier, Peter, to Dornier-Werke G.m.b.H. Multiple drive for aircraft having wings provided with transverse flow blowers. 3,065,928, 11–27–62, Cl. 244—10.
Dornier, Peter, E. Jager, and K. Wiedemer, to Dornier-Werke G.m.b.H. Airplane adapted to start and land on an air cushion. 3,070,327, 12–25–62, Cl. 244—12.
Dornier-Werke G.m.b.H.: *See*—
Dornier, Claudius, Jr. 3,048,355.
Dornier, Peter. 3,065,928.
Dornier, Peter, Jager, and Wiedemer. 3,070,327.
Max, Heinz. 3,061,244.
Dorosz, Adolph S.: *See*—
Baker, Willard L., Dorosz, and Stewart. 3,024,480.
Dorosz, Adolph S., and L. F. Stanton, to United Shoe Machinery Corp. Heel attaching machines. 3,044,086, 7–17–62, Cl. 12—126.
Dorosz, Adolph S., and L. F. Stanton, to United Shoe Machinery Corp. Heel attaching machines. 3,048,862, 8–14–62, Cl. 12—1.
Dorr-Oliver Inc.: *See*—
De Bie, Wilhelmus P. 3,036,354.
Halbach, Ralph H. 3,036,760.
Julkola, Walfred W. 3,047,365.
Lambeth, George F. 3,036,713.
Piccardo, Jack E. 3,030,892.
Rabbitts, Leonard C. 3,059,778.
Schreiber, Charles A. 3,036,716.
Dorrance, William A.: *See*—
Ratcliff, Karl A., Dorrance, and Towey. 3,062,711.
Ratcliff, Karl A., Dorrance, and Towey. 3,066,073.
Towey, John P., Van Wyke, Ratcliff, and Dorrance. 3,027,229.
Dörries, O., A.G.: *See*—
Winter, Rudolf. 3,042,229.
Dorsch, Neal M. Means for hitching agricultural implements to a tractor. 3,038,741, 6–12–62, Cl. 280—412.
Dorschner, Kenneth P.: *See*—
Willard, Joe R., and Dorschner. 3,020,142.
Dorschner, Kenneth P., and J. R. Willard, to FMC Corp. Method for killing weed seeds in soil. 3,034,881, 5–15–62, Cl. 71—2.7.
Dorschner, Oskar: *See*—
Herbert, Wilhelm, Gross, and Dorschner. 3,069,249.
Weittenhiller, Hellmuth, Bieger, Schoß, Herbert, Dorschner, and Gross. 3,069,250.
Dorset-Rex, Inc.: *See*—
Levine, Sol. 3,044,612.
Dorsett, Clarence T. Anchor line retainers. 3,045,634, 7–24–62, Cl. 114—210.
Dorsett, Edgar A. Artificial fishing lure. 3,044,207, 7–17–62, Cl. 43—42.31.
Dorsett, James W., Jr.: *See*—
Tronslin, Cyril B., Sweeney, Brede, and Dorsett. 3,023,280.
Dorsey Drip Regulator Corp.: *See*—
Ruhl, Edmund W., Jr. 3,026,902.
Dorsey, William J., to International Latex Corp. Deposited latex articles. 3,043,312, 7–10–62, Cl. 128—521.
Dorsey, William R., and R. E. Kalbaugh, to Vacu-Dry Co. Art of dehydrating apples. 3,018,559, 1–30–62, Cl. 34—28.
Dorsey, William R., and S. I. Strashun, to Vacu-Dry Co. Method for making dehydrated apples. 3,049,426, 8–14–62, Cl. 99—92.
Dorsey, William R., and S. I. Strashun, to Vacu-Dry Co. Process of dehydration. 3,060,037, 10–23–62, Cl. 99—204.
Dorsman, Adrian K.: *See*—
Evans, Walter R., and Dorsman. 3,070,712.
Dorst, Richard W., to Textron Inc. Swing-over windshield for motorboats. 3,021,535, 2–20–62, Cl. 9—1.
Dorstewitz, Virgil: *See*—
Cayo, Edward L. 3,042,003.
Dortmann, Heinz A.: *See*—
Wedemeyer, Karlfried, Kleb, Dortmann, and Delfs. 3,066,005.
Dortmund-Horder Huttenunion Aktiengesellschaft: *See*—
Harders, Fritz. 3,022,059.
Harders, Fritz. 3,027,150.
Harders, Fritz. 3,033,550.
Knuppel, Helmut. 3,062,523.
Knuppel, Helmut, and Brotzmann. 3,056,595.
Dortort, Isadore K., to I-T-E Circuit Breaker Co. Current balancing reactors. 3,020,415, 2–6–62, Cl. 307—58.
Dortort, Isadore K., to I-T-E Circuit Breaker Co. Saturable balancing reactors for rectifier systems. 3,042,849, 7–3–62, Cl. 321—27.
Dortort, Isadore K., to I-T-E Circuit Breaker Co. Current balancing iron construction. 3,050,634, 8–21–62, Cl. 307—58.
Dortort, Isadore K., to I-T-E Circuit Breaker Co. Controlled bypass circuit. 3,058,048, 10–9–62, Cl. 321—48.
Dorweiler, Raymond: *See*—
Stoneberg, Fred J., and Dorweiler. 3,029,864.
Dory, Jacques: *See*—
Renaut, Jean-Jacques, and Dory. 3,052,115.
Dosal, Martin R. Traffic lights for controlling the flow of traffic at a traffic crossing. 3,022,490, 2–20–62, Cl. 340—120.
Dosal, Martin R. Traffic lights. 3,022,491, 2–20–62, Cl. 340—133.
Dosal, Martin R. Apparatus for pressing garments. 3,048,310, 8–7–62, Cl. 223—70.
Dosal, Martin R. Apparatus for pressing shirts. 3,066,839, 12–4–62, Cl. 223—67.
Dosamatic Dropper Corp.: *See*—
Ballin, Gene. 3,020,938.
Dosch, Thomas J., to Reeves Instrument Corp. Digitally controlled coarse-fine positioning system. 3,064,168, 11–13–62, Cl. 318—28.
Dosie, Ernest F. Exhaust filtering and after burner, carbon and alkali sludge removal units. 3,032,967, 5–8–62, Cl. 60—30.
Dosker, Cornelius D., to Gamble Bros., Inc. Method of and apparatus for compressing and densifying a bowling pin impact zone. 3,024,819, 3–13–62, Cl. 144—320.
Dosker, Cornelius D., to Conch International Methane Ltd. Means and method for mounting prefabricated panels of insulation. 3,026,577, 3–27–62, Cl. 20—4.
Dosker, Cornelius D., to Conch International Methane Ltd. Modulator insulation panel and use. 3,030,669, 4–24–62, Cl. 20—4.
Dosker, Cornelius D., to Conch International Methane Ltd. Means for moving extremely cold liquids. 3,042,080, 7–3–62, Cl. 138—100.
Dosker, Cornelius D., to Gamble Brothers, Inc. Method of making bowling pins and segments thereof. 3,063,485, 11–13–62, Cl. 144—315.
Doss, Richard C.: *See*—
Bost, Howard W., and Doss. 3,055,171.
Sammons, George D., and Doss. 3,024,143.
Doss, Richard C., to Phillips Petroleum Co. Monopropellants. 3,051,538, 5–1–62, Cl. 60—35.4.
Doss, Richard C., to Phillips Petroleum Co. Stabilized nitric acid. 3,055,739, 9–25–62, Cl. 23—157.
Doss, Richard C., and W. B. Reynolds, to Phillips Petroleum Co. Monopropellants containing quaternary ammonium compounds. 3,018,619, 1–30–62, Cl. 60—35.4.
Doss, Richard C., and J. P. Blackwell, to Phillips Petroleum Co. Stabilized nitric acid. 3,019,081, 1–30–62, Cl. 23—157.

Doss, Richard C., and H. W. Bost, to Phillips Petroleum Co. Method for the preparation of N,N,N',N',N'',N'' hexasubstituted 1,2,3-triaminopropanes. 3,051,752, 8–28–62, Cl. 260—570.5.

Doss, Roger C. Extension ladder. 3,019,851, 2–6–62, Cl. 182—111.

Dossert Mfg. Corp.: *See*—
Gunthel, Alfred B., Jr. 3,023,990.

Dostal, Clara A. and F.; said F. Dostal assor. to said C. A. Dostal. Electrically propelled household devices. 3,056,-152, 10–2–62, Cl. 15—49.

Dostal, Clara A. and F., said F. Dostal, assor. to said C. A. Dostal. Electrically propelled household device. 3,061,-858, 11–6–62, Cl. 15—49.

Dostal, Frank: *See*—
Dostal, Clara A. and F. 3,056,152.
Dostal, Clara A. and F. 3,061,858.

Doster, Philip M. Wedge on a tooth band for distally guiding an eruptive tooth. 3,034,215, 5–15–62, Cl. 32—14.

Dotter, John H. Cushioned hydraulic check valve. 3,044,-487, 7–17–62, Cl. 137—514.

Dotter, Paul, and H. J. Schwerdhofer, to Fichtel & Sachs A.G. Coaster hub. 3,034,618, 5–15–62, Cl. 192—6.

Dotti, Euterio L. Apparatus for conveying roving in a textile machine. 3,020,598, 2–13–62, Cl. 19—65.

Dotto, Gianni A., to The Dayton Steel Foundry Co. Automatic brake adjusting mechanism. 3,064,765, 11–20–62, Cl. 188—73.

Dotto, Gianni A., to The Dayton Steel Foundry Co. Automatic brake adjusting mechanisms. 3,064,768, 11–20–62, Cl. 188—152.

Doty, Eric: *See*—
Childrey, Henry M., Jr., and Doty. 3,017,328.

Doty, George I.: *See*—
Nelson, James F., Hunt, and Doty. Re. 25,175.

Doty, J. T., R. T. and P. E. Pipe clamp for trimming machines. 3,032,331, 5–1–62, Cl. 269—34.

Doty, John T. Automatic pipe handling tongs. 3,068,036, 12–11–62, Cl. 294—104.

Doty, Joseph C.: *See*—
Bradmiller, Edwin W., and Doty. 3,037,665.

Doty, Luther L., Jr., and O. O. Smith, III, to Moore-Handley Hardware Co., Inc. Retractable supports for cargo. 3,063,667, 11–13–62, Cl. 248—150.

Doty, Pierce E.: *See*—
Doty, John T., R. T. and P. E. 3,032,331.

Doty, Reynolds T.: *See*—
Doty, John T., R. T. and P. E. 3,032,331.

Doty, Roger F., to The Maytag Co. Clothes dampening apparatus. 3,022,580, 2–27–62, Cl. 34—60.

Doty, William E. N., to Continental Oil Co. Compositing sequentially produced signals. 3,065,453, 11–20–62, Cl. 340—15.5.

Dotzenroth, Gloria B.: *See*—
Dotzenroth, Paul N. 3,015,921.

Dotzenroth, Paul N., deceased (by G. B. Dotzenroth and T. E. Holloran, executors), to Baker Engineering Corp. Packaging apparatus. 3,015,921, 1–9–62, Cl. 53—171.

Dotzenroth, Paul N., to Alton Box Board Co. Can pack. 3,015,923, 1–9–62, Cl. 53—186.

Dotzenroth, Paul N., to Baker Engineering Corp. Labeling apparatus. 3,026,238, 3–20–62, Cl. 156—571.

Double A Products Co.: *See*—
Loup, Ronald L. 3,018,796.
Loup, Ronald L. 3,036,433.
Olmsted, Peter B. 3,026,856.
Pippenger, John J. 3,022,794.
Pippenger, John J. 3,049,768.

Double Envelope Corp.: *See*—
Argabright, William S. 3,026,019.

Double, Hugh S.: *See*—
Masters, Kenneth W., Grant, and Double. 3,059,121.

Doubleday, Ralph S., and A. W. Siman, to Specialties Development Corp. Airborne compressor system. 3,054,552, 9–18–62, Cl. 230—2.

Doucette, Edward I., to Bell Telephone Laboratories, Inc. Semiconductor switching apparatus. 3,035,186, 5–15–62, Cl. 307—88.5.

Doucette, Edward I., and R. M. Ryder, to Bell Telephone Laboratories, Inc. Protected semiconductor device and method of making it. 3,059,158, 10–16–62, Cl. 317—234.

Doucette, Lionel J., to General Electric Co. Ceramic body and method of making the same. 3,019,116, 1–30–62, Cl. 106—46.

Douchet, Florimond: *See*—
Blanchard, Jean, and Douchet. 3,067,372.

Dougharty, Marvin E. Radio transmitting apparatus and methods. 3,065,433, 11–20–62, Cl. 332—38.

Dougherty, Emery W., to The L. D. Caulk Co. Dental cement material. 3,047,408, 73–1–62, Cl. 106—35.

Dougherty, Howard K. Cigarette dispenser and lighter. 3,042,253, 7–3–62, Cl. 221—145.

Dougherty, Patrick F., to Sun Oil Co. Underground storage of hydrocarbons. 3,063,246, 11–13–62, Cl. 61—.5.

Doughman, Ferman C.: *See*—
Bartos, John, Borkowsoi, and Doughman. 3,047,897.
Belicka, Michael E., Borkoski, and Doughman. 3,039,130.

Doughty, Joseph B., to West Virginia Pulp and Paper Co. Drilling mud conditioner. 3,020,232, 2–6–62, Cl. 252—8.5.

Douglas Aircraft Co., Inc.: *See*—
Burton, Edward F. 3,028,130.
Curtis, Harold S. and J. C., Divola, Maletz, Morris, and Schiltz. 3,048,356.
Divola, John M., and Schaufele. 3,067,970.
Gwynne, George R. 3,035,952.
Hitt, William C. 3,058,338.
Maddock, Robert W. 3,016,661.
Moreton, Douglas H. 3,036,012.
Petersen, Thorvald K. 3,052,483.
Trumpy, Jay W. 3,036,269.
Van Dyke, William D. 3,045,075.
Watson, Jack H. 3,048,723.
Wood, Lorin A. 3,048,413.

Douglas, Alvin P., to The Murray Ohio Mfg. Co. Method of manufacturing a brazed tubular bicycle steering fork assembly. 3,016,606, 1–16–62, Cl. 29—480.

Douglas, Alvin P., to The Murray Ohio Mfg. Co. Juvenile vehicle body construction. 3,036,857, 5–29–62, Cl. 296—28.

Douglas, Alvin P., to The Murray Ohio Mfg. Co. Method of making a reinforced brazed tubular joint. 3,055,097, 9–25–62, Cl. 29—471.7

Douglas, Alvin P., and G. B. Hahn, to The Murray Ohio Mfg. Co. Adjustable pull strap mechanism for juvenile vehicles and the like. 3,044,802, 7–17–62, Cl. 280—256.

Douglas, Catherine M.: *See*—
Tesi, Giorgio, and Douglas. 3,052,720.
Tesi, Giorgio, and Douglas. 3,065,266.

Douglas, David. Painters' apparatus. 3,057,097, 10–9–62, Cl. 41—24.

Douglas, David W. Electronic key-card system. 3,029,345, 4–10–62, Cl. 250—208.

Douglas, Homer C., ½ to G. M. Warehime. Apparatus and method for dispensing liquids. 3,057,517, 10–9–62, Cl. 222—1.

Douglas, James K., to The Oilgear Co. Piston operated relief valve. 3,043,695, 7–24–62, Cl. 137—509.

Douglas, John L., E. F. Hasler, and P. S. Vick. Apparatus for testing the isolation of an electrical conductor from a supply source. 3,029,383, 4–10–62, Cl. 324—51.

Douglas, Newhall. Analysis and reproduction of image movement. 3,019,695, 2–6–62, Cl. 88—16.

Douglas, Newhall. Space-time reproduction of spatially recorded images. 3,019,696, 2–6–62, Cl. 88—16.

Douglas, Ollie G. Fluid power synchronizing device. 3,053,-053, 9–11–62, Cl. 60—97.

Douglas, Peyton W., to Blackstone Corp. Clothes driers. 3,068,422, 12–11–62, Cl. 34—82.

Douglas, Robert H. Microwave apparatus. 3,070,764, 12–25–62, Cl. 333—81.

Douglas, Robert R., and J. W. F. Blizard, Jr., to American Meter Co., Inc. Temperature compensating tangent. 3,069,927, 12–25–62, Cl. 74—800.

Douglas, Stuart D., deceased, by The National Bank of Commerce of Charleston, executor, to Union Carbide Corp. Vinyl chloride polymers. 3,068,210, 12–11–62, Cl. 260—78.5.

Douglas, William A., and P. P. Datner, to Aerojet-General Corp. Fluid flow modulator. 3,044,711, 7–17–62, Cl. 239—99.

Douglas, William G., to The Oilgear Co. Flat valve for hydraulic motor. 3,037,489, 6–5–62, Cl. 121—62.

Douglass, Alfred: *See*—
Douglass, Walter and A., and Dyson. 3,058,483.

Douglass, Charles C., and R. T. Evans, to Halliburton Co. Tubing anchor. 3,058,526, 10–16–62, Cl. 166—216.

Douglass, Clinton C., Jr. Interchangeable truck bed. 3,068,-038, 12–11–62, Cl. 296—24.

Douglass, Donald E.: *See*—
Johnson, Wayne W., Kimball, and Douglass. 3,042,497.

Douglass, Edward T., Jr. Apparatus for discharging wood refuse from a hopper. 3,026,992, 3–27–62, Cl. 198—57.

Douglass, Ernest: *See*—
Smith, Lundy E., and Douglass. 3,056,567.

Douglass, John, Jr.: *See*—
Shampaine, Hyman R., Adolphson, and Douglass. 3,028,732.
Shampaine, Hyman R., Adolphson, and Douglass. 3,046,-071.

Douglass, John, Jr., and G. R. Chervenka, to Shampaine Industries, Inc. Accessory supports for surgical operating tables and the like. 3,046,072, 7–24–62, Cl. 311—10.

Douglass, Pritchard C., and M. G. Giglio, to Bausch & Lomb Inc. Method of engraving spectacle frames and temple bars. 3,065,152, 11–20–62, Cl. 204—18.

Douglass, Thomas E., and C. B. Tilton, to Simonds Worden White Co. Metal phosphide filler for grinding wheels. 3,032,404, 5–1–62, Cl. 51—298.

Douglass, Walter and A., and P. A. H. Dyson, to Mucon Engineering Co. Ltd. Iris valve. 3,058,483, 10–16–62, Cl. 137—315.

Douglass, Walter H., and B. Solow, to International Resistance Co. Hermetically sealed electrical component. 3,064,070, 11–13–62, Cl. 174—52.

Doulgheridis, Aleibiades M. Shock absorbers and suspensions operated by liquid and/or gaseous fluid. 3,034,803, 5–15–62, Cl. 280—124.

Doumak, Alexander J., to National Dairy Products Corp. Method of making marshmallow. 3,062,661, 11–6–62, Cl. 99—134.

Doumani, Thomas F., to Union Oil Co. of California. Distillation process and apparatus. 3,038,843, 6–12–62, Cl. 204—154.
Doumani, Thomas F., to Union Oil Co. of California. Preparation of mercaptans. 3,053,902, 9–11–62, Cl. 260—609.
Doumas, Arthur C.: *See*—
Dean, Lloyd G., McCutchen, and Doumas. 3,024,091.
Douros, John D., Jr., and R. L. Raymond, to Sun Oil Co. Petroleum prospecting. 3,065,149, 11–20–62, Cl. 195—103.5.
Doussard, John R.: *See*—
Williamson, John R., and Doussard. 3,015,210.
Doussard, John R., to The Bendix Corp. Reset resistor configuration for magnetic amplifier. 3,041,529, 6–26–62, Cl. 323—89.
Douthitt, Walter H., to E. I. du Pont de Nemours and Co. Apparatus for dispensing wrapping materials. 3,029,571, 4–17–62, Cl. 53—66.
Douthitt Corp., The: *See*—
Hutchins, Loren. 3,064,546.
Douthitt, Robert C.: *See*—
Amdahl, Lowell D., Douthitt, Engel, and Hogan. 3,070,304.
Doutt, Kingsley A., to Westinghouse Air Brake Co. Aileron control system for aircraft. 3,048,354, 8–7–62, Cl. 244—90.
Douty, Alfred, to Amchem Products, Inc. Apparatus for spraying articles and for control of electrolyte concentrations. 3,019,799, 2–6–62, Cl. 134—57.
Douty, Alfred, to Amchem Products, Inc. Method of monitoring colored fluids. 3,062,963, 11–6–62, Cl. 250—218.
Douty, Donald L., to United States Steel Corp. Package of slender articles and method of making it. 3,037,620, 6–5–62, Cl. 206—65.
Douty, Donald L., to United States Steel Corp. Package of slender articles and method of manufacture. 3,057,472, 10–9–62, Cl. 206—65.
Dovci, John, to M. Dovci, by decree of distribution and assignment. Invalid's cart. 3,042,131, 7–3–62, Cl. 180—27.
Dovci, Michael: *See*—
Dovci, John. 3,042,131.
Dove, George W. Spectacle case. 3,036,697, 5–29–62, Cl. 206—5.
Dove, J. B., & Sons, Inc.: *See*—
Sadell, George W. 3,025,378.
Sadell, George W. 3,043,071.
Dove, Jack E. Multi-directional accelerometer. 3,015,958, 1–9–62, Cl. 73—516.
Dover Chemical Corp.: *See*—
Cohen, Robert S. 3,035,988.
Dover Corp.: *See*—
Adams, Gilbert T. 3,049,657.
Arbogast, Duane J., and Jaseph. 3,020,892.
Boone, Wallace D., and Briede. 3,042,084.
Burch, Jack E., Oakes, and Racely. 3,064,289.
Jaseph, Lawrence F. 3,020,891.
Jaseph, Lawrence F. 3,056,468.
Klaus, Richard M., and Moore. 3,038,714.
La Karnafeaux, John P., and McCrary. 3,070,189.
Shepherd, Raymond P., and Boone. 3,045,721.
Dover, David J.: *See*—
Magazanik, Louis, and Dover. 3,031,889.
Dover Maid Industries, Inc.: *See*—
Squires, George R., Jr., and R. W. Squires. 3,056,507.
Dow Chemical Co., The: *See*—
Adie George M. 3,043,730.
Anderson, Arthur W. 3,067,222.
Anderson, Arthur W., Greminger, and Beaver. 3,043,720.
Anderson, Robert E. 3,043,867.
Armen, Ardy, and Ehlers. 3,057,816.
Armen, Ardy, and Ehlers. 3,057,817.
Armen, Ardy, Murdock, and Cokelet. 3,029,213.
Armen, Ardy, and Traylor. 3,043,812.
Arnesen, Frederick M., and Cloninger. 3,035,010.
Baker, Robert G. 3,034,956.
Bakke, William W. 3,033,829.
Bakke, William W. 3,051,676.
Bakke, William W., and Tousignant. 3,058,849.
Beaver, Garth H., and Kelly. 3,054,688.
Beaver, Garth H., and Zerenne. 3,070,451.
Bersworth, Frederick C. 3,051,563.
Bersworth, Frederick C., and Singer. 3,033,214.
Beyer, Carlton E., and Dahl. 3,058,161.
Blue, Robert D., Sweeny, and Neipert. 3,019,279.
Borst, Lyle B. 3,053,776.
Borst, Lyle B., and Michael. 3,056,737.
Bothwell, Marvin R. 3,052,331.
Boudreaux, Joseph R., and McDonald. 3,019,094.
Brackett, Guy F., Jr. 3,039,901.
Brasie, William C. 3,060,505.
Brenner, John W., and Engle. 3,037,887.
Bressler, Wilbur L., and Presley. 3,029,286.
Bressler, Wilbur L., and Presley. 3,043,788.
Britton, Edgar C., Horsley, and Kellom. 3,033,864.
Brown, Paul L., and Hyde. 3,065,252.
Brown, Winston E. 3,049,571.
Bruce, John P. 3,039,968.
Bryner, Fred. 3,035,098.
Bryner, Fred, and Dietzler. 3,041,370.
Burgert, Billy E. 3,061,597.
Burkett, Francis L. 3,028,874.
Bushong, Lloyd B., Kennedy, and Lipke. 3,051,597.
Dow Chemical Co., The: *See*—Continued
Butler, Russell L. 3,022,212.
Byisma, Harold R., and Chisholm. 3,031,807.
Cannon, Guy H. 3,047,487.
Carlyle, Robert L. 3,047,057.
Childs, William I. 3,043,661.
Chisholm, Douglas S. 3,067,025.
Chisholm, Douglas S., Freeman, Holzinger, and Price. 3,065,190.
Chisholm, Douglas S., and Hall. 3,021,562.
Chisholm, Douglas S., and Hall. 3,056,190.
Cobel, George B., and Juckniess. 3,043,756.
Corbett, Gerald M. 3,035,867.
Cowherd, Edwin R., Bauman, and Wiley. 3,056,765.
Crane, Robert A. 3,041,421.
Crane, Robert A. 3,041,553.
Crane, Robert A., and Wharff. 3,065,632.
Crane, Robert A., and Wharff. 3,067,607.
Dance, Eldred L., Drisko, and McLain. 3,021,922.
Day, Marion C., Jr. 3,052,740.
Dean, Lloyd G., McCutchen, and Doumas. 3,024,091.
De Long, Herbert K. 3,034,210.
De Long, Herbert K., and Ritzema. 3,039,909.
Dever, Charles D., Harbour, and Seifert. 3,023,760.
Dick, Clarence R., and Pledger. 3,016,410.
Dietzler, Andrew J. 3,029,291.
Dietzler, Andrew J., and Keil. 3,051,753.
Dietzler, Andrew J., and Keil. 3,067,253.
Dillon, John A., Jr. 3,069,170.
Doedens, James D. 3,038,871.
Doedens, James D., and Rosenbrock. 3,047,518.
Dreisbach, Robert R., and Mulloy. 3,048,554.
Dulmage, Frederick E., Sr. 3,017,329.
Dunbar, Joseph E. 3,019,259.
Dunbar, Joseph E. 3,036,107.
Dunbar, Joseph E. 3,038,920.
Earlougher, Robert C. 3,021,901.
Easley, John A., and Fishabee. 3,023,138.
Eberhard, John F. 3,022,249.
Eberhard, John F., and Oakes. 3,037,934.
Edmunds, Alvin M. 3,024,913.
Ehlers, Forrest A. 3,017,390.
Eichhorn, Jacob. 3,058,926.
Eichhorn, Jacob, and Bates. 3,058,928.
Eichhorn, Jacob, Seamster, and Beall. 3,056,743.
Eilers, Louis H. 3,044,550.
Engles, Earl F. 3,026,273.
Fay, Russell H. 3,057,813.
Fischer, Kenneth C. 3,029,472.
Foerster, George S. 3,024,108.
Foerster, George S. 3,067,028.
Foerster, George S., and Rautiola. 3,024,107.
Foley, Richard D. 3,042,989.
Frevel, Ludo K., and Kressley. 3,032,389.
Frevel, Ludo K., and Kressley. 3,058,800.
Frost, Albert E. 3,036,108.
Frost, John R. 3,024,081.
Gatza, Eugene M. 3,058,918.
Gerard, Raymond T., and Anthony. 3,060,126.
Gilbert, Jeffrey F., and Rallis. 3,039,865.
Glass, John Y. 3,029,172.
Glew, David N. 3,058,832.
Glueck, Marta G., and Jankens. 3,051,675.
Gohlke, Roland S. 3,050,983.
Goodenough, Robert D. 3,017,245.
Goodenough, Robert D. 3,029,133.
Goodenough, Robert D. 3,058,875.
Goodenough, Robert D., and Stenger. 3,070,456.
Goos, Arthur W., and Trepanier. 3,051,454.
Gordon, David A. 3,047,536.
Gordon, David A. 3,060,242.
Gordon, David A. 3,068,196.
Goring, Cleve A. I. 3,047,377.
Goring, Cleve A. I. 3,047,378.
Goring, Cleve A. I. 3,050,380.
Goring, Cleve A. I. 3,050,381.
Goring, Cleve A. I. 3,050,382.
Gould, Gordon E., and Mason. 3,061,503.
Gray, Roland H., Jr., Rygwelski, and Tigner. 3,047,522.
Grebe, John J., and Miller. 3,044,756.
Greminger, George K., Jr., and Stafford. 3,060,139.
Grenley, Dallas G., Beebe, and Townsend. 3,061,562.
Griffin, John D. 3,054,146.
Grinstead, Robert R. 3,048,636.
Hahn, Harold G. 3,022,198.
Hahn, Harold G. 3,058,846.
Ham, George E. 3,045,027.
Ham, George E. 3,060,243.
Hamilton, Dallas E. 3,017,436.
Hansen, Robert D. 3,033,646.
Hanson, Alden W. 3,047,068.
Harper, Billy G., and Davis. 3,067,118.
Harrison, Hugh T. 3,062,748.
Hatch, Melvin J. 3,030,317.
Hatch, Melvin J. 3,041,292.
Hatch, Melvin J., and Dillon. 3,067,007.
Havens, Carl B., and Brookens. 3,048,637.
Havens, Carl B., and Brookens. 3,068,193.
Havens, Carl B., and Clark. 3,024,270.
Havens, Carl B., and Hannah. 3,066,882.
Heiny, Suzanne N. 3,041,375.
Hemwall, John B. 3,019,098.
Hemwall, John B. 3,029,140.

Dow Chemical Co., The: *See*—Continued
Hennis, Henry E., and Rosenbrock. 3,022,222.
Henson, Walter A., Helmreich, and Johnson. 3,061,559.
Hibbard, Billy B. 3,029,223.
Hibbard, Billy B., and Weage. 3,044,992.
Hock, Kenneth R., and Paige. 3,067,153.
Hoelzer, Russell L., and Schmidt. 3,060,852.
Holshouser, Robert L. 3,034,186.
Honea, Charles R., Latta, and Pendleton. 3,054,778.
House, James G. 3,032,842.
House, James G., and Theobald. 3,037,252.
Houvener, Irving S. 3,046,602.
Howard, William L., and Lorette. 3,024,284.
Howe, Joseph H. 3,035,021.
Howe, Joseph H. 3,036,036.
Howe, Joseph H. 3,036,037.
Howe, Joseph H. 3,036,038.
Howe, Joseph H. 3,036,039.
Howe, Joseph H. 3,047,547.
Hradel, Joseph R. 3,024,727.
Hradel, Joseph R., and Hine. 3,021,785.
Hudson, Robert L. 3,067,165.
Hymas, Theo A., and Stevenson. 3,052,602.
Jahn, Alex K. 3,046,236.
Jahn, Alex K., and Gillard. 3,043,817.
Jankowiak, Erven M., and Nelson. 3,042,665.
Johansson, Carlton R. 3,065,200.
Johnson, Francis. 3,058,983.
Johnston, Howard. 3,051,757.
Johnston, Howard. 3,054,828.
Jones, Giffin D. 3,067,182.
Josephs, Melvin J. 3,034,667.
Josephs, Melvin J. 3,054,668.
Josephs, Melvin J., and Hardy. 3,069,252.
Kaeding, Warren W. 3,053,895.
Kaeding, Warren W. 3,061,651.
Karpiuk, Robert S., and Hoekstra. 3,029,143.
Karpiuk, Robert S., and Hoekstra. 3,029,144.
Kelley, John P., Jr. 3,067,569.
Kenin, Russell S. 3,033,239.
Keskkula, Henno, and Pettis. 3,042,654.
Keskkula, Henno, Sterling, and Leatherman. 3,067,164.
Klein, Walter A., and Lincoln. 3,028,834.
Kline, Clifford W., and Bennett. 3,047,359.
Klink, John D., and Justin. 3,060,513.
Klink, John D., and Justin. 3,070,588.
Krenzke, Fred J. 3,016,343.
Kurfman, Virgil S. 3,034,154.
Lacy, George H., and Chervenak. 3,033,707.
Lang, John L. 3,047,542.
Lang, John L. 3,054,780.
Lang, John L. 3,055,872.
Lashua, Sherman C. 3,044,783.
Leathers, Joel M., and Woodward. 3,051,747.
Le Blanc, Robert B. 3,050,539.
Leddy, James J., and Schechter. 3,060,002.
Lee, John M., and Albrecht. 3,029,163.
Lee, Lieng-Huang, and Keskkula. 3,026,298.
Lee, Lieng-Huang, and Keskkula. 3,036,040.
Lefevre, Leonard J. 3,044,905.
Lefevre, Leonard J. 3,044,906.
Lefevre, Lloyd E. 3,018,550.
Le Fevre, Walter J., and Sheetz. 3,024,221.
Le Fevre, Walter J., and Sheetz. 3,033,833.
Legler, Bobby. 3,047,537.
Levine, Charles A., and Traylor. 3,027,311.
Levy, Donald J. 3,070,464.
Lloyd, William G., and Alfrey. 3,022,199.
Long, Ray S., Olson, and Surls. 3,067,010.
Lynn, Scott, and Oldershaw. 3,062,733.
MacBeth, Gordon, and Heitz. 3,051,761.
Martin, Robert C. 3,044,959.
Mattano, Leonard A. 3,043,809.
McCormick, Herbert W., and Friedrich. 3,069,405.
McIlhenny, William F., and Baker. 3,056,651.
McKennon, Keith R. 3,039,529.
McMaster, Elmer L. 3,022,253.
McMaster, Elmer L. 3,058,953.
McMaster, Elmer L., Eichhorn, and Nagle. 3,058,927.
McMaster, Elmer L., and Nagle. 3,037,842.
McMillan, William J., and Denslow. 3,066,106.
McMillan, William J., and Nicholls. 3,026,274.
McMurtrie, Robert. 3,019,059.
McNally, Howard L. 3,059,455.
Mills, Jack F. 3,050,369.
Mills, Jack F., McAnallen, and Montgomery. 3,053,763.
Mod, William A., and Becker. 3,059,998.
Monroe, Roger F., Lowes, Foster, and Oakes. 3,049,496.
Montgomery, Robert S., and Lang. 3,061,900.
Montgomery, Robert S., and Tobey. 3,054,687.
Moore, Carl, and Tousignant. 3,047,611.
Morris, Leo R. 3,037,944.
Morris, Leo R. 3,037,945.
Moyle, Clarence L., and Johnson. 3,033,746.
Moyle, Clarence L., and Johnson. 3,062,710.
Moyle, Clarence L., and Mussell. 3,056,669.
Murdock, Stanley A. 3,029,219.
Murdock, Stanley A., and Armen. 3,026,295.
Murdock, Stanley A., and Armen. 3,026,296.
Murdock, Stanley A., and Armen. 3,029,218.
Murdock, Stanley A., Davis, and Ehlers. 3,029,220.

Dow Chemical Co., The: *See*—Continued
Murdock, Stanley A., Davis, and Ehlers. 3,035,009.
Murdock, Stanley A., Davis, and Ehlers. 3,036,032.
Murdock, Stanley A., and Traylor. 3,026,291.
Murdock, Stanley A., Traylor, and Lefferdink. 3,026,287.
Murdock, Stanley A., Traylor, and Lefferdink. 3,026,288.
Murdock, Stanley A., Traylor, and Lefferdink. 3,036,033.
Murdock, Stanley A., and Wirth. 3,047,426.
Naegele, Robert E. 3,061,400.
Nagle, Floyd B. 3,057,751.
Nagle, Floyd B., and Ruffing. 3,070,553.
Nagle, Floyd B., and Ruffing. 3,070,554.
Nakamura, Masao. 3,062,689.
Nault, Joyce D. 3,067,022.
Newport, John J., III, Olstowski, and Watson. 3,062,-901.
Newport, John J., III, Olstowski, and Watson. 3,067,-263.
Newsom, Raymond A. 3,044,958.
Norton, Frederick H. 3,067,236.
Oakes, Billy D. 3,017,355.
Oakes, Billy D. 3,030,311.
Oakes, Billy D. 3,047,511.
Oja, Phyllis D. 3,043,866.
Oja, Phyllis D. 3,046,302.
Oja, Phyllis D. 3,067,250.
Olah, George A., and Kuhn. 3,024,291.
Olah, George A., and Kuhn. 3,061,405.
Olah, George A., Kuhn, and Quinn. 3,052,733.
Oliver, Kenneth R., Jr. 3,063,294.
Olstowski, Franciszek. 3,017,336.
Olstowski, Franciszek. 3,022,233.
Olstowski, Franciszek. 3,047,637.
Olstowski, Franciszek, and Newport. 3,033,767.
Olstowski, Franciszek, and Newport. 3,037,919.
Olstowski, Franciszek, and Watson. 3,042,727.
Osborn, Oliver, McCutcheon, and Hradel. 3,053,710.
Palfey, Albert J. 3,023,456.
Palfey, Albert J. 3,050,084.
Park, William R. R. 3,027,275.
Park, William R. R., and Hill. 3,022,178.
Park, William R. R., and Hill. 3,053,695.
Parks, Christ F., Strassner, and Burtch. 3,067,134.
Partansky, Alexander M. 3,051,681.
Pawloski, Chester E. 3,061,630.
Pawloski, Chester E. 3,061,643.
Periard, John N., and Waldron. 3,055,935.
Peterson, Norman B. 3,042,562.
Piccoli, William A. 3,050,542.
Pierce, James E., and Reish. 3,059,277.
Plueddemann, Edwin P. 3,057,901.
Polmanteer, Keith E., and Brown. 3,050,492.
Proffitt, Arthur C. 3,022,279.
Pursglove, Laurence A. 3,057,919.
Pye, David J. 3,052,595.
Raley, Charles F., Jr. 3,061,584.
Reding, John N., Jr. 3,026,196.
Reding, John N., Jr. 3,042,511.
Rickert, Herbert B. 3,061,466.
Rigterink, Raymond H. 3,023,207.
Rigterink, Raymond H. 3,064,009.
Roberts, Carleton W. 3,050,557.
Roberts, Carleton W., and Haigh. 3,043,795.
Roberts, Carleton W., Haigh, Hall, and Lamson. 3,029,-217.
Robinson, John L. 3,038,019.
Rogers, William A., Jr., Woehst, and Smith. 3,022,315.
Roth, Harold H. 3,033,834.
Roth, Harold H. 3,048,550.
Roth, Harold H. 3,053,646.
Roth, Harold H. 3,056,766.
Roth, Harold H. 3,067,161.
Rubens, Louis C., and Engles. 3,026,272.
Rubens, Louis C., Griffin, and Trchick. 3,067,147.
Rubens, Louis C., and Warrant. 3,033,805.
Ruffing, Norman R., Amos, and Puzar. 3,017,426.
Sanders, John H. 3,061,402.
Schechter, Dale L., and Leddy. 3,069,235.
Schrenk, Walter J. 3,033,256.
Schweitzer, William K., Jr., Lee, Jones, and Lang. 3,035,033.
Senkbeil, Herman O. 3,038,925.
Senkbeil, Herman O. 3,041,366.
Setser, Donald D. 3,057,813.
Sexton, Arthur R. 3,051,760.
Shorkey, Albert F., Powell, and Wilson. 3,028,955.
Shulgin, Alexander T. 3,037,993.
Shulgin, Alexander T. 3,057,864.
Shulgin, Alexander T. 3,060,225.
Skochdopole, Richard E., Rubens, and Jones. 3,062,729.
Sloane, Howard J., and Bradley. 3,022,353.
Soderquist, Frederick J., Boyce, and Amos. 3,058,968.
Stanton, George W., and Traylor. 3,022,264.
Stanton, George W., and Traylor. 3,022,265.
Stanton, George W., and Traylor. 3,026,292.
Stanton, George W., and Traylor. 3,048,561.
Stanton, George W., and Traylor. 3,049,507.
Stanton, George W., and Traylor. 3,049,508.
Stanton, George W., and Traylor. 3,050,498.
Stanton, George W., and Traylor. 3,058,950.
Sterling, George B. 3,025,261.

Dow Chemical Co., The: *See*—Continued
Sterling, George B. 3,025,277.
Sterling, George B. 3,052,651.
Sterling, George B. 3,067,154.
Sterling, George B. 3,069,388.
Sterling, George B., and Pawloski. 3,061,631.
Strycker, Stanley J., and Dunbar. 3,038,921.
Surine, William R., Pursglove, and Stoesser. 3,061,632.
Swezey, Arthur W. 3,049,472.
Szwarc, Michael M. 3,050,511.
Szwarc, Michael M. 3,070,579.
Talcott, Thomas D. 3,065,201.
Teitel, Robert J. 3,053,650.
Teitel, Robert J., and Cobel. 3,069,256.
Teot, Arthur S. 3,024,225.
Teot, Arthur S. 3,027,223.
Thiegs, Bernard J. 3,022,251.
Tolkmith, Henry. 3,047,624.
Tolkmith, Henry, Slagh, and Kauer. 3,022,329.
Tousignant, William F. 3,044,999.
Tousignant, William F., and Walles. 3,033,830.
Tousignant, William F., Walles, and Houtman. 3,030,-339.
Traylor, Teddy G., and Armen. 3,043,811.
Traylor, Teddy G., and Voeks. 3,048,555.
Tryon, Ward R. 3,061,465.
Vanderhoff, John W., and Jahn. 3,058,929.
Vanderkooi, William N. 3,067,004.
Van Horne, Beverley H., and Detwiler. 3,057,185.
Villars, Charles E. 3,056,842.
Volk, Henry. 3,065,193.
Walles, Wilhelm E. 3,065,130.
Walles, Wilhelm E., and Tousignant. 3,054,764.
Walles, Wilhelm E., Tousignant, and Cloninger. 3,067,-143.
Walter, Ned F., Waters, and Lee. 3,033,666.
Waters, Rolland M., and Lee. 3,050,547.
Watkins, Beverly J. 3,033,668.
Watson, Edward J., Jr. 3,021,371.
West, Theo J., and Dewey. 3,042,641.
Wharff, Prentice C., Jr. 3,034,528.
Wheeler, Donald D. 3,061,779.
Whitby, Lawrence. 3,019,135.
Wiles, Charles R. 3,015,851.
Wiley, Ralph M. 3,055,827.
Wilkinson, Bruce W., Pumpelly, and Russell. 3,026,257.
Woodard, George W., and Merkle. 3,058,520.
Woodcock, Donald N., and Streeter. 3,069,176.
Wright, Palmer W., Kozakiewicz, and Roche. 3,043,785.
Young, David M., and Anderson. 3,065,236.
Young, David M., and Glew. 3,067,267.
Youngson, Charles R. 3,062,705.
Youngson, Charles R., and Goring. 3,026,244.
Youngson, Charles R., and Goring. 3,026,246.
Youngson, Charles R., and Goring. 3,055,799.
Youngson, Charles R., and Goring. 3,056,720.
Youngson, Charles R., and Goring. 3,061,507.
Zack, John F., Jr. 3,065,158.
Zingg, Warren M. 3,060,064.
Zingg, Warren M. 3,066,735.
Zupic, Carl P., and Carey. 3,065,097.
Zweigle, Maurice L. 3,056,752.
Zweigle, Maurice L., and Humbert. 3,066,382.
Dow Corning Corp.: *See*—
Badger, William H. 3,061,545.
Beck, Henry N. 3,070,573.
Brown, Eric D. 3,024,126.
Bruner, Leonard B. 3,032,532.
Bruner, Leonard B. 3,035,016.
Bruner, Leonard B. 3,063,973.
Bruner, Leonard B., Jr. 3,070,555.
Clark, Harold A. 3,032,529.
Collings, William R. 3,061,565.
Daudt, William H. 3,036,985.
Falk, Richard A. 3,052,550.
Fenner, Jack V. 3,024,214.
Findlay, Donald E. 3,038,818.
Frye, Cecil L., and McLean. 3,055,858.
Gilkey, John W. 3,046,241.
Gilkey, John W., and Plueddemann. 3,055,774.
Holbrook, George W. 3,070,617.
Holbrook, George W., and Steward. 3,015,585.
Hutchinson, William E. 3,024,131.
Keil, Joseph W. 3,050,411.
Keil, Joseph W. 3,061,567.
Merker, Robert L. 3,041,362.
Merker, Robert L. 3,043,858.
Merker, Robert L., and Piccoli. 3,041,363.
Metevia, Virgil L. 3,070,560.
Nelson, Melvin E. 3,020,260.
Plueddemann, Edwin P. 3,046,250.
Rainer, Lawrence A., and Tyler. 3,015,637.
Reinke, Lester H. 3,046,155.
Russell, James R. 3,061,575.
Saylor, John C. 3,032,531.
Sommer, Leo H. 3,046,291.
Sommer, Leo H. 3,050,501.
Sommer, Leo H., and Frye. 3,024,262.
Speier, John L. 3,015,646.
Tyler, Leslie J. 3,015,645.
Vincent, Harold L. 3,061,467.
Warrick, Earl L. 3,015,331.
Weyer, Donald E. 3,024,210.
Dow, Frank W., to Hughes Aircraft Co. Flexible electroluminescent strand. 3,052,812, 9–4–62, Cl. 313—108.
Dow, Harrison E., to Philco Corp. Stereophonic sound reproducing system. 3,060,266, 10–23–62, Cl. 179—1.
Dow, Jennings B., to Hazeltine Research, Inc. Indicator for ice and like substances. 3,046,537, 724–62, Cl. 340—234.
Dow Jones & Co., Inc.: *See*—
Ackell, Joseph J., and Paulding. 3,044,395.
Ackell, Joseph J., Paulding, and Yu. 3,018,946.
Dow, Leslie A., A. R. Fredrickson, and R. D. Parsons, ½ to Fram Corp., and ½ to Hollingsworth & Vase Co. Porous separator media. 3,044,957, 7–17–62, Cl. 210—508.
Dow, Ray A. Refuse disposal and general truck bed. 3,069,-037, 12–18–62, Cl. 214—504.
Dow, Russell H., to Allied Chemical Corp. Process and composition for simultaneously seeding and mulching soil areas. 3,024,570, 3–13–62, Cl. 47—58.
Dow, Walter K. Flush pin gage and adapter therefor. 3,061,934, 11–6–62, Cl. 33—172.
Dow, Walter J., and A. R. Collins, to Arc Engineering Corp. Water-cooled radiant-heat furnace. 3,038,987, 6–12–62, Cl. 219—35.
Dow, Willard, to United States of America, Navy. Telemetering depth meter. 3,038,143, 6–5–62, Cl. 340—5.
Dow, William T.: *See*—
Williams, Geoffrey E., and Dow. 3,026,657.
Dowd, Howard M., and R. L. Barrows. Apparatus for sweeping pins from a bowling alley. 3,041,072, 6–26–62, Cl. 273—54.
Dowd, Howard M., and R. L. Barrows. Automatic bowling pin setting machine. 3,063,716, 11–13–62, Cl. 273—43.
Dowd, Howard M., and R. L. Barrows. Apparatus for conveying bowling balls. 3,070,369, 12–25–62, Cl. 273—43.
Dowda, William E. Molded articles. 3,063,182, 11–13–62, Cl. 40—135.
Dowdell, Rodger B., to The New York Air Brake Co. Mass flow meter. 3,062,295, 11–13–62, Cl. 73—194.
Dowdell, Thomas de W., and C W. Musser, to United States of America, Army. Piezo-electric fuze. 3,031,968, 5–1–62, Cl. 102—70.2.
Dowdle, Walter F.: *See*—
Dowdle, Walter F., and Dowdle. 3,042,837.
Dowdle, Walter F., to Essex Wire Corp. Method of assembling relays. 3,020,626, 2–13–62, Cl. 29—155.5.
Dowds, Thomas A.: *See*—
Baird, George A., and Dowds. 3,069,078.
Dowell, Arthur M., Jr.: *See*—
Stoll, Milton, and M. 3,039,803.
Dower, Edward W., to Elgin Metal Casket Co., Inc. Adjustable casket bed. 3,065,516, 11–27–62, Cl. 27—12.
Dower, Edward W., to Elgin Metal Casket Co., Inc. Casket sealing means. 3,065,517, 11–27–62, Cl. 27—17.
Dower, Ethell J., to Warren Automatic Tool Co. Testing of well drilling mud. 3,031,891, 5–1–62, Cl. 73—438.
Dower, Ethell J., to Warren Automatic Tool Co. Testing for gas in well drilling fluid. 3,043,409, 8–14–62, Cl. 23—230.
Dowie, Douglas W., and H. D. Martin, to Corn Products Co. Wet starch impact milling process. 3,029,169, 4–10–62, Cl. 127—67.
Dowley, Arthur, to Service (Engineers) Ltd. Apparatus adapted for use in affixing handles in the manufacture of articles of ceramic ware. 3,052,007, 9–4–62, Cl. 25—22.
Dowling, John H.: *See*—
Lawrence, Augustine H., Jr., and Dowling. 3,042,479.
Dowling, Robert W., and L. del Riccio, to D & D Co., Inc. Binocular telescope focusing means. 3,015,252, 1–2–62, Cl. 88—34.
Dowling, Robert W., and L. del Riccio, to D & D Co., Inc. Lens covers for a binocular telescope. 3,062,098, 11–6–62, Cl. 88—34.
Downard, Jack M., to Hercules Powder Co. Gelatinous explosive composition. 3,018,201, 1–23–62, Cl. 149—19.
Downes, Lloyd C., to Hoffman Electronics Corp. Autocorrelation detector circuit. 3,045,916, 7–24–62, Cl. 235—181.
Downes, Lloyd C., to Hoffman Electronics Corp. Color reproduction of radar information and method for accmplishing same or the like. 3,067,415, 12–4–62, Cl. 343—5.
Downey, Betty L.: *See*—
Schmidt, Willy A., and Downey. 3,035,914.
Downey, Gilles L. Universal sock clamp. 3,050,801, 8–28–62, Cl. 24—81.
Downey, Hubert A. Marshmallow dry mix. 3,018,183, 1–23–62, Cl. 99—134.
Downey, John F., and R. C. Hoare, to Allied Chemical Corp. Colored aromatic polyester material and process of making same. 3,018,154, 1–23–62, Cl. 8—55.
Downey, Raymond E.: *See*—
O'Brien, William J., and Downey. 3,059,241.
Downey, William F.: *See*—
Olson, John E., and Downey. 3,022,773.
Downham, Ralph, and T. U. Taylor, to Cammell Laire & Co. (Shipbuilders & Engineers) Ltd. Deck structure for ships. 3,059,606, 10–23–62, Cl. 114—72.
Downie, Robert H., to Harris-Intertype Corp. Printing equipment. 3,049,995, 8–21–62, Cl. 101—216.
Downie, Robert H., to Harris-Intertype Corp. Rotary printing press. 3,049,996, 8–21–62, Cl. 101—217.
Downing, Edward T., and G. F. Smith, to Raytheon Co. Magnetrons. 3,046,444, 7–24–62, Cl. 315—39.51.
Downing, Francis P., to The Sharples Corp. Centrifugal process and appartaus. 3,047,214, 7–31–62, Cl. 233—14.

Downing, Francis P., and T. W. Alberts, to The Sharples Corp. Mechanical defatting of fatty tissue derived from animals. 3,020,160, 2–6–62, Cl. 99—14.

Downing, George V., Jr., to Merck & Co., Inc. Purification process for hydrochlorothiazide. 3,043,840, 7–10–62, Cl. 260—243.

Downing, James H., N. B. Colton, and C. G. Chadwick, to Union Carbide Corp. Production of columbium and tantalum. 3,048,484, 8–7–62, Cl. 75—84.

Downing, John: *See*—
Brown, Russell J., and Downing. 3,066,007.
Grebby, John W., Hawtin, and Downing. 3,046,608.
Larman, William T., Hawtin, and Downing. 3,023,075.

Downing, Richard. Method and apparatus for drying coal. 3,058,229, 10–16–62, Cl. 34—28.

Downing, Richard M., R. E. Mortberg, and W. J. Smith, to E. I. du Pont de Nemours and Co. Process for preparing expanded cellular materials. 3,016,576, 1–16–62, Cl. 18—48.

Downing, Richard M., M. F. Fuller, O. H. Paddison, and N. C. Wyeth, to E. I. du Pont de Nemours and Co. Insulated electrical conductor. 3,064,073, 11–13–62, Cl. 174—110.

Downing, Willis T. Quick disconnect side slide coupling. 3,034,807, 5–15–62, Cl. 285—33.

Downs, Bernard W.: *See*—
Ray, Dobert T. 3,065,575.

Downs, Edgar S. Liquid fuel burning heater. 3,029,863, 4–17–62, Cl. 158—4.

Downs, John W., to Sperry Rand Corp. Muzzle velocity chronograph. 3,034,049, 5–8–62, Cl. 324—70.

Downs, Myron H., to Plastomer Development Corp. Method of making thermoplastic tubular container. 3,047,910, 8–7–62, Cl. 18—59.

Downs, Ronald O.: *See*—
Bachman, Gustave B., and Downs. 3,054,829.

Downs, Thomas J.: *See*—
Edelston, Murray G., and Downs. 3,049,073.

Downs, Thomas R. Clock operated animal feeder dispenser. 3,060,891, 10–30–62, Cl. 119—51.15.

Dowson, Arthur G., and I. J. Buckland, to Engelhard Industries, Inc. Methods for detecting and/or measuring the concentration of oxygen in aqueous liquids such as boiler feed water. 3,050,371, 8–21–62, Cl. 23—230.

Dowty Electrics Ltd.: *See*—
Hanlon Frank, O'Sullivan, Lambeth, and Thomas. 3,031,573.

Dowty, George H., to Dowty Technical Developments Ltd. Propulsion of outboard engine driven boats or other Marine craft. 3,064,616, 11–20–62, Cl. 115—12.

Dowty Hydraulic Units Ltd.: *See*—
Checkley, Peter E., and Bick. 3,040,676.
Checkley, Peter E., and Hollis. 3,033,386.
Kempson, Bertram C. 3,017,750.
Knowler, Peter. 3,053,043.
Thoma, Oswald, and Bowers. 3,040,532.

Dowty Hydraulic Units Ltd. and Unnipat A.G.: *See*—
Bowers, Eric H., and Thoma. 3,023,058.

Dowty Mining Equipment Ltd.: *See*—
Bend, Herbert, and Wilson. 3,021,856.

Dowty Rotol Ltd.: *See*—
Cameron-Johnson, Alan. 3,018,986.
Cameron-Johnson, Alan. 3,025,674.
Chilman, John A., and Cotton. 3,067,825.
Knights, Richard N. 3,029,488.
Knights, Richard N. 3,041,901.
Knights, Richard N. 3,064,582.
Willitt, Arthur A. J. 3,041,020.

Dowty Seals Ltd.: *See*—
Underwood, Cyril J. 3,062,557.

Dowty Technical Development Ltd.: *See*—
Dowty, George H. 3,064,616.

Doxford, William, & Sons (Engineers) Ltd.: *See*—
Jackson, Percy. 3,033,184.
Jackson, Percy, and Taylor. 3,048,155.
Jackson, Percy, and Taylor. 3,051,147.

Doying, Dean H.: *See*—
Strunk, Melvin J., Shortell, Lobash, Doying and Jounen. 3,061,909.

Doyle, Britton H., to Nashua Corp. Manual selective plural length tape dispenser. 3,043,486, 7–10–62, Cl. 226—136.

Doyle, Collin M., and M. J. Costello, to Dresser Industries, Inc. Liquid feed arrangement for centrifugal devices. 3,050,238, 7–21–62, Cl. 233—15.

Doyle, Collin M., and H. R. Kaiser, to W. J. Podbielniak. Rotating separator with distribution and mixing means. 3,053,440, 9–11–62, Cl. 233—15.

Doyle, Donald J. Anti-offset power spray and cleaner system. 3,053,180, 9–11–62, Cl. 101—416.

Doyle, Donald J. Vacuum nozzle face plate construction for paper sheet cleaners and the like. 3,060,482, 10–30–62, Cl. 15—306.

Doyle, Earl N., and K. Arvanetakis. Pipe line treating apparatus. 3,058,137, 10–16–62, Cl. 15—104.06.

Doyle, Frank B.: *See*—
Parmele, Harris B., Doyle, and Routh. 3,053,259.

Doyle, Frank P., J. H. C. Nayler, and G. N. Rolinson. Synthetic penicillin and salts thereof. 3,025,290, 3–13–62, Cl. 260—239.1.

Doyle, Frank P., J. H. Nayler, and G. N. Rolinson. Synthetic penicillins and salts thereof. 3,040,032, 6–19–62, Cl. 260—239.1.

Doyle, Frank P., and J. H. C. Nayler. Synthetic penicillins. 3,043,831, 7–10–62, Cl. 260—239.1.

Doyle, Frank P., J. H. C. Nayler, and G. N. Rolinson, to Beecham Research Laboratories, Ltd. Process for the preparation of penicillins. 3,047,467, 7–31–62, Cl. 195—36.

Doyle, Nicholas E., Jr.: *See*—
Basche, Malcolm C., Doyle, and Hetherington. 3,020,387.

Doyle, Orville K.: *See*—
Schoepe, Adolf, and Doyle. 3,032,229.

Doyle, Richard H.: *See*—
Wandel, Oscar A., and Doyle. 3,043,272.
Wandel, Oscar A., and Doyle. 3,056,137.

Doyle, Robert, to Phillips Petroleum Co. Heat sealing bar. 3,017,315, 1–16–62, Cl. 156—581.

Doyle, Robert, ½ to L. Tomeo. Automatic squeeze-tube cap. 3,054,537, 9–18–62, Cl. 222—545.

Doyle, Robert, W. L. Holt, and W. E. Cooper, to Phillips Petroleum Co. Method for vacuum molding polymer sheets. 3,019,488, 2–6–62, Cl. 18—56.

Doyle, Robert C. Means and method for providing access to pipe couplings in concrete slabs. 3,047,930, 8–7–62, Cl. 25—118.

Doyle, Robert L., to Western Progress Manufacturers. Telescoping assembly. 3,061,343, 10–30–62, Cl. 287—58.

Doyle, William M., 20% to J. H. McElyea, 5% to L. L. Gatewood, 15% to W. F. Laman, 5% to W. T. Feild, 5% to F. E. Tucker, and 10% to H. L. Bryant. Portable incinerator and cooker. 3,029,754, 4–17–62, Cl. 110—19.

Dozier, Herma W. Brassiere construction. 3,046,990, 7–31–62, Cl. 2—460.

Dozier, Herma W. Full front slip. 3,055,014, 9–25–62, Cl. 2—73.

Dozier, James J., Jr. Ignition system for internal combustion engines. 3,056,066, 9–25–62, Cl. 315—223.

Dozier, Leonard C., Jr., to North American Aviation, Inc. Autonavigator. 3,050,995, 8–28–62, Cl. 73—178.

Draber, Wilfried J.: *See*—
Wallenfels, Kurt A. W., and Draber. 3,043,884.
Wallenfels, Kurt A. W., and Draber. 3,051,725.

Drabkowski, Robert S.: *See*—
Russoff, Samuel, and Drabkowski. 3,015,850.

Dracka, Clarence L., to Port Clinton Mfg. Co. Handle-lever grip, slidable jaw wrench. 3,015,245, 1–2–62, Cl. 81—126.

Drackett Co., The: *See*—
Cooprider, Rex C. 3,062,416.
Cooprider, Rex C. 3,063,310.
Corsette, Douglas F. 3,044,413.
Corsette, Douglas F. 3,053,459.
Corsette, Douglas F. 3,069,040.
Morgan, Paul A. 3,050,761.

Drackett, Jack W. R. Ceiling construction. 3,031,042, 4–24–62, Cl. 189—34.

Drackett, Myron J., L. K. Jensen, and G. Johnson, Jr., to Clark Equipment Co. Attachment for lift truck. 3,039,635, 6–19–62, Cl. 214—514.

Dracone Developments Ltd.: *See*—
Hawthorne, William R., and Hasler. 3,056,373.
Warburton-Hall, Henry. 3,068,132.

Drader, Joseph C., to Michigan Tool Co. Tool for pressure forming toothed elements. 3,015,243, 1–2–62, Cl. 80—20.

Draeger, Albertus, G., D. S. Bunin, and G. W. Olsen, to FMC Corp. Manufacture of phosphorus oxychloride. 3,052,520, 9–4–62, Cl. 23—203.

Draf Tool Co., Inc.: *See*—
Sachs, Herbert. 3,063,705.

Drafto Corp.: *See*—
Kraeling, John B., and Coon. 3,037,804.

Draganjac, Michael J., E. J. Kleinhample, and P. E. Pappas, to Westinghouse Air Brake Co. Voltage amplitude checking system. 3,035,232, 5–15–62, Cl. 330—2.

Drager, Otto H.: *See*—
Grosskopf, Carl. 3,033,655.
Schreiber, Peter, and Claudius. 3,039,481.
Stampe, Gerhard, Mollering, and Grosskopt. 3,026,711.
Tietze, Hermann. 3,068,864.
Ulmer, Wolfgang. 3,050,062.
Van der Smissen, Carl E. 3,025,141.

Dragerwerks, Heinr. & Bernh.: *See*—
Grosskopf, Karl. 3,022,141.

Dragoco Gerberding & Co., G.m.b.H.: *See*—
Ohloff, Guenther, and Schade. 3,070,629.

Dragon, Peter F. Bottle top closure with combination lock. 3,059,801, 10–23–62, Cl. 215—98.

Dragon, Raymond A.: *See*—
Wiech, George H., and Dragon. 3,041,295.

Dragoon, Felix. Shoe drying and cleaning appliance. 3,054,129, 9–18–62, Cl. 15—311.

Dragotta, Charles A., and A. C. Cereghino, Jr., to National Dairy Products Corp. Artificial snow. 3,042,638, 7–3–62, Cl. 260—23.

Drahoš, Vladimír: *See*—
Delong, Armin, Drahoš, and Speciálný. 3,036,397.

Drain, James A., J. A. Read, and J. E. Gordon, to Joy Mfg. Co. Grapple. 3,023,044, 2–27–62, Cl. 294—88.

Draiswerke G.m.b.H., Firma: *See*—
Goeser, Paul A. 3,015,451.

Drake, Arthur K., and D. O. Cochrane, to Edgerton, Germeshausen and Grier, Inc. Blocking oscillator system. 3,027,517, 3–27–62, Cl. 328—242.

Drake, Bernard, and D. K. Hicks, to Siemens Edison Swan Ltd. Parallel connected synchronized oscillators with automatic disabling controls. 3,047,816, 7–31–62, Cl. 331—49.

Drake, Frederick H. Phonograph turntable assembly. 3,047,297, 7–31–62, Cl. 274—39.
Drake, Jack R.: *See*—
Henderson, Robert B., and Drake. 3,033,431.
Drake, John A., to The Marquardt Corp. Fuel-air ratio controller. 3,028,731, 4–10–62, Cl. 60—39.28.
Drake, John A., to The Marquardt Corp. Mass fuel-air ratio metering control for gaseous fuel system. 3,030,772, 4–24–62, Cl. 60—39.28.
Drake, John E.: *See*—
Leitner, Robert T., and Drake. 3,030,622.
Drake, John M., R. H. Watson, D. M. Patterson, and J. F. McCraigh, to Varian Associates. Magnetic field measuring methods and apparatus. 3,066,252, 11–27–62, Cl. 324—.5.
Drake, Leonard C., to Socony Mobil Oil Co., Inc. Removal of discolorizing impurities from inorganic oxide geis. 3,015,541, 1–2–62, Cl. 23—182.
Drake, Oscar A., and H. E. Smithgall, to Sylvania Electric Products, Inc. Cathode ray tube structure. 3,016,471, 1–9–62, Cl. 313—82.
Drake, Robert W. Spring operated cross bow. 3,028,851, 4–10–62, Cl. 124—16.
Drake, Robert W., and S. H. Creed, to FMC Corp. Fruit preparation machine. 3,035,620, 5–22–62, Cl. 146—28.
Drake, Robert W., and S. M. Kleinfelter, to Sylvania Electric Products Inc. Lamp package. 3,051,369, 8–28–62, Cl. 229—39.
Drake, Rose P., and L. F. Whitley. Composition and method for treating nails. 3,034,965, 5–15–62, Cl. 167—85.
Drake, William H. Cone holders. 3,055,608, 9–25–62, Cl. 242—129.7.
Drakeford, George E., and F. E. Smith, to Dunlop Rubber Co. Ltd. Pneumatic tyre covers. 3,044,522, 7–17–62, Cl. 152—355.
Drakeford, George E., and F. E. Smith, to Dunlop Rubber Co. Ltd. Pneumatic tires. 3,044,523, 7–17–62, Cl. 152—362.
Drakeford, George E., and R. N. Manning, to Dunlop Rubber Co. Ltd. Manufacture of pneumatic tyres. 3,047,450, 7–31–62, Cl. 156—110.
Dralle, Wilhelm: *See*—
Brady, Samuel G., and Dralle. 3,024,577.
Dralle Wilhelm, to Ex-Cell-O Corp. Internal stock divider. 3,038,280, 6–12–62, Cl. 51—277.
Dranetz, Abraham I.: *See*—
Howatt, Glenn N., Dranetz, and Welkowitz. 3,040,301.
Dransfeld, Klaus: *See*—
Bommel, Hans E., and Dransfeld. 3,037,174.
Drapal, Othmar: *See*—
Muth, Friedrich, Drapal, and Bayer. 3,066,166.
Drapal, Othmar, to Farbenfabriken Bayer Aktiengesellschaft. Mothproofing agents. 3,051,616, 8–28–62, Cl. 167—37.
Drapeau, Harold B., to The Dole Valve Co. Combination temperature and pressure sensitive valve structure. 3,017,113, 1–16–62, Cl. 236—34.
Drapeau, Harold B., and P. J. Olsen, to The Dole Valve Co. Snap-on thermostatic valve. 3,027,089, 3–27–62, Cl. 236—34.
Draper Bros. Co.: *See*—
Draper, John H., Jr. 3,067,779.
Jamieson, Thomas A. 3,059,312.
Draper, Charles S.: *See*—
Wrigley, Walter, and Draper. 3,015,962.
Draper Corp.: *See*—
Bliven, Roger, Allen, and Budash. 3,029,159.
Brown, Ralph H., Jr., and Flamand. 3,034,539.
Flamand, Maurice R. 3,066,705.
Fregeolle, Oscar. 3,024,635.
Fregeolle, Oscar. 3,025,688.
Higgins, Theodore S., and Anderson. 3,037,715.
Jackson, Joseph B. 3,037,531.
Laferte, Albert A. 3,052,267.
Lipsky, Eugene S. 3,034,540.
Nichols, Edward C. 3,016,927
Thibault, Harrison N. 3,025,888.
Thibault, Harrison N., and Cugini. 3,023,788.
Villani, Antonio. 3,025,886.
Draper, Frank E., to Draper Multi-Disc Mining Processes Pty. Ltd. Machinery for dressing ore. 3,050,265, 8–21–62, Cl. 241—107.
Draper, John H., Jr., to Draper Bros. Co. Electroconductive papermaker's felt. 3,067,779, 12–11–62, Cl. 139—383.
Draper, Marshall D.: *See*—
Petracek, Francis J., and Draper. 3,017,407.
Petracek, Francis J., and Draper. 3,070,595.
Draper Multi-Disc Mining Processes Pty. Ltd.: *See*—
Draper, Frank E. 3,050,265.
Dratz, Richard A., to Kimberly-Clark Corp. Paper substrate having a coating of mineral pigment, natural adhesive binder, and homopolymer of butadiene. 3,047,427, 7–31–62, Cl. 117—155.
Draughon, John M., and R. L. Van Voorhies, to Esso Research and Engineering Co. Hydraulic dynamometer and process of using same. 3,050,993, 8–28–62, Cl. 73—116.
Dravnieks, Andrew, to Standard Oil Co. Method of cleaning AlCl3-hydrocarbon complex from metals. 3,061,548, 10–30–62, Cl. 252—89.
Dravnieks, Andrew, E. S. Troscinski, and H. A. Birkness, to Standard Oil Co. Apparatus for handling corrosive materials at high pressures and temperatures. 3,056,664, 10–2–62, Cl. 23—290.
Dravo Corp.: *See*—
Hiller, Robert W. 3,062,529.
Koontz, Victor F. 3,064,961.
Reilly, Bertram B. 3,028,854.
Reilly, Bertram B. 3,037,647.
Reilly, Bertram B. 3,041,986.
Reilly, Bertram B. 3,060,869.
Draxler, John A., to The Elwell-Parker Electric Co. Industrial truck with auxiliary lift. 3,019,919, 2–6–62, Cl. 214—82.
Draxler, John A., to The Elwell-Parker Electric Co. Industrial truck. 3,066,807, 12–4–62, Cl. 21—2.
Draxler, Karl J. Adjustable bracket for sliding table top. 3,029,113, 4–10–62, Cl. 311—35.
Drayer, William L., to General Motors Corp. Turbocharger control means. 3,049,865, 8–21–62, Cl. 60—13.
Drayton, John W., to Richard A. Tilghman. Sorting machine. 3,039,605, 6–19–62, Cl. 209—111.5.
Dream Flex, Inc.: *See*—
Broyles, Horace N. 3,060,460.
Dreeben, Jack. Package making apparatus. 3,052,074, 9–4–62, Cl. 53—182.
Dreher, John A., to General Cigar Co., Inc. Shuttle-type dispenser of ribbon segments. 3,060,775, 10–30–62, Cl. 83—100.
Dreher, John L., and J. E. Goodrich, to California Research Corp. High temperature stable grease compositions thickened with tetraimides of dipyromellitic acid anhydrides. 3,025,241, 3–13–62, Cl. 252—51.5.
Dreher, Peter J.: *See*—
Costello, George T., Dickinson, Dreher, and Nicklas. 3,049,173.
Dreher, William A.: *See*—
Goldstein, Irving S., and Dreher. 3,065,087.
Drehmann, Robert W. Floor drains. 3,037,631, 6–5–62, Cl. 210—165.
Dreier, Raymond C. Phonograph pick-up device 3,051,493, 8–28–62, Cl. 274—23.
Dreiling, Peter M., to Hi-Lite Polishing Machine Co. Inc. Apparatus for polishing articles. 3,024,575, 3–13–62, Cl. 51—26.
Dreisbach, Charles A. Fluid filter adapter. 3,027,010, 3–27–62, Cl. 210—239.
Dreisbach, Robert R., and J. F. Mulloy, to The Dow Chemical Co. Non-corrosive textile sizing composition comprising an acrylic polymer and an amine salt. 3,048,554, 8–7–62, Cl. 260—29.6.
Dreisin, Alexander, to Allis-Chalmers Mfg. Co. Self-locking nozzle gasket. 3,038,456, 6–12–62, Cl. 123—32.
Dreiske, Erwin J., to Electro-Voice, Inc. Tachometer. 3,064,184, 11–13–62, Cl. 324—70.
Dreiss, Philipp, to Vereinigte Kapselfabriken Nackenheim G.m.b.H. Bottle caps. 3,024,934, 3–13–62, Cl. 215—46.
Dreissen, Hubert H.: *See*—
Fontein, Freerk J., Dreissen, and Jennekens. 3,037,629.
Drell, Leonard. Method and apparatus for dispensing. 3,058,662, 10–16–62, Cl. 239—308.
Drell, Leonard B., and L. R. Rubin, to Industries, Inc. Method for producing sprayable composition. 3,038,816, 6–12–62, Cl. 106—287.
Dremel, Albert J. and R. E., to Dremel Mfg. Co. Combined control for base and motor of electric shoe polisher. 3,069,710, 12–25–62, Cl. 15—56.
Dremel Mfg. Co.: *See*—
Dremel, Albert J. and R. E. 3,069,710.
Dremel, Robert E.: *See*—
Dremel, Albert J. and R. E. 3,069,710.
Drenck, Carl: *See*—
Drenck, Kaj. 3,069,547.
Drenck, Kaj, to C. Drenck. X-ray apparatus. 3,069,547, 12–18–62, Cl. 250—103.
Drennan, Emil J. Swimming pool cleaner. 3,046,583, 7–31–62, Cl. 15—1.7.
Drennan, James G., to Owens-Illinois Glass Co. Bottle handling apparatus. 3,068,990, 12–18–62, Cl. 198—33.
Drenning, John F., to The Carborundum Co. Composition for metallurgical use and process of using the same. 3,051,564, 8–28–62, Cl. 75—53.
Drenning, John W.: *See*—
Thomas, John B., and Drenning. 3,059,394.
Dresback, David D., to Beaver Tool & Engineering Corp. Tool holder and tool shank construction. 3,022,084, 2–20–62, Cl. 279—83.
Drescher, John F.: *See*—
Boden, Ogden W., and Drescher. 3,063,550.
Drescher & Kiefer and Randolph-Rand Corp.: *See*—
Reitzel, Georg. 3,024,899.
Dresen, Esbern H. Remotely powered rotary toothbrush. 3,023,437, 3–6–62, Cl. 15—23.
Dresing, Fritz. Equipment for the combustion of oils of differing viscosity by means of atomization in light-oil burners. 3,067,809, 12–11–62, Cl. 158—36.3.
Dressen-Barnes Electronics Corp.: *See*—
McNamee, Bernard F. 3,065,399.
Dresser Industries, Inc.: *See*—
Alder, Robert L. 3,058,532.
Barnett, Paul B. 3,015,500.
Brokaw, Adrian P. 3,019,413.
Broome, Marshall B. 3,061,734.
Czipott, Akos Z. 3,032,731.
Dale, John M. 3,056,613.
Doyle, Collin M., and Costello. 3,050,238.

Dresser Industries, Inc. : *See*—Continued
Erath, Louis W. 3,023,403.
Erath, Louis W. 3,044,014.
Erath, Louis W., Madeley, and Hefer. 3,044,042.
Fabian, Francis G., Jr., Mann, Knippenberg, and Wainerdi. 3,049,617.
Fabian, Francis G., Jr., and Paterson. 3,036,601.
Ferris, John T. 3,040,620.
Floyd, Acey L., Jr. 3,029,018.
Halterman, James W. 3,064,983.
Hennig, Fritz O. 3,044,263.
Hollmann, Hans E. 3,035,449.
Hollmann, Hans E. 3,043,143.
Isaacson, Walter P. 3,018,839
Jeter, John D. 3,065,416.
Johnson, James H. 3,033,525.
Kish, George D. 3,024,130.
Lamb, Jefferson P. 3,069,619.
Langley, Lawrence W. 3,045,210.
Marks, Albert B. 3,056,464.
Meddick, Lorrain D. 3,054,938.
McLerran, Archie R. 3,020,780.
McLerran, Archie R., and McFadden. 3,025,872.
McManis, Louis B. 3,042,754.
Patterson, Henry B., Jr. 3,038,090.
Risley, Roger E. 3,045,511.
Risley, Roger E. 3,070,190.
Risley, Roger E., and Mann. 3,045,512.
Shipes, Kelly V. 3,039,069.
Smith, Robert W., and Vaughan. 3,042,309.
Swift, Gilbert. 3,067,519.
Ternow, Helmut G. 3,019,841.
Vaughattis, Alexis. 3,066,736.
Dresser, James R., and R. A. Rosenthal ; said Dresser assor. of 37½ % to R. N. Howton. Building construction. 3,031,043, 4–24–62. Cl. 189—34.
Dressler, Carol M. Sea-sprite ear plugs. 3,050,056, 8–21–62, Cl. 128—151.
Dressler, Heinz, to North American Philips Co., Inc. Accessory, in particular hair-clipping fixtures. 3,036,378, 5–29–62. Cl. 30—90.
Dressler, Robert, and A. B. Jacobs, to Autometric Corp. Electric analogue circuit and method. 3,034,723, 5–15–62, Cl. 235—184.
Dretzke, Carl F., and L. R. Anderson. Devices for unloading materials from silos and other storage facilities. 3,055,649, 9–25–62. Cl. 262—19.
Drevalas, Constantine N. : *See*—
Black, Robert H., and Drevalas. 3,061,163.
Drevalas, Constantine N., to Western Electric Co., Inc. Molding machine. 3,049,758, 8–21–62, Cl. 18—42.
Drew Chemical Corp. : *See*—
Babayan, Vigen K., and Comes. 3,051,577.
Knafo, Guy, Fuhrmann, Neesby, and Babayan. 3,021,324.
Drew, Robert D. : *See*—
Bourguet, Jean M., and Drew. 3,049,013.
Drew, Robert D., to Socony Mobil Oil Co., Inc. Method for heating granular solids. 3,051,466, 8–28–62, Cl. 263—52.
Drewes, Henke, Jr., to Martin-Marietta Corp. Evacuating coupling. 3,044,275. 7–17–62, Cl. 62—268.
Drewitt, James G. N. : *See*—
Wylde, Joseph R., and Drewitt. 3,022,545.
Drewry, Montrose K., to Foster Wheeler Corp. Air heater. 3,039,745, 6–19–62, Cl. 257—264.
Drews, William P., to Esso Research and Engineering Co. Method of removing water vapor from the gaseous products in a hydroforming process. 3,032,495, 5–1–62, Cl. 208—95.
Drexel Dynamics Corp. : *See*—
Briggs, Thomas H., and Hollenbach. 3,016,489.
Drexelius, Victor W. : *See*—
Williams, Charles O., Drexelius, and Smith. 3,062,146.
Drexelius, Victor W., to Olin Mathieson Chemical Corp. Metal forming. 3,036,373, 5–29–62, Cl. 29—421.
Drexler, Jerome, to Bell Telephone Laboratories, Inc. Magnetron. 3,034,014, 5–8–62, Cl. 315—39.77.
Dreyer, Herbert. Vibrator tool. 3,061,278, 10–30–62, Cl. 259—1.
Dreyer, Leroy : *See*—
Fry, William J, and F. J., and Dreyer. 3,051,167.
Dreyer, Ulrich, and W. Kirst, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning Azo-dyestuffs insoluble in water. 3,058,974, 10–16–62, Cl. 260—147.
Dreyer, William H., to Cummins-Chicago Corp. Document handling apparatus. 3,033,445, 5–8–62, Cl. 234—69.
Dreyer, William H., and H. W. Schreiter, to Cummins-Chicago Corp. Apparatus for sensing and reproducing perforations. 3,049,286, 8–14–62, Cl. 234—51.
Dreyfoos, Alex W., Jr., R. V. Mazza, W. A. Radke, and A. A. Staley, to International Business Machines Corp. High density, erasable optical image recorder. 3,055,006, 9–18–62, Cl. 346—74.
Dreyfus, Paul : *See*—
Charles, Daniel R., Velte, Dreyfus, and Pamelard. 3,041,-840.
Dreyfus, Robert L. : *See*—
Harrison, John W., Ford, Dreyfus, and Howe. 3,039,664.
Dreyfus, Robert L., to W. R. Grace & Co. Packaging. 3,060,-655, 10–30–62, Cl. 53—30.
Dreyfus, Robert L., J. W. Harrison, and R. D. Lowry, to W. R. Grace and Co. Vacuum forming of plastic material. 3,022,614, 2–27–62, Cl. 53—30.
Dreyfus, Robert L., and J. W. Harrison, to W. R. Grace & Co. Method of packaging foodstuff. 3,050,402, 8–21–62, Cl. 99—174.
Dreyfuss, Paul D., B. Gaspar, and G. B. Linden, to Minnesota Mining and Mfg. Co. Photographic material and process. 3,053,655, 9–11–62, Cl. 96—20.
Driancourt, Jean E., to Compagnie de Pont-A-Mousson. Sealing ring for a pipe joint and the joint incorporating this ring. 3,020,054, 2–6–62, Cl. 277—170.
Dries, Jerome F., to Cutler-Hammer, Inc Electric switch. 3,016,440, 1–9–62, Cl. 200—166.
Driessen, Augustin, and H. de Saint Chamant, to Centre d'Etudes et de Recherches des Phosphates Mineraux Cerphos. Method of uranium recovery. 3,044,848, 7–17–62, Cl. 23—14.5.
Drilco Oil Tools, Inc. : *See*—
Garrett, William R. 3,033,011.
Moore, Stanley C., Rollins, and Bachman. 3,063,759.
Drill Development Co. : *See*—
Bergstrom, Frank S. 3,018,891.
Drillick, Jacob H., to Telecomputing Corp. Tape perforating apparatus. 3,035,762, 5–22–62, Cl. 234—115.
Drillick, Jacob H., to Monroe Calculating Machine Co. Sensing device. 3,051,384, 8–28–62, Cl. 235—61.11.
Drillick, Jacob H., to Photottypograph Corp. High speed serial printer apparatus. 3,065,835, 11–27–62, Cl. 197—2.
Drilling Control Corp. : *See*—
Lemons, Roy. 3,038,763.
Drillmaster Oil Tools, Inc. : *See*—
Bullington, William B. 3,070,356.
Drill-O-Matic, Inc. : *See*—
Langford, Jerrel. 3,049,339.
Drilprodco, Inc. : *See*—
Sullivan, Daniel W. 3,020,952.
Wagnon, Hubert H., and Blair. 3,054,466.
Dring, Morgan L., to The Bendix Corp. Digital type angle counter. 3,018,043, 1–23–62, Cl. 235—117.
Driscoll, John E., to Cesco Container Mfg. Corp. Bottle carrier. 3,065,988, 11–27–62, Cl. 294—87.2.
Driscoll, John M., to Consolidated Edison Co. of New York, Inc. Unitized arrangement of auxiliaries in power system generation. 3,068,653, 12–18–62, Cl. 60—70.
Drisko, Thomas E., Jr. : *See*—
Dance, Eldred L., Drisko, and McLain. 3,021,922.
Dritz, Arthur. Apparatus for securing together superposed piles of cloth or plastic sheets. 3,031,349, 4–24–62, Cl. 156—513.
Dritz, Arthur. Mechanical aid for covering belt buckles. 3,058,865, 10–16–62, Cl. 154—53.5.
Driver, William B. Automatic brake control for a rotary drilling rig. 3,031,236, 4–24–62, Cl. 303—71.
Drobilits, Martin E. : *See*—
Lantz, George H., and Drobilits. 3,027,569.
Drobish, William M. : *See*—
Bartow, Walter T., and Drobish. 3,038,199.
Drobne, John R. : *See*—
Cope, Richard P., Jr., and Drobne. 3,041,257.
Drobnick, James L., and C. J. Lewis, to General Millis, Inc. Process for recovering tungsten values from solution. 3,052,516, 9–4–62, Cl. 23—51.
Droege, Frederick J., H. J. Klotz, and M. P. Marcus, to International Business Machines Corp. Alpha-numeric hole checking system. 3,024,980. 3–13–62. Cl. 235—61.7.
Droescher, Le Roy A., to C. H. Wheeler Mfg. Co. Means for dissipating the energy of steam in large quantities. 3,070,157, 12–25–62, Cl. 165—1.2.
Drogin, Edwin M. : *See*—
Durbin, Edward, and Drogin. 3,034,119.
Droitcour, Howard A. and J. M. Relief valve. 3,040,771, 6–26–62, Cl. 137—489.3.
Droitcour, John M. : *See*—
Droitcour, Howard A. and J. M. 3,040,771.
Drollinger, Clarence O., and R. L. Yarnall, to Texas Instruments Inc. Plug-in slip ring and brush assembly. 3,017,595, 1–16–62, Cl. 339—8.
Drolshammer, Elnar J. Roll paper dispenser. 3,050,224, 8–21–62, Cl. 225—38.
Dronsfield Brothers Ltd. : *See*—
Tiffin, Thomas, and Buckley. 3,065,612.
Droppa, Josef : *See*—
Schleifer, Josef, Fleck, Droppa, and Muller. 3,030,545.
Dros, Albert A. : *See*—
Köbler, Jacob W. L., Dros, and Ijzer. 3,033,003.
Drost, Peter : *See*—
Neumann, Helmut, and Drost. 3,037,092.
Drosten, Fred W., S. V. Weglarz, and R. C. Robinson, ½ to Republic Steel Corp. and ½ to Vitro Corp. of America. Method of coating ferrous articles with titanium. 3,058,-841, 10–16–62, Cl. 117—102.
Drosten, Fred W., and T. B. Kaczmarek, to Republic Steel Corp. and Crane Co. Process for introduction of titanium tetrachloride. 3,062,641, 11–6–62, Cl. 75—84.5.
Drott Mfg. Corp. : *See*—
Baudhuin, George J. Re. 25,145.
Baudhuin, George J. 3,059,782.
Baudhuin, George J. and Petersen. Re. 25,280.
Stearn, Richard A. Re. 25,276.
Droullard, Emerson K. Kite line space carrier. 3,034,751, 5–15–62, Cl. 244—155.

Dru, Marcel: *See*—
Logojda, Geza, Poussardin, and Dru. 3,040,889.
Druckey, Donald L.: *See*—
Beckner, Bernard E. 3,045,219.
Drueck, Fred, Jr. Animated display sign. 3,027,667, 4–3–62, Cl. 40—104.
Druey, Jean, and H. Isler, to Ciba Pharmaceutical Products Inc. New sulfonamides and method for preparing same. 3,026,319, 3–20–62, Cl. 260—239.7.
Druey, Jean, and K. Meier, to Ciba Pharmaceutical Products Inc. Certain derivatives of 4-(aminophenylmercapto)-pyridine. 3,033,870, 5–8–62, Cl. 260—294.8.
Druey, Jean, P. Schmidt, K. Eichenberger, and M. Wilhelm, to Ciba Corp. Sulfonilamido-pyrazolo [3,4-d]-pyrimidines. 3,036,070, 5–22–62, Cl. 260—239.65.
Druey, Jean, P. Schmidt, K. Eichenberger, and M. Wilhelm, to Ciba Corp. N-pyrazinyl-benzene sulfonamides. 3,055,-899, 9–25–62, Cl. 260—250.
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Druey, Jean, K. Eichenberger, P. Schmidt, and A. Rossi, to Ciba Corp. O-(aminoalkyl)oxamine derivatives of heterocyclic aldehydes and ketones. 3,060,177, 10–23–62, Cl. 260—240.
Druey, Jean, and K. Eichenberger, to Ciba Corp. Hydroxamic acid esters of alkanolamines. 3,060,185, 10–23–62, Cl. 260—294.
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Drugmand, Lester D., to Edwin L. Wiegand Co. Electric heating elements. 3,048,688, 8–7–62, Cl. 219—37.
Drukey, Donald L.: *See*—
Beckner, Bernard E., Irving, and Drukey. 3,062,922.
Drukey, Donald L., to Thompson Ramo Wooldridge Inc. Compensation network. 3,048,664, 8–7–62, Cl. 179—100.2.
Drukey, Donald L., J. B. Irving, and D. E. Wooldridge, to Thompson Ramo Wooldridge Inc. Transducing method and system. 3,063,040, 11–6–62, Cl. 340—174.1.
Drukker, John J., to The Patent and Licensing Corp. Coated bituminized fiber pipe. 3,039,495, 6–19–62, Cl. 138—145.
Drukker, Willard D.: *See*—
Bach, Chester C., Clark, Drukker, Klenke, Lenk, and Runze. 3,016,448.
Drukker, Willard D., to Western Electric Co., Inc. Lead straightening device. 3,028,886, 4–10–62, Cl. 140—147.
Drum, John J., to General Electric Co. Wave guiding system and method. 3,048,804, 8–7–62, Cl. 333—98.
Drum, Leslie: *See*—
Koons, Frederick L., and Drum. 3,049,450.
Drum-Atic Corp.: *See*—
Parks, Walter. 3,040,351.
Drummond, Alan Y.: *See*—
Anderson, Robert G., Stuart, and Drummond. 3,018,247.
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Drummond, Alan Y., R. G. Anderson, and F. A. Stuart, to California Research Corp. Alkenyl succinimides of piperazines. 3,024,237, 3–6–62, Cl. 260—268.
Drummond, Folsom E., to Union Carbide Corp. Gas plating cerium. 3,049,797, 8–21–62, Cl. 29—194.
Drummond, Folsom E., to Union Carbide Corp. Gaseous metal product and processes. 3,055,089, 9–25–62, Cl. 29—196.
Drummond, Folsom E., to The Commonwealth Engineering Co. of Ohio. Boron containing fuels. 3,070,472, 12–25–62, Cl. 149—22.
Drummond, Folsom E., to Basic Research Corp. Fire resistant compound. 3,070,604, 12–25–62, Cl. 260—313.
Drummond, Folsom E., to Basic Research Corp. Process for producing polyisocyanates from polyamines and carbon monoxide. 3,070,618, 12–25–62, Cl. 260—453.
Drummond, Joseph E.: *See*—
Smith, Clarence J., Henrickson, and Drummond. 3,053,-209.
Drummond, Joseph E., to Anderson Bros. Mfg. Co. Foldable box. 3,029,996, 4–17–62, Cl. 229—36.
Drummond, Virgil D., M. L. Gould, and R. Katzen, to Vulcan-Cincinnati, Inc. Catalytic reactor. 3,055,745, 9–25–62, Cl. 23—288.
Drumpelmann, Carlton T., to Union Carbide Corp. Mounting for heavy duty battery. 3,052,201, 9–4–62, Cl. 114—20.
Drumstick, Inc.: *See*—
Erickson, Leonard A. 3,032,237.
Drury, Samuel F., Jr., to Minneapolis-Honeywell Regulator Co. Photographic light meter. 3,057,254, 10–9–62, Cl. 88—23.
Drutchas, Gilbert H., to Thompson Ramo Wooldridge, Inc. Slipper-type pump having flow control means. 3,068,797, 12–18–62, Cl. 103—42.
Druz, Walter S.: *See*—
Adler, Robert, and Druz. 3,029,308.
Dry, Neal E., and W. P. Scott, to Continental Oil Co. Antiseep agent. 3,042,620, 7–3–62, Cl. 252—72.
Dryden, Eva. Sponge implement having a detachable holder. 3,058,139, 10–16–62, Cl. 15—244.
Dryer, Henry V.: *See*—
McCloud, George R., and Dryer. 3,032,630.
Drysdale, John. Connectors for jointing wires, rods and the like. 3,033,600, 5–8–62, Cl. 287—114.
Drysdale, John J., to E. I. du Pont de Nemours and Co. Process for preparing perfluoroalkanedioic acids. 3,062,-879, 11–6–62, Cl. 260—537.
Du-Al Mfg. Co.: *See*—
Crampton, Carl T. 3,044,562.
Crampton, Carl T. 3,055,521.
Dual Mfg. & Engineering, Inc.: *See*—
Belisle, Adelard J., Allyn, and Re. 3,058,774.
Belisle, Adelard J., Allyn, and Re. 3,069,201.
Duane, James T., to General Electric Co. Alternator control system. 3,017,562, 1–16–62, Cl. 322—46.
Dubach, Hansruedi: *See*—
Apotheloz, Robert, and Dubach. 3,034,438.
Dubach, Kenneth F. Anti-fogging ventilated goggle. 3,031,-675, 5–1–62, Cl. 2—14.
Dubats, Edward T., to Western Electric Co., Inc. Cutting apparatus for sheet material. 3,041,908, 7–3–62, Cl. 83—568.
Dubay, Frank X. Rug scrubbing machine. 3,061,859, 11–6–62, Cl. 15—50.
Dubberley, Charles A., to General Electric Co. Reversible refrigeration system. 3,066,497, 12–4–62, Cl. 62—299.
Dubbury, John, J. M. Frost, and T. D. Earl. Vertical takeoff aircraft. 3,065,935, 11–27–62, Cl. 244—23.
Dube, Maurice T.: *See*—
Laing, Lester M., and Dube. 3,035,715.
Dubetz, Alex, and R. D. Van Arnam, to The Firestone Tire & Rubber Co. High speed tire. 3,057,389, 10–9–62, Cl. 152—210.
Dubie, Orville L., and L. W. Wolfe. Automatic poultry curtain raiser. 3,042,001, 7–3–62, Cl. 119—21.
Dubillier, William, to Cornell-Dubilier Electric Corp. Capacitor tab insertion. 3,018,064, 1–23–62, Cl. 242—56.1.
Dublon, Inc.: *See*—
Rosenfelder, William J., and Rosen. 3,046,237.
Dubner, Harvey A., to ACF Industries, Inc. Multi-cell IR search system. 3,041,460, 6–26–62, Cl. 250—208.
Du Bois, Albert and Armand. Sugar spinning machine. 3,019,745, 2–6–62, Cl. 107—8.
Du Bois, Armand: *See*—
Du Bois, Albert and Armand. 3,019,745.
Du Bois, Edgar H., A. J. Mazzio, and L. G. Birr, to A. B. Dick Co. Timer for photocopy machine. 3,055,222, 9–25–62, Cl. 74—3.52.
Du Bois, Eliot: *See*—
Saunderson, Jason L., and Du Bois. 3,064,520.
Dubois, Eloi: *See*—
Robitaille, Robert, and Dubois. 3,032,775.
Dubois, Georges, to A. Schild, S.A. Bearing arrangement. 3,015,526, 1–2–62, Cl. 308—135.
Du Bois, Marvin A. Viscous material system. 3,034,543, 5–15–62, Cl. 141—21.
Du Bois, Marvin A. Cable trays. 3,042,351, 7–3–62, Cl. 248—49.
Dubois, Maurice H.: *See*—
Dubois, Paul R. and M. H. 3,051,976.
Du Bois, Norman L., to General Precision, Inc. Multiplying circuit. 3,070,306, 12–25–62, Cl. 235—179.
Dubois, Paul R. and M. H., to Granby Industrial Brush Reg'd, and Mahon Hardware Mfg. Co. Ltd. Connector assembly for mops. 3,051,976, 9–4–62, Cl. 15—144.
Du Bois, Robert C., to Manning, Maxwell & Moore, Inc. Method of making a pressure guard of the diaphragm capsule type. 3,026,611, 3–27–62, Cl. 29—454.
Du Bois, Robert E. Resistor structure. 3,027,532, 3–27–62, Cl. 338—280.
Du Bois, William H., to The Bendix Corp. Lining buttonspring loaded. 3,064,782, 11–20–62, Cl. 192—107.
Dubonnet, André, to Societe Anonyme pour l'Exploitation de Brevets d'Appareils Electroniques Codelec. Lockable push-button arrangement. 3,018,652, 1–30–62, Cl. 70—218.
Dubonnet, Andre, to Societe Anonyme pour l'Exploitation de Brevets d'Appareils Electroniques Codelec. Push-button operator. 3,036,453, 5–29–62, Cl. 70—207.
Du Bord, Olivet D. Holder for a flexible electrical conduit. 3,059,302, 10–23–62, Cl. 24—211.
Du Bosque, Clayton, Jr. Instructional amusement device. 3,048,403, 8–7–62, Cl. 273—130.
Dubouchet, Jacques L. M., to Neyrpic, Etablissements. Regulating of compensated floats for control of automatic gates. 3,066,490, 12–4–62, Cl. 61—25.
Du Broff, Warren: *See*—
Barski, Julius J. 3,042,230.
Du Broff, Warren. Caser for cartons. 3,047,990, 8–7–62, Cl. 53—166.
Du Broff, Warren. Conveyor traffic controller. 3,064,792, 11–20–62, Cl. 198—32.
Du Broff, Warren, E. E. Hageline, and J. J. Barski, to W. Du Broff. Case handling equipment. 3,055,478, 9–25–62, Cl. 198—27.
Dubský, Bořivoj. O. Straka, and J. Bican, to Vyzkummy a zkusebni letecky ustav. Electromagnetic recording apparatus. 3,017,575, 1–16–62, Cl. 324—99.
Dubsky, Borivoj, O. Straka, and B. Trefil, to Vyzkumny a zkusebni letecky ustav. Torsional magnetostriction feeler apparatus employing feedback. 3,020,461, 2–6–62, Cl. 318—28.

Dubsky, Borivoj, O. Straka, and F. Rajhel, to Vyzkumny a zkusebni letecky ustav. Electromagnetic torsiometer. 3,023,614, 3–6–62, Cl. 73—136.

Dubsky, Borivoj, O. Straka, J. Jiřik, and V. Sedlacek, to Vyzkumny a zkusebni letecky ustav. Indirectly excited electromagnetic feeler. 3,026,491, 3–20–62, Cl. 336—20.

Dubsky, Borivoj, O. Straka, H. Felkel, and R. Feuereisl, to Vyzkumny a Zkusebni letecky ustav. Spirometer. 3,035,-569, 5–22–62, Cl. 128—2.07.

Dubsky, Borivoj, and O. Straka, to Vyzkumny a zkusebni letecky ustav. Electromagnetic device for measuring pressure. 3,039,044, 6–12–62, Cl. 323—90.

Dubsky, Borivoj, O. Straka, J. Jahelka, and V. Sedlacek, to Vyzkumny a zkusebni letecky ustav. Electromagnetic circuits for indirectly excited electromagnetic feelers. 3,042,-858, 7–3–62, Cl. 324—34.

Dubsky, Borivoj, O. Straka, H. Felkel, and R. Feuereisl, to Vyzkumny a zkusebni letecky ustav. Spirograph. 3,045,-666, 7–24–62, Cl. 128—2.08.

Dubuisson, Jacques: *See*—
Humbert, Jacques, Dubuisson, and Moranville. 3,025,156.

Ducati, Adriano C.: *See*—
Giannini, Gabriel M., and Ducati. 3,066,528.

Ducati, Adriano C., to Plasmadyne Corp. Wind tunnel apparatus making use of the momentum of electrical plasma. 3,055,213, 9–25–62, Cl. 73—147.

Ducati, Adriano C., and V. H. Blackman, to Plasmadyne Corp. Spectroscopic light source and method. 3,055,262, 9–25–62, Cl. 88—14.

Du Chaffaut, Roger, to Societe Chimique de la Grande Paroisse (Azote & Produits Chimiques). Utilization circuit for catalytic furnaces. 3,067,017, 12–4–62, Cl. 23—277.

Ducharme, Alfred. Recoil absorber for a firearm. 3,019,543, 2–6–62, Cl. 42—74.

Ducharme, Joseph J., H. S. Black, Jr., and S. J. Leith, to National Starch and Chemical Corp. Deep-fried food batter mix. 3,052,545, 9–4–62, Cl. 99—1.

Ducimetiere, René: *See*—
Iapella, Arnaldo, Lécolle, and Ducimetiere. 3,016,692.

Duck, Edward W., and K. L. Fletcher, to Shell Oil Co. Polymerization catalysts and processes therefor. 3,061,-602, 10–30–62, Cl. 260—94.9.

Duckett, John W. Boat hook and docker. 3,048,139, 8–7–62, Cl. 114—221.

Duckitt, Harry, and W. M. Sweetenham, to Westinghouse Brake and Signal Co. Ltd. Railway track circuit apparatus. 3,046,390, 7–24–62, Cl. 246—35.

Ducommun, Alan N. Catamaran. 3,039,416, 6–19–62, Cl. 114—61.

Ducrot, Albert. Convertible sofa with twin spring-mattresses. 3,025,535, 3–20–62, Cl. 5—42.

Ducrot, Albert. Convertible sofa-bed. 3,046,571, 7–31–62, Cl. 5—41.

Duddy, James J. Adjustable lamp. 3,066,219, 11–27–62, Cl. 240—47.

Duddy, Joseph C., to The Electric Storage Battery Co. Vent plug. 3,033,911, 5–8–62, Cl. 136—177.

Duddy, Joseph C., to The Electric Storage Battery Co. Method of treating storage battery electrodes. 3,067,273, 12–4–62, Cl. 136—27.

Dude, Robert N.: *See*—
Stein, Russell G. 3,024,524.

Duden, Robert W., 45% to C. G. Patton. Golf putter. 3,062,-549, 11–6–62, Cl. 273—81.3.

Dudley, Arthur R., T. H. Royder, and W. D. Allison, to Esso Research and Engineering Co. Slurry filtration. 3,043,431, 7–10–62, Cl. 210—82.

Dudley, Edmond R., to Peerless Equipment Co. Motion and void control device. 3,018,437, 1–23–62, Cl. 324—34.

Dudley, Edmond R., to Peerless Equipment Co. Flow control device. 3,032,709, 5–1–62, Cl. 324—41.

Dudley, Harold A., to The S. E. Hyman Co. Seat cover. 3,033,613, 5–8–62, Cl. 297—219.

Dudley, Harvey H.: *See*—
Kindig, Guilford E., and Dudley. 3,057,573.

Dudley, John S., to Whitin Machine Works. Silver coiling mechanism. 3,032,832, 5–8–62, Cl. 19—159.

Dudley, Kenneth W., and J. H. Apelbaum, to Raytheon Co. Electron tube cathodes. 3,018,404, 1–23–62, Cl. 313—346.

Dudley, Vernon E., to Gala Industries, Inc. Clamp. 3,026,-592, 3–27–62, Cl. 24—248.

Dudley, Victor I., to Joy Mfg. Co. Reeling device. 3,061,-233, 10–30–62, Cl. 242—86.51.

Dudley, Walter. Windscreen wipers. 3,026,555, 3–27–62, Cl. 15—250.2.

Dudley, William A., to Merla Tool Corp. Flow valve devices. Re. 25,292, 12–4–62, Cl. 137—155.

Dudley, Wray E., A. R. J. Friedmann, and C. L. Paullus, to The Skinner Irrigation Co. Sprinklers. 3,038,666, 6–12–62, Cl. 239—206.

Dudnikov, Mitchell, to The Harshaw Chemical Co. Non-flocculating phthalocyanine blue pigments. 3,028,392, 4–3–62, Cl. 260—314.5.

Dudziak, Chester, to United States of America, Air Force. Gain control. 3,024,424, 3–6–62, Cl. 330—173.

Dudzik, Francis R.: *See*—
Rainer, William C., Bump, and Dudzik. 3,062,758.

Dueger, Laverne E.: *See*—
Bentley, George P., and Dueger. 3,020,769.

Duell, Morgan V., to Scovill Mfg. Co. Hair clip. 3,025,581, 3–20–62, Cl. 24—259.

Duenke, Clarence G., to Moloney Electric Co. Liquid-immersed electrical device. 3,066,207, 11–27–62, Cl. 200—150.

Duennenberger, Max: *See*—
Siegrist, Adolf E., and Duennenberger. 3,033,720.

Duennenberger, Max, E. Maeder, and A. E. Siegrist, to Ciba Ltd. New oxazole compounds. 3,036,084, 5–22–62, Cl. 260—296.

Duerdoth, Winston T., to Her Majesty's Postmaster General. Transistorized pulse modulation converter and demodulator. 3,068,421, 12–11–62, Cl. 329—109.

Duerksen, Arnold, to Super Mold Corp. of California. Vacuum system for temporary reduction of the diameter of a tire. 3,015,845, 1–9–62, Cl. 18—18.

Duerksen, Arnold, to Super Mold Corp. of California. Power rim tool. 3,031,743, 5–1–62, Cl. 29—252.

Duerksen, Arnold, to Super Mold Corp. of California. Mobile support for a tire spreader. 3,033,521, 5–8–62, Cl. 254—50.4.

Duerksen, Arnold, to Super Mold Corp. of California. Band-type retreading mold for tires. 3,060,508, 10–30–62, Cl. 18—38.

Duerr, Herman H., to General Aniline & Film Corp. Color balance and density evaluation device. 3,049,967, 8–21–62, Cl. 88—24.

Duerr, Herman H., to General Aniline & Film Corp. Image transfer process. 3,060,022, 10–23–62, Cl. 96—28.

Duesbiser, Paul H., to Controls Co. of America. Coil mounting. 3,050,703, 8–21–62, Cl. 336—67.

Duesel, Bernard F., S. Emmanuele, and R. G. Kadesch, to Nepera Chemical Co., Inc. Method of preparing fluorinated compounds. 3,064,058, 11–13–62, Cl. 260—646.

Duesenberg, Denny D., to Ford Motor Co. Connecting rod assembly. 3,062,596, 11–6–62, Cl. 308—74.

Duethman, Ray L., and J. C. Larson, to Minneapolis-Honeywell Regulator Co. Control apparatus. 3,037,724, 6–5–62, Cl. 244—77.

Du Fault, Homer D., and W. J. Kuhm, to Heatbath Mfg. Co., Inc. Poultry brooders. 3,027,888, 4–3–62, Cl. 126—85.

Dufault, Jack. Shoe cleaning device. 3,060,475, 10–30–62, Cl. 15—36.

Dufaylite Developments Ltd.: *See*—
Daponte, Demetre, and May. 3,032,458.

Du Ferodo, Societe Anonyme Francaise: *See*—
Lepelletier, Pierre A. 3,033,324.
Maurice, Jean, and Rist. 3,042,164.
Stenger, Maximilien. 3,060,705.

Duff Devices, Inc.: *See*—
Kalbfleisch, Adolphe W. 3,048,398.

Duffer, James C.: *See*—
Cox, George R., and Duffer. 3,055,642.

Duffield, Albert J.: *See*—
Ciarleglio, Louis F., Duffield, Staba, and Suffredini. 3,031,746.

Duffield, Albert J., to Olin Mathieson Chemical Corp. Metal forming. 3,061,908, 11–6–62, Cl. 29—1.3.

Duffield, Joseph F., to Amalgamated Electric Corp., Ltd. Switching assembly. 3,053,957, 9–11–62, Cl. 200—166.

Duffin, Bernard G., and N. T. Sanders, to Needle Industries Ltd. Keeps for knitting needles or other rod-like articles. 3,019,500, 2–6–62, Cl. 24—81.

Duffin, George F., to Ilford Ltd. Direct positive emulsions containing N-oxides. 3,050,395, 8–21–62, Cl. 96—101.

Duffin, Robert K., to Pierce & Stevens Chemical Corp. Reenforced wood article of manufacture. 3,025,062, 3–13–62, Cl. 273—82.

Duffin, Paul, to Siemens-Schuckertwerke Aktiengesellschaft. Liquid-break circuit interrupters. 3,045,087, 7–17–62, Cl. 200—150.

Duff-Norton Co.: *See*—
Carroll, Charles. 3,018,739.
Carroll, Charles. 3,033,398.
Carroll, Charles. 3,056,480.

Duffy, Edward F., to La Crosse Trailer Corp. Tractor-trailer drawbar coupling. 3,027,030, 3–27–62, Cl. 214—505.

Duffy, James J., to Ford Motor Co. Automatic transmission controls. 3,022,673, 2–27–62, Cl. 74—472.

Duffy, James J., to Ford Motor Co. Fluid pressure governor mechanism. 3,048,184, 8–7–62, Cl. 137—51.

Duffy, John P. Hard-toe attachment for shoes. 3,037,304, 6–5–62, Cl. 36—72.

Duffy, Philip A., Jr., to Westinghouse Electric Corp. Electrical mearing systems. 3,036,217, 5–22–62, Cl. 250—100.

Duffy, Wayne E., to North American Aviation, Inc. Method of processing polyphenyl nuclear reactor coolant. 3,062,-728, 11–6–62, Cl. 204—154.2.

Du-Fold Mfg. Co., The: *See*—
Trentel, Paul A. 3,023,438.

Du Four, Ernest E., to Ekco Products Co. Latch unit. 3,065,-985, 11–27–62, Cl. 292—103.

Dufour, Raymond J., and W. C. Isley. Meter proving means. 3,050,980, 8–28–62, Cl. 73—3.

Dufour, Roland, to Societe d'Etudes et Conseils A.E.R.O. Remotely controlled valve system. 3,063,468, 11–13–62, Cl. 137—552.5.

Dugan, David J.: *See*—
Stitt, James R., and Dugan. 3,031,044.

Dugan, George E.: *See*—
Scott, Harry A., and Dugan. 3,058,764.

Dugas, Kennedy J.: *See*—
Cason, Lloyd D., and Dugas. 3,048,227.

Dugas, Rebert J. Muffler for an internal combustion engine. 3,016,972, 1–16–62, Cl. 181—56.
Duggan, Charles B. Overshoe rack. 3,061,108, 10–30–62, Cl. 211—37.
Duggan, Daniel D. : *See*—
Hergenrother, Rudolf C., Luftman, Sawyer, and Duggan. 3,068,548.
Duggan, Lee M. Novelty reflector device for self-viewing of a person by reflection. 3,022,709, 2–27–62, Cl. 88—84.
Duggins, Kay B., to E. I. du Pont de Nemours and Co. Precipitation apparatus. 3,018,091, 1–23–62, Cl. 259—9.
Duggins, William E., to General Aniline & Film Corp. Dihalogenopropynes as soil fumigants. 3,018,218, 1–23–62, Cl. 167—22.
Dugliss, Charles H. : *See*—
Schlegel, John C., Jr., and Dugliss. 3,026,283.
Dugone, Joseph : *See*—
Kraus, Gerard, and Dugone. 3,023,188.
Dugre, Joseph A. R. to Canadian Westinghouse Co. Ltd. Packing container 3,069,008, 12–18–62, Cl. 206—65.
Duguid, Howard Q., to Shell Oil Co. Transfer of heat from superheated vapor in a condensing heat exchanger. 3,063,-681, 11–13–62, Cl. 257—40.
Duhaime, Raymond A., and S. W. Lasto, to Air-Vac Engineering Co. Vacuum creating devices. 3,031,127, 4–24–62, Cl. 230—95.
Duhamel, Francis R. J. : *See*—
Kieffer, Joseph D., III, and Duhamel. 3,047,085.
Duhamel, Francis R. J., to Motor-Mower, Inc. V-belt tensioning and clutch structure. 3,044,315, 7–17–62, Cl. 74—230.17.
Duhael, Gerard. Pipe hanger. 3,051,424, 8–28–62, Cl. 248—62.
Duhamel, Maurice T., to Textron Inc. Method of making valve lifter bodies or the like. 3,054,177, 9–18–62, Cl. 29—534.
Du Hamel, Raymond H. : *See*—
Berry, David G., and Du Hamel. 3,041,606.
Du Hamel, Raymond H., and D. G. Berry, to Collins Radio Co. Logarithmically periodic antenna array. 3,059,234, 10–16–62, Cl. 343—79.5.
Duinker, Simon : *See*—
Diemer, Gesinus, Duinker, De Haan, and Van Santen. 3,056,887.
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Duinker, Simon, A. L. Stuijts, H. P. J. Wijn, and W. K. Westmijze, to North American Philips Co., Inc. Magnetic record carrier. 3,023,166, 2–27–62, Cl. 252—62.5.
Duinker, Simon, and J. Bos, to North American Philips Co., Inc. Glass gap spacer for magnetic heads. 3,024,318, 3–6–62, Cl. 179—100.2.
Duinker, Simon, and J. Koorneef, to North American Philips Co., Inc. Combination of radio receivers and magnetic record reproducing devices. 3,042,758, 7–3–62, Cl. 179—100.11.
Duinker, Simon, and J. Bos, to North American Philips Co., Inc. Method of orienting in coplanar arrangement the gaps of a plurality of magnetic heads. 3,058,200, 10–16–62, Cl. 29—155.56.
Duisburger Kupferhütte : *See*—
Morawietz, Wilhelm. 3,049,478.
Dujardin, Albert J. A. A., to Etcremeuses Melotte Societe Anonyme. Rotary filter with a pre-filtering layer. 3,037,-632, 6–5–62, Cl. 210—193.
Du Kane Corp. : *See*—
Carlson, Charles W. 3,062,063.
Supitilov, Michael C., Johnson, and Norton. 3,061,873.
Duke, Edward M., Jr., to Furex Corp., Ltd. Composition and process for brightening aluminum and its alloys. 3,018,211, 1–23–62, Cl. 156—21.
Duke, Edward T. : *See*—
Mauck, Victor, Duke, and Belfi. 3,068,934.
Duke, Jackie E. : *See*—
Mihm, Clifford H., Warner, and Duke. 3,022,351.
Duke, James B., to Minerals & Chemicals Philipp Corp. Method for producing rounded plastic masses. 3,024,206, 3–6–62, Cl. 252—477.
Duke, John A. : *See*—
Vollmer, James, and Duke. 3,050,982.
Duke, John A., to Minneapolis-Honeywell Regulator Co. Temperature measuring apparatus. 3,051,038, 8–28–62, Cl. 88—22.5.
Duke, John A., to Minneapolis-Honeywell Regulator Co. Pressure signal measuring apparatus. 3,056,297, 10–2–62, Cl. 73—398.
Duke, John A., to Minneapolis-Honeywell Regulator Co. Measuring apparatus. 3,064,128, 11–13–62, Cl. 250—83.3.
Duke University, Inc. : *See*—
Buckingham, Michael J., and Fairbank. 3,043,512.
Dukes, Clifton A., Jr. Transparent overlay shells for terrestrial globes. 3,063,163, 11–13–62, Cl. 35—46.2.
Dukes, John R., and L. Eggman, to Industrial Nucleonics Corp. Measuring system. 3,050,626, 8–21–62, Cl. 250—83.3.
Dula, Alfred A. : *See*—
Wehring, Elwood, and Dula. 3,047,316.
Dull, Rolland O. Reserved parking post. 3,061,960, 11–6–62, Cl. 39—5.
Dull, Thomas J. : *See*—
Greeno, John R., and Dull. 3,040,167.
Dull, William B., to Kingston Products Corp. Dual rotary switch assembly. 3,015,705, 1–2–62, Cl. 200—6.
Duller, William H. Substance emitting fish lure device. 3,066,434, 12–4–62, Cl. 43—42.06.
Dully, Floyd L. : *See*—
Johnstone, Theodore H., Dully, and Sandor. 3,069,889.
Dulmage, Frederick E., Sr., to The Dow Chemical Co. Method of locating enteric constrictions with a plurality of pills containing an X-ray contrast agent. 3,017,329, 1–16–62, Cl. 167—95.
Dulude, Donald O., to Kuhlman Electric Co. Electrical bushing construction. 3,054,850, 9–18–62, Cl. 174—145.
Dumaire, Marc J., to Societe d'Electronique et d'Automatisme. Saturable magnetic core circuits for handling binary coded informations. 3,049,302, 6–19–62, Cl. 340—174.
Dumas, Bernard, & Cie : *See*—
Poelman, Armand J. J., and Germain. 3,034,981.
Dumas, Roger E., to Taber Instrument Corp. Pressure measuring instrument. 3,045,490, 7–24–62, Cl. 73—398.
Dumas, Roger E., to Taber Instrument Corp. Force measuring instrument. 3,057,202, 10–9–62, Cl. 73—398.
Dumas, Roger E., to American Machine & Foundry Co. Control mechanism for bowling pin spotting machines. 3,068,-005, 12–11–62, Cl. 273—43.
Dumas, Sammy R. Currency buffer. 3,027,939, 4–3–62, Cl. 162—271.
Dumbauld, George K., and P. H. Monaghan, to Jersey Production Research Co. Drilling fluids for use in wells. 3,065,170, 11–20–62, Cl. 252—8.5.
Dumers, Dewey M., and C. E. Diener, to General Aniline & Film Corp. Preparation of polymer resist images. 3,029,-145, 4–10–62, Cl. 96—35.
Dumesnil, Henri A., to F. E. Jonas. Thiolpropionate compositions. 3,061,511, 10–30–62, Cl. 167—53.
Dumesnil, Henri A. Process of preparing 1-beta-pyridyl carbonyl-2-propanoic acid. 3,061,610, 10–30–62, Cl. 260—295.
Dumesnil, Maurice E., to E. I. du Pont de Nemours and Co. Thermistor composition. 3,019,198, 1–30–62, Cl. 252—521.
Dumesnil, Maurice E., to E. I. du Pont de Nemours and Co. Resistor and resistor composition. 3,052,573, 9–4–62, Cl. 117—221.
Dumez, Raoul H. : *See*—
Eggers, Gerhard, and Dumez. 3,045,953.
Eggers, Gerhard, Dumez, and Ernst. 3,058,691.
Dumez, Raoul H., to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Aerodynamic stabilizer for aircraft. 3,045,484, 7–24–62, Cl. 73—180.
Dumford, John C. Grocery bag holder for automobile trunks. 3,043,441, 7–10–62, Cl. 211—178.
Dumire, Leo G. : *See*—
Edlen, George, and Dumire. 3,070,649.
Edlen, George G., and Dumire. 3,040,288.
Edlen, George G., and Dumire. 3,062,938.
Dumm, Robert P., to Pacific Valves, Inc. Seat adjustment for ball valves with rotatable ring. 3,038,693, 6–12–62, Cl. 251—171.
Dumm, Robert P., to Pacific Valves, Inc. Pressure actuated valve control. 3,049,103, 8–14–62, Cl. 121—99.
Dumm, Robert P., to Pacific Valves, Inc. Clutch hand wheel for a soft seat valve. 3,053,498, 9–11–62, Cl. 251—81.
Dumm, Roger H., to Pacific Valves, Inc. Three-way balanced valve. 3,038,499, 6–12–62, Cl. 137—625.5.
Dumont, Hubert G. A., to Stamicarbon N.V. Apparatus for separating particles according to size. 3,047,150, 7–31–62, Cl. 209—251.
Dumpis, Janis : *See*—
Scheublein, William A., Jr., and Dumpis. 3,019,041.
Dumpleton, Owen W., to Babcock & Wilcox Ltd. Heat exchanger tubes with radially extending fins transversely corrugated, thereto and method of forming the same. 3,020,027, 2–6–62, Cl. 257—262.16.
Dunbar, Huey, to Jersey Production Research Co. Tubular sucker rods. 3,040,673, 6–26–62, Cl. 103—179.
Dunbar, Joseph E. : *See*—
Stryker, Stanley J., and Dunbar. 3,038,921.
Dunbar, Joseph E., to The Dow Chemical Co. 1,4-dihydro-1,4-methanonaphthalene-5,8-diamine. 3,019,259, 1–30–62, Cl. 260—556.
Dunbar, Joseph E., to The Dow Chemical Co. 10-phenoxarsinyl perfluoroalkanoates. 3,036,107, 5–22–62, Cl. 260—440.
Dunbar, Joseph E., to The Dow Chemical Co. S-(10-phenoxarsinyl) O,O-(di-substituted) phosphorodithioates. 3,038,-920, 6–12–62, Cl. 260—440.
Dunbar, Ray O. : *See*—
Flaws, John, Jr., and Dunbar. 3,028,712.
Dunbar, Robert R. : *See*—
Lydle, John B., and Dunbar. 3,050,096.
Dunbeck, Joseph T., and W. K. Hanf, to Corning Glass Works. Stopcock. 3,038,694, 6–12–62, Cl. 251—181.
Duncan, Alan W., to Sears, Roebuck and Co. Door or wall mounted scale cabinet. 3,027,215, 3–27–62, Cl. 312—245.
Duncan, Angus W., to The Mining Engineering Co. Ltd. Belt conveyors. 3,047,131, 7–31–62, Cl. 198—192.
Duncan, Dan M. Full hole deflection tool. 3,042,125, 7–3–62, Cl. 175—73.
Duncan, Donal B., and H. E. Singleton, to North American Aviation, Inc. Programmed computer. 3,057,211, 10–9–62, Cl. 74—5.34.
Duncan, Ellsworth N. Zipper operating device. 3,017,680, 1–23–62, Cl. 24—205.15.

Duncan, Garnett C., W. W. Lee, T. W. Lucero, and A. P. Redding; said Redding assor. to United States of America, Navy. Missile launcher. 3,040,629, 6–26–62, Cl. 89—1.7.

Duncan, Gordon W.: *See*—
McTurk, William E., Lifson, and Duncan. 3,061,420.

Duncan, Ian G., to Ever-Ready Razor Products Ltd. Cutting head for a dry shaver. 3,060,572, 10–30–62, Cl. 30—43.

Duncan, James E.: *See*—
Middleswarth, Earl T., and Duncan. 3,046,148.

Duncan, James E., and S. L. Seymour, to Pittsburgh Plate Glass Co. Multifocal lens. 3,020,803, 2–13–62, Cl. 88—54.

Duncan, James E., and W. J. Englert, to Pittsburgh Plate Glass Co. Glass composition. 3,022,183, 2–20–62, Cl. 106—54.

Duncan, James K.: *See*—
Quinn, James L., and Duncan. 3,021,950.

Duncan, James K., Ring binder or the like. 3,039,472, 6–19–62, Cl. 129—24.

Duncan, James K., to Duncan Research. Rigid-prong self-opening binder. 3,057,357, 10–9–62, Cl. 129—24.

Duncan, James K., to Duncan Research. Ring binder. 3,066,-680, 12–4–62, Cl. 129—24.

Duncan, Joe S.: *See*—
Keplinger, Orin C., Elmer, and Duncan. 3,062,772.

Duncan, Lawrence K.: *See*—
Nielsen, Morris L., and Duncan. 3,027,228.

Duncan, Leon L.: *See*—
Duncan, Lloyd P. and L. L. 3,035,543.
Duncan, Lloyd P. and L. L. 3,036,552.

Duncan, Lloyd P. and L. L., to Zero Mfg. Co. Means for milking farm animals. 3,035,543, 5–22–62, Cl. 119—14.09.

Duncan, Lloyd P. and L. L., to Zero Mfg. Co. Bulk milk tank system and control therefor. 3,036,552, 5–29–62, Cl. 119—14.18.

Duncan, Melvin L. Air deodorizing apparatus. 3,055,066, 9–25–62, Cl. 21—74.

Duncan Research: *See*—
Duncan, James K. 3,057,357.
Duncan, James K. 3,066,680.

Duncan, Richard L., D. J. Miller, F. R. Caldwall, F. W. Ruegg, and E. F. Flock, to United States of America, Navy. Apparatus for introducing a reactive chemical into the pilot zone of a combustion chamber. 3,016,704, 1–16–62, Cl. 60—39.72.

Duncan, Robert B. and P. L. Fosburg, to Westinghouse Electric Corp. Elevator closures. 3,063,516, 11–13–62, Cl. 187—29.

Duncan, Robert E., and A. B. Erekson, to The Borden Co. Processing dough. 3,033,132, 5–8–62, Cl. 107—54.

Duncan, Robert H., T. P. Miller, A. V. Maciulis, and S. L. Fudaley, to International Telephone and Telegraph Corp. Conference call circuit. 3,060,265, 10–23–62, Cl. 179—1.

Duncan, Robert K., to The Baldwin Piano Co. Electro-acoustic transducer. 3,060,282, 10–23–62, Cl. 179—115.

Duncan, Robert P.: *See*—
Zink, John S., Jr., Duncan, Edwards, and Reed. 3,033,-273.

Duncan, Theodore R., to Mattel Inc. Phonograph reset and exterior latch mechanism. 3,037,779, 6–5–62, Cl. 274—2.

Duncan, Virgil D., to Capitol Broadcasting Co., Inc. Wide range tunnel diode oscillator. 3,065,432, 11–20–62, Cl. 332—19.

Duncan, Wilber O. Power operated bale pilers. 3,052,366, 9–4–62, Cl. 214—147.

Duncan, William L.: *See*—
Hutchens, George H., and Duncan. 3,058,343.
Hutchens, George H., and Duncan. 3,063,293.

Duncan, William P. Method of producing bevel siding. 3,053,-295, 9–11–62, Cl. 144—326.

Duncan, William S.: *See*—
Spaulding, Carl P., and Duncan. 3,019,427.

Duncanson, Peter P., to Marlex Mfg. Co. Plow attachment. 3,036,648, 5–29–62, Cl. 172—736.

Dunckel, Bruce G.: *See*—
Danziger, Warren B., and Dunckel. 3,053,560.

Duncombe, Edward, and K. W. Paget, to United Kingdom Atomic Energy Authority. Potentiometric recorders. 3,058,111, 10–9–62, Cl. 346—34.

Dunder, David: *See*—
Danciart, Ted T., and Dunder. 3,032,373.
Danciart, Ted T., and Dunder. 3,032,380.

Dungan, Arthur. Meat tenderizer. 3,045,348, 7–24–62, Cl. 30—304.

Dungan, Richard T.: *See*—
Bauer, Ernest A., and Dungan. 3,030,767.

Dungan, Richard T., H. A. Long, A. F. Stupka, B. L. Taylor, and J. C. Wise, to The Marquardt Corp. Proportional-plus-integral computer. 3,046,944, 7–31–62, Cl. 121—41.

Dungan, Robert H., and R. G. Johnson, to Minneapolis-Honeywell Regulator Co. Method of making ceramic-metal seals. 3,065,533, 11–27–62, Cl. 29—472.7.

Dungemittel Technik A. G.: *See*—
Von Reppert, Lothar. 3,030,657.
Von Reppert, Lothar. 3,050,772.

Dunham, Bradford, to International Business Machines Corp. Multipurpose logical operations. 3,028,088, 4–3–62, Cl. 235—164.

Dunham-Bush, Inc.: *See*—
Keller, Edwin G. 3,040,668.
Werts, Everett W. 3,054,562.

Dunham, Homer. Method for rounding container corners. 3,059,551, 10–23–62, Cl. 93—36.

Dunham, Milton L., Jr., and F. M. O'Connor, to Union Carbide Corp. Rubber composition containing zeolitic molecular sieve and process for curing. 3,036,980, 5–29–62, Cl. 260—31.4.

Dunham, Stuart B.: *See*—
Bigelow, John E., Van Luik, Dunham, and Rich. 3,037,-421.

Dunham, Stuart B., to General Electric Co. Condensation nuclei measuring device. 3,060,747, 10–30–62, Cl. 73—432.

Dunham, Vernon L.: *See*—
Kolec, Robert F., and Dunham. 3,065,661.

Dunkerley, Arthur A. Piston pin installing tool. 3,050,840, 8–28–62, Cl. 29—263.

Dunkle, Gladys E.: *See*—
Dunkle, Wesley E. 3,031,773.

Dunkle, Wesley E., deceased, by G. E. Dunkle, administratrix, 25% to Goodnews Bay Mining Co. Coal drying apparatus. 3,031,773, 5–1–62, Cl. 34—177.

Dunklee, Donovan M., to Walwood Products. Dispensing closure for containers. 3,032,240, 5–1–62, Cl. 222—525.

Dunklee, Laurence H.: *See*—
Hukee, Russell E., and Dunklee. 3,051,815.

Dunlap and Associates, Inc.: *See*—
Kelley, Charles R. 3,037,201.
Paul, Joseph G. 3,037,852.

Dunlap, Charles K., to Sonoco Products Co. Textile yarn carrier having crowned winding surface. 3,045,945, 7–24–62, Cl. 242—118.32.

Dunlap, Charles K., Jr., L. W. Gibson, J. G. McGee, Jr., and D. D. Seberry, to Sonoco Products Co. Collapsible container. 3,064,870, 11–20–62, Cl. 229—4.5.

Dunlap, Donald T.: *See*—
Mahoney, William R., St. Pierre, and Dunlap. 3,032,-829.

Dunlap, Harold E., to Lodding Engineering Corp. Adjustable supports for fourdrinier screen wires. 3,017,930, 1–23–62, Cl. 162—352.

Dunlap, Harold E., to Lodding Engineering Corp. Adjustable supports for fourdrinier screen wires. 3,027,940, 4–3–62, Cl. 162—352.

Dunlap, Harold E., to Lodding Engineering Corp. Fourdrinier wrlte water doctor box. 3,027,941, 4–3–62, Cl. 162—352.

Dunlap, Henry F., and L. P. Whorton, to Atlantic Refining Co. Electrical well logging instrument. 3,052,835, 9–4–62, Cl. 324—1.

Dunlap, Henry L., to Evans Products Co. Cross member. 3,029,746, 4–17–62, Cl. 105—369.

Dunlap, Henry L., to Evans Products Co. Automobile shipping device. 3,070,042, 12–25–62, Cl. 105—368.

Dunlap, Isaac R., to Johnson & Johnson. Unified paper sheet, process of making, and pressure-sensitive adhesive tape made therefrom. 3,055,496, 9–25–62, Cl. 206—59.

Dunlap, Peggy M., to Socony Mobil Oil Co., Inc. Acidizing of wells. 3,042,610, 7–3–62, Cl. 252—8.55.

Dunlap, Robert B., to J. S. Kamborian. Automatic toe lasting machine. 3,051,970, 9–4–62, Cl. 12—8.8.

Dunlee Corp.: *See*—
Atlee, Zed J. 3,018,398.
Atlee, Zed J. 3,022,435.

Dunlop, Alexander J.: *See*—
Jones, Harold S., Dunlop, Lynch, and Prior. 3,035,961.

Dunlop, Andrew P., and D. G. Manly, to The Quaker Oats Co. Process for preparing 2-methylfuran. 3,020,291, 2–6–62, Cl. 260—346.1.

Dunlop, Andrew P., and D. G. Manly, to The Quaker Oats Co. Process for hydrogenating aromatic hydrocarbons. 3,030,430, 4–17–62, Cl. 260—667.

Dunlop, Andrew P., and D. S. P. Eftax, to Quaker Oats Co. 1,1-Dinitromethyl-6,8-dioxabicyclo(3.2.1) octane and processes for its preparation. 3,047,586, 7–31–62, Cl. 260—340.9.

Dunlop, Andrew P., D. G. Manly, and J. P. O'Halloran, to The Quaker Oats Co. Reduction of dicarboxylic acid esters and anhydrides to gamma butyrolactone. 3,065,243, 11–20–62, Cl. 260—343.6.

Dunlop, Arthur K., and R. E. Meeker, to Shell Oil Co. Peroxide stabilization. 3,053,633, 9–11–62, Cl. 23—207.5.

Dunlop, Donald D.: *See*—
Cull, Neville L., Dunlop, and Gleason. 3,068,300.

Dunlop, Donald D., J. D. Koontz, and G. O. Hillard, Jr., to Esso Research and Engineering Co. Prevention of reactor fouling. 3,067,268, 12–4–62, Cl. 260—669.

Dunlop, George E., to United States Steel Corp. Furnace lining temperature-thickness measuring apparatus. 3,018,-663, 1–30–62, Cl. 73—341.

Dunlop Rubber Co. Ltd.: *See*—
Adamek, Stephen, and Dingle. 3,033,835.
Allbright, Dennis H. 3,024,770.
Bennett, William D., and Jenkins. 3,063,488.
Bent, William H. 3,044,405.
Bould, Geoffrey. 3,024,465.
Butler, Henry J. 3,027,982.
Butler, Henry J. 3,042,152.
Butler, Henry J. 3,044,580.
Butler, Henry J. 3,053,346.
Butler, Henry J. 3,056,471.
Butler, Henry J. 3,062,328.
Cooper, David H. D. 3,024,829.
Davies, Raymond J. 3,044,760.
Davies, Raymond J. 3,044,761.

Dunlop Rubber Co. Ltd. : *See*—Continued
Davies, Raymond J., and Pacaud. 3,063,734.
Davies, Raymond J., and Turnbull. 3,025,076.
Dewar, Douglas. 3,044,920.
Drakeford, George E., and Manning. 3,047,450.
Drakeford, George E., and Smith. 3,044,522.
Drakeford, George E., and Smith. 3,044,523.
Fletcher, Henry R. 3,044,525.
Goy, Ronald S., and Bennett. 3,042,956.
Henson, Douglas R. 3,047,446.
Holroyd, Eric, and Waldron. 3,044,727.
Hurst, Norman A., and Walton. 3,062,269.
Kutsmichel, Rudolf. 3,024,825.
Lowe, Jack M. 3,044,533.
Mitchell, William E. 3,063,491.
Morris, Bryan J. 3,063,733.
Nebout, Noël. 3,026,230.
Nebout, Noel. 3,032,093.
Sear, Derek W., and Evans. 3,024,813.
Smith, Reginald S. J., and Lowe. 3,024,828.
Trevaskis, Henry W. 3,044,494.
Trevaskis, Henry W. 3,058,721.
Trevaskis, Henry W., and Barber. 3,025,209.
Vaughan, George. 3,024,589.
Watson, John W., Kendall, and Jervis. 3,025,259.
Watson, John W., Kendall, and Jervis. 3,043,708.
Wright, Joseph. 3,044,519.
Dunlop Tire and Rubber Corp. : *See*—
Bennett, William D., and Goy. 3,061,943.
Goy, Ronald S., and Moring. 3,061,941.
Persicke, Herbert, Schwab, and Schilling. 3,026,544.
Trevaskis, Henry W. 3,044,317.
Dunlop, Wirt V. : *See*—
Edelstone, Sigmund E., Dunlop, and Schlotthauer. 3,049,262.
Dunn, Andrew C. Silent door closer. 3,070,394, 12–25–62, Cl. 292—79.
Dunn, Donald A., to United States of America, Army. Microwave frequency divider. 3,019,366, 1–30–62. Cl. 315—3.6.
Dunn, Earl F., and E. Koszta, to The Singer Mfg. Co. Sewing machine work feed adjusting device. 3,036,535, 5–29–62, Cl. 112—210.
Dunn, Edward J., Jr. : *See*—
Orsino, Joseph A., and Dunn. 3,017,447.
Orsino, Joseph A., and Dunn. 3,050,408.
Dunn, Edward J., Jr., to National Lead Co. Composite zinc pigments. 3,028,250, 4–3–62, Cl. 106—296.
Dunn Engineering Associates Inc. : *See*—
Davis, Charles W. 3,029,588.
Dunn, Eugene L., J. E. Wilson, M. E. Cieslicki, and J. B. Moore, to United States of America, Air Force. Nickel base alloy. 3,067,030, 12–4–62. Cl. 75—171.
Dunn, George E., to Chrysler Corp. Resilient bearing mount. 3,053,584, 9–11–62, Cl. 308—28.
Dunn, Gilbert M. Bird house. 3,053,226, 9–11–62, Cl. 119—23.
Dunn, Harold H. : *See*—
Wilson, Charles C., Dunn, and McAngus. 3,029,179.
Dunn, Harold S. Light transmitting insulated roof panel. 3,025,198, 3–13–62. Cl. 154—45.9.
Dunn, Harold S. Structural unit. 3,027,984, 4–3–62, Cl. 189—37.
Dunn, Harold S. Light transmitting roof forming panel. 3,028,277, 4–3–62, Cl. 154—43.
Dunn, Harold S. Connector for mounting roof forming panels. 3,039,232, 6–19–62. Cl. 50—346.
Dunn, Jesse T., to Union Carbide Corp. Process for producing acrylic acid esters. 3,019,256, 1–30–62, Cl. 260—486.
Dunn, Jesse T., to Union Carbide Corp. Process for producing acrylic acid esters. 3,035,086, 5–15–62, Cl. 260—486.
Dunn, Jesse T., to Union Carbide Corp. Process for producing acrylic acid esters. 3,035,087, 5–15–62, Cl. 260—486.
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Dunn, Jesse T., to Union Carbide Corp. Process for producing acrylic acid esters. 3,035,090, 5–15–62, Cl. 260—486.
Dunn, Jesse T., and D. L. Heywood, to Union Carbide Corp. O-allyl-N,N-diallylhydroxylamine and method of preparation. 3,046,308, 7–24–62, Cl. 260—584.
Dunn, Jesse T., and D. L. Heywood, to Union Carbide Corp. Stabilization of peracids. 3,048,624, 8–7–62, Cl. 260—502.
Dunn, Jesse T., and D. L. Heywood, to Union Carbide Corp. Preparing vinylpyridine-N-oxides and certain derivatives thereof. 3,062,824, 11–6–62, Cl. 260—295.
Dunn, John W., to Cal Alloy Castings, Inc. Adjustable rod holder. 3,040,902, 6–26–62, Cl. 211—105.4.
Dunn, Joseph M., to American Optical Co. Fiber optical image transfer devices. 3,043,179, 7–10–62, Cl. 88—1.
Dunn, Joseph M., to American Optical Co. Optical coupling device between X-ray intensifier and vidicon camera tube or the like. 3,058,021, 10–9–62. Cl. 313—65.
Dunn, Joseph S., to Plastic Training Products Co. Practice round of ammunition. 3,060,856, 10–30–62, Cl. 102—41.
Dunn, Joseph S., and F. C. Bennett, Jr., to Eastman Kodak Co. Process for making photoconductive lead sulfide films. 3,017,296, 1–16–62, Cl. 117—201.
Dunn, Kenneth A., to Celanese Corp. of America. Preparation of β-propiolactone. 3,069,433, 12–18–62, Cl. 260—343.9.
Dunn, Larry A. : *See*—
Dunn, Patrick A. and L. A. 3,041,984.
Dunn, Lyman D. : *See*—
Barnum, Caleb W. 3,044,277.
Dunn, Lyman D. Cleansing composition in dry granular form. 3,020,237, 2–6–62, Cl. 252—109.
Dunn, Lyman D. Beverage maker. 3,069,866, 12–25–62, Cl. 62—136.
Dunn, Maurice B., to Memco Machinery Corp. Box erecting machine. 3,029,712, 4–17–62, Cl. 93—51.
Dunn, Maurice B., to Memco Machinery Corp. Blank feeding apparatus for box erecting machine. 3,053,529, 9–11–62, Cl. 271—11.
Dunn, Michael J., to Precision Products & Controls, Inc. Electric impulse-type counter. 3,022,943, 2–27–62, Cl. 235—92.
Dunn, Michael J., to Badger Meter Mfg. Co. Coupling means for fluid meters. 3,035,442, 5–22–62, Cl. 73—258.
Dunn, Oswald D. Headstock for milking parlor stall. 3,016,043, 1–9–62, Cl. 119—27.
Dunn, Patrick A. and L. A. Railroad journal and wheel axle jack skidding device. 3,041,984, 7–3–62, Cl. 105—199.
Dunn, Richard G., to The Real-Reel Corp. Cloth reel. 3,062,368, 11–6–62, Cl. 206—50.
Dunn, Robert G., and T. B. Pfaff, to General Motors Corp. Apparatus for making foundry cores and molds. 3,059,294, 10–23–62, Cl. 22—10.
Dunn, Robert G., and T. B. Pfaff, to General Motors Corp. Foundry molds and cores and process for making same. 3,059,297, 10–23–62, Cl. 22—193.
Dunn, Rose-Marie. Plant watering device. 3,052,063, 9–4–62, Cl. 47—38.
Dunn, Stephen T. Ashtray. 3,027,899, 4–3–62, Cl. 131—240.
Dunn, William G. Boat dolly. 3,036,841, 5–29–62, Cl. 280—47.13.
Dunne, Arthur J., and K. A. Bownes, to Interchemical Corp. Printing ink comprising propanol, polyamide and toluenesulfonamide formaldehyde resin. 3,034,997, 5–15–62, Cl. 260—15.
Dunne, Thomas G., to International Business Machines Corp. Room temperature ferroelectric materials. 3,023,167, 2–27–62, Cl. 252—63.2.
Dünnebier, Kurt : *See*—
Winkler, Richard, and Dünnebier. 3,019,886.
Winkler, Richard, and Dünnebier. 3,020,043.
Winkler, Richard, and Dunnebier. 3,021,610.
Winkler, Richard, and Dunnebier. 3,040,488.
Winkler, Richard, and Dunnebier. 3,044,767.
Winkler, Richard, and Dunnebier. 3,069,025.
Dunning, Charles J. : *See*—
Harrington, Joseph J., Dunning, and Mitchell. 3,053,034.
Dunning, Leighton, to William M. Wilson's Sons, Inc. Bypass valves. 3,044,484, 7–17–62. Cl. 137—469.
Dunnous, Jack, to Novo Industrial Corp. Shaft mounting arrangement. 3,063,726, 11–13–62, Cl. 277—12.
Dunphy, Gerald F. : *See*—
Dunn, James P., and Dunphy. 3,020,039.
Dunstan, Phillip E. Hand propelled child's vehicle. 3,062,560, 11–6–62. Cl. 280—208.
Dunton, James W., to Elrick Rim Co., Inc. Means for locking the half spindles of split rim tire mount. 3,042,091, 7–3–62. Cl. 152—288.
Dunton, Robert E. : *See*—
Lit, Harry B., and Dunton. 3,018,199.
Duo-Flex Corp. : *See*—
Stanley, John E. 3,032,833.
Stanley, John E. 3,053,359.
Duo Marine, Inc. : *See*—
Hesher, Neil R., and Porter. 3,067,711.
Du Pa Co., Inc. : *See*—
Page, Franklin H., Jr. 3,036,199.
Du Page Precision Products Co. : *See*—
Dieter, William J., Schroeder, and Flynn. 3,045,617.
Du Page Stamping & Mfg. Co. : *See*—
Tinsley, George C. 3,028,650.
Dupasquier, Joseph H. Limitable steam shower assembly. 3,037,706, 6–5–62, Cl. 239—120.
Duplan Corp., The : *See*—
Strub, Henry M., Jr., and Michalek. 3,025,661.
Duplex Mfg. Co. : *See*—
Andrew, Homer L. 3,065,697.
Andrew, Homer L. 3,065,698.
Andrew, Vaughan L. 3,065,792.
Duplicon Co., Inc. : *See*—
Andersen, Johan M., and Dockstader. 3,046,033.
Du Plooy, Wilhelm A., ½ to M. Chaitow. Vibration responsive burglar alarm apparatus. 3,049,700, 8–14–62, Cl. 340—261.
Du Pont de Nemours, E. I., and Co. : *See*—
Aarons, Ralph, and Bugosh. 3,033,699.
Acker, Donald S., and Prichard. 3,062,635.
Adams, Dustin S. 3,069,726.
Adams, Dustin S. 3,069,747.
Albert, Robert E. 3,030,254.
Alderson, Thomas. 3,020,314.
Alderson, Thomas. 3,059,031.
Alderson, Thomas, and Engelhardt. 3,065,242.
Alderson, Thomas, and Thomas. 3,040,090.
Aldrich, Paul E. 3,043,859.

Du Pont de Nemours, E. I., and Co.: *See*—Continued
Alexander, Guy B. 3,041,140.
Alexander, Guy B., Iler, and West. 3,028,234.
Alexander, Guy B., and Pasfield. 3,019,103.
Alexander, Guy B., and Yates. 3,069,292.
Alfaya, Raymond, Landskroener, and Thaxton. 3,047,-221.
Allerdice, Joseph M., and Stricklin. 3,021,130.
Alles, Francis P. 3,030,313.
Alles, Francis P. 3,043,695.
Alles, Francis P. 3,057,722.
Amborski, Leonard E. 3,043,709.
Anderson, Arthur W., Bruce, Merkling, and Truett. 3,050,471.
Anderson, John L. 3,018,271.
Anderson, John L. 3,021,340.
Andreades, Sam. 3,040,085.
Andreades, Sam, England, and Lindsey. 3,030,409.
Andres, Raymond J. 3,036,047.
Andres, Raymond J. 3,065,207.
Apotheker, David. 3,026,280.
Arimoto, Fred S. 3,026,263.
Armitage, John B., and Hewson. 3,022,268.
Arthur, Paul, Jr. 3,056,747.
Au, Tin Y. 3,067,460.
Au, Tin-Yam. 3,068,530.
Aulbaugh, Johnnie M., Kramis, and Siefen. 3,020,313.
Baer, Donald R. 3,021,344.
Baevsky, Melvin M. 3,061,550.
Balthis, Joseph H., Jr., Gresham, and Merckling. 3,038,863.
Banford, William H., and Turner. 3,068,245.
Bannerman, Douglas G. 3,037,000.
Barbaras, Glen D. 3,057,744.
Barkdoll, Archie E., and Lorenz. 3,038,915.
Barnes, Thomas W., and Hill. 3,051,364.
Barney, Arthur L. 3,067,173.
Barney, Arthur L., Engelhardt, and Palmbeck. 3,046,127.
Barthel, Eric, Jr., Luckenbaugh, and Nelson. 3,024,269.
Bartlett, Philip L. 3,027,246.
Bauer, Herbert, and Cohen. 3,052,543.
Bayer, Robert O., and Meinzer. 3,050,846.
Beaman, Ralph G. 3,040,003.
Beaman, Ralph G. 3,048,566.
Beecher, Jack E., Kallal, Sayre, and Singer. 3,025,571.
Belck, Lothar H., and Siedschlag. 3,039,524.
Bell, James E., Jr. 3,027,573.
Bell, Richard W., Csendes, and McShane. 3,057,820.
Bennett, Bailey, Novy, and Simko. 3,057,750.
Bennett, Ovell F., Huber, and Smiley. 3,022,320.
Benson, Richard E., and Thomas. 3,052,704.
Bernhardt, Ernest C., Hahn, and Hansen. 3,040,005.
Bernhardt, Ernest C., and Skewis. 3,044,118.
Berry, Kenneth L. 3,030,183.
Berzins, Talivaldis. 3,021,267.
Berzins, Talivaldis. 3,045,334.
Beste, Lawrence F., and Stephens. 3,068,188.
Bigliano, Robert P., and White. 3,068,409.
Billingsley, John G. S. 3,045,359.
Biswell, Charles L., and Winnick. 3,032,973.
Blatz, Philip S. 3,057,753.
Blomstrom, Dale C. 3,044,994.
Blomstrom, Dale C., and McKusick. 3,021,339.
Blood, Charles A., Jr., and Fisher. 3,039,986.
Bohmfalk, Barbara M. 3,034,196.
Bonner, Willard H., Jr. 3,065,205.
Boyer, Clarence. 3,047,909.
Boyer, Robert J. 3,043,713.
Brace, Neal O. 3,016,406.
Brace, Neal O. 3,016,407.
Brace, Neal O. 3,047,619.
Brace, Neal O., and McCormack. 3,047,610.
Bradley, Donald R. 3,065,042.
Brady, James D. 3,067,262.
Brand, John R. 3,067,459.
Brandsma, Walter C., Fisher, and Saydlowski. 3,063,-868.
Brasen, Wallace R., and Howard. 3,052,705.
Brasure, Donald E. 3,054,703.
Brasure, Donald E., and Pruett. 3,035,002.
Breen, Alvin L. 3,017,737.
Breen, Alvin L. 3,038,326.
Breen, Alvin L. 3,043,088.
Breen, Alvin L., and Jordan. 3,017,686.
Breen, Alvin L., and Sussman. 3,043,087.
Brehm, Warren J., and Millan. 3,053,823.
Breza, Cyril J., Hague, v. d. Luft, and Swed. 3,062,142.
Briggs, James E. 3,026,926.
Brill, Harold C. 3,017,282.
Brinker, Keith C., and Bro. 3,066,122.
Brixner, Lothar H. 3,034,857.
Brixner, Lothar H. 3,035,896.
Brixner, Lothar H. 3,043,654.
Bro, Manville I. 3,023,196.
Bro, Manville I., and Schreyer. 3,032,543.
Brodie, Harry J. 3,052,714.
Brokaw, Roberts W., Jr. 3,056,230.
Brown, Morton. 3,057,875.
Bruce, Eric W. 3,031,417.
Bruce, John M., Jr., and Robinson. 3,042,626.
Bruno, Michael F. 3,018,269.
Buchanan, James B., and Gregory. 3,061,645.

Du Pont de Nemours, E. I., and Co.: *See*—Continued
Bugosh, John. 3,031,322.
Bugosh, John. 3,031,418.
Bullitt, Orville H., Jr., and Storrow. 3,069,375.
Burg, Marion. 3,036,913.
Burg, Marion. 3,043,805.
Burg, Marion. 3,068,202.
Burg, Marion, and Cohen. 3,060,023.
Burg, Marion, and Cohen. 3,060,024.
Burg, Marion, and Cohen. 3,060,025.
Burns, Harold W., and Slockett. 3,062,862.
Busse, Warren F. 3,065,157.
Busse, Warren F., Bowers, and Armitage. 3,043,716.
Cairns, Theodore L. S. 3,047,388.
Campbell, Hugh C. 3,029,254.
Campbell, Hugh C. 3,029,257.
Campbell, John B. 3,036,997.
Campbell, Tod W. 3,029,215.
Carboni, Rudolph A. Re. 25,238.
Carboni, Rudolph A. 3,022,305.
Carboni, Rudolph A., and Kauer. 3,058,993.
Carter, Giles F., and Harirson. 3,017,299.
Caywood, Stanley W., Jr., and Keene. 3,021,308.
Chambers, Vaughan C., Jr. 3,043,698.
Chambers, Vaughan C., Jr. 3,069,267.
Chambers, Vaughan C., Jr., and Oberth. 3,026,203.
Chambers, William J., and Coffman. 3,023,208.
Chandler, Carroll F. 3,059,989.
Chapman, Aurelius F. 3,034,847.
Chapman, Aurelius F., and Sutherland. 3,057,505.
Cheshire, John R. 3,063,882.
Childers, Eugene, and West. 3,056,648
Cichelli, Mario T. 3,061,549.
Clapp, Warren S. 3,051,541.
Claussen, Ole H., and Meyer. 3,055,080.
Cline, Edward T. Re. 25,164.
Cline, Edward T., and Tanner. 3,068,122.
Cobb, James S. 3,017,789.
Coble, George W. 3,047,449.
Coe, David G. 3,068,056.
Coffman, Donald D. 3,047,553.
Coffman, Donald D., and Jenner. 3,017,435.
Cohen, Abraham B. 3,070,428.
Cohen, Abraham B., and Firestine. 3,070,442.
Cohen, Abraham B., and Heiart. 3,035,881.
Cohen, Abraham B., and Heiart. 3,035,915.
Cohen, Abraham B., and Heiart. 3,035,941.
Cohen, Werner Y. 3,017,421.
Coker, James N., Fields, and Rogers. 3,061,611.
Cole, Paul M. 3,035,329.
Collins, Robert J. 3,029,121.
Cook, Harry M., and Ryan. 3,036,357.
Cooper, Walter P., and Edman. 3,069,885.
Cossaboon, Karl F. 3,055,337.
Coulson, John R., and Llewellyn. 3,043,471.
Coursen, David L. 3,016,831.
Coursen, David L. 3,035,518.
Coursen, David L., and Johnson. 3,062,313.
Coursen, David L., Noddin, and Reilly. 3,022,544.
Covington, Edward R., and Meier. 3,018,197.
Covington, Edward R., and Meier. 3,057,752.
Cox, John J., Jr. 3,055,088.
Coyner, Eugene C. 3,026,250.
Coyner, Eugene C., Dishart, and Rondestvedt. 3,038,-947.
Cramer, Francis B. 3,024,220.
Cramer, Francis B. 3,070,575.
Cramer, Richard D. 3,017,240.
Cruickshank, Philip A. 3,046,303.
Csendes, Ernest. 3,021,307.
Csendes, Ernest, and Verbanc. 3,021,306.
Cuculo, John A. 3,057,040.
D'Addieco, Alfred A., Lake, and Stephanou. 3,041,139.
Dahlstrom, Richard L., and Wert. 3,069,836.
Daniels, Charles E., and Wyeth. 3,022,566.
Daniels, William W. 3,051,212.
Darby, Robert A., and Ellinghoe. 3,069,404.
Dauchert, Eugene F. 3,067,458.
Davidson, Sidney H., and Delp. 3,016,295.
Davis, Clyde O., Fassnacht, Kirst, and Noren. 3,052,578.
Davis, Clyde O., and Hughes. 3,053,707.
Davis, Clyde O., Johnson, and Ver Bryck. 3,062,158.
Davis, Clyde O., and Noddin. 3,062,147.
Dessauer, Rolf. 3,019,143.
Dettwyler, William. 3,024,254.
Dettwyler, William. 3,051,696.
Dettwyler, William. 3,051,750.
Deyrup, Alden J. 3,052,521.
Deyrup, Alden J. 3,069,333.
Dickinson, Clifford L., Jr. 3,047,389.
Dishart, Kenneth T. 3,034,959.
Ditto, Richard S. 3,036,188.
Donaruma, Lorraine G. 3,026,303.
Donaruma, Lorraine G. 3,044,985.
Donaruma, Lorraine G. 3,052,515.
Douthit, Walter H. 3,029,571.
Downing, Richard M., Fuller, Paddison, and Wyeth. 3,064,073.
Downing, Richard M., Mortberg, and Smith. 3,016,576.
Drysdale, John J. 3,062,879.
Duggins, Ray B. 3,018,091.
Dumesnil, Maurice E. 3,019,198.

Du Pont de Nemours, E. I., and Co.: *See*—Continued
Dumesnil, Maurice E. 3,052,573.
Dusenbury, Charles E. 3,045,315.
Dustman, Robert B., Jr. 3,034,851.
Edlin, Frank E. 3,058,394.
Edwards, Webster H. 3,052,644.
Eifert, Robert L., and Marks. 3,054,774.
Eleuterio, Herbert S. 3,062,793.
Elston, Arthur A., and Hinegardner. 3,016,290.
Emery, John R., and Morrow. 3,026,242.
Engelhardt, Vaughn A. 3,047,301.
England, David C. 3,030,362.
England, David C. 3,036,091.
England, David C. 3,039,995.
England, David C. 3,040,058.
England, David C. 3,062,787.
England, David C., and Podbrin. 3,023,226.
Engle, Robert F., Jr., and Pohl. 3,028,366.
Etzel, Gastao. 3,067,062.
Evans, John L., Pickens, and Williamson. 3,060,148.
Fang, James C.-S. 3,048,552.
Farago, John. 3,038,876.
Fennell, Francis L. 3,069,309.
Fields, Reuben T. 3,058,166.
Fields, Reuben T. 3,060,517.
Flack, Carl B., and Gray. 3,055,846.
Fogg, Robert E. 3,052,376.
Foohey, William L. 3,027,398.
Forney, Robert C., and Hurt. 3,036,214.
Forsgard, Frederick C. 3,043,697.
Frank, Erich K. 3,061,883.
Frank, Erich K. 3,063,961.
Franklin, Richard O., and Stryker. 3,054,658.
Frazer, August H. 3,022,334.
Frazer, August H. 3,037,960.
Fuchs, Julius J. 3,068,275.
Fullhart, Lawrence, Jr., and Swalheim. 3,051,595.
Funkhouser, John T., and Yates. 3,024,110.
Gale, Donald J., and Stahl. 3,027,362.
Gall, Walter G., and Robinson. 3,048,565.
Gallagher, George A. 3,016,368.
Gallagher, George A. 3,069,401.
Gallagher, Richard J. 3,034,791.
Gallinger, Clyde T. 3,037,927.
Gay, Frank P. 3,047,554.
Gibbs, Hugh H. 3,020,321.
Gibbs, Hugh H., and Griffin. 3,041,317.
Gier, Thurman E. 3,051,756.
Githens, Richard E., Jr., and Powers. 3,031,770.
Gladding, Edward E., and Nyce. 3,063,973.
Glogau, Richard C., and Weir. 3,052,711.
Gobeil, Richard J., Johnson, and Luckenbaugh. 3,020,145.
Gobeil, Richard J., and Luckenbaugh. 3,020,144.
Goldberg, Earl J. 3,055,952.
Goodman, Albert, Grandine, and Vosburgh. 3,060,157.
Gray, Charles L., Jr., and Dettre. 3,051,593.
Gregory, Walter A. 3,041,374.
Gresham, William F., and Merckling. 3,026,269.
Gresham, William F., and Merckling. 3,047,513.
Griffing, John M. 3,057,826.
Griffing, John M. 3,057,827.
Griffing, John M., and Remington. 3,018,272.
Griffith, James S., Olsen, and Rechter. 3,041,190.
Gulledge, Hugh C. 3,053,606.
Gulledge, Hugh C. 3,053,607.
Gulledge, Hugh C. 3,053,608.
Hall, Maurice B. 3,069,286.
Halliwell, Ronald H. 3,018,633.
Hamilton, Edward F., Jr., and Harrington. 3,027,602.
Hamilton, William S., and Hinkle. 3,021,560.
Harmon, Jesse. 3,070,580.
Harris, John F., Jr. 3,036,088.
Harris, John F., Jr. 3,037,010.
Harris, John F., Jr. 3,047,545.
Harris, John F., Jr. 3,048,569.
Harris, John F., Jr. 3,062,894.
Harris, John F., Jr., and Joyce. 3,062,893.
Haslam, John H. 3,030,320.
Haslam, John H. 3,032,570.
Haslam, John H. 3,035,071.
Hatchard, William R. 3,048,596.
Hause, Norman L., and Todd. 3,015,567.
Haven, Alfred C., Jr. 3,032,074.
Hayden, Robert B. 3,036,334.
Hays, Richard Y. 3,059,874.
Hebeler, Harold H. 3,044,250.
Heffelfinger, Carl J. 3,048,564.
Heiart, Robert B. 3,035,016.
Heiart, Robert B. 3,060,026.
Heiks, John R. 3,034,942.
Heilman, Kenneth A. 3,025,828.
Hein, Rowland F. 3,037,845.
Heldt, Walter Z. 3,062,855.
Helmers, Edward N. 3,035,590.
Hendricks, Robert W. 3,015,858.
Hendricks, Robert W. 3,056,169.
Hendricks, Robert W. 3,056,676.
Hendricks, Robert W. 3,058,845.
Hendricks, Robert W., and Osborn. 3,056,170.
Hendrix, Walter H. 3,055,786.
Hendrixson, Philip R., and Schumacher. 3,015,576.
Henne, Albert L. 3,024,290.
Du Pont de Nemours, E. I., and Co.: *See*—Continued
Hermann, Edward C. 3,027,404.
Hiestand, Harry E., and Quinn. 3,054,771.
Hildebrand, Cleveland L. 3,053,585.
Hill, James H. 3,034,743.
Hinkle, Barton L. 3,048,579.
Hix, Hugh B. 3,043,683.
Hochberg, Jerome. 3,042,574.
Hochberg, Jerome. 3,059,311.
Hochberg, Seymore. 3,065,102.
Hoffman, Henry A., Jr., and Sherbeck. 3,019,119.
Hoffman, Lewis C. 3,055,762.
Hoffman, Lewis C. 3,061,449.
Hohberg, Jerome. 3,015,604.
Holland, Russell S. 3,058,807.
Holland, Russell S., and Wayrynen. 3,063,863.
Hollowell, Joseph L. 3,067,482.
Hollowell, Joseph L. 3,067,483.
Holmquist, Howard E. 3,068,272.
Hoover, Fred W. 3,040,082.
Hope, Marion R. 3,042,341.
Howard, Edward G. 3,055,874.
Howard, Edward G., Jr. 3,035,030.
Howk, Benjamin W. 3,053,808.
Howk Benjamin W., and Sauer. 3,055,949.
Hubbard, Harold M., and Kennedy. 3,047,361.
Hughes, Allan B., and Rogers. 3,042,325.
Hughes, Jesse B., Lozier, and Noland. 3,047,440.
Hume, Harold F., and Radow. 3,039,171.
Humphreys, Charles R. 3,017,740.
Humphreys, Charles R. 3,038,295.
Hunt, Heman D. 3,033,678.
Hunt, Heman D. 3,033,682.
Hutchens, George H., and Duncan. 3,058,843.
Hutchens, George H., and Duncan. 3,063,293.
Hyde, Thomas J. 3,022,262.
Hyson, Archibald M., and Stahler. 3,030,212.
Hyson, Archibald M., and Stahler. 3,062,659.
Hyson, Archibald M., and Todd. 3,024,272.
Iannarone, Joseph J., Jr. 3,025,127.
Iannerone, Joseph J., Jr. 3,058,798.
Iannicelli, Joseph. 3,052,653.
Iannicelli, Joseph. 3,068,207.
Ikeda, Carol K. 3,053,733.
Ikeda, Carol K. 3,058,933.
Ikeda, Carol K. 3,058,934.
Iler, Ralph K. 3,041,205.
Ingraham, John N., and Swoboda. 3,034,988.
Ingraham, John N., and Swoboda. 3,068,176.
Inman, Byron N. 3,056,655.
Inskip, Harold K., and Kring. 3,033,843.
Jackson, Harold L. 3,043,663.
Jackson, Harold L. 3,068,069.
Jackson, Julius. 3,030,370.
Jarvie, John M. S., Schuler, and Sterling. 3,048,610.
Jenkins, Gordon L., and Kring. 3,049,495.
Jenkins, William A., and Kennedy. 3,034,855.
Jenkins, Wilmer A., II, and Jacobson. 3,020,148.
Jenner, Edward L. 3,022,358.
Jennings, Andrew B. 3,036,914.
Jennings, Andrew B. 3,063,838.
Johnson, Roger A. 3,032,546.
Kalil, James. 3,050,483.
Kamlet, Jonas. 3,051,573.
Kane, William P. 3,027,343.
Kane, William P. 3,065,104.
Kane, William P. 3,068,229.
Kasey, Robert A., Jr. 3,041,861.
Kasper, Klaus B. 3,022,357.
Kealy, Thomas J. 3,062,820.
Kealy, Thomas J. 3,069,397.
Keidel Frederick A. 3,062,732.
Keiser, Neil. 3,045,283.
Kelemen, Denis G. 3,017,251.
Keller, Edwin H. 3,063,189.
Kilian, Joseph J. 3,050,821.
King, William J. 3,034,848.
Kinney, George A. 3,042,524.
Kirby, Arthur F., and Smiley. 3,035,100.
Kirst, William E. 3,026,221.
Kjellmark, Eric W., Jr. 3,015,651.
Klenke, Edward F., Jr. 3,041,347.
Knospe, Robert H. 3,036,988.
Koch, Theodore A., and Robinson. 3,036,119.
Koch, Theodore A., Robinson, and Wiley. 3,065,264.
Kochis, Paul E. 3,063,957.
Kogon, Irving C. 3,036,996.
Koller, Charles R. 3,070,562.
Kovarik, Frank J. 3,038,240.
Kovarik, Frank J., and Latschar. 3,018,157.
Kremer, Vincent W., and Rowbottom. 3,053,881.
Krespan, Carl G. 3,052,691.
Krespan, Carl G. 3,052,732.
Krespan, Carl G. 3,069,433.
Kruse, Jurgen M. 3,057,716.
Kuiper, Barteld E. 3,035,092.
Kwolek, Stephanie L., Morgan, and Sorenson. 3,063,966.
Lake, Donald B., and Shaffer. 3,048,546.
Langsdorf, William P., Jr., MacDonald, and Schweitzer. 3,017,389.
Lawrence, Augustine H., Jr., and Dowling. 3,042,479.
Lees, Ray F. 3,061,874.

Du Pont de Nemours, E. I., and Co.: *See*—Continued
Lewis, Cameron D., MacDonald, and Schweitzer. 3,043,-803.
Lieberman, Erwin P. 3,026,294.
Limperos, George. 3,067,085.
Linton, William H., Jr., and Munger. 3,068,525.
Lipscomb, Robert D. 3,043,662.
Littler, Clarence A. 3,060,084.
Livingston, Richard D., and Treadwell. 3,055,053.
Loftus, William H. 3,020,221.
Lovejoy, Elwyn R. 3,016,405.
Loveless, Harold K. 3,057,013.
Luckenbaugh, Raymond W. 3,037,853.
Lufkin, James E. 3,057,012.
Lufkin, James E. 3,062,801.
Luzena, Veri E. 3,057,749.
MacLachlan, Alexander. 3,057,790.
Mallouk, Robert S. 3,030,328.
Mallouk, Robert S. 3,051,683.
Malmquist, Alfred B. 3,022,189.
Malmquist, Alfred B. 3,041,322.
Marks, Barnard M., and Whipple. 3,037,953.
Maros, Frank G., and Stephan. 3,052,590.
Marsh, Frank D. 3,032,400.
Martin, Elmore L. 3,026,348.
Martin, Elmore L. 3,070,622.
Martin, Kenneth V. 3,048,629.
Massey, William M. 3,022,539.
Mastrangelo, Sebastian V. R. 3,023,077.
Mastrangelo, Sebastian V. R., and Swamer. 3,026,359.
Matray, Otto J., and Stine. 3,050,822.
McCormick, Gordon R. 3,028,627.
McDonald, Charles C. 3,055,758.
McDowell, Maurice J. 3,037,881.
McGraw, William J. 3,024,180.
McKinney, Alfred H., and Reily. 3,020,795.
McKusick, Blaine C., and Putnam. 3,035,034.
McKusick, Blaine C., and Roland. 3,026,326.
McKusick, Blaine C., and Roland. 3,058,977.
McLeod, Henry G. 3,062,666.
McShane, Herbert F., Jr., and Verbanc. 3,041,364.
Meador, Harold G. 3,037,855.
Meerkamper, Beat, and Umberger. 3,058,826.
Mehler, Albert J., Jr., Proffitt, and Taylor. 3,039,173.
Meier, John W. 3,058,939.
Messinger, Lester H. 3,064,459.
Michel, Rudolph H. 3,068,201.
Middleton, William J. 3,052,726.
Middleton, William J. 3,067,233.
Middleton, William J. 3,069,395.
Middleton, William J. 3,069,396.
Mikell, William G. 3,017,669.
Milford, George N., and Wilkinson. 3,065,211.
Milford, George N., and Wilkinson. 3,065,212.
Miller, Henry C. 3,018,160.
Miller, Henry C. 3,051,546.
Miller, Jerry B. 3,038,927.
Miller, Richard A. 3,053,609.
Miller, Ross J. 3,020,844.
Miller, Ross J., and Noddin. 3,021,786.
Miller, William T., and Middleton. 3,048,609.
Minnich, John W. 3,051,720.
Minnich, John W., and Weed. 3,017,414.
Mochel, Walter E., and Plambeck. 3,016,297.
Monagle, John J., Jr., and Nace. 3,056,835.
Monet, Gilbert P. 3,069,465.
Monroe, George C., Jr. 3,031,433.
Moody, Frank B. 3,019,213.
Moore, Edward J. 3,035,395.
Morgan, James G. 3,021,229.
Morgan, Paul W. 3,068,527.
Moss, John. 3,048,553.
Moulds, Gordon M. 3,038,239.
Muetterties, Earl L. 3,019,086.
Muetterties, Earl L. 3,050,361.
Muetterties, Earl L. 3,054,661.
Muetterties, Earl L. 3,057,686.
Muetterties, Earl L. 3,063,809.
Muetterties, Earl L., and Parshall. 3,052,710.
Munn, George E. 3,060,225.
Nace, Harold R. 3,058,998.
Nichols, Louis A., Jr. 3,069,786.
Nicholson, Frank R. 3,039,143.
Nicholson, Frank R. 3,067,464.
Nicoll, William A. 3,018,188.
Niederhauser, Donald O. 3,032,397.
Niedzielski, Edmund L. 3,022,147.
Nijkamp, Derk J. E., Van Lochem, and Vos. 3,020,699.
Notley, Norman T. 3,036,915.
Notley, Norman T. 3,036,916.
Oberth, Adolf E., and Shacklett. 3,067,035.
Olson, Earl H. 3,069,837.
O'Neill, Philip P. 3,062,239.
Oppegard, Alfred L., and Stevenson. 3,026,213.
Oppegard, Alfred L., and Stevenson. 3,067,051.
Osdal, Le Verne K. 3,062,764.
Owens, John E. 3,040,244.
Owens, John E. 3,068,528.
Oxenham, Peter R. 3,050,207.
Pailthrop, John R., and Smith. 3,056,767.
Pamm, Georges. 3,050,820.
Paris, Olden E. 3,035,022.
Pariser, Rudolph, and Perkins. 3,035,012.

Du Pont de Nemours, E. I., and Co.: *See*—Continued
Pariser, Rudolph, and Souffie. 3,042,652.
Parrish, Esperanza, and McCartney. 3,062,702.
Parshall, George W. 3,035,949.
Pascal, Ivan. 3,019,261.
Pasfield, William H. 3,024,199.
Patten, Stanley H., and Kunes. 3,043,710.
Patterson, Donald, Jr. 3,025,699.
Pease, Donald C. 3,026,173.
Pedersen, Charles J. 3,038,299.
Pedersen, Charles J. 3,038,300.
Perri, Joseph M. 3,041,707.
Perry, Robert W., Jr. 3,016,599.
Peters, John I. 3,052,535.
Pierce, Norwin C., and Ryder. 3,057,702.
Pikl, Josef. 3,032,561.
Pitts, Leonard S. 3,025,278.
Plesmid, Frank J. 3,058,892.
Pretka, John E. 3,021,232.
Prichard, William W. 3,034,928.
Proskow, Stephen. 3,026,304.
Pruett, Richard D. 3,061,577.
Putnam, Robert E., and Walter. 3,032,536.
Quinn, James D. 3,059,238.
Quinn, James M. 3,054,767.
Quinn, James M. 3,054,768.
Raasch, Maynard S. 3,066,070.
Radow, Norman, and Roseveare. 3,039,174.
Regan, John F. 3,052,717.
Reinhardt, Heinz F. 3,055,766.
Remy, David C. 3,055,938.
Remy, David C. 3,061,590.
Rexford, Dean R. 3,051,677.
Rhein, John H. W. 3,036,792.
Rhein, John H. W., Jr. 3,034,736.
Rice, Arthur R., and Wilder. 3,062,762.
Richter, John W. 3,023,212.
Richter, John W. 3,023,213.
Richter, John W. 3,023,214.
Ringwald, Owen E. 3,050,366.
Robbins, Gordon B. 3,038,775.
Roedel, Milton J. 3,055,784.
Rogers, Arthur O. 3,045,069.
Rogers, Arthur O. 3,068,260.
Roselle, Donald O. 3,034,526.
Ross, John M., and Smith. 3,068,238.
Rothenmeyer, Robert H. 3,028,811.
Roussel, Philip A. 3,040,023.
Ryan, Dennis L., Jr. 3,030,290.
Ryker, Truman C. 3,034,949.
Sacks, David. 3,020,621.
Saegebarth, Klaus A. 3,056,841.
Saegebarth, Klaus A. 3,060,244.
Sanders, Phillip F. 3,043,900.
Sanderson, James J. 3,032,521.
Sanderson, James J. 3,036,976.
Sanderson, James J. 3,055,851.
Sandy, Charles A., and Werntz. 3,041,154.
Sartori, Mario F. 3,029,272.
Sartori, Mario F. 3,033,847.
Sartori, Mario F. 3,033,879.
Sausen, George N. 3,055,740.
Schaefgen, John R. 3,069,391.
Schaefgen, John R., and Shivers. 3,044,987.
Scheule, Harold J. 3,037,951.
Schmidt, Webster R. 3,025,185.
Schott, Hans. 3,038,870.
Schumacher, Frederick G. 3,021,235.
Scott, John W. 3,033,845.
Scribner, Richard M. 3,057,931.
Searle, Norman E. 3,022,151.
Sebelist, Frederick J., and Weir. 3,057,909
Seiter, Eugene D. 3,043,570.
Seney, John S. 3,037,106.
Seney, John S. 3,040,153.
Seney, John S., and Woodell. 3,052,268.
Seyler, Ralph C. 3,025,242.
Sherwood, Laurence T., Jr. 3,050,500.
Shivers, Joseph C., Jr. 3,023,192.
Shivers, Joseph C., Jr. 3,044,989.
Short, Oliver A. 3,032,440.
Siemons, Willem J., Kelemen, and Steckl. 3,046,100.
Simmons, Howard E., Jr. 3,029,252.
Simmons, Howard E., Jr. 3,052,681.
Simmons, Howard E., Jr. 3,048,570.
Smeltz, Kenneth C. 3,055,953.
Smith, George W. 3,040,096.
Smith, George W., and Williams. 3,053,907.
Smith, John F. 3,039,992.
Smith, John F. 3,061,574.
Smith, William C. 3,026,179.
Snyder, James M. 3,015,539.
Sowards, Donald M. 3,026,220.
Speed, David B. 3,051,550.
Spellman, James E. 3,060,500.
Spiegler, Louis. 3,069,280.
Stallmann, Otto. 3,038,941.
Stalter, Neil J. 3,017,236.
Starr Roy E. 3,040,022.
Starn, Roy E., Jr. 3,027,361.
Stephens, Curtis W. 3,049,518.
Stephens, Curtis W. 3,069,393.

Du Pont de Nemours, E. I., and Co.: *See*—Continued
Steuber, Walter. 3,044,990.
Steuber, Walter. 3,051,545.
Stewart, Clare A., Jr. 3,058,960.
Stewart, Clare A., Jr. 3,061,653.
Stiner, Cyril W. 3,068,545.
Strauss, Howard W. 3,029,230.
Strauss, Howard W. 3,033,840.
Strolle, Clifford H. 3,068,183.
Struve, William S. 3,024,268.
Struve, William S., and Reidinger. 3,031,501.
Swoboda, Thomas J. 3,039,964.
Swoboda, Thomas J. 3,039,965.
Tait, Robert A. 3,050,774.
Tassler, Milford C. 3,057,825.
Taylor, Robert B., Jr. 3,038,237.
Thomas, John C. 3,030,399.
Tietz, Raymond F. 3,020,265.
Tocker, Stanley. 3,043,818.
Tocker, Stanley. 3,062,784.
Todd, Charles W. 3,031,292.
Truett, William L., and Merckling. 3,063,979.
Tullio, Victor. 3,044,843.
Tullock, Charles W. 3,052,723.
Tullock, Charles W. 3,057,849.
Turner, Vernon L., Jr. 3,032,401.
Umberger, Jacob Q., and Wahlig. 3,062,750.
Valerius, Harold R., Jr. 3,061,164.
Vasta, Joseph A. 3,065,195.
Veivel, William E. 3,040,008.
Van Scoy, Victor S. 3,049,230.
Vernon, Harcourt C., and Walsh. 3,058,093.
Ver Nooy, Charles D., III. 3,022,356.
Vest, Robert D. 3,053,853.
Vinal, Leroy W. 3,039,516.
Ward, Barry J. 3,046,724.
Walker, Richard L. 3,040,063.
Walter, Henry C. 3,032,537.
Wamsley, Welcome W. 3,038,441.
Waritz, Richard S. 3,035,073.
Watkins, Robert A. 3,034,925.
Wayrynen, Robert E. 3,034,990.
Wayrynen, Robert E. 3,052,638.
Weed, Mark B. 3,022,150.
Weis, Claus D. 3,060,198.
West, William A. 3,057,872.
Wheeler, Norris G. 3,051,718.
Whitlock, Harold E. 3,046,263.
Wilcox, Forrest S. 3,026,229.
Wiley, Douglas W. 3,040,083.
Wilkinson, William K. 3,027,222.
Willcox, Oswin B. 3,038,849.
Willey, Leroy D., Jr. 3,046,099.
Williams, John K. 3,040,056.
Williams, John K. 3,040,084.
Winstein, Saul. 3,066,148.
Wittbecker, Emerson L. 3,036,979.
Wolf, Herbert O. 3,047,642.
Wolfe, William R., Jr. 3,017,335.
Wolinski, Leon E. 3,042,971.
Wolinski, Leon E. 3,049,394.
Wolinski, Leon E. 3,061,882.
Woodell, Rudolph. 3,042,482.
Wu, Tse C. 3,038,238.
Yeo, Robert A. 3,022,143.
Yolles, Seymour. 3,053,683.
Yuan, Edward L. 3,025,183.
Yuk, James P. 3,039,895.
Zimmerman, Joseph. 3,038,235.
Zimmerman, Leon H., Jr. 3,053,473.

Du Pont of Canada Ltd.: *See*—
Tomson, Richard J. 3,050,235.

Du Pont, Robert G., to American Greiner Electronic Inc. Navigational aid. 3,037,693, 6–5–62, Cl. 235—61.

Dupont, S. T., Societe: *See*—
Cassan, Michel C. R. 3,063,276.

Düppengiesser, Karl A. Spade. 3,064,500, 11–20–62, Cl. 76—113.

Dupre, Eugene J.: *See*—
La Bore, Leonard J., and Dupre. 3,030,251.

Dupre, Gilbert J. Copy camera. 3,045,539, 7–24–62. Cl. 88—24.

Dupre, Henry P.: *See*—
Bonwitt, Wilhelm F., and Dupre. 3,065,440.

Dupre, Henry P., to Burndy Corp. Tapered pin coaxial connection. 3,025,492, 3–13–62, Cl. 339—177.

Dupre, Jean, and R. E. Wolfrom, to Rohm & Haas Co. Low foam, high wetting polypropylene-terminated alkylphenoxypolyethoxyalkanols. 3,021,372, 2–13–62, Cl. 260—613.

Dupuy, Andre, and G. Wallser, to Karl M. Reich Maschinenfabrik. Pneumatic nailing machine. 3,049,713, 8–21–62, Cl. 1—44.4.

Dupuy, Harold P., L. A. Goldblatt, and F. C. Magne, to United States of America, Agriculture. 4-(12-beta-cyanoethylricinoleoyl) derivatives of morpholine. 3,052,680, 9–4–62, Cl. 260—247.7.

Duquesne, Victor. Axially extending tool mounting column for disc wheels. 3,063,484, 11–13–62, Cl. 144—288.

Dura Corp.: *See*—
Adamski, Joseph. 3,036,859.
Cook, James M., and Hovanec. 3,069,151.
Keller, August, and Csizmansky. 3,056,973.

Dura Corp.: *See*—Continued
McLeod, Stewart B. 3,032,059.
Myers, Richard L. 3,051,522.
Page, Ancel S. 3,046,036.
Ross, William A. 3,018,848.
Schutt, Lester E. 3,016,919.
Weaver, Ira A. 3,051,141.

DuraCraft Boats, Inc.: *See*—
Ward, William W. and M. H. 3,032,785.

Dura-Design Plastics Ltd.: *See*—
Pierce, Harry F. 3,048,169.

Durand, Arthur H.: *See*—
Tolaas, William M., and Durand. 3,018,938.

Durand-Couppel de Saint Front, Marin-Marie, Dit: Marin-Marie, France. Apparatus for launching a boat from shipboard. 3,052,898, 9–11–62, Cl. 9—41.

Durand, Fred A., Jr. Cooling device. 3,060,701, 10–30–62, Cl. 62—375.

Durand, Fred A., Sr., to Durand Machinery, Inc. Machine for sorting articles by size. 3,038,605, 6–12–62, Cl. 209—102.

Durand & Huguenin A.G.: *See*—
Graf, Franz. 3,060,167.

Durand Machinery, Inc.: *See*—
Durand, Fred A., Sr. 3,038,605.

Durand, Robert D.: *See*—
Stange, Klaus K., and Durand. 3,064,969.

Durant Insulated Pipe Co.: *See*—
Andrews, Thomas I. 3,039,140.

Durant, Lyndon A., to United Music Corp. Automatic rejector for phonographs. 3,028,160, 4–3–62, Cl. 274—1.

Durant, Lyndon A., to United Music Corp. Record player and selecting system therefor. 3,028,580, 4–3–62, Cl. 340—162.

Dura-Pak Corp.: *See*—
Glaser, Irving D. 3,036,853.

Durbin, Edward, to Sperry Rand Corp. Hyperbolic navigation receiver. 3,044,064, 7–10–62, Cl. 343—103.

Durbin, Edward and E. M. Drogin, to Sperry Rand Corp. Automatic gain control system. 3,034,119, 5–8–62, Cl. 343—181.

Durbin, Merl A. Headlite adjusting device. 3,047,958, 8–7–62, Cl. 33—180.

Durbin, Vernon, to Holtyer-Cabot Corp. Cooking utensil. 3,047,188, 7–31–62, Cl. 220—63.

Durdin, Augustus C., III, to Barber-Colman Co. Automatic hobbing machine. 3,021,764, 2–20–62, Cl. 90—1.

Durdle, Harold, to Hupp Corp. Air conditioner condensate disposal system. 3,045,449, 7–24–62, Cl. 62—279.

Durdy, Arnold, to American Radiator & Standard Sanitary Corp. Water-closet basin and cistern units. 3,060,452, 10–30–62, Cl. 4—71.

Durex, Inc.: *See*—
Denholtz, Edward J. 3,019,466.

Durfey, David L., to H. A. Kirk. Retractable stabilizer for water skis. 3,066,327, 12–4–62, Cl. 9—310.

Durget, André, to Anciens Etablissements Goldenberg & Cie. Anchoring device with resilient tie means for automatic pre-anchoring. 3,049,041, 8–14–62, Cl. 85—2.4.

Durgin, Douglas C., and J. W. Dodsworth, to Monroe Calculating Machine Co. Crawl carry mechanism. 3,051,385, 8–28–62, Cl. 235—136.

Durgin, Harry E. Compressor. 3,061,180, 10–30–62, Cl. 230—144.

Durham, Edwin, to The Babcock & Wilcox Co. High temperature fluid heater. 3,020,895, 2–13–62, Cl. 122—235.

Durham, Edwin, and H. E. Weaver; said Durham assor. to The Babcock & Wilcox Co., and said Weaver assor. to Bailey Meter Co. Control systems. 3,028,844, 4–10–62, Cl. 122—479.

Durham Enders Razor Co.: *See*—
Sidney, Milton M., and Goodrich. 3,057,058.

Durham, Hobart N., Temperature-controlled timer. 3,034,-283, 5–15–62, Cl. 58—22.4.

Durham, Howard P. Test grading device. 3,054,196, 9–18–62, Cl. 35—48.

Durham, Raymond F., and J. M. Koepcke, to Carrier Corp. Ice making. 3,045,442, 7–24–62, Cl. 62—71.

Durie & Miller of Canada Ltd.: *See*—
Roberts, Frank S. 3,031,325.

Duriron Co., Inc., The: *See*—
Bryan, William T., and Arwine. 3,043,765.
Schenck, Robert C., and Freed. 3,040,670.
Schenck, Robert C. 3,063,727.

Durkee, Daniel P.: *See*—
La Freniere, Lawrence J., and Durkee. 3,056,527.

Durkee, Everett L.: *See*—
Lowe, Edison, Durkee, and Hamilton. 3,046,143.

Durkee, James D., C. H. Stewart, and W. E. Peugh, to Bell & Gossett Co. Selective calling system. 3,035,250, 5–15–62, Cl. 340—171.

Durkee, John E., to General Dynamics Corp. Super-regenerative transistor detector. 3,025,394, 3–13–62, Cl. 250—20.

Durkee, John E., to General Dynamics Corp. Transistor receiver squelch circuit. 3,038,071, 6–5–62, Cl. 250—20.

Durkin, Joseph A., and O. F. Fayne, to Sonoco Products Co. Foam coated paper tube. 3,070,281, 12–25–62, Cl. 229—93.

Durkoppwerke Aktiengesellschaft: *See*—
Baumann, Albert, and Grube. 3,040,912.
Kastrup, Werner. 3,040,681.
Nicolay, Karl. 3,063,321.
Pätzold, Georg, Myska, and Grube. 3,021,967.

Duro Co., The: *See*—
Wolfe, H. Hix, and Haas. 3,025,800.
Duro Metal Products Co.: *See*—
Odlum, William H., and Hosford. 3,041,023.
Duro-Test Corp.: *See*—
Swanson, Carl E. 3,066,040.
Thouret, Wolfgang E. 3,048,741.
Durocher, Hector R.: *See*—
Gordon, George F., and Durocher. 3,025,339.
Duron, Jean: *See*—
Boudkevitch, Wadim, and Duron. 3,039,457.
Durowe, A.G.: *See*—
Egger, Josef. 3,058,293.
Schöninger, Edgar. 3,061,796.
Zemla, Ewald. 3,046,460.
Zemla, Ewald. 3,058,294.
Dürr, Walter, and H. Ansel, to Heizmotoren G.m.b.H., Firma. Starters for fogging, spraying, heating and like apparatus. 3,033,276, 5–8–62, Cl. 158—28.
Durrum, Emmett L., to Beckman Instruments, Inc. Agar-Agar system and additive. 3,062,731, 11–6–62, Cl. 204—180.
Durrwerke Aktiengesellschaft: *See*—
Beyerlein, Herbert. 3,019,774.
Deithhaus, Karl. 3,037,491.
Durst, Carl F., and F. R. Durst, deceased (by Frances Durst, executrix), to Organ Supply Corp. Organ valve and actuating means therefor. 3,058,383, 10–16–62, Cl. 84—337.
Durst, Frances: *See*—
Durst, Carl F. and F. R. 3,058,383.
Durst, Frederick R.: *See*—
Durst, Carl F. and F. R. 3,058,383.
Durst, Gilberto, to Durst S.p.A. Fabbrica Macchine ed Apparecchi Fototecnici. Pneumatic suction plate. 3,064,524, 11–20–62, Cl. 88—24.
Durst, Henry J.: *See*—
Wendelburg, Frank W., Evans, and Durst. 3,039,036.
Durst, Norman H. Movable arc form and building method. 3,016,595, 1–16–62, Cl. 25—131.
Durst S.p.A. Fabbrica Macchine ed Apparecchi Fototecnici: *See*—
Durst, Gilberto. 3,064,524.
Durst, William P. Lift track. 3,055,454, 9–25–62, Cl. 187—8.67.
Duruy, George: *See*—
Samman, Gerard R. F., and Duruy. 3,070,454.
Dury, Karl: *See*—
Reicheneder, Franz, Dury, Suter, and Willersinn. 3,027,401.
Reicheneder, Franz, and Dury. 3,054,739.
Duryea, Virgil M. Fishing jigs. 3,031,790, 5–1–62, Cl. 43—19.2.
Dusbabek, Mark R.: *See*—
Johns, Floyd L., Gronemeyer, and Dusbabek. 3,052,615.
Duschinsky, Robert, to Hoffmann-La Roche Inc. Processes and intermediates for deoxyfluorocytidine. 3,040,026, 6–19–62, Cl. 260—211.5.
Dusenbery, John, Co., Inc.: *See*—
Cohen, Martin J., Young, Dusenbery, and Gibson. 3,031,152.
Dusenbury, Charles E., to E. I. du Pont de Nemours and Co. Apparatus for orienting continuous filament yarns. 3,045,-315, 7–24–62, Cl. 28—59.5.
Dusenbury, John F.: *See*—
Young, Roger W., and Dusenbury. 3,055,605.
Du Shane, Wallace H., to Deere & Co. Hitch devices with detachable guide means. 3,017,200, 1–16–62, Cl. 280—477.
Du Shane, Wallace H., and S. A. Olsen, to Deere & Co. Control mechanism. 3,040,596, 6–26–62, Cl. 74—482.
Dusing, Charles F., to Dusing and Hunt, Inc. Sliding door binder. 3,039,153, 6–19–62, Cl. 20—19.
Dusing, Charles F., and C. F. Gerhardt, to Dusing and Hunt, Inc. Door lock support construction. 3,039,291, 6–19–62, Cl. 70—431.
Dusing and Hunt, Inc.: *See*—
Dusing, Charles F. 3,039,153.
Dusing, Charles F., and Gerhardt. 3,039,291.
Gerhardt, Carl F. 3,039,573.
Dusing, Josef: *See*—
Hagge, Walter, Dusing, and Kolbe. 3,058,919.
Duskey, Edmund L., to Kaiser Aluminum & Chemical Corp. Aluminum foil container. 3,021,990, 2–20–62, Cl. 229—3.5.
Dusold, Georg: *See*—
Meurer, Siegfried, and Dusold. 3,063,435.
Meurer, Siegfried, Wiebicke, Lachmann, and Dusold. 3,020,896.
Dussart, Frederick L., to American Can Co. Sheet feeding machine. 3,049,347, 8–14–62, Cl. 271—8.
Dussek Bros. & Co. Ltd.: *See*—
Bennett, Geoffrey E. Re. 25,187.
Thompson, Archibald W., and Freeborn. Re. 25,188.
Dussy, Paul: *See*—
Beffa, Fabio, Dussy, and Schetty. 3,068,219.
Dustex Corp.: *See*—
Morris, Lewis D., and Brookman. 3,060,663.
Dustman, Robert B., Jr., to E. I. du Pont de Nemours and Co. Hydrogen peroxide-ammonium bicarbonate acidic bleaching composition and process. 3,034,851, 5–15–62, Cl. 8—111.
Dusza, John P.: *See*—
Joseph, Joseph P., Dusza, and Bernstein. 3,069,440.
Dusza, John P., and S. Bernstein, to American Cyanamid Co. Method of preparing 16,17-disubstituted-4-pregnenes. 3,060,208, 10–23–62, Cl. 260—397.45.
Dusza, John P., and S. Bernstein, to American Cyanamid Co. Pregnadiene enol ether orthoesters. 3,069,419, 12–18–62, Cl. 260—239.55.
Dutch, Emery. Device for treating a sheet such as a sheet of light-sensitive material. 3,033,351, 5–8–62, Cl. 198—178.
Dutcher, Donald G.: *See*—
Harper, Willard J., Hauck, Moll, and Dutcher. 3,022,-881.
Dutcher, Ival G., to The Maytag Co. Door for appliance cabinets and the like. 3,027,217, 3–27–62, Cl. 312—276.
Dutcher, Ray M., R. B. Read, Jr., and W. Litsky. Preparation of virus vaccines. 3,060,094, 10–23–62, Cl. 167—78.
Duthion, Louis: *See*—
Bertin, Jean H., Kadosch, and Duthion. 3,066,485.
Duthion, Louis, and J. H. Bertin, to Bertin et Cie (societe anonyme), Societe. Discharge nozzle for jet silencing. 3,039,560, 6–19–62, Cl. 181—33.
Dutschmann, Max, and G. Schulze, to Fortschritt Erntebergungsmaschinen, VEB. Agricultural bailing press. 3,035,-391, 5–22–62, Cl. 56—341.
Dutt, Trevor L., to The General Electric Co. Ltd. Microwave arc-type modulator. 3,069,634, 12–18–62, Cl. 332—8.
Düttmann, Peter, to Daimler-Benz Aktiengesellschaft. Propulsion system for airplanes. 3,025,025, 3–13–62, Cl. 244—62.
Dutton, Donald A., to General Dynamics Corp. Generator of random double pulse pairs. 3,058,011, 10–9–62, Cl. 307—88.5.
Dutton, Edward E.: *See*—
Luthi, Alois G., and Dutton. 3,026,660.
Dutton-Lainson Co.: *See*—
Nelson, Marvin D., and Cole. 3,051,446.
Dutton, Oscar B., to Hoffman Electronics Corp. Teletypewriter receiver or the like. 3,038,963, 6–12–62, Cl. 178—88.
Dutton, Warren A.: *See*—
Early, Harold C., and Dutton. 3,027,791.
Duval, Bruce: *See*—
Waddington, Rogor S., and Duval. 3,042,077.
Duval Sulphur & Potash Co.: *See*—
Smith, Millard L., and Witman. 3,026,194.
Duvall, Elmer E. Wall mounted simulated Christmas tree. 3,027,671, 4–3–62, Cl. 41—15.
Duvall, George H., W. E. Hammersla, and P. P. Koliss, to Bell Telephone Laboratories, Inc. Splice closure for sheathed cable. 3,061,666, 10–30–62, Cl. 174—92.
Duvall, Ivo W. Motor driven fishing reel device. 3,017,134, 1–16–62, Cl. 242—84.44.
Duvall, Jacque L., to Wyandotte Chemicals Corp. Chemical milling of magnesium articles. 3,031,276, 4–24–62, Cl. 156—18.
Duvall, Walter J. Passage set. 3,042,437, 7–3–62, Cl. 292—358.
Du Vall, Wilbur E., to W. W. Henry Co., Inc. Frequency-selective audio receiver. 3,028,556, 4–3–62, Cl. 328—136.
Du Vall, Wilbur E., to The W. W. Henry Co. Auxiliary power supply. 3,049,623, 8–14–62, Cl. 306—66.
Du Vall, Wilbur E., to W. W. Henry Co., Inc. Pulse generator for fish treatment. 3,050,695, 8–21–62, Cl. 331—52.
Du Vall, Wilbur E., and W. Gammon, to W. W. Henry Co., Inc. Exposure totalizer. 3,056,922, 10–2–62, Cl. 324—68.
Duvergie, Daniel: *See*—
Brucker, Jacques, and Duvergie. 3,033,411.
Du Waldt, Benjamin F. Hand operated arbor press. 3,040,-656, 6–26–62, Cl. 100—288.
Duyvene de Wit, Erik, to Organon Inc. New esters of 19-nor-testosterone. 3,016,388, 1–9–62, Cl. 260—397.4.
Duzan, James T.: *See*—
Lowe, Edwin L., and Duzan. 3,033,113.
Dvořáček, Josef, to Vyzkumny a zkusebni letecky ustav. Magnetostrictive torsional pick-up. 3,056,099, 9–25–62, Cl. 336—20.
Dvorak, Howard A., to Western Electric Co., Inc. Soldering device. 3,041,991, 7–3–62, Cl. 113—126.
Dvorak, William W., and J. L. Gibson, to Acme Steel Co. Pipe bundling machine. 3,018,596, 1–30–62, Cl. 53—198.
Dwaayer, Ella B.: *See*—
Brumfield, Richard S., Dwaayer, Shanty, and Shoemaker. 3,049,121.
Dwinell, Dwight J.: *See*—
Sevy, Samuel E., Bienvenue, and Dwinell. 3,069,583.
Dwinell, Dwight J., and J. J. Chadderton, to Sylvania Electric Products, Inc. Cane cutting apparatus. 3,036,405, 5–29–62, Cl. 49—48.
Dwinell, Richard C., and A. L. Groo, to Welmaid Products Inc. Ironing board cover. 3,064,374, 11–20–62, Cl. 38—140.
Dworak, Theodore A. Ski mounting apparatus and sled therefor. 3,030,123, 4–17–62, Cl. 280—26.
Dwyer, F. W., Mfg. Co.: *See*—
Dwyer, Frank W., and Locke. 3,024,655.
Dwyer, Frank W., and J. P. Locke, to F. W. Dwyer Mfg. Co. Filter gauge. 3,024,655, 3–13–62, Cl. 73—209.
Dwyer, John E., to The M. W. Kellogg Co. Furnace. 3,040,-718, 6–26–62, Cl. 122—356.
Dwyer, John B., to The M. W. Kellogg Co. Conversion of hydrocarbons and carbonaceous materials. 3,048,476, 8–7–62, Cl. 23—284.

Dwyer, L. E.: *See*—
Roberts, Earl T. 3,029,362.
Dwyer, Paul M. Material handling means. 3,048,288, 8–7–62, Cl. 214—147.
Dwyer, Russell A. Tourniquet. 3,051,179, 8–28–62, Cl. 128—327.
Dwyer, Thomas W. Spark arrester. 3,055,160, 9–25–62, Cl. 55—282.
Dyar, Robert L. Method of constructing abrasive coated cylinders. 3,023,121, 2–27–62, Cl. 117—18.
Dyche, Leslie. Feed mechanism for presses. 3,040,863, 6–26–62, Cl. 198—24.
Dye, Duane K.: *See*—
Deford, Donald E., and Dye. 3,046,759.
Dye, Edward R. Safety harness. 3,028,200, 4–3–62, Cl. 297—389.
Dye, James E.: *See*—
Gabrielsen, Bramwell W., and Dye. 3,058,743.
Dye, Robert F.: *See*—
Pennington, Edward N., Dye, Brown, and Wood. 3,038,-788.
Dye, Robert F., to Phillips Petroleum Co. Polymerization process. 3,023,203, 2–27–62, Cl. 260—94.9.
Dye, Robert F., to Phillips Petroleum Co. Carbon black plant. 3,024,093, 3–6–62, Cl. 23—259.5.
Dyer, Alvah F., to Phillips Petroleum Co. Fluid handling structure. 3,035,609, 5–22–62, Cl. 137—506.
Dyer, Arthur M. Apparatus for dispensing measured quantities of liquids. 3,044,666, 7–17–62, Cl. 222—145.
Dyer, Charles J.: *See*—
Kamborian, Jacob S., Dyer, and Baker. 3,060,468.
Dyer, George A., and R. J. Patterson, to North American Aviation, Inc. Temperature stabilized oven. 3,028,473, 4–3–62, Cl. 219—20.
Dyer, Henry B.: *See*—
Custers, Jan F. H., Dyer, Senior, and Wedepohl. 3,061,-877.
Dyer, John W., and R. L. Sprague, to General Motors Corp. Coincidental door locking apparatus for an automobile. 3,030,794, 4–24–62, Cl. 70—264.
Dyer, John W., B. H. Short, and W. R. Parker, to General Motors Corp. Windshield washer and coordinator. 3,015,-835, 1–9–62, Cl. 15—250.02.
Dyer, Otto M., Jr. Shoe toe shiner. 3,041,646, 7–3–62, Cl. 15—97.
Dyer, Otto M., Jr. Shoe shining machine. 3,069,712, 12–25–62, Cl. 15—97.
Dyer, Robert H., and R. P. Brown, to Cosden Petroleum Corp. Graft polymerization on a rubbery polymer in aqueous suspension employing polyvinyl alcohol and a metal phosphate as suspending agents, and product obtained thereby. 3,047,534, 7–31–62, Cl. 260—45.5.
Dyer, Robert K. Disposable concrete form for posts and columns. 3,024,512, 3–13–62, Cl. 25—118.
Dyer, Woodrow W. Universal bearing-pin steering knuckle assembly. 3,035,850, 5–22–62, Cl. 280—95.
Dygert, Justin C.: *See*—
Beins, Bereni M., and Dygert. 3,066,854.
Dykaar, Davis E.: *See*—
Davidson, William W., Jr., Dell, Dykaar, and Marlin. 3,048,099.
Dyke, Leslie A., to W. H. Smith & Son Ltd. Web-fed printing machines. 3,052,182, 9–4–62, Cl. 101—142.
Dykes, John F.: *See*—
Neff, Darby B., and Dykes. 3,049,800.
Neff, Darby B., and Dykes. 3,049,940.
Dykinga, Richard J.: *See*—
Stolle, Anthony D., and Dykinga. 3,038,040.
Dykrex Corp.: *See*—
Kaveny, John G., and Peterson. 3,037,328.
Dykstra, Fred J., to Ethyl Corp. Hydrocarbon fuels containing boron esters. 3,030,196, 4–17–62, Cl. 44—69.
Dylewicz, William E.: *See*—
Hilderbrandt, Edmund P., Fahnrich, and Dylewicz. 3,056,622.
Dymo Industries, Inc.: *See*—
Anderson, James D. 3,047,443.
Souza, David W. 3,036,945.
Dymon, Joseph J.: *See*—
Baird, Donald H., and Dymon. 3,034,986.
Baird, Donald H., Dymon, and Natansohn. 3,030,307.
DynaCo Mfg., Inc.: *See*—
Hadlock, Clarence S. 3,045,774.
Dynacolor Corp.: *See*—
Thomas, Charles D. 3,029,437.
Dynacor: *See*—
Vinson, Paul, and Hagner. 3,070,686.
Dynamic Engineering Corp.: *See*—
Huettner, Lothar A. 3,051,144.
Dynamic Filters Inc.: *See*—
Darnell, Rex C. 3,048,276.
Darnell, Rex C. 3,050,240.
Dynamic Instrument Corp.: *See*—
Sulger, Harold E. 3,052,335.
Dynamics Corp. of America: *See*—
Allen, Charles L. 3,027,115.
Altier, William J. 3,056,894.
Dynaquip: *See*—
Williams, Glynn H. 3,038,310.
Dyrkacz, Wasil W., E. E. Reynolds, and G. Aggen, to Allegheny Ludlum Steel Corp. Austenitic alloy. 3,065,068, 11–20–62, Cl. 75—124.
Dysard, William O., and R. L. Reitz. One-man foot-propelled water float. 3,067,441, 12–11–62, Cl. 9—347.
Dyson, Ernest F.: *See*—
Blakeslee, Clinton A., and Dyson. 3,023,282.
Dyson, James, to Associated Electrical Industries Ltd. Optical apparatus for measuring small distances. 3,068,743, 12–18–62, Cl. 88—14.
Dyson, John J., to The Parker Pen Co. Writing instruments. 3,030,925, 4–24–62, Cl. 120—42.
Dyson, Philip A. H.: *See*—
Douglass, Walter and A., and Dyson. 3,058,483.
Dziadulonis, Steven J. Machine for reducing and roughening the margin of a sole. 3,064,460, 11–20–62, Cl. 69—6.5.
Dzialo, Frank. Machine and method for reclaiming tin cans and the like to be made into alloyed billets of tin and metal. 3,031,745, 5–1–62, Cl. 29—403.
Dziedziula, Edward J., R. R. Pecoraro, and A. S. Sinatra, to Ref Mfg. Corp. Fluid dispensing device. 3,016,930, 1–16–62, Cl. 141—361.
Dzienisiewicz, Joseph E., ½0 to Gadget-Of-The-Month Club, Inc. Improved pants hanger. 3,017,059, 1–16–62, Cl. 223—91.
Dzierzanowski, Frank J.: *See*—
Haden, Walter L., Jr., and Dzierzanowski. 3,065,054.
Dziki, Mieczyslaw: *See*—
Schultz, George, and Dziki. 3,058,131.
Dzimianski, John W.: *See*—
Aarons, Melvin W., Dzimianski, and Bentley. 3,018,423.
Dziomba, Alexander: *See*—
Kesler, Martin L., Risberg, and Dziomba. 3,056,642.
Dzugan, George: *See*—
Crosby, Charles H., Dzugan, Hicks, and Wahlberg. 3,029,959.
Dzula, Boris: *See*—
Ost, Stanley B., and Dzula. 3,025,354.
Wright, Esmond P. G., Weir, Hinton, and Dzula. 3,025,341.
Dzurko, John A.: *See*—
Bottorf, James D., and Dzurko. 3,040,645.
Dzus Fastener Co., Inc.: *See*—
Dzus, Theodore, and Gunther. 3,055,071.
Dzus, Theodore, and C. Gunther, to Dzus Fastener Co., Inc. Clamp assembly. 3,055,071, 9–25–62, Cl. 24—221.
Dzus, William. Collar retainer. 3,026,528, 3–27–62, Cl. 2—132.
Dzus, William. Stud having overhanging re-entrant load bearing threads and a sheet metal nut with resilient helically inclined wings. 3,046,828, 7–31–62, Cl. 85—36.
ECP Corp.: *See*—
Weiss, Irving F. 3,040,243.
ENFO Entwicklungs- und Forschungs-Aktiengesellschaft: *See*—
Kehler, Theodore K. 3,056,425.
E.P.S. (Research & Development) Ltd.: *See*—
Gonda, Desire, and Hawley. 3,035,956.
EPSCO, Inc.: *See*—
Bothwell, Theodore P. 3,054,910.
ERB-Tobacco Products Co. Inc.: *See*—
Finberg, Joseph. 3,067,068.
E. & R. Inc.: *See*—
Carmen, Hyman. 3,049,719.
E-Z Beauty Products Co., Inc.: *See*—
Epstein, Paul G. 3,030,969.
E-Z Packaging Corp.: *See*—
Mitchell, Wallace F. 3,023,558.
Mitchell, Wallace F. 3,045,403.
Stuhlman, Frank A. 3,025,649.
Eachus, Joseph J., to Minneapolis-Honeywell Regulator Co. Error checking device employing tristable elements. 3,018,-954, 1–30–62, Cl. 235—153.
Eachus, Joseph J., to Minneapolis-Honeywell Regulator Co. Data processing apparatus. 3,019,422, 1–30–62, Cl. 340—174.1.
Eachus, Joseph J., to Minneapolis-Honeywell Regulator Co. Electrical impedance monitoring apparatus. 3,046,418, 7–24–62, Cl. 307—88.5.
Eachus, Joseph J., to Minneapolis-Honeywell Regulator Co. Diode-inductor coupling for cascaded transistor stages. 3,056,042, 9–25–62, Cl. 307—88.5.
Eachus, Joseph J., to Minneapolis-Honeywell Regulator Co. Bistable electronic switching circuitry for manipulating digital data. 3,067,336, 12–4–62, Cl. 307—88.5.
Eaddy, Ernest J., to Sunray Co. Sliver can and seal therefor. 3,053,410, 9–11–62, Cl. 220—93.
Eades, John H., ½ to C. E. Foote. Oil well heater. 3,062,-289, 11–6–62, Cl. 166—61.
Eades, Lawrence R., to Phillips Petroleum Co. Self-erecting collapsible containers. 3,044,515, 7–17–62, Cl. 150—1.
Eadie, Edward M., Jr., to Daystrom, Inc. Instrument type relay. 3,042,840, 7–3–62, Cl. 317—152.
Eadie, Hugh S., to The Grigsby Co., Inc. Detent. 3,059,-497, 10–23–62, Cl. 74—527.
Eads, Charles L., to Adams Rite Mfg. Co. Pry latch. 3,024,-054, 3–6–62, Cl. 292—126.
Eads, Charles L., to Adams Rite Mfg. Co. Sliding door latch. 3,041,097, 6–26–62, Cl. 292—113.
Eads, David K., and G. P. Brandt, to Callery Chemical Co. High pressure reaction of diborane and ethylene. 3,057,-924, 10–9–62, Cl. 260—606.5.
Eads, George L., and J. P. Dawkins, to Coffee Equipment, Inc. Automatic coffee brewer. 3,060,835, 10–30–62, Cl. 99—283.

Eads, Harold O., and J. W. Robison, to O. Ames Co. Furniture construction. 3,021,176, 2–13–62, Cl. 297—452.
Eady, Hilton H., 50% to J. N. Register. Solenoid operated can opener. 3,019,523, 2–6–62, Cl. 30—4.
Eagar, Lee J. Intermittent flow device. 3,055,387, 9–25–62, Cl. 137—416.
Eager, George S., Jr.: *See*—
Rubinstein, Solomon, Garner, and Eager. 3,023,267.
Eager, William A.: *See*—
Bell, Lewis W., Eager, and Maynard. 3,055,008.
Eagle, John H.: *See*—
Nerwin, Hubert, and Eagle. 3,054,337.
Stimson, Allen G., and Eagle. 3,033,094.
Stimson, Allen G., Eagle, Ferry, and Border. 3,033,093.
Eagle, John H., and H. E. Brayer, to Eastman Kodak Co. Splicing equipment for film and tape. 3,053,711, 9–11–62, Cl. 154—43.
Eagle, Manny: *See*—
Eagle, Martin. 3,039,357.
Eagle, Martin, to M. Eagle. Photographic assembly and apparatus therefor. 3,039,357, 6–19–62, Cl. 88—24.
Eagle-Picher Co., The: *See*—
Achterhof, Marvin, Henley, and Schriner. 3,026,271.
Chubb, Melvin F., and Dines. 3,022,364.
Gora, Henry Z. 3,048,894.
Losse, Paul L. 3,030,250.
Schriner, John E. 3,066,351.
Schriner, John E., and Dice. 3,037,150.
Van Dolah, Harry J., and Linhart. 3,017,279.
Eagle Lock Corp.: *See*—
Regan, John F. 3,065,623.
Testa, Frank J. 3,035,433.
Eagle Mfg. Co.: *See*—
Richmond, Roy H. 3,047,195.
Eagleson, Edwin W.: *See*—
Noyes, William R. 3,038,382.
Eagleton, Sidney D., and S. J. Skinner. Refining thermoplastic resins. 3,030,665, 4–24–62, Cl. 18—48.
Eakin, Kenneth G., to United States of America, Air Force. Microwave generator. 3,065,377, 11–20–62, Cl. 315—39.
Eames, Charles, to Herman Miller, Inc. Demountable furniture web construction. 3,024,068, 3–6–62, Cl. 297—455.
Eames, Charles, and P. P. Price; said Price assor. to Herman Miller, Inc. Tensioned web furniture construction. 3,027,-210, 3–27–62, Cl. 312—6.
Eames, Charles, and D. Albinson, to Herman Miller, Inc. Web and spreader furniture construction. 3,041,109, 6–26–62, Cl. 297—440.
Eames, Charles, and D. Albinson, to Herman Miller, Inc. Storage. 3,042,978, 7–10–62, Cl. 20—1.11.
Eames, Charles, D. Albinson, and P. J. Pearce, to Herman Miller, Inc. Wall mounted vertically adjustable desk. 3,043,640, 7–10–62, Cl. 311—20.
Eames, Charles, D. Albinson, and P. J. Pearce, to Herman Miller, Inc. Bed. 3,046,572, 7–31–62, Cl. 5—136.
Eames, James O.: *See*—
Sanford, Roy S., and Eames. 3,055,458.
Eames, James O., to R. S. Sanford, W. A. Eaton, E. D. Sedergren, R. H. Casler, and J. O. Eames. Liquid-cooled frictional mechanism. 3,040,845, 6–26–62, Cl. 188—264.
Eannarino, George, to Sarkes Tarzian, Inc. Diode. 3,047,781, 7–31–62, Cl. 317—234.
Eardley, Stephen: *See*—
Long, Alan G., Eardley, and Green. 3,060,199.
Earhart, Harold W., and W. G. De Pierri, Jr., to Esso Research and Engineering Co. $\alpha^1,\alpha^2,\alpha^5$-trihydroxyhexamethylbenzene. 3,022,355, 2–20–62, Cl. 260—618.
Earhart, Harold W., and W. G. De Pierri, Jr., to Esso Research and Engineering Co. Preparation of bis-hydroxymethyl-durene. 3,030,427, 4–17–62, Cl. 260—618.
Earhart, Harold W., and D. E. Nicholson, to Esso Research and Engineering Co. Process for obtaining durene. 3,031,513, 4–24–62, Cl. 260—668.
Earl, Robert P., to Baxter Laboratories, Inc. Blood component separation method and apparatus. 3,064,647, 11–20–62, Cl. 128—214.
Earl, Thomas D.: *See*—
Dubbury, John, Frost, and Earl. 3,065,935.
Frost, John C. M., and Earl. 3,018,068.
Frost, John C. M., and Earl. 3,022,963.
Earle, Richard W. Snugger bolt. 3,047,320, 7–31–62, Cl. 292—203.
Earley, David K. Edging attachment for rotary type lawn mower. 3,053,035, 9–11–62, Cl. 56—256.
Earley, Wilbur F.: *See*—
Guntert, Ronald M., Earley, and Noack. 3,064,217.
Earlougher, Robert C., to The Dow Chemical Co. Treatment of fluid-producing formations. 3,021,901, 2–20–62, Cl. 166—42.
Earls, David E., and G. F. Morris, to General Dynamics Corp. Trigger threshold toggle for triggered type multivibrators. 3,066,262, 11–27–62, Cl. 328—196.
Early, Harold C., and W. A. Dutton, to Meredith Publishing Co. Electrospark means for perforating webs. 3,027,791, 4–3–62, Cl. 83—177.
Early, James R., and H. W. Morgan, to Campbell Soup Co. Method of making can bodies and apparatus therefor. 3,069,530, 12–18–62, Cl. 219—64.
Early, Paul F., and B. Smilg, to Globe Industries, Inc. Connecting member. 3,042,033, 7–3–62, Cl. 128—142.
Early, Rex G., and E. J. De Ridder, to Reynolds Metals Co. Fork liftable pallet. 3,029,052, 4–10–62, Cl. 248—120.
Early, Richard L., and T. B. Sorbie, to Owens-Illinois Glass Co. Electric control system. 3,025,447, 3–13–62, Cl. 318—480.
Early, Richard L., A. G. Lauck, L. Pigg, and T. B. Sorbie, to Owens-Illinois Glass Co. Control system for interconnected electric motors. 3,030,564, 4–17–62, Cl. 318—45.
Early, Richard L., and T. B. Sorbie, to Owens-Illinois Glass Co. Electronic apparatus for computing areas. 3,059,523, 10–23–62, Cl. 88—14.
Earth Equipment Corp.: *See*—
Bradley, William J. 3,022,585.
Eary, Robert H. Glass scoring machine. 3,058,220, 10–16–62, Cl. 33—32.
Eash, Charles D.: *See*—
Volk, Victor F., Eash, and Olson. 3,052,751.
Easley, Gilbert R., R. E. Kane, and J. E. Schrameck, to Westinghouse Electric Corp. Compressed-gas circuit interrupters. 3,040,149, 6–19–62, Cl. 200—148.
Easley, Gerald J. Safety brakes for hoist lines. 3,016,113, 1–9–62, Cl. 188—189.
Easley, John A., and M. H. Fishaber, to The Dow Chemical Co. Powderless etching bath and method of etching plates therewith. 3,023,138, 2–27–62, Cl. 156—14.
East, William J., to United States of America, Army. Electronic circuit tester. 3,046,482, 7–24–62, Cl. 324—72.5.
Easter, John W., and P. J. Higham, to Henry Simon Ltd. Box-making machines. 3,059,552, 10–23–62, Cl. 93—58.2.
Easterbrooks, Harold L.: *See*—
Albondi, Frank B., Hagan, and Easterbrooks. 3,023,143.
Easterling, James M., to General Motors Corp. Windshield wiper blade. 3,031,709, 5–1–62, Cl. 15—250.42.
Easterling, Mahlon L., to Schlumberger Well Surveying Corp. Apparatus for investigating earth formations. 3,031,612. 4–24–62, Cl. 324—1.
Eastern Co.: *See*—
Danforth, Richard S. 3,030,906.
Danforth, Richard S. 3,059,339.
Dickow, Frederick P. 3,031,694.
Dickow, Frederick P. 3,054,320.
Gordon, William J., and Marden. 3,055,335.
Ogg, Robert D. 3,024,756.
Pelcin, Albert L. 3,044,814.
Pelcin, Albert L. 3,055,204.
Eastern Fabricating Co., Inc.: *See*—
McClive, Ralph T. 3,063,613.
Eastern Malleable Iron Co., The: *See*—
Pelcin, Albert L. 3,044,287.
Eastern Oil Well Survey Co.: *See*—
Eastman, Harlan J. 3,052,309.
Eastern Power Devices Ltd.: *See*—
Turgeon, Joseph A. 3,067,300.
Eastern Research Corp.: *See*—
Feldman, Charles S. 3,023,652.
Rachlin, Philip. 3,055,031.
Rachlin, Philip. 3,058,136.
Eastern Rotorcraft Corp.: *See*—
Campbell, Harris S. 3,028,188.
Campbell, Harris S. 3,032,365.
Campbell, Harris S. 3,046,045.
Campbell, Harris S. 3,068,034.
Huber, John R. 3,063,569.
Eastern Steel Rack Co.: *See*—
Shivek, Herbert L. 3,021,013.
Eastham, John F.: *See*—
Williams, Frederic C., Laithwaite, and Eastham. 3,040,-226.
Eastin, William C.: *See*—
Bucher, Lawrence E., Hug, and Eastin. 3,028,992.
Eastman, David P.: *See*—
Williams, Alfred L. W., and Eastman. 3,039,007.
Eastman, Du Bois: *See*—
Schlinger, Warren G., and Eastman. 3,044,951.
Eastman, Du Bois, to Texaco Inc. Calcium carbide process. 3,017,259, 1–16–62, Cl. 48—216.
Eastman, Du Bois, to Texaco Inc. Process for reduction of iron ore. 3,022,156, 2–20–62, Cl. 75—26.
Eastman, Du Bois, to Texaco Inc. Production of heating gas. 3,025,149, 3–13–62, Cl. 48—197.
Eastman, Du Bois, to Texaco Inc. Method of forming gas tight seal between vessel wall and refractory lining of a synthesis gas generator. 3,048,481, 8–7–62, Cl. 48—206.
Eastman, Du Bois, and W. G. Schlinger, to Texaco Inc. Treatment of hydrocarbons. 3,017,345, 1–16–62, Cl. 208—210.
Eastman, Du Bois, and W. G. Schlinger, to Texaco Inc. Recovery of oil from tar sands. 3,044,948, 7–17–62, Cl. 208—11.
Eastman, Du Bois, R. M. Dille, W. V. Taylor, F. C. Toetteher, and T. B. Jordan, to Texaco Inc. Carbon black thickened greases. 3,048,540, 8–7–62, Cl. 252—29.
Eastman, Du Bois, R. M. Dille, and R. W. Chapman, to Texaco Inc. Synthesis gas generation with recovery of naturally occuring metal values. 3,069,251, 12–18–62, Cl. 48—215.
Eastman, Harlan J., to Eastern Oil Well Survey Co. Apparatus for orienting well drilling equipment. 3,052,309, 9–4–62, Cl. 175—45.
Eastman, Harold. Shelf with supporting pins. 3,033,376, 5–8–62, Cl. 211—90.
Eastman, James M., to The Bendix Corp. Fuel feed and power control for gas turbine engines. 3,034,569, 5–15–62, Cl. 158—36.

Eastman, John E.: *See*—
Tenney, William L., and Eastman. 3,023,564.
Eastman Kodak Co.: *See*—
Abbott, Thomas I., and Yackel. 3,033,677.
Addleburg, John W., Lappin, and Rouse. 3,043,797.
Akin, George A. 3,016,985.
Albert, Donald J., and Forman. 3,062,268.
Allen, Charles F. H., Talbot, Yudelson, and Smith. 3,047,-394.
Allen, Frank D., Herz, and Kalenda. 3,062,654.
Altman, Fred E., and Von Halla. 3,057,260.
Ames, Stanley R. 3,026,249.
Angenieux, Pierre. 3,057,279.
Babcock, David L., and Martin. 3,062,119.
Bagdon, Stanley W., and Critchell. 3,029,952.
Barr, Charles R., Henn, and Salminen. 3,043,694.
Beavers, Dorothy J. 3,039,873.
Beavers, Dorothy J. 3,046,135.
Beguin, Albert E. 3,062,181.
Bell, Alan, Knowles, and Tholstrup. 3,038,878.
Blood, Alden E., Hull, and Hagemeyer. 3,062,872.
Bloom, Roy C., and Pomeroy. 3,062,643.
Bowler, Valentine M. 3,017,133.
Brogan, Thomas F., and Klem. 3,053,140.
Brooks, Alfred E. 3,065,098.
Brown, Morris E. 3,044,384.
Brown, Morris E., and Martin. 3,043,181.
Brown, Thomas P. 3,062,096.
Bundschuh, John J., Craig, and Hochreiter. 3,016,811.
Bundschuh, John J., and Quick. 3,025,776.
Burness, Donald M., Kennard, and Cossar. 3,061,437.
Caldwell, John R. 3,026,276.
Caldwell, John R. 3,033,848.
Caldwell, John R. 3,041,297.
Caldwell, John R. 3,043,806.
Caldwell, John R., and Coover. 3,026,293.
Caldwell, John R., and Gilkey. 3,053,805.
Caldwell, John R., Jackson, and Hill. 3,038,887.
Caldwell, John R., and Martin. 3,017,388.
Caldwell, John R., and Martin. 3,053,804.
Caldwell, John R., and Tamblyn. 3,068,112.
Carnall, Edward, Jr., Ladd, Cary, and Parsons. 3,033,-693.
Carroll, Burt H. 3,062,645.
Carter, William D. 3,046,606.
Chiesa, Peter P., Dann, and Gates. 3,068,102.
Clark, Raymond D. 3,062,837.
Cobb, Phara L., Jr. 3,025,861.
Cooperstein, Raymond. 3,030,236.
Coover, Harry W., Jr. 3,026,289.
Coover, Harry W., Jr. 3,041,309.
Coover, Harry W., Jr. 3,038,892.
Coover, Harry W., Jr. 3,057,835.
Coover, Harry W., Jr. 3,070,558.
Coover, Harry W., Jr., and Joyner. 3,026,311.
Coover, Harry W., Jr., and Kennedy. 3,067,686.
Coover, Harry W., Jr., and McCall. 3,043,821.
Coover, Harry W., Jr., and McConnell. 3,053,795.
Coover, Harry W., Jr., and McConnell. 3,053,852.
Coover, Harry W., Jr., and Shearer. 3,058,969.
Coover, Harry W., Jr., and Shields. 3,062,900.
Coover, Harry W., Jr., and Wooten. 3,058,949.
Cowden, Herbert B., and Weisler. 3,057,721.
Crane, Carlton L. 3,047,561.
Crane, Carlton L. 3,057,853.
Crawford, Irvin H. 3,062,648.
Crawford, Robert T., and Stevens. 3,017,309.
Cross, Anthony S. 3,017,618.
Czerkas, Alfred E. 3,032,817.
Dann, John R., and Chechak. 3,046,134.
Dann, John R., Chiesa, and Lovett. 3,038,805.
Dann, John R., and Gates. 3,062,646.
Derlaud, Jean-Pierre. 3,021,230.
Dunn, Joseph S., and Bennett. 3,017,296.
Eagle, John H., and Brayer. 3,053,711.
Egan, John F., and Block. 3,038,437.
Elam, Edward U., Hasek, and Martin. 3,017,395.
Ernisse, Paul J., and Hatton. 3,033,092.
Estes, Cameron B. 3,023,655.
Finch, Gaylord K. 3,057,911.
Fitzgerald, Charles S., and Anderson. 3,043,184.
Foster, Lloyd P., and Wilson. 3,026,262.
Fournier, Jane O., and Reynolds. 3,043,880.
Freer, Lester P. 3,021,085.
Gallagher, Paul. 3,050,430.
Gentile, Ralph, and Klauss. 3,057,516.
Gledhill, Ronald J., and Williams. 3,034,892.
Gnage, Oliver W., and Pollock. 3,017,132.
Goddard, Murray C., and Hubol. 3,029,691.
Goodchild, Denis J., and Knowles. 3,053,657.
Graham, James L. 3,058,827.
Graham, James L., and Sagal. 3,046,129.
Grammer, Reynold A., Jr., and Modney. 3,053,985.
Gray, Glen G., and Leone. 3,015,537.
Guillet, James E., Combs, and Tholstrup. 3,057,810.
Hagemeyer, Hugh J., Jr. 3,043,808.
Hagemeyer, Hugh J., Jr., and Edwards. 3,067,183.
Hagemeyer, Hugh J., Jr., Park, and Edwards. 3,026,312.
Haist, Grant M., and King. 3,041,170.
Hammar, Gustaf W., and Bennett. 3,063,862.
Harrington, Robert C., Jr., and Smith. 3,038,877.
Harris, Raymond C., and Newland. 3,031,321.
Eastman Kodak Co.: *See*—Continued
Harvey, James E., and Michatek. 3,046,833.
Henn, Richard W., and Goffe. 3,030,209.
Herdle, Lloyd E., and Milligan. 3,062,679.
Herz, Arthur H. 3,062,647.
Herz, Arthur H., and Allen. 3,047,393.
Herz, Arthur H., and Kalenda. 3,043,696.
Herz, Arthur H., and Kalenda. 3,057,725.
Hillson, Peter J. 3,062,651.
Hodges, Howard T. 3,043,091.
Houck, Robert C., Smith, and Yudelson. 3,062,674.
Hunter, Walker F., Jr., and Osmalov. 3,038,209.
Jeffreys, Roy A., and Tabor. 3,034,894.
Jeffreys, Roy A., and Tabor. 3,057,723.
Jeffreys, Roy A., Tabor, and Burness. 3,062,652.
Johnson, Robert B. 3,062,924.
Jones, Jean E., and Stewart. 3,047,384.
Jungjohann, Vernon H. 3,025,760.
Keen, James H. 3,062,611.
Keith, Garland B. 3,062,082.
Kibler, Charles J., Bell, and Smith. 3,033,822.
Kibler, Charles J., Bell, and Smith. 3,033,826.
Kibler, Charles J., Bell, and Smith. 3,033,827.
Kibler, Charles J., Bell, and Smith. 3,049,506.
Kiefer, John E. 3,057,852.
Kiefer, John E., and Touey. 3,033,698.
Kiefer, John E., and Touey. 3,038,780.
Kiefer, John E., and Touey. 3,068,063.
Kindig, Guilford R., and Dudley. 3,057,573.
King, James R., and Haist. 3,033,765.
King, Nancy H. 3,021,212.
Kirk, Robert A. 3,021,771.
Kirn, Thomas G. 3,062,399.
Klauss, Ralph E., and Sigl. 3,067,848.
Knott, Edward F. 3,033,681.
Knox, William J., Jr., and Wilson. 3,038,804.
Knox, William J., Jr., and Wright. 3,026,202.
Knox, William J., Jr., and Wright. 3,068,101.
Kuhrt, Noel H., and Broxholm. 3,034,897.
Kuhrt, Noel H., and Broxholm. 3,034,898.
Kuhrt, Noel H., and Swicklik. 3,068,103.
Kunz, Charles J. 3,067,919.
Laakso, Thomas M., and Buckley. 3,038,874.
Laakso, Thomas M., and Buckley. 3,038,879.
Laakso, Thomas M., and Fleisher. 3,039,870.
Laakso, Thomas M., and Garber. 3,033,679.
Laakso, Thomas M., and Petropoulos. 3,038,880.
Laakso, Thomas M., and Williams. 3,062,785.
Laakso, Thomas M., and Williams. 3,068,215.
Lake, Alvin E., Jr., and Yeaton. 3,026,415.
Lang, Vincent F. 3,053,599.
Lappin, Gerald R. 3,017,383.
Lareau, Norman N., and Olson. 3,051,066.
Le, Paul L., and Sims. 3,069,477.
Lee, Charles M. 3,035,503.
Lee, Charles M., Guentner, and Nerwin. 3,027,818.
Linge, John W. 3,043,687.
Lovett, William G., Chiesa, and Dann. 3,057,724.
Lovick, Robert C. 3,062,681.
Luboshez, Benjamin E. 3,057,282.
Luckey, George W., and West. 3,038,800.
MacClaren, Robert, and Wells. 3,068,141.
Mader, Paul M., Nelson, and Crevling. 3,016,306.
Maksymiak, John, and Pollock. 3,021,041.
Malm, Carl J., and Gandy. 3,057,755.
Malm, Carl J., and Gandy. 3,068,116.
Malm, Carl J., Herz, and Gandy. 3,047,391.
Martin, James C. 3,062,836.
Martin, James C., and Brannock. 3,043,791.
Martin, James C., and Brannock. 3,053,679.
Martin, James C., and Brannock. 3,062,852.
Martin, James C., and Elam. 3,038,884.
Martin, William A. 3,062,102.
McAdam, Ralph E., Letzer, and Pollock. 3,025,758.
McCall, Marvin A. 3,068,273.
McCall, Marvin A. 3,068,274.
McConnell, Richard L., and Coover. 3,030,340.
McConnell, Richard L., and Coover. 3,041,350.
McConnell, Richard L., and Coover. 3,057,773.
McConnell, Richard L., and Coover. 3,062,788.
McConnell, Richard L., and Coover. 3,062,792.
McConnell, Wayne V., and Davis. 3,038,907.
Mench, John W., Emerson, and Rowley. 3,022,287.
Miles, Clifford L. 3,057,249.
Miller, Frank D., and Adler. 3,017,289.
Miller, Walter C., and Schmitt. 3,033,072.
Miller, Walter C., and Schmitt. 3,062,117.
Milton, Kirby M., and Spangler. 3,033,680.
Minsk, Louis M. 3,046,132.
Minsk, Louis M. 3,046,133.
Minsk, Louis M., and Cohen. 3,048,487.
Morgan, John V. 3,026,218.
Murphy, Cornelius J., Jr., and Wood. 3,021,214.
Nagel, Helmut A. 3,038,270.
Nerwin, Hubert. 3,046,860.
Nerwin, Hubert, and Eagle. 3,054,337.
O'Neill, William O. 3,053,779.
Patton, Thomas O., and Smith. 3,067,463.
Perry, Edmond S., and Zuehlke. 3,068,204.
Pickering, Royce D., and Belt. 3,033,980.
Pieronek, Valentine R., and Fritsche. 3,030,004.
Piper, Douglas E. 3,017,271.
Pollard, Graham H., and Doherty. 3,033,258.

Eastman Kodak Co.: *See*—Continued
Price, William H. 3,029,700.
Reedy, Albert J., and Cawley. 3,068,292.
Reesen, Jorgen. 3,067,646.
Reiss, Max. 3,046,838.
Reithel, Raymond F. 3,053,179.
Reithel, Raymond F. 3,057,788.
Robeson, Charles D. 3,033,897.
Robinson, Herbert T., and Di Pietro. 3,033,078.
Rodgers, John A., and Taylor. 3,025,753.
Roman, Robert J. 3,029,992.
Roman, Robert J. 3,062,063.
Russell, Harold D., and Kunz. 3,025,779.
Sagura, John J. 3,057,787.
Sagura, John J., and Van Allan. 3,062,650.
Salminen, Wilho M., and Weyerts. 3,062,649.
Schrader, Robert J. 3,030,322.
Schwan, Judith A., and Chiesa. 3,068,097.
Shearer, Newton H., Jr., and Coover. 3,018,278.
Shearer, Newton H., Jr., and Coover. 3,026,310.
Smith, James G. 3,068,205.
Smith, James L., and Harrington. 3,034,957.
Smith, John W. 3,016,581.
Smith, John W. 3,045,884.
Starck, Clemens B., Smith, and Hellmann. 3,053,661.
Staudt, Erwin, and Harter. 3,033,089.
Steisslinger, Kurt. 3,046,858.
Steisslinger, Kurt. 3,062,113.
Stimson, Allen G. 3,023,684.
Stimson, Allen G., and Eagle. 3,033,094.
Stimson, Allen G., Eagle, Ferry, and Border. 3,033,093.
Straley, James M., and Harris. 3,043,827.
Sugarman, Meyer L., Jr., Bennett, and Hammar. 3,063,-861.
Swing, Charles E. 3,026,108.
Taylor, Clarence R., and Wilson. 3,020,837.
Taylor, Clarence R., and Wilson. 3,062,135.
Thiebaut, Roger P. J. G., and Etienne. 3,043,799.
Tholstrup, Clarence E. 3,033,814.
Tholstrup, Clarence E., and Bell. 3,016,363.
Thompson, John W., and Ownby. 3,033,662.
Touey, George P. 3,021,242.
Touey, George P. 3,033,209.
Touey, George P. 3,043,736.
Touey, George P. 3,053,677.
Touey, George P., and Brown. 3,053,696.
Touey, George P., and Davis. 3,030,356.
Touey, George P., and Davis. 3,057,743.
Touey, George P., and Davis. 3,068,220.
Touey, George P., and Goins. 3,053,884.
Touey, George P., and Kiefer. 3,033,212.
Touey, George P., and Mumpower. 3,026,226.
Touey, George P., and Mumpower. 3,038,478.
Tregillus, Leonard W., and Rasch. 3,017,270.
Weissberger, Arnold, Loria, and Salminen. 3,062,653.
Wemple, Richard E. 3,047,435.
Wexler, Vernon K. 3,016,945.
Weyerts, Walter J., and Barnes. 3,043,688.
Williams, Jack L. R., and Cossar. 3,021,215.
Williams, Leslie A. 3,068,098.
Wilson, Charles V., and Knox. 3,041,171.
Wilson, Charles V., and Knox. 3,041,326.
Wilson, Earl W., and Hutchins. 3,055,869.
Wilson, William C. 3,038,322.
Wittel, Otto. 3,053,142.
Wittel, Otto, and Estes. 3,024,715.
Wittel, Otto, and Salzer. 3,016,620.
Wooten, Willis C., Jr., and Grossman. 3,063,963.
Wozniak, Raymond L. 3,033,701.
Yackel, Edward C., Yutzy, Foster, and Rasch. 3,020,155.
Yudelson, Joseph. 3,017,280.
Eastman Machine Co.: *See*—
Ulrich, Lester J. 3,036,548.
Eastman Oil Well Survey Co.: *See*—
Anderson, George L. 3,055,743.
Frisby, Thomas M. 3,059,707.
Frisby, Thomas M., and Cook. 3,068,946.
Eastman, Warren O., to General Electric Co. Curable polyethylene containing basic lead carbonate and a peroxide curing agent. 3,039,989, 6–19–62, Cl. 260—41.
Easton, Edward A., to Aerojet-General Corp. Igniter for solid propellants. 3,044,399, 7–17–62, Cl. 102—70.
Easton, Franklin B. Articulated self-steering tandem air suspension gear for trailers and the like. 3,047,306, 7–31–62, Cl. 280—81.
Easton, Irving D., and J. E. O'Neil, to Lily-Tulip Cup Corp. Cup dispenser. 3,069,048, 12–18–62, Cl. 221—45.
Easton, Nelson R., and E. C. Kornfeld, to Eli Lilly and Co. Method for controlling hypertension. 3,067,101, 12–4–62, Cl. 167—65.
Easton, Rufus: *See*—
Haussner, Theodor H. W., and Easton. 3,040,397.
East Rutherford Syringes, Inc.: *See*—
Krueger, Nicholas. 3,048,172.
Eastwood, George G. M.: *See*—
Gade, Marvin F., and Eastwood. 3,016,622.
Eastwood, Sylvander C., to Socony Mobil Oil Co., Inc. Apparatus for catalytically treating internal combustion engine exhaust gases. 3,050,935, 8–28–62, Cl. 60—31.
Eastwood, Sylvander C., S. M. Oleck, and S. J. Fantuck, to Socony Mobil Oil Co., Inc. Catalytic reforming with platinum on a silica-zirconia base. 3,068,169, 12–11–62, Cl. 208—134.
Easy, Maurice H., and A. B. Schneider, to The Decca Record Co. Ltd. Radar apparatus. 3,025,513, 3–13–62, Cl. 343—5.
Easybow Engineering & Research Co.: *See*—
Findleton, Ronald J. 3,036,347.
Eaton Axles Ltd.: *See*—
Chambers, Harry D. 3,049,362.
Eaton, Clare N. Ventilated boot. 3,029,530, 4–17–62, Cl. 36—3.
Eaton, Ernest E., to Clark Equipment Co. Shift lever mechanism. 3,031,898, 5–1–62, Cl. 74—473.
Eaton, James C.: *See*—
Magill, Donald G., Jr., and Eaton. 3,057,772.
Eaton, Lyle E., to Le Tourneau-Westinghouse Co. Hydraulic dumping mechanism for dump truck. 3,039,823, 6–19–62, Cl. 298—22.
Eaton Mfg. Co.: *See*—
Acker, George H. 3,064,759.
Andrade, Roger C. 3,061,228.
Brown, Robert G. 3,025,732.
Browne, Robert J. 3,025,802.
Christie, Chester D. Re. 25,269.
Coldren, Chester P. 3,016,941.
Coldren, Chester P. 3,058,596.
Derks, Richard J. 3,070,410.
Deska, Theodore J., and Harvey. 3,016,834.
Frischman, Thomas A. 3,024,626.
Hansen, Quinten A. 3,069,929.
Jaeschke, Ralph L. 3,016,580.
Jaeschke, Ralph L. 3,036,680.
Jaeschke, Ralph L. 3,047,754.
Jaeschke, Ralph L. 3,063,532.
Jaeschke, Ralph L. 3,069,576.
Jaeschke, Ralph L., and Derks. 3,030,529.
La Vallee, Theodore R. 3,017,527.
McNamara, Thomas V. 3,059,743.
Nestic, John M. 3,027,043.
Oldberg, Sidney, and Roper. 3,055,473.
Pipes, George R. 3,022,670.
Russell, Robert C. 3,022,064.
Russell, Robert C. 3,052,137.
Williams, Richard J. 3,015,238.
Eaton, Robert F., to Radio Corp. of America. Cabinet structure for small radio receivers and the like. 3,017,504, 1–16–62, Cl. 250—16.
Eaton, Roland D., to Fairchild Camera and Instrument Corp. Cathode ray tube. 3,037,136, 5–29–62, Cl. 313—92.
Eaton Stamping Co.: *See*—
Hamman, Lyle J. 3,024,780.
Eaton, Wilfred A.: *See*—
Eames, James O. 3,040,845.
Sanford, Roy S., and Eames. 3,055,458.
Eaves, James J., to Taylor Machine Works. Tripping device. 3,039,809, 6–19–62, Cl. 294—76.
Eaves, James J., to Taylor Machine Works. Sling tripping device. 3,050,328, 8–21–62, Cl. 294—75.
Eaves, William C. Splash guard. 3,027,178, 3–27–62, Cl. 280—154.5.
Ebauches-Fabrik, ETA A.G.: *See*—
Stamm, Heinrich. 3,030,764.
Ebauches S.A.: *See*—
Beyner, André. 3,028,511.
Beyner, André, and Besson. 3,052,082.
Beyner, Andre, Meister, and Hug. 3,056,253.
Haidegger, Hans. 3,033,337.
Haidegger, Hans. 3,061,081.
Meyer, Friedrich. 3,040,513.
Schneiter, Alf. 3,059,500.
Vogt, Paul. 3,030,795.
Ebbert, Robert J.: *See*—
Wallace, Richard B., and Ebbert. 3,020,570.
Ebbinge, Willem, to North American Philips Co., Inc. Transistorized receiving circuit arrangement. 3,061,792, 10–30–62, Cl. 330—21.
Ebbinghaus, Edgar, to Hartmann & Braun Aktiengesellschaft. Gas analyser. 3,045,474, 7–24–62. Cl. 73—27.
Ebbinghaus, Kurt, and H. Krieger, to North American Philips Co., Inc. Electromagnetic measuring coil. 3,041,483, 6–26–62, Cl. 310—15.
Ebco Mfg. Co., The: *See*—
Benua, Louis P., and Taylor. 3,060,703.
Ebdon, Eric, to Power Jets (Research and Development) Ltd. Flying control system for aircraft. 3,070,334, 12–25–62, Cl. 244—90.
Ebel, Lawrence C., to Anaconda Wire and Cable Co. Apparatus for impregnating cables. 3,054,382, 9–18–62, Cl. 118—423.
Ebeling, Norbert. Spear gun. 3,016,891, 1–16–62, Cl. 124—22.
Eberhard, John F., to The Dow Chemical Co. Well fracturing liquid. 3,022,249, 2–20–62, Cl. 252—8.55.
Eberhard, John F., and B. D. Oakes, to The Dow Chemical Co. Corrosion inhibition. 3,037,934, 6–5–62, Cl. 252—136.
Eberhardt, Edward H., to International Telephone and Telegraph Corp. Heat imaging device. 3,054,917, 9–18–62, Cl. 313—65.
Eberhardt, Edward H., to International Telephone and Telegraph Corp. Bolometers. 3,069,644, 12–18–62, Cl. 338—19.
Eberhardt, Elwood L. Studding marker for frame buildings. 3,063,370, 11–13–62, Cl. 101—329.

Eberhardt Gebruder : *See*—
Balkheimer, Richard E. 3,044,194.
Eberhardt, Gert G. : *See*—
Johnson, Herbert L., and Eberhardt. 3,035,077.
Eberhardt, Gert G., to Sun Oil Co. Side chain alkylation of substituted aromatic hydrocarbons. 3,065,282, 11–20–62, Cl. 260—671.
Eberhardt, Joseph : *See*—
Litwin, Walter J., and Eberhardt. 3,049,771.
Eberhardt, Joseph. Injecting moulding apparatus. 3,049,769, 8–21–62, Cl. 18—42.
Eberhardt, Lee E. : *See*—
Horstman, Anton J., and Eberhardt. 3,016,088.
Eberhardt, Lee E., to The Bauer Bros. Co. Pulp bleaching. 3,052,592, 9–4–62, Cl. 162—17.
Eberhardt, Lee E., to The Bauer Brothers Co. Handling of paper pulp. 3,055,795, 9–25–62, Cl. 162—100.
Eberhardt, Lee E., to The Bauer Brothers Co. Bark processing. 3,064,592, 11–20–62, Cl. 110—7.
Eberhart, Arthur H., to Westinghouse Electric Corp. Air distributing device. 3,063,357, 11–13–62, Cl. 98—40.
Eberhart, Clem W. : *See*—
Husby, Donald E., Eberhart, and Izzi. 3,065,338.
Eberhart, Gerald W., to The Electric Storage Battery Co. Goggles. 3,042,928, 7–10–62, Cl. 2—14.
Eberl, James J., and S. Coppick, to Scott Paper Co. Process of improving the physical characteristics of an amine-formaldehyde foam by compression and product produced therefrom. 3,063,953, 11–13–62, Cl. 260—2.5.
Eberle, Edward E., to Sperry Rand Corp. Signal decrement detector. 3,021,452, 2–13–62, Cl. 317—9.
Eberle, Jack F. : *See*—
Passley, Paul L., and Eberle. 3,022,541.
Eberle, Jack F., to Phillips Petroleum Co. Solid rocket propellants. 3,022,735, 2–27–62, Cl. 102—98.
Eberle, James W. : *See*—
Rankin, Andrew W., and Eberle. 3,021,110.
Eberle, Julian J. Ink pump cleaning device. 3,025,863, 3–20–62, Cl. 134—101.
Eberle, Walter : *See*—
Porsche, Ferdinand, Rabe, and Eberle. 3,049,930.
Eberman, Carl B., and K. S. Sundstedt, to Sandvikens Jernverks Aktiebolag. Extraction sleeve for drill rods. 3,029,-069, 4–10–62, Cl. 294—102.
Ebersbach, Hans-Walter, and J. Heckmaier, to Wacker-Chemie G.m.b.H. Process for the production of copolymers of vinyl chloride and fumaric acid esters. 3,027,358, 3–27–62, Cl. 260—78.5.
Ebersberger, Josef, H. Holtschmidt, and R. Stroh, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of disulphides and polysulphides containing hydroxyl groups. 3,064,056, 11–13–62, Cl. 260—608.
Ebert & Co. Inc. : *See*—
Ebert, Henry. 3,018,616.
Ebert, Edward A. Fish lure display and test tank. 3,028,-688, 4–10–62, Cl. 35—49.
Ebert Electronics Corp. : *See*—
Mitchell, Irving L. 3,027,437.
Ebert, Hans, F. Ritter, E. Harmsen, and K. Grapentin, to Knapsack-Griesheim Aktiengesellschaft. Process and apparatus for the manufacture of anhydrous magnesium chloride which is substantially free from magnesium oxide. 3,067,006, 12–4–62, Cl. 23—91.
Ebert, Heinrich. Hydrostatic axial piston fluid transmission. 3,052,098, 9–4–62, Cl. 60—53.
Ebert, Henry : to Ebert & Co. Inc. Expansible linkage with removable links and means to prevent inadvertent separation of the latter. 3,018,616, 1–30–62, Cl. 59—79.
Ebertin, Georges. Jewelry clip having removable leaf spring. 3,037,367, 6–5–62, Cl. 63—20.
Eberwine, Paul D. Splash flap for vehicle fenders. 3,057,-643, 10–9–62, Cl. 280—154.5.
Ebetino, Frank F., to The Norwich Pharmacal Co. New 1-acyl-1-(2-cyano-ethyl)-2-(5-nitrofurfurylidene) hydrazines and the preparation thereof. 3,043,853, 7–10–62, Cl. 260—347.3.
Ebigt, Joachim : *See*—
Koch, Heinrich, and Ebigt. 3,036,977.
Ebihara, Keikichi, and K. Ogawa. Thread take-up mechanism for a sewing machine. 3,025,810, 3–20–62, Cl. 112—241.
Eble, Thomas E. : *See*—
Bergy, Malcolm E., De Boer, Dietz, Eble, Herr, and Johnson. 3,027,300.
De Boer, Clarence, Eble, and Large. 3,022,220.
Eble, Thomas E., and C. Lewis, to The Upjohn Co. 6-amino-9-D-psicofuranosylpurine. 3,020,274, 2–6–62, Cl. 260—211.5.
Ebner, Karl, to Metallgesellschaft Aktiengesellschaft. Method of preparing potassium sulfate from kainite. 3,058,806, 10–16–62, Cl. 23—121.
Ebner, Lewis J. Hay bale conveyor. 3,047,126, 7–31–62, Cl. 198—68.
Ebner, Walter P., ½ to E. L. Spangler and M. L. Wymore. Contact lens carrying case. 3,056,998, 10–9–62, Cl. 15—512.
Ebneth, Harold, ½ to Farbenfabriken Bayer Aktiengesellschaft and ½ to Mobay Chemical Co. Method of molding open pore isocyanate foam. 3,016,575, 1–16–62, Cl. 18—48.
Ebnöther, Anton : *See*—
Jucker, Ernst, and Ebnöther. 3,032,556.
Jucker, Ernst, Ebnöther, Rissi, Vogel, and Steiner. 3,036,065.
Eburn, William H., Jr., and O. E. Wolff, to Polaroid Corp. Photographic apparatus. 3,062,115, 11–6–62, Cl. 95—13.
Eby, Florence O. Anchoring devices. 3,046,984, 7–31–62, Cl. 128—214.
Eby, John H., Jr., to International Harvester Co. Tuned intake manifold. 3,024,774, 3–13–62, Cl. 123—52.
Eby, Lawrence T. : *See*—
Mercier, Philip L., and Eby. 3,056,759.
Eccles, George O. : *See*—
Kent, Nelson H., and Eccles. 3,039,178.
Kent, Nelson H., and Eccles. 3,044,153.
Eccles, Robert O., to Chrysler Corp. Method and apparatus for shaping banded plastic sheeting. 3,038,206, 6–12–62, Cl. 18—47.5.
Eccleston, Russell R. : *See*—
Edgerly, Gerald O., and Eccleston. 3,030,252.
Echikson, Elchanan, to Red Devil Tools. Tool having a hand grip construction. 3,018,497, 1–30–62, Cl. 15—143.
Eck, Bruno. Drum rotor for radial blower. 3,070,287, 12–25–62, Cl. 230—134.
Eck, Bruno C. Radial blower for gases with high dust content. 3,019,963, 2–6–62, Cl. 230—127.
Eck, John W., and R. R. Sucietto, to National Distillers and Chemical Corp. Stability of whiskey. 3,046,138, 7–24–62, Cl. 99—48.
Eck, Robert A., and N. Silver, to N. Silver. Socket for an electric lamp. 3,049,599, 8–14–62, Cl. 200—51.17.
Eck, Robert C., to United States of America, Navy. Depth control system. 3,045,627, 7–24–62, Cl. 114—25.
Eck, Robert N. : *See*—
Byrnes, Richard J., Eck, Robbins, and Sadowski. 3,058,-567.
Eckardt, William C. and W. W. Ball floating reamer. 3,067,638, 12–11–62, Cl. 77—72.
Eckardt, William W. : *See*—
Eckardt, William C. and W. W. 3,067,638.
Eckart, Josef : *See*—
Deiss, Martin, Eckart, and Heckmaier. 3,025,565.
Ecke, George G., and A. J. Kolka, to Ethyl Corp. Jet fuel compositions. 3,019,097, 1–30–62, Cl. 44—78.
Ecke, George G., and A. J. Kolka, to Ethyl Corp. Substituted catechol antioxidants. 3,043,672, 7–10–62, Cl. 44—69.
Eckel, John E., and E. H. Lock, to Jersey Production Research Co. Vibratory drilling. 3,016,098, 1–9–62, Cl. 175—56.
Eckel, John E., and J. M. Camp, to Jersey Production Research Co. Retractable turbine drill. 3,036,646, 5–29–62, Cl. 175—321.
Eckel, Oliver C. Door for attenuating sound. 3,051,260, 8–28–62, Cl. 181—33.
Eckelaert, Jack F. : *See*—
Lee, Ralph E., and Eckelaert. 3,017,160.
Eckels, George H., and H. J. Troche, to Holan Corp. Mobile aerial stowage. 3,022,854, 2–27–62, Cl. 182—2.
Ecker, Mario E., and J. A. Liggett, to Radio Corp. of America. Automatic film transport reversing mechanism. 3,016,-210, 1–9–62, Cl. 242—55.12.
Ecker, Mario E., and J. J. Hoehn, to Radio Corp. of America. Automatic flywheel driving mechanism. 3,016,211, 1–9–62, Cl. 242—55.12.
Ecker, Merrill A. Adjustable paint roller. 3,044,094, 7–17–62, Cl. 15—230.
Eckerfeld, Alfred : *See*—
Schomann, Leonid. 3,052,776.
Eckerle, Otto : *See*—
Molly, Hans. 3,043,230.
Eckerman, Gunter, and A. Walz. Transistor circuit for selectively switching direct current energy to a load. 3,061,741, 10–30–62, Cl. 307—88.5.
Eckersall, Raymond A. System of handling freight. 3,028,-023, 4–3–62, Cl. 214—38.
Eckert, Alton B., Jr., to Pitney-Bowes, Inc. Article marking and orienting. 3,038,607, 6–12–62, Cl. 209—111.5.
Eckert, Clarence R. : *See*—
Bettoli, Phillip S., and Eckert. 3,027,294.
Eckert, Frank B. Reel and shipping container. 3,041,006, 6–26–62, Cl. 242—128.
Eckert, George W. : *See*—
Chafetz, Harry, and Eckert. 3,021,203.
Chafetz, Harry, and Eckert. 3,021,205.
Chafetz, Harry, Eckert, and Arkell. 3,036,904.
Heisler, Robert Y., and Eckert. 3,015,547.
Heisler, Robert Y., Hess, Eckert, and Ruidisch. 3,055,934.
Eckert, George W., to Texaco Inc. Adducts of aliphatic monocarboxylic acids and aliphatic amines in gasoline. 3,055,-746, 9–25–62, Cl. 44—66.
Eckert, Herbert L., to Allis-Chalmers Mfg. Co. Pilot type relief valve. 3,065,762, 11–27–62, Cl. 137—108.
Eckert, John P., Jr. : *See*—
Blumenthal, Edwin I., Eckert, and Welsh. 3,056,947.
Bonn, Theodore H., and Eckert. 3,041,468.
Eckert, John S., to The United States Stoneware Co. Saddles. 3,060,503, 10–30–62, Cl. 18—10.
Eckert, John S., to The United States Stoneware Co. Support plate. 3,064,954, 11–20–62, Cl. 261—98.
Eckert, Lewis W., to Armstrong Cork Co. Acoustical material and method of making the same. 3,017,947, 1–23–62, Cl. 181—33.
Eckert, Louis F., Jr., to ACF Industries, Inc. Stem-gate connection. 3,025,033, 3–13–62, Cl. 251—84.

Eckert, Oskar, to Steatit-Magnesia Aktiengesellschaft. Ferrite with constricted magnetic hysteresis loop. 3,024,196, 3–6–62, Cl. 252—62.5.

Eckert, Oskar, to Steatit-Magnesia Aktiengesellschaft. Ferrite containing neodymium. 3,066,102, 11–27–62, Cl. 252—62.5.

Eckert, Raymond H., and R. P. Baldwin. Cable applicator and rewind unit. 3,019,995, 2–6–62, Cl. 242—54.

Eckfeldt, Edgar L., and E. R. Kuczynski, to Leeds and Northrup Co. Conductivity cells. 3,025,458, 3–13–62, Cl. 324—30.

Eckfeldt, Edgar L., and E. R. Kuczynski, to Leeds and Northrup Co. Conductivity cells. 3,025,459, 3–13–62, Cl. 324—30.

Eckfeldt, Edgar L., and E. R. Kuczynski, to Leeds and Northrop Co. Conductivity cells. 3,054,047, 9–11–62, Cl. 324—30.

Eckhardt, Carl-Heinz: *See*—
Kindler, Adolf, and Eckhardt. 3,050,315.

Eckhardt, Robert: *See*—
Leitz, Ernst A., and Eckhardt. 3,029,720.

Eckhart, Edgar O., to Becton, Dickinson and Co. Hypodermic syringe barrel assembly. 3,055,365, 9–25–62, Cl. 128—218.

Eckler, Richard C., and A. L. Morrill, to Raytheon Co. Automatic decontamination of welding electrodes. 3,015,713, 1–2–62, Cl. 219—86.

Eckles, Geoffrey A., R. M. Elliott, W. H. Farley, and H. F. Schaefer, Jr., to United Shoe Machinery Corp. Moment of inertia and balancing apparatus. 3,040,563, 6–26–62, Cl. 73—65.

Ecklund, Oscar F., and R. W. Pilcher, to American Can Co. Method of forming longitudinally extending side seams in a tubular container. 3,066,063, 11–27–62, Cl. 156—200.

Eckman, Donald P., to Thompson Ramo Wooldridge Inc. Automatically leveling vehicle suspension system. 3,028,175, 4–3–62, Cl. 280—124.

Eckman, George E., to American Can Co. Process for sealing containers. 3,060,652, 10–30–62, Cl. 53—22.

Eckman, Richard E.: *See*—
Elliott, Charles H., and Eckman. 3,018,866.

Eckman, Richard E., to Reed Roller Bit Co. Pressure fluid actuated tool. 3,059,620, 10–23–62, Cl. 121—33.

Eckold, Walter. Bending press. 3,043,359, 7–10–62, Cl. 153—15.

Eckrich, Peter, and Sons, Inc.: *See*—
Gelow, Lavern E. 3,056,572.

Eckstein, Emil L. Aircraft outer surface covering. 3,065,940, 11–27–62, Cl. 244—130.

Eckstein, George R.: *See*—
Bayard, La Vern S., and Eckstein. 3,055,302.

Eckstein, Joel and L. H. Audiometer case. 3,047,350, 7–31–62, Cl. 312—300.

Eckstein, Leo H.: *See*—
Eckstein, Joel and L. H. 3,047,350.

Eckstrom, Milton G.: *See*—
Whitman, Ross C., and Eckstrom. 3,039,934.

Eclipse Fuel Engineering Co.: *See*—
Blockley, Eugene T., and Stone. 3,017,920.
Champion, Ronald H. 3,018,119.
Keating, James P., and Saunders. 3,044,537.
Keating, James P., and Saunders. 3,044,539.
Keating, James P., and Spielman. 3,064,720.
Saunders, John A., and Moore. 3,050,112.
Skerkoske, Eugene J., and Spielman. 3,044,754.

Eclipse Sleep Products, Inc.: *See*—
Livermore, Charles S. 3,049,154.
Livermore, Charles S. 3,049,155.
Livermore, Charles S. 3,049,156.
Martin, Joseph. 3,022,521.

Ecoff, Roy W. Tank ball valve. 3,056,141, 10–2–62, Cl. 4—57.

Econom, John J., L. F. Evans, and G. Reade, to International Telephone and Telegraph Corp. Feeding and support assembly. 3,028,943, 4–10–62, Cl. 197—133.

Economics Laboratory, Inc.: *See*—
Crecelius, Samuel B. 3,018,281.
Crecelius, Samuel B. 3,018,282.
Crecelius, Samuel B. 3,031,510.
Hopper, Samuel H. 3,050,405.
Martin, Arthur T., and Temple. 3,048,548.
Miller, Carl A. 3,021,862.

Economy Engine Co.: *See*—
Jaeger, Wilbert J. 3,028,443.
Kaehni, Frank J. 3,035,108.

Economy Engineering Co.: *See*—
Molis, Benedict. 3,050,153.

Economy Forms Corp.: *See*—
Jennings, Albert L. 3,035,539.
Jennings, William A. 3,021,582.
Jennings, William A. 3,030,061.

Economy Governor Co.: *See*—
Handley, Harold E. 3,021,866.

Econo-Pak Register Co., Inc.: *See*—
Smith, Roy R., Jr. 3,049,078.

Ecremeuses Melotte Societe Anonyme: *See*—
Dujardin, Albert J. A. J. 3,037,632.

Edberg, Edwin A., to Koppers Co., Inc. Method and apparatus for making foamed polymeric structures. 3,042,967, 7–10–62, Cl. 18—5.

Edberg, Edwin A., and J. J. Tress, to Koppers Co., Inc. Machine apparatus for manufacture of foamed polystyrene. 3,015,479, 1–2–62, Cl. 263—8.

Edburg, Anton H., Jr., to Shell Oil Co. Record punching machine. 3,049,989, 8–21–62, Cl. 101—19.

Edcliff Instruments, Inc.: *See*—
Darlington, William W. 3,052,858.

Eddington Metal Specialty Co.: *See*—
Czarnecki, Casimer M. 3,032,279.

Eddison, William B., and W. E. Erickson, to Gisholt Machine Co. Ring feeding apparatus. 3,029,499, 4–17–62, Cl. 29—208.

Eddleblute, Carl L. Truss connection. 3,059,293, 10–23–62, Cl. 20—92.

Eddowes, Cecil S., to Guardian S.A. Inlet valve for flush tanks. 3,036,591, 5–29–62, Cl. 137—426.

Edds, George T.: *See*—
Trace, James C., and Edds. 3,067,096.

Edds, Richard V., to Purex Corp., Ltd. Process for etching metal honeycomb. 3,053,720, 9–11–62, Cl. 156—18.

Eddy, George A., Jr., to Orville R. Seidner. Action toy. 3,034,786, 5–15–62, Cl. 272—57.

Eddy, James E., to United States of America, Interior. Magnetic type current meter. 3,069,907, 12–25–62, Cl. 73—229.

Eddy, James R.: *See*—
McAfee, Robert E., Eddy, and Moser. 3,065,822.

Eddy, James W., to Chrysler Corp. Seat adjustment. 3,049,329, 8–14–62, Cl. 248—394.

Eddy, William R., to Phillips Petroleum Co. Valve. 3,058,431, 10–16–62, Cl. 103—227.

Eddy, William R., and G. T. Byer, to Phillips Petroleum Co. Magnetic coupling. 3,050,646, 8–21–62, Cl. 310—104.

Eddystone Machinery Co.: *See*—
Aulen, Walter E. 3,045,940.
Aulen, Walter E. 3,061,221.

Ede, Stanley N., to National Research Development Corp. Mole plow supporting means. 3,032,903, 5–8–62, Cl. 37—193.

Edelbrock Equipment Co.: *See*—
Edelbrock, Otis V., Jr. 3,030,819.

Edelbrock, Otis V., Jr., to Edelbrock Equipment Co. Linkage for multiple carburetor installation. 3,030,819, 4–24–62, Cl. 74—471.

Edeleanu Gesellschaft m.b.H.: *See*—
Hoppe, Alfred, Langner, Westerhoff, Wolke, and Hauenstein. 3,019,179.

Edelen, Joseph M.: *See*—
Clark, Glen W., and Edelen. 3,024,545.

Edelhauser, Helmut: *See*—
Breitenbach, Johann W., and Edelhauser. 3,016,370.
Breitenbach, Johann W., and Edelhauser. 3,040,011.

Edelman, Franz: *See*—
Epstein David W., Schwartz, and Edelman. 3,045,141.

Edelman, Gilbert M., to United States of America, Navy. Guidance system. 3,065,930, 11–27–62, Cl. 244—14.

Edelman, Leonard E.: *See*—
Runk, Robert H., and Edelman. Re. 25,213.

Edelmann, E., & Co.: *See*—
Edelmann, Robert B. 3,040,584.
Edelmann, Robert B., and Koch. 3,061,138.

Edelmann, Robert B., to E. Edelmann & Co. Battery hydrometer. 3,040,584, 6–26–62, Cl. 73—443.

Edelmann, Robert B., and G. F. Koch, to E. Edelman and Co. Radiator cap. 3,061,138, 10–30–62, Cl. 220—44.

Edels, Siegfried, and A. W. Excell, to Rejafix Ltd. Silk screen printing machines. 3,026,003, 3–20–62, Cl. 221—225.

Edelson, Murray G., deceased; T. J. Downs, administrator. Broilers. 3,049,073, 8–14–62, Cl. 99—446.

Edelstone, Sigmund E., W. V. Dunlop, and H. E. Schlotthauer, to Spra-Lok Corp. Snap-on container cap lock. 3,049,262, 8–14–62, Cl. 220—55.

Edelstone, Sigmund E., and M. K. Hardison, to Spra-Lok Corp. Snap-on container cap lock. 3,049,263, 8–14–62, Cl. 220—55.

Eden, George E., and K. V. Melbourne, to National Research Development Corp. Liquid sampling apparatus. 3,044,300, 7–17–62, Cl. 73—422.

Eden, Harold E., to International Business Machines Corp. Error checking devices. 3,066,601, 12–4–62, Cl. 101—93.

Eden, Jamal S., to Diamond Alkali Co. Chemical composition and process. 3,025,214, 3–13–62, Cl. 167—33.

Edenbaum, Martin I.: *See*—
Brickman, Leo, and Edenbaum. 3,043,298.

Edens, Samuel V., C. I. Goodrich, Jr., and W. H. Seals, to North American Aviation, Inc. Electroluminescence. 3,047,762, 7–31–62, Cl. 313—108.

Eder, Hans: *See*—
Kibinger, Fritz, and Eder. 3,045,679.

Eder, Theodor. Process and apparatus for separating granular solids into two or more end fractions. 3,042,204, 7–3–62, Cl. 209—157.

Eder, Virgil K., to General Motors Corp. Vectoring nozzle heat dam. 3,069,853, 12–25–62, Cl. 60—35.55.

Ederer, Norbert, to Curtiss-Wright Corp. Chart recording system. 3,026,038, 3–20–62, Cl. 235—187.

Edgar, Hugh C.: *See*—
Gajda, Leo P., Edgar, and Kazmierczak. 3,026,594.

Edgar, Hugh C., and L. P. Gajda, to Arthur Colton Co. Tablet forming machine. 3,016,027, 1–9–62, Cl. 107—17.

Edgar, John A., and F. R. Watson, to Shell Oil Co. Oil removal and gauging apparatus. 3,033,311, 5–8–62, Cl. 184—1.5.

Edgar, Robert F., and R. E. Tompkins, to General Electric Co. Hardness measurement. 3,042,862, 7–3–62, Cl. 324—64.

Edgcomb, Robert A.: *See*—
Kaye, Harold J. 3,018,994.

Edgecombe, David A., to The Babcock & Wilcox Co. Multiport extrusion die. 3,063,560, 11–13–62, Cl. 207—17.

Edgecombe, David A., W. R. Walker, and C. P. Church, to The Babcock & Wilcox Co. Method of scalping billet during extrusion. 3,061,993, 10–30–62, Cl. 207—10.

Edgemond, John W., Jr., and J. J. O'Connor, to Yuba Consolidated Industries, Inc. Power saw. 3,021,881, 2–20–62, Cl. 143—174.

Edgerly, Charles R., W. J. Summers, and A. Gorski, to Westinghouse Electric Corp. Tray-loading apparatus. 3,054,-235, 9–18–62, Cl. 53—63.

Edgerly, Gerald O., and R. R. Eccleston, to United States Rubber Co. Method of making flexible diaphragms for use in fluid springs. 3,030,252, 4–17–62, Cl. 156—132.

Edgerly, Glenn E., H. R. Hahn, and S. Auslender, to United Aircraft Corp. Eddy current magnetic liquid metal pump. 3,038,409, 6–12–62, Cl. 103—1.

Edgerton, Germeshausen & Grier, Inc.: *See*—
Cochrane, Douglas O. 3,048,788.
Conley, Fred M. 3,031,737.
Drake, Arthur K., and Cochrane. 3,027,517.
Edgerton, Harold E. 3,033,988.
Edgerton, Harold E. 3,065,667.
Germeshausen, Kenneth J. 3,051,918.

Edgerton, Harold E., to Edgerton, Germeshausen & Grier, Inc. Method of and apparatus for the control of electric impulses. 3,033,988, 5–8–62, Cl. 250—205.

Edgerton, Harold E., to Edgerton, Germeshausen & Grier, Inc. Transparency photographic apparatus. 3,065,667, 11–27–62, Cl. 88—24.

Edgerton, Rollie. Sprue for molding apparatus. 3,036,349, 5–29–62, Cl. 22—162.

Edgewood Laboratories, Inc.: *See*—
Mansor, Leo. 3,019,165.

Edgington, Harold O. Automatic dip-net. 3,031,789, 5–1–62, Cl. 43—11.

Edhofer, Georg, H. Hollerer, K. Lebsanft, and E. Schmidt, to Wacker-Chemie G.m.b.H. Process and apparatus for cleaning rigid objects. 3,028,267, 4–3–62, Cl. 134—7.

Edit dell Ing.-Renato Piana & C.S.A.S.: *See*—
Piana, Renato. 3,065,574.

Edlen, George, and L. G. Dumire, to Phelps Dodge Copper Products Corp. Coaxial cable coupling. 3,070,649, 12–25–62, Cl. 174—75.

Edlen, George G., and L. G. Dumire, to Phelps Dodge Copper Products Corp. Means for connecting metal jacketed coaxial cable. 3,040,288, 6–19–62, Cl. 339—103.

Edlen, George G., and L. G. Dumire, to W. D. Hall. Thermostat control fans. 3,062,938, 11–6–62, Cl. 200—138.

Edlin, Frank E., to E. I. du Pont de Nemours and Co. Reflector for solar heaters. 3,058,394, 10–16–62, Cl. 88—73.

Edman, Marvin O.: *See*—
Anderson, Chester A. 3,018,713.

Edman, Thomas: *See*—
Cooper, Walter P., and Edman. 3,069,885.

Edminster, Robert E., E. L. Fritz, R. J. Furr, E. M. Valerhach, and J. A. Weidenhammer, to International Business Machines Corp. Document reading and sorting machine. 3,039,682, 6–19–62, Cl. 235—61.11.

Edmonds, Byron P.: *See*—
Dahms, James B., and Edmonds. 3,058,729.

Edmonds Co.: *See*—
Blaisdell, Sidney B. 3,026,062.

Edmonds, Dolly B.: *See*—
Edmonds, Eugene A. 3,016,067.

Edmonds, Eugene A., deceased, D. B. Edmonds, executrix, to Henry Vogt Machine Co. Liquid distributing device. 3,016,067, 1–9–62, Cl. 138—38.

Edmonds, Harvey A., and J. L. Hadsel, to Structural Clay Products Research Foundation. Accumulator and foldover apparatus. 3,039,593, 6–19–62, Cl. 198—35.

Edmonds, James T., Jr.: *See*—
Canterino, Peter J., and Edmonds. 3,023,180.

Edmonds, James T., Jr., to Phillips Petroleum Co. Process and catalyst for production of olefin polymers. 3,066,132, 11–27–62, Cl. 260—94.9.

Edmonds, John R., to Rowe Machinery & Mfg. Co., Inc. Coil cradle rolls. 3,048,347, 8–7–62, Cl. 242—78.7.

Edmonds, Lee O.: *See*—
Shotton, James A., and Edmonds. 3,060,060.

Edmonds, Lee O., to Phillips Petroleum Co. Coating method and article produced thereby. 3,057,746, 10–9–62, Cl. 117—21.

Edmondson, Locke F.: *See*—
Murthy, Gopala K., Campbell, Masurovsky, and Edmondson. 3,020,161.

Edmondson, William B. Solar water still. 3,015,613, 1–2–62, Cl. 212—187.

Edmont Inc.: *See*—
Rytina, Anton W. 3,050,738.

Edmund, Jane P.: *See*—
Faulkner, Albert A. 3,068,750.

Edmund, John A.: *See*—
Faulkner, Albert A. 3,068,750.

Edmund, Norman W.: *See*—
Faulkner, Albert A. 3,068,750.

Edmund, Pauline A.: *See*—
Faulkner, Albert A. 3,068,750.

Edmund, Robert M.: *See*—
Faulkner, Albert A. 3,068,750.

Edmund Scientific Co.: *See*—
Faulkner, Albert A. 3,068,750.

Edmunds, Alvin M., to The Dow Chemical Co. Porous distributor plate assembly. 3,024,913, 3–13–62, Cl. 210—293.

Edmunds, Arthur G. W. Information storage systems. 3,016,524, 1–9–62, Cl. 340—174.1.

Edmunds, Ernest R.: *See*—
Faust, Francis S., and Edmunds. 3,070,104.

Edmunds, William H., to I-T-E Circuit Breaker Co. Circuit breaker having electrical and mechanical coordination with a current limiting device. 3,032,631, 5–1–62, Cl. 200—114.

Edmunds, William H., to I-T-E Circuit Breaker Co. Interlocking mechanism. 3,054,025, 9–11–62, Cl. 317—119.

Edmunds, William H., to I-T-E Circuit Breaker Co. Compounded thermal bimetal for ambient compensation. 3,064,101, 11–13–62, Cl. 200—116.

Edmunds, William H., to I-T-E Circuit Breaker Co. Solderless contact. 3,066,277, 11–27–62, Cl. 339—245.

Edmunds, William H., to I-T-E Circuit Breaker Co. Selective trip arrangement utilizing circuit breakers which are coordinated with current limiting fuses. 3,070,728, 12–25–62, Cl. 317—26.

Edmundson, Warren F., to J. W. Sandberg. Combination telescopic crank and pump. 3,044,410, 7–17–62, Cl. 103—153.

Edneli, Daniel F. Method for the production of refractory containers. 3,066,069, 11–27–62, Cl. 162—227.

Edoco Technical Products, Inc.: *See*—
Worson, Lee. 3,023,681.

Edridge, Frederick T. Device for the suspension of tobacco leaves and analogous purposes. 3,056,621, 10–2–62, Cl. 294—5.5.

Edson, James O.: *See*—
Black, Harold S., and Edson. 3,020,350.

Edson, Murray H.: *See*—
Jonas, Patrick L., Edson, and Wilson. 3,016,739.

Edson, Robert C., to Bell Telephone Laboratories, Inc. Monostable multivibrator responsive to positive and negative trigger pulses from single source. 3,021,488, 2–13–62, Cl. 328—196.

Edström, Andrew H., to American Radiator & Standard Sanitary Corp. Zero backlash coupling. 3,034,323, 5–15–62, Cl. 64—31.

Edström, John O., to Svenska Metallverken, Messrs. Aktiebolaget. Method for the production of metallic-ceramic materials. 3,044,867, 7–17–62, Cl. 75—5.

Edström, John O., and G. H. Widmark. Method of degasifying steel and other metals. 3,026,195, 3–20–62, Cl. 75—49.

Edström, Nils H., C.-E. W. Härlin, and K. Katzeff, to Telefonaktiebolaget L M Ericsson. Coin identification and signalling telephone device. 3,069,502, 12–18–62, Cl. 179—6.3.

Edströms, Olle, to Aktiebolaget O. Edstroms Sniekerifabrik. Peep sight. 3,021,600, 2–20–62, Cl. 33—47.

Edstrom, Theodore: *See*—
Winter, Lester L., and Edstrom. 3,046,240.

Edstrom, Theodore, to Union Carbide Corp. Slave recording apparatus. 3,065,468, 11–20–62, Cl. 346—112.

Edstrom, Woodrow O.: *See*—
Daniels, Howard L., Edstrom and Herzfeld. 3,063,181.

Edströms, O., Snickerifabrik, Aktiebolaget: *See*—
Edström, Olle. 3,021,600.

Eduard Winter Motoren- und Apparatebau: *See*—
Boomkens, Hans. 3,016,228.

Ed-U-Cards Mfg. Co.: *See*—
Hepp, James. 3,055,494.

Educational Aids Publishing Corp.: *See*—
Schure, Alexander. 3,046,675.

Educational Developmental Laboratories, Inc.: *See*—
Taylor, Stanford E. 3,055,122.

Edward, William G.: *See*—
Bowling, Robert T., Edward, Keller, and Scheelke. 3,017,909.

Edwards, Alan R., to Commonwealth of Australia. Chromiumtungsten alloys. 3,067,031, 12–4–62, Cl. 75—176.

Edwards, Belvin. Speed reducing attachment for an outboard motor. 3,016,871, 1–16–62, Cl. 115—42.

Edwards, Bernard: *See*—
Hainway, Edward G., and Edwards. 3,041,193.

Edwards, Bob W. Boom seat. 3,039,561, 6–19–62, Cl. 182—2.

Edwards, Bryant, to Illinois Tool Works Inc. Container, and method and machinery for producing same. 3,059,810, 10–23–62, Cl. 220—97.

Edwards, Bryant, to Illinois Tool Works, Inc. Self-venting package. 3,061,139, 10–30–62, Cl. 220—44.

Edwards, David B. G.: *See*—
Kilburn, Tom, and Edwards. 3,053,452.

Edwards, Edwin D., and R. J. Hach, to Advanced Oil Tools, Inc. Jet perforator for well casings. 3,019,731, 2–6–62, Cl. 102—20.

Edwards Equipment Co.: *See*—
Maloney, Frederick G. 3,054,520.

Edwards, Eric D.: *See*—
Elliott, John S., and Edwards. 3,030,304.

Edwards, Floyd B. Points for digging buckets. 3,055,128, 9–25–62, Cl. 37—142.

Edwards, Franklin W., to Philco Corp. Drying apparatus. 3,036,383, 5–29–62, Cl. 34—76.
Edwards, Gayle D.: *See*—
Moore, Howard V., Edwards, and Lichtenwalter. 3,046,-149.
Edwards, Harold L., to Phillips Petroleum Co. Portable folding lectern. 3,034,253, 5–15–62, Cl. 45—121.
Edwards, Harrison F., to Simmonas Aerocessories, Inc. Capacity unit for liquid quantity gauges. 3,050,999, 8–28–62, Cl. 73—304.
Edwards, Harry, and J. A. Partridge, to Imperial Chemical Industries Ltd. Spray gun with mixing means. 3,035,-775, 5–22–62, Cl. 239—142.
Edwards, Harry, J. A. Partridge, N. Shanks, and J. Wilcock, to Imperial Chemical Industries Ltd. Spray guns and the like. 3,042,311, 7–3–62, Cl. 239—143.
Edwards, Harry, and J. A. Partridge, to Imperial Chemical Industries Ltd. Multiple-feed spray guns. 3,049,267, 8–14–62, Cl. 222—134.
Edwards, Herbert C., to The Timken Roller Bearing Co. Axle bearing adjusting means. 3,023,057, 2–27–62, Cl. 308—207.
Edwards High Vacuum Ltd.: *See*—
Holland, Leslie A., and Laurenson. 3,056,740.
Power, Basil D., and Runki. 3,057,546.
Edwards, Hugh, to Bradley & Vrooman Co. Primer composition and metal base coated therewith. 3,035,939, 5–22–62, Cl. 117—75.
Edwards, Huw B., and V. M. Anderson, to Ericsson Telephones Ltd. Polarized A.C. ringers. 3,042,843, 7–3–62, Cl. 317—188.
Edwards, Jack H.: *See*—
Winsauer, Weldon O., and Edwards. 3,022,825.
Edwards, Jack H., to Jersey Production Research Co. Drill bit. 3,055,443, 9–25–62, Cl. 175—330.
Edwards, Jack L. Pump alarm and control device. 3,050,-003, 8–21–62, Cl. 103—25.
Edwards, Jack T., and R. E. Line, to General Motors Corp. Electrical aircraft heater. 3,063,031, 11–6–62, Cl. 338—275.
Edwards, John: *See*—
Bowers, Albert, and Edwards. 3,035,068.
Bowers, Albert, and Edwards. 3,036,098.
Bowers, Albert, and Edwards. 3,038,898.
Bowers, Albert, and Edwards. 3,056,814.
Bowers, Albert, Edwards, and Orr. 3,051,730.
Bowers, Albert, Edwards, and Orr. 3,055,916.
Bowers, Albert, Edwards, and Orr. 3,055,920.
Bowers, Albert, Edwards, and Orr. 3,057,883.
Bowers, Albert, Edwards, and Orr. 3,062,849.
Ringold, Howard J., Mancera, Rosenkranz, and Edwards. 3,019,239.
Ringold, Howard J., Mancera, Rosenkranz, and Edwards. 3,036,095.
Edwards, John, to Syntex Corp. 2,3-acetonide derivatives of androstanes. 3,066,138, 11–27–62, Cl. 260—239.55.
Edwards, John E. Self-cleaning soil punch. 3,040,823, 6–26–62, Cl. 175—162.
Edwards, Kenneth N., to Wood Conversion Co. Intumescent coating. 3,053,714, 9–11–62, Cl. 154—44.
Edwards, Landon B., Jr. Storage rack. Re. 25,117, 1–30–62, Cl. 211—134.
Edwards, Lawrence J., and W. V. Hough, to Callery Chemical Co. Alkali metal triborohydrides and method of making. 3,031,259, 4–24–62, Cl. 23—14.
Edwards, Lawrence H. Rotary rod weeder attachments for cultivators. 3,033,294, 5–8–62, Cl. 172—44.
Edwards, Lawrence J., to Callery Chemical Co. Preparation of metal borohydrides. 3,042,485, 7–3–62, Cl. 23—14.
Edwards, LeRoy B. Dry cleaning process and composition. 3,030,172, 4–17–62, Cl. 8—142.
Edwards, Lyman M.: *See*—
Castel, Jacques H., and Edwards. 3,068,400.
Edwards, Marvin B.: *See*—
Hagemeyer, Hugh J., Jr., and Edwards. 3,067,183.
Hagemeyer, Hugh J., Jr., Park, and Edwards. 3,026,312.
Edwards, Meryl J. Method of and means for physiotherapy. 3,056,409, 10–2–62, Cl. 128—422.
Edwards, Miles L. Self-priming gas-expelling pump. 3,031,974, 5–1–62, Cl. 103—113.
Edwards, Orville P.: *See*—
Zink, John S., Jr., Duncan, Edwards, and Reed. 3,033,-273.
Edwards, Richard A., and E. E. Reynolds, to Smith-Corona Marchant Inc. Calculating machines. 3,017,088, 1–16–62, Cl. 235—145.
Edwards, Robert. Automatic photographic shutter. 3,060,-820, 10–30–62, Cl. 95—10.
Edwards, Roy E., to Girling Ltd. Disc brake. 3,033,320, 5–8–62, Cl. 188—70.
Edwards, Roy T., and R. F. Westall, to Socony Mobil Oil Co., Inc. Process for dewaxing of lube oils and deoiling of waxes. 3,052,623, 9–4–62, Cl. 208—31.
Edwards, Russell T.: *See*—
Hale, Arthur N., Nelson, and Edwards. 3,063,770.
Edwards, Thomas: *See*—
Westbury, Roy, Courtenay, and Edwards. 3,023,638.
Edwards, Thomas C. Cooking utensil. 3,065,855, 11–27–62, Cl. 210—469.
Edwards, Walter G.: *See*—
Andrews, Ladimer J., Edwards, and Hudson. 3,040,986.
Glaser, Peter S., Hudson, Edwards, and Porter. 3,040,-985.
Edwards, Walter G., J. F. Hudson, and E. F. Klein, to The National Cash Register Co. Program control apparatus. 3,042,305, 7–3–62, Cl. 235—157.
Edwards, Walter G., and E. F. Klein, to The National Cash Register Co. Multi-purpose register. 3,054,988, 9–18–62, Cl. 340—172.5.
Edwards, Webster H., to E. I. du Pont de Nemours and Co. Pigment composition and process. 3,052,644, 9–4–62, Cl. 260—22.
Edwards, William E.: *See*—
Anderson, Richard K. 3,036,468.
Ketterer, Stanley J., and Edwards. 3,063,392.
Edwards, William J.: *See*—
Ketterer, Stanley J., Edwards, and Ivanko. 3,038,429.
Edwards, William R.: *See*—
De Pierri, William G., Jr., Edwards, and Boynton. 3,052,741.
Edwards, William R., and W. R. McMurran, to United States of America, Navy. Fluid operated dispenser. 3,040,727, 6–26–62, Cl. 124—11.
Edwards, William R., and K. Schwartzwalder, to General Motors Corp. Method for making silicon nitride-bonded silicon carbide semiconductors and resulting bodies and articles using same. 3,052,814, 9–4–62, Cl. 313—131.
Eekhout, Frederik J., and G. J. Lutje Wooldrik. Method of processing an offset rubber blanket. 3,025,186, 3–13–62, Cl. 117—139.
Eerde, John, to Mergenthaler Linotype Co. Oxidation-stable developer compositions. 3,050,392, 8–21–62, Cl. 96—61.
Eff, Christian A., to General Electric Co. Oven thermostat shielding system. 3,059,088, 10–16–62, Cl. 219—35.
Effco, Inc.: *See*—
Whitley, William M. 3,032,603.
Efram, Rudolph H., M. L. Applebaum, and M. Henry. Card sorting system. 3,022,891, 2–27–62, Cl. 209—111.5.
Efron, Miles S., to United Electro Plastics Corp. Method of producing molds for molding gloves. 3,068,156, 12–11–62, Cl. 204—9.
Efstathiou, John: *See*—
Bacon, Stanley H., Efstathiou, and Greene. 3,060,272.
Eftax, Daniel S. P.: *See*—
Dunlop, Andrew P., and Eftax. 3,047,586.
Eftring, Karl E.: *See*—
Lunden, Olof B., Eftring, and Bjelke. 3,055,794.
Egami, Ichiro. Electrolytic production of $TiCl_4$ and Mg by means of a special anode. 3,021,268, 2–13–62, Cl. 204—64.
Egan, Clark J., to California Research Corp. Method for separating n-hydrocarbons using molecular sieves. 3,054,-838, 9–18–62, Cl. 260—676.
Egan, Edmond F., and L. M. Hubby, Texaco Inc. Apparatus for compensating for gradual changes in load on a walking beam pump. 3,016,767, 1–16–62, Cl. 74—589.
Egan, Edmond F., to Texaco Inc. Method of locating and studying permeable subsurface formations. 3,068,355, 12–11–62, Cl. 250—43.5.
Egan, Edward F., to Frank W. Egan & Co. Continuous counter roll winder. 3,066,883, 12–4–62, Cl. 242—56.6.
Egan, Frank W., & Co.: *See*—
Egan, Edward F. 3,066,883.
Russell, Alfred G. 3,036,385.
Egan, John F., and K. F. Block, to Eastman Kodak Co. Shutter indicator. 3,038,437, 6–12–62, Cl. 116—114.
Egan, Richard: *See*—
Singher, Herman O., and Egan. 3,060,102.
Egan, Walter G. Protective clothing for radar workers. 3,039,172, 6–19–62, Cl. 28—80.
Egbert, Richard A., to Thompson Ramo Wooldridge Inc. Remote frequency indicator. 3,035,256, 5–15–62, Cl. 340—315.
Egbert, William F., and E. W. Spears, Jr., to General Motors Corp. Combustion apparatus. 3,046,742, 7–31–62, Cl. 60—39.65.
Egbert, William F., and E. W. Spears, Jr., to General Motors Corp. Afterburner combustion apparatus. 3,062,006, 11–6–62, Cl. 60—39.6.
Egbert, William R., to Lundstrom Laboratories, Inc. Fortified wooden bowling pins. 3,065,966, 11–27–62, Cl. 273—82.
Egdom, Clarence W.: *See*—
Schoeld, Edmund A., and Egdom. 3,017,028.
Ege, Sigmund, to Anaconda Wire and Cable Co. Pipe-type cable core with armor tape reinforcing. 3,047,652, 7–31–62, Cl. 174—108.
Egedal, Lawrence E. Wire straighteners. 3,029,845, 4–17–62, Cl. 140—147.
Eger, Edward F., to Western Electric Co., Inc. Turntable article distributing device. 3,036,694, 5–29–62, Cl. 198—25.
Eger, Edward F., and W. O. Simpson, to Western Electric Co., Inc. Rack loading machine. 3,018,008, 1–23–62, Cl. 214—6.
Eger, George W., Jr., and P. J. Costa, to Caterpillar Tractor Co. Wheel slip control for wheel-type tractors. 3,025,722, 3–20–62, Cl. 74—711.
Eggeling, Helmut, to Brown, Boveri & Cie, Aktiengesellschaft. Stability angle limit regulator for alternating current generators. 3,058,050, 10–9–62, Cl. 322—20.
Eggenberger, John S., to International Business Machines Corp. Memory array. 3,070,782, 12–25–62, Cl. 340—174.
Eggenberger, John S., J. C. Lloyd, and R. S. Smith, to International Business Machines Corp. Thin magnetic film. 3,019,125, 1–30–62, Cl. 117—8.

Eggenberger, John S., J. C. Lloyd, and R. S. Smith, to International Business Machines Corp. Isotropic thin magnetic film. 3,047,423, 7–31–62, Cl. 117—107.
Eggenberger, Markus A., to General Electric Co. Control mechanism for operating steam turbines under partial load with full arc admission. 3,027,137, 3–27–62, Cl. 253—59.
Egger, Georg M.: *See*—
Studer, Martin, Settele, and Egger. 3,061,401.
Egger, Josef, to Durowe A.G. Second hand drive for timepieces. 3,058,293, 10–16–62, Cl. 58—28.
Eggers, Gerhard: *See*—
Ernst, Günther, and Eggers. 3,018,988.
Eggers, Gerhard, and G. Ernst, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Device for controlling the jet of a reaction propulsion motor. 3,020,-714, 2–13–62, Cl. 60—35.54.
Eggers, Gerhard, G. Ernst, E. Y. J. M. Gire, and F. J.-M. G. Tremouilles, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Jet control apparatus. 3,036,430, 5–29–62, Cl. 60—35.54.
Eggers, Gerhard, and R. H. Dumez, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Device for steering aircraft designed for vertical flight. 3,045,953, 7–24–62, Cl. 244—52.
Eggers, Gerhard, R. H. Dumez, and G. Ernst, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Vertical take off composite aircraft. 3,058,691, 10–16–62, Cl. 244—2.
Eggert, Joachim, and E. Tronnier, to Voigtlander A.G. Triple lens objective assembly. 3,039,359, 6–19–62, Cl. 88—57.
Eggert, Lewis J., and W. S. Tufts, to Ranco Inc. Electric switch mechanism. 3,018,340, 1–23–62, Cl. 200—38.
Eggert, Walter S., Jr., to The Budd Co. Method and apparatus for making resistance welds in T sections. 3,061,713, 10–30–62, Cl. 219—107.
Eggman, Luther: *See*—
Dukes, John R., and Eggman. 3,050,626.
Eggman, Max E., to The Magnavox Co. Delay firing mechanism. 3,018,734, 1–30–62, Cl. 102—75.
Eggo Food Products, Inc.: *See*—
Brady, Kenneth J., and Hawk. 3,037,674.
Egler, Vernon C., and H. R. Morgan, to The Kendall Co. Suture ligating package. 3,062,372, 11–6–62, Cl. 206—63.3.
Egleston, Fred F., and L. R. Misner. Door assembly. 3,024,-838, 3–13–62, Cl. 160—193.
Egleston, Harry B.: *See*—
Monroe, Charles Z., and Egleston. 3,060,443.
Monroe, Charles Z., Egleston, and Thibo. 3,031,811.
Egli, Hans, and W.E. Parker, to The Garrett Corp. Starting system for engines. 3,048,005, 8–7–62, Cl. 60—13.
Egloff, William C., and C. W. Dahl, to Goodall Mfg. Corp. Combination oil reservoir and bearing mount for internal combustion engines. 3,037,582, 6–5–62, Cl. 184—6.
Egly, Martha H.: *See*—
Lesher, John C. 3,051,934.
Egly, William D. Traveling lawn sprinkler. 3,028,101, 4–3–62, Cl. 239—190.
Egner, Russell F. Order assembling apparatus. 3,039,565, 6–19–62, Cl. 186—1.
Egry Ltd.: *See*—
Backhoff, Harold A. W., and Beech. 3,031,952.
Ehelm, Franz: *See*—
Hofer, Gerald, and Ehelm. 3,058,455.
Ehgartner, Gabriele: *See*—
Kiper, Gerd, and Ehgartner. 3,067,662.
Ehlenbeck, Georg, to Jagenberg-Werke Akt.-Ges. Apparatus for labeling bottles and like articles. 3,031,367, 4–24–62, Cl. 156—476.
Ehlers, Forrest A.: *See*—
Armen, Ardy, and Ehlers. 3,057,816.
Armen, Ardy, and Ehlers. 3,057,817.
Murdock, Stanley A., Davis, and Ehlers. 3,029,220.
Murdock, Stanley A., Davis, and Ehlers. 3,035,009.
Murdock, Stanley A., Davis, and Ehlers. 3,036,032.
Ehlers, Forrest A., to The Dow Chemical Co. Ring-substituted N-vinyl-2-oxazolidinone copolymers. 3,017,390, 1–16–62, Cl. 260—77.5.
Ehlers, Johann: *See*—
Waas, Heinrich, Ehlers, and Grim. 3,045,628.
Ehlers, Max, G. Liedtke, and H. Hilgert. Method for the control of weeds. 3,046,104, 7–24–62, Cl. 71—2.3.
Ehlert, Heinrich M., to Messrs. A/S Lumino Feed Co. Process for treating oil-containing animal material, such as fish and fish offal. 3,041,174, 6–26–62, Cl. 99—7.
Ehlert, William A., to The Ajax Mfg. Co. Forging control. 3,033,063, 5–8–62, Cl. 80—26.
Ehlert, William A., and L. D. Mersek, to The Ajax Mfg. Co. Wire drawing apparatus. 3,017,016, 1–16–62, Cl. 205—13.
Ehman, George L. Protector seals. 3,023,927, 3–6–62, Cl. 220—66.
Ehmann, Carl: *See*—
Clark, Robert L., and Ehmann. 3,054,872.
Ehmann, Leslie G., to Esco Corp. Press. 3,064,706, 11–20–62, Cl. 153—1.
Ehmann, Ludwig: *See*—
Wettstein, Albert, Anner, and Ehmann. 3,060,174.
Wettstein, Albert, Anner, Meystre, Wieland, Ehmann, Heusler, Hunger, and Kebrle. 3,026 340.
Wettstein, Albert, Anner, Meystre, Wieland, Ehmann, Heusler, Hunger, and Kebrle. 3,033,881.
Ehmann, Ludwig: *See*—**Continued**
Wettstein, Albert, Anner, Meystre, Wieland, Ehmann, Heusler, Hunger, and Kebrle. 3,040,072.
Ehmann, Werner: *See*—
Starck, Werner, Kahrs, Kuhlkamp, and Ehmann. 3,050,-508.
Ehmann, Werner, and A. Kühlkamp, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of polyvinyl alcohol. 3,028,374, 4–3–62, Cl. 260—91.3.
Ehmke, Murray H. Golf club head. 3,019,022, 1–30–62, Cl. 273—163.
Emke, Murray H. Golf club head. 3,043,596, 7–10–62, Cl. 273—163.
Ehrat, Alfred J., and J. B. Williams, to American Machine & Foundry Co. Bounce compensator for free piston engines. 3,024,591, 3–13–62, Cl. 60—19.
Ehrenberg, Paul: *See*—
Laut, Wilhelm, and Ehrenberg. 3,037,372.
Ehrenburg, Leonid. Waterproofing agents for cement and concrete. 3,047,407, 7–31–62, Cl. 106—12.
Ehrenreich, A., & Cie: *See*—
Gottschald, Rudolf. 3,037,787.
Herfeld, Hans, Reicher, and Pfleiderer. 3,059,318.
Langen, Viktor. 3,025,090.
Vogt, Jakob. 3,066,963.
Ehrenthal, Irving, and G. J. Block, to Anheuser-Busch, Inc. High fermentable non-crystallizing syrup and the process of making same. 3,067,066, 12–4–62, Cl. 127—38.
Ehret, Leslie W., to The Adlake Co. Weatherproof battery box. 3,067,905, 12–11–62, Cl. 220—24.
Ehrhardt, Charles H.: *See*—
Grubb, Henry M., and Ehrhardt. 3,064,193.
Ehrhardt, Klaus, and F. Kehrer, to Sandoz A.G. Lakes of monoazo dyestuffs. 3,036,059, 5–22–62, Cl. 260—149.
Ehrhart, Gustav, I. Hennig, E. Lindner, and H. Ott, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Beta-hydroxy-butyric acid amide derivatives and process for their use as narcotics. 3,051,618, 8–28–62, Cl. 167—52.
Ehrhart, Gustav, I. Hennig, E. Lindner, and H. Ott, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. β-hydroxy-butyric acid amide derivatives and process of preparing them. 3,051,742, 8–28–62, Cl. 260—475.
Ehrhart, Gustav, I. Hennig, E. Lindner, and H. Ott, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. β-hydroxybutyric acid-cyclohexylamide and a process of preparing it. 3,063,899, 11–13–62, Cl. 167—65.
Ehrhart, William E., to United States Steel Corp. Working-time recorder. 3,019,658, 2–6–62, Cl. 73—432.
Ehrler, John W., to Bentzinger Bros., Inc. Display holder. 3,035,693, 5–22–62 Cl. 206—80.
Ehrlich, John: *See*—
Bartz, Quentin R., Ehrlich, Knudsen, and Smith. 3,023,-204.
Frohardt, Roger P., Pittillo, and Ehrlich. 3,065,137.
Haskell, Theodore H., Ehrlich, Pittillo, and Anderson. 3,043,830.
Ehrlich, Joseph C. Disposable lancet. 3,046,987, 7–31–62, Cl. 128—314.
Ehrlich, Raphael H.: *See*—
Potter, Claud N., and Ervin. 3,067,731.
Ehrlich, Maximilian, and J. Poliak, to Leviton Mfg. Co., Inc. Electric wall switch. 3,030,479, 4–17–62, Cl. 200—168.
Ehrlich Stanley L., and V. Savchuk. Tubular electrostrictive transducer with spaced electrodes and loading masses. 3,068,446, 12–11–62, Cl. 340—8.
Ehrlichmann, Merlin W, and N. F. Emergency chain for vehicle wheels. 3,036,617, 5–29–62, Cl. 152—236.
Ehrlichmann, Niles F.: *See*—
Ehrlichmann, Merlin W. and N. F. 3,036,617.
Ehrmantraut, Harry C.: *See*—
Marshall, Bruce D., and Ehrmantraut. 3,020,748.
Ehrsam, George W., Jr., L. Rubinowitz, and S. H. Silver, to American Machine & Foundry Co. Blast actuated closures. 3,064,552 11–20–62 Cl. 98—119.
Ehrsam, J. B. & Sons Mfg. Co., The: *See*—
Keller, Hugh. 3,023,035.
Wickman, Erwin E. 3,061,073.
Eibl, Johann: *See*—
Auerswald, Wilhelm, and Eibl. 3,061,518.
Eibl, William F., and J. L. Greene, to General Motors Corp. Method and apparatus for machining carburetor ports. 3,034,381, 5–15–62, Cl. 77—32.2.
Eichbaum, Barlane R.: *See*—
Brownlow, James M., and Eichbaum. 3,028,337.
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Eichelberger, Edward B., to International Business Machines Corp. High order detector circuit. 3,067,335, 12–4–62, Cl. 307—88.
Eichelman, Burr S.: *See*—
Echelman, John M. and B. S., and Towsley. 3,050,889.
Eichelman, John M. and B. S., Towsley, F. E. and J. F. Moffett, and Zeltner. 3,025,648.
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Steele, Martin C., and Eichenbaum. 3,064,210.

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Burns, Ray S., Rhodes, and Eichenberg. 3,059,698.

Eichenberger, Hans P., to Thompson Ramo Wooldridge Inc. Method and apparatus for reducing drag on submerged vehicles. 3,016,865, 1–16–62, Cl. 114—67.

Eichenberger, Kurt: *See*—
Druey, Jean, and Eichenberger. 3,060,185.
Druey, Jean, Eichenberger, Schmidt, and Rossi. 3,060,177.
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Eichenberger, Werner: *See*—
Loepfe, Eirch, and Eichenberger. 3,053,986.

Eichenlaub, Adelbert C., to American Cement Corp. Process for manufacture of aggregate material, and product obtained thereby. 3,030,222, 4–17–62, Cl. 106—288.

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Eichert, Richard R. High speed air motor. 3,059,899, 10–23–62, Cl. 253—2.

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Eichhorn, Jacob: *See*—
McMaster, Elmer L., Eichhorn, and Nagle. 3,058,927

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Eichhorn, Victor H.: *See*—
Cortese, Joseph, and Vollman. 3,051,111.

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Eichler, Jack H., to Curtiss-Wright Corp. Rotary wipers, particularly for aircraft. 3,050,765, 8–28–62, Cl. 15—250.22.

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Eichmann, Karl. Sealing arrangement between relatively rotating parts in hydraulic and pneumatic machines, especially gas and liquid pumps and motors, internal combustion engines, hydraulic torque converters and the like. 3,062,151, 11–6–62, Cl. 103—121.

Eichorn, Robert N., to International Business Machines Corp. Carton slitter and forming machine. 3,015,197, 1–2–62, Cl. 53—208.

Eichorn, Robert N., and R. G. Dexter, to International Business Machines Corp. Carton forming and card packaging machine. 3,041,804, 7–3–62, Cl. 53—124.

Eichorn, Roger H.: *See*—
Eichler, Rolf W., Eichorn, and Rutkus. 3,062,533.

Eichorst, Herman H. Outdoor washstand. 3,018,490, 1–30–62, Cl. 4—170.

Eichstadt, Elmer C. Removable and reversible vehicle tailgate mounting. 3,027,188, 3–27–62, Cl. 296—51.

Eickemeyer, Daniel B., and E. B. Ovist, to Sinclair Refining Co. Ester based lubricant composition containing phenothiazine and aminoquinoline. 3,038,859, 6–12–62, Cl. 252—47.

Eickemeyer, Rudolf: *See*—
Tchmidt, Josef, Schneider, Thiersch, Knappstein, Stuhrmann, Eickemeyer, and Voll. 3,054,728.

Eickhoff, Hans-Jurgen, to Siemens and Halske Aktiengesellschaft. Filter arrangement for very short electro-magnetic waves. 3,069,635, 12–18–62, Cl. 333—9.

Eickhoff, Henry: *See*—
Sisson, Gilbert E., and Eickhoff. 3,026,053.

Eickmann, Karl. Sealing arrangement between relatively rotating parts in hydraulic and pneumatic motors, internal combustion engines and the like. 3,070,377, 12–25–62, Cl. 277—74.

Eidam, Arthur E., to De-Tec-Tronic Corp. Magnetic detector. 3,069,601, 12–18–62, Cl. 317—149.

Eiden, Leo W., S. C. Rustad, and P. Smirnow, to General Mills, Inc. Dough packaging apparatus. 3,022,616, 2–27–62, Cl. 53—56.

Eiden, Murlyn J., to Niagara Therapy Mfg. Corp. Therapeutic massage cushions. 3,019,784, 2–6–62, Cl. 128—33.

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Eidensohn, Samuel, to The Electric Storage Battery Co. Fuel cell system. 3,057,946, 10–9–62, Cl. 136—86.

Eidlin, Isaak. Separator for a cooking utensil. 3,068,779, 12–18–62, Cl. 99—416.

Eifert, Robert L., and B. M. Marks, to E. I. du Pont de Nemours and Co. Process for polymerizing acrolein and α-substituted acrolein. 3,054,774, 9–18–62, Cl. 260—67.

Eifrid, Stephen L. Reel assembly and method of constructing same. 3,059,763, 10–23–62, Cl. 206—59.

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Eigen, David: *See*—
Peer, Robert W., and Eigen. 3,047,799.
Peer, Robert W., and Eigen. 3,047,804.

Eigen, David, to The Okonite Co. Corona-testing of electric insulation. 3,015,774, 1–2–62, Cl. 324—54.

Eigen, David, to The Okonite Co. Corona-testing of the insulation of electric cables. 3,047,800, 7–31–62, Cl. 324—54.

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Eigen, Edward: *See*—
Freedman, Louis, Merritt, and Eigen. 3,068,148.

Eiholzer, Theodor, to Aufzuge A.G. Device for keeping a wing of a door open at a certain angle of aperture. 3,030,653, 4–24–62, Cl. 16—82.

Eikenberry, Willis M., to The Gamewell Co. Traffic signal adapter. 3,049,614, 8–14–62, Cl. 240—41.3.

Eikermann, Han: *See*—
Klenk, Ernst, Debuch, Eikermann, and Lappe. 3,031,478.

Eiland, Phillip F., Jr., to HRB-Singer, Inc. Angle-of-attack determining device. 3,069,906, 12–25–62, Cl. 73—180.

Eiland, Phillip F., Jr., and J. H. McGinley, to HRB-Singer, Inc. Device for measuring supersonic and subsonic speeds. 3,043,142, 7–10–62, Cl. 73—212.

Eilenberg, Jack. Warmer for outer coat. 3,034,133, 5–15–62, Cl. 2—97.

Eiler, Harold, to The Pierce Governor Co., Inc. Mixture control for internal combustion engine. 3,040,181, 6–19–62, Cl. 200—82.

Eiler, Peter. Travelling wall crane. 3,050,195, 8–21–62, Cl. 212—17.

Eilerman, George E., Pittsburgh Plate Glass Co. Glass fiber surface treatment. 3,019,122, 1–30–62, Cl. 106—287.

Eilerman, George E., to Pittsburgh Plate Glass Co. Glass fiber treatment. 3,025,588, 3–20–62, Cl. 28—74.

Eilers, Carl G., to Zenith Radio Corp. Dual channel frequency-modulation receiver. 3,070,662, 12–25–62, Cl. 179—15.

Eilers, Carl G., M. C. Hendrickson, and R. C. Herrmann, to Zenith Radio Corp. Computer and a method of computing. 3,023,370, 2–27–62, Cl. 178—5.1.

Eilers, Carl J.: *See*—
Larson, John I., Mohr, Eilers, and Logemann. 3,065,974.

Eilers, Ervin F. Ice-fishing device. 3,056,272, 10–2–62, Cl. 62—5.

Eilers, Howard F., to Paper Calmenson & Co. Surface hardening for hammermill hammers. 3,045,934, 7–24–62, Cl. 241—197.

Eilers, Louis H., to The Dow Chemical Co. Method of treating earth formations which are penetrated by a well bore. 3,044,550, 7–17–62, Cl. 166—42.

Eilers, Melvin E.: *See*—
La Bash, John, Jr., and Eilers. 3,035,474.

Eilo, Clyde W., to Hercules Powder Co. Waterproof container and closure therefor. 3,049,079, 8–14–62, Cl. 102—24.

Eilo, Clyde W., and J. W. Ott, to Hercules Powder Co. Blasting apparatus. 3,055,299, 9–25–62, Cl. 102—25.

Eimco Corp., The: *See*—
Brown, James D. 3,058,451.
Brown, James D., and Hanson. 3,019,378.
Brown, James D., and Hoen. 3,025,673.
Chapman, Harry V. 3,048,052.
Davis, Steven S. 3,069,921.
Hackett, Theodore N., and Puhlmann. 3,045,845.
Hackett, Theodore N., Raven, and Schwartz. 3,034,821.
Hendrickson, Donald E., Brown, Schwartz, and Utz. 3,030,713.
Schwartz, Daniel M. 3,015,397.
Schwartz, Daniel M. 3,021,022.
Schwartz, Daniel M. 3,042,169.
Schwartz, Daniel M., and Hackett. 3,034,820.
Schwartz, Daniel M., and Hackett. 3,070,245.
Schwartz, Daniel M., and Hendrickson. 3,055,489.
Schwartz, Daniel M., Hendrickson, and Brown. 3,040,918.
Schwartz, Daniel M., and Martin. 3,064,781.

Einfalt, Alfred, to Einfalt Blechspielwarenfabrik, Gebruder. Toy railroads. 3,052,059, 9–4–62, Cl. 46—40.

Einfalt, Alfred, to Gebruder Einfalt Blechspielwarenfabrik. Toy runways. 3,065,713, 11–27–62, Cl. 104—67.
Einfalt Biechspielwarenfabrik, Gebruder : *See*—
Einfalt, Alfred. 3,052,059.
Einfalt, Alfred. 3,065,713.
Einhiple, John A., to National Gypsum Co. Continuous web perforating machine. 3,066,542, 12–4–62, Cl. 74—86.
Einhorn, Clarence M., to Armour and Co. Container. 3,051,-367, 8–28–62, Cl. 229—14.
Einsel, Robert P. : *See*—
Barnett, Glenroy W., and Einsel. 3,066,562.
Einsele, Arnold, R. Pratsch, and E. Slamecka, to Siemens-Schuckertwerke Aktiengesellschaft. Circuit-breaker testing arrangement. 3,038,116, 6–5–62, Cl. 324—28.
Einsele, Theodor E., to International Business Machines Corp. Control chain. 3,059,226, 10–16–62, Cl. 340—174.
Einson-Freeman Co., Inc. : *See*—
Scherotto, John. 3,059,362.
Einstein, Peter A. : *See*—
Heinz, Michael E., and Einstein. 3,051,860.
Eisaman, Leo C., and D. L. Tobias, to General Dynamics Corp. Addition circuit for step and continuous functions. 3,015,-790, 1–2–62, Cl. 333—81.
Eisbein, Walter T. E., and K. K. Moser, to Develop Kommanditgesellschaft für. Eisbein & Co. Contact copying apparatus. 3,069,990, 12–25–62, Cl. 95—75.
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Eisele, Andrew. Shaft-and-mount concentricity gauge. 3,040,-436, 6–26–62, Cl. 33—174.
Eisele, Julius, W. Federkiel, C. Schuster, R. Gehm, A. Tartter, F. Graser, W. Rohland, and E. Stoeckl, to Badische Anilin- & Soda Fabrik Aktiengesellschaft. Phthalocyanine dyestuffs. 3,037,030, 5–29–62, Cl. 260—314.5.
Eisele, Karl : *See*—
Janssen, Peter J. H., Smeulers, and Eisele. 3,061,674.
Eisele, Karl L., and G. Foster, to North American Philips Co., Inc. Television receiver having a tuning indication. 3,056,927, 10–2–62, Cl. 325—399.
Eisele, William R. Auxiliary electrical heating means. 3,025,382, 3–13–62, Cl. 219—39.
Eiselstein, Herbert L., to The International Nickel Co., Inc. Age-hardenable nickel alloy. 3,046,108, 7–24–62, Cl. 75—171.
Eisemann, Alexander, Jr., to Chemtrol Corp. Return mailing envelope. 3,067,927, 12–11–62, Cl. 229—73.
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Eisenberg, Bernard C. Hoists. 3,016,151, 1–9–62, Cl. 212—135.
Eisenberg, Bernard C. Releasable tool for clicker die press. 3,045 521, 7–24–62 Cl. 83—532.
Eisenberg, David J., and T. Mauthner, to Nelson Chemicals Co. Process of making sodium metasilicate. 3,020,125, 2–6–62, Cl. 23—110.
Eisenberg, Robert M. : *See*—
Jamieson, William P., and Eisenberg. 3,066,424.
Eisenberg, Robert M., to ACF Industries, Inc. Control force simulation. 3,023,516, 3–6–62, Cl. 35—12.
Eisenberg, Robert M., to ACF Industries, Inc. Simulator. 3,023,517, 3–6–62, Cl. 35—12.
Eisenberg, Robert M., to ACF Industries, Inc. Automatic pilot ejection system simulator. 3,026,632, 3–27–62, Cl. 35—12.
Eisenbraun, Allan A., to Ogilvie Flour Mills Co., Ltd. Separation of amino acids by ion exclusion. 3,045,026, 7–17–62, Cl. 260—326.3.
Eisenburger, Kuno, H. Gott, and J. Ritter, to Eng. Entwicklungs-u. Verwertungs-Gesellschaft G.m.b.H. Process and apparatus for the production of integral reinforcing structures for reinforced concrete and the like. 3,056,883, 10–2–62, Cl. 219—79.
Eisendrath, David C., to Cory Corp. Dehumidifier control having collected-condensate responsive means. 3,044,272, 7–17–62, Cl. 62—176.
Eisendrath, David C., and H. R. Karlen, to Cory Corp. Decanter and pouring spout. 3,059,822, 10–23–62, Cl. 222—566.
Eisenhardt, Karl J. : *See*—
Everett, John W. 3,040,933.
Eisenhart, Robert D. : *See*—
Bergman, Burton K., Eisenhart, Opsahl, and Wood. 3,051,280.
Eisenhauer, Roy J. : *See*—
Gaynor, James W., and Eisenhauer. 3,024,193.
Eisenhuth, Joseph J. : *See*—
McCormick, Barnes W., Eisenhuth, and Wislicenus. 3,050,024.
Eisenkraft, Bernard J. Spray process equipment. 3,038,532, 6–12–62, Cl. 159—4.
Eisenlohr, Douglas H. : *See*—
Benner, Floyd E., Jr., Eisenlohr, and Reich. 3,059,035.
Eisenman, George, D. O. Rudin, and J. U. Casby, to Commonwealth Mental Health Research Foundation. Glass electrode for measuring potassium ion. 3,041,252, 6–26–62, Cl. 204—1.
Eisenman, Herbert C., to Minnesota Mining and Mfg. Co. Tape roll guide. 3,025,018, 3–13–62, Cl. 242—76.
Eisenmann, John H. : *See*—
Gonzalez, Frank H., and Eisenmann. 3,037,447.
Eisenmann, John L. : *See*—
McRae, Wayne A., and Eisenmann. 3,024,275.
Eisenmann, John L., to Diamond Alkali Co. Process of making hydroxy ester compounds. 3,028,417, 4–3–62, Cl. 260—484.
Eisenmenger, Friedrich, to F. Eisenmenger. Process and apparatus for the continuous heat treating of elongated material. 3,036,825, 5–29–62, Cl. 266—4.
Eisenmeyer, Joseph S. : *See*—
Rose, Alan, Eisenmeyer, and Rakofsky. 3,019,389.
Eisenstein, Abraham. Telephone accessory. 3,052,056, 9–4–62, Cl. 45—.5.
Eisenwerk Rothe Erde G.m.b.H. : *See*—
Pohler, Heinz. 3,030,158.
Eisenwerk Wanheim G.m.b.H., Firma : *See*—
Vanwersch, Aloys, P., and L. 3,018,126.
Eisert, Lloyd L. Harvesting machine. 3,043,427, 7–10–62, Cl. 209—26.
Eisler, Arthur J. : *See*—
Batty, Harry A., Eisler, and Ellington. 3,049,152.
Eisler, Hans, to Licentia Patent-Verwaltungs-G.m.b.H. Electric motor with high starting torque. 3,058,019, 10–9–62, Cl. 310—164.
Eisler, Paul. Electrical heating and conducting devices 3,020,378, 2–6–62, Cl. 219—19.
Eisler, Paul. Laminates of insulating material embodying electrically conductive patterns and method and apparatus for producing same. 3,026,234, 3–20–62, Cl. 156—257.
Eisler, Paul. Electric conductor strips. 3,033,970, 5–8–62. Cl. 219—46.
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Eisner, Albert M. : *See*—
Adams, Myron D., Johnson, Chojnowski, Eisner, Elich, and Glick. 3,057,956.
Eisner, Burton D., J. A. Swimmer, and M. L. Sugarman, Jr., to American Photocopy Equipment Co. Office laminating machine. 3,027,285, 3–27–62, Cl. 156—359.
Eisses, Jacob A. : *See*—
Deenik, Johan F., and Eisses. 3,067,947.
Eisses, Jacob A. Grade crossing. 3,056,555, 10–2–62, Cl. 238—8.
Eissmann, Kurt W., and P. V. Shade, to General Electric Co. Potential device. 3,059,172, 10–16–62, Cl. 323—61.
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Eissmann, Oswald E., and H. G. Krohne, to American Machine & Foundry Co. Article conveying mechanism. 3,042,-454, 7–3–62, Cl. 302—2.
Eitel, Jay M., Pile stringing apparatus and method. 3,018,-998, 1–30–62, Cl. 254—134.3.
Eitel, Jay M., to Los Altos Engineering Co. Lifting equipment. 3,055,459, 9–25–62, Cl. 189—11.
Eitel, Jay M. Insulated control mechanism and system. 3,056,867, 10–2–62, Cl. 200—81.
Eitel-McCullough, Inc. : *See*—
Chin, David D., and Grisell. 3,042,893.
Chin, David D., Lazzarini, and Goldfinger. 3,044,027.
Culbertson, Robert D., McRae, and Noble. 3,031,740.
Ferry, Wilbur V., Helley, and Taylor. 3,070,721.
Foote, Willis B., and Kendall. 3,028,516.
Haegele, Rowland W., Heil, and Turnblom. 3,043,985.
Haegele, Rowland W., and McLaughlin. 3,045,146.
Lee, Terry G., and Sievers. 3,070,725.
Proskauer, Walter. 3,029,776.
Proskauer, Walter. 3,059,215.
Eiter, Karl, and E. Truscheit, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of 2-cis-β-ionylidene acetic acid. 3,017,432, 1–16–62, Cl. 260—514.
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Ejectoret S.A., and Pako, Etablissement : *See*—
Grisel, Yvan V. 3,032,180.
Ek, Gayne R., to Collins Radio Co. Automatic noise limiter circuit. 3,064,197, 11–13–62, Cl. 325—474.
Ekar, Albert F. : *See*—
Miller, Floyd F., and Ekar. 3,058,971.

Ekco Containers, Inc.: *See*—
Logemann, George H., and Georgeoff. 3,064,407.
Phillips, Harry, and Maciejowski. 3,027,989.
Phillips, Harry, Maciejowski, Shafer, Tucker, and Fuller. 3,018,594.
Ekco Products Co.: *See*—
Blackmer, Dwight W. 3,022,537.
Blackmer, Dwight W. 3,060,489.
Du Four, Ernest E. 3,065,985.
Frei, John, and Haase. 3,018,122.
Hoffman, Alfred R. 3,019,912.
Lewis, Oswald. 3,066,045.
Paige, Richard E. 3,018,076
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Ekedahl, John C., and J. H. Veale, to Illinois Clay Products Co. Tar-bonded magnesia brick and method. 3,044,889. 7–17–62, Cl. 106—58.
Eketorp, Sven G. H., S. H. Backstrom, and B. M. Kalling, to Stora Kopparbergs Bergslags Aktiebolag. Rotary furnace with tubular heat exchanger and method for heat exchange. 3,039,733, 6–19–62, Cl. 263—32.
Ekkers, Gysbert J., to Patelhold Patentverwertungs- & Elektro-Holding A.-G. Electron tube. 3,045,142, 7–17–62, Cl. 313—251.
Ekkers, Gysbert J., and A. Patriarca, to Patelhold Patentverwertungs- & Elektro-Holding A.G. Gaseous electric discharge tube. 3,021,446, 2–13–62, Cl. 313—204.
Eklov, David. Device for the protection of electrical apparatus against excess voltage. 3,015,781, 1–2–62, Cl. 330—15.
Eklöv, David, to Svenska Relafabriken Abn Ab. Telephone apparatus. 3,027,428, 3–27–62, Cl. 179—81.
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Eklund, Anders J.: *See*—
Aspegren, Olof E. A., and Eklund. 3,025,223.
Eklund, Elias N., and P. Aldrin, to ABEN Eklunds Mekaniska Verkstad. Machine-tool vises. 3,033,560, 5–8–62, Cl. 269—240.
Eklund, Elias N., and P. Aldrin, to AB E.N. Eklunds Mekaniska Verkstad. Machine-tool vises. 3,054,610, 9–18–62, Cl. 269—78.
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Eklunds, E. N., Mekaniska Verkstad, AB: *See*—
Eklund, Elian N., and Aldrin. 3,054,610.
Ekstrom, Kenneth A. Meter adapted. 3,061,763, 10–30–62, Cl. 317—11.
Ekstrom, Paul R. Mechanic's hammer. 3,042,092, 7–3–62, Cl. 145—36.
Ekstrom, Raymond M.: *See*—
Szemplak, Jerome C., Ekstrom, Von Uffel, Horley, and Wood. 3,051,965.
Elam, Edward U.: *See*—
Martin, James C., and Elam. 3,038,884.
Elam, Edward U., R. H. Hasek, and J. C. Martin, to Eastman Kodak Co. Tetraalkylcyclobutane-1,3-diamines and resinous polyamides therefrom. 3,017,395, 1–16–62, Cl. 260—78.
Elam, William B.: *See*—
Pottle, Ralph K., and Elam. 3,021,047.
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Elam, William B., to American Can Co. Dispensing container. 3,051,357, 8–28–62, Cl. 222—480.
Elam, William B., to American Can Co. Container side seam. 3,070,274, 12–25–62, Cl. 229—4.5.
Eland, Robert C. A., to Standard Coil Products Co. Inc. Turret tuner with flat spiral coils. 3,066,270, 11–27–62, Cl. 334—50.
Elastic Aktiengesellschaft vormals M. Vogel A.G.: *See*—
Koennecke, Wolfgang. 3,017,636.
Elastic Stop Nut Corp. of America: *See*—
Baubles, Richard C. 3,069,941.
Baubles, Richard C. 3,069,960.
Baubles, Richard C. 3,069,961.
Mills, Malcolm E. 3,020,946.
Troccoli, Arthur M. 3,061,259.
Elba-Werk Ettlinger Baumaschinen- und Hebezeugfabrik G.m.b.H., Fa.: *See*—
Maier, Hartmut W., Schuchardt, and Kuehner. 3,025,980.
Elbaum, Jerome K., and E. L. Wagoner, to Union Carbide Corp. Wear-resistant alloy. 3,068,096, 12–11–62, Cl. 75—171.
Elberfeld Mfg. Co., Inc.: *See*—
Kuhlenschmidt, Harold L. and F. E., and Arthur and Arnold Geiselman. 3,051,323.
Elbert, Roland B., and I. L. Moritz. Portable stock warmer. 3,041,441, 6–26–62, Cl. 219—46.
Elbinger, Lewis P., to United States of America, Army. MTI radars employing pulse interval modulation ambiguity elimination. 3,066,289, 11–27–62, Cl. 343—7.7.
Elbling, Irving M., to Westinghouse Electric Corp. Pulverulent coating compositions adapted for use in fluidizing processes containing epoxy resin and fillers. 3,039,987, 6–19–62. Cl. 260—37.
Elbreder, Charles H.: *See*—
Ross, Edward J., and Elbreder. 3,037,837.
Elbreder, Charles H., and E. J. Ross. Salt water shrimp hatching tablet composition and method. 3,029,784, 4–17–62, Cl. 119—2.
Elcor, Inc.: *See*—
Reaves, John H., and Walton. 3,046,489.
Walton, John F. 3,047,814.
Eld, Aksel C., and W. R. Lehrian, to Gulf Oil Corp. Bubble cap assemblies and bubble towers embodying the same. 3,027,145, 3–27–62, Cl. 261—114.
Eld, Aksel C., and W. R. Lehrian, to Gulf Oil Corp. Vapor-liquid contacting apparatus. 3,055,646, 9–25–62, Cl. 261—114.
Elden, Alvin P., to The Frederick-Willys Co., Inc. Game table bed leveler. 3,030,729, 4–24–62, Cl. 45—139.
Elder, Boyd B., and N. E. Pontecorvo, to Cheese Molding Machine Co., and Primary Mold and Machine Co. Method and apparatus for processing cheese of the mozzarella type. 3,041,153, 6–26–62, Cl. 31—89.
Elder, Boyd B., and R. A. Wilmot, to Del Mar Engineering Laboratories. Aircraft tow target installation. 3,049,-319, 8–14–62, Cl. 244—2.
Elder, George W. Hydraulic seismometer. 3,023,612, 3–6–62, Cl. 73—71.2.
Elder, Henry W.: *See*—
Potts, John M., Elder, and Anderson. 3,022,154.
Elder, James T., C. R. Bieling, and A. E. Blakeslee, to The New Jersey Zinc Co. Photoconductive zinc oxide pigment. 3,060,134, 10–23–62, Cl. 252—501.
Elder, Lorne C., to Associated Spring Corp. Connector for metal strips. 3,016,994, 1–16–62, Cl. 189—36.
Elder, Wayne L., to Ion Beam Inc. Solution administration device and method of forming the same. 3,030,952, 4–24–62, Cl. 128—214.
Elder's Trustee and Executor Co. Ltd.: *See*—
Lewis, Donald T. 3,064,650.
Elderton, Gordon E. Garland making apparatus. 3,049,157, 8–14–62, Cl. 140—149.
Eldon Industries, Inc.: *See*—
Cagan, Bernard J., Ziroli, and Harestad. 3,037,750.
Knowles, Alvis R. 3,048,687.
Pullen, Eric V. 3,046,697.
Eldorado Electronics Co.: *See*—
Hupp, Ross E. 3,064,889.
Eldorado Mining and Refining Ltd.: *See*—
Forward, Frank A., and Warren. 3,042,486.
El Dorado Poultry-By-Products Co.: *See*—
Brown, William D., and Waller. Re. 25,138.
Eldred, John W. Article handling apparatus. 3,034,822. 5–15–62, Cl. 294—88.
Eldred, Raymond D. E., and S. E. Frampton, to United Shoe Machinery Corp. Sole molding machines. 3,058,152, 10–16–62. Cl. 18—17.
Eldredge, Donald L., to General Electric Co. Transmission line windows. 3,058,073, 10–9–62, Cl. 333—98.
Eldridge, Arthur C., A. M. Nash, and A. K. Smith, to United States of America, Agriculture. Soybean whey protein-polysaccharide complex. 3,069,327, 12–18–62, Cl. 195—63.
Eldridge, Donald F., and E. D. Daniel, to Ampex Corp. Magnetic record head assembly. 3,070,670, 12–25–62, Cl. 179—100.2.
Eldridge, Frederick J. and W. F. Post driver. 3,026,949, 3–27–62, Cl. 175—153.
Eldridge, Walter F.: *See*—
Eldridge, Frederick J. and W. F. 3,026,949.
Electrada Corp., The: *See*—
Ambrosio, Biagio F., and Rutland. 3,016,423.
Cummings, Francis M., Fleming, and Matson. 3,046,480.
Electralab Printed Electronics Corp.: *See*—
Franklin, John B., and Vallance. 3,020,219.
Electrarc, Inc.: *See*—
Briggs, Rufus L. 3,040,946.
Electric Auto-Lite Co., The: *See*—
Naborowski, John G. 3,016,477.
Wetzel, William C. 3,041,601.
Electric Eye Equipment Co.: *See*—
Batterman, Theodore W., and Pebog. 3,046,864.
Watt, Robert E., and Deeken. 3,017,062.
Electric Furnace Co., The: *See*—
Kerr, Elmer L., Cope, and Pettit. 3,053,969.
Kerr, Elmer L., and Mathews. 3,058,840.
Vaughan, Arthur H., and Kerr. 3,068,586.
Electric Indicator Co., Inc., The: *See*—
Ely, Robert S. 3,064,375.
Electric Machinery Mfg. Co.: *See*—
Schlicher, David W. 3,061,747.
Electric & Musical Industries Ltd.: *See*—
Ansell, Sidney C., Booth, Brown, Franklin, and Rayward. 3,056,916.
Barford, Norman C. 3,042,831.
Barnes, Harold E. 3,064,150.
Booth, Richard H., and MacDonald. 3,042,307.
Booth, Richard H., and Spencer. 3,033,458.
Cassman, Harry. 3,023,131.
Cassman, Harry, and Lubszynski. 3,027,478.
Charman, Frederick J. H. 3,056,130.
Colborne, Ronald H., and Murphy. 3,023,137.
Cole, Roy S., and Honeyman. 3,020,501.
Hall, Philip M., and Bamford. 3,059,870.
Harrison, Henry M. 3,060,279.
Hosking, William J. C., and Barr. 3,039,554.
James, Ivanhoe J. P., and Newton. 3,017,454.
James, Ivanhoe J. P., and Perkins. 3,030,437.

Electrical & Mineral Industries Ltd.: *See*—Continued
Jarrett, John J. 3,065,405.
Kramskoy, Charles M. 3,033,456.
Kramskoy, Charles M. 3,069,658.
Lubszynski, Hans G. 3,015,746.
Newton, George C. 3,068,767.
Percival, William S. 3,055,980.
Percival, William S. 3,059,053.
Perkins, Denis G. 3,019,290.
Robinson, Nigel D. 3,059,851.
Spencer, Rolf E. 3,021,975.
Spencer, Rolf E. 3,026,040.
Stillwell, Peter F. T. C. 3,050,724.
Taylor, Eric W., and Kent. 3,066,187.
Thomson, Ernest E., Green, and Holton. 3,039,016.
Udall, Anthony J. S. 3,022,953.
Udall, Anthony J. S. 3,040,988.
Voles, Roger. 3,065,912.
Watson, George R., Perkins, and James. 3,017,455.
White, Eric L. C. 3,034,120.
Electric Regulator Corp.: *See*—
May, Richard D. 3,042,768.
Electric Steel Foundry Co.: *See*—
Dils, Eugene W., Jr. 3,032,901.
Electric Storage Battery Co., The: *See*—
Anderson, George M., and Jaffe. 3,058,046.
Cahan, Boris D. 3,017,448.
Consolloy, James W. 3,051,514.
Dermody, William F., and Meltzer. 3,062,760.
Donohue, Walter A. 3,053,925.
Duddy, Joseph C. 3,033,911.
Duddy, Joseph C. 3,067,273.
Eberhart, Gerald W. 3,042,928.
Eidensohn, Samuel. 3,057,946.
Floyd, James K. 3,017,570.
Floyd, James K. 3,044,023.
Gongoll, Vernon F. 3,030,458.
Grieger, Philip F. 3,022,363.
Grieger, Philip F., and Evans. 3,037,066.
Grieger, Philip F., and Fleischer. 3,051,831.
Gring, Paul A., Jr. 3,037,313.
Gurtowski, Francis J. 3,041,622.
Heinsohn, Henry G., and Kondell. 3,067,274.
Hoffmaster, George R., Gangoll, Herbine, and Bohner. 3,060,444.
Kerns, Fred R. 3,032,795.
Kerns, Fred R. 3,052,968.
Kopper, Edward C. 3,050,776.
Kujas, Eric F. 3,051,768.
Oestermeyer, Carl F., Raney, Koenig, and Havlick. 3,036,140.
Paulson, John W. 3,060,256.
Reutschi, Paul. 3,062,909.
Rhoades, Nolan K. 3,053,978.
Riggs, Harold C. 3,062,229.
Rinnovatore, James V., and Laws. 3,057,945.
Ruetschi, Paul. 3,020,327.
Ruetschi, Paul, Cahan, and Herbert. 3,057,944.
Salkind, Alvin J. 3,062,908.
Simpson, Jack N. 3,039,099.
Smith, William W., and Strauss. 3,057,942.
Sockel, William G., and Gongoll. 3,052,887.
Solomon, Leroy E. 3,067,275.
Strauss, Howard J. 3,057,943.
Strauss, Howard J., and White. 3,053,924.
Torgerson, Arnold T. 3,065,337.
Wahlin, Harold V. 3,069,754.
Electric Techniques Corp., N.V.: *See*—
Herbert, Denuta, and Ulam. 3,043,896.
Electrical Utilities Co.: *See*—
Preiser, Ralph H., McNally, and Kotowski. 3,023,268.
Electricite de France, Service National: *See*—
Delpoux, Albert. 3,042,921.
Marlot, Raoul. 3,067,941.
Electro-Acid Corp.: *See*—
Toce, Charles A., and Broussard. 3,061,662.
Electroacustic G.m.b.H.: *See*—
Ahrens, Erhard, Schultes, Mies, and Kriebel. 3,045,206.
Electro-Char Corp.: *See*—
Savio, Joseph. 3,022,410.
Electro-Chem Fiber Seal Corp.: *See*—
Pattilloch, Donald K. 3,016,325.
Pattilloch, Donald K. 3,027,295.
Pattilloch, Donald K. 3,060,079.
Pattilloch, Donald K., and Polowczyk. 3,022,213.
Electro Chemical Engineering & Mfg. Co.: *See*—
Rutter, William H. 3,056,591.
Electro Development Corp.: *See*—
Glaser, Raymond A., Strauss, and Weinstein. 3,062,057.
Electro Dispersion Corp.: *See*—
Rhodes, Ignace, and Schotland. 3,065,106.
Electrofilm, Inc.: *See*—
Heath, Arthur N., and Horwedel. 3,051,586.
Electroglas, Inc.: *See*—
Lasch, Cecil A., Jr., and Johnson. 3,050,617.
Electro-Hydraulics Ltd.: *See*—
Hancock, Kenneth G., and Bruce. 3,060,689.
Hancock, Kenneth G., and Bruce. 3,060,967.
Phillips, Reginald A. 3,068,650.
Electrokinetics Corp.: *See*—
Fajans, Jack. 3,063,332.
Electrol Inc.: *See*—
Ashton, Benjamin N. 3,015,311.
Electrolier Mfg. Co. Ltd.: *See*—
Relich, Milenko. 3,070,691.
Electrolube Ltd.: *See*—
Kingsbury, Henry E. R. 3,066,834.
Electrolux, Aktiebolaget: *See*—
Brimberg, Torsten, and Tiidt. 3,031,826.
Carlberg, Erik R. 3,040,364.
Descarries, Raymond. 3,015,123.
Descarries, Raymond. 3,016,982.
Descarries, Raymond. 3,020,573.
Descarries, Raymond. 3,021,028.
Descarries, Raymond. 3,022,101.
Descarries, Raymond. 3,031,031.
Descarries, Raymond. 3,031,637.
Descarries, Raymond. 3,048,877.
Gaudry, Edouard. 3,031,129.
Gaudry, Paul E. 3,023,838.
Gaudry, Paul E. 3,027,475.
Hellstrom, Gosta L. 3,040,367.
Jodell, Georg E., Lindstrom, and Ysberg. 3,027,040.
Kogel, Wilhelm G. 3,020,725.
Lantz, Kurt D. 3,060,946.
Lashta, Peter. 3,049,367.
Lundstedt, Bror C. A. 3,060,947.
Lundstedt, Bror C. A. 3,060,948.
Nilsson, Nils H. 3,040,368.
Ohlson, Bengt E. 3,048,960.
Electrolux Corp.: *See*—
Allen, Oliver L., Ferraris, and Lampe. 3,046,586.
Allenby, William F., and Lofgren. 3,017,654.
Anderson, Emil. 3,032,800.
Anderson, Emil, and Kowalewski. 3,052,588.
Bartos, John, Borkoskoi, Doughman, Ferraris, and Moughty. 3,047,897.
Belicka, Michael E., Borkoski, and Doughman. 3,039,130.
Belicka, Michael E., Borkoski, and Ferraris. 3,039,129.
Bell, Raymond M., Gooding, Wellman, and McDevitt. 3,045,560.
Electromagnetic Research Corp.: *See*—
Katzin, Martin. 3,030,500.
Electro-Measurements, Inc.: *See*—
Morgan, Merle L. 3,044,706.
Smith, Otto J. M. 3,060,378.
Electro Mechanical Instrument Co.: *See*—
Dinlocker, Robert I. 3,030,615.
Dinlocker, Robert I. 3,045,478.
Electro-Mechanical Research, Inc.: *See*—
Fleming, Howard M., Jr. 3,045,903.
Lewinstein, Marcus, and Harries. 3,054,050.
Lewinstein, Marcus. 3,020,477.
Ratz, Alfred G. 3,035,228.
Ratz, Alfred G. 3,055,589.
Runyan, Raymond A. 3,017,616.
Swain, William H. 3,023,377.
Swain, William H. 3,025,477.
Westneat, Arthur S., Jr. 3,061,802.
Electrometallurgique de Montbrison, Societe: *See*—
Pruvot, Emile, Laparra, and Lugagne. 3,034,886.
Electro-Optical Systems, Inc.: *See*—
Wright, William V., Jr. 3,049,685.
Electro Refractories & Abrasives Corp.: *See*—
Robie, Norman P. 3,048,493.
Electro-Solid Controls, Inc.: *See*—
Biltz, Francis J. 3,047,825
Electrosolids Corp.: *See*—
Ingman, Thomas M. 3,041,472.
Moore, Donald W. 3,050,674.
Electro-Sonic Laboratories, Inc.: *See*—
McConnell, John H. 3,043,920.
Electrostar G.m.b.H.: *See*—
Hanschitz, Rudolf. 3,051,856.
Electro Tec Corp.: *See*—
Filipczak, Peter A. 3,066,386.
Electrotechnische Industrie Voorheen Willem Smit & Co., N.V.: *See*—
Den Ouden, Wouter. 3,047,786.
Electrothermal Engineering Ltd.: *See*—
Goldstaub, Henry H., and Wright. 3,036,187.
Electro-Voice, Inc.: *See*—
Dreiske, Erwin J. 3,064,188.
Grover, George A. 3,056,861.
Hoodwin, Louis S. 3,016,430.
Wirth, John L. 3,061,676.
Wood, John F. 3,056,869.
Wood, John F. 3,056,932.
Wood, John F. 3,057,971.
Wood, John F. 3,060,280.
Wood, John F., and Wirth. 3,046,481.
Electronatom Corp.: *See*—
De Seversky, Alexander P. 3,053,029.
Electronic Aids, Inc.: *See*—
Tischler, Morris. 3,018,568.
Electronic Associates, Inc.: *See*—
Gorrell, John E. 3,024,078.
Gorrell, John E., and Leavens. 3,066,301.
Hamer, Howard. 3,032,745.
Electronic Associates Ltd.: *See*—
Leaver, Eric W., and Mounce. 3,038,606.
Mounce, George R., and Rivell. 3,050,242.
Electronic Cover-Lite Corp.: *See*—
Fleishman, Charles H., and Ross. 3,025,662.

Electronic Engineering Co. of California : *See*—
Temple, Foy J., and Burson. 3,031,655.
Electronic Instruments Co., Inc. : *See*—
Prohaska, Raymond J. 3,033,508.
Electronic Oil Well Heater, Inc. : *See*—
Spitz, Samuel. 3,026,940.
Electronic Products Co. : *See*—
Achtelik, Gerald J., and Constable. 3,065,349.
Electronic Secretary Industries, Inc. : *See*—
Zimmermann, Joseph J. 3,047,663.
Zimmermann, Joseph J. 3,050,585.
Zimmermann, Joseph J. 3,067,289.
Electronic Specialties Co. : *See*—
Cole, Raymond S. 3,053,105.
Lace, Donald A. 3,054,970.
Electronic Specialty Co. : *See*—
Gindroz, Frank H., Jr. 3,037,399.
Electronic Switchgear (London) Ltd. : *See*—
Sproule, Robert A. 3,028,546.
Electronic Training Aids, Inc. : *See*—
Crews, Allen B., and Muskat. 3,043,022.
Electronics Corp. of America : *See*—
Cade, Phillip J. 3,065,279.
Graves, Donald L. 3,064,719.
Thomson, Elihu C. 3,069,552.
Electronics, Inc. : *See*—
Liebscher, Arthur. 3,062,245.
Electronics & Missiles Co. : *See*—
McMurtrey, Atha W., Jr. 3,039,089.
Electron-Machine Corp., The : *See*—
Schwab, William G. 3,036,480.
Elektriska Svetsningaktiebolaget : *See*—
Pfeiffer, Claes F. H. 3,031,343.
Elektro-Bau A.G. : *See*—
Winter, Franz. 3,037,134.
Elektrochemie Turgi : *See*—
Brandli, Ulrich. 3,036,886.
Elektrokemisk A/S. : *See*—
Collin, Fredrik C., and Båsen. 3,033,673.
Erga, Olav and Terjesen. 3,064,408.
Hougen, Leif R. 3,035,992.
Sandberg, Ove H. 3,065,094.
Schmitt, Johannes. 3,052,619.
Sem, Mathias O. 3,024,178.
Elektro-Mechanik-G.m.b.H. : *See*—
Sussebach, Walter. 3,043,405.
Elektro-Mortoren A.G. : *See*—
Jaun, Hermann. 3,019,998.
Jaun, Hermann, and Welter. 3,035,195.
Elektrophysikalische Anstalt Bernhard Berghaus : *See*—
Berghaus, Bernhard, and Bucek. 3,018,409.
Berghaus, Bernhard, and Bucek. 3,035,205.
Elektropodnik Hlavniho Mesta Praby : *See*—
Prochazka, Miroslav. 3,023,610.
Elemelt Ltd. : *See*—
Gell, Philip A. M. 3,030,434.
Elenburg, Cecil L., to W. E. Martin. Earth moving devices. 3,052,049, 9–4–62, Cl. 37—124.
Elenburg, Wayland D. Shock absorber for cable tool drilling rigs. 3,061,272, 10–30–62, Cl. 254—190.
Elettrocarbonium S.p.A. : *See*—
Gemmi, Angiolo. 3,055,789.
Eleuterio, Herbert S., to E. I. du Pont de Nemours and Co. Amorphous copolymers of hexafluoropropylene and tetrafluoroethylene and their preparation. 3,062,793, 11–6–62, Cl. 260—87.5.
Eley, Myrle C. : *See*—
Thorpe, Robert J., and Eley. 3,059,427.
Elfe, August E. : *See*—
Broetzman, Norton O., and Elfe. 3,042,121.
Elfes, Lee E., to Massey-Ferguson Inc. Friction clutch mechanism. 3,018,863, 1–30–62, Cl. 192—48.
Elfes, Lee E., to Massey-Ferguson Inc. Dual clutch. 3,018,864, 1–30–62, Cl. 192—113.
Elfes, Lee E., to Massey-Ferguson Inc. Power take-off drive for tractors. 3,041,884, 7–3–62, Cl. 74—15.86.
Elfgren, Ernest T. Wire wall construction. 3,069,120, 12–18–62, Cl. 245—1.
Elfin, Rodman M. : *See*—
Rubin, Arnold D., and Elfin. 3,055,419.
Elford, Harold F., to Elford Plywood Machinery, Inc. Veneer pressure bar. 3,055,406, 9–25–62, Cl. 144—213.
Elford Plywood Machinery, Inc. : *See*—
Elford, Harold F. 3,055,406.
Elford, William E., and W. Fearon, to National Research Development Corp. Trunk piston engines. 3,058,792, 10–16–62, Cl. 309—7.
Elfstrom, Thomas P. Hobby horse. 3,038,722, 6–12–62, Cl. 272—53.1.
Elfving, Thore M. Mechanically refrigerated railway car. 3,015,220, 1–2–62, Cl. 62—435.
Elgee Products Co., Inc., The : *See*—
Lambert, Herbert, and Giffin. 3,032,003.
Elgen Mfg. Corp. : *See*—
Goldsmith, Morris. 3,017,694.
Goldsmith, Morris, and Stein. 3,017,899.
Speiser, Bruno. Re. 25,153.
Elger, Ronald J., to The Loewy Engineering Co. Ltd. Gripperhead for hydraulic stretching machines. 3,038,520, 6–12–62, Cl. 153—35.

Elgin Metal Casket Co., Inc. : *See*—
Dower, Edward W. 3,065,516.
Dower, Edward W. 3,065,517.
Elgin National Watch Co. : *See*—
Ensign, George G., Soper, and Lundahl. 3,026,734.
Ensign, George G., Soper, and Lundahl. 3,041,819.
Wadsworth, Arthur W. 3,020,703.
Elgin Sweeper Co. : *See*—
Link, Charles T., Jr., and Schmidt. 3,024,892.
Schmidt, Robert F., and Leidecker. 3,024,485.
Schmidt, Robert F., and Leidecker. 3,037,226.
El-Hindi, Ahmad M., to Hoffman International Corp. Filter for liquids containing magnetic sludge. 3,042,211, 7–3–62, Cl. 210—222.
Elhoff, William C., to General Electric Co. Antenna tracking system. 3,042,917, 7–3–62, Cl. 343—117.
Elia, Edward, and H. R. Rasch, to National Steel Corp. Metallic building frame structure. 3,061,978, 11–6–62, Cl. 50—55.
Elias, Charles R. Adjustable boring tool. 3,065,655, 11–27–62, Cl. 77—58.
Elias, Fred, J. and L. Pie cutter. 3,045,347, 7–24–62, Cl. 30—303.
Elias, John : *See*—
Elias, Fred, J. and L. 3,045,347.
Elias, Louis : *See*—
Elias, Fred, J. and L. 3,045,347.
Elias, Robert T., to Minerals & Chemicals Philipp Corp. Process for dewaxing paper and reclaiming cellulosic fiber. 3,055,971, 9–25–62, Cl. 162—4.
Elich, John : *See*—
Adams, Myron D., Johnson, Chojnowski, Eisner, Elich, and Glick. 3,057,956.
"Elin" Aktiengesellschaft für elektrische Industrie : *See*—
Ertl, Walter, and Ptacovsky. 3,033,619.
Elion, Gertrude B. : *See*—
Hitchings, George H., and Elion. 3,056,785.
Hitchings, George H., Elion, and Goodman. 3,050,517.
Hitchings, George H., Elion, and Mackay. 3,019,224.
Elizer, Lee H. : *See*—
Bauer, Jordan V., and Elizer. 3,019,120.
Elizer, Lee H., G. C. Glasscock, and J. M. Seitz, to The Hubinger Co. Cationic, nitrogenated, hydrophilic colloids. 3,051,691, 8–28–62, Cl. 260—91.3.
Elizer, Lee H., G. C. Glasscock, and J. M. Seitz, to The Hubinger Co. Cellulose products and process for making same. 3,051,698, 8–28–62, Cl. 260—212.
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Elizer, Lee H., G. C. Glasscock, and J. M. Seitz, to The Hubinger Co. Cationic, nitrogenated, starch products containing at least 50% of amylose. 3,051,700, 8–28–62, Cl. 260—233.3.
Elkay Mfg. Co. : *See*—
Zelleny, Laddie L., and Buttars. 3,040,338.
Elkin, Harold, to Thiokol Chemical Corp. Foamed polyurethane polymer and method of making same. 3,037,947, 6–5–62, Cl. 260—2.5.
Elkin, Samuel, and F. M. Miller. Indole-carboxylic acid-dialkylamine alkyl esters. 3,047,584, 7–31–62, Cl. 260—319.
Elkington, James E. Conveyor assembly for washing machines. 3,032,170, 5–1–62, Cl. 198—137.
Elkins, Ira D. : *See*—
Goren, Mayer B., and Elkins. 3,041,286.
Elkins, Lloyd E., to Pan American Petroleum Corp. Fracture placing method. 3,050,118, 8–21–62, Cl. 166—35.
Elks, Joseph : *See*—
Barton, Derek H. R., Elks and Bailey. 3,056,809.
Evans, Ronald M., Elks, Hems, Arthur, Oughton, Gregory, Walker, and Hunt. 3,040,034.
Phillipps, Gordon H., Graham, Gregory, and Elks. 3,040,069.
Phillipps, Gordon H., Graham, Gregory, and Elks. 3,040,070.
Ell, George E., to Liberty Mfg. Co. of Texas. Anti-friction sucker rod coupling. 3,049,382, 8–14–62, Cl. 308—4.
Ellaby, Charles H. Storage vessel construction. 3,067,914, 12–11–62, Cl. Cl. 222—227.
Ellam, Frederick, to Ellams Duplicator Co. Ltd. Copying processes. 3,034,428, 5–15–62, Cl. 101—149.5.
Ellam, Patrick. Midget ice boat. 3,026,121, 3–20–62, Cl. 280—16.
Ellams Duplicator Co. Ltd. : *See*—
Ellam, Frederick. 3,034,428.
Ellard, George E., to Westinghouse Air Brake Co. Railway signaling apparatus. 3,054,889, 9–18–62, Cl. 246—33.
Elledge, Martin D. Sensitive drill press. 3,057,230, 10–9–62, Cl. 77—19.
Ellegast, Konrad : *See*—
Peter, Julius, Heidemann, Ellegast, and Juffa. 3,039,297.
Elleman, Earle W. : *See*—
Foss, George J., and Elleman. 3,053,387.
Ellenberger, Jakob, to Ellenberger & Poensgen G.m.b.H. Electric motor starting switch. 3,019,314, 1–30–62, Cl. 200—88.
Ellenberger, Jakob, to Ellenberger & Poensgen G.m.b.H. Push-button operated overload switch. 3,031,542, 4–24–62, Cl. 200—116.

Ellenberger & Poensgen G.m.b.H.: *See*—
Ellenberger, Jakob. 3,019,314.
Ellenberger, Jakob. 3,031,542.
Ellenbogen, Leon, and W. L. Williams, to American Cyanamid Co. Process of recovering intrinsic factor from pyloric mucosa. 3,015,608, 1–2–62, Cl. 167—74.
Ellenbogen, Leon, and S. R. Hawkins, to American Cyanamid Co. Process for preparing augmentative intrinsic factor concentrate. 3,020,204, 2–6–62, Cl. 195—2.
Ellenbogen, Raymond, W. H. Lapides. Seat refacing tool. 3,039,242, 6–19–62, Cl. 51—195.
Ellerbeck, Grant C., to Friden, Inc. Calculating machine cycle initiating mechanism. 3,030,018, 4–17–62, Cl. 235—145.
Ellerbeck, Grant C., to Friden, Inc. Program control mechanism for a square root calculating machine. 3,062,439, 11–6–62, Cl. 238—63.
Ellert, Frederick J., to General Electric Co. Electrical master slave amplifier circuit employing silicon controlled rectifiers. 3,018,383, 1–23–62, Cl. 307—88.5.
Ellert, Henry G., and C. N. Kimberlin, Jr., to Esso Research and Engineering Co. Conversion of paraffins to aromatics. 3,023,157, 2–27–62, Cl. 208—64.
Ellett, Charley H., to Thiokol Chemical Corp. Device for filling containers with liquids. 3,070,137, 12–25–62, Cl. 141—228.
Ellett, James R. Injector for pipe cleaning balls. 3,028,996, 4–10–62, Cl. 221—267.
Ellick, Irene C.: *See*—
Kunkel, Elzy O. 3,031,695.
Elling, Hugo: *See*—
Jaimler, Berthold H., Elling, and Elssner. 3,038,778.
Ellingboe, Ellsworth K.: *See*—
Darby, Robert A., and Ellingboe. 3,069,404.
Ellinger, John H., to Minister of Works, in Her Majesty's Government of the United Kingdom of Great Britain and Northern Ireland. Wave generating mechanism. 3,040,446, 6–26–62, Cl. 35—19.
Ellinger, Karl: *See*—
Schöllkopf, Gottfried, and Ellinger. 3,056,252.
Ellingson, Chester W., Jr.: *See*—
Kapaun, Herbert L., and Ellingson. 3,030,674.
Ellingson, La Verne O., to Quick-N-Easy Products, Ltd. Boat carrying and loading facility for motor vehicles. 3,064,841, 11–20–62. Cl. 214—450.
Ellington, John W.: *See*—
Batty, Harry A., Eisler, and Ellington. 3,049,152.
Elliot Enterprises, Inc.: *See*—
Mallinckrodt, George E. 3,070,074.
Elliot, Louis J., to Kinetics Corp. Electrical switch. 3,060,-284. 10–23–62, Cl. 200—16.
Elliot, William H., to Cutler-Hammer, Inc. Thermally responsive electrical control systems. 3,032,690, 5–1–62, Cl. 317—41.
Elliott, Andrew B., Jr., to Jefferson Electric Co. Plural lamp ballast. 3,054,930, 9–18–62, Cl. 315—188.
Elliott, Bernard J., to Olin Mathieson Chemical Corp. Hammer. 3,030,989, 4–24–62, Cl. 145—29.
Elliott, Bernard J., and E. R. Fetherbridge, to Olin Mathieson Chemical Corp. Protective shield for fastener driving tools. 3,060,438, 10–30–62, Cl. 1—44.5.
Elliott, Bernard V. Automatic welding machine. 3,020,388, 2–6–62. Cl. 219—60.
Elliott, Bernard V. to G. C. Price Co. Apparatus for advancing internal line-up clamps through end-to-end pipe sections. 3,045,338, 7–24–62. Cl. 29—272.
Elliott, Charles H., and R. E. Eckman, to Reed Roller Bit Co. Mechanism to control the torque delivered by impact wrenches. 3,018,866, 1–30–62, Cl. 192—150.
Elliott, Charles L., to Tri-Wall Containers, Inc. Counterstressed corrugated board bulk container. 3,036,752, 5–29–62, Cl. 229—14.
Elliott, Clifton M.: *See*—
Ball, Thomas M., Graham, Elliott, Hurst, and Noftz. 3,078,860.
Elliott, Clifton M., to Chrysler Corp. Fuel distribution and dispersing unit. 3,038,461, 6–12–62, Cl. 123—119.
Elliott, Daniel O., Jr. Method of making contact lenses. 3,030,859. 4–24–62. Cl. 88—54.5.
Elliott, David G. Gas-drive jet pump. 3,031,977, 5–1–62, Cl. 103—258.
Elliott, Eugene W., to Chicago Aerial Industries, Inc. Camera shutter arrangement and means for operating the same. 3,044,381, 7–17–62, Cl. 95—63.
Elliott, Eugene W., and E. J. Bury, to Chicago Aerial Industries, Inc. Film threading device. 3,049,981, 8–21–62, Cl. 95—34.
Elliott & Evans, Inc.: *See*—
O'Connor, A. Louis, Jr., and J. H. O'Connor. 3,038,151.
Elliott, George B.: *See*—
Wray, James, and Elliott. 3,058,701.
Elliott, George D., and J. J. Wilkinson. Container closure. 3,048,297, 8–7–62. Cl. 220—24.5.
Elliott, George E., Jr.: *See*—
Boucek, Albert C., Elliott, and Stewart. 3,029,207.
Elliott, George E., Jr., J. B. McKinley, and M. M. Stewart, to Gulf Research & Development Co. Process for preparation of a catalyst. 3,017,368, 1–16–62, Cl. 252—439.
Elliott, George E., Jr., and B. J. Lerner, to Gulf Research & Development Co. Impregnation of porous solids. 3,033,-800, 5–8–62, Cl. 252—455.
Elliott, Harold V., to General Motors Corp. Circuit controller. 3,041,429, 6–26–62, Cl. 200—156.
Elliott, Harold V., C. E. Bates, and R. E. Johnson, to General Motors Corp. Circuit controller. 3,030,459, 4–17–62, Cl. 200—61.
Elliott, Howard A., to Essex Wire Corp. Contact for electric switches. 3,041,577, 6–26–62, Cl. 339—221.
Elliott, Irwin, one-half percent to R. H. Williams. Bread treatment method and apparatus therefor. 3,065,079, 11–20–62, Cl. 99—86.
Elliott, John S., and E. D. Edwards, to Castrol Ltd. Lubricating compositions. 3,030,304, 4–17–62, Cl. 252—33.4.
Elliott, Kenneth M., to Socony Mobil Oil Co., Inc. Multistage endothermic reactions without intermediate reheat. 3,054,744, 9–18–62, Cl. 208—64.
Elliott, Kenneth R. Operator for rotary valve. 3,063,298, 11–13–62. Cl. 74—89.
Elliott, Ralph W., to Phillips Petroleum Co. Speed control system for gas engines. 3,054,265, 9–18–62, Cl. 60—97.
Elliott, Reed O., and K. A. Gschneidner, Jr., to United States of America, Atomic Energy Commission. Plutonium alloys containing controlled amounts of plutonium allotropes obtained by application of high pressures. 3,043,727, 7–10–62, Cl. 148—4.
Elliott, Richard L., and C. R. Joslyn, to The Bendix Corp. Conduit and method for making same. 3,068,028, 12–11–62. Cl. 285—149.
Elliott, Richard M.: *See*—
Eckles, Geoffrey A., Elliott, Farley, and Schaefer. 3,040,-563.
Elliott, Richard W.: *See*—
Wiede, Kenneth W., and Elliott. 3 021,392.
Elliott, Robert A., to The Bendix Corp. Hydraulic device 3,069,858, 12–25–62, Cl. 60—54.5.
Elliott, Robert H., to American Biltrite Rubber Co., Inc. Process and apparatus for making conveyor belting. 3,041,-661, 7–3–62, Cl. 18—6.
Elliott, Robert J.: *See*—
Green, Daniel M., Kohnle, and Elliott. 3,051,621.
Elliott, Robert L.: *See*—
Kettler, Clarence J., Elliott, and Schoendube. 3,054,943.
Elliott, Ronald A., to The Marley Co. Method and apparatus for producing finned tubing. 3,060,556, 10–30–62, Cl. 29—157.3.
Elliott, Sam D.: *See*—
Allyn, Robert M., and Elliott. 3,016,970.
Mendenhall, Harold L., and Elliott. 3,040,833.
Elliott, Sam D., to Phillips Petroleum Co. Seismic exploration. 3,041,578, 6–26–62, Cl. 340—15.5.
Elliott, Stanley B.: *See*—
Freedman, Meyer L., and Elliott. 3,024,222.
Elliott, Thomas A.: *See*—
Currie, Charles H., and Elliott. 3,028,960.
Elliott, Victor B.: *See*—
Barnes, Allan F. C., Elliott, and Strauss. 3,056.370.
Elliott, Walter L., to The Taylor, Smith & Taylor Co. Handle cutting machine. 3,039,163, 6–19–62, Cl. 25—22.
Elliott, Walter L., to The Taylor, Smith & Taylor Co. Cup turning machine. 3,040,409, 6–26–62, Cl. 25—22.
Elliott, William F., and W. J. Frisch, to FWD Corp. Demountable vehicle bogie. 3,036,842, 5–29–62, Cl. 280—81.
Elliott, William J.: *See*—
Parlin, David B., and Elliott. 3,060,072.
Ellis, Alonzo G., to The McKay Machine Co. Transfer apparatus. 3,040,163, 6–19–62, Cl. 219—79.
Ellis, Benjamin C., Jr., to Bell Telephone Laboratories, Inc. Connection of insulated wire. 3,066,274, 11–27–62, Cl. 339—97.
Ellis, Bernard: *See*—
Barton, Suzanne P., Ellis, and Petrow. 3,070,613.
Waddington-Feather, Sheila M., Ellis, and Petrow. 3,021,345.
Ellis, Bernard, B. E. Hill, V. Petrow, and D. M. Williamson, to The British Drug Houses Ltd. 6-methyl-3-oxo-4 : 6-dihydroxycholic steroids. 3,062,844, 11–6–62, Cl. 260—397.3.
Ellis, Carleton, Jr. Reflector device. 3,021,757, 2–20–62, Cl. 88—98.
Ellis, Cecil B., to Foster Wheeler Corp. Adjustment system for fluid fuel nuclear reactors. 3,039,946, 6–19–62, Cl. 204—193.2.
Ellis, Cecil B., to Foster Wheeler Corp. Safety arrangement for neutronic reactors aboard water-sustained craft. 3,047,485, 7–31–62, Cl. 204—193.2.
Ellis, Charles A., to Glass-Tite Industries, Inc. Mercury switch. 3,045,088, 7–17–62, Cl. 200—152.
Ellis, Charles A., to Ritter Co., Inc. Dental apparatus. 3,050,855, 8–28–62, Cl. 32—26.
Ellis, Charles E. Adjustable speed alternating current motor. 3,017,528, 1–16–62, Cl. 310—191.
Ellis, Charles L.: *See*—
McAdams, Paul F., Ellis, and Christensen. 3,063,177.
Ellis, David A.: *See*—
Magner, James E., Long, Ellis, and Grinstead. 3,030.175.
Ellis, David H., to The Oscar C. Rixson Co. Door closer mechanism. 3,040,372, 6–26–62, Cl. 16—62.
Ellis, Garland C.: *See*—
Formaini, Robert L., and Ellis. 3,057,918.
Ellis, George W., to General Electric Co. Optical light valve. 3,048,655. 8–7–62, Cl. 178—7.86.
Ellis, Glyn: *See*—
Moseley, John C., Ellis, Hayward, and Houston. 3,030,426.

Ellis, Herbert B., to Reliquefier Corp. Method of preparing frozen food for market. 3,059,442, 10–23–62, Cl. 62—64.
Ellis, John G., to Sprayon Products, Inc. Liquid spraying device. 3,044,713, 7–17–62, Cl. 239—346.
Ellis, John H., 50% to N. S. Blodgett. Winch. 3,027,141, 3–27–62, Cl. 254—166.
Ellis, John T., Jr., to Hanna Engineering Works. Electromechanical control device. Re. 25,257, 10–9–62, Cl. 121—41.
Ellis, John T., Jr., to Hanna Engineering Works. Shock absorber. 3,070,363, 12–25–62, Cl. 267—1.
Ellis, Lee, Jr. Combined arrow and pellet-shooting cane. 3,058,456, 10–16–62, Cl. 124—26.
Ellis, Morris L. Shear pin rope socket. 3,031,218, 4–24–62, Cl. 287—91.
Ellis, Nicholas D., and J. J. Solomon, to Anheuser-Busch, Inc. Can carton. 3,032,185, 5–1–62, Cl. 206—65.
Ellis, Norbert H.: *See*—
Wheeler, Edward S., Griesinger, and Ellis. 3,036,090.
Ellis, Robert. Boat steering, anchor control, and depth measuring device. 3,068,828, 12–18–62, Cl. 114—206.
Ellis, Robert E., to United States of America, Atomic Energy Commission. Multiple electron beam ion pump and source. 3,022,933, 2–27–62, Cl. 230—69.
Ellis, Robert E. Shoe cleaner. 3,037,225, 6–5–62, Cl. 15—37.
Ellis, Rollo G., to Micromatic Hone Corp. Ball honing tool. 3,016,662, 1–16–62, Cl. 51—209.
Ellis, Sydney M., to Champion Dish Washing Machine Co. Conveyor for dish washers. 3,044,601, 7–17–62, Cl. 198—131.
Ellis, Thomas E.: *See*—
Confeld, James D., Ellis, and Jorgensen. 3,025,355.
Ellison, Lynn E.: *See*—
Marsh, Glenn A., Ellison, and Schaschl. 3,047,847.
Ellison, Lynn E., E. Schaschl, and G. A. Marsh, to The Pure Oil Co. Appas for cathodic protection. 3,061,773, 10–30–62, Cl. 324—30.
Ellison, Samuel H., Jr.: *See*—
Belk, Wilber C., and Ellison. 3,018,592.
Ellithorpe, Gilbert S., to Littelfuse, Inc. Electric switch. 3,019,308, 1–30–62, Cl. 200—11.
Ellman, Julius, and G. Kozlay. Toy missile catch. 3,036,-832, 5–29–62, Cl. 273—96.
Ellman, O. N., Jr., to Valley Iron Works Corp. Roll wrapping machine. 3,063,214, 11–13–62, Cl. 53—380.
Ells, Pritchard P. Black masterbatch preparation. 3,060,-050, 10–23–62, Cl. 106—307.
Ells, Pritchard P., and W. C. Bullard, Jr., to United Rubber & Chemical Co. Method of determining the presence of liquids in pressure vessels. 3,048,984, 8–14–62, Cl. 62—49.
Ellsworth, Allan R.: *See*—
Adams, Robert W., and Ellsworth. 3,018,513.
Ellsworth, William M., to Pneumo Dynamics Corp. Sound producing device. 3,039,559, 6–19–62, Cl. 181—.5.
Ellwood, Walter B., to Bell Telephone Laboratories, Inc. Circuit controlling device. 3,032,628, 5–1–62, Cl. 200—87.
Elzey, Floyd P. Body construction. 3,023,860, 3–6–62, Cl. 189—34.
Elzey, Floyd P. Apparatus for making spirally wrapped multi-layer body construction. 3,067,707, 12–11–62, Cl. 113—35.
Elmendorf, Armin. Floor and method of laying it. 3,055,065, 9–25–62, Cl. 20—89.
Elmendorf, Armin. Method of splicing veneer. 3,017,310, 1–16–62, Cl. 156—248.
Elmer and King Mfg. Co.: *See*—
Hake, Walter T. 3,019,672.
Elmer, Otto C.: *See*—
Keplinger, Orin C., Elmer, and Duncan. 3,062,772.
Elmer, Otto C., to The General Tire & Rubber Co. Sulfur curing of polyether-urethane rubbers. 3,015,636, 1–2–62, Cl. 260—2.5.
Elmer, Otto C., and K. V. Weinstock, to General Tire & Rubber Co. Composition comprising polyurethane resin methylol phenol and filler, method of vulcanizing same, and tire tread therefrom. 3,028,353, 4–3–62, Cl. 260—38.
Elmer, Thomas H.: *See*—
Bacon, James F., Elmer, and Hood. 3,032,659.
Elmer, Thomas H., to Corning Glass Works. Opal, 96% silica glass and method of production. 3,054,221, 9–18–62, Cl. 49—77.
Elmer, William B., to United States of America, Navy. Mooring device. 3,038,406, 6–12–62, Cl. 102—13.
Elmer, William B., to United States of America, Navy. Control system. 3,057,314, 10–9–62, Cl. 114—25.
Elmes & King Mfg. Co.: *See*—
Tomka, Joseph W., and Brenk. 3,016,005.
Elmes, Robert T., and J. A. Chilman, to Rotol Ltd. Variable pitch propellers. 3,040,817, 6–26–62, Cl. 170—160.58.
Elmore, Claude W. Sanitary napkin cover. 3,035,578, 5–22–62, Cl. 128—290.
Elmore, Harry M., 50% to G. L. Tapp. Sliding door framework with adjustable feature. 3,049,765, 8–21–62, Cl. 20—19.
Elmore, William C.: *See*—
Jones, James B., Elmore, and De Prisco. 3,052,020.
Elmore, William C., and C. F. De Prisco, to Aeroprojects Inc. Vibratory device. 3,017,792, 1–23–62, Cl. 78—82.
Elmore, William C., and C. F. De Prisco, to Aeroprojects, Inc. Vibratory device. 3,054,309, 9–18–62, Cl. 78—82.
Elms, Edwin F., and T. B. Saunders, to R. L. Brown. Molding engaging spring fastener. 3,015,866, 1–9–62, Cl. 24—73.
Eloranta, Vaito K.: *See*—
Bachelder, Albert J., and Eloranta. 3,053,160.
Eloranta, Vaito K., to Polaroid Corp. Photographic product. 3,033,091, 5–8–62, Cl. 95—13.
Eloranta, Vaito K., to Polaroid Corp. Photographic product. 3,046,861, 7–31–62, Cl. 95—13.
Elox Corp. of Michigan: *See*—
Pfau, Jean. 3,033,971.
Porterfield, Cecil P. 3,024,406.
Porterfield, Cecil P. 3,056,065.
Webb, Robert S. 3,062,192.
Webb, Robert S. 3,062,985.
El Paso Natural Gas Products Co.: *See*—
Kamlet, Jonas. 3,039,251.
Elpern, Bill, to Sterling Drug Inc. Lower-alkyl 1-[3-(monocarbocyclic-arly)-2-propenyl]-4-phenyl-4-piperidyl ketones and their preparation. 3,043,844, 7–10–62, Cl. 260—294.7.
Elphic, Leon E., to Owens-Illinois Glass Co. Method and apparatus for handling and trimming plastic articles. 3,040,376, 6–26–62, Cl. 18—2.
Elrick Rim Co., Inc.: *See*—
Dunton, James W. 3,042,091.
Elsas, Norman E. Film projector. 3,061,160, 10–30–62, Cl. 226—58.
Elscott, Donald U.: *See*—
Jones, Milton G., and Elscott. 3,037,309.
Else, Harry C. Chucks for horizontal work-pieces. 3,038,734, 6–12–62, Cl. 279—1.
Elsesser, Charles C.: *See*—
Yermakoff, Edward A., Elsesser, and Lee. 3,061,169.
Elseth, Theodore V., to Chemetron Corp. Apparatus for electric arc welding. 3,046,438, 7–24–62, Cl. 314—69.
Elslager, Edward F.: *See*—
Short, Franklin W., and Elslager. 3,057,776.
Tendick, Frank H., Thompson, and Elslager. 3,017,413.
Elsner, Edwin C., to Aeroquip Corp. Self-locking releasable fastener. 3,017,679, 1–23–62, Cl. 24—201.
Elsner, Edwin C., and E. F. White, to Aeroquip Corp. Pallet liffting attachment. 3,065,987, 11–27–62, Cl. 294—67.
Elsner, Horst: *See*—
Loebler, Peter, Helligrath, Elsner, and Huttenlocher. 3,060,061.
Elssner, Richard: *See*—
Lindecke, Berthold H., Elling, and Elssner. 3,038,778.
Elstner, Hilton H. Horizontal self-feeding silo. 3,063,416, 11–13–62, Cl. 119—51.
Elston, Arthur A., and W. S. Hinegardner, to E. I. du Pont de Nemours & Co. Purification of hydrogen peroxide. 3,016,290, 1–9–62, Cl. 23—207.
Elston, Edward R.: *See*—
Cohen, Max, and Elston. 3,021,991.
Elston, George F., and G. F. Tess, to Vickers Inc. Power transmission. 3,037,527, 6–5–62, Cl. 137—637.4.
Elston, James W., Jr.: *See*—
Wilson, Charles P., Jr., Ciapetta, and Elston. 3,055,737.
Wilson, Charles P., Jr., Ciapetta, and Elston. 3,066,012.
Elston, Lewis W.: *See*—
Bradley, James W., Elston, and Burrows. 3,033,793.
Elswood, Arthur C. Trash receiver. 3,062,363, 11–6–62, Cl. 206—19.5.
Eltonhead, Robert: *See*—
Dehn, Joseph W., Jr., Eltonhead, and Pizzarello. 3,057,-848.
El-Tronics, Inc.: *See*—
Sommers, Alexis. 3,041,428.
Eltze, Georg: *See*—
Schöllhammer, Friedrich W., and Eltze. 3,051,191.
Eltze, Ulrich, to Daimler-Benz Aktiengesellschaft. Curve stabilization arrangement, particularly for motor vehicles. 3,016,247, 1–9–62, Cl. 280—112.
Elves, Douglas C.: *See*—
Paskevich, Ernest J., and Elves. 3,027,946.
Elves, Walter W. Power take-off. 3,061,033, 10–30–62, Cl. 180—53.
El Waziri, Abdel H.: *See*—
Chaney, Thomas K., and El Waziri. 3,055,243.
Elwell, John R.: *See*—
Barton, David W., and Elwell. 3,061,036.
Elwell, John R., to Ford Motor Co. Compressor. 3,062,434, 11–6–62. Cl. 230—51.
Elwell-Parker Electric Co., The: *See*—
Ackermann, Joseph A. 3,018,011.
Draxler, John A. 3,019,919.
Draxler, John A. 3,066,807.
Elwick, Keith D., to Hawk Bilt Mfg. Corp. Animal insecticide applicator. 3,020,883, 2–13–62, Cl. 119—157.
Elwick, Keith D., to Hawk Bilt Mfg. Corp. Animal insecticide applicator. 3,035,547, 5–22–62, Cl. 119—157.
Elwick, Keith D., to Hawk Bilt Mfg. Corp. Material unloading apparatus. 3,048,409, 8–7–62, Cl. 275—3.
Elwood, Francis E., W. H. Clune, and W. L. Schaub, to Corn Products Co. Method of making margarine. 3,033,689, 5–8–62, Cl. 99—122.
Ely, Charles: *See*—
Hochberg, Melvin, and Ely. 3,067,104.
Ely, Harley L. Quick release cam type fastener device. 3,015,870, 1–9–62, Cl. 24—221.
Ely, Howard L. Vehicle hoist. 3,051 340, 8–28–62, Cl. 214—512.

Ely, Robert S., to The Electric Indicator Co., Inc. Numerical indicator. 3,064,375, 11–20–62, Cl. 40—32.
Elyard, Charles A.: *See*—
Rawson, Harold, and Elyard. 3,063,793.
Elzey, Lloyd J. Coring bit. 3,032,130, 5–1–62, Cl. 175—403.
Emal, Earl A.: *See*—
Southwell, Edward H., Emal, Cuhrt, and Wang. 3,029,674.
Emanuel, Roberto, to Soc. Acc. Emanuel di G. e R. Emanuel & C. Slidable vane rotary compressor. 3,026,021, 3–20–62, Cl. 230—140.
Emary, Robert J., to The Colson Corp. Undercarriage for a sound suppressor. 3,021,111, 2–13–62, Cl. 254—2.
Emberland, Georg. Hinges for windows and doors. 3,035,-635, 5–22–62, Cl. 160—213.
Emberson, Kenneth W., and R. E. G. Hunt, to Associated Electrical Industries (Woolwich) Ltd. Wire wrapping tool. 3,066,879, 12–4–62, Cl. 242—7.
Emblem, Harold G., N. D. G. Mountford, and C. W. Morley, to Rolls-Royce Ltd. Aqueous coating compositions for production of shell moulds and process for preparing same. 3,051,669, 8–28–62, Cl. 260—17.
Embree, John M., to Curtiss-Wright Corp. Ramjet/afterburner tailpipe temperature and pressure limiter. 3,032,983, 5–8–62, Cl. 60—39.09.
Embree, John M., to Chandler-Evans Corp. Nozzle control for turbojet engine. 3,041,822, 7–3–62, Cl. 60—35.6.
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Thomas, Thomas G., Taylor, and Embree. 3,018,853.
Emeis, Reimer: *See*—
Herlet, Adolf, Spenke, and Emeis. 9,068,383.
Keller, Wolfgang, and Emeis. 3,053,918.
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Emele, Jane F., to Warner-Lambert Pharmaceutical Co. Analgesic compositions containing o-ethoxybenzamide with salicylamide or with a mixture of salicylamide and acetyl-p-aminophenol. 3,063,897, 11–13–62, Cl. 167—65.
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Emenaker, Leo J., to The Bendix Corp. Potentiometer apparatus. 3,017,593, 1–16–62, Cl. 338—143.
Emeny, George B., and R. J. Kinnavy, to Crane Co. Pump. 3,038,413, 6–12–62, Cl. 103—126.
Emerson, Alfred, Jr. Insect trap. 3,023,539, 3–6–62, Cl. 43—113.
Emerson, Eber S. Grinder. 3,044,220, 7–17–62, Cl. 51—100.
Emerson Electric Mfg. Co., The: *See*—
Carlson, Robert J. 3,065,396.
Feldman, Rubin. 3,022,190.
Korski, Frank S., and Martin. 3,017,906.
Little, Gerald R. 3,042,851.
Palmer, John A., and Burroughs. 3,023,792.
Emerson, Howard D.: *See*—
Gregory, James B., Moore, and Emerson. 3,048,157.
Emerson, John: *See*—
Mench, John W., Emerson, and Rowley. 3,022,287.
Emerson, Marvin R.: *See*—
Krause, Charles A., and Emerson. 3,066,867.
Emerson-Pryne Co.: *See*—
Dederick, Clinton H. 3,030,157.
Ford, Harold H. 3,025,379.
Kroen, Bernard A. 3,029,562.
Papsdorf, Robert A. 3,044,106.
Papsdorf, Robert A. 3,057,288.
Watt, James, and Papsdorf. 3,031,946.
Emerson, Richard C.: *See*—
Forbath, Frank P., and Emerson. 3,054,999.
Emerson-White-Rodgers Co.: *See*—
Fox, Leonard C. 3,036,808.
Maney, Francis J. 3,060,997.
Emerson, William J.: *See*—
Moser, Henry W., Emerson, and Kestenbaum. 3,052,422.
Emery, Alfred H. Device for overcoming a false indication due to an actual linear error in lead screw threads. 3,045,-504, 7–24–62, Cl. 74—424.8.
Emery, Edgar F. Means for fitting cable and like binding or mounting clips. 3,068,560, 12–18–62, Cl. 29—267.
Emery Industries, Inc.: *See*—
Barrett, Fred O., and Goebel. 3,036,099.
Emery, John R., and R. Morrow, Jr., to E. I. du Pont de Nemours and Co. Composition board. 3,026,242, 3–20–62, Cl. 162—146.
Emery, Loring D., Jr., to Western Electric Co., Inc. Deposition and measurement of layer thickness. 3,063,867, 11–13–62, Cl. 117—93.
Emery, Merton D., to Harbor Industries, Inc. Drawer guides. 3,033,639, 5–8–62, Cl. 312—348.
Emery, Roy W. Moulding apparatus and method. 3,053,-728, 9–11–62, Cl. 162—228.
Emery, Roy W. Moulding method. 3,069,744, 12–25–62, Cl. 25—155.
Emery, Victor: *See*—
Couty, Donald E., and Simmons. 3,066,600.
Emery, William M. Pillows. 3,017,221, 1–16–62, Cl. 297—397.
Emery, William M. Mattress elevators. 3,021,533, 2–20–62, Cl. 5—327.
Emery, William M. Back rests. 3,041,637, 7–3–62, Cl. 5—327.
Emery, Wilmont W. Fishing rod holder. 3,020,014, 2–6–62, Cl. 248—48.
Emhart Mfg. Co.: *See*—
Johnson, Curtiss S., Jr. 3,057,267.
Mylchreest, George D. 3,050,771.
Walter, Joseph H. 3,057,136.
Emhof, Adolf. Driveway snow plow. 3,055,126, 9–25–62, Cl. 37—42.
Emig, Marsden B., to International Business Machines Corp. Optical carriage. 3,064,790, 11–20–62, Cl. 197—127.
Emile, Philip, Jr., to United States of America, Army. Transistorized storage register-indicator circuit. 3,020,418, 2–6–62, Cl. 307—88.5.
Emily, Avis E., Jr., and K. A. Arata, to Formica Corp. Aligned coated sheets for use in a delaminating process. 3,050,434, 8–21–62, Cl. 156—289.
Eminger, Robert J.: *See*—
Nill, Richard G., and Eminger. 3,025,008.
Emmanuele, Santo: *See*—
Duesel, Bernard F., Emmanuele, and Kadesch. 3,064,-964.
Emmel, David G., to Westinghouse Air Brake Co. Automatic torque control for reciprocating compressors. 3,024,-964, 3–13–62, Cl. 230—21.
Emmel, Henry J., to Bausch & Lomb Inc. Slide projector. 3,041,933, 7–3–62, Cl. 88—26.
Emmelkamp, John O. Animal holding frame. 3,026,846, 3–27–62, Cl. 119—103.
Emmerich, Claude L., to United Aircraft Corp. Gravity meter. 3,033,037, 5–8–62, Cl. 73—382.
Emmerich, Werner S., to Westinghouse Electric Corp. Arc chuter. 3,048,736, 8–7–62, Cl. 313—161.
Emmerling, Anson A., H. B. Kaufman, Jr., W. J. Osborne, and R. A. Steenrod, Jr., to United States of America, Navy. Battery electrode. 3,023,262, 2–27–62, Cl. 236—120.
Emmerson, Arthur F.: *See*—
Hunt, Clarkson T., and Emmerson. 3,055,718.
Emmert, James E., and R. L. Hose roller. 3,034,768, 5–15–62, Cl. 254—190.
Emmert, Raymond L.: *See*—
Emmert, James E., and R. L. 3,034,768.
Emmett, Harry L. Archery bow carrying bag. 3,058,505, 10–16–62, Cl. 150—1.5.
Emmett, James R.: *See*—
Starmer, Roy, and Emmett. 3,062,194.
Emmich, Eugene. Christmas tree ornament. 3,035,162, 5–15–62, Cl. 240—10.
Emmons, Donald R.: *See*—
Collins, Donald F., and Emmons. 3,069,187.
Emmons, Neal L., and J. P. Karpuk, to Reynolds Metals Co. Blow torch fuel and method of burning same. 3,034,874, 5–15–62, Cl. 44—51.
Emmons, Robert A., to S and L Sales, Inc. Progressive timer for dispensing apparatus. 3,055,552, 9–25–62, Cl. 222—70.
Emmons, William D.: *See*—
Clemens, David H., and Emmons. 3,059,027.
Hankins, Elinor M., and Emmons. 3,037,006.
Hankins, Elinor M., and Emmons. 3,037,969.
Wadsworth, William S., Jr., and Emmons. 3,033,887.
Wadsworth, William S., Jr., and Emmons. 3,033,888.
Wadsworth, William S., Jr., and Emmons. 3,038,001.
Emmons, William D., and W. S. Wadsworth, Jr., to Rohm & Haas Co. Treatment of cellulose textiles with phosphoramides. 3,068,060, 12–11–62, Cl. 8—116.2.
Emms, William B. Positioning of bodies in three dimensions. 3,030,820, 4–24–62, Cl. 74—483.
Empire Brushes, Inc.: *See*—
Schwartz, Harold H. 3,051,975.
Empire Devices, Inc.: *See*—
Borck, Charles A., and Knapp. 3,056,925.
Borck, Charles A., and Knapp. 3,056,926.
Ryberg, Arling W. 3,059,481.
Empire Metal Products Co.: *See*—
McKay, William T. 3,034,566.
Empire Rubber Co.: *See*—
Waldrop, Thomas C. 3,023,062.
Waldrop, Thomas C. 3,031,241.
Empire Stove Co.: *See*—
Bauer, Adrian F. 3,064,638.
Employees' Saving and Profit Sharing Trust Fund of the Citizens and Southern Bank: *See*—
Hurd, Frank K. 3,042,298.
Emporium Specialties Co., Inc.: *See*—
Crosby, Cedric W. 3,036,681.
Erskine, George B., and Gartner. 3,044,789.
Empresa Nacional de Inversiones, S.A.: *See*—
Rupert, Paul S. 3,064,836.

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Emrick, Donald D., to The Standard Oil Co. Process for preparing acyl polysaccharide borates. 3,067,192, 12–4–62, Cl. 260—234.
Emrick, Donald D., and S. M. Darling., to The Standard Oil Co. Borated monomers and polymers. 3,044,998, 7–17–62, Cl. 260—89.5.
Emrick, Lloyd D., to Rockwood & Co. Chain feeders. 3,058,571, 10–16–62. Cl. 198—56.
Emsig Machine Corp.: *See*—
Friend, Harry J., and Soler. 3,024,952.
Emsig Mfg. Co.: *See*—
Sucher, Joseph R. 3,039,112.
Troll, William A., and Bonsignore. 3,044,660.
Enbee Transparent Specialty Co., Inc.: *See*—
Engelstein, Harold. 3,043,737.
Encino Engineering: *See*—
Beck, James C. 3,063,341.
Enco Mfg. Co.: *See*—
Benes, Gordon J. 3,057,238.
En Dean, Howard J., J. D. Jones, and E. Topanelian, Jr. Gulf Research & Development Co. Pipeline leak surveying. 3,016,733, 1–16–62, Cl. 73—40.5.
Endelson, Jack, to McPhilben Mfg. Co., Inc. Lighting fixture. 3,056,20 5–22–62, Cl. 240—73.
Endermann, Fritz: *See*—
Uhlig, Fritz, Endermann, and Neugebauer. 3,061,430.
Ender-Monarch Corp.: *See*—
Grenadier, Lewis R. 3,057,991.
Enders, Adolf, A. K. Seitz, and H. J. Strunck, to Wernicke & Co., K.G. Dressing device for grinding discs, especially for use in connection with the grinding of spectacle glasses. 3,052,227, 9–4–62, Cl. 125—11.
Enders, Edgar: *See*—
Putter, Rolf, Dorlars, and Enders. 3,029,123.
Enderle, John A., to Royal McBee Corp. Type action. 3,021,934. 2–20–62, Cl. 197—17.
Enders, Sherwood G., to The Black and Decker Mfg. Co. Lubrication means for mechanism of the scotch yoke type. 3,033,312, 5–8–62, Cl. 184—5.
Endevco Corp.: *See*—
Bradley, Wilson, Jr. 3,060,333.
Kennedy, Charles J. 3,042,819.
Shoor, Bernard A. 3,042,744.
Young, George V. 3,040,263.
Young, George V. 3,046,469.
Endicott Johnson Corp.: *See*—
Guidici, Gino, and Hoffman. 3,059,353.
Kjelgaard, Bayard L. 3,045,518.
O'Donnell. Bernard R. 3,068,593.
Endler, Harry H. A., to Montecatini Societa Generale per l'Industria e Chimica. Production of ethylene oxide by catalytic oxidation of olefines. 3,043,854, 7–10–62, Cl. 260—348.5.
Endo, Akira: *See*—
Miura, Yukichi, and Endo. 3,058,890.
Endo, Frank S.: *See*—
Feinberg, Albert E., and Endo. 3,023,385.
Endo Laboratories, Inc.: *See*—
Schlesinger, Albert. 3,031,451.
Endras, Gabriel: *See*—
Hassold, Gabriel. 3,058,127.
Endres, Gerard P.: *See*—
Demek, Mary M., Endres, and Epstein. 3,068,072.
Endres, Gunther, K. Soehring, and F. Henn, to Bofors, Aktiebolaget. Method for the production of low-toxic surface anaesthetics. 3,038,835, 6–12–62, Cl. 167—52.
Endres, Hermann: *See*—
Steinbuch, Karl W., and Endres. 3,069,079.
Endres, Hermann, to International Standard Electric Corp. Automatic character recognition. 3,025,495, 3–13–62, Cl. 340—149.
Endress, James W.: *See*—
Caswell, Howard E., and Endress. 3,022,638.
Endter, Friedrich: *See*—
Bonath, Klaus, Endter, De Rycke, Lewis, and Rippon. 3,069,335.
Enenstein, Norman H.: *See*—
Begovich, Nicholas A., and Enenstein. 3,017,630.
Hance, Harold V., and Enenstein. 3,026,514.
Enfield Cycle Co. Ltd., The: *See*—
Bruce, Alastair D., and Pierce. 3,020,874.
Eng, Albert, M. P. Hnilicka, Jr., J. S. Light, and A. G. Walsh, to National Research Corp. Vacuum coating apparatus having sealing means formed of membranes and fibers. 3,040,-702, 6–26–62, Cl. 118—49.
Eng. Entwicklungs-u. Verwertungs-Gesellschaft G.m.b.H.: *See*—
Eisenburger, Kuno, Gott, and Ritter. 3,056,883.
Eng, Jackson, to Esso Research and Engineering Co. Selective conversion of normal paraffins with a crystalline zeolite. 3,039,953, 6–19–62, Cl. 208—26.
Eng, Jackson, and R. M. Butler, to Esso Research and Engineering Co. Chlorine separation process. 3,029,575, 4–17–62, Cl. 55—62.
Engan, John. Arm lock arrangement. 3,036,831, 5–29–62, Cl. 273—54.
Engberg, Ralph E.: *See*—
Yeomans, Clive M., Engberg, and Taylor. 3,038,846.
Engel, Howard L.: *See*—
Amdahl, Lowell D., Douthitt, Engel, and Hogan. 3,070,-304.
Engel, James S., to International Telephone and Telegraph Corp. Moving target selector. 3,051,947, 8–28–62, Cl. 343—7.7.
Engel, James S., H. M. Bellis, and E. J. Huber, to International Telephone and Telegraph Corp. Wide band omnidirectional beacon antenna. 3,054,107, 9–11–62, Cl. 343—761.
Engel, John P., to Sapolin Paints, Inc. Paint colorant dispensing machine. 3,042,259, 7–3–62, Cl. 222—33.
Engel, Karl, to Unipak Cartons Ltd. Cartons. 3,070,258, 12–25–62, Cl. 220—105.
Engel, Lawrence J.: *See*—
Dauber, Louis, and Engel. 3,067,129.
Engel, Ralph D., to Air Reduction Co., Inc. Arc welding torch. 3,018,360, 1–23–62, Cl. 219—130.
Engel, Ralph D., to Air Reduction Co., Inc. Fusion cladding. 3,019,327, 1–30–62, Cl. 219—76.
Engel, Royce G., Jr., and T. A. Cowen, Jr., to Herman Miller, Inc. Bracket. 3,039,727, 6–19–62, Cl. 248—245.
Engel, Thomas, to Vasco Industries Corp. Molding apparatus. 3,039,146, 6–19–62, Cl. 18—38.
Engel, Willem F., to Shell Oil Co. Polymerization of ethylene with molybdenumoxide on silica-alumina catalyst. 3,017,-402, 1–16–62, Cl. 260—94.9.
Engel, Willem F., to Shell Oil Co. Method for purifying polyolefin. 3,052,666, 9–4–62, Cl. 260—94.9.
Engel, Wolfgang, to Anker-Phoenix Nahmaschinen Aktiengesellschaft. Sewing machine. 3,025,812, 3–20–62, Cl. 112—258.
Engel, Wolfgang, to Anker-Phoenix Nahmaschinen AG. Zigzag sewing machine with fancy-stitch selector. 3,043,252, 7–10–62, Cl. 112—158.
Engel, Wolfgang, and H. Baumotte, to Anker-Pheonix Nähmaschinen Aktiengesellschaft. Sewing machine with ring supported bobbin. 3,031,989, 5–1–62, Cl. 112—180.
Engelberg, Edwin L.: *See*—
Wexler, Raymond R., and Engelberg. 3,024,925.
Engelbert, Richard M. Speculum. 3,030,947, 4–24–62, Cl. 128—3.
Engelbrecht, Heinz-Joachim, D. Lenke, and H. Müller, to VEB Deutsches Hydrierwerk Rodleben. New substituted phthalazones and process for their preparation. 3,017,-411, 1–16–62, Cl. 260—247.2.
Engelbrecht, John H., and F. Seiden, to Sperry Rand Corp. Interlocking means for hydraulic servomotor systems. 3,033,171, 5–8–62, Cl. 121—40.
Engelbrecht, Robert M.: *See*—
Eves, John D., and Engelbrecht. 3,041,092.
Engelbrecht, Robert M. Universal furniture construction. 3,066,004, 11–27–62, Cl. 312—294.
Engelbrecht, Rudolf S., to Bell Telephone Laboratories, Inc. Traveling wave parametric amplifier. 3,045,189, 7–17–62, Cl. 330—7.
Engelbrecht, Rudolf S., to Bell Telephone Laboratories, Inc. Up-converter amplifier circuits with isolation. 3,051,909, 8–28–62, Cl. 330—7.
Engelbrecht, William M.: *See*—
Mueller, Otto, Miller, and Engelbrecht. 3,026,746.
Engelfried, Otto, and M. Schenck, to Schering Aktiengesellschaft. Steroid alkyl ethers and process therefor. 3,052,-693, 9–4–62, Cl. 260—397.4.
Engelhard Hanovia, Inc.: *See*—
Bird, Lester F. 3,050,630.
Mutschler, Edward C. 3,066,243.
Rubens, Harry S. 3,042,797.
Scott, Raymond P. W., and Carter. 3,067,327.
Thomas, Raymond J., and Tesi. 3,035,164.
Engelhard Industries, Inc.: *See*—
Anderson, Edward P. 3,019,177.
Anderson, Edward P. 3,022,234.
Anderson, Edward P. 3,022,242.
Anderson, Edward P. 3,022,243.
Andersen, Holger C. 3,053,613.
Andersen, Holger C., Cohn, and Glogau. 3,032,387.
Burk, Emmett H., Jr., and Mool. 3,047,514.
Cohn, Johann G. E., Haley, and Andersen. 3,056,646.
Cramer, Robert H., and Kosinski. 3,042,628.
Dowson, Arthur G., and Buckland. 3,050,371.
Fish, Donald H. 3,022,478.
Fitch, Howard M. 3,022,177.
Haseltine, Robert C. 3,041,719.
Hill, James S. 3,049,577.
Hill, James S. 3,065,526.
Hill, James S. 3,065,571.
Huxster, Frederick G. 3,057,138.
Jury, Webster W. 3,057,317.
Keith, Carl D., and Hettinger. 3,042,627.
Koch, John H., Jr. 3,055,840.
Koch, John H., Jr. 3,066,479.
Langhans, Otto W. 3,056,185.
Langhans, Otto W. 3,057,057.
Lincoln, Arnold J. 3,057,718.
Ogden, Joseph. 3,066,042.
Ogden, Joseph, and Armeny. 3,049,753.
Peterson, Carl D. 3,038,138.
Potter, Charles. 3,045,278.
Robinson, Harold W. 3,044,155.
Schneider, Julius F., and Accinno. 3,066,177.
Van Nordstrand, Robert A., Teter, Keith, and Hauel. 3,058,907.
Zwanzig, Arthur J. 3,058,086.

Engelhardt, Edward L., to Merck & Co., Inc. 10-(omega-aminoalkylidene)-thioxanthenes. 3,046,283, 7–24–62, Cl. 260—328.
Engelhardt, Heinz, S. Block, and H. Schlenz, to Hartmann & Braun Aktiengesellscraft. Gas analyser. 3,055,207, 9–25–62, Cl. 73—27.
Engelhardt, Vaughn A.: *See*—
Alderson, Thomas, and Engelhardt. 3,065,242.
Barney, Arthur L., Engelhardt, and Palmbeck. 3,046,-127.
Engelhardt, Vaughn A., to E. I. du Pont de Nemours and Co. Propellant compositions containing a polycyano fuel component. 3,017,301, 1–16–62, Cl. 149—45.
Engelhorn Development Corp.: *See*—
Moss, Edgar E. 3,027,594.
Engelke, Erwin A. Tile setting apparatus. 3,020,082, 2–6–62, Cl. 294—87.
Engelking, Fred S.: *See*—
Bailey, John M., Engelking, Hopper, and Jero. 3,022,232.
Engelland, George C., to Libby, McNeill and Libby. Food processing. 3,024,116, 3–6–62, Cl. 99—156.
Engelman, Helmuth W., to General Electric Co. Pressure ratio sensor. 3,068,701, 12–18–62, Cl. 73—407.
Engelman, Joseph H., to Burroughs Corp. Magnetron tube. 3,031,595, 4–24–62, Cl. 313—157.
Engelmann, Milton E., to Vandale Corp. Unloader for silos and the like. 3,017,044, 1–16–62, Cl. 214—17.
Engelmann, Richard H., to Jack N. Binns. Method of and means for measuring torque of an electric motor drive. 3,019,640, 2–6–62, Cl. 73—136.
Engels, Eugene O. Dough stretching apparatus. 3,043,244, 7–10–62, Cl. 107—9.
Engels, Eugene O. Dough sheeting apparatus. 3,055,318, 9–25–62, Cl. 107—12.
Engelsher, Harvey J.: *See*—
Hofstra, Peter C., and Engelsher. 3,066,346.
Engelstein, Harold, to Enbee Transparent Specialty Co., Inc. Transparent sheet protector. 3,043,737, 7–10–62, Cl. 156—196.
Engeman, Leonard A., and K. C. Rupert, to Sylvania Electric Products Inc. Staging devices. 3,044,352, 7–17–62, Cl. 88—24.
Enghauser Mfg. Co., Inc.: *See*—
Young, Richard C. 3,039,731.
Engholefer, Emil, to Strausak & Cie Maschinenfabrik und apparatebau Lohn. Milling method. 3,030,866, 4–24–62, Cl. 90—4.
Engholdt, Richard K., to Erie Mfg. Co. Injector pump. 3,022,743, 2–27–62, Cl. 103—258.
Engholdt, Richard K., to Erie Mfg. Co. Motor operated valve. 3,042,357, 7–62, Cl. 251—78.
Engi, Walter, to A. Ditting. Spout construction for coffee mills and the like. 3,021,984, 2–20–62, Cl. 222—196.
Engineering Developments, Inc.: *See*—
Millar, John H. 3,023,496.
Engineering Productions (Clevedon) Ltd.: *See*—
Parker, Robert W. 3,052,477.
Engineering Research and Application Ltd.: *See*—
Rodgers, William. 3,054,603.
Engineering Supervision Co.: *See*—
Gerard, George, and Brayman. 3,031,993.
Gerard, George, and Brayman. 3,044,113.
Gerard, George, and Brayman. 3,049,756.
Engineers & Fabricators, Inc.: *See*—
Dillman, Edward E., and Ringo. 3,040,592.
Engineers Testing Laboratory, Inc.: *See*—
Watkins, Jack, and Skinner. 3,035,437.
England, David C.: *See*—
Andreades, Sam, England, and Lindsey. 3,030,409.
England, David C., to E. I. du Pont de Nemours and Co. Substituted oxadiazines and dioxazines. 3,030,362, 4–17–62, Cl. 260—244.
England, David C., to E. I. du Pont de Nemours and Co. Addition products of polyfluorocyclobutanones and a diene. 3,036,091, 5–22–62, Cl. 260—345.1.
England, David C., to E. I. du Pont de Nemours and Co. Perfluorocyclobutanone and selected derivatives thereof. 3,039,995, 6–19–62, Cl. 260—63.
England, David C., to E. I. du Pont de Nemours and Co. 6,6,7,7-tetrafluoro-5,5-dihalo-1-oxa-spiro[3.3] heptanes and process for their production. 3,040,058, 6–19–62, Cl. 260—333.
England, David C., to E. I. du Pont de Nemours and Co. N-(3,3,4,4-tetrafluoro-cyclobutyl 1-substituted amides and the prepartion thereof. 3,062,787, 11–6–62, Cl. 260—78.
England, David C., and R. E. Foster, to E. I. du Pont de Nemours and Co. Process for the preparation of acrylonitrile from propylene and nitric oxide. 3,023,226, 2–27–62, Cl. 260—465.3.
England, George J. Portable sterilizing unit for hypodermic syringe and needle. 3,066,361, 12–4–62, Cl. 21—90.
England, Hugo O. Battery terminal. 3,048,646, 8–7–62, Cl. 136—135.
England, Richard E., and W. R. McCullough, to Ford Motor Co. Dielectric heating. 3,017,484, 1–16–62, Cl. 219—10.53.
Englander Co., Inc., The: *See*—
Fasanella, George S. 3,059,387.
Fleming, Earl N., and Fasanella. 3,058,126.
Kamp, Ewald A. 3,019,456.
Kamp, Ewald A. 3,027,570.
Kamp, Ewald A. 3,048,167.
Kamp. Ewald A. 3,048,168.
Englander Co., Inc., The: *See*—Continued
Kamp, Ewald A. 3,059,249.
Piliero, James. 3,043,347.
Pink, Chester A. 3,055,018.
Pink, Chester A., and Thierfelder. 3,058,123.
Thierfelder, Ervin H. 3,049,723.
Thierfelder, Ervin H. 3,055,017.
Thierfelder, Ervin H., and Fleming. 3,047,886.
Wetzler, Justin J. 3,040,473.
Englander, Robert S. Automatic monitoring device for communication lines. 3,026,383, 3–20–62, Cl. 179—175.2.
Engle, Charles J.: *See*—
Bergman, William E., Marwil, and Engle. 3,025,965.
Engle, Darrell G., to Brown-Hutchinson Iron Works. Pontoons. 3,064,611, 11–20–62, Cl. 114—66.5.
Engle, Glenn E.: *See*—
Allen, Robert C., and Engle. 3,030,103.
Engle, James P.: *See*—
Brenner, John W., and Engle. 3,037,887.
Engle, Loy S.: *See*—
Bernardi, Dominic J., Tringal, Roth, and Engle. 3,017,-374.
Engle, Paul M., to Cambridge Filter Mfg. Corp. Filters. 3,019,855, 2–6–62, Cl. 183—62.
Engle, Robert C.: *See*—
Greening, John H., and Engle. 3,059,381.
Engle, Robert F., Jr., and H. A. Pohl, to E. I. du Pont de Nemours and Co. Catalytic process for the preparation of substantially colorless polymeric glycol terephthalates. 3,028,366, 4–3–62, Cl. 260—75.
Englehardt, Daniel A. Suit and shirt bags. 3,019,869, 2–6–62, Cl. 190—43.
Englehart, Alva F., and T. Gunther, to United States of America, War. Submarine mine control system. 3,031,962, 5–1–62, Cl. 102—11.
Englehart, Paul G. Portable floor wax cart. 3,044,096, 7–17–62, Cl. 15—257.05.
Engler, Ernst, to Bodenseewerk Perkin-Elmer & Co., G.m.b.H. Device for automatic tracking of targets. 3,046,332, 7–24–62, Cl. 178—7.2.
Englert, Theo: *See*—
Besel, Wilhelm, Englert, and Mayer. 3,064,797.
Englert, William J.: *See*—
Duncan, James E., and Englert. 3,022,183.
Engles, Earl F.: *See*—
Rubens, Louis C., and Engles. 3,026,272.
Engles, Earl F., to The Dow Chemical Co. Process for making expandable vinyl aromatic resin compositions. 3,026,-273, 3–20–62, Cl. 260—2.5.
Englesmann, Dieter, to Agfa Aktiengesellschaft. Automatic camera. 3,063,352, 11–13–62, Cl. 95—10.
Engleson, Harry E., and E. D. Sramek, to Crompton & Knowles Packaging Corp. Life saver package. Re. 25,143, 3–27–62, Cl. 229—51.
Engleson, Harry E., and E. D. Sramek, to Crompton & Knowles Packaging Corp. Tray filling and forming apparatus. 3,016,670, 1–16–62, Cl. 53—194.
Engleson, Harry E., and E. D. Sramek, to Crompton & Knowles Packaging Corp. Article packing machine and mechanism for stacking articels to be packed. 3,031,814, 5–1–62, Cl. 53—159.
Engleson, Harry E., and E. D. Sramek, to Crompton & Knowles Packaging Corp. Carton transfer apparatus. 3,040,635, 6–26–62, Cl. 93—53.
Engleson, Harry E., and E. D. Sramek, to Crompton & Knowles Packaging Corp. Packaging machine. 3,045,558, 7–24–62, Cl. 93—1.
Engleson, Harry E., and E. D. Sramek, to Crompton & Knowles Corp. Prefolding apparatus. 3,068,761, 12–18–62, Cl. 93—49.
Engleson, Harry E., and E. D. Sramek, to Crompton & Knowles Corp. Apparatus for removing blanks from a magazine. 3,069,158, 12–18–62, Cl. 271—29.
Englesson, Sixten, ½ to Aktiebolaget Flygts Pumpar. Dispensing pump and coupling. 3,018,925, 1–30–62, Cl. 222—180.
English, Arthur R., and T. J. McBride, to Chas. Pfizer & Co., Inc. Antibiotic compositions comprising synergistic proportions of an oleandomycin antibiotic in combination with a tetracycline type antibiotic. 3,061,513, 10–30–62, Cl. 167—65.
English, Charles L. Subsurface fluid-operated pump. 3,024,-733, 3–13–62, Cl. 103—46.
English Electric Co., The: *See*—
Bell, Robert H., and Campbell. 3,060,998.
English Electric Co. Ltd., The: *See*—
Antoszewski, Eugeniusz, and Paddison. 3,048,746.
Arms, Henry S., Wolff, and Rooney. 3,070,533.
Barnes, Arthur G., Hall, and Thomasson. 3,044,735.
Bedford, Leslie H. 3,057,208.
Bedil, Mustafa F., and Begent. 3,025,482.
Caldwell, John, Peters, and Watson. 3,060,692.
Chisholm, Kenneth D. F. 3,026,427.
Ford, Arthur W. 3,070,741.
Heath, Bernard O. 3,041,016.
Hill, John R. 3,064,138.
Lorett, Jerzy A., and Morris. 3,016,703.
Nellist, Brian D. 3,036,248.
Rizk, Waheeb. 3,057,155.
Seymour, Douglas F., and Walton. 3,032,844.
Sharples, Geoffrey F., and Walley. 3,058,702.
Smith. Thomas W., and Weir. 3,066,892.

English Electric Co., The: *See* Continued
Stearn, George F. 3,044,031.
Warrington, Albert R. V. 3,024,389.
Warrington, Albert R. V. 3,048,744.
Warrington, Albert R. V. 3,048,745.
Willox, Frank G. 3,027,118.
Wray, James, and Elliott. 3,058,701.
English Electric Valve Co.: *See*—
Banks, Peter B. 3,061,752.
Staerck, Thomas H. 3,026,445.
English Electric Valve Co. Ltd.: *See*—
Beurle, Raymond L. 3,038,959.
Beurle, Raymond L. 3,048,728.
Callick, Eric B. B., and Firmin. 3,046,440.
Dain, John, and Callick. 3,039,064.
Dain, John, and Callick. 3,046,492.
Hendry, Eric D. 3,054,019.
Latham, Robert, Thompson, Sixsmith, Folkierski, and Pickering. 3,032,727.
Reichenbaum, George. 3,029,505.
Ruggles, Percy C. 3,017,535.
Turk, Walter E. 3,035,197.
Turk, Walter E. 3,070,720.
Turk, Walter E., and Ruggles. 3,035,196.
English, Herdis G., and G. W. Schulz, to Ford Motor Co. Governor control for automatic transmission. 3,049,028, 8–14–62, Cl. 74—752.
English, Jack B., and J. W. Hubbard. Ignition switch. 3,034,097, 5–8–62, Cl. 340—52.
English, James W., and C. B. Irwin, Jr., to Texas Instruments Inc. Semiconductor rectifier. 3,059,157, 10–16–62, Cl. 317—234.
English, Lawrence P., and R. K. Ritter, to KSM Products, Inc. Stud welding apparatus. 3,029,375, 4–10–62, Cl. 321—11.
English, Le Roy F.: *See*—
Baldwin, Edward P., and English. 3,059,470.
English, Richard A., and R. H. Merrick, to Carrier Corp. Absorption refrigeration system. 3,038,320, 6–12–62, Cl. 62—488.
English Rose Ltd.: *See*—
Starkie, David. 3,065,519.
English, William A.: *See*—
McCloskey, Allen L., English, and Goldsmith. 3,052,641.
English, William D., to United States Borax & Chemical Corp. Polymeric salts of alkyleneiminium tetraphenylborate. 3,024,230, 3–6–62, Cl. 260—239.
English, William D., to United States Borax & Chemical Corp. Organo-phosphorus-boron compound and method of making same. 3,035,095, 5–15–62, Cl. 260—606.5.
English, William D., to United Borax & Chemical Corp. Method for preparing tris(organo-amino)boranes. 3,052,-718, 9–4–62, Cl. 260—551.
English, William D., to United States Borax & Chemical Corp. Method for preparing molecular weight ethynylboronates. 3,064,033, 11–13–62, Cl. 260—462.
English, William D., A. L. McCloskey, and H. Steinberg, to United States Borax & Chemical Corp. Polymeric organoboron compounds and their preparation. 3,028,368, 4–3–62, Cl. 260—77.5.
English, William D., H. Steinberg, and A. L. McCloskey, to United States Borax & Chemical Corp. Preparation of aminoboranes. 3,068,182, 12–11–62, Cl. 260—2.
English, William H. Cartridge loading tool. 3,049,044, 8–14–62, Cl. 86—24.
Englund, Gosta R., to Svenska Dataregister AB. Accounting machine having simultaneously set totalizers, mount indicating means and printing means. 3,040,978, 6–26–62, Cl. 235—60.31.
Englund, Gosta R., to Svenska Dataregister AB. Electromechanical coupling. 3,059,844, 10–23–62, Cl. 234—115.
Englund, John W., to Radio Corp. of America. Transistor detector-audio amplifier. 3,029,340, 4–10–62, Cl. 250—20.
Englund, Lawrence P., to The American Baler Co. Apparatus for baling. 3,024,719, 3–13–62, Cl. 100—44.
Engman, Robert G.: *See*—
Horton, William F., and Engman. 3,018,071.
Engstrom, Carl F.: *See*—
Cuthbertson, George R., and Engstrom. 3,048,211.
Engström, Gunnar: *See*—
Dillon, Charles, and Engström. 3,035,204.
Engstrom, Gunnar P., to Allmanna Svenska Elektriska Aktiebolaget. Direct voltage system comprising static converters interconnected through inter-phase transformers. 3,021,471, 2–13–62, Cl. 321—19
Engstrom, John A., Jr.: *See*—
Hill, John L., and Engstrom. 3,064,242.
Enk, Eduard: *See*—
Altenschopfer, Theodor, Enk, Knorr, and Spes. 3,043,-862.
Enk, Eduard, and F. Knörr, to Wacker-Chemie G.m.b.H. Process for the catalytic production of unsaturated monocarboxylic acid esters. 3,022,337, 2–20–62, Cl. 260—486.
Enk, Eduard, and F. Knörr, to Wacker-Chemie G.m.b.H. Process for the production of unsaturated monocarboxylic acid esters. 3,022,338, 2–20–62, Cl. 260—486.
Enk, Eduard, and F. Knörr, to Wacker-Chemie G.m.b.H. Production of unsaturated monocarboxylic acid esters. 3,022,339, 2–20–62, Cl. 260—486.
Enk, Eduard, and J. Nickl, to Wacker-Chemie G.m.b.H. Process for the production of extremely pure silicon. 3,023,087, 2–27–62, Cl. 23—223.5.
Enk, Eduard, and F. Knorr, to Wacker-Chemie G.m.b.H. Process for the production of unsaturated carboxylic acid esters. 3,031,493, 4–24–62, Cl. 260—486.
Enk, Eduard, F. Knorr, and H. Spes, to Wacker-Chemie G.m.b.H. Process for the production of beta-alkoxy substituted carboxylic acid esters. 3,049,560, 8–14–62, Cl. 260—484.
Enk, Eduard, and H. Spes, to Wacker-Chemie G.m.b.H. Production of trimeric lower alkyl ketenes. 3,057,912, 10–9–62, Cl. 260—488.
Enk, Eduard, and J. Nickl, to Wacker-Chemie G.m.b.H. Process for purifying and recrystallizing metals, non-metals, their compounds or alloys. 3,065,062, 11–20–62, Cl. 23—301.
Enkoji, Takashi: *See*
Bardos, Thomas J., Olsen, and Enkoji. 3,057,865.
Herr, Ross R., Enkoji, and Bardos. 3,048,589.
En Mail Machine Corp.: *See*—
Volks, Herbert, and Ouellette. 3,059,391.
Enna-Werk Optische Anstalt Dr. Appelt K.G.: *See*—
Lautenbacher, Johann. 3,036,499.
Eneneking, Heinrich, to Heberlein Patent Corp. Method and apparatus for producing crimped synthetic yarn. 3,041,813, 7–3–62, Cl. 57—34.
Enninga, Robert, and M. G. J. Beets, to International Flavors & Fragrances Inc. Trimethyl-dodecahydronaphthofurans. 3,045,028, 7–17–62, Cl. 260—346.2.
Ennor, Paul L., to HEK Mfg. Co. Dental impression tray. 3,053,205, 10–2–62, Cl. 32—19.
Enns, Mark K., and J. W. Skooglund, to Westinghouse Electric Corp. Protection of rotating rectifier assemblies. 3,069,-613, 12–18–62, Cl. 321—11.
Enoch, Donald W.: *See*—
Bogner, Joseph F., and Enoch. 3,031,309.
Enoch, Duard W., and M. M. Huber, to Interstate Bakeries Corp. Method of making a total dough batch for bread. 3,032,418, 5–1–62, Cl. 99—90.
Enoch, Duard W., and M. M. Huber, to Interstate Bakeries Corp. Dough making process. 3,062,658, 11–6–62, Cl. 99—90.
Enoksson, Bertil Petrus, to Nitroglyceria Aktiebolaget. Explosive nitrate-alkylamine composition. 3,039,903, 6–19–62, Cl. 149—7.
Enomoto, Taiji. Flower ribbon strip. 3,030,719, 4–24–62, Cl. 41—10.
Enos, John P., to The Singer Mfg. Co. Darning attachment. 3,026,837, 3–27–62, Cl. 112—236.
Enrico, Giovanni, to Mizar Handels-Anstalt. Sound device signalling the beginning of the exhaustion of a liquid gas bottle. 3,024,760, 3–13–62, Cl. 116—109.
Ensign, George G., G. T. Soper, and O. Lundahl, to Elgin National Watch Co. Electrically-powered time devices. 3,026,734, 3–27–62, Cl. 74—126.
Ensign, George G., G. T. Soper, and O. Lundahl, to Elgin National Watch Co. Oscillating balance with hairspring and expansion limiting means. 3,041,819, 7–3–62, Cl. 58—28.
Ensign, Gertrude W. Dishwasher. 3,025,864, 3–20–62, Cl. 134—115.
Ensign, Robert H., D. Cardozo, Jr., G. Woods, and M. Immermann, to The Hopp Press, Inc. Three dimensional display device. 3,015,899, 1–9–62, Cl. 40—125.
Ensign, Roy F. and R. K., to American Bosch Arma Corp. Equalizing system for gaseous fuel feeds for internal combustion engines. 3,068,085, 12–11–62, Cl. 48—184.
Ensign, Roy K.: *See*—
Ensign, Roy F. and R. K. 3,068,085.
Ensign, Roy K., and E. F. Jensen, to American Bosch Arma Corp. Equalizing system for gaseous fuel feeds for internal combustion engines. 3,068,086, 12–11–62, Cl. 48—184.
Ensign, Wheeler L., and H. A. Markland. Coiling mandrel and stripper mechanism. 3,042,335, 7–3–62, Cl. 242—81.
Ensinger, Chester B. Dolly for stoves and the like. 3,061,-327, 10–30–62, Cl. 280—35.
Ensinger, Raymond L.: *See*—
Fleming, Robert S., Cowles, and Ensinger. 3,021,820.
Fleming, Robert S., Cowles, and Ensinger. 3,068,648.
Ensinger, Raymond L., to Holley Carburetor Co. Torsion pivot means. 3,044,308, 7–17–62, Cl. 73—54.6.
Ensinger, Raymond L., to Holley Carburetor Co. Hydraulic coupling having an internal coupling sleeve. 3,055,685, 9–25–62, Cl. 285—347.
Ensinger, Raymond L., to Holley Carburetor Co. Remote control structure. 3,063,305, 11–13–62, Cl. 74—568.
Ensink, Johannes: *See*—
Schayes, Raymond G., and Ensink. 3,015,780.
Ensink, Johannes, and J. Verhagen, to North American Philips Co., Inc. Carrier-wave telephony transmitters for the transmission of single-sideband speech signals. 3,024,-313, 3–6–62, Cl. 179—15.5.
Ensminger, Dale: *See*—
Kunz, Eric C., and Ensminger. 3,025,220.
Ensor, Clyde F., and W. R. Wilburn, to Hesco Parts Corp. Device for testing brake lining bond. 3,026,721, 3–27–62, Cl. 73—101.
Ensrud, Alf F., M. L. Ochieano, and F. R. Steinbacher, to Lockheed Aircraft Corp. Unicore panel construction. 3,025,935, 3–20–62, Cl. 189—34.
Entectic Welding Alloys Corp.: *See*—
Quaas, Joseph F. 3,033,977.
Entemann, Charles E.: *See*—
Bluestone, Henry, Schuldt, Wotiz, Entemann, and Huba. 3,037,058.
Zinn, Eli, Entemann, Perkins, and Wheeler. 3,052,712.

Entemann, Charles E., to Diamond Alkali Co. Dihalo, bis-(2,4,5-trihalophenyl)-methanes. 3,017,440, 1–16–62, Cl. 260—649.
Enterprise Mfg. Co., The: *See*—
Sarah, Thomas F. 3,025,020.
Sarah, Thomas F. 3,051,409.
Enterprise Railway Equipment Co.: *See*—
Batho, William F. 3,070,040.
Dorey, George B. 3,020,092.
Dorey, George B. 3,020,093.
Dorey, George B. 3,055,315.
Gunnison, Richard N. 3,066,618.
Koranda, Clarence J., and Fritz. 3,050,342.
Entin, Leonard P.: *See*—
Campbell, Alan M., and Entin. 3,030,595.
Entin, Leonard P., to Minneapolis-Honeywell Regulator Co. Oscillatory inertial reference. 3,017,775, 1–23–62, Cl. 73—505.
Entler, William H. Eaves gutter cleaning device. 3,041,655, 7–3–62, Cl. 15—600.
Entoleter, Inc.: *See*—
Conley, Kurt H. 3,021,083.
Conley, Kurt H., and Tenner. 3,023,973.
Mould, Harry W., Jr. 3,033,370.
Entreprises Campenon Bernard: *See*—
Pigeot, Robert A. 3,056,183.
Entron, Inc.: *See*—
Diambra, Henry M., and Blum. 3,048,780.
Entschel, Roland, and P. K. Karrer, to Hoffmann-La Roche Inc. Polyene compounds. 3,068,257, 12–11–62, Cl. 260—413.
Entz, Ferdinand S., to Bell Telephone Laboratories, Inc. Multiparty selective signaling system. 3,016,426, 1–9–62, Cl. 179—84.
Environment, Inc.: *See*—
Webb, Paul. 3,049,896.
Enya, Choshi, to Nihon Gakki Seizo Kabushiki Kaisha. Mechanism for regulating chord base tones of a chord organ. 3,064,517, 11–20–62, Cl. 84—444.
Enyeart, Charles R.: *See*—
Chiddix, Max E., and Enyeart. 3,033,889.
Enyeart, Raymond J.: *See*—
Davis, Jerome I., and Enyeart. 3,024,858.
Enzenbacher, Jean A. Core setting method and apparatus. 3,060,534, 10–30–62, Cl. 22—192.
Eolkin, Dave, to Gerber Products Co. Method of preparing dried foods. 3,066,030, 11–27–62, Cl. 99—204.
Epco, Inc.: *See*—
Stoll, Paul A., and Umbricht. 3,055,313.
Epelboin, Andree P., nee Levy, and I., and J. A. Sole, to Centre National de la Recherche Scientifique. Apparatus for liquid processing of strip-like material. 3,060,113, 10–23–62, Cl. 204—206.
Epelboin, Izrael: *See*—
Epelboin, Andree P., and I. and J. A. Sole. 3,060,113.
Ephraim, Max, Jr.: *See*—
Adile, Albert N., and Ephraim. 3,045,419.
Epifanio, Joseph. Safety razor with hinged blade cover. 3,031,756, 5–1–62, Cl. 30—58.
Epner, Martin: *See*—
Gregory, Eric, and Epner. 3,053,706.
Eppard, Clyde M. Rotary unloader. 3,062,392, 11–6–62, Cl. 214—144.
Eppenberger, Paul, to G. Buehler. Plansifters. 3,040,890, 6–26–62, Cl. 209—319.
Epperlein, Helmut, to Hamilton Watch Co. Balance wheel assembly. 3,015,207, 1–2–62, Cl. 58—28.
Epperlein, Helmut, to Hamilton Watch Co. Contact device for electric watches. 3,034,284, 5–15–62, Cl. 58—28.
Epperlein, Helmut, to Hamilton Watch Co. Electric watch. 3,059,412, 10–23–62, Cl. 58—28.
Epperlein, Helmut, to Hamilton Watch Co. Contact system for electric watches. 3,060,676, 10–30–62, Cl. 58—28.
Epperly, William R.: *See*—
Asher, William J., and Epperly. 3,070,542.
Epperly, William R., J. R. Tuttle, G. F. Feldbauer, and C. W. Tyson, to Esso Research and Engineering Co. Removal of aromatics, olefins and sulfur from naphtha feed. 3,063,-930, 11–13–62, Cl. 208—91.
Epperson, Earl W. Crop dryer. 3,037,297, 6–5–62, Cl. 34—102.
Eppy, Marvin. Waistband structure for garments. 3,042,-932, 7–10–62, Cl. 2—236.
Eppy, Samuel, & Co., Inc.: *See*—
Eppy, Sidney. 3,028,049.
Eppy, Sidney, to Samuel Eppy & Co., Inc. Coin operated dispensing means. 3,028,049, 4–3–62, Cl. 221—154.
Eprad, Inc.: *See*—
Boudouris, Angelo. 3,056,222.
Eprova Ltd.: *See*—
Suter, Hans, and Zutter. 3,051,706.
Epsco, Inc.: *See*—
Anfenger, Eli, and Gordon. 3,034,719.
Gordon, Bernard M. 3,038,130.
Gordon, Bernard M. 3,063,635.
Gordon, Bernard M. 3,068,461.
Gordon, Bernard M., and Talambiras. 3,063,018.
Young, Frink M., and Colton. 3,051,791.
Epstein, Daniel: *See*—
Kreps, Saul I., Ohlsson, and Epstein. 3,030,275.
Epstein, David W., J. W. Schwartz, and F. Edelman, to Radio Corp. of America. Electron beam tube. 3,045,141, 7–17–62, Cl. 313—87.
Epstein, Edward J.: *See*—
Epstein, Herman and E. J. 3,052,009.
Epstein, Harry. Shoelace fastener. 3,066,370, 12–4–62, Cl. 24—117.
Epstein, Henry D.: *See*—
White, Abraham P., and Epstein. 3,031,551.
Epstein, Henry D., to Texas Instruments Inc. Thermostatic switch. 3,021,405, 2–13–62, Cl. 200—138.
Epstein, Henry D., to Texas Instruments Inc. Thermostatic device. 3,023,287, 2–27–62, Cl. 200—113.
Epstein, Henry D., to Texas Instruments Inc. Electrical heater assembly. 3,040,283, 6–19–62, Cl. 338—329.
Epstein, Henry D., to Texas Instruments Inc. Thermostatic switch. 3,061,699, 10–30–62, Cl. 200—113.
Epstein, Henry D., to Texas Instruments Inc. Thermostatic switch. 3,066,205, 11–27–62, Cl. 200—113.
Epstein, Henry D., to Texas Instruments Inc. Thermostatic switch. 3,067,306, 12–4–62, Cl. 200—138.
Epstein, Herman. Method and apparatus for preparing and testing sample skeins. 3,056,289, 10–2–62, Cl. 73—160.
Epstein, Herman, and E. J. Epstein, to Colorspace Patent Associates. Apparatus for the crimping of synthetic fibers by electrostatic means. 3,052,009, 9–4–62, Cl. 28—1.
Epstein, Joseph: *See*—
Demek, Mary M., Endres, and Epstein. 3,068,072.
Epstein, Martin: *See*—
Buckler, Sheldon A., and Epstein. 3,052,719.
Henderson, William A., Jr., Buckler, and Epstein. 3,032,591.
Epstein, Martin, and S. A. Buckler, to American Cyanamid Co. Substituted 1,3,5,7-tetraalkyl-2,6,9-trioxa-10-phosphatricyclo [3.3.1.1.3,] decanes. 3,026,327, 3–20–62, Cl. 260—340.7.
Epstein, Martin, and S. A. Buckler, to American Cyanamid Co. Substituted 10-phosphatricyclo [3.3.1.1^{3,7}] decanes and methods of preparing same. 3,050,531, 8–21–62, Cl. 260—340.7.
Epstein, Martin E., and N. C. Gangemi, to Pennsylvania Industrial Chemical Corp. Dicyclopentadiene alkylation polymers. 3,033,200, 2–27–62, Cl. 260—93.1.
Epstein, Paul G., to E-Z Beauty Products Co., Inc. Hair-retaining device. 3,030,969, 4–24–62, Cl. 132—41.
Epstein, William: *See*—
Tatel, Howard E., and Sreb. 3,025,521.
Epsylon Research and Development Co. Ltd.: *See*—
Namenyi-Katz, Laszlo. 3,029,774.
Namenyi-Katz, Laszlo. 3,032,287.
Namenyi-Katz, Laszlo. 3,032,613.
Epsztein, Bernard: *See*—
Dohler, Oscar, and Epsztein. 3,068,432.
Epton, Sidney R.: *See*—
Bell, Albert G., and Epton. 3,050,379.
Equi-Flex Products, Inc.: *See*—
Meyer, Theodore F. W. 3,056,985.
Equipment Mfg., Inc.: *See*—
Hilliger, Frederick B., and Wroblewski. 3,040,906.
Equitable Paper Bag Co., Inc.: *See*—
Davis, John S. 3,040,633.
Eramo, Patrick A.: *See*—
Brook, Arthur F., and Eramo. 3,064,694.
Erapa Etablissement fuer Rationelle Verpackung und Spedition: *See*—
Lüthi, Hans. 3,020,827.
Luthi, Hans. 3,057,289.
Erard, Edward L. Apparatus for manufacturing mineral wool fibers. 3,058,322, 10–16–62, Cl. 65—14.
Erath, Louis W., to Southwestern Industrial Electronics Co. Direct coupled transistor amplifier. 3,023,368, 2–27–62, Cl. 330—14.
Erath, Louis W., to Dresser Industries, Inc. Magnetic delay line. 3,023,403, 2–27–62, Cl. 340—174.1.
Erath, Louis W., to Dresser Industries, Inc. Method and apparatus for compositing seismic records. 3,044,014, 7–10–62, Cl. 324—77.
Erath, Louis W., P. E. Madeley, and F. W. Hefer, to Dresser Industries, Inc. Apparatus for generating and employing time pulses. 3,044,042, 7–10–62, Cl. 340—15.5.
Erb, Albert C. Refrigerator with frigorific inertia mass. 3,026,689, 3–27–62, Cl. 62—226.
Erb, Martin S., to Sperry Rand Corp. Retainer. 3,054,506, 9–18–62, Cl. 206—52.
Erban, Richard T. Optical screen. 3,057,256, 10–9–62, Cl. 88—28.93.
Erbaugh, Lowell E.: *See*—
Calfee, John D., and Erbaugh. 3,022,278.
Calfee, John D., Richard, and Erbaugh. 3,061,603.
Erbe, Otto: *See*—
Kuppenbender, Heinz, Erbe, and Ludwig. 3,054,324.
Erbsloh, Julius & August, Kommanditgesellschaft: *See*—
Erbslöh, Paul-Günther, and Wilke. 3,021,004.
Erbslöh, Paul-Günther, and H. Wilke, to Julius & August Erbsloh Kommanditgesellschaft. Apparatus for plating profiles. 3,021,004, 2–13–62, Cl. 207—2.
Erchak, Michael, Jr., to Allied Chemical & Dye Corp. Process for the oxidation of high molecular weight aliphatic waxes and product. 3,060,163, 10–23–62, Cl. 260—94.9.
Erck, Louis J., D. C. Violetta, and T. E. Ban, to The Cleveland-Cliffs Iron Co. Updraft traveling grate pelletizing furnace. 3,024,101, 3–6–62, Cl. 75—5.
Erck, Louis J., and W. Nummela, to The Cleveland-Cliffs Iron Co. Process of upgrading iron ore concentrates. 3,067,-957, 12–11–62, Cl. 241—23.

Ercoli, Alberto. Process for the preparation of enolethers of Δ^4-3-ketosteroids. 3,019,241, 1–30–62, Cl. 260—397.4.
Ercoli, Alberto. Enol ethers of 6-chloro-substituted Δ^4-3-ketones of the androstane series. 3,053,735, 9–11–62, Cl. 167—55.
Erd, Charles J., to Chas. S. Lewis & Co., Inc. Pump. 3,048,-118, 8–7–62, Cl. 103—87.
Erdco Engineering Corp. : *See*—
Hepner, Charles. 3,029,007.
Erdely, Ladislas, to Pechiney Compagnie de Produits Chimiques et Electrometallurgiques. Oceanographic sampling. 3,069,905, 12–25–62, Cl. 73—170.
Erdelyi, Ferenc. Automatically controlled rolling mill for the production of cutting tools with rotary working movement. 3,031,553, 4–24–62, Cl. 219—7.5.
Erdelyi, Ferenc. Hydraulic system for controlling the movements of automatically working machines. 3,067,583, 12–11–62, Cl. 60—52.
Erdey, Laszlo : *See*—
Paulik, Ferenc and J., and Erdey. 3,045,472.
Erdman, Donald D. Duck retrieving device. 3,046,687, 7–31–62, Cl. 43—1.
Erdmann, Dietrich : *See*—
Jacobi, Ernst, and Erdmann. 3,042,579.
Erdmann, Hans, to Waldes Kohinoor, Inc. Retaining-ring assembly tools. 3,015,882, 1–9–62, Cl. 29—229.
Erdmann, Hans, to Alfred Teves Maschinen-und Armaturenfabrik KG. Rotary hydrostatic machine. 3,024,736, 3–13–62, Cl. 103—136.
Erdmann, Hans, to Alfed Teves, Maschinen- und Armaturenfabrik KG. Rotary hydrostatic machine. 3,031,975, 5–1–62, Cl. 103—136.
Erdmann, Hans, to Waldes Kohinoor, Inc. Tools for assembling bowed open retaining rings on grooved shafts and the like. 3,040,419, 6–26–62, Cl. 29—212.
Erekson, Arthur B. : *See*—
Duncan, Robert E., and Erekson. 3,033,132.
Erekson, Arthur B., to The Borden Co. Container for foods. 3,035,753, 5–22–62, Cl. 229—51.
Erenberg, Victor, and G. J. Peck, to Superior Bedding Co. Mattress construction. 3,046,574, 7–31–62, Cl. 5—351.
Erga, Olav, and S. G. Terjesen, to Elektrolemisk A/S. Process and apparatus for removing HF from gases from aluminum furnaces. 3,064,408, 11–20–62, Cl. 55—71.
Ergin, Erdem I. : *See*—
Chien, Kun L., Ergin, and Ling. 3,042,007.
Erhardt, John E., Jr. : *See*—
Baughman, George M., and Erhardt. 3,059,612.
Erichsen, Herman W. : *See*—
Schilling, Arthur R., and Erichsen. 3,025,359.
Erickson, Albert S. Ship salvaging apparatus. 3,053,218, 9–11–62, Cl. 114—54.
Erickson, Anton F., to General Motors Corp. Brake grease guard. 3,027,975, 4–3–62, Cl. 184—106.
Erickson, Anton F., to General Motors Corp. Brake actuator. 3,027,981, 4–3–62, Cl. 188—78.
Erickson, Anton F., to General Motors Corp. Cylinder liner. 3,033,183, 5–8–62, Cl. 123—41.69.
Erickson, August : *See*—
Anderson, Chester A. 3,018,713.
Erickson, Bruce G., A. T. Metcalf, Jr., and E. C. Schuster, to Nordberg Mfg. Co. Automatic power plant system. 3,016,-690, 1–16–62, Cl. 60—16.
Erickson, C. E., Co., Inc. : *See*—
Erickson, Robert L. 3,062,329.
Erickson, Carl L. : *See*—
Bianchi, Icilio W., Jr., and Erickson. 3,026,997.
Erickson, Cecil J. : *See*—
Erickson, Roy C. 3,018,107.
Erickson, Cecil J., deceased; R. C. Erickson, administrator. Coin operated game board. 3,018,107, 1–23–62, Cl. 273—136.
Erickson, Charles D., to A. O. Smith Corp. Control mechanism for fluid dispensing device. 3,024,945, 3–13–62, Cl. 222—33.
Erickson, Dennis E., and D. W. McKee, to Clark Equipment Co. Lift truck. 3,031,091, 4–24–62, Cl. 214—75.
Erickson, Donald L., to Addressograph-Multigraph Corp. Record system and components. 3,055,298, 9–25–62, Cl. 101—426.
Erickson, Edward B., K. L. Jacobsen, G. R. Giusti, J. M. Merrill, and W. V. Smith, to United States Rubber Co. Automatic tire carcass loading apparatus. 3,053,400, 9–11–62, Cl. 214—1.
Erickson, Eugene E., to United States of America, Atomic Energy Commission. Continuous treatment apparatus. 3,034,868, 5–15–62, Cl. 23—267.
Erickson, Harold E., N. E. and C. V. Nelson, and D. L. Schubert; said Erickson assor. to said Schubert and said N.E. and C. V. Nelson assors to Industrial Development Co. Mat edge press apparatus. 3,019,478, 2–6–62, Cl. 18—4.
Erickson, Harold E., N. E. and C. V. Nelson, and D. L. Schubert; said Erickson assor. to said Schubert and said N.E. and C. V. Nelson assors. to Industrial Development Co. Mat-press deckle assembly. 3,019,479, 2–6–62, Cl. 18—4.
Erickson, Harry H. Protective devices for plant life. 3,055,-143, 9–25–62, Cl. 47—1.
Erickson, Howard L. : *See*—
Dahl, Robert R., Erickson, and Golden. 3,062,992.
Erickson, John J., and E. J. Nallin, to International Business Machines Corp. Magnetic core gate. 3,060,322, 10–23–62, Cl. 307—88.
Erickson, John P. Portable dock. 3,043,109, 7–10–62, Cl. 61—48.
Erickson, John R., to Norton Co. Cut-off wheel. Re. 25,303, 12–18–62, Cl. 51—206.
Erickson, Julius L. E., and M. Z. Woskow, to The Giraudan Corp. Preparation of 1-alkenyl alkyl ethers. 3,061,649, 10–30–62, Cl. 260—611.
Erickson, Karl L., to Amerock Corp. Removable hinge. 3,059,271, 10–23–62, Cl. 16—177.
Erickson, Leonard A., to Drumstick, Inc. Cup dispenser. 3,032,237, 5–1–62, Cl. 221—223.
Erickson, Leonard R. Automatic locking self-leveling ladder. 3,027,969, 4–3–62, Cl. 182—202.
Erickson, Lowell H. : *See*—
Merrill, Marcellus S., and Erickson. 3,049,927.
Erickson, Paul F. : *See*—
Lytle, John P., and Erickson. 3,035,574.
Erickson, Paul N., to Evans Products Co. Refrigerated car. 3,033,130, 5–8–62, Cl. 105—396.
Erickson, Reginald T., to Star-Kist Foods, Inc. Canning of fish. 3,050,403, 8–21–62, Cl. 99—188.
Erickson, Robert L., to C. E. Erickson Co., Inc. Disc brake mechanism. 3,062,329, 11–6–62, Cl. 188—73.
Erickson, Theodore D. : *See*—
Bauer, Myron J., Erickson, Kane, Neuman, and Scheurich. 3,052,440.
Erickson Tool Co. : *See*—
Benjamin, Milton L. 3,035,845.
Benjamin, Milton L., and Syrene. 3,049,033.
Benjamin, Milton L., and Syrene. 3,065,580.
Benjamin, Milton L., and Walker. 3,035,461.
Benjamin, Milton L., and Walker. 3,064,985.
Erickson, Virginius R. : *See*—
Boughton, Sidney H., and Erickson. 3,046,557.
Erickson, Virginius R., to Ammo Products, Inc. Safety shield for explosively-actuated stud-driving tool. 3,044,070, 7–17–62, Cl. 1—44.5.
Erickson, Warren E. : *See*—
Eddison, William B., and Erickson. 3,029,499.
Erickson, Warren O., and W. J. Connolly, to Allied Chemical Corp. Unsaturated polyester resins containing a lithium halide as stabilizer and method of making. 3,061,580, 10–30–62, Cl. 260—45.4.
Erico Products, Inc. : *See*—
Gelfand, Leonard. 3,020,608.
Havener, Leslie N. 3,055,686.
Rejdak, Melvin F. 3,020,610.
Rejdak, Melvin F. 3,033,672.
Rejdak, Melvin F. 3,049,437.
Ericson, Alf E. Screw starter. 3,033,254, 5–8–62, Cl. 145—50.
Ericson, Alvin E. : *See*—
Plach, Alvin H., and Ericson. 3,053,723.
Ericson, Lloyd J., to Sheller Mfg. Corp. Apparatus for molding hollow articles. 3,041,671, 7–3–62, Cl. 18—26.
Ericson, Sidney A., and H. W. Parrott, to The Bassick Co. Height adjusting cam lock. 3,046,054, 7–24–62, Cl. 297—353.
Ericson, Walter M., to Airson Co., Inc. Ceiling with controlled ventilation. 3,069,991, 12–25–62, Cl. 98—40.
Ericsson, Gunnar L., to Signode Steel Strapping Co. Strap sealing tool with full stroke compelling means. 3,040,606, 6–26–62, Cl. 81—9.1.
Ericsson, Karl E. : *See*—
Dahlgren, Tore V., and Ericsson. 3,070,154.
Ericsson, Karl E., to Max Sievert Aktiebolaget. Heating device for small calorie requirements. 3,065,745, 11–27–62, Cl. 126—350.
Ericsson, Karl F., to Svenska Metallverken, Aktiebolaget. Method for the manufacture from sheet metal of hollow objects having a wall thickness in the closed end exceeding the wall thickness of the starting material. 3,053,195, 10–16–62, Cl. 29—1.21.
Ericsson Telephones Ltd. : *See*—
Edwards, Huw B., and Anderson. 3,042,843.
Sinclair, William. 3,022,502.
Turner, Ian, and Revitt. 3,025,427.
Ericsson, Sten Y., and L. E. Stiernstrom, to Aktiebolaget Astra Apolekarnes Kemiska Fabriker. Anti-infectant topical preparations. 3,065,139, 11–20–62, Cl. 167—72.
Ericsson Telephones Ltd. : *See*—
Dawson, John. 3,065,304.
Steiner, Frederick. 3,054,997.
Erie, Loren E., to Hydrahone Equipment Co. Shrink tank. 3,053,265, 9–11–62, Cl. 134—125.
Erie Mfg. Co. : *See*—
Engholdt, Richard K. 3,022,743.
Engholdt, Richard K. 3,042,357.
Erie Mining Co. : *See*—
Borgel, Bernard F. 3,021,126.
Erie Resistor Corp. : *See*—
Gray, Robert B. 3,053,934.
Rue, Charles V. 3,033,907.
Erikson, Evans W., L. E. Miller, and N. L. Schmitz, to Sundstrand Corp. Static frequency comparator. 3,064,189, 11–13–62, Cl. 324—79.
Erikson, Jay A., A. R. Stiles, and C. H. Tieman, to Shell Oil Co. Isomerization process for converting phosphate triester compounds to more insecticidally active isomers. 3,065,257, 11–20–62, Cl. 260—461.
Erikson, Robert W., to Sundstrand Corp. Fuel unit. 3,069,-177, 12–18–62, Cl. 277—93.

Eriksson, Alf A. A. to Svenska Precisionsverktyg Aktiebolaget. Screw threads cutting device. 3,032,156, 5–1–62, Cl. 192—56.
Eriksson, Bengt, to Allmanna Svenska Elektriska Aktiebolaget. Method and means for heat exchange of gases. 3,028,222, 4–3–62, Cl. 23—204.
Eriksson, Erik F., to Calor & Sjogren, Aktiebolaget. Devices for automatic control of the discharge from an apparatus for continuous treatment of material. 3,054,532, 9–18–62, Cl. 222—56.
Eriksson, Ernst A., to Fremlee Development Corp. Rotatable cleaning device. 3,024,883, 3–13–62, Cl. 192—3.5.
Eriksson, Ernst A. Electrical connector. 3,056,941, 10–2–62, Cl. 339—72.
Eriksson, George J., and B. Hillberg, to Superior Concrete Accessories, Inc. Expansion bolt. 3,065,659, 11–27–62, Cl. 85—2.8.
Eriksson, Karl E., to Max Sievert Aktiebolaget. Gas torch for welding of plastic materials. 3,035,632, 5–22–62, Cl. 158—2.4.
Erisman, Maurice J., N. L. Francis, and E. C. Antonson, to Link-Belt Co. Rotary coolers. 3,050,868, 8–28–62, Cl. 34—136.
Erismann, Paul. Frames comprising columns and vertically adjustable supports. 3,054,511, 9–18–62, Cl. 211—147.
Erkelens, Johannes, and J. Nijboer, to North American Philips Co., Inc. Machine comprising an intermittently rotary table. 3,062,362, 11–6–62, Cl. 198—209.
Erkelens, Johannes, and J. Nijboer, to North American Philips Co., Inc. Apparatus for assembling parts. 3,066,396, 12–4–62, Cl. 29—203.
Erkelens, Paul J.: *See*—
De Heer, Tallechienus, and Erkelens, 3,064,473.
Erkert, James S., to National Lock Co. Self-locking gunnel bumpers. 3,019,758, 2–6–62, Cl. 114—219.
Erlandson, Paul M., to Continental Can Co., Inc. Electrical separation of welded can bodies. 3,068,345, 12–11–62, Cl. 219—68.
Erlbacher, Robert W. Propeller straightening apparatus. 3,032,092, 5–1–62, Cl. 153—32.
Erle, Donald Z., to Textron Inc. Flow proportioner. 3,033,-219, 5–8–62, Cl. 137—100.
Erlebach, Woodland E., and D. T. Nishimura, to Atomic Energy of Canada Ltd. Removal of ruthenium and cesium. 3,018,161, 1–23–62, Cl. 23—35.
Erlebacher, Gunther, to Aero Research Instrument Co., Inc. Thermocouples. 3,048,641, 8–7–62, Cl. 136—4.
Erlenbach, David N.: *See*—
Young, Merrill A., and Erlenbach, 3,050,979.
Erlenmeyer, Hans, S. Fallab, and P. Hemmerich, to Ciba Corp. Pyrimido-[4 :5-b]-quinoxalines and a process for their manufacture. 3,048,578, 8–7–62, Cl. 260—211.3.
Erlich, Victor L.: *See*—
Simpson, Heyward V., and Erlich, 3,052,510.
Erlich, Victor L., to Reeves Brothers, Inc. Method of bonding fibrous structures made from fibers or filaments of polyolefine polymers. 3,049,466, 8–14–62, Cl. 156—334.
Erlichman, Irving, to Universal Controls, Inc. Bag locking mechanism. 3,033,442, 5–8–62, Cl. 232—15.
Erlichman, Irving, to Polaroid Corp. Photographic processes and devices. 3,037,670, 6–5–62, Cl. 222—80.
Erlewine, Richard H., and C. W. Richter, to General Plastics Corp. Electrically lighted ornament. 3,041,446, 6–26–62, Cl. 240—10.
Erly-Fat Livestock Feed Co.: *See*—
Lent, Albert. 3,044,877.
Ermarkaryan, Jiray. Rose flavoring food additive. 3,060,033, 10–23–62, Cl. 99—140.
Ermlich, John R.: *See*—
Rodman, Frank A., and Ermlich. 3,025,749.
Ernault-Batignolles, H., S.A.: *See*—
Le Brusque, René J. N. 3,020,791.
Le Brusque, René J. N. 3,069,948.
Erndt, Hans: *See*—
Butter, Otto, and Erndt. 3,060,485.
Erner, William E., to Houdry Process Corp. Alkyl acridines. 3,019,227, 1–30–62, Cl. 260—279.
Erner, William E., to Houdry Process Corp. Preparation of dimethylpiperazine. 3,029,240, 4–10–62, Cl. 260—268.
Erner, William E., to Air Products and Chemicals, Inc. Catalyst composition and process of preparing polyurethane foam containing same. 3,042,632, 7–3–62, Cl. 260—2.5.
Erner, William E., to Air Products and Chemicals, Inc. Metallo-azine pigments. 3,052,677, 9–4–62, Cl. 260—242.
Erner, William E., A. Farkas, and H. Graboyes, to Air Products and Chemicals, Inc. Addition compounds of diazabicyclo-octane. 3,057,026, 5–29–62, Cl. 260—268.
Erner, William E., and H. A. Green, to Air Products and Chemicals, Inc. Process of preparing 2-olefinic imidazoles. 3,050,520, 8–21–62, Cl. 260—240.
Erner, William E., H. A. Green, and G. A. Mills, to Air Products and Chemicals, Inc. Preparation of pyrimidines. 3,050,523, 8–21–62, Cl. 260—251.
Ernest, Dale S., to United States of America, Navy. Shrouded nozzle. 3,039,264, 6–19–62, Cl. 60—35.55.
Ernest, Franklin M., to Allied Chemical Corp. Production of chlorine dioxide. 3,058,808, 10–16–62, Cl. 23—152.
Ernest, Robert F.: *See*—
Booth, Harvey J., Ernest, and Fostey. 3,059,623.
Erni, Gustav A.: *See*—
Styner, Fritz, and Chlouba. 3,017,079.
Ernisse, Paul J., and W. H. Horton, to Eastman Kodak Co. Photographic shutter. 3,033,092, 5–8–62, Cl. 95—59.
Ernst, Gunther: *See*—
Eggers, Gerhard, Dumez, and Ernst. 3,058,691.
Eggers, Gerhard, and Ernst. 3,020,714.
Eggers, Gerhard, Ernst, Gire, and Tremouilles. 3,036,-430.
Ernst, Gunther, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Aircraft controls. 3,041,-015, 6–26–62, Cl. 244—52.
Ernst, Günther, and G. Eggers, to Societe Nationale d-Etude et de Moteurs d'Aviation. Electro-hydraulic jack device for controlling the stability of aircraft. 3,018,988, 1–30–62, Cl. 244—77.
Ernst, Hans, to Demag-Elektrometallurgie G.m.b.H. Arc furnace electrode control means. 3,045,144, 7–17–62, Cl. 314—31.
Ernst, Hans, W. A. Haggerty, and E. L. Ritter, to The Cincinnati Milling Machine Co. Method and apparatus for grinding drills. 3,037,329, 6–5–62, Cl. 51—43.
Ernst, Hellmut, to Maschinenfabrik Augsburg-Nurnberg A.G. Floating crane. 3,018,901, 1–30–62, Cl. 212—3.
Ernst, John L.: *See*—
Fischer, Wilbur F., and Ernst. 3,059,682.
Martin, James G., Ernst, Jankowski, and Schetelich. 3,023,195.
Ernst, John M., to American Machine & Foundry Co. Bowling ball return and storage device. 3,042,402, 7–3–62, Cl. 273—47.
Ernst, John M., G. A. Gruss, and H. W. Martin, to American Machine & Foundry Co. Bowling pins. 3,025,061, 3–13–62, Cl. 273—82.
Ernst, Robert, to Textilana Corp. Process for the production of fatty hydroxyalkylamides. 3,024,260, 3–6–62, Cl. 260—404.
Ernst, Robert, and M. Comar, to Textilana Corp. Color stabilized n-acyl alkane sulfonic acid salts and methods for production of the same. 3,046,231, 7–24–62, Cl. 252—152.
Ernst, Walter: *See*—
Krafft Frederick G., and Ernst. 3,015,212.
Ernstberger, Alfred F.: *See*—
Jepson, Ivar, and Ernstberger. 3,068,503.
Erpenbach, Heinz: *See*—
Sennewald, Kurt, Born, Erpenbach, and Dobek. 3,022,332.
Errede, Louis A.: *See*—
Davis, Horace R., Errede, and Landrum. 3,053,909.
Davis, Horace R., Errede, and Landrum, 3,055,931.
Errede, Louis A., B. F. Landrum, and H.-R. Davis, to Minnesota Mining and Mfg. Co. Polymers and preparation thereof. 3,032,541, 5–1–62, Cl. 260—88.3.
Errichiello, Dominic: *See*—
Worobey, Raymond G., and Errichiello. 3,070,748.
Errichiello, Dominic, to Motorola, Inc. Housing for electronic equipment. 3,048,747, 8–7–62, Cl. 317—101.
Erskine, George B., and S. J. Gartner, to Emporium Specialties Co., Inc. Work support head and mandrel for the manufacture of studded electrodes. 3,044,789, 7–17–62, Cl. 279—2.
Erskine, Robert J., to Wean Engineering Co., Inc. Preparation of strip-like material for processing. 3,042,334, 7–3–62, Cl. 242—79.
Erst, Stephen A., to International Telephone and Telegraph Corp. Frequency modulated radar system employing two sinusoidal modulating frequencies. 3,068,471, 12–11–62, Cl. 343—14.
Ertell, Glenn G., and J. M. Rhoades, to General Electric Co. Tracer control system. 3,062,996, 11–6–62, Cl. 318—162.
Ertelt, Henry R.: *See*—
Wilson, Ernest V., Ertelt, and Keeber. 3,036,969.
Erteszek, Olga. Strapless brassiere. 3,030,961, 4–24–62, Cl. 128—465.
Erteszek, Olga. Slip-type under garment. 3,066,308, 12–4–62, Cl. 2—212.
Ertl, Alfred, and F. Hermann, to Klepper-Werke, Firma. Support structure for inflated tubes in collapsible boats. 3,049,732, 8–21–62, Cl. 9—8.
Ertl, Walter, and J. Ptacovsky, to "Elin" Aktiengesellschaft fur elektrische Industrie. Thrust bearing for large machines, especially electric machines. 3,033,619, 5–8–62, Cl. 308—160.
Ervin, Vernon J.: *See*—
Potter, Claud N., and Ervin. 3,067,731.
Erwin, Frederick J., Jr., and L. P. Larson, to Crown Zellerbach Corp. Mandrel device for packing a container with a void in the bottom closure. 3,031,821, 5–1–62, Cl. 53—263.
Erwin, Jesse E., to United States of America, Atomic Energy Commission. Mechanically-joined plate-type aluminum-clad fuel element. 3,068,160, 12–11–62, Cl. 204—154.2.
Erwin, Weldon C. Combination eye cup and eye fluid applicator. 3,016,898, 1–16–62, Cl. 128—249.
Erzer, John K., and E. E. Martin, to General Electric Co. Inter-truck guiding control. 3,054,361, 9–18–62, Cl. 105—168.
Escambia Chemical Corp.: *See*—
Holdsworth, Robert S. 3,057,831.
Holdsworth, Robert S., and Smith. 3,017,399.
Holdsworth, Robert S., and Smith. 3,063,977.
Esch, Carleton B., to Rings, Inc. Tile ring. 3,054,266, 9–18–62, Cl. 61—11.

Esch, Fred H., to United States of America, Navy. Tension cord support arrangement for satellite internal structure. 3,043,644, 7–10–62, Cl. 312—352.
Esch, Harry F. Decorative display light fixture. 3,025,389, 3–13–62, Cl. 240—10.
Esch, Henry, to Kaiser Aluminum & Chemical Corp. Crimping apparatus. 3,047,042, 7–31–62, Cl. 153—1.
Eschenburg, William A., to Yates-American Machine Co. Power operated planer with driven feed mechanism and adjustable table. 3,067,788, 12–11–62, Cl. 144—117.
Eschenfelder, Andrew H., to International Business Machines Corp. High density magnetic recording tape. 3,031,341, 4–24–62, Cl. 117—138.8.
Eschenmoser, Albert, to Ciba Pharmaceutical Products Inc. New aminomethyl-steroids and process for their manufacture. 3,033,854, 5–8–62, Cl. 260—239.5.
Escher, Edward P., to Screw Conveyor Corp. Pusher-type conveyor. 3,047,128, 7–31–62, Cl. 198—174.
Escher, Edward P., to Screw Conveyor Corp. Variable pitch harvester combine auger. 3,060,665, 10–30–62, Cl. 56—21.
Escher, William J. D., to United States of America, National Aeronautics and Space Administration. Attitude and propellant flow control system and method. 3,070,330, 12–25–62, Cl. 244—76.
Escher Wyss Aktiengesellschaft : *See*—
Flatt, Friedrich, 3,069,342.
Gregorig, Romano, 3,035,818.
Heer, Walter. 3,057,234.
Loch, Erwin. 3,049,383.
Meienberg, Hans, 3,043,969.
Ruegg, Ernst. 3,049,241.
Spiliman, Werner. 3,043,763.
Escher Wyss G.m.b.H. : *See*—
Heuschkel, Hans. 3,045,921.
Heuschkel, Hans. 3,049,301.
Schinn, Ernst. 3,035,962.
Thommel, Karl A., and Brumme. 3,066,921.
Eschinasi, Emile H. : *See*—
Eschinazi, Habib E. 3,019,263.
Eschinazi, Habib E. 3,019,264.
Eschinazi, Habib E. 3,019,265.
Eschinazi, Habib-Emile. 3,023,244.
Eschinazi, Habib E. 3,052,730.
Eschinazi, Habib-Emile. 3,050,566.
Eschinazi, Habib E., now by judicial change of name E. H. Eschinasi, to The Givaudan Corp. Process for preparing 1-acetyl-2,2,3-trimethylcyclobutane. 3,019,263, 1–30–62, Cl. 260—586.
Eschinazi, Habib E., now by judicial change of name E. H. Eschinasi, to The Givaudan Corp. 2-(2,2,3-trimethylcyclobutyl)-hepta-2,4-dien-6-one. 3,019,264, 1–30–62, Cl. 260—586.
Eschinazi, Habib E., now by judicial change of name E. H. Eschinasi, to The Givaudan Corp. Process for preparing irones. 3,019,265, 1–30–62, Cl. 260—587.
Eschinazi, Habib-Emile, now by judicial change of name E. H. Eschinasi, to The Givaudan Corp. Process for making ionone aldehyde. 3,023,244, 2–27–62, Cl. 260—586.
Eschinazi, Habib-Emile, now by change of name Emile H. Eschinasi, to The Givaudan Corp. 3-(2,2,3-trimethylcyclobutyl)-but-1-yn-3-ol and process for preparing same. 3,050,566, 8–21–62, Cl. 260—617.
Eschinazi, Habib E., now by change of name E. H. Eschinasi, to The Givaudan Corp. Hydrogenation of cis-3,-epoxy-p-menthane. 3,052,729, 9–4–62, Cl. 260—631.
Eschinazi, Habib E., now by change of name E. H. Eschinasi to The Givaudan Corp. Process for making citronellol and intermediates therefor and novel intermediates made thereby. 3,052,730, 9–4–62, Cl. 260—631.5.
Esco Corp. : *See*—
Ehmann, Leslie G. 3,064,706.
Eyolfson, Paul. 3,021,626.
Larsen, Paul V., Eyolfson, Hill, and Dils. 3,026,947.
Smith, Dan L. 3,059,282.
Esco Elevators, Inc. : *See*—
Loughridge, Robert F. 3,065,738.
Esco S.A. : *See*—
Von Allmen, Pierre. 3,029,991.
Esenther, Glenn R., T. C. Allen, J. E. Casida, and R. D. Shenefelt, to Wisconsin Alumni Research Foundation. Decayed wood extract as termite attractant. 3,070,495, 12–25–62, Cl. 167—48.
Esenwein, Albert, and H. Koch, to Kurt Korber & Co., K.G. Apparatus for treating tobacco products. 3,039,201, 6–19–62, Cl. 34—48.
Eshbaugh, Jesse E., and J. A. McDougal, to General Motors Corp. Thermosensitive radiator caps. 3,047,235, 7–31–62, Cl. 236—92.
Eshelman, Robert W., to King-Seeley Thermos Co. Support structure for collapsible shelters. 3,054,113, 9–18–62, Cl. 135—4.
Eshner, Allen J., to United States of America, Army. Method of oxidizing titanium metal. 3,034,916, 5–15–62, Cl. 117—33.3.
Eshner, Allen J., and R. W. Boydston. Precision thickness control for vacuum deposition of titanium and other metals for optical surfaces. 3,018,193, 1–23–62, Cl. 117—107.
Eskew, Roderick K. : *See*—
Cording, James, Jr., and Eskew. 3,038,813.
Eskew, Roderick K., to United States of America, Agriculture. Process for increasing bulk density of potato flakes. 3,021,223, 2–13–62, Cl. 99—207.
Eskilson, Ewald O. P. : *See*—
Moser, Henry W., Grobman, and Eskilson. 3,041,968.
Eskin, Samuel G., to The Dole Valve Co. Gas water heater valve construction. 3,029,026, 4–10–62, Cl. 236—32.
Eskin, Samuel G., to Antioch College. Thermal element. 3,053,092, 9–11–62, Cl. 73—368.3.
Eskridge, Brewster B., to American Enka Corp. Manufacture of viscose rayon. 3,026,169, 3–20–62, Cl. 18—54.
Eskridge, Brewster B., to American Enka Corp. Manufacture of pigmented viscose rayon. 3,033,697, 5–8–62, Cl. 106—166.
Eskridge, Harold E., ½ to C. B. Fischbach. Combined suction pump, storage container and dispenser. 3,058,627, 10–16–62, Cl. 222—210.
Eskridge, Harold E., and W. O. Johnson, to Weather-Seal, Inc. Continuous engagement type elongate hinge. 3,015,-839, 1–9–62, Cl. 16—136.
Eskridge, Harold E., and W. O. Johnson, to Weather-Seal, Inc. Continuous hinge. 3,015,840, 1–9–62, Cl. 16—172.
Eslien, Howard W. : *See*—
Broetzman, Norton O., and Elfe. 3,042,121.
Esling, Eugene D. : *See*—
Hofmann, John J., and Esling. 3,020,376.
Esmay, Paul O. Row seeder. 3,031,984, 5–1–62, Cl. 111—82.
Espenlaub, Edward T., and H. Menges. Electric arc welding apparatus. 3,045,107, 7–17–62, Cl. 219—127.
Espenlaub, Walter C., to Hazeltine Research, Inc. Matrixing apparatus for color-television signals. 3,056,853, 10–2–62, Cl. 178—5.4.
Espenschied, Friedrich, to Motoren-Werke Mannheim A.G vorm Lanz, Abt. Stat Motorenbau. Internal combustion engines. 3,058,452, 10–16–62, Cl. 123—32.
Esperseth, Maurice H., and J. E. Ostline, to Automatic Electric Laboratories, Inc. Paystation customer dialling in a toll ticketing telephone system. 3,019,294, 1–30–62, Cl. 179—6.3.
Esposito, Angelo. Jig for a power saw. 3,044,507, 7–17–62, Cl. 143—47.
Espriu O., Francisco. Ignition system for internal combustion engine. 3,028,524, 4–3–62, Cl. 315—214.
Espy, Ronald H., to Armco Steel Corp. Welding method and product. 3,066,215, 11–27–62, Cl. 219—74.
Essaness Theater Corp. : *See*—
Stancher, Joseph E. 3,018,470.
Esscolator Mfg. Corp. : *See*—
White, Herbert A., Jr. 3,031,178.
Esseling, Ludwicus A. L., to North American Philips Co., Inc Semi-conductive electrode system. 3,015,761, 1–2–62, Cl. 317—234.
Esseistyn, James O., to Sylvania Electric Products, Inc. Circuit board lifter tools. 3,050,841, 8–28–62, Cl. 29—268.
Esser, George W., to McGraw-Edison Co. Record-reproduce system. 3,021,394, 2–13–62, Cl. 179—100.1.
Esser, Heinz : *See*—
Von Brachel, Hanswilli, Esser, Holtschmidt, and Sinn. 3,070,584.
Von Brachel, Esser, and Muller. 3,062,768.
Esser, Paul : *See*—
Heinz, Anton R., Rosahl, Graulich, and Esser. 3,050,509.
Esser, Paul. Method of welding C or similarly shaped chain links. 3,024,347, 3–6–62, Cl. 219—52.
Essex, Alan R., to Avdel Ltd. Blind fastener setting wrench. 3,028,777, 4–10–62, Cl. 81—55.
Essex, Duane A. : *See*—
Hubbard, Wallace L., and Essex. 3,050,111.
Essex Mfg. Co., Inc. : *See*—
Daly, John E. 3,041,025.
Essex Wire Corp. : *See*—
Dowdle, Walter F. 3,020,626.
Elliott, Howard A. 3,041,577.
Gammel, Walter A., Sr. 3,041,562.
Graf, Robert D., Parkins, and Prouty. 3,021,406.
Weber, Leo L. 3,021,455.
Weber, Leo L. 3,021,520.
Weber, Leo L. 3,057,398.
Essig, Henry C., to The West Base Co. Control valve 3,026,082, 3–20–62, Cl. 251—14.
Esso Research and Engineering Co. : *See*—
Aldridge, Clyde L. 3,040,002.
Aldridge, Clyde L. 3,042,696.
Aldridge, Clyde L., and Cull. 3,056,771.
Aldridge, Clyde L., and Hunter. 3,062,766.
Amir, Emanuel M. 3,068,291.
Amis, Maurice B., and Wilson. 3,065,165.
Anderson, James A., Jr., Heinrich, and Hoffmann. 3,068,168.
Andrews, Jack M., Corneil, Peet, and Roquemore. Re. 25,220.
Argabright, Perry A., and Kuntz. 3,030,344.
Argabright, Perry A., and Kuntz. 3,070,470.
Argabright, Perry A., and Schmall. 3,069,446.
Asher, William J., and Epperly. 3,070,542.
Baldwin, Francis P., Robison, Miller, and Powers. 3,039,-906.
Barr, Frank T., and Black. 3,050,454.
Bartlett, Jeffrey H., and Hughes. 3,057,815.
Bartlett, Jeffrey H., Kirshenbaum, Banes, and Muessig. 3,023,185.
Bartok, William, and Heath. 3,061,646.
Baumann, George P., and Lipuma. 3,044,952.
Bennett, Rufus B., and Hederhorst. 3,038,789.
Bergougnou, Maurice A. 3,053,917.

Esso Research and Engineering Co.: *See*—Continued
Bolch, Adrian D., Jr., and Felps. 3,023,607.
Brown, John A. 3,020,270.
Butler, Roger M., and Kartzmark. 3,016,350.
Cahn, Robert P. 3,059,037.
Cahn, Robert P., and Di Miceli. 3,058,893.
Cain, William P., Makowski, and Bislo. 3,062,795.
Clarke, John V., Jr., Metro, and Smith. 3,068,084.
Conn, Mervin E. 3,051,314.
Connell, John R. 3,067,766.
Corbett, Luke W. 3,061,538.
Cottle, Delmer L. 3,018,275.
Cottle, Delmer L., Minckler, and Fefer. 3,037,968.
Cottle, Delmer L., Minckler, and Lemiszka. 3,042,662.
Craven, William J., Metro, and Matuszak. 3,019,188.
Craven, William J., and Wiese. 3,026,344.
Cull, Neville L., Baker, and Hamner. 3,025,254.
Cull, Neville L., Dunlop, and Gleason. 3,068,300.
Cull, Neville L., Hunter, Verbois, and Ray. 3,048,562.
Cull, Neville L., Lambert, Carr, and Berkeley. 3,050,569.
Cull, Neville L., and Parker. 3,038,923.
Cull, Neville L., and Ray. 3,035,013.
Dauber, Louis, and Engel. 3,067,129.
De Pierri, William G., Jr., Edwards, and Boynton. 3,052,741.
Destremps, Edward A., and Gornowski. 3,043,753.
De Vries, Arthur D., and Wall. 3,040,111.
Dimler, William A., Jr., and Gallagher. 3,065,192.
Dimler, William A., Jr., Schetelich, and Murphy. 3,057,930.
Dimler, William A., Jr., and Stahl. 3,065,258.
Di Piazza, James T. 3,062,630.
Draughon, John M, and Van Voorhies. 3,050,993.
Drews, William P. 3,032,495.
Dudley, Arthur R., Roesler, and Allison. 3,043,431.
Dunlop, Donald D., Koontz, and Hillard. 3,067,268.
Earhart, Harold W., and De Pierri. 3,022,355.
Earhart, Harold W., and De Pierri. 3,030,427.
Earhart, Harold W., and Nicholson. 3,031,513.
Eliert, Henry G., and Kimberlin. 3,023,157.
Eng, Jackson. 3,039,953.
Eng, Jackson, and Butler. 3,029,575.
Epperly, William R., Tuttle, Feldbauer, and Tyson. 3,063,934.
Fenske, Merrell R. 3,036,117.
Fenske, Merrell R., McCormick, and Lawroski. 3,050,448.
Fischer, Wilbur F., and Ernst. 3,059,682.
Fischl, Fred B., and Bove. 3,056,666.
Fusco, James V., and Robison. 3,039,978.
Gardner, Irwin J., Robison, and Makowski. 3,041,304.
Gensheimer, David E., and Brown. 3,061,654.
Gessler, Albert M. 3,024,092.
Gessler, Albert M. 3,054,662.
Gessler, Albert M., and Haslett. 3,037,954.
Gessler, Albert M., and Haslett. 3,070,557.
Gessler, Albert M., and Sparks. 3,070,568.
Gessler, Albert M., and Sparks. 3,070,570.
Gladrow, Elroy M., Ruhnke, and Kimberlin. 3,055,841.
Gleason, Anthony H. 3,025,329.
Gleason, Anthony H. 3,056,805.
Gordon, Charles W., Manne, and Morrow. 3,052,625.
Gudelis, David A. 3,046,326.
Gunderloy, Frank C., Jr. 3,019,249.
Guyer, Walter R. F., and Arundale. 3,022,252.
Hall, Christopher H., Hanvill, and Conley. 3,039,138.
Haney, Roy E. D., and Clarke. 3,045,119.
Harvey, Robert H. 3,053,759.
Hawley, Roger S., Clayton, and Buckley. 3,055,857.
Heath, Carl E. 3,056,833.
Heath, Carl E., and Lucchesi. 3,046,208.
Heath, Carl E., Jr. 3,022,237.
Heath, Carl E., Jr., and Skomoroski. 3,053,898.
Heigl, John J., Wilson, and Lewis. 3,050,994.
Heigl, John J., Wilson, and McArthur. 3,027,083.
Hemminger, Charles E., and Gilliland. 3,046,106.
Heumann, Walter E. 3,054,652.
Hibshman, Henry J., Louis, and Wagner. 3,061,975.
Hirth, Leo J., Spielman, and Landgren. 3,069,480.
Hochgraf, Norman N. 3,047,442.
Hochgraf, Norman N., Schatz, and Tegge. 3,052,665.
Holcomb, Henry A., and Thompson. 3,060,248.
Hollyday, William C., Jr. 3,042,505.
Hunt, William T., Compton, and Bennett. 3,034,654.
Hunter, Edward A. 3,069,374.
Hunter, Edward A., Aldridge, and Gensheimer. 3,051,766.
Hunter, Edward A., Lambert, Segura, and Small. 3,046,244.
Hunter, Edward A., Small, and Miller. 3,062,767.
Huntley, Allan R., and Huebschle. 3,053,642.
Iinyckyj, Stephan, and Ruper. 3,048,479.
Jahan, Christian, and Tournier. 3,067,138.
Jahnig, Charles E. 3,066,017.
Jankowski, Conrad J., and Fischer. 3,023,179.
Jonach, Frederick L. 3,026,722.
Jonach, Frederick L., Edson, and Wilson. 3,016,739.
Jones, William C., Jr. 3,047,992.
Kant, Fred H., Baeder, Hinlicky, and Read. 3,043,770.
Kimberlin, Charles N., Jr., and Gladrow. 3,067,128.
King, Laurence F. 3,053,915.
King, Lewis G., Bernstein, and Dengler. 3,046,235.
Kirshenbaum, Isidor, Mirviss, and Inchalik. 3,030,402.
Esso Research and Engineering Co.: *See*—Continued
Kirshenbaum, Isidor, Muessig, and Hill. 3,042,661.
Klemchuk, Peter P. 3,064,040.
Koenecke, Donald F., and Van Nostrand. 3,030,233.
Kolfenbach, John J., and Gleason. 3,016,701.
Lang, Robert J., and Atlas. 3,067,948.
Lang, Robert J., Schimmenti, and Menke. 3,023,623.
Langer, Arthur W., Jr., Mertzweiller, Gamble, and Tornqvist. 3,063,798.
Langer, Arthur W., Jr., and Tornqvist. 3,032,509.
Langer, Arthur W., Jr., and Tornqvist. 3,032,511.
Langer, Arthur W., Jr., and Tornqvist. 3,047,558.
Leibson, Irving, and Schutze. 3,037,011.
Lemiszka, Theodore, Cottle, and Minckler. 3,028,346.
Lense, Frederick T. 3,061,474.
Lewis, Oliver G. 3,027,723.
Lewis, Oliver G. 3,054,287.
Lippincott, Samuel B., and Morway. 3,060,120.
Lockett, William, Jr. 3,020,240.
Louis, Robert A., and Wagner. 3,061,974.
Lovett, John R. 3,062,798.
Lovett, John R., and Kelley. 3,040,014.
Lovett, William E., and Gunderloy. 3,070,430.
Lucchesi, Peter J., and Tarnay. 3,018,237.
Luring, William S., Glaser, Foust, and Soltis. 3,060,921.
Mabie, Henry C. 3,045,325.
MacLaren, Donald D. 3,025,230.
Magee, Ellington M. 3,032,588.
Maisel, Daniel S., Ryan, and Cox. 3,045,048.
Martin, James G., Ernst, Jankowski, and Schetelich. 3,023,195.
Mason, Ralph B. 3,037,843.
Mattox, William J. 3,036,134.
Mattox, William J., and Kimberlin. 3,030,431.
Matuszak, Alfred H. 3,016,353.
Matuszak, Alfred H., Maisel, and Carrier. 3,048,623.
Matuszak, Alfred H., and Metro. 3,058,911.
Matuszak, Alfred H., Metro, and Schwarz. 3,029,204.
McArthur, Donald S., Lucchesi, and Long. 3,055,818.
McCall, Patrick P. 3,034,878.
McTurk, William E., Lifson, and Duncan. 3,061,420.
Mercier, Philip L., and Eby. 3,056,759.
Michaels, Adlai E., Nostrand, and Tutwiler. 3,058,818.
Michaels, Adlai E., and Winard. 3,015,546.
Miller, Alfred L. 3,048,556.
Miller, Alfred L., Baldwin, and Robison. 3,052,580.
Miller, Alfred L., Rae, and Hubbard. 3,054,690.
Miller, Alfred L., Robison, and Petro. 3,022,260.
Minckler, Leon S., Jr., and Cottle. 3,051,680.
Minckler, Leon S., Jr., Cottle, and Muessig. 3,057,834.
Minckler, Leon S., Jr., Fefer, and Cottle. 3,033,837.
Minckler, Leon S., Jr., Lemiszka, and Cottle. 3,028,373.
Mirviss, Stanley B. 3,067,235.
Morgan, Walter A. 3,020,458.
Morgan, Walter A. 3,060,299.
Moritz, Karsten H., and Hammer. 3,061,539.
Morris, Arthur L. 3,047,484.
Morrow, Morris R., and Suttle. 3,049,874.
Morway, Arnold J., and Bartlett. 3,036,970.
Morway, Arnold J., Bartlett, and Muessig. 3,044,960.
Morway, Arnold J., and Daniels. 3,033,787.
Morway, Arnold J., Daniels, and Spray. 3,018,249.
Morway, Arnold J., Munday, Bartlett, and Muessig. 3,044,961.
Moser, John F., Jr. 3,022,246.
Mosesman, Max A. 3,069,352.
Mozell, Thomas M., and Gleason. 3,026,279.
Munday, John C. 3,063,704.
Munsell, Monroe W., and Wythe. 3,053,766.
Murray, John L., and Westlund. 3,046,225.
Neblett, Richard F., and Lovett. 3,054,666.
Nelson, Jerome W., and Cook. 3,053,975.
Neureiter, Norman P. 3,067,252.
Morway, Arnold J., and Munday. 3,065,179.
Nunn, Roland C., and Brewster. 3,065,178.
Oswald, Alexis A. 3,050,564.
Oswald, Alexis A., Rupar, and Greenwood. 3,043,824.
Oswald, Alexis A., Rupar, Inyckyj, and Nöel. 3,016,349.
Palcanis, Franklin G., and Lynam. 3,050,092.
Panzer, Jerome, and Westlund. 3,019,187.
Pattison, Hubert A., Jr., and Briggs. 3,057,390.
Pennington, Robert E. 3,047,613.
Pennington, Robert E., and Nickerson. 3,047,614.
Pennington, Robert E., Yule, and Snyder. 3,047,612.
Perry, Robert H., Jr. 3,037,009.
Perry, Robert H., Jr. 3,059,028.
Peters, Theodore J., and Collins. 3,047,504.
Pfenning, Reuben F. 3,051,650.
Pfrehm, Raymond H. 3,021,703.
Popkin, Alexander H. 3,034,877.
Popkin, Alexander H. 3,047,372.
Powers, Kenneth W., and Robison. 3,035,029.
Rafferty, Martin A., and Leahey. 3,070,360.
Ramsden, Hugh E. 3,067,226.
Ray, Richard L. 3,033,833.
Read, Chester L., and Lucchesi. 3,043,759.
Richardson, James T. 3,017,256.
Robbins, William K., and Behymer. 3,039,957.
Robson, Harry E. 3,019,100.
Roming, Charles, Jr. 3,055,942.
Roming, Charles, Jr. 3,068,256.
Ruef, Lloyd M., and Lockett. 3,066,093.

Esso Research and Engineering Co.: *See*—Continued
Ryder, James W. 3,044,864.
Sanders, Hiram R., Jr., and Morway. 3,036,901.
Saunders, Rhoderick K., and Williams. 3,048,772.
Schar, Wayne C. 3,042,713.
Schatz, Ralph H., Gleason, and Slotterbeck. 3,063,857.
Schriesheim, Alan. 3,068,302.
Schriesheim, Alan, and Gilbert. 3,045,056.
Schutze, Henry G., Leibson, and Bown. 3,020,268.
Schweitzer, William H., and Crist. 3,059,664.
Seelbach, Charles W., and Cottle. 3,058,966.
Serniuk, George E. 3,064,042.
Serniuk, George E., and Kuntz. 3,033,832.
Shemaker, James E., and Nelson. 3,018,236.
Shirley, Marcus B., and Thomas. 3,044,856.
Shirley, Sidney D. 3,052,287.
Sirois, Lionel J., More, and Habib. 3,031,384.
Skarstrom, Charles W., and Heilman. 3,069,830.
Slotterbeck, Ober C., and Gleason. 3,055,761.
Slotterbeck, Ober C., and Winters. 3,050,489.
Spars, Byron G., and McCall. 3,022,245.
Squires, Walter, Jr., and Terrenzio. 3,055,824.
Stephens, Frank M., Jr., and Renken. 3,020,210.
Stogryn, Eugene L., and Argabright. 3,048,531.
Stogryn, Eugene L., and Strohmayer. 3,070,577.
Strohmayer, Herbert F., Minckler, Simko, and Stogryn. 3,066,123.
Tarmy, Barry L., and Long. 3,018,235.
Tegge, Bruce R., Baldwin, and Serniuk. 3,023,191.
Tegge, Bruce R., and Bryan. 3,033,836.
Thomas, Arthur M., Jr. 3,023,084.
Thorn, John P., Dimler, and Gallagher. 3,066,151.
Tirtiaux, Robert, and Tourret. 3,058,956.
Tornqvist, Erik, and Langer. 3,032,510.
Tornqvist, Erik, and Langer. 3,032,513.
Tornqvist, Erik, and Langer. 3,046,264.
Tornqvist, Erik, and Seelbach. 3,034,992.
Tyson, Charles W., De Feo, and Arey. 3,026,176.
Vanderbilt, Byron M. 3,022,208.
Vanderbilt, Byron M. 3,062,242.
Vanderbilt, Byron M., Marchman, and Gessler. 3,026,223.
Weikart, John, and Betts. 3,066,094.
Wiedemann, John S., and Schumacher. 3,031,856.
Wiese, Herbert K., and Lippincott. 3,022,359.
Williams, Rollie B. 3,034,040.
Williams, Rollie B. 3,039,047.
Wilson, Ernest V. 3,028,334.
Wilson, Ernest V., Ertelt, and Keeber. 3,036,969.
Wilson, Howard L., Banes, and Nelson. 3,046,247.
Winters, Merilyn A., Slotterbeck, Koenecke, and Van Nostrand. 3,058,837.
Winters, Merilyn C., and Slotterbeck. 3,035,017.
Wythe, Stephen L., and Hollyday. 3,037,850.
Wythe, Stephen L., and Hollyday. 3,069,245.
Ziarnik, George A. 3,036,027.
Ziarnik, George J. 3,050,479.
Esso Standard Societe Anonyme Francaise: *See*—
Freier, Benno, and Marter. 3,036,010.
Esson, Roger L., and G. H. McDonell, to American Can Co. Process for packing comestibles in a thin walled metal tube. 3,037,869, 6–5–62, Cl. 99—182.
Esswein, Edward J., Jr., and N. F. Barr, to Martin-Marietta Corp. Sanitary can coating compositions. 3,030,229, 4–17–62 Cl. 117—75.
Esta Medical Laboratories, Inc.: *See*—
Gorman, William G. 3,067,784.
Estelle, Weems E., to McNab, Inc. Thermistor mounting. 3,065,401 11–20–62. Cl. 324—30.
Estephanian, Estephan D., K. V. Packard, R. L. Clouthier, and E. J. Bontillette, to M.K.M. Knitting Mills, Inc. Method of knitting fabric with vari-colored pattern. 3,020,740, 2–13–62, Cl. 66—186.
Estephanie, Jose. Lathe attachment for elliptical and circular turning. 3,066,560, 12–4–62, Cl. 82—18.
Esterbrook Pen Co.: *See*—
Simon, Albert E., Jr., and Cavaliere. 3,040,708.
Simon, Albert E., Jr., and Steinberg. 3,041,693.
Summers, Frank P. Jr., and Mattson. 3,046,556.
Esterson, Gerald L. Method for measuring electrical conductivity of fluids. 3,054,946, 9–18–62, Cl. 324—30.
Estes, Cameron B.: *See*—
Wittel, Otto, and Estes. 3,024,715.
Estes, Cameron B., to Eastman Kodak Co. Motor control for automatic photographic cameras. 3,023,665, 3–6–62, Cl. 88—16.
Estes, Clarence L. Sectional mechanical toy. 3,017,718, 1–23–62. Cl. 46—123.
Estes, John H.: *See*—
Friedman, Louis D., Rambo, and Estes. 3,025,231.
Estes, Nelson N.: *See*—
Baker, Judd O., and Estes. 3,050,707.
Evans, George E., Powers, Estes, and Snavely. 3,054,-030.
Estes, Nelson N., to Union Carbide Corp. Electrical read-out integrator. 3,021,482, 2–13–62, Cl. 324—94.
Estes, Nelson N., and J. J. Moore. Time base generator. 3,054,031, 9–11–62, Cl. 317—231.
Estes, Nelson N., G. T. Kemp, and J. J. Moore, to Union Carbide Corp. Electrochemical detector. 3,056,908, 10–2–62, Cl. 317—230.
Estes, Reedus R.: *See*—
Brockway, Charles E., Christman, and Estes. 3,061,471.
Estes, Stanley E., to Hallett Mfg. Co. Coil shield. 3,048,704, 8–7–62, Cl. 307—10.
Estes, Thomas C. Tube light glare eliminator. 3,061,718, 10–30–62, Cl. 240—138.
Estey, Roger S.: *See*—
Biberman, Lucien M., and Estey. 3,034,405.
Estopare, Sixto. Bowling ball weight balancer. 3,029,521, 4–17–62, Cl. 33—174.
Estoppey, Royden F., to Daystrom, Inc. Frequency meter. 3,054,052, 5–8–62, Cl. 324—82.
Estrem, George C. Coin box. 3,051,308, 8–28–62, Cl. 206—.83.
Estrems, Eugeni, and M. Papo, to International Business Machines Corp. Means for transferring information between plural memory devices. 3,042,903, 7–3–62, Cl. 340—172.5.
Esveldt, Cornelis J.: *See*—
Gorter, Evert W., Wijn, and Esveldt. 3,030,306.
Esvelt, Hendrik: *See*—
Van Santen, Johannes G., and Esvelt. 3,015,770.
Eszlinger, Emil: *See*—
Huddleston, Richard H., Jr., Bravenec, and Eszlinger. 3,065,407.
Etablissements Economiques du Casino, Guichard-Perrachon & Cie: *See*—
Barriol, Loius M. Y. 3,070,240.
Etablissements G. Julin & Fils, Société à Responsabilité Limitée des: *See*—
Gueytron, Maurice J. 3,065,689.
Etchison, Gibson O., to West Point Mfg. Co. Process for controlling static properties of synthetic textile fibers. 3,063,128, 11–13–62, Cl. 28—75.
Etchison, Gibson O., to West Point Mfg. Co. Process for chemically modifying nylon with montmorillonite. 3,063,-784, 11–13–62, Cl. 8—115.5.
Etchison, John O., Jr., and E. M. Hutchins, to Western Electric Co. Inc. Method of cold forming metal. 3,050,849, 8–28–62, Cl. 29—534.
Eternit, Kapelle-op-den-bos, Societe Anonyme: *See*—
Gerin, Jacques. 3,066,961.
Eternit-Werke Ludwig Hatschek: *See*—
Reschenedер, Karl. 3,065,787.
Etes, Elmer G., to The Newsomatic Corp. Vending machine. 3,023,928, 3–6–62, Cl. 221—40.
Etheridge, Frederick G., to North American Aviation, Inc. Pressure pick-up for a jet engine fuel system. 3,042,344, 7–3–62, Cl. 244—76.
Etheridge, Oliver R., to A. E. Staley Mfg. Co. Hydraulic diluting circuit. 3,039,479, 6–19–62, Cl. 137—3.
Etheridge, Oliver R., J. A. Wagoner, J. W. McDonald, and D. A. Lippincott, to A. E. Staley Mfg. Co. Starch fractionation. 3,067,067, 12–4–62, Cl. 127—71.
Etherington, Ralph, to General Electric Co. Crystal controlled oscillator with temperature compensating means. 3,054,966, 9–18–62, Cl. 331—66.
Etherington, Robert W., Jr.: *See*—
Kerr, Ralph O., and Etherington. 3,038,942.
Etherington, Robert W., Jr., to Petro-Tex Chemical Corp. Preparation of aldehydes by catalytic oxidation. 3,029,288, 4–10–62, Cl. 260—604.
Etherington, Robert W., Jr., and C. N. Wolf, to Petro-Tex Chemical Corp. Preparation of aldehydes by catalytic oxidation. 3,031,508, 4–24–62, Cl. 260—604.
Etherington, Walter H. Well tool. 3,023,821, 3–6–62, Cl. 175—81.
Ethicon, Inc.: *See*—
Bloch, Alfred, and Messing. 3,019,171.
Gerard, Joseph C. 3,028,576.
Lodding, William F. 3,023,896.
Pepper, Rollin E., and Lieberman. 3,016,328.
Santoro, Anthony F., and Hwozdek. 3,047,352.
Stonehill, Albert A., and Zoller. 3,057,471.
Valentine, Orvill H., Jr., Lodding, Kinkead, and Moorhead. 3,023,899.
Ethier, Joseph A. Valve for effecting automatic double inking of the printing plate in a vertical press. 3,018,726, 1–30–62, Cl. 101—280.
Ethier, Robert E., to The Louis Allis Co. System for regulating output horsepower of a magnetic coupling drive. 3,035,-193, 5–15–62, Cl. 310—94.
Ethyl Corp.: *See*—
Antler, Morton. 3,036,972.
Antler, Morton. 3,058,912.
Antler, Morton. 3,063,943.
Ashby, Eugene C. 3,023,248.
Ashby, Eugene C., Foster, Mangham, and Pearson. 3,020,298.
Axtell, William R., Bingeman, and Giraitis. 3,067,227.
Brown, Herbert C. 3,035,904.
Brown, Jerome E., De Witt, and Shapiro. 3,041,155.
Brown, Jerome E., Dewitt, and Shapiro. 3,060,212.
Brown, Joseph A. 3,069,153.
Brown, Palmer A., Kottong, Kraemer, and Limper. 3,053,875.
Closson, Rex D., and Coffield. 3,029,266.
Coffield, Thomas H. 3,043,774.
Coffield, Thomas H. 3,057,926.
Coffield, Thomas H. 3,069,384.
Coffield, Thomas H., and Closson. 3,042,693.
Cook, Shirl E., and Shapiro. 3,021,350.
Cook, Shirl E., and Shapiro. 3,038,916.
Cook, Shirl E., and Shapiro. 3,038,917.
Cook, Shirl E., and Shapiro. 3,038,918.
Cook, Shirl E., and Shapiro. 3,038,919.
Cook, Shirl E., and Sistrunk. 3,049,558.
De Pree, David O., and De Witt. 3,051,748.

Ethyl Corp.: *See*—Continued
Dykstra, Fred J. 3,030,196.
Ecke, George G., and Kolka. 3,019,097.
Ecke, George G., and Kolka. 3,043,672.
Giraitis, Albert P. 3,030,400.
Giraitis, Albert P., and Podall. 3,028,220.
Goddard, Lloyd E. 3,065,275.
Gorsich, Richard D. 3,030,396.
Gorsich, Richard D. 3,030,397.
Gorsich, Richard D. 3,033,885.
Gorsich, Richard D. 3,050,537.
Gorsich, Richard D. 3,069,449.
Gould, Merle L. 3,050,540.
Gould, Merle L. 3,050,541.
Gould, Merle L. 3,051,739.
Gray, Basil P., and Montgomery. 3,058,943.
Haefner, Albert J., and Conrad. 3,019,175.
Hinkamp, James B. 3,035,906.
Hirschler, Daniel A., Jr. 3,055,830.
Honeycutt, Julian B., Jr. 3,055,943.
Honeycutt, Julian B., Jr. 3,055,944.
Honeycutt, Julian B., Jr. 3,055,945.
Honeycutt, Julian B., Jr. 3,059,036.
Hornbaker, Edwin D. 3,019,270.
Ihrman, Kryn G., and Cofield. 3,037,999.
Johnston, James D., Schroll, and Shapiro. 3,037,038.
Juenge, Eric C. 3,028,405.
Kerley, Robert V., and Felt. 3,038,792.
Klopfer, Oskar E. H. 3,031,260.
Klopfer, Oskar E. H. 3,050,562.
Kobetz, Paul, and Pinkerton. 3,028,318.
Kobetz, Paul, and Pinkerton. 3,028,319.
Kobetz, Paul, and Pinkerton. 3,028,320.
Kobetz, Paul, and Pinkerton. 3,028,322.
Kobetz, Paul, and Pinkerton. 3,028,323.
Kobetz, Paul, and Pinkerton. 3,068,261.
Kottong, Gerald W. 3,053,879.
Kozikowski, John. 3,031,668.
McKim, Paul A. 3,053,653.
McKim, Paul A. 3,053,654.
Morgan, William H., Herbst, and King. 3,046,791.
Norman, Vello, and Whaley. 3,018,194.
Norman, Vello, and Whaley. 3,061,464.
Norman, Vello, and Whaley. 3,061,465.
Nyholm, Ronald S. 3,037,037.
Orloff, Harold D., Knapp, and Worrel. 3,060,121.
Orloff, Harold D., and Markley. 3,038,791.
Orloff, Harold D., and Markley. 3,055,747.
Pearson, Tillmon H., and Presswood. 3,028,404.
Pearson, Tillmon H., and Presswood. 3,061,626.
Pearson, Tillmon H., and Sistrunk. 3,050,470.
Pinkerton, Richard C. 3,028,325.
Podall, Harold E. 3,046,290.
Podall, Harold E., and Shapiro. 3,053,628.
Redman, Horace E., and Sistrunk. 3,028,408.
Riemschneider, Randolph. 3,064,020.
Roberts, George S. 3,023,934.
Robinson, Gene C. 3,052,702.
Robinson, Gene C. 3,057,894.
Robinson, Gene C. 3,057,897.
Rue, Sigurd O. 3,052,529.
Schroll, Gene E. 3,054,740.
Schroll, Gene E. 3,054,815.
Shapiro, Hymin, De Witt, and Brown. 3,030,398.
Sims, Leslie L. 3,060,125.
Thomas, Henry A. 3,068,515.
Wallis, John F. 3,066,692.
Wilkinson, Geoffrey. 3,064,021.
Wilkinson, Geoffrey. 3,064,024.
Wilkinson, Geoffrey, and Burton. 3,064,023.
Wood, Bobby G. 3,045,897.
Ethylene-Plastique, Societe Anonyme: *See*—Fumeaux, Angelin. 3,060,637.
Etienne, Yves P. M.: *See*—Thiebaut, Roger P. J. G., and Etienne. 3,043,799.
Etling, Harold A., to Weather-Seal, Inc. Metal storm window and sash therefor. 3,038,570, 6–12–62, Cl. 189—76.
Etlinger, Daniel H., to The Wilkata Folding Box Co. Folding box or carton to enclose a small article. 3,047,203, 7–31–62, Cl. 229—39.
Etlinger, Henry L.: *See*—Navatta, Cono S., Smith, and Etlinger. 3,018,400.
Ettco Tool & Machine Co., Inc.: *See*—Zagar, Asher I. 3,030,818.
Zager, Asher I. 3,051,013.
Zagar, Asher I. 3,064,497.
Ettema, Eelke H.: *See*—Van den Blink, Willem P., and Ettema. 3,056,016.
Van den Blink, Willem P., Ter Haar, and Ettema. 3,021,418.
Ettema, Everhardus C., to North American Philips Co., Inc. Device for fastening a winding to a rotor. 3,070,717, 12–25–62, Cl. 310—270.
Etten, Nicholas L.: *See*—Kimball, George R., and Etten. 3,037,267.
Etter, Marcel: *See*—Moser, Richard, and Etter. 3,056,470.
Etter, Robert W., to Radio Corp. of America. Heater wire coating process. 3,029,360, 4–10–62, Cl. 313—340.
Etter, Thomas L., to TRG, Inc. Fluid-pressure data storage device. 3,057,375, 10–9–62, Cl. 137—552.5.
Etter, Thomas L., to TRG, Inc. Fluid Pressure digital computer. 3,057,551, 10–9–62, Cl. 235—61.
Etterman, Edwin E.: *See*—Smith, Jack C., and Etterman. 3,046,081.
Smith, Jack C., Etterman, and Romine. 3,063,564.
Etterman, Edwin E., to Detrex Chemical Industries, Inc. Dry cleaning liquid seal. 3,026,113, 3–20–62, Cl. 277—4.
Ettinger, John H., to The Bendix Corp. Feeder mechanism. 3,064,826, 11–20–62, Cl. 214—1.
Ettman, Henry L. Microtome knife sharpener. 3,041,790, 7–3–62, Cl. 51—102.
Etzel, Gastao, to E. I. du Pont de Nemours and Co. Composition, process for making and process for treating cellulose fabric. 3,067,062, 12–4–62, Cl. 117—143.
Etzel, Howard W., and D. A. Patterson. Method for producing radiation sensitive alkali halide crystals. 3,021,286, 2–13–62, Cl. 252—408.
Etzkorn, Elmer F., to Skil Corp. Predetermined torque release hand tool. 3,020,789, 2–13–62, Cl. 81—52.4.
Eubanks, Floyd G., 10% to Robert M. McManigal. Timed electrical control apparatus. 3,020,364, 2–6–62, Cl. 200—46.
Eubanks, Joseph H.: *See*—Valentine, George E., and Eubanks. 3,054,443.
Eudier, Michel, to La Metallurgie Francaise des Poudres La. Sheet-metal articles manufacturing. 3,037,242, 6–5–62, Cl. 18—9.
Eue, Ellsworth W., to Green Giant Co. Cream style corn process. 3,065,082, 11–20–62, Cl. 99—186.
Eue, Ludwig: *See*—Kuhle, Engelbert, Schafer, Eue, and Wegler. 3,063,823.
Schlör, Hanshelmut, and Eue. 3,070,433.
Euga, Arthur B. Brake system for vehicles incorporating separate service and auxiliary circuits. 3,066,768, 12–4–62, Cl. 188—106.
Eugster, Conrad H., to Geigy Chemical Corp. Thiophane derivatives. 3,051,728, 8–28–62, Cl. 260—332.3.
Eugster, Conrad H., R. Denss, F. Hafliger, and E. Girod, to Geigy Chemical Corp. Quaternary ammonium compounds of the dihydrofurane series. 3,024,252, 3–6–62, Cl. 260—347.7.
Eugster, Conrad H., R. Denss, F. Hafliger, and E. Girod, to Geigy Chemical Corp. Products related to muscarine and the preparation of such products. 3,041,355, 6–26–62, Cl. 260—347.7.
Euker, Harold W.: *See*—George, Henry P., and Euker. 3,042,555.
Euker, Harold W., and G. L. Fogal, to General Electric Co. Trajectory sensitive time actuating systems. 3,067,684, 12–11–62, Cl. 102—70.2.
Eule, Martin. Means for supervising the heat development and heat transfer in boilers, furnaces and heat consumers. 3,016,738, 1–16–62, Cl. 73—112.
Euler, George M., to General Electric Co. Combination manual and automatic time and temperature control systems. 3,031,558, 4–24–62, Cl. 219—20.
Euler, George M., to General Electric Co. Combination manual and automatic time and temperature control system. 3,062,943, 11–6–62, Cl. 219—20.
Euler, Joachim. Cadmium electrodes for galvanic cells. 3,048,644, 8–7–62, Cl. 136—83.
Eulitz, Johannes: *See*—Wolf, Erich, and Eulitz. 3,054,577.
Eure, Benny S. Painter's door shield. 3,029,782, 4–17–62, Cl. 118—505.
Eureka Products Corp.: *See*—Pollack, Solomon. 3,038,039.
Eureka Specialty Printing Co.: *See*—Green, Francis E., Jr. 3,016,135.
Hein, Kurt and W. C. 3,026,236.
Schneider, Kurt R. 3,046,010.
Europea, S.p.A.: *See*—Mulder, Peter C. 3,031,070.
Euster, Eugene H. Lead refining process. 3,041,162, 6–26–62, Cl. 75—78.
Eustis, Leo P. Aerial toy. 3,039,722, 6–19–62, Cl. 244—153.
Eutectic Welding Alloys Corp.: *See*—Wasserman, Rene D., and Quaas. 3,023,130.
Wasserman, Rene D., and Quaas. 3,031,346.
Euternech, Ernest L., to United States of America, Army. Current transformer system. 3,031,600, 4–24–62, Cl. 317—14.
Euth, John E., to Uarco, Inc. Slitter and pin-wheel feed for stationery strips. 3,039,345, 6–19–62, Cl. 83—423.
Euwe, Gerrit E., and C. J. A. Cleremans, to Lever Brothers Co. Bearing. 3,018,146, 1–23–62, Cl. 308—238.
Evancha, Charles. Balancer-bouncer exercising device. 3,062,542, 11–6–62, Cl. 272—57.
Evanclan: *See*—Evans, Stewart H. 3,032,423.
Evangelista, Henry. Ventilated footwear. 3,044,188, 7–17–62, Cl. 36—3.
Evans, Adeline D.: *See*—Burweil, Edith B., and Evans. 3,025,856.
Evans, Andrew J., to E. A. Adams & Son, Inc. End connector for molded beads. 3,054,157, 9–18–62, Cl. 24—116.
Evans, Arthur D., to Texas Instrument Inc. Voltage tuned resistance-capacitance filter, consisting of integrated semiconductor elements usable in phase shift oscillator. 3,070,762, 12–25–62, Cl. 333—70.
Evans, Arthur D., and R. R. Webster, to Texas Instruments Inc. Temperature stabilized biasing circuit for transistor having additional integral temperature sensitive diode. 3,050,638, 8–21–62, Cl. 307—88.5.

Evans, Arthur W., and J. D. Groves, to British Titan Products Co. Ltd. Apparatus for the production of titanium tetrachloride. 3,017,254, 1–16–62, Cl. 23—284.
Evans, Arthur W.: *See*—
Hughes, William, and Evans. 3,043,656.
Hughes, William, and Evans. 3,043,657.
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Hughes, William, Evans, and Harris. 3,043,659.
Evans, Clifford J., to Jetco, Inc. Mounting means for digger teeth. 3,041,752, 7–3–62, Cl. 37—142.
Evans, Clyde O.: *See*—
Wendelburg, Frank W., Evans, and Durst. 3,039,036.
Evans, Colin W.: *See*—
Sear, Derek W., and Evans. 3,024,813.
Evans, Cyril G., to Deering Milliken Research Corp. Apparatus for elasticizing thermoplastic monofilament yarn. 3,025,584, 3–20–62, Cl. 28—1.
Evans, Cyril G., to Deering Milliken Research Corp. Improved methods and apparatus for preparing elasticized thermoplastic yarns. 3,028,653, 4–10–62, Cl. 28—1.
Evans, Cyril G., to Deering Milliken Research Corp. Apparatus for processing yarn. 3,028,654, 4–10–62, Cl. 28—1.
Evans, David C., V. P. Magnuson, J. C. Monroe, and L. T. Prothers, to The Bendix Corp. Recording system. 3,025,-124, 3–13–62, Cl. 346—74.
Evans, David, and S. Ochi, to The Bendix Corp. Tabulating card system. 3,025,499, 3–13–62, Cl. 340—172.5.
Evans, David G.: *See*—
Stewart, Warner L., and Evans. 3,070,349.
Evans, Dewey: *See*—
Umbricht, Emil, and Evans. 3,030,896.
Umbricht, Emil, and Evans. 3,030,971.
Umbricht, Emil, and Evans. 3,059,861.
Evans, Elmer E. Lawn edger. 3,017,733, 1–23–62, Cl. 56—25.4.
Evans, Ernest E. Carton forming device and method. 3,017,809, 1–23–62, Cl. 93—36.
Evans, Evan C., III, and F. A. French, to United States of America, Navy. Aerosol sampler. 3,035,445, 5–22–62, Cl. 73—421.5.
Evans, Francis C.: *See*—
Swift, James L., and Evans. 3,042,079.
Evans, Fraser M., to C.A.V. Ltd. Liquid fuel pumps for internal combustion engines. 3,058,425, 10–16–62, Cl. 103—2.
Evans, Frederick P., to United Aircraft Corp. Two-stage nozzle area control. 3,015,935, 1–9–62, Cl. 60—35.6.
Evans, George A., J. Machielse, E. B. Morgan, and G. L. Weaver, to American Seating Company. Foldable seating structure. 3,025,106, 3–13–62, Cl. 297—248.
Evans, George E., R. A. Powers, N. N. Estes, and E. S. Snavely, Jr., to Union Carbide Corp. Electrodes for electrochemical devices. 3,054,030, 9–11–62, Cl. 317—230.
Evans, George H., ½ to R. K. Stevens. Rolling marble device. 3,049,831, 8–21–62, Cl. 46—43.
Evans, George J., and F. A. Mickle, to General Motors Corp. Conduit. 3,053,564, 9–11–62, Cl. 296—44.
Evans, Godfrey A., to Heenan & Froude Ltd. Fluid pressure operated force measuring apparatus. 3,062,046, 11–6–62, Cl. 73—133.
Evans, Godfrey A., and W. N. Bathurst, to Heenan & Froude Ltd. Hydraulic dynamometers. 3,033,321, 5–8–62, Cl. 188—90.
Evans, Harry G. V.: *See*—
Grieger, Philip F., and Evans. 3,037,066.
Evans, Harry W.: *See*—
Disler, Lloyd W., and Evans. 3,030,077.
Evans, Helen D., F. W. H. Mueller, and S. Levinos, to General Aniline & Film Corp. Photopolymerization of vinyl monomers with metal oxides as catalysts. 3,041,172, 6–26–62, Cl. 96—115.
Evans, Henry G.: *See*—
Wethingwell, Wallace B., and Evans. 3,067,072.
Evans, Herbert, to Flex Fasteners Ltd. Methods of making sliding clasp fasteners. 3,050,842, 8–28–62, Cl. 29—410.
Evans, Howard H.: *See*—
McDonald, James A., and Evans. 3,049,017.
Evans, J., & Son (Portsmouth) Ltd.: *See* —
Parker, Russell R. R. 3,065,469.
Evans, James C., I. G. Morgan, L. W. Nickols, A. J. Garratt, F. C. P. Mason, and W. F. Atkins, to National Research Development Corp. Measurement of linear dimensions. 3,026,714, 3–27–62, Cl. 73—37.7.
Evans, Jesse L.: *See*—
Carnahan, Leonard L., Fry, Pearce, and Evans. 3,049,114.
Carnahan, Leonard L., Fry, Pearce, and Evans. 3,049,115.
Evans, Jim. Method and apparatus used in producing staves. 3,062,251, 11–6–62, Cl. 147—19.
Evans, John C., to Tropel, Inc. Mechanical slide. 3,054,645, 9–18–62, Cl. 308—3.
Evans, John F. Coin holder. 3,034,640, 5–15–62, Cl. 206—45.34.
Evans, John F. Can holder. 3,036,749, 5–29–62, Cl. 224—42.32.
Evans, John G., and G. H. Crawshaw, to The Bradford Dyers' Association Ltd. Metal salts of substituted phosphoric acid as curing agents for polysiloxanes. 3,047,535, 7–31–62, Cl. 260—46.5.
Evans, John L., J. D. Pickens, and J. H. Williamson, to E. I. du Pont de Nemours and Co. Low viscosity methyl methacrylate coating composition containing high viscosity methyl-methacrylate polymer. 3,060,148, 10–23–62, Cl. 260—45.5.
Evans, John R.: *See*—
Wiles, William F., and Evans. 3,042,342.
Evans, Julian F., to Pan American Petroleum Corp. Subsurface seismic surveying. 3,061,037, 10–30–62, Cl. 181—.5.
Evans, Lee F.: *See*—
Econom, John J., Evans, and Reade. 3,028,943.
Evans, Leonard D., and A. Cannon. Accurate location systems for repetitive positioning in image reproduction processes. 3,023,509, 3–6–62, Cl. 33—184.5.
Evans, Lou A. Urinal. 3,030,636, 4–24–62, Cl. 4—110.
Evans, Nolan E., and E. J. Hlinsky, to Goodman Mfg. Co. Cuttings confining means for adjustable boring type mining machines. 3,025,042, 3–13–62, Cl. 262—9.
Evans, Norman R., ½ to J. U. Walker, ½ to B. F. Dellett, ½ to M. M. Kraus, and ½ to N. E. Yanover. Device for chasing pests. 3,058,103, 10–9–62, Cl. 340—384.
Evans, Oliver D., and F. B. Hartman, to International Business Machines Corp. Overlap mode control. 3,027,081, 3–27–62, Cl. 235—157.
Evans, Paul B. F.: *See*—
Bishop, John, and Evans. 3,030,505.
Evans, Paul I., and M. R. Ransom, to United States of America, Army. Weapon control system. 3,049,056, 8–14–62, Cl. 89—1.
Evans, Percy, to British Hoist and Crane Co. Ltd. Cranes and the like. 3,045,836, 7–24–62, Cl. 212—35.
Evans, Peter, and D. G. Brooke, to Imperial Chemical Industries Ltd. Urea compositions. 3,042,718, 7–3–62, Cl. 260—555.
Evans Products Co.: *See*—
Dunlap, Henry L. 3,029,746.
Dunlap, Henry L. 3,070,042.
Erickson, Paul N. 3,033,130.
Faurie, Georges. 3,063,735.
Moorhead, John P. 3,055,506.
Nanba, Sulo M. 3,017,842.
Potchen, Joseph A. 3,045,293.
Rolfe, Herbert E., Jr. 3,023,711.
Tobin, Kenneth J. 3,070,044.
Vanden Berg, Lester J. 3,057,007.
Evans, Quentin J.: *See*—
Cunningham, Frederick W., Miner, and Evans. 3,048,769.
Evans, Ralph A., L. J. Stephanoff, and R. G. McCollum, to Link-Belt Co. Belt training idler. 3,066,547, 12–4–62, Cl. 74—241.
Evans, Ralph S. Adjustable boat trailer. 3,029,960, 4–17–62, Cl. 214—84.
Evans, Richard C.: *See*—
Winckler, Gunnar A. F., and Evans. 3,048,643.
Evans, Richard E.: *See*—
Haskell, Philip R., Evans, Connor, and Ketchpel. 3,024,-530.
Haskell, Philip R., Evans, Ketchpel, and Connor. 3,024,-531.
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Haskell, Philip R., Evans, Ketchpel, and Connor. 3,024,-666.
Haskell, Philip R., Evans, Ketchpel, and Connor. 3,024,-749.
Evans, Richard H., to Babcock & Wilcox Ltd. Vapor generators. 3,060,904, 10–30–62, Cl. 122—235.
Evans, Richard H., to Babcock & Wilcox Ltd. Fluid heater cleaners. 3,068,507, 12–18–62, Cl. 15—317.
Evans, Richard H., and L. P. Purple, to Babcock & Wilcox, Ltd. Tubular wall construction. 3,034,485, 5–15–62, Cl. 122—510.
Evans, Robert D., to American Cyanamid Co. Acrylonitrile copolymers. 3,035,031, 5–15–62, Cl. 260—85.5.
Evans, Robert D., and H. W. Breathitt, Jr., to The American Agricultural Chemical Co. Hydraulic classification of solids. 3,032,194, 5–1–62, Cl. 209—158.
Evans, Robert D., and A. J. Yu, to American Viscose Corp. Octamethyleneamide-2,2'-p-phenylene-bis-ethylamide copolymer. 3,046,256, 7–24–62, Cl. 260—78.
Evans, Robert D., and A. J. Yu, to American Viscose Corp. Sebacamide-p-xylyleneadiamide copolymer. 3,046,257, 7–24–62, Cl. 260—78.
Evans, Robert D., and A. J. Yu, to American Viscose Corp. Hexamethyleneamide, p-xylyleneamide copolymers. 3,053,-813, 9–11–62, Cl. 260—78.
Evans, Robert G., Co.: *See*—
Ward, Orville C. J. 3,040,729.
Evans, Robert R.: *See*—
Lawrence, Thomas E., Kelner, Gardiner, and Evans. 3,054,958.
Evans, Robert T.: *See*—
Douglass, Charles C., and Evans. 3,058,526.
Uberbacher, Edward C., and Evans. 3,052,863.
Evans, Robert T., to Automatic Electric Laboratories, Inc. Trunk routing. 3,033,934, 5–8–62, Cl. 179—18.
Evans, Robert T., to Halliburton Co. Wire line setting and releasing devices. 3,054,454, 9–18–62, Cl. 166—178.
Evans, Robley W.: *See*—
Morris, John M., and Evans. 3,058,235.
Evans, Robley W., and J. M. Morris, to Chain Belt Co. Method and apparatus for moving pulverulent materials. 3,058,-576, 10–16–62, Cl. 198—220.
Evans, Ronald M., J. Elks, B. A. Hems, G. W. Arthur, J. F. Oughton, G. L. Gregory, T. Walker, and J. S. Hunt, to Glaxo Laboratories Ltd. 16-methyl steroids and process of preparing the same. 3,040,034, 6–19–62, Cl. 260—339.55.

Evans, Russell W.: *See*—
Legg, Glen J., 3,036,545.
Evans, Russell W. Method for forming flavoring essences from plant products. 3,037,866, 6–5–62, Cl. 99—140.
Evans, Sidley O., to The Babcock & Wilcox Co. Ribbed extrusion billet. 3,015,154, 1–2–62, Cl. 29—183.
Evans, Sidley O., to The Babcock & Wilcox Co. Method and apparatus for metal working. 3,015,387, 1–2–62, Cl. 207—10.
Evans, Stewart H., to Evanclan. Heat exchange process and apparatus. 3,032,423, 5–1–62, Cl. 99—215.
Evans, Thomas A.: *See*—
Buchholz, Arnold R., and Evans. 3,023,755.
Evans, Thomas D.: *See*—
Mozen, Milton M., and Evans. 3,058,884.
Evans, Walter E. Soap tip-out tray. 3,019,549, 2–6–62, Cl. 45—28.
Evans, Walter R., and A. K. Dorsman, to North American Aviation, Inc. Excess error signal storage means for servo systems. 3,070,712, 12–25–62, Cl. 307—88.5.
Evans, Wendell L., to The Cincinnati Milling Machine Co. Hydraulic system for pattern controlled machine. 3,026,-680, 3–27–62, Cl. 60—97.
Evans, William E., and E. D. Jones, to A. B. Dick Co. Translation system. 3,017,625, 1–16–62, Cl. 340—324.
Evans, William E., Jr.: *See*—
Kreisler, Robert L., Evans, and Skaar. 3,068,459.
Evans, William G.: *See*—
Lyman, Richard C., Van Nice, and Evans. 3,040,178.
Van Nice, Robert I., and Evans. 3,048,331.
Evans, William R., to AMP Inc. Ladder strip applicator. 3,070,144, 12–25–62, Cl. 153—1.
Evans, William S., Jr.: *See*—
Whitley, William J., Jr., and Evans. 3,032,239.
Evans, William T., to Sun Oil Co. Seismic elevation and weathering time correction computer. 3,027,085, 3–27–62, Cl. 235—193.
Evansen, Arthur W., to The Magnavox Co. Card processing apparatus. 3,049,346, 8–14–62, Cl. 271—4.
Evanus, Walter: *See*—
Skillman, William A., Evanus, and Mooney. 3,018,478.
Eveland, John W. Parlor stall. 3,024,766, 3–13–62, Cl. 119—96.
Even, Georges. Armoured tank. 3,024,704, 3–13–62, Cl. 89—36.
Even, Georges. Armored tank providing pressurized circulation of ventilating air. 3,068,757, 12–18–62, Cl. 89—36.
Even, Georges F. M. Sprocket wheel. 3,068,711, 12–18–62, Cl. 74—242.
Even-Tov, Ori, to Sperry Rand Corp. Brake and clutch driving and holding circuit. 3,019,870, 2–6–62, Cl. 192—18.
Everard, Joseph J., and R. D. Rulseh, to Paragon Electric Co. Time switches. 3,052,765, 9–4–62, Cl. 200—38.
Everard, Joseph J., and R. A. Heinzen, to Consolidated Electronics Industries Corp. Synchronous motors. 3,059,131, 10–16–62, Cl. 310—164.
Everbrite Electric Signs, Inc.: *See*—
Muse, Richard H. 3,023,524.
Everest & Jennings, Inc.: *See*—
Jennings, Harry C. 3,064,744.
Everest, George W. Incandiescent lamp protector for street lights. 3,027,450, 3–27–62, Cl. 240—11.2.
Everett, Charles J., to Holmes Electric Protective Co. Alarm switch. 3,054,869, 9–18–62, Cl. 200—52.
Everett, Charles V., and P. Sammarco, to International Harvester Co. Coupler mechanism. 3,061,334, 10–30–62, Cl. 280—513.
Everett, Ernest W. J., and R. G. Gilbert, to Speed Developments Co. Ltd., Marine Works. Temperature alarm systems. 3,044,049, 7–10–62, Cl. 340—227.
Everett, Hazen F., to The Foregger Co., Inc. Extracorporeal blood circulation system having a non-electric drive. 3,037,504, 6–5–62, Cl. 128—214.
Everett, Hazen F., to The Foregger Co., Inc. Pump. 3,039,-399, 6–19–62, Cl. 103—150.
Everett, Hazen F. Pump and control therefor. 3,043,227, 7–10–62, Cl. 103—38.
Everett, Hazen F., to The Foregger Co., Inc. Extracorporeal blood circulation system and a safety feature therefor. 3,049,122, 8–14–62. Cl. 128—214.
Everett, James C. Safety cap or closure. 3,067,899, 12–11–62, Cl. 215—41.
Everett, John W., ¼ to E. A. Poe, Jr., ¼ to G. C. Murray, and ¼ to K. J. Eisenhardt. Pressure can having a flexible material holding bag therein. 3,040,933, 6–26–62, Cl. 222—95.
Everett, John W. Bag lined pressured container. 3,070,265, 12–25–62, Cl. 222—386.5.
Everett, John W., and G. C. Murray. Container seams. 3,015,410, 1–2–62, Cl. 220—63.
Everett Richard K. Hog or sheep shade. 3,023,732, 3–6–62, Cl. 119—16.
Everett, Robert H. Bait box for live crickets. 3,015,905, 1–9–62, Cl. 43—55.
Everett, Robert R., to Research Corp. Data processing system. 3,037,192, 5–29–62, Cl. 340—172.5.
Everett, Wilhelm S. Surge dissipating apparatus. 3,019,818, 2–6–62, Cl. 138—30.
Everhart, James G.: *See*—
Steinmayer, Alwin G., and Everhart. 3,032,863.
Evering, Bernard L., and A. K. Roebuck, to Standard Oil Co. Preparation of an ALCl₃-ether complex catalyst. 3,032,-508, 5–1–62, Cl. 252—429.
Evering, Bernard L., and A. K. Roebuck, to Standard Oil Co. Separation of aluminum chloride complexes using carbon disulphide. 3,067,228, 12–4–62, Cl. 260—448.
Everington, William T.: *See*—
Gluckstein, Leonard, and Everington. 3,040,647.
Everitt, Michael J.: *See*—
Hall, Harvey S., and Everitt. 3,038,042.
Everpure, Inc.: *See*—
Oliver, Chauncey B. 3,049,142.
Oliver, Chauncey B. 3,055,503.
Ever Ready Co. (Great Britain) Ltd., The: *See*—
Worboys. Arthur F. 3,020,396.
Ever-Ready Razor Products Ltd.: *See*—
Duncan, Ian G. 3,060,572.
Everroad, Herbert L., to Everroad Supply Co. Filter cleaning device. 3,021,872, 2–20–62, Cl. 241—340.
Everroad Supply Co.: *See*—
Everroad, Herbert L. 3,021,972.
Evers & Co. Aktiebolag: *See*—
Högedal, Sven A. 3,021,555.
Evers, Arthur. Web-feeding machine with web-stop feature. 3,018,027, 1–23–62, Cl. 226—113.
Evers, Dundred D.: *See*—
Selby, Michael C., and Evers. 3,060,338.
Evers, Dundred D., to Philco Corp. Cryogenic refrigerating means. 3,018,643, 1–30–62, Cl. 62—467.
Evers, Ernest C.: *See*—
Freitag, Walter O., and Evers. 3,032,575.
Evers, Heinz. Bottle. 3,029,963, 4–17–62, Cl. 215—1.
Evers, William L., to A. O. Smith Corp. Animal feeding apparatus. 3,033,164, 5–8–62, Cl. 119—54.
Evers, William L., to Celanese Corp. of America. Block copolymer of a polyaminotriazole and an aromatic polyamide, and method of preparing same. 3,021,299, 2–13–62, Cl. 260—42.
Eversharp, Inc.: *See*—
Kuhnl, Leopold K. 3,037,664.
Kuhnl, Leopold K. 3,059,761.
Evershed & Vignoles Ltd.: *See*—
Redding, Robert J. 3,056,082.
Redding, Robert J., and Warder. 3,058,066.
Eversman Mfg. Co.: *See*—
Shumaker, Lawrence E. 3,032,902.
Eversole, John E., to Merit Products, Inc. Oscillating abrasive drum. 3,032,931, 5–8–62, Cl. 51—34.
Eversole, Ralph M. Desoldering tip. 3,050,612, 8–21–62, Cl. 219—26.
Eversole, William G., to Union Carbide Corp. Synthesis of diamond. 3,030,187, 4–17–62, Cl. 23—209.4.
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Everson, Hiloward E., and F. P. Benda, to Diamond Alkali Co. Chemical method. 3,015,589, 1–2–62, Cl. 134—42.
Everts & Van Der Weyden N.V.: *See*—
Deenik, Johan F., and Eisses. 3,067,947.
Evertz, Paul: *See*—
Otten, Alfred, Evertz, and Rohnke. 3,052,080.
Every, Maurice A.: *See*—
Rabenda, Edward J., and Every. 33,040,300.
Everyday Poultry Supply Co.: *See*—
Mitchell, George F. 3,053,227.
Eves, John D., and K. A. Terpening, to The Brewer-Titchener Corp. Coiler drum attachment for folding chairs. 3,024,-995, 3–6–62, Cl. 297—162.
Eves, John D., and R. M. Engelbrecht, to The Brewer-Titchener Corp. Pivotal joint connection. 3,041,092, 6–26–62, Cl. 287—14.
Evjen, John M.: *See*—
Shelton L., Wilson, and Evjen. 3,039,284.
Evjen, John M., to General Electric Co. Adjustable pressure-responsive switch. 3,035,189, 5–15–62, Cl. 307—118.
Evleth, Robert V.: *See*—
Kimpel, Robert F., and Evleth. 3,057,148.
Ewald, Heinz. Spectograph. 3,061,720, 10–30–62, Cl. 250—41.9.
Ewald, Waldemar, to Jos. Schneider & Co., Optische Werke. Depth-of-focus indicator for photographic instruments. 3,021,774, 2–20–62, Cl. 95—45.
Ewald, Waldemar, and K. Tesch, to Jos. Schneider & Co., Optische Werke. Distance preselector for photographic or cinematographic objectives. 3,054,338, 9–18–62, Cl. 95—45.
Ewan, Evan B., to Sun Oil Co. Motor fuels. 3,030,195, 4–17–62, Cl. 44—56.
Ewanus, Walter: *See*—
Smith, Harry B., Mooney, and Ewanus. 3,023,409.
Eward, Lee E. Concrete form. 3,020,618, 2–13–62, Cl. 25—154.
Ewen, Edward F.: *See*—
Nielsen, Carl A., Ewen, and Sherrick. 3,015,536.
Ewen, Ian E., to The United Wire Works Ltd. Apparatus for providing gas-free liquid metal to a casting mould for the continuous casting of metal. 3,017,676, 1–23–62, Cl. 22—57.2.
Ewers, Frank J., Jr.: *See*—
Sapit, Donald T., and Ewers. 3,017,879.
Ewers, Gerald M.: *See*—
Swaneck, Anthony J., Jr., and Ewers. 3,038,218.

Ewert, Emil A. Tube container dispensing device. 3,043,485, 7–10–62, Cl. 222—515.

Ewert, Harold W. Snow removing attachment for power mowers. 3,035,359. 5–22–62, Cl. 37—43.

Ewin, James C., to Bell Telephone Laboratories Inc. Remote telephone line concentrator. 3,022,382, 2–20–62, Cl. 179—18.

Ewing, Adam G.: *See—*
Coffin, John M., and Ewing. **3,039,052.**

Ewing, Bernard E. Lawn mower attachment for distributing liquid. 3,021,642, 2–20–62, Cl. 47—1.5.

Ewing, Bruce W., E. E. Mallory, and J. P. Sapp, to National Rubber Machinery Co. Stitcher assembly in a tire building machine. 3,051,220, 8–28–62, Cl. 156—398.

Ewing, Charles W.: *See—*
Chase, Frederic L., and Ewing. 3,022,205.

Ewing Development Co.: *See—*
Ewing, Walkley B. 3,015,156.

Ewing, Edgar G., to Northrop Corp. Impact release device. 3,015,513, 1–2–62, Cl. 294—83.

Ewing, Frederick J.: *See—*
Bland, Reginald B., and Ewing. 3,067,594.
Zwicky Fritz, and Ewing. 3,048,007.

Ewing, Lynn H.: *See—*
Nelson, Permil N. 3,035,570.
Nelson, Permil N. 3,056,377.
Nelson, Permil N. 3,062,501.

Ewing, Nelson, and F. M. Hargraves, to Towle Mfg. Co. Device for ornamentating engraving on silverware. 3,059,349, 10–23–62, Cl. 35—49.

Ewing, Robert W., Jr. Monorail transportation system. 3,064,585. 11–20–62, Cl. 104—93.

Ewing, Stanley W. Relay. 3,036,177, 5–22–62, Cl. 200—110.

Ewing, Thomas R. Window hinge structure. 3,052,931, 9–11–62, Cl. 20—42.

Ewing, Walkley B., to Ewing Development Co. Method of making a shade screen. 3,015,156, 1–2–62, Cl. 29—429.

Ewing, William H.: *See—*
Miller, Ward B., and Ewing. 3,068,732.

Excell, Arthur W.: *See—*
Edels, Siegfried, and Excell. 3,026,003.

Ex-Cell-O Corp.: *See—*
Brady, Samuel G., and Dralle. 3,024,577.
Carpenter, David J. 3,022,379.
De Witt, James T. 3,061,935.
Dralle, Wilhelm. 3,038,280.
Flynn, Joseph F. 3,056,138.
Gates, Hesslar H. 3,063,156.
Johnson, Forrest A., and Miller. 3,056,962.
Ljunggren, Thor H. 3,050,247.
Mitchell, Darrell L. 3,061,822.
Monroe, Charles Z., and Egleston. 3,060,443.
Monroe, Charles Z., Egleston, and Thibo. 3,031,811.
Taft, Hugh M. 3,063,039.

Exemplar, Inc.: *See—*
Beams, Jesse W. **3,066,849.**

Exner, Frank M.: *See—*
Carlson, William L., Jr., and Exner. 3,045,599.

Exner, Hellmuth A. A. Fountain pen with retractable writing element. 3,039,436, 6–19–62, Cl. 120—42.03.

Expanded Rubber Co. Ltd.: *See—*
Cooper, Alfred. 3,039,991.

Expeller Press and Chemical Corp.: *See—*
Blood, Lewis H. 3,045,586.

Express Dairies (Northern) Ltd.: *See—*
Shires, James W. N. 3,022,904.

Eyb, Wolfgang, to Dr.-Ing. h.c.F. Porsche, K.G. Individual wheel suspension. 3,026,124, 3–20–62, Cl. 280—96.2.

Eyberger, Harry, to Magnetics, Inc. Pressure forming apparatus. 3,063,098, 11–13–62, Cl. 18—42.

Eye-Beam Displays, Inc.: *See—*
Stein, Elmer L. 3,023,929.

Eyler, George, A. W. Winborne, and R. S. Hestand, to Cabot Corp. Support bar and wire rope assembly for polished rods. 3,052,003, 9–4–62, Cl. 24—123.

Eyles, Thomas H.: *See—*
Foster, Samuel, Jr., and Eyles. 3,040,913.

Eynon, George T., to National Research Development Corp. Control means for fluid pressure systems. 3,056,416, 10–2–62, Cl. 137—82.

Eynon, James U., to Leeds and Northrup Co. Measuring and integrating system. 3,051,898, 8–28–62, Cl. 324—100.

Eyolfson, Paul: *See—*
Larsen, Paul V., Eyolfson, Hill, and Dils. 3,026,947.

Eyolfson, Paul, to Esco Corp. Scraper blade. 3,021,626, 2–20–62, Cl. 37—141.

Eyraud, Charles, M. Prettre, Y. Trambouze, J. Lenoir, G. Thomas, and P. Plurien, to Commissariat a L'Energie Atomique. Porous membranes of very fine porosity, and processes for production thereof. 3,022,187, 2–20–62, Cl. 117—16.

Eyraud, Ivan P.: *See—*
Massot, Roger, and Eyraud. 3,015,205.

Eyssen, Hendrik: *See—*
Van Dijck, Paul, and Eyssen. 3,017,272.

Eytinge, Bruce D., to The Frito Co. Apparatus for producing potato chips and the like. 3,026,885, 3–27–62, Cl. 134—157.

Ezaki, Reona: *See—*
Iwama, Kazuo, and Ezaki. 3,054,033.

Ezaki, Reona, and Y. Kurose, to Sony Corp. Diode type semiconductor device. 3,033,714, 5–8–62, Cl. 148—33.

Ezrin, Myer: *See—*
Newman, Seymour, and Ezrin. 3,069,406.

Ezrin, Myer, R. A. Isaksen, S. Newman, and R. Buchdahl, to Monsanto Chemical Co. Process for the manufacture of biaxially oriented crystalline polystyrene. 3,052,924, 9–11–62, Cl. 18—48.

Ezzo, Carmen G., to Philco Corp. Electrical apparatus. 3,061,760, 10–30–62, Cl. 317—100.

FMC Corp.: *See—*
Adams, William J., Jr., and Furlong. 3,018,785.
Akerlof, Gosta C. 3,061,413.
Anderson, Gerald R., and Boyce. 3,040,793.
Barlament, Norval S., and Campbell. 3,049,954.
Barrass, Richard A. 3,021,380.
Bays, Carl A. 3,058,730.
Bean, Paul C. 3,024,821.
Belk, Wilber C. 3,018,808.
Belk, Wilber C. 3,024,890.
Belk, Wilber C. 3,031,081.
Belk, Wilber C. 3,040,864.
Belk, Wilber C., and Ellison. 3,018,592.
Belk, Wilber C., and Polk. 3,045,729.
Billett, Ronald J. 3,050,174.
Boyce, John. 3,067,791.
Boyce, John, and Catto. 3,067,849.
Bryan, Loren A., and Miles. 3,031,497.
Caldwell, Ned A., and Frint. 3,050,290.
Carrigan, Tracy. 3,035,447.
Cassidy, Joseph, Pals, and Harris. 3,054,656.
Cilker, William H., and Bartlett. 3,068,133.
Cilker, William H., and Reynolds. 3,068,134.
Cohen, Leon E. 3,039,971.
Creed, Sherman H., and Anderson. 3,024,669.
Creed, Sherman H., and Puccinelli. 3,030,991.
Darbee, Leonard R., Kreuz, and Jenney. 3,062,622.
De Back, William. 3,067,554.
Dorschner, Kenneth P., and Willard. 3,034,881.
Draegher, Albertus G., Jr., and Olsen. 3,052,520.
Drake, Robert W., and Creed. 3,035,620.
Ferris, Arthur F., and Johnson. 3,031,490.
Flack, Walter E. 3,030,868.
French, John F. 3,067,850.
French, John F., and Boyce. 3,031,065.
Frint, William R. 3,028,215.
Frint, William R., and Bauer. 3,037,849.
Gallagher, Gerald T., and Weinberg. 3,026,166.
Galloway, Robert K. Re. 25,140.
Galloway, Robert K. 3,016,808.
Galloway, Robert K. 3,016,847.
Galloway, Robert K. 3,024,961.
Galloway, Robert K. 3,030,869.
Galloway, Robert K. 3,031,186.
Galloway, Robert K. 3,040,634.
Galloway, Robert K. 3,049,847.
Galloway, Robert K. 3,056,483.
Galloway, Robert K. 3,060,651.
Galloway, Robert K. 3,061,168.
Garman, John A., and Tuemmler. 3,035,084.
Gartner, Wilhelm. 3,056,713.
George, Donald K. 3,065,232.
Gould, Francis E. 3,062,869.
Greenspan, Frank P., and Pepe. 3,030,336.
Griffith, Clifford J., and Carr. 3,030,978.
Grubitsch, Heribert. 3,056,270.
Hagerborg, John G. 3,049,757.
Hahn, Herbert S. 3,045,604.
Hait, James M. 3,040,795.
Hait, James M. 3,067,585.
Hamer, Leland S. 3,061,267.
Hanley, William M. 3,063,566.
Hayes, Dudley W. 3,035,511.
Hickey, Frank D. 3,035,886.
Hoffmeister, Hans G. 3,045,733.
Johnson, Grannis S., and Gould. 3,059,018.
Keesling, Thomas E. 3,016,076.
Kerr, Charles B. 3,016,807.
Killion, John F. 3,040,959.
Knoll, Russell D. 3,040,787.
Kreuz, Donald F., and Darbee. 3,030,186.
Latourette, Harold K., and Castrantas. 3,065,245.
Latourette, Harold K., and Castrantas. 3,065,246.
Lebeaux, Jacob M., and De Marsh. 3,050,126.
Liberty, Norman H. 3,056,485.
Lill, Melvin H. 3,017,154.
Liskey, George W. 3,050,100.
Long, Robert S. 3,046,141.
Love, Robert F. 3,026,096.
Marcellus, Manley C., and Scarlett. 3,018,168.
McGrath, Earle J. 3,017,007.
McGrath, Earle J. 3,027,023.
McGrath, Earle J., and Stevenson. 3,050,199.
McRobert, Leon R. 3,030,751.
Morgan, Philip F. 3,058,908.
Mumma, Harold J. 3,017,024.
Mumma, Harold J. 3,040,865.
Mumma, Harold J. 3,040,869.
Mumma, Harold J. 3,056,489.
Mumma, Harold J., and Roberts. 3,031,077.
Nechine, Leonard M. 3,015,279.
Nechine, Leonard M. 3,026,813.

FMC Corp.: *See*—Continued
Newburn, Harold W. 3,016,935.
Olson, Albert M. 3,016,957.
Pianfetti, John A., and Raney. 3,020,303.
Pruitton, Carl F., Miller, and Bryan. 3,062,897.
Puccinelli, Sylvio. 3,018,805.
Redlinger, Jacob F. 3,018,095.
Reynolds, George A. 3,060,601.
Reynolds, George A. 3,067,888.
Roberts, Irving M., and Horvitz. 3,069,412.
Scarlett, John A. 3,031,266.
Schempp, Roy. 3,045,561.
Seaborn, Paul E. 3,031,078.
Sheetz, Charles E. 3,017,013.
Sheetz, Charles E. 3,040,826.
Siwinski, George W. 3,043,666.
Sortor, Charles H. 3,040,566.
Sortor, Charles H. 3,067,801.
Stange, Hugo. 3,060,008.
Stilwell, Robert E. 3,068,025.
Tapleshay, John A. 3,048,339.
Thompson, Howard H. 3,018,768.
Thompson, Wendell S. 3,017,026.
Tidridge, William A., and Cohen. 3,037,935.
Tidridge, William A., and Cohen. 3,037,936.
Tidridge, William A., and Fals. 3,030,213.
Todd, William L. 3,040,772.
Tumey, Lawrence F. 3,030,688.
Tumey, Lawrence F. 3,050,283.
Twitchell, Sherman W., and Bradicich. 3,016,240.
Twitchell, Sherman W., and Bradicich. 3,046,848.
Vadas, Leslie. 3,016,664.
Vadas, Leslie. 3,045,732.
Vadas, Leslie, and Wilbur. 3,045,731.
Viitanen, Veikko K. 3,040,491.
Whitmore, Robert A. 3,016,666.
Wilbur, Paul C., Vadas, and Puccinelli. 3,045,730.
Willard, Joe R., and Dorschner. 3,020,142.
Willard, Paul E. 3,030,341.
Willard, Paul E. 3,049,458.
Wilson, Clifford K., Mount, and Jabbusch. 3,016,936.
Wilson, Clifford K., Mount, and Jabbusch. 3,017,298.
Wilson, Clifford K., Mount, and Jabbusch. 3,024,822.
Zawacki, John P. 3,025,034.

F.T. Products Ltd.: *See*—
Fernberg, Eric B. 3,019,040.
Fernberg, Eric B. 3,044,809.
Fernberg, Eric B. 3,055,103.
Fernberg, Eric B., and Seckerson. 3,061,340.

FWD Corp.: *See*—
Elliott, William F., and Frisch. 3,036,842.
Larson, Arne V., Marshek, Putzer, Schroeder, Wright, and Mann. 3,023,826.
Simonds, George D., Stieg, McLyman, and Larson. 3,050,963.

Fabbri, Ermanno. Automatic wrapping machine for substantially round fruits and like products. 3,059,392, 10–23–62, Cl. 53—227.

Faber, Francis E., to Chrysler Corp. Door hinge and integral check. 3,065,497, 11–27–62, Cl. 16—142.

Faber, Lawrence P., Jr.: *See*—
Frohman, Robert, Post, and Faber. 3,052,842.

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Spiazzi, Ivo. 3,049,075.

Fabbrica Italiana Magneti Marelli S.p.A.: *See*—
Alfieri, Giuseppe. 3,016,271.
Alfieri, Giuseppe. 3,023,052.
Alfieri, Giuseppe. 3,025,077.
Alfieri, Giuseppe. 3,031,234.
Alfieri, Giuseppe. 3,036,596.
Alfieri, Giuseppe. 3,042,153.
Alfieri, Guiseppe. 3,042,456.
Alfieri, Giuseppe. 3,042,456.
Alfieri, Giuseppe. 3,044,930.
Alfieri, Giuseppe. 3,044,495.
Alfieri, Giuseppe. 3,045,703.
Alfieri, Giuseppe. 3,046,061.
Alfieri, Giuseppe. 3,047,341.
Alfieri, Giuseppe. 3,049,351.
Alfieri, Giuseppe. 3,051,016.
Alfieri, Giuseppe. 3,051,199.
Alfieri, Giuseppe. 3,053,102.
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Alfieri, Giuseppe. 3,061,330.
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Alfieri, Giuseppe. 3,066,987.
Alfieri, Giuseppe. 3,065,999.
Rossi, Pietro. 3,067,380.
Zavattaro, Mario. 3,042,913.

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Caviglione, Alessandro. 3,037,483.

Fabbriche Fiammiferi ed Affini, Societa per Azioni: *See*—
Molla, Pietro. 3,035,498.
Molla, Pietro. 3,035,584.

Fabel, George W.: *See*—
Dally, Roy, and Fabel. 3,047,676.

Faber, Benjamin S., to Penn-Akron Corp. Triple face magnetic catch. 3,050,324, 8–21–62, Cl. 292—251.5.

Faber-Castell, A.W.: *See*—
Sattmann, Erhard. 3,030,926.
Schwarzaugl, Josef M. 3,051,133.
Schwarzaugl, Josef M. 3,051,131.

Fabere, Raymond W.: *See*—
Day, Ralph R., and Fabere. 3,050,165.

Fabian, Francis C., Jr., and R. N. Paterson, to Dresser Industries, Inc. Terminal extension fitting. 3,036,601, 5–29–62, Cl. 138—89.

Fabian, Francis G., Jr., J. P. Mann, H. Knippenberg, and R. E. Wainerdi, to Dresser Industries, Inc. Fluid flow meter. 3,049,617 8–14–62, Cl. 250—43.5.

Fabignon, Colette: *See*—
Velluz, Leon, Joly, Bucourt, and Fabignon. 3,052,708.

Fabiszewski, Edward S., to Minneapolis-Honeywell Regulator Co. Weight count generating circuit for data processing systems. 3,036,771, 5–29–62, Cl. 235—153.

Fabiszewski, Edward S.: *See*—
Barbagallo, Charles J., Fabiszewski, and Oliari. 3,037,193.

Fabiszewski, Edward S., and L. G. Oliari, to Minneapolis-Honeywell Regulator Co. Magnetic core computing circuit. 3,040,987, 6–26–62, Cl. 235—176.

Fabregas, Jose Antonio A., to United States of America, Atomic Energy Commission. Steam generators. 3,054,599, 9–18–62, Cl. 257—231.

Fabricacion De Maquinas, S.A.: *See*—
Martin, John K. 3,054,345.

Fabrications Uniecus, Societe dis: *See*—
Perruca, Felix. 3,033,048.

Fabricon Products, Division of The Eagle-Picher Co.: *See*—
Altman, Frank, Jr. 3,044,233.

Fabreeke Products Co.: *See*—
Rogers, William B., Jr. 3,026,224.

Fabric Research Laboratory, Inc.: *See*—
Golub, Samuel J. 3,028,109.

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Trobeck, Karl G., Tirado and Lenz. 3,028,295.

Fabriek Van Electrische Apparaten Voorheen F. Hazenmeijer & Co., N.V.: *See*—
Klaassen, Antonius C. 3,017,480.

Fabriks Aktiebolaget Venta: *See*—
Ostrom, Erik. 3,025,970.

Fabriks AB Forslund & Co.: *See*—
Rehnstrom, Dick L. 3,035,711.

Fabriques de Produits Chimiques de Thann et de Mulhouse: *See*—
Breig, Otto. 3,022,046.

Fabriques Movado: *See*—
Favre, Robert. 3,060,334.
Polo, Raymond. 3,064,415.

Fabriques Movado: *See*—
Favre Robert. 3,028,532.

Fabriques de Produits Chimiques de Thann et de Mulhouse: *See*—
Holbein, Raymond G. 3,025,179.

Fabula, Andrew, to Otis Elevator Co. Moving stairway. 3,049,213, 8–14–62, Cl. 198—16.

Facer, Grant T., and S. A. Kilpatrick, to Kaiser Aluminum & Chemical Corp. Joint structure of overlapped sheets. 3,041,784, 7–3–62, Cl. 50—220.

Fackenthal, Harry: *See*—
Tuck, Robert M., and Fackenthal. 3,027,720.

Fackrell, Ivan D.: *See*—
Dirth, George P., and Fackrell. 3,036,481.

Facs Mfg. Co., Inc., The: *See*—
Cunningham, Fred A., Klatt, Brown, and Slovacek. 3,019,746.
Cunningham, Fred A., Klatt, Brown, and Slovacek. 3,020,162.
Textor, Clinton K. 3,023,140.

Fadden, William J., Jr.: *See*—
Kuljian, Harry A., and Fadden. 3,046,956.

Fader, William L., to United States Steel Corp. Method of producing steel forging and articles produced thereby. 3,066,408, 12–4–62, Cl. 29—552.3.

Faeber, Harry W., to Time, Inc. Spreader apparatus embodying a blade clamping inflatable tube. 3,026,842, 3–27–62, Cl. 118—261.

Faeber, Harry W., to Time, Inc. Laminator. 3,045,585, 7–24–62, Cl. 100—93.

Faeber, Harry W., to Time, Inc. Coating apparatus having blade control means and releasable blade holder. 3,070,066, 12–25–62, Cl. 118—413.

Faeber, Harry W., and G. N. Sandor, to Time, Inc. Rotary vacuum cylinder. 3,037,557, 6–5–62, Cl. 162—370.

Faeber, Harry W., and M. F. Galer, to Time, Inc. Blade controlling device for coating apparatus. 3,057,327, 10–9–62, Cl. 118—413.

Fafnir Bearing Co., The: *See*—
Dickinson, Thorn W. 3,021,148.
Hannon, William F. 3,050,197.
Potter, Howell L. 3,026,601.
Potter, Howell L. 3,027,206.

Fagan, Herbert C.: *See*—
Lebourg, Maurice P., and Fagan. 3,025,794.

Fagan, Roscoe, to Magna Mfg. Corp. Shoe polish applicator. 3,023,448, 3–6–62, Cl. 15—566.

Fagel, Roger, to Ateliers de Constructions Electriques de Charleroi. Driving axles for electrical road vehicles. 3,055,448, 9–25–62, Cl. 180—10.
Fagerholt, Gunnar R., to F. L. Smidth & Co. Method of grinding Portland cement using a phenolic compound as a grinding aid. 3,068,110, 12–11–62, Cl. 106—102.
Faget, Maxime A., W. M. Bland, Jr., and J. C. Heberlig, to United States of America, National Aeronautics and Space Administration. Survival couch. 3,038,175, 6–12–62, Cl. 5—345.
Fagg, Leo W.: *See*—
Sharp, Chester L. 3,036,874.
Faglie, Jack C., trustee: *See*—
Faglie, Jack C. 3,021,453.
Faglie, Jack C., to J. C. Faglie, trustee. Polyphase electroresponsive apparatus. 3,021,453, 2–13–62, Cl. 317—27.
Fagot, Godfrey E., and J. C. Vance, to United States Rubber Co. Control system. 3,051,192, 8–28–62, Cl. 137—391.
Fagrell, Johnny, to International Ytong-Stabalite Co. Ltd. Device for the separation of concrete bodies. 3,021,019, 2–13–62, Cl. 214—1.
Faherty, John L., Jr. Anti-feedback system. 3,050,582, 8–21–62, Cl. 179—1.
Fahey, Edward J., and E. B. Pierce, to All American Engineering Co. Portable hoist. 3,042,375, 7–3–62, Cl. 254—174.
Fahey, James H., Jr., to Joslyn Mfg. and Supply Co. Luminaire. 3,065,339, 11–20–62, Cl. 240—25.
Fahey, John R., and G. L. Schnable, to Philco Corp. Miniature desiccator and production of units thereof. 3,056,074, 9–25–62, Cl. 317—234.
Fahey, Michael D., R. S. Tabke, and R. G. Rickey, to Rayonier Inc. Partial acetylation of cellulose. 3,037,902, 6–5–62, Cl. 162—157.
Fahl, Marcellus W., to United States of America, Navy. Nose cone ejection system. 3,070,018, 12–25–62, Cl. 102—92.5.
Fahlenberg, Paul. One direction driving unit. 3,054,489, 9–18–62, Cl. 192—45.
Fahlbusch, Heinz, and F. Hofer, to Augsburg-Nurnberg A.G., Maschinenfabrik. Shock absorber. 3,059,916, 10–23–62, Cl. 267—9.
Fahlenberg, Paul, to Compur-Werk Friedrich Deckel oHG. Photographic shutter. 3,049,064, 8–14–62, Cl. 95—53.
Fahlenberg, Paul, K. Gebele, and F. Singer, to Compur-Werk G.m.b.H. & Co. Photographic camera focusing mechanism. 3,059,558, 10–23–62, Cl. 95—64.
Fahnrich, Siegfried H.: *See*—
Hilderbrandt, Edmund P., Fahnrich, and Dylewicz. 3,056,622.
Fahrbach, Erich, and W. Heling, to Carl Freudenberg Kommanditgesellschaft auf Aktien, Firma. Method of providing a mandril with a compact uniform covering. 3,069,304, 12–18–62, Cl. 156—264.
Fahrbach, Erich, W. Lauppe, R. Schabert, W. Heling, and C. L. Nottebohm, to Carl Freudenberg Kommanditgesellschaft auf Aktien, Firma. Method of making novel fibrous products containing natural or artificial rubber as a bonding agent. 3,069,305, 12–18–62, Cl. 156—338.
Fahrenbach, Wolfgang B., and F. E. Helmick; said Fahrenbach assor. to said Helmick. Machine for forming cartons. 3,015,256, 1–2–62, Cl. 93—37.
Fahrner, Landon W. Irrigation apparatus. 3,047,236, 7–31–62, Cl. 239—179.
Fahrney, Maxwell E., and G. W. Powell, to Pangborn Corp. Abrasive blasting apparatus. 3,048,947, 8–14–62, Cl. 51—13.
Fahy, William M. Apparatus for removing welding flash and swelling from rod stock. 3,015,995, 1–9–62, Cl. 90—24.
Faiella, John D., to Harvel Research Corp. Composition comprising polysulphide polymer and furfural-ketone reaction product. 3,017,382, 1–16–62, Cl. 260—45.5.
Failla, Ignazio. Bucket excavator slidable on rigid guide particularly for frontal digging at vertcial walls. 3,021,-623, 2–20–62, Cl. 37—103.
Failla, Ignazio. Rigid-guide excavator particularly adapted for the digging of trenches with vertical walls. 3,043,031 7–10–62, Cl. 37—103.
Faillie, André J. Stream-lined aircraft body. 3,028,129, 4–3–62, Cl. 244—117.
Failor, Charles W., to Westinghouse Air Brake Co. Railway track circuits. 3,069,542, 12–18–62, Cl. 246—33.
Fain, Lytton S.: *See*—
Phillips, Harry L., and Fain. 3,063,349.
Phillips, Harry L., and Fain. 3,068,762.
Faini, Julio C. Golf club. 3,039,776, 6–19–62, Cl. 273—164.
Fair, William S., and K. D. Ballou, to American Cyanamid Co. Mixtures of esters of sulfosuccinic acid. 3,043,706, 7–10–62, Cl. 106—287.
Fairbairn, George W.: *See*—
Lopatka, Dale R., and Fairbairn. 3,039,654.
Fairbank, William M.: *See*—
Buckingham, Michael J., and Fairbank. 3,043,512.
Fairbanks, Avard F., to North American Aviation, Inc. Two-band scanning system. 3,025,515, 3–13–62, Cl. 343—6.
Fairbanks, Avard F., to North American Aviation, Inc. Infrared terminal guidance tracking system. 3,064,924, 11–20–62, Cl. 244—14.
Fairbanks, Gordon J., to Stewart-Warner Corp. Flame failure safeguard for combustion heaters. 3,037,551, 6–5–62, Cl. 158—28.
Fairbanks, Lyndoe E.: *See*—
Moule, Rex E., and Fairbanks. 3,025,939.
Fairbanks, Morse & Co.: *See*—
Arnold, Walter C., and Tinder. 3,054,649.
Atherton, William G. 3,027,470.
Dahlman, Herbert C., Rozelle and Amos. 3,039,577.
Farmer, Edward B., and Whitehouse. 3,040,235.
Gaylord, Frank D. 3,066,545.
Hale, John D., and Rolfe. 3,031,021.
Henderson, Robert M., and Zechlin. 3,056,913.
Herrick, George H., Prescott, and Guido. 3,022,739.
Hinderer, Thomas A. 3,049,635.
Marion, Clyde E., Bartlett, and Clark. 3,043,386.
Reardon, John P., and Damon. 3,056,865.
Thorsson, Matthew T. 3,027,080.
Fairchild, Albert R., and A. J. Matthews, Jr., to Western Electric Co., Inc. Apparatus for depositing films on article surfaces. 3,039,952, 6–19–62, Cl. 204—298.
Fairchild Camera and Instrument Corp.: *See*—
Dean, George J. 3,065,387.
Deichert, Robert W. 3,017,624.
Eaton, Roland D. 3,037,136.
Fan, Jason H. S. 3,021,940.
Grinich, Victor H. 3,034,106.
Hoerni, Jean A. 3,025,589.
Hoerni, Jean A. 3,064,167.
Katzmann, Fred L. 3,066,063.
Kim, Young C. 3,032,660.
Kocot, Raymond H., and Bearman. 3,031,580.
Levine, Samuel W., and Autere. 3,022,373.
Linden, Bernard R. 3,067,329.
Lohmeyer, Walter G. 3,030,169.
Maron, Meyer. 3,065,426.
Quinlan, Donald E. 3,027,422.
Reichert, William G., Jr., and George. 3,031,627.
Rosenthal, Adolph H., and Tinto. 3,035,491.
Saykay, Joseph J. 3,017,459.
Saykay, Joseph J. 3,065,388.
Saykay, Joseph J. 3,067,299.
Sclar, Nathan. 3,069,591.
Welch, Albert B. 3,017,515.
Fairchild Engine & Airplane Corp.: *See*—
Bienkle, Herbert A. 3,065,749.
Dickson, William M., Jr., and Miller. 3,023,739.
Stoner, Eugene M. 3,035,495.
Stoner, Eugene M. 3,045,555.
Fairchild Recording Equipment Corp.: *See*—
Snepvangers, Rene C. 3,060,281.
Fairchild, Robert K.: *See*—
St. Clair, Theodore A., and Fairchild. 3,047,298.
Fairchild Stratos Corp.: *See*—
Callen, Robert H. 3,030,828.
Callen, Robert H. 3,033,218.
Clavell, Thomas W. 3,031,039.
Clavell, Thomas W. 3,019,776.
Cozzoli, Michael. 3,059,592.
Gardner, Horace L. 3,056,036.
Greenlees, James C. 3,023,761.
Kramer, Stanley L. 3,040,315.
Mickley, Harold S. 3,037,475.
Samuel, Hubert D., Jr., and Miller. 3,023,740.
Rucks, Walter H. 3,039,486.
Simon, Ralph, Voorhees, Hoess, and Frisby. 3,052,429.
Thieblot, Armand J., and Davis. 3,056,335.
Fairchild, William R. Driving hammer. 3,053,231, 9–11–62, Cl. 121—30.
Fairchild, William R. Pile driver. 3,053,329, 9–11–62, Cl. 175—151.
Fairclough, John H., and H. J. Atkins, to Lantor Ltd. Manufacture of synthetic leather. 3,034,927, 5–15–62, Cl. 117—140.
Fairco Reclaiming Service: *See*—
Megesi, Joseph N. 3,043,432.
Fairey Aviation Ltd.: *See*—
Watson, Edward. 3,030,556.
Watson, Edward. 3,042,856.
Fairey, Thomas E.: *See*—
Johnson, Stanley O., and Fairey. 3,028,091.
Fairfax, Bradford L. Mechanism for manual propulsion of small water craft. 3,038,435, 6–12–62, Cl. 115—21.
Fairfax Mfg. Co., Inc.: *See*—
Kern, George R., Jr. 3,033,503.
Fairfield Engineering and Mfg. Co.: *See*—
Blough, Ronald S. 3,043,267.
Fairfield Shipbuilding and Engineering Co. Ltd., The: *See*—
Davis, Allan W. 3,033,002.
Fairgrieve & Son, Ltd.: *See*—
Nowicki, Joseph M. 3,027,742.
Fairhurst, James. Weighing apparatus for flowing materials. 3,067,621, 12–11–62, Cl. 73—433.
Fairman, Franklyn E.: *See*—
Berger, Harold, and Fairman. 3,025,402.
Fairmont Foods Co.: *See*—
Sass, Dale H. 3,016,644.
Fairmont Railway Motors, Inc.: *See*—
Belau, Roger E., and Lind. 3,045,648.
Fairon, Edward G.: *See*—
Van Wyk, Christiaan F. B., and Fairon. 3,067,895.
Fairweather, Starr W., to Canadian National Railway Co. Railway cars for transportation of vehicles. 3,017,840, 1–23–62, Cl. 105—368.
Faisandier, Jacques. Hollow piston jack and control valve. 3,015,310, 1–2–62, Cl. 121—38.

Faisandier, Jacques. Servo-controls. 3,015,313, 1–2–62, Cl. 121—41.
Faisandier, Jacques. Hydro-electric servo mechanisms. 3,016,883, 1–16–62, Cl. 121—41.
Faisandier, Jacques. Hydro-electric servo mechanisms. 3,025,879, 3–20–62, Cl. 137—623.
Faisandier, Jacques. Servo control system to ensure the rotation of a turning mass. 3,050,036, 8–21–62, Cl. 121—41.
Fajans, Jack, to Electrokinetics Corp. Angle measuring mechanism. 3,063,322, 11–13–62, Cl. 88—2.4.
Fake, Harry B., and L. S. Cutrin, to United Shoe Machinery Corp. Methods of manufacturing Goodyear welt shoes. 3,025,544, 3–20–62, Cl. 12—142.
Fake, Harry B., and L. S. Curtin, to United Shoe Machinery Corp. Shoe sewing machines. 3,004,599, 11–20–62, Cl. 112—62.
Falanga, Bruno J., and G. B. Gerrish; said Falanga assor. to Western Electric Co., Inc. Industrial oven. 3,052,040, 9–4–62, Cl. 34—202.
Falcon, David J., to Aluminum Co. of America. Flame treatment of aluminum. 3,052,014, 9–4–62, Cl. 29—180.
Falconer, David G., to Jonker-Friend Corp. Drafting machine of the guide-wire type. 3,016,614, 1–16–62, Cl. 33—80.
Falconer, David G., to Jonker-Friend Corp. Crossbar drafting and layout machine based on flexible guide elements. 3,016,613, 1–16–62, Cl. 33—80.
Falconer, John H. Three way electric plug. 3,025,486, 3–13–62, Cl. 339—31.
Falconer, John P. Roof construction. 3,028,706, 4–10–62, Cl. 50—48.
Falconer, Robert W.: *See*—
Laucher, Richard G., Budge, Falconer, and Bienert. 3,059,426.
Faler, John A.: *See*—
Shoemaker, Robert H., and Faler. 3,024,139.
Fales, Douglas L., to General Motors Corp. Electronic speed control system. 3,070,185, 12–25–62, Cl. 180—82.1.
Falge, John H.: *See*—
Kirk, Thomas E., and Falge. 3,046,447.
Falge, Robert N., to General Motors Corp. Vehicle headlamp system. 3,062,951, 11–6–62, Cl. 240—7.7.
Falk Corp., The: *See*—
Schmitter, Walter P. 3,029,661.
Falk, Edward J.: *See*—
Schwartz, Robert E., Stahl, and Falk. 3,044,265.
Schwartz, Robert E. Stahl, and Falk. 3,050,944.
Falk, Edward J., R. L. Gold, and S. Schnell, to Wagner Electric Corp. Operating mechanism for friction devices. 3,036,668, 5–29–62, Cl. 188—77.
Falk, George L. Double flue pipe. 3,053,262, 9–11–62, Cl. 131—201.
Falk, Harold W., to Wright Products, Inc. Door check. 3,020,581, 2–13–62, Cl. 16—66.
Falk, Kurt: *See*—
Holzrichter, Hermann, Falk, and König. 3,048,930.
Falk, Louis W. Control valve for ventilating ducts. 3,015,469, 1–2–62, Cl. 251—331.
Falk, Ludwig: *See*—
Hopt, Rudolf, Falk, and Haring. 3,067,373.
Falk, Norman O.: *See*—
Roetter, Robert P., and Falk. 3,064,135.
Falk, Richard A., to Dow Corning Corp. Method of preparing polysiloxane gums. 3,032,530, 5–1–62, Cl. 260—46.5.
Falk, Robert A., to Sperry Rand Corp. Floated gyroscope. 3,020,768, 2–13–62, Cl. 74—5.
Falk, Sven U.: *See*—
Jonsson, Erik, and Falk. 3,049,578.
Falke, Erik, and O. G. Karlsson, to Arenco Aktiebolag. Dryer for tobacco or the like. 3,063,159, 11–13–62, Cl. 34—62.
Fall, Harry W., to Caterpillar Tractor Co. Bracket mounting for bulldozer support frame or the like. 3,065,980, 11–27–62, Cl. 287—20.2.
Fall, Herbert S. Circulating ball bearing track. 3,035,873, 5–22–62, Cl. 308—3.8.
Fall, Herbert S. Horizontally circulating ball bearing vertical track. 3,059,978, 10–23–62, Cl. 308—3.6.
Fallab, Silvio: *See*—
Erlenmeyer, Hans, Fallab, and Hemmerich. 3,048,578.
Fallick, Julius L.: *See*—
Agriss, Norton, and Fallick. 3,018,015.
Falligant, Louis A., and F. W. Kufrin, to Prepo Corp. Gas candle. 3,066,516, 12–4–62, Cl. 67—87.
Falling, Gilard M.: *See*—
Rawlinson, Alvis M., and Falling. 3,019,476.
Fallot, Harold P.: *See*—
Horejs, Edward R., and Fallot. 3,055,468.
Falls Engineering & Machine Co., The: *See*—
Worrall, Ashton L., Jr. 3,043,174.
Wright, David C. 3,049,039.
Falls Paper & Power Co.: *See*—
Joa, Curt G. 3,016,582.
Joa, Curt G. 3,017,795.
Joa, Curt G. 3,020,687.
Joa, Curt G. 3,058,169.
Falotico, Vincent L. Combined storm window and screen construction. 3,043,369, 7–10–62, Cl. 160—91.
Falstaff Brewing Corp.: *See*—
Blum, Peter. 3,048,489.
Faltin, William G. Clip for vehicle dashboard. 3,019,954, 2–6–62, Cl. 224—42.46.
Falzone, Ann C.: *See*—
Falzone, Joseph S. 3,042,014.
Falzone, Joseph S., 20% to J. P. Malone, and 50% to A. C. Falone. Anti-smog means. 3,042,014, 7–3–62, Cl. 123—119.
Fan, Jason H. S., to Fairchild Camera and Instrument Corp. Line-unit dropping mechanism for linecasting machines. 3,021,940, 2–20–62, Cl. 199—61.
Fancher, Kenneth I., to Siegler, Inc. Piston pump. 3,067,694, 12–11–62, Cl. 103—173.
Fancher, Kenneth I., to Siegler, Inc. Two-way pressure responsive flow valve. 3,067,770, 12–11–62, Cl. 137—493.
Fancher, Llewellyn W., and D. R. Baker, to Stauffer Chemical Co. Aryl sulfonyl acetamides as herbicides. 3,039,863, 8–19–62, Cl. 71—2.6.
Fancher, Otis E., G. Nichols, and D. A. Stauffer, to Miles Laboratories, Inc. Carbamyl substituted 2,3,4,5-tetrahydrobenzodiazepine compounds. 3,021,325, 2–13–62, Cl. 260—239.
Fancher, Otis E., and R. N. Schut, to Miles Laboratories, Inc. Phenylpiperazinylacyl anilines. 3,029,241, 4–10–62, Cl. 260—268.
Fancher, Otis E., and G. Nichols, to Miles Laboratories, Inc. Benzothiazepine derivatives. 3,029,251, 4–10–62, Cl. 260—327.
Fancher, Otis E., and S. Hayao, to Miles Laboratories, Inc. Phenylpiperazinylalkyl propionanilides. 3,037,982, 6–5–62, Cl. 260—268.
Fancher, Otis E., and D. A. Stauffer, to Miles Laboratories, Inc. Diagnostic composition. 3,042,496, 7–3–62, Cl. 23—253.
Fancher, Peter C., to Lees, James, and Sons Co. Display rack and shipping case. 3,049,225, 8–14–62, Cl. 206—45.24.
Fang, James C.-S., to E. I. du Pont de Nemours and Co. Coating composition comprising an epoxy resin, an acrylate tripolymer and a latent curing catalyst, and method of preparation. 3,048,552, 8–7–62, Cl. 260—28.5.
Fanick, Ed A., Jr., and W. E. Lamm, to Ed Friedrich, Inc. Refrigerated display cabinets. 3,063,255, 11–13–62, Cl. 62—256.
Fann, James D. Weighing apparatus. 3,057,421, 10–9–62, Cl. 177—149.
Fanner Mfg. Co., The, a Division of Textron, Inc.: *See*—
Schlein, Seymour N. 3,057,443.
Fanning, Samuel P., Jr., to Custom Plastics, Inc. Clothespin. 3,058,186, 10–16–62, Cl. 24—137.
Fannon, Robert D., Jr., and H. J. Behm, to Wagner Electric Corp. Tap changing apparatus. 3,066,208, 11–27–62, Cl. 200—153.
Fansteel Metallurgical Corp.: *See*—
Berg, Calvin A., and Johnson. 3,030,558.
Elter, Karl, and Truscheit. 3,028,422.
Fürer, Rolf, Dorlars, and Enders. 3,029,123.
Hall, James H. 3,036,249.
Hausweiler, Arnold, Seydel, and Stroh. 3,029,276.
Hildebrandt, Robert A., Hovey, and Walters. 3,015,758.
Hoffmann, Helmut, Lorenz, and Schrader. 3,029,248.
Rahlfs, Erich, and Henrich. 3,028,219.
Rahlfs, Erich, Thraum, and Henrich. 3,028,316.
Sasse, Klaus, Wegler, and Unterstenhöfer. 3,029,237.
Sasse, Klaus, Wegler, Unterstenhöfer, and Grewe. 3,029,238.
Schellenberg, Wolf-Dietrich, and Bayer. 3,030,208.
Schnell, Hermann, Bottenbruch, and Krimm. 3,028,365.
Schrader, Gerhard. 3,029,270.
Schrader, Gerhard. 3,030,404.
Yntema, Leonard F., and Kluz. 3,047,419.
Ziegler, Paul F. 3,051,567.
Fant Milling Co.: *See*—
Coleman, Sydney G. 3,065,584.
Fantes, Karl H., and B. Boothroyd, to Glaxo Laboratories Ltd. Antibiotic process. 3,070,505, 12–25–62, Cl. 167—65.
Fanti, Roy A., to United Aircraft Corp. Variable camber blading. 3,042,371, 7–3–62, Cl. 253—78.
Fanti, Roy A., and F. O. Carta, to United Aircraft Corp. Blade damping means. 3,034,762, 5–15–62, Cl. 253—77.
Fantl Joel: *See*—
Lindstrom, Mary D., Fantl, Cohen, and Heaps. 3,058,938.
Faragó, Gyula: *See*—
Heller, László, and Faragó. 3,018,640.
Farago, Jacquelyn L. Safety closure for containers and the like. 3,027,035, 3–27–62, Cl. 215—9.
Farago, John, to E. I. du Pont de Nemours and Co. Process of polymerizing a polyurethane or polyurea resin in the presence of a polyacrylonitrile and product formed thereby. 3,038,876, 6–12–62, Cl. 260—45.5.
Farago, Paul. Steerable wheel vehicle suspension arrangement. 3,039,788, 6–19–62, Cl. 280—96.2.
Farbak, John E.: *See*—
Findley, Thomas W., Robin, and Farbak. 3,033,796.
Farah, William F. Garment. 3,023,421, 3–6–62, Cl. 2—252.
Farbak, John E.: *See*—
Gibson, Paul, Farbak, and Murphy. 3,021,228.
Farbak, John E., H. Gebel, and P. Gibson, to Swift & Co. Plasticizer for yeast. 3,021,221, 2–13–62, Cl. 99—96.
Farbenfabrik Wolfen, VEB: *See*—
Seidel, Felix, Singer, and Springer. 3,067,000.

Farbenfabriken Bayer Aktiengesellschaft: *See*—
Bahr, Ulrich, Andres, and Braun. 3,027,349.
Bartl, Herbert, Bayer, and Scheurlen. 3,035,011.
Baumann, Fritz, and Bien. 3,068,057.
Bestian, Herbert, Schäfer, and Quint. 3,022,316.
Bien, Hans-Samuel, and Baumann. 3,037,836.
Bienert, Berthold, Breig, Groll, and Gutjahr. 3,047,582.
Bier, Gerhard, Gumboldt, Hartmann, and Happe. 3,036,-652.
Bottenbruch, Ludwig, Fritz, and Schnell. 3,062,781.
Breer, Karl, and Weinbrenner. 3,056,661.
Brunk, Konrad. 3,058,516.
Dierichs, Helmut, and Holzrichter. 3,032,586.
Disselnkötter, Hans, and Homeyer. 3,036,951.
Distelmaier, Alfred, and Scholtan. 3,021,260.
Domagk, Gerhard, Schellhammer, Petersen, and König. 3,039,925.
Drapal, Othmar. 3,051,616.
Ebersberger, Josef, Holtschmidt, and Strch. 3,064,056.
Ebneth, Harold. 3,016,375.
Eiter, Karl, Oediger, and Truscheit. 3,069,460.
Eiter, Karl, and Truscheit. 3,017,432.
Eiter, Karl, and Truscheit. 3,021,355.
Eiter, Karl, and Truscheit. 3,038,933.
Eiter, Karl, and Truscheit. 3,061,229.
Fernholz, Hans, and Mundlos. 3,021,365.
Fernholz, Hans, Ruths, and Heimann-Trosien. 3,022,342.
Fischer, Peter, and Pfirschke. 3,057,910.
Frey, Hans H., and Dörfelt. 3,021,302.
Freytag, Helmut, Lober, and Pohle. 3,069,398.
Freytag, Karl-Heinz, and Böckmann. 3,037,013.
Gauss, Walter, and Petersen. 3,037,995.
Gauss, Walter, and Petersen. 3,047,625.
Gerber, Hanns, and Stroh. 3,038,935.
Gerber, Hanns, and Stroh. 3,044,975.
Graulich, Wilhelm, Lehmann, Bayer, Kass, and Berlenbach. 3,062,686.
Groene, Heinz, and Süling. 3,052,656.
Haagen, Karl. 3,051,651.
Hagge, Walter, Dusing, and Kolbe. 3,058,919.
Hagge, Walter, Krause, Quaedvlieg, Schlachter, and Schönol. 3,065,110.
Hagge, Walter, Matthaeus, and Quaedvlieg. 3,024,229.
Hagge, Walter, Quaedvlieg, and Seifert. 3,038,866.
Haltmeier, Alfred. 3,015,450.
Heinz, Anton R. 3,053,824.
Heinz, Anton R., and Graulich. 3,019,192.
Heinz, Anton R., Rosahl, Graulich, and Esser. 3,050,509.
Helferich, Burckhardt, Behnisch, and Wirth. 3,048,518.
Henrich, Gunter. 3,063,806.
Heusch, Rudolf, and Homeyer. 3,070,491.
Hofmann, Rudolf, and Esser. 3,026,167.
Hofmann, Rudolf, Schmidt, Reichle, and Moosmuller. 3,065,224.
Holtschmidt, Hans. 3,016,365.
Holtschmidt, Hans. 3,027,353.
Holtschmidt, Hans. 3,032,535.
Holtschmidt, Hans, and Braun. 3,054,756.
Holtschmidt, Hans, and Muller. 3,027,354.
Holzrichter, Hermann, Falk and König. 3,048,930.
Hoppe, Peter, Paffrath, Weinbrenner, and Breer. 3,052,-927.
Hund, Franz. 3,022,186.
Joseph, Werner, Kaule, and Podschus. 3,020,646.
Kaufmann, Wilfried, and Bauer. 3,060,103.
Kayser, Heinrich, Lorenz, and Schrader. 3,019,250.
Knipp, Ulrich. 3,015,283.
Komarek, Ernst, and Mauthe. 3,065,039.
Köpnick, Horst, Delfs, and Simmler. 3,040,080.
Krimm, Heinrich, and Schnell. 3,064,007.
Krimm, Heinrich, and Schnell. 3,067,169.
Kronig, Walter, and Schleppinghoff. 3,066,927.
Kuhle, Engelbert, Schafer, Eue, and Wegler. 3,063,823.
Lang, Konrad. 3,067,234.
Lang, Konrad, Burger, Horn, and Nützel. 3,061,627.
Lang, Konrad, and Schubert. 3,037,985.
Lang, Konrad, and Schubert. 3,065,267.
Lober, Friedrich, Freytag, and Pohle. 3,047,546.
Lober, Friedrich, Roos, and Kempermann. 3,022,275.
Lorenz, Rudolf, Gosswald, and Henecka. 3,031,377.
Lorenz, Walter. 3,035,082.
Lorenz, Walter, and Schrader. 3,025,316.
Lorenz, Walter, and Schrader. 3,060,080.
Luck, Wolfhard, and Mauthe. 3,025,260.
Luck, Wolfhard, and Mauthe. 3,036,877.
Maier, Walter, and Bernklau. 3,018,609.
Malz, Hugo, Kühle, and Bayer. 3,053,876.
Malz, Hugo, Lober, Bayer, and Scheurlen. 3,044,981.
Malz, Hugo, Wegler, and Untersteinhofer. 3,058,879.
Marzolph, Herbert, Ruf, and Corte. 3,051,741.
Mayer, Karl-Heinrich, and Schnell. 3,017,424.
Meiser, Werner. 3,036,094.
Meiser, Werner, Breitner, Wirth, and Kreiskott. 3,057,-778.
Merten, Rudolf. 3,027,399.
Merten, Rudolf, and Loew. 3,055,845.
Merten, Rudolf, and Loew, and Bayer. 3,047,540.
Merten, Rudolf, Von Brachel, Holtschmidt, and Hauptmann. 3,070,556.
Morschel, Heinrich, and Kauczor. 3,056,745.
Morschel, Heinrich, and Loew. 3,022 255.
Muller, Adam, and Pampus. 3,058,880.

Farbenfabriken Bayer Aktiengesellschaft: *See*—Continued
Müller, Erwin. 3,016,364.
Muller, Erwin, Bayer, and Peter. 3,044,991.
Müller, Erwin, Holtschmidt, and Braün. 3,021,289.
Muller, Erwin, Wiegand, and Braun. 3,050,475.
Müller, Karl E., Holtschmidt, Morschel, and Braun. 3,026,275.
Nawrath, Gunter, Schnegg, and Haberstroh. 3,015,480.
Neumann, Wolfram, and Bayer. 3,058,955.
Nischk, Gunther, and Müller. 3,047,530.
Offe, Hans A., and Federmann. 3,057,866.
Orthner, Ludwig, Herzberg, and Frey. 3,022,263.
Pauli, Otto, and Bauer. 3,064,019.
Peter, Julius, Heidemann, Ellegast, and Juffa. 3,039,297.
Podschus, Ernst, and Joseph. 3,021,195.
Pütter, Rolf, and Suling. 3,040,020.
Quaedvlieg, Mathieu, and Matthaeus. 3,063,983.
Rahlfs, Erich, and Henrich. 3,015,542.
Retter, Walther, Müller, and Zimmerman. 3,047,502.
Rinke, Heinrich, and Bayer. 3,027,225.
Rinke, Heinrich, Lehmann, and Schnell. 3,062,780.
Rinke, Heinrich, and Windemuth. 3,035,475.
Rodenacker, Wolf. 3,031,030.
Rosahl, Dietrich, Graulich, Holzrichter, and Hermann. 3,054,182.
Rösch, Georg, Klappert, and Gehringer. 3,063,779.
Rösch, Georg, Klappert, and Gehringer. 3,063,780.
Sasse, Klaus, Wegler, and Unterstenhofer. 3,040,046.
Schegk, Ernst, and Schrader. 3,021,351.
Schegk, Ernst, and Schrader. 3,042,703.
Schegk, Ernst, and Schrader. 3,056,825.
Schellhammer, Carl-Wolfgang, and Domagk. 3,040,041.
Schellhammer, Carl-Wolfgang, Petersen, and Domagk. 3,069,430.
Schenck, Friedrich. 3,049,553.
Schicke, Hans-Gerd. 3,053,847.
Schliebs, Reinhard. 3,036,110.
Schlör, Hanshelmut, and Eue. 3,070,433.
Schmidt, Karl-Ludwig, Müller, Bayer, Genski, and Peter. 3,036,042.
Schneider, Paul, and Goll. 3,065,196.
Schnell, Hermann, and Bottenbruch. 3,043,800.
Schnell, Hermann, and Büchwald. 3,057,882.
Schnell, Hermann, and Fritz. 3,015,652.
Schnell, Hermann, and Fritz. 3,022,272.
Schnell, Hermann, and Newtwig. 3,061,592.
Schrader, Gerhard. 3,018,301.
Schrader, Gerhard. 3,032,580.
Schrader, Gerhard. 3,047,605.
Schrader, Gerhard. 3,060,217.
Schrader, Gerhard. 3,065,256.
Schrader, Gerhard. 3,067,210.
Schündehütte, Karl-Heinz, Schmidt, Suckfull, and Nickel. 3,024,255.
Schwechten, Heinz-Werner, and Bayer. 3,047,577.
Seifert, Hans. 3,044,969.
Seydel, Robert, Kempermann, Hahn, and Stroh. 3,048,563.
Siegel, Edgar. 3,057,857.
Sohngen, Rudolf. 3,045,858.
Stroh, Rudolf, and Nützel. 3,048,571.
Stroh, Rudolf, and Seydel. 3,051,762.
Suckfull, Fritz, and Nichel. 3,046,271.
Szita, Jenö. 3,047,556.
Thoma, Wilhelm, Bayer, and Rinke. 3,023,100.
Thoma, Wilhelm, Bayer, and Rinke. 3,023,193.
Thoma, Willhelm, and Rinke. 3,043,802.
Thoma, Wilhelm, and Rinke. 3,066,117.
Tresher, Victor Loew, Delfs, and Müller. 3,036,021.
Von Brachel, Hanswilli, Bayer, von Finck, and Langmann. 3,056,695.
Von Brachel, Hanswilli, Esser, Holtschmidt, and Sinn. 3,070,584.
Von Brachel, Hanswilli, Esser, and Muller. 3,062,768.
Von Brachel, Hanswilli, von Finck, and Langmann. 3,047,355.
Von Falkai, Bela, Haberland, Reichle, and Stroh. 3,036,-048.
Von Friedrich, Adolf, and Scriba. 3,018,261.
Wagner, Kuno. 3,046,251.
Wagner, Kuno, and Bayer. 3,023,228.
Wagner, Kuno, Muller, Holtschmidt, and Bayer. 3,043,-801.
Weber, Horst. 3,058,805.
Wedemeyer, Karlfried, Kleb, Dortmann, and Delfs. 3,066,005.
Wegner, Christian, Hess, and Haberland. 3,026,333.
Weinbrenner, Erwin, Hoppe, and Breer. 3,031,271.
Weinbrenner, Erwin, Hoppe, and Breer. 3,063,813.
Weinbrenner, Erwin, Tischbein, Hoppe, and Brochhagen. 3,050 432.
Wiegand, Christian, and Kaemmerer. 3,054,722.
Windemuth, Erwin, and Merten. 3,054,755.
Wolf, Walther, Rosch, Degener, Klappert, and Petersen. 3,058,991.
Wollweber, Hartmund, Hiltmann, Wirth, and Kreiskott. 3,046,298.
Zankl, Erich, and Hebermehl. 3,045,034.
Zorn, Bruno, Luck, and Mauthe. 3,053,697.
Zorn, Bruno, and Mauthe. 3,015,649.

Farber, Harry. Station wagon with extensible roof. 3,053,-562, 9–11–62, Cl. 296—26.

Farber, Henry. Door operated vehicle brake mechanism. 3,040,831, 6–26–62, Cl. 180—82.

Farber, L., Welding Co.: *See*—
Daniels, Harold D. 3,064,368.

Farber, Richard J., to Hazeltine Research, Inc. Linear detector circuit. 3,070,750, 12–25–62, Cl. 329—169.

Farbwerke Hoechst Aktiengesellschaft vormals: *See*—
Kaupp, Josef, Konig, Von Rosenberg, Trager, and Thalhofer. 3,053,681.

Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning: *See*—
Aümuller, Walter, Weyer, and Korger. 3,068,282.
Berlin, Ludwig W., and Hamal. 3,058,978.
Bohme, Horst, and Hartke. 3,046,274.
Doell, Walter. 3,029,229.
Dreyer, Ulrich, and Kirst. 3,058,974
Ehmann, Werner, and Kühlkamp. 3,028,374.
Ehrhart, Gustav, Hennig, Lindner, and Ott. 3,051,618.
Ehrhart, Gustav, Hennig, Lindner, and Ott. 3,051,742.
Ehrhart, Gustav, Hennig, Lindner, and Ott. 3,063,899.
Fernholz, Hans, Heimann-Trosien, and Schmidt. 3,062,863.
Fiesselmann, Hans. 3,062,834.
Fischer, Arnold, and Lenz. 3,029,224.
Fischer, Edgar. 3,069,069.
Fischer, Kurt, and Vester. 3,067,256.
Frensch, Heinz, Goebel, and Czech. 3,060,085.
Fritsch, Werner. 3,063,988.
Fuchs, Otto, Meininger, and Pfeiffer. 3,068,240.
Gies, Helmut, and Happe. 3,058,797.
Gruninger, Hermann, and Hamprecht. 3,036,930.
Gruschke, Hans, and Medem. 3,036,043.
Gruschke Hans, and Medem. 3,057,908.
Haede, Werner, Middendorf, and Fritsch. 3,059,001.
Hambsch, Erich, and Herbold. 3,039,918.
Hennig, Ingeborg, Lindner, and Ott. 3,042,712.
Herbert, Hans, Reiher, and Pfleiderer. 3,059,318.
Hermann, Hans D., and Fischer. 3,046,249.
Heuck, Claus, Rochlitz, Schmidt, Vilcsek, and Winter. 3,070,578.
Hirschbeck, Josef, and Steinrötter. 3,026,172.
Kahrs, Karl-Heinz, and Kühlkamp. 3,061,561.
Kaupp, Josef, Brotz, and Metz. 3,038,815.
Kaupp, Josef, and Metz. 3,060,046.
Kaupp, Josef, and Thalhofer. 3,062,671.
Keicher, Georg, and Stark. 3,055,863.
Koch, Heinrich, and Ebigt. 3,036,977.
Koranth, Erich, and Heuback. 3,070,424.
Kracker, Herbert, Bauer, and Kirst. 3,037,974.
Krause, Walter, Fischer, Wirtz, and Schilken. 3,047,371.
Kühlkamp, Alfred, and Koch. 3,061,560.
Kurzke, Herbert, and Sackel. 3,030,173.
Lammler, Georg, Loewe, and Ross. 3,029,186.
Lindner, Fritz, and Schmidt-Thome. 3,057,782.
Lorentz, Guido M. R. 3,063,959.
Muxfeldt, Hans. 3,036,116.
Nolte, Friedrich, Klug, Orthner, and Herzberg. 3,035,038.
Peters, Heinrich, Schleede, Jochinke, and Klug. 3,025,262.
Protzer, Walter. 3,065,161.
Reindl, Eugen, and Boidol. 3,067,225.
Reindl, Eugen, and Gelbert. 3,069,448.
Reuter, Martin, and Orthner. 3,030,421.
Ribka, Joachim. 3,025,287.
Ribka, Joachim. 3,030,354.
Riemenschneider, Wilhelm, Hornig, Weber, and Dialer. 3,057,915.
Riggert, Karlheinz. 3,016,577.
Roder, Hans-Erich. 3,057,988.
Ruschig, Heinrich, Haede, and Fritsch. 3,028,400.
Ruschig, Heinrich, Schorr, Fussganger, Bauer, and Nesemann. 3,057,881.
Rust, Kurt, Junghanns, Sommer, and Bier. 3,047,557.
Schaeffer, Georg. 3,068,181.
Scherer, Otto, Hahn, and Stähler. 3,020,304.
Schiedrum, Hans-Otto. 3,069,724.
Schlack, Paül, and Kienhöfer. 3,036,875.
Schmidt, Heinz, Reinshagen, Ziemer, and Holzinger. 3,043,111.
Schmitt, Karl, Hennig, Lindner, and Ott. 3,045,043.
Schonberg, Manfred, Wirtz, and Quadflieg. 3,020,293.
Schorr, Manfred, Fussganger, Nesemann, and Bauer. 3,054,822.
Schülde Felix, and Mauz. 3,020,259.
Seidel, Willy, and Knoblauch. 3,040,076.
Siedel, Walter, Nahm, and König. 3,067,247.
Soder, Alfons, and Siedel. 3,030,377.
Sommer, Siegried. 3,045,002.
Starck, Werner, Kahrs, Kuhlkamp, and Ehmann. 3,050,508.
Starck, Werner, Rochlitz, Vilcsek, and Winter. 3,058,935.
Steinrötter, Heinz, and Lorenz. 3,039,845.
Sturm, Karl, Siedel, and Weyer. 3,058,882.
Teske, Wolfgang, and Krettler. 3,063,920.
Waibel, Wilhelm. 3,065,040.
Wallenfels, Kurt A. W., and Draber. 3,043,884.
Wallenfels, Kurt A. W., and Draber. 3,051,725.
Weissermel, Klaus, and Lederer. 3,030,386.
Weissermel, Klaus, and Lederer. 3,054,826.

Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning: *See*—Continued
Weygand, Friedrich, and Geiger. 3,030,380.
Wiberg, Egon, and Hartwimmer. 3,067,003.
Wiberg, Egon, Hartwimmer, and Gumboldt. 3,048,574.
Wimmer, Rudolf, Wirtz, Portz, Fischer, and Schilken. 3,015,619.
Wolfrum, Arthur, Kaltenhäuser, Lorenz, and Relken. 3,042,483.
Wolfram, Arthur, and Lorenz. 3,060,247.
Zorn, Hermann, Pass, and Steininger. 3,068,293.

Farchmin, Harold C. Masonry joint rake. 3,031,704, 5–1–62, Cl. 15—105.5.

Fardig, Oliver B.: *See*—
Hooper, Irving R., Fardig, and Lein. 3,061,516.

Fardig, Oliver B., to Bristol-Myers Co. Methane sulfonates of telomycins. 3,061,515, 10–30–62, Cl. 167—65.

Farekas, Stephen E.: *See*—
Frauhur, Russel E., Costello, Farekas, and Irish. 3,064,540.

Farenkopf. Rudi, to K. P. Mundsinger G.m.b.H. Hygrometer. 3,059,178, 10–16–62, Cl. 324—65.

Fareri, Elizabeth L.: *See*—
Churchill, Arthur V., and Fareri. 3,067,019.

Fareri, Elizabeth L., and J. P. Pellegrini, Jr., to Gulf Research & Development Co. Liquid hydrocarbon fuel compositions. 3,020,135, 2–6–62, Cl. 44—62.

Fareri, Elizabeth L., and J. P. Pellegrini, Jr., to Gulf Research & Development Co. Chemical sweetening of fuel oil. 3,039,956, 6–19–62, Cl. 208—204.

Fareri, Elizabeth L. and J. P. Pellegrini, Jr., to Gulf Research & Development Co. Oil soluble amine salts of long chain alpha-sulfocarboxylic acids. 3,048,607, 8–7–62, Cl. 260—401.

Fareri, Elizabeth L., and J. P. Pellegrini, Jr., to Gulf Research & Development Co. Liquid hydrocarbon fuel compositions. 3,070,429, 12–25–62, Cl. 44—62.

Farevaag, Petter: *See*—
Apel, Francis N., Farevaag, and Bender. 3,049,569.

Fargo, Jarvis J.: *See*—
Anderson, William D., Brandt, Le Clereq, and Fargo. 3,016,598.

Fargo Mfg. Co., Inc.: *See*—
Becker, Stephen F. 3,055,623.
Wengen, Henry R. 3,021,381.
Wheaton, Scott R., and Becker. 3,036,147.

Farhat, Kelly, and F. J. Webb, to The Firestone Tire & Rubber Co. Polymerization of unsaturated hydrocarbons. 3,057,843, 10–9–62, Cl. 260—94.9.

Faries, Alfred M., and M. C. Harp, to Lenkurt Electric Co., Inc. High-voltage inverter using low-voltage transistors. 3,046,495, 7–24–62, Cl. 331—113.

Farinacci, Nicholas T. Aceto methyl polyhydronaphthone propionic acids and lactones and preparation thereof. 3,057,907, 10–9–62, Cl. 260—468.5.

Farinello, Anthony S. Air shoes. 3,048,931, 8–14–62, Cl. 36—3.

Faris, Burt F., to United States of America, Atomic Energy Commission. Precipitation of plutonous peroxide. 3,033,645, 5–8–62, Cl. 23—14.5.

Farkas, Adalbert: *See*—
Erner, William E., Farkas, and Graboyes. 3,037,026.

Farkas, Adalbert, and E. C. Herrick, to Air Products and Chemicals, Inc. Oxides of diazabicyclo-octane. 3,038,903, 6–12–62, Cl. 260—268.

Farkas, Eugene, and R. T. Rapala, to Eli Lilly and Co. Novel 5α,10α-19-nor steroids and method for their preparation. 3,015,666, 1–2–62, Cl. 260—397.5.

Farkas, Robert D., and N. Zingale; said Farkas assor. to said Zingale. Method and apparatus for making thermoplastic covers with an elastic band sealed in the folded edge thereof. 3,035,960, 5–22–62, Cl. 156—196.

Farkas, Thomas F. Fluid pressure responsive switch actuator. 3,039,833, 6–19–62, Cl. 309—1.

Farkass, Imre, to National Research Corp. High vacuum. 3,058,232, 10–16–62, Cl. 34—92.

Farlee, Clarence C., to General Motors Corp. Safety device and cable arrangement for vehicle bodies. 3,043,608, 7–10–62, Cl. 280—150.

Farley, Barbara L. Ornamental apparatus for soilless hydroponic cultivation. 3,018,586, 1–30–62, Cl. 47—1.2.

Farley, Eugene D.: *See*—
Brooks, Linzy W. 3,053,502.

Farley, Francis S. Plastic plasticizing heater. 3,050,779, 8–28–62, Cl. 18—30.

Farley, Wilbur H.: *See*—
Eckles, Geoffrey A., Elliott, Farley, and Schaefer. 3,040,563.

Farmaceutici Italia, Societa: *See*—
Arcamone, Federico, Bertazzoli, Ghione, and Scotti. 3,065,147.
Camerino, Bruno. 3,025,310.
Camerino, Bruno, Modelli, Patelli, Sala, and Baldratti. 3,061,616.
Camerino, Bruno, and Patelli. 3,020,295.
Camerino, Bruno, and Patelli. 3,042,688.
Camerino, Bruno, Patelli, and Cattapan. 3,048,583.
Camerino, Bruno, Patelli, and Sala. 3,060,201.
Camerino, Bruno, Patelli, and Sciaky. 3,068,225.
Camerino, Bruno, Patelli, and Sciaky. 3,068,227.
Camerino, Bruno, Patelli, and Sciaky. 3,068,247.
Camerino, Bruno, Sciaky, and Sala. 3,068,248.
Camerino, Bruno, and Valcavi. 3,068,229.

Farmaceutici Italia, Societa: *See*—Continued
Camerino, Bruno, Valcavi, Sala, and Baldratti. 3,030,390.
Chain, Ernst B., Bonino, and Tonolo. 3,038,840.
Chain, Ernst B., Bonino, and Tonolo. 3,060,104.
Di Marco, Aurelio, Boretti, Barchielli, Spalla, Cattapan, and Bertazzoli. 3,026,316.
Spalla, Celestino, Modelli, and Amici. 3,030,278.
Farmaceutici Italia Farmitalia, Societa: *See*—
Dana, Baron R., and Ray. 3,043,743.
Farmer, Edward B., and D. R. Whitehouse, to Fairbanks, Morse & Co. Shaft rotation senser. 3,040,215, 6–19–62, Cl. 317—130.
Farmer, Guy F., to Pol-Air Inc. Refrigerating apparatus employing fuel as a refrigerant. 3,027,727, 4–3–62, Cl. 62—7.
Farmer, John, to Honolulu Iron Works Co. Fruit treating process. 3,036,920, 5–29–62, Cl. 99—103.
Farmer, Stanley E., and Z. M. Derballi, to Cascade Mfg. Co. Piston and seal construction. 3,033,596, 9–11–62, Cl. 309—52.
Farmery, George K., and L. J. Newman, to Clayton Dewandre Co. Ltd. Power-assisted steering mechanisms for road vehicles. 3,044,569, 7–17–62, Cl. 180—79.2.
Farmery, George K., and W. A. Page, to Clayton Dewandre Co. Ltd. Fluid pressure operated servo braking mechanisms. 3,059,434, 10–23–62, Cl. 60—54.6.
Farming, Aktiebolaget: *See*—
Wulff, Sigurd, Henningsson, and Cassler. 3,062,561.
Farmington Mfg. Co.: *See*—
Conlon, John W. 3,044,149.
Conlon, John W. 3,044,836.
Farm Instruments Corp.: *See*
Singley, Mark E. 3,053,228.
Farnam, Henry E., Jr.: *See*—
Cook, Melvin A., Farnam, Malstrom, and Peterson. 3,037,452.
Farnell, Samuel J., to General Motors Corp. Electrical connector. 3,032,602, 5–1–62, Cl. 174—90.
Farner, Frank: *See*—
Bretscher, Max, Farner, Isch, and Klauser. 3,068,468.
Farney, Leonard J.: *See*—
Ryan, William H., and Farney. 3,058,393.
Farnham, Alford G., to Union Carbide Corp. Polymerization of olefin and catalyst system therefor. 3,041,325, 6–26–62, Cl. 260—93.5.
Farnham, Alford G., and G. B. Stampa, to Union Carbide Corp. Halogen-free catalyst for ethylene polymerization. 3,062,803, 11–6–62, Cl. 260—94.9.
Farnham, Robert E.: *See*—
Paulus, Robert J., and Farnham. 3,050,159.
Farnsworth, Carl D., and R. B. Wheeler, to United States of America, Army. Method and apparatus for disseminating liquids from aircraft. 3,068,179, 12–11–62, Cl. 252—305.
Farnsworth, George H., to I-T-E Circuit Breaker Co. Bus duct plug-in with auxiliary handle. 3,033,951, 5–8–62, Cl. 200—50.
Farnsworth, George H., and J. A. Herrmann, to I-T-E Circuit Breaker Co. Bus duct plug-in with auxiliary handle. 3,033,952, 5–8–62, Cl. 200—50.
Farnworth, Ivan A. Automatic travel adjuster for air brake pistons. 3,029,907, 4–17–62, Cl. 188—102.
Farnsworth-Johnson Corp.: *See*—
Johnson, Otis L. 3,018,860.
Farnsworth, Lee P.: *See*—
King, Thomas F., Farnsworth, and Hannoosh. 3,049,201.
Farnsworth, Robert P., to Hughes Aircraft Co. Switched power supply. 3,040,183, 6–19–62, Cl. 307—77.
Farny, Christopher H.: *See*—
Hall, Raymond L. 3,047,291.
Farny, Cyril: *See*—
Hall, Raymond L. 3,047,291.
Farny, David H.: *See*—
Hall, Raymond L. 3,047,291.
Farny, Michael H.: *See*—
Hall, Raymond L. 3,047,291.
Farquhar, Charles, to Zenith Radio Corp. Tuning devices. 3,021,493, 2–13–62, Cl. 333—78.
Farr Co.: *See*—
Farr, Richard S., and Hardy. 3,030,755.
Farr, Harold K., to The Harris Transducer Corp. Vector bridge. 3,027,511, 3–27–62, Cl. 324—57.
Farr, John D.: *See*—
Krikorian, Nerses H., Farr, and Whitteman. 3,020,632.
Farr, Kenneth E., to Westinghouse Electric Corp. Tuning system for television receivers. 3,018,328, 1–23–62, Cl. 178—5.8.
Farr, Leo E., Jr., and J. P. Hammer, to International Business Machines Corp. Data storage and transfer apparatus. 3,062,438, 11–6–62, Cl. 235—61.9.
Farr, Richard S., and A. W. Hardy, to Farr Co. Self-cleaning filter. 3,030,755, 4–24–62, Cl. 55—456.
Farr, Warren H., to Winter & Co., Inc. Musical string tuning device. 3,048,073, 8–7–62, Cl. 84—205.
Farrah, George H., to Aluminum Co. of America. Electrochemical determination of fluorides. 3,058,901, 10–16–62, Cl. 204—195.
Farrall, Robert A., to General Electric Co. Expanded scale photoelectric device. 3,028,499, 4–3–62, Cl. 250—209.
Farran, Frank F.: *See*—
Anderson, Maynard E., Farran, and Deery. 3,033,423.
Farrand, Clair L., to Inductosyn Corp. Position measuring transformer. 3,064,218, 11–13–62, Cl. 336—129.
Farrand Optical Co., Inc.: *See*—
Lescher, Edmund J., and Tronnier. 3,064,532.
Tronnier, Albrecht W. 3,049,975.
Farrand, William A.: *See*—
Marcum, Norman E., and Farrand. 3,047,869.
Farrar, Harold B.: *See*—
Signorelli, Frank J., and Farrar. 3,029,480.
Farrar, Paul A.: *See*—
Margolin, Harold, Croan, Kirk, and Farrar. 3,069,259.
Farrar, Ralph C., to Phillips Petroleum Co. Production of rubbery polymers with a lithium aluminum hydride-titanium chloride-iodine catalyst. 3,066,129, 11–27–62, Cl. 260—94.3.
Farrell, Adam N., deceased, by E. M. Farrell, administratrix, to General Electric Co. Interdigitated pole assembly. 3,051,859, 8–28–62, Cl. 310—105.
Farrel-Birmingham Co., Inc.: *See*—
Reed, John W., Halworsen, Hold, and Miller. 3,050,837.
Farrell, Evadna M.: *See*—
Farrell, Adam N. 3,051,859.
Farrell, James H., J. P. Hunsaker, and G. Y. Robinson, Jr., to Conch International Methane Ltd. Liquid storage tank. 3,062,402, 11–6–62, Cl. 220—71.
Farrell, Mollie L.: *See*—
Wheeler, Charles J. 3,057,106.
Farrell, Robert E., and C. Nuss, to Chrysler Corp. Power steering pump. 3,059,580, 10–23–62, Cl. 103—42.
Farrell, Thomas C., to Rockwell Mfg. Co. Gas separation. 3,054,419, 9–18–62, Cl. 137—202.
Farrelly, Richard J., to General Electric Co. Electronic commutator. 3,018,449, 1–23–62, Cl. 332—1.
Farrer-Brown, Leslie: *See*—
Groak, Josef. 3,059,530.
Farrer, Harold W., to Walker Mfg. Co. Packing ring. 3,043,436, 7–10–62, Cl. 210—484.
Farrington, Floyd W. Boat hull. 3,045,629, 7–24–62, Cl. 114—56.
Farrington Machines, Inc.: *See*—
Thomson, Elihu C. 3,058,536.
Farrington Mfg. Co.: *See*—
Bradford, John R. 3,034,430.
Farrington, Robert K., to The Thompson Electric Co. Hood for disconnecting and lowering hanger. 3,053,979, 9–11–62, Cl. 240—64.
Farrow, Cecil W., to Bell Telephone Laboratories, Inc. Oscillator synchronizing system. 3,063,021, 11–6–62, Cl. 331—10.
Farrow, Harold F. Printing process and apparatus. 3,055,296, 9–25–62, Cl. 101—151.
Farrow, John G., to Koppers Co., Inc. Process for producing polyethylene monoflaments. 3,029,124, 4–10–62, Cl. 18—54.
Farrow, Ronald L., to Chrysler Corp. Vehicle folding seat structure. 3,053,565, 9–11–62, Cl. 296—66.
Farschungszentrum des Luftfahrtindustrie: *See*—
Schmidt, Wilhelm. 3,068,642.
Farstrup, Erik O. Bed bottom, a seat, or a back-rest. 3,068,493, 12–18–62, Cl. 5—191.
Farthouat, Jean-Marie, to Roussel-UCLAF, S.A. Organic diol aryl boronates. 3,038,926, 6–12–62, Cl. 260—462.
Farwell, Harry R., to J. A. Black. Screen stencilling machine. 3,037,823, 6–5–62, Cl. 101—123.
Farwell, Harry R., to J. A. Black. Apparatus for drying coated sheet stock. 3,029,927, 4–17–62, Cl. 198—134.
Farwell, Ozum, Kirk and Co.: *See*—
Schwartz, Jerome W. 3,041,033.
Farwell, Warren B. Magnetic block. 3,051,875, 8–28–62, Fasal, John H.: *See*—
Bagno, Samuel M., and Fasal. 3,018,311.
Fasanella, George S.: *See*—
Fleming, Earl N., and Fasanella. 3,058,126.
Fasanella, George S., to The Englander Co., Inc. Mattress structure and method of manufacture. 3,059,387, 10–23–62, Cl. 53—24.
Fasano, Fred A. Hoop toys. 3,015,907, 1–9–62, Cl. 46—52.
Fasano, Fred A. Toy vehicle. 3,068,614, 12–18–62, Cl. 46—206.
Fasano, Richard E., to Loft Candy Corp. Tray for conveying candy. 3,025,983, 3–20–62, Cl. 214—307.
Fasciati, Alfred: *See*—
Buehler, Arthur, Fasciati, and Zickendraht. 3,041,327.
Fasciati, Alfred, and R. Gunst, to Ciba Co., Inc. Monoazodyestuffs. 3,040,023, 6–19–62, Cl. 260—153.
Fasco Industries, Inc.: *See*—
Wainwright, William L. 3,067,670.
Faskerty, Gabor, to Siemens & Halske Aktiengesellschaft Berlin and Munich. Method of producing transistor devices. 3,030,693, 4–24–62, Cl. 29—25.3.
Fasold, George A., and W. V. Leibrook, to The Philip Carey Mfg. Co. Square butt strip shingles. 3,045,395, 7–24–62, Cl. 50—226.
Fasold, George A., and R. J. O'Connor, to The Philip Carey Mfg. Co. Fire and weather resistant jacketing. 3,066,793, 12–4–62, Cl. 206—59.
Fassero, Anthony T., and J. R. Maddox, to The James C. Heintz Co. Mold dolly. 3,059,274, 10–23–62, Cl. 18—2.
Fassero, James S.: *See*—
Pierce, Maurice R., and Fassero. 3,046,830.
Fassnacht, Hartwell H.: *See*—
Davis, Clyde O., Fassnacht, Kirst, and Noren. 3,052,578.

Fast, Clarence R.: *See*—
Bearden, William G., Fast, and Howard. 3,065,791.

Fast, Clarence R., and G. C. Howard, to Pan American Petroleum Corp. Testing earth formations. 3,033,286, 5–8–62, Cl. 166—3.

Fast, Clarence R., G. C. Howard, and A. Lubinski, to Pan American Petroleum Corp. Method of fracturing formations. 3,050,119, 8–21–62, Cl. 166—42.

Fasteau, Frederick H., and S. C. Spielberger, to Bulova Research and Development Laboratories, Inc. Thermistors and methods of making same. 3,019,404, 1–30–62, Cl. 338—28.

Fastener Corp.: *See*—
Brown, Ray S., and Briscoe. 3,060,777.
Wandel, Oscar A. 3,040,709.
Wandel, Oscar A., and Doyle. 3,043,272.
Wandel, Oscar A., and Doyle. 3,056,137.

Fastre, Joseph J. J., and T. J. P. Neuhuys, to North American Philips Co., Inc. Method for producing semi-conductive electrode systems. 3,032,862, 5–8–62, Cl. 29—155.55.

Fath, Douglas W., to Cutler-Hammer, Inc. Motor control system. 3,026,460, 3–20–62. Cl. 318—226.

Fath, Douglas W., and C. E. Smith, to Cutler-Hammer, Inc. Motor control system. 3,016,483, 1–9–62, Cl. 318—403.

Fath, Douglas W., and C. E. Smith, to Cutler-Hammer, Inc. Selector switch. 3,034,033, 5–8–62, Cl. 318—467.

Fathauer, David F., to Radson Engineering Corp. Impedance indicating instrument. 3,051,894, 8–28–62, Cl. 324—61.

Fathauer, George H., to Thompson Ramo Wooldridge Inc. Aperture effect correction circuit. 3,034,069, 5–8–62, Cl. 330—165.

Fathauer, George H., and J. E. Summers, to Thompson Ramo Wooldridge Inc. Servo system for light level control. 3,061,673, 10–30–62, Cl. 178—7.2.

Fatula, William F., to Kool vent Metal Awning Corp. of America. Metal awning. 3,016,584, 1–16–62, Cl. 20—57.5.

Fauchon, Leonard J. Log steadying apparatus for veneer lathes. 3,040,791, 6–26–62, Cl. 144—209.

Faudree, Doris W. Apparatus for teaching and learning basic arithmetic. 3,061,947, 11–6–62, Cl. 35—31.

Faulk, Donald P., and W. J. Devine, to Clevite Corp. Filter-transformers. 3,051,919, 8–28–62, Cl. 333—72.

Faulk, Raymond B. Illuminated polyhedric forms. 3,048,694, 8–7–62, Cl. 240—10.

Faulkner, Albert A., to N. W. P. A., R. M., J. A., and J. P. Edmund, d.b.a. Edmund Scientific Co. Apparatus for the examination of contact lenses or the like. 3,068,750, 12–18–62, Cl. 88—40.

Faulkner, Alfred H., to Automatic Electric Laboratories, Inc. Electronic telephone system. Re. 25,139, 3–20–62, Cl. 179—18.

Faulkner, Alfred H., to Automatic Electric Laboratories, Inc. Sender apparatus for a telephone system. 3,024,315, 3–6–62, Cl. 179—18.

Faulkner, Alfred H., to Automatic Electric Laboratories, Inc. Transistor amplifier. 3,028,451, 4–3–62, Cl. 179—6.

Faulkner, Alfred H., to Automatic Electric Laboratories, Inc. Electronic switching system. 3,041,400, 6–26–62, Cl. 179—15.

Faulkner, Alfred H., to Automatic Electric Laboratories, Inc. Automatic electronic telephone system. 3,046,350, 7–24–62, Cl. 179—18.

Faulkner, Alfred H., and D. K. Melvin, to Automatic Electric Laboratories, Inc. Electronic switching system. 3,015,699. 1–2–62, Cl. 179—18.

Faulkner, Alfred H., and D. K. Melvin, to Automatic Electric Laboratories, Inc. Electronic communication system and counting circuits therefor. 3,070,665, 12–25–62, Cl. 179—15.

Faulkner, Glenn E.: *See*—
Lewis, Wallace J., and Faulkner. 3,023,133.

Faulkner, Thomas G. Changeable exhibiters. 3,022,591, 2–27–62, Cl. 40—140.

Faulkner, Thomas G. Changeable exhibiters. 3,022,592, 2–27–62, Cl. 40—140.

Faulkner, Thomas G. Display characters. 3,028,700, 4–10–62, Cl. 40—140.

Faulkner, Willard J., and R. B. Rhoades, to V-M Corp. Reel mounting means. 3,043,533, 7–10–62, Cl. 242—68.4.

Faulkner, Willard J., and J. E. Bayha, to V-M Corp. Control mechanism for phonographs. 3,046,020, 7–24–62, Cl. 274—10.

Faulkner, Willard J., and R. J. Hammond, to V-M Corp. Pickup system for phonographs. 3,046,024, 7–24–62, Cl. 274—23.

Faulkner, William H., Jr., and J. E. Leone, to Laboratory for Electronics, Inc. Radiation monitoring. 3,053,983, 9–11–62, Cl. 250—83.

Faull, John T.: *See*—
Gladfelter, Robert F., Faull, and Gill. 3,021,980.

Faulls, Everett S., Jr.: *See*—
Stelling, Walter R., Jr., and Faulls. 3,034,780.

Faulstich, George W. Plastic water bottle cap. 3,066,820, 12–4–62, Cl. 215—41.

Faultless Caster Corp.: *See*—
Skupas, John A. 3,032,804.
Skupas, John A., Godwin, and Martin. 3,032,805.
Skupas, John A., and Stollman. 3,060,488.

Faultless Rubber Co., The: *See*—
Cox, Alvon R., and Hosier. 3,055,054.

Faunce, John H., to United States Steel Corp. Railroad car truck. 3,028,820, 4–10–62, Cl. 105—197.

Faure, Bernard, to Faure & Cie. Gas burners. 3,028,909, 4–10–62, Cl. 158—132.

Faure & Cie: *See*—
Faure, Bernard. 3,028,909.

Faure, Henry. Homokinetic universal joint. 3,067,595, 12–11–62, Cl. 64—8.

Faure Herman, Jean. Equipment for distributing liquid and gate valve for operating it. 3,030,808, 4–24–62, Cl. 73—262.

Faure, Jean-Marie. Hypodermic syringes. 3,058,467, 10–16–62, Cl. 128—272.

Faurie, Georges, to Evans Products Co. Bicycle construction. 3,063,735, 11–13–62, Cl. 280—289.

Fauser, Ernest E.: *See*—
Snyder, Carl E., Seeger, Fauser, Finelli, and Lovell. 3,043,807.

Fauser, Richard F., to Aurora Corp. of Illinois. Musical instrument key action. 3,026,760, 3–27–62, Cl. 84—423.

Fauser, Richard F., to Aurora Corp. of Illinois. Plastic molding for covering musical instrument keys. 3,032,455, 5–1–62, Cl. 154—43.

Faust, Charles L.: *See*—
Clifford, John E., and Faust. 3,051,638.

Faust, Ellwood L., and R. R. Harter, to International Harvester Co. Potato digging and harvesting device. 3,065,-800, 11–27–62, Cl. 171—98.

Faust, Francis S., and E. R. Edmunds, to R. G. Wright Co., Inc. Glassware washer. 3,070,104, 12–25–62, Cl. 134—145.

Faust, John A., and M. Sahyun; said Faust assor. to said Sahyun. Xanthene and thiaxanthene cyclic amidines. 3,042,674, 7–3–62, Cl. 260—251.

Faust, John P., to Olin Mathieson Chemical Corp. Process for preparing diborane. 3,019,083, 1–30–62, Cl. 23—204.

Faust, John P., E. Pogle, and T. L. Heying, to Olin Mathieson Chemical Corp. Method for production of magnesium hydride. 3,030,184, 4–17–62, Cl. 23—204.

Faust, Ludwig: *See*—
Räntsch, Kurt, and Faust. 3,020,802.

Faust, Martin H., and F. Stevenson, to Penn Dale Knitting Mills. Method of knitting fabric. 3,063,271, 11–13–62, Cl. 66—82.

Faustel, Inc.: *See*—
Stelling, Walter R., Jr., and Faulls. 3,034,780.

Fauth, William L., Jr.: *See*—
Sherman, Jerome, Sharbaugh, Fauth, Palladino, and De Huff. 3,060,111.

Faux, Kenneth R., and J. V. Titsworth, to Lear Siegler, Inc. Vertical gyroscope erection cut-off device. 3,056,304, 10–2–62, Cl. 74—5.41.

Faux, Kenneth R., and J. V. Titsworth, to Lear Siegler, Inc. Gimbal erector. 3,069,912, 12–25–62, Cl. 74—5.34.

Favin, David L., to Bell Telephone Laboratories, Inc. Data signal distortion measuring circuit. 3,041,540, 6–26–62, Cl. 328—14.

Favin, David L., to Bell Telephone Laboratories, Inc. Method and apparatus for synchronizing oscillators. 3,049,675, 8–14–62, Cl. 331—44.

Favolise, Peter. Combined can opener and food can. 3,042,-249, 7–3–62, Cl. 220—48.

Favre, John A., to General Electric Co. Operating mechanism for circuit breaker. 3,023,285, 2–27–62, Cl. 200—87.

Favre, Robert, to Fabriques Movado. Arrangement for electro-magnetically sustaining the movement of a spiral balance spring. 3,028,532, 4–3–62. Cl. 318—132.

Favre, Robert, to Fabriques Movado. Mechanical oscillator. 3,060,352, 10–23–62, Cl. 310—38.

Fawcett, Howard N., to Cambridge Instrument Co., Inc. Magnetic head and method of operation. 3,043,918, 7–10–62, Cl. 179—100.2.

Fawcett, Paul W., to United States Steel Corp. Escapement for automatic wire-tying machine. 3,051,077, 8–28–62, Cl. 100—26.

Fawick Corp.: *See*—
Andrus, Everett H. 3,058,562
Banker, Oscar H. 3,021,730.
Banker, Oscar H. 3,024,798.
Banker, Oscar H. 3,032,018.
Banker, Oscar H. 3,032,134.
Banker, Oscar H. 3,051,142.
Banker, Oscar H. 3,070,202.
Fawick, Thomas L. 3,017,004.
Fawick, Thomas L. 3,022,877.
Fawick, Thomas L. 3,051,284.

Fawick, Thomas L., to Fawick Corp. Centrifugal clutch assembly. 3,017,004. 1–16–62, Cl. 192—105.

Fawick, Thomas L., to Fawick Corp. Assembly for clutches and brakes. 3,022,877, 2–27–62, Cl. 192—88.

Fawick, Thomas L., to Fawick Corp. Centrifugal clutch. 3,051,284, 8–28–62, Cl. 192—105.

Fawick, Thomas L. Hose coupling having fluid pressure balancing means. 3,051,511, 8–28–62, Cl. 285—106.

Fawkes, Donald G., to Henry Pratt Co. Rotary valve. 3,020,019, 2–6–62, Cl. 251—175.

Faxon, Morris. Separable furniture construction. 3,030,146, 4–17–62, Cl. 297—422.

Fay, Charles H.: *See*—
Arbogast, James L., and Fay. 3,052,837.

Fay, Homer, P. H. Mohr, and G. A. Cook, to Union Carbide Corp. Emission spectrometer. 3,032,654, 5–1–62, Cl. 250—43.5.

Fay, James P. First stage regulator. 3,045,688, 7–24–62, Cl. 137—63.
Fay, James P. Breathable gas regulator apparatus. 3,050,076, 8–21–62, Cl. 137—63.
Fay, James P., and J. K. Pickard, to The Teletrak Corp. Head adjusting means for signal recording or reproducing apparatus. 3,029,318, 4–10–62, Cl. 179—100.2.
Fay, John A.: *See*—
Jordan, Hans, and Fay. 3,028,869.
Fay, John A., to Waste King Corp. Dishwasher with door and timer switch interlock. 3,028,870, 4–10–62, Cl. 134—58.
Fay, John A., F. C. Stephens, K. J. Fleming, and H. Jordan, to Waste King Corp. Dishwasher. 3,058,479, 10–16–62, Cl. 134—144.
Fay, Louis E., III, to The Bendix Corp. Hall effect resolver. 3,028,092, 4–3–62, Cl. 235—189.
Fay, Paul M.: *See*—
Neal, James. 3,041,856.
Fay, Philip S., E. O. Hook, E. C. Hughes, and C.-W. Liao, to The Standard Oil Co. Novel boron-phosphorus containing compounds and gasolines containing the same. 3,031,280, 4–24–62, Cl. 44—63.
Fay, Russell H., to The Dow Chemical Co. Styrene polymer composition containing butyl stearate and a metal compound. 3,057,813, 10–9–62, Cl. 260—31.2.
Fay, W. H., Co., The: *See*—
Gregg, William. 3,070,386.
Fay, Wayne, and L. B. McClure, to General Refractories Co. Refractory product and method of manufacture. 3,026,212, 3–20–62, Cl. 106—68.
Fayard, Georges G., to Office National d'Etudes et de Recherches Aeronautiques. Machine control device. 3,051,386, 8–28–62, Cl. 235—151.
Fayard, Georges G., to Office National d'Etudes et de Recherches Aeronautiques. Machine control. 3,051,389, 8–28–62, Cl. 235—180.
Fayard, Georges G., to Office National d'Etudes et de Recherches Aeronautiques. Machine control. 3,051,391, 8–28–62, Cl. 235—197.
Fayard, George G., to Office National d'Etudes et de Recherches Aeronautiques. Control unit for machine tool. 3,059,852, 10–23–62, Cl. 235—180.
Fayne, Owen F.: *See*—
Durkin, Joseph A., and Fayne. 3,070,281.
Fazekas, Laszlo: *See*—
Meissler, Ivan M., and Fazekas. 3,016,771.
Fazio, Charles P., R. M. Nelson, and B. A. Nickerson, to W. R. Grace & Co. Ballast release device for balloons. 3,058,694, 10–16–62, Cl. 244—31.
Feagin, Roy C.: *See*—
Horton, Robert A., Ashbrook, and Feagin. 3,019,497.
Fearing, Ralph B., E. N. Walsh, and J. G. Brady, to Stauffer Chemical Co. Chloromethyl thionopyrophosphate esters and their use as pesticides. 3,020,198, 2–6–62, Cl. 167—22.
Fearing, Ralph B., and E. N. Walsh, to Stauffer Chemical Co. Stabilized pesticidal compositions. 3,060,083, 10–23–62, Cl. 167—42.
Fearon, Robert E., to Well Completions, Inc. Apparatus and method for conditioning and analyzing earth components. 3,031,571, 4–24–62, Cl. 250—52.
Fearon, Robert E., and J. M. Thayer, to Well Surveys, Inc. Well logging by selective detection of neutrons by resonant capture. 3,019,337, 1–30–62, Cl. 250—83.1.
Fearon, William: *See*—
Elford, William E., and Fearon. 3,058,792.
Feaster, John H. Rotary engine. 3,035,553, 5–22–62, Cl. 121—63.
Feathers, Robert E., and R. H. Rogerson, to Pittsburgh Plate Glass Co. Improvement in the catalytic oxidation of tetrachlorethane. 3,040,109, 6–19–62, Cl. 260—654.
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Fechheimer, Paul R., and W. H. Harlan, to Cherry-Burrell Corp. Filling head for filling machines. 3,056,436, 10–2–62, Cl. 141—59.
Fecht, Helmut: *See*—
Richter, Eugen. 3,066,668.
Fecker, Elsa: *See*—
Schiegries, Eduard. 3,061,265.
Fecker, J. W., Inc.: *See*—
Wight, Ralph H. 3,051,039.
Fedco Corp.: *See*—
Press, John E., and Safianoff. 3,069,105.
Fedde, George A., and R. H. Aires, to Philco Corp. Color television receiver with random color line selector. 3,033,920, 5–8–62, Cl. 178—5.4.
Fedders Corp.: *See*—
Weiss, Walter W. 3,064,443.
Feder, Allen M. Radar simulation plate and fabricating process therefor. 3,052,042, 9–4–62, Cl. 35—10.4.
Feder, Harold M.: *See*—
Martin, Allan E., Johnson, Burris, Winsch, and Feder. 3,063,830.
Feder, Herbert S., to Bell Telephone Laboratories, Inc. Switching circuit. 3,060,267, 10–23–62, Cl. 179—15.
Feder, Herbert S., and F. K. Manasse, to Bell Telephone Laboratories, Inc. Switching system. 3,068,322, 12–11–62, Cl. 179—15.
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Federal Aircraft Works, Inc.: *See*—
Ditter, Francis J., and Kaercher. 3,069,820.
Federal-Huber Co.: *See*—
Monson, Oscar P. 3,023,784.
Williams, Frank N. 3,023,769.
Federal Industries, A Textron Co.: *See*—
Post, Richard G. 3,053,492.
Federal-Mogul-Bower Bearings, Inc.: *See*—
Bagdon, Richard J. 3,017,759.
Johnson, Raymond G. 3,057,045.
Kempff, Wolfgang A., and Lepetich. 3,027,165.
Kohler, Theodor B., and Aho. 3,051,534.
Lund, Richard C., and Bowen. 3,028,203.
Ortegren, Herman A. 3,028,658.
Rhoads, George D., Peickii, and Carson. 3,021,161.
Federal Pacific Electric Co.: *See*—
Cole, Thomas M. 3,068,379.
Cole, Thomas M. 3,069,517.
Gibbons, Richard F., and Hughes. 3,041,419.
Koch, George R. 3,055,396.
Kolton, David. 3,038,430.
Kolton, David. 3,056,872.
Martin, Paul S. 3,046,433.
Mills, Donald C. 3,041,431.
Norden, Alexander R. 3,028,459.
Norden, Alexander R. 3,040,144.
Norden, Alexander R. 3,041,505.
Oravec, John J. 3,022,391.
Schlessel, Joseph H., and Hornstein. 3,041,506.
Federal Paper Board Co., Inc.: *See*—
Arneson, Edwin L. 3,018,942.
Arneson, Edwin L. 3,029,977.
Arneson, Edwin L. 3,053,432.
Arneson, Edwin L. 3,062,404.
Kaestner, Thankmar W. 3,038,284.
Page, John E. 3,053,428.
Federkiel, Wilhelm: *See*—
Eisele, Julius, Federkiel, Schuster, Gehm, Tartter, Grasen, Ahland, and Stoecki. 3,037,030.
Federline, William P., and E. A. Scholtes. Sectional door for truck bodies. 3,056,451, 10–2–62, Cl. 160—201.
Federmann, Manfred: *See*—
Offe, Hans A., and Federmann. 3,057,866.
Federspiel, Robert P. Vehicle splash guard. 3,051,508, 8–28–62, Cl. 280—154.5.
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Fedkew, Theodore: *See*—
Luciana, Donald W., and Fedkew. 3,051,001.
Fedorowicz, Joseph S., to The B. F. Goodrich Co. Ring life buoy. 3,032,789, 5–8–62, Cl. 9—340.
Fedrick, Jack R.: *See*—
Fenske, Donald M., Fedrick, and Miller. 3,068,575.
Fedrick, James L., G. S. Redin, and R. G. Shepherd, to American Cyanamid Co. Benzenesulfonamido-halo-pyrimidines: anti-bacterials. 3,048,519, 8–7–62, Cl. 167—51.5.
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Feely, Wayne E., to Rohm & Haas Co. Process of cyanation. 3,046,278, 7–24–62, Cl. 260—283.
Feely, Wayne E., to Rohm & Haas Co. Sunburn preventive compositions. 3,061,520, 10–30–62, Cl. 167—90.
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Feener, Bartholomew E. Manual contour sander. 3,034,267, 5–15–62, Cl. 51—187.
Feerick, Aubrey A., and K. I. Glass, to Monsanto Chemical Co. Propylene tetramer. 3,041,386, 6–26–62, Cl. 260—683.15.
Feeser, John R., to Camco, Inc. Magnetically set packer. 3,027,944, 4–3–62, Cl. 166—63.
Fefer, Gregory, to Sparcatron Ltd. Electric disintegration of conductive materials. 3,020,448, 2–6–62, Cl. 315—138.
Fefer, Morton: *See*—
Cottle, Delmer L., Minckler, and Fefer. 3,037,968.
Minckler, Leon S., Jr., Fefer, and Cottle. 3,033,837.
Fegan, George J., to Chromium Mining & Smelting Corp., Ltd. Electric resistance, gas-tight furnace. 3,017,262, 1–16–62, Cl. 75—28.
Fegely, Hugh S., and R. D. Till, to Westinghouse Electric Corp. Automatic fault finder system. 3,048,742, 8–7–62, Cl. 315—205.
Fegley, Marian F.: *See*—
Bortnick, Newman M., and Fegley. 3,065,237.
Fehling, Heinz, to Licentia Patent-Verwaltungs-G.m.b.H. High speed circuit breaker with shuttle armature. 3,024,-330, 3–6–62, Cl. 200—94.
Fehlinger, John N. Heating control system. 3,059,854, 10–23–62. Cl. 236—91.
Fehlmann, Hans B. Elevating plant. 3,018,850, 1–30–62, Cl. 187—17.
Fehlmann, Hans B., to A.G. fur Grundwasserbauten. Filtering apparatus. 3,061,100, 10–30–62, Cl. 210—108.

Fehlmann, Hans B. Device for digging an excavation. 3,061,957, 11–6–62, Cl. 37—195.
Fehlner, Leo F.: *See*—
Lasky, Marvin L., and Fehlner. 3,039,077.
Fehn, Frank P., to E. W. Bliss Co. Variable speed drive means. 3,061,748, 10–30–62, Cl. 310—98.
Fehrer, Ernst, Yarn making process. 3,041,817, 7–3–62, Cl. 57—156.
Feibelman, Hans J., to Coro, Inc. of Rhode Island. Magnetic earring construction including means to concentrate the magnetic force. 3,034,320, 5–15–62, Cl. 63—14.
Feich, Quintin C.: *See*—
Woodward, James A. 3,058,032.
Feichtinger, Hans, and S. Puschhof, to Ruhrchemie Aktiengesellschaft. Fungicidal amine salts. 3,067,092, 12–4–62, Cl. 167—22.
Feiertag, Arthur W., to Royal McBee Corp. Electric card groover. 3,066,565, 12–4–62, Cl. 83—400.
Feifert, Edward A., to The Colorado Fuel and Iron Corp. Collapsible spiders. 3,041,001, 6–26–62, Cl. 242—55.54.
Feige, Kurt, to Betonbau G.m.b.H. Device for fastening boards to tubular supports and the like. 3,042,432, 7–3–62, Cl. 287—51.
Feightner, James P.: *See*—
Gray, Leslie V., and Feightner. 3,038,121.
Feigin, Emanuel. Dip stick wiper. 3,041,730, 7–3–62, Cl. 33—126.7.
Feigl, Robert, to Anderson Oil & Chemical Co., Inc. Germicidal and fungicidal compositions. 3,068,262, 12–11–62, Cl. 260—438.
Feigleson, Charles O., to Collins Radio Co. Analog-voltage shaft positioning system. 3,020,459, 2–6–62, Cl. 318—28.
Feigley, David A., Jr., to Armstrong Cork Co. Method and apparatus for regulating consistency. 3,020,765, 2–13–62, Cl. 73—434.
Feigley, David A., Jr., and L. N. Ray, Jr., to Armstrong Cork Co. Beater saturated asbestos products containing fluorescent brightening agents. 3,056,714, 10–2–62, Cl. 162—155.
Feigley, David A., Jr., and L. N. Ray, Jr., to Armstrong Cork Co. Nitroso dye in asbestos beater saturation. 3,056,715, 10–2–62, Cl. 162—155.
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Feigley, David A., Jr., and L. N. Ray, Jr., to Armstrong Cork Co. Deposition of synthetic rubber on dyestuff-reacted asbestos fibers. 3,056,717, 10–2–62, Cl. 162—155.
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Feild, George B.: *See*—
Carson, James S., Feild, Kegan, Markwood, and Whitney. 3,018,252.
Feild, George B., to Hercules Powder Co. Cross-linking of poly (vinyl chloride). 3,017,379, 1–16–62, Cl. 260—41.
Feild, George B., and W. H. Mackwood, Jr., to Hercules Powder Co. Hydrocarbon gel. 3,020,133, 2–6–62, Cl. 44—7.
Feild, Theophilus A., Jr., to Union Carbide Corp. Production of embossed pile fabrics. 3,052,947, 9–11–62, Cl. 28—72.
Feild, W. Terry: *See*—
Doyle, William M. 3,029,754.
Feiler, Alfred M., to Pneumo Dynamics Corp. Embedment anchor. 3,032,000, 5–1–62, Cl. 114—206.
Feiler, Alfred M., and G. S. Light, to Pneumo Dynamics Corp. High-line transfer system. 3,059,590, 10–23–62, Cl. 104—114.
Feiler, Leonard, A. H. Gruben, and H. H. Leiner, to Sinclair Research, Inc. Novolak-diisocyanate synthetic resin solutions thereof, and method of making laminates. 3,043,-794, 7–10–62, Cl. 260—33.6.
Feiler, Robert A.: *See*—
Schumacher, Bernard P., Feiler, Kubisiak, and Thomas. 3,033,738.
Fein, Samuel: *See*—
Millington, John H. T., and Fein. 3,068,905.
Feinberg, Alan R. Temperature and pressure relief valve. 3,040,764, 6–26–62, Cl. 137—73.
Feinberg, Albert E., to Advance Transformer Co. Ballast. 3,038,135, 6–5–62, Cl. 336—165.
Feinberg, Albert E., to Advance Transformer Co. Ballast apparatus for gaseous discharge devices. 3,040,208, 6–19–62, Cl. 315—97.
Feinberg, Albert E., to Advance Transformer Co. Gaseous discharge ballast and system. 3,050,659, 8–21–62, Cl. 315—257.
Feinberg, Albert E., to Advance Transformer Co. Electromagnetic square wave producing device. 3,069,597, 12–18–62, Cl. 315—254.
Feinberg, Albert E., and F. S. Endo, to Advance Transformer Co. Transformer core construction. 3,023,385, 2–27–62, Cl. 336—165.
Feindt, Heinrich, to Licentia Patent-Verwaltungs-G.m.b.H. Electric motor with speed responsive switch. 3,058,045, 10–9–62, Cl. 318—325.
Feinman, Jerome, to United States Steel Corp. Method of reducing ore in a fluidized bed. 3,021,208, 2–13–62, Cl. 75—26.
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Feinn, Louis S. Rope skipping device. 3,064,971, 11–20–62, Cl. 272—75.
Feinn, Louis S. Rope turning device. 3,064,972, 11–20–62, Cl. 272—75.
Feinstein, Ben, and L. Wirth. Auto top carrier. 3,061,256, 10–30–62, Cl. 248—163.
Feinstein, Jack, to United States of America, Navy. Phonograph test method. 3,019,024, 1–30–62, Cl. 274—46.
Feinstein, Joseph, to Bell Telephone Laboratories, Inc. Electron discharge devices. 3,069,594, 12–18–62, Cl. 315—39.3.
Feinstein, Julius Y.: *See*—
Owen, Nathan B., and Feinstein. 3,027,419.
Feinstein, Lester, and M. E. Weiss, to Sylvania Electric Products, Inc. Electron discharge device. 3,041,493, 6–26–62, Cl. 313—246.
Feinstone, Wolfe H., to Plough Laboratories, Inc. Silicone composition for the relief of gastrointestinal distress and method of using same. Re. 25,205, 7–24–62, Cl. 167—55.
Feiring, Monroe J. Rotary ball valve having adjustable seats. 3,058,484, 10–16–62, Cl. 137—328.
Feis, Nikolaas, to Stichting Nationaal Luchtvaartlaboratorium. Smokestack, more especially a ship's funnel. 3,021,811, 2–20–62, Cl. 114—187.
Feissel, Henri G., to Machines Automatiques Modernes (Societe Anonyme). Level limiting emitter biasing circuit for preventing complete cut-off of transistor. 3,041,471, 6–26–62, Cl. 307—77.
Feissel, Henri G., to Compagnie des Machines Bull (Societe Anonyme). Process for data recording. 3,044,696, 7–17–62, Cl. 235—61.12.
Feist, Martha: *See*—
Beyer, Eugen. 3,056,134.
Feit, Aloysius J.: *See*—
Feit, Jerome A. and A. J. 3,041,244.
Feit, Jerome A. and A. J. Quirone hair dye compositions. 3,041,244, 6–26–62, Cl. 167—88.
Fejes, Anton, to Adolf Berglein. Ball point pen. 3,065,732, 11–27–62, Cl. 120—42.16.
Fejmert, Bernhard V. Machine for mixing different kinds of materials. 3,069,145, 12–18–62, Cl. 259—178.
Fejmert, Erik V. Cement mixing machine. 3,020,029, 2–6–62, Cl. 259—178.
Fekel, Hubert: *See*—
Dubsky, Borivoj, Straka, Felkel, and Feuereisl. 3,035,-569.
Fekete, Frank, to Union Carbide Corp. Process for making phosphorus-containing organosilicon compounds. 3,019,248, 1–30–62, Cl. 260—448.8.
Fekete, Frank, to Union Carbide Corp. Phosphorus containing organosilicon compounds. 3,067,229, 12–4–62, Cl. 260—448.2.
Felber, Fritz: *See*—
Noser, Renato, and Felber. 3,030,567.
Felburg, Robert A. Variable impedance. 3,027,531, 3–27–62, Cl. 338—183.
Felburg, William F., and M. G. Meugnoit, to Aeroquip Corp. Ventilated band clamp. 3,059,947, 10–23–62, Cl. 285—410.
Felburn, John P. Brake construction. 3,034,601, 5–15–62, Cl. 188—78.
Felch, Elroy L., to The American Agricultural Chemical Co. Condensation of phosphorus vapor with liquid phosphorus. 3,068,070, 12–11–62, Cl. 23—223.
Feldbauer, George F.: *See*—
Epperly, William R., Tuttle, Feldbauer, and Tysen. 3,063,934.
Felder, Howard B., to Clark Equipment Co. Torque measurement apparatus. 3,049,003, 8–14–62, Cl. 73—136.
Felder, John L. Method of producing vitreous clay products. 3,050,812, 8–28–62, Cl. 25—156.
Feldermann, Florence B.: *See*—
Feldermann, William. 3,055,645.
Feldermann, John B.: *See*—
Feldermann, William. 3,055,645.
Feldermann, William, deceased, by F. B. and J. B. Feldermann, executors. Humidifier assembly. 3,055,645, 9–25–62, Cl. 261—28.
Feldkamp, John G., to Acme Steel Co. Binder strap guide track. 3,070,001, 12–25–62, Cl. 100—25.
Feldman, Albert J. Tag dispenser for packages. 3,029,939, 4–17–62, Cl. 206—80.
Feldman, Allan M.: *See*—
Frank, Simon, and Feldman. 3,026,353.
Feldman, Charles, to Devohn Corp. Method for forming luminescent screens. 3,046,154, 7–24–62, Cl. 117—33.5.
Feldman, Charles S., to Eastern Research Corp. Ratchet wrench with pivoted head. 3,023,652, 3–6–62, Cl. 81—60.
Feldman, Edward M., and D. F. Gould II, to United States of America, Navy. Aircraft velocity recording device. 3,046,401, 7–24–62, Cl. 250—83.3.
Feldman, Herman: *See*—
Sams, Martin, and Feldman. 3,064,227.
Feldman, Julian: *See*—
Murib, Jawad H., and Feldman. 3,067,009.
Feldman, Lawrence. Timepiece movement. 3,020,702, 2–13–62, Cl. 58—52.
Feldman, Louis I.: *See*—
Holmlund, Chester E., Feldman, Kissman, and Weiss. 3,047,569.
Feldman, Louis I., N. E. Rigler, A. J. Shay, and B. E. Nielsen, to American Cyanamid Co. Production of 1,4-pregnadienes by bacterial fermentation. 3,037,912, 6–5–62, Cl. 195—51.

Feldman, Louis I., A. J. Shay, and N. E. Rigler, to American Cyanamid Co. Microbiological delydrogenation of Δ^4 steroids of the pregnene series using bacterium mycoides. 3,037,913. 6–5–62, Cl. 195—51.

Feldman, Louis I., B. E. Nielsen, and J. H. Mowat, to American Cyanamid Co. Bacterial production of triamcinolone by bacterial formulations. 3,037,914, 6–5–62, Cl. 195—51.

Feldman, Louis I, L. M. Fruess, and N. E. Rigler, to American Cyanamid Co. Preparation of 1-hydroxylated steroids. 3,039,937, 6–19–62, Cl. 195—51.

Feldman, Louis I., N. E. Rigler, A. J. Shay, and B. Nielsen, to American Cyanamid Co. Process for the 6β-hydroxylation of steroids with mortierella. 3,060,101, 10–23–62, Cl. 195—51

Feldman, Louis I., N. E. Rigler, C. E. Holmlund, and B. Nielsen, to American Cyanamid Co. 2-hydroxy-9α-fluoro pregnenes and pregnadienes. 3,063,991, 11–13–62, Cl. 260—239.55.

Feldman, Milton. Automatically adjusting holding device. 3,020,058, 2–6–62, Cl. 279—123.

Feldman, Rubin, to The Emerson Electric Mfg. Co. Process of and composition for controlling temperatures. 3,022,190, 2–20–62, Cl. 117—37.

Feldman, Samuel S., and S. Greenberg. Game board. 3,069,-168, 12–18–62, Cl. 273—130.

Feldman, Sidney, S. A. Gregory, and A. J. Lawes, to United States of America, Navy. Relamping tool for searchlights. 3,047,940, 8–7–62, Cl. 29—203.

Feldmann, Fritz S., H. F. Gehlhaar, C. R. Herrmann, and P. C. Petre, to Aerojet-General Corp. Gyro pull rocket. 3,067,682, 12–11–62, Cl. 102—49.

Feldmann, Paul, to Dan River Mills, Inc. Divinyl sulfone derivatives useful for rendering cellulosic textile fabric crease-resistant. 3,068,123, 12–11–62, Cl. 117—139.4.

Feldmann, William L.: *See*—
Chynoweth, Alan G., Feldmann, and Pearson. 3,053,998.

Feldmuhle Papier- und Zellstoffwerke Aktiengesellschaft: *See*—
Hass, Karl, Ottersky, and Stolzel. 3,037,928.
Klingler, Emil, and Dawihl. 3,032,427.
Thier, Richard, 3,023,900.
Thier, Richard, Mayer, and Meinl. 3,061,731.

Feldt, Charles A., and G. T. Kekish, to Nalco Chemical Co. Weakly basic anion exchange resins. 3,047,516, 7–31–62, Cl. 260—2.1.

Feldt, Reinhold W.: *See*—
Swanson, Caleb V., Jr., and Feldt. 3,020,528.

Felhofer, Robert W., and C. M. Fink. Collapsible pet house and carrying case. 3,042,264, 7–10–62, Cl. 119—19.

Felins Tying Machine Co.: *See*—
Kohler, Herman, 3,041,096.

Felix, Joseph, ½ to M. E. Sparrow and ½ to W. G. Mulligan. Loom for weaving non-cylindrical fabrics. 3,016,068, 1–9–62, Cl. 139—11.

Felkel, Hubert: *See*—
Dubsky, Borivoj, Straka, Felkel, and Feuereisl. 3,045,-666.

Felker, Jean H., to Bell Telephone Laboratories, Inc. Transistor amplifier circuits. 3,025,412, 3–13–62, Cl. 307—88.5.

Felks, Dennis E.: *See*—
Chapman, Dennis R., and Felks. 3,043,537.

Fell, William B. Micro-precision levels. 3,030,710, 4–24–62, Cl. 33—212.

Fell, William B. Micro-precision level. 3,034,220, 5–15–62, Cl. 33—212.

Fellberg, Hans W., to L. F. Guenther, and W. F. Mitchell, d.b.a. Guenther-Mitchell Engineering Co. Safety valve. Re. 25,211, 7–31–62, Cl. 137—118.

Fellendorf, Frederick G., to Westinghouse Electric Corp. Electrical circuit for indicating the failure of diodes. 3,045-,168, 7–17–62, Cl. 321—14.

Feller, Donald R.: *See*—
Griffin, Donald N., and Feller. 3,021,667.
Migdal, Nicholas T., and Feller. 3,060,722.

Feller, Gilbert: *See*—
Schneider, Hans, and Feller. 3,047,942.

Feller, Robert G., and J. J. Sweeney, to The Okonite Co. Method of making electric cables. 3,047,448, 7–31–62, Cl. 156—56.

Feller, Thomas R., to Allis-Chalmers Mfg. Co. Locking and removal device for impellers. 3,061,342, 10–30–62, Cl. 287—53.

Fellerman, Jerrold J.: *See*—
Roxburgh, Albert, Leigh, and Fellerman. 3,069,521.

Fellers, Howard L. Knockdown building. 3,052,291, 9–4–62, Cl. 160—90.

Fellers, John C., and E. L. Morin, to Seabrook Farms Co., Division of Francis H. Leggett & Co. Process for the prevention of after cooking gray discoloration in potatoes and other vegetables. 3,049,427, 8–14–62, Cl. 99—154.

Fellowes, John E., to Bankers Box Co. Collapsible container. 3,018,029, 1–23–62, Cl. 229—39.

Fellows, Charles G.: *See*—
Spracklen, Stanford B., Campbell, and Fellows. 3,041,869.

Fellows Gear Shaper Co., The: *See*—
Burnham, Clarence W. 3,036,337.
Cobb, Neal L. 3,021,765.

Fellows, Harrison E. Foundry system and apparatus. 3,068,537, 12–18–62, Cl. 22—20.

Fellows, Horace, to H. M. Hobson Ltd. Flowmeters. 3,029,-637, 4–17–62, Cl. 73—194.

Fellows, Walter. Skin bleaching composition. 3,060,097, 10–23–62, Cl. 167—91.

Felmet, Frederick W., ½ to R. H. King. Gripping and pulling implement. 3,056,191, 10–2–62, Cl. 29—256.

Felner, Herbert M.: *See*—
Seiler, William. 3,027,637.

Felps, Newton O.: *See*—
Bolch, Adrian D., Jr., and Felps. 3,023,607.

Fels & Co.: *See*—
Richards, Joseph W. 3,046,835.

Felsch, Henry W. Guiding stick and hoop toy. 3,049,833, 8–21–62, Cl. 46—220.

Felsten, Benjamin, to Food Fair Stores, Inc. Vehicle storage and transporting means. 3,051,336, 8–28–62, Cl. 214—85.

Felt, Arthur E.: *See*—
Kerley, Robert V., and Felt. 3,038,792.

Felten & Guilleaume Carlswerk Aktiengesellschaft: *See*—
Friesenhagen, Engelbert. 3,040,883.
Sonneborn, Willi. 3,049,596.
Waldick, Leo. 3,046,499.

Felten, Major. Collapsible bar. 3,033,632, 5–8–62, Cl. 312—90.5.

Felten, Major. Armchair key switches. 3,036,183, 5–22–62, Cl. 200—159.

Felter, John V. Heat pump and method of operation. 3,060,-698, 10–30–62, Cl. 62—160.

Felton, Donald L., to The Kay-Dee Co. Storage file. 3,031,-125, 4–24–62, Cl. 229—34.

Feltrop, Floyd L. Self-levelling ladder. 3,037,581, 6–5–62, Cl. 182—202.

Felts, Basil B. Water-resistant watch crown. 3,035,407, 5–22–62, Cl. 58—90.

Felts, Gordon P., ¼ to Arthur W. Jarrett, and ¼ to Robert W. Seeger. Fishhook extractor. 3,019,547, 2–6–62, Cl. 43—53.5.

Felts, Gordon P., to Microdot Inc. Mechanically locked electrical connector. 3,051,925, 8–28–62, Cl. 339—91.

Felts, Herman, to General Electric Co. End terminal for sheathed tubular beater and method of manufacture. 3,036,368, 5–29–62, Cl. 29—155.69.

Felts, Herman, to General Electric Co. End terminal for sheathed tubular heater. 3,067,397, 12–4–62, Cl. 338—243.

Feltus, Henry J., to Goulds Pumps, Inc. Submersible pump. 3,070,027, 12–25–62, Cl. 103—102.

Femiano, Dominic J. Simple radar system. 3,058,105, 10–9–62, Cl. 343—13.

Fend, Gebruder: *See*—
Fend, Kurt. 3,025,833.

Fend, Kurt, to G. Fend. Multicolor pen or pencil. 3,025,833, 3–20–62, Cl. 120—14.5.

Fendall Co.: *See*—
Liantuad, Philip J. 3,016,797.

Fender, Keith L.: *See*—
Levin, Eugene A., and Fender. 3,027,072.

Fener, Alfred, to N. Langer. Art of heat sealing and severing thermopiastic films. 3,015,601, 1–2–62, Cl. 156—515.

Fenestra, Inc.: *See*—
Dobbins, Mark, Gruber, Repp, and Rockhoff. 3,049,198.
Gruber, Joseph J., and De Falco. 3,049,199.
Gruber, Joseph J., and De Falco. 3,068,535.

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Fengler, Willy, to Platenius-Vertriebs G.m.b.H. Standardized frame element for windows, doors and the like. 3,040,-389, 6–26–62, Cl. 20—11.

Fenik, Robert D., to Minneapolis-Honeywell Regulator Co. Method of applying an electrically conductive contact material and resulting coated article. 3,021,233, 2–13–62, Cl. 117—227.

Fenix, Gilbert J., and S. E. Scisson, to Fenix & Scisson, Inc. Underground mining bell. 3,039,580, 6–19–62, Cl. 193—33.

Fenix & Scisson, Inc.: *See*—
Fenix, Gilbert J., and Scisson. 3,039,580.

Fenn Mfg. Co., The: *See*—
McMartin, James I. 3,029,669.

Fenn, Raymond R.: *See*—
Hutchinson, John W., Fenn, and Preiss. 3,042,449.

Fenn, Raymond T., to The New Britain Machine Co. Indexing machine tool. 3,063,131, 11–13–62, Cl. 29—64.

Fennebresque, John D., and I. E. Muskat, to Celanese Corp. of America. Plastic laminates. 3,041,217, 6–26–62, Cl. 154—43.

Fennell, Anthony A. Method and means for operating a soaking pit. 3,051,462, 8–28–62, Cl. 263—15.

Fennell, Francis L. R., to E. I. du Pont de Nemours and Co. Pulp bleaching. 3,069,309, 12–18–62, Cl. 162—26.

Fennema, Richard, and J. A. McInerney, to Crane Co. Gate valve with concentric flow passages. 3,057,378, 10–9–62, Cl. 137—625.18.

Fennema, Richard, and A. E. Anderson, to Crane Co. Conduit gate valve. 3,065,951, 11–27–62, Cl. 251—172.

Fenner, J. H., & Co. Ltd.: *See*—
Hainsworth, Sidney B., and Watts. 3,029,166.

Fenner, Jack V., to Dow Corning Corp. Method of reducing silicone rubber flexure set. 3,024,214, 3–6–62, Cl. 260—37.

Fenner, James M., to United States Steel Corp. Cord and article containing the same. 3,032,963, 5–8–62, Cl. 57—145.

Fennessy, John J., to Minnesota Mining and Mfg. Co. Overload switching device. 3,050,508, 8–21–62, Cl. 200—61.46.
Fennick, Benjamin, to The Bendix Corp. Phase selective diode gate circuit. 3,030,522, 4–17–62, Cl. 307—88.5.
Fennig, Troy L., to Central Soya Co., Inc. Recovery of soybean meats from screenings. 3,057,562, 10–9–62, Cl. 241—14.
Fenrich, Karl E.: *See*—
Williams, Arthur H., and Fenrich. 3,068,552.
Fenrich, Vernon T.: *See*—
Burk, Le Roy, and Fenrich. 3,064,593.
Fenselau, Alfred, to P. Beiersdorf & Co. A.-G. Process and apparatus for the application of pressure-sensitive adhesives to limited areas of the carrier. 3,033,702, 5–8–62, Cl. 117—38.
Fenske, Donald M., J. R. Fedrick, and R. N. Miller, to Ling-Temco-Vought, Inc. Three-dimensional data plotting apparatus. 3,068,575, 12–18–62, Cl. 33—20.
Fenske, Douglas H.: *See*—
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Le Baron, Ira M., and Fenske. 3,016,138.
Fenske, Douglas H., to International Minerals & Chemical Corp. Ore beneficiation process. 3,032,195, 5–1–62, Cl. 209—166.
Fenske, Douglas H., and J. F. Haseman, to International Minerals & Chemical Corp. Ore beneficiation process. 3,067,875, 12–11–62, Cl. 209—166.
Fenske, Merrell R., to Esso Research and Engineering Co. Preparation of esters of aromatic acids. 3,036,117, 5–22–62, Cl. 260—475.
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Fenton, Frank W., to Beacon Machinery, Inc. Mechanical dockboard. 3,031,701, 5–1–62, Cl. 14—71.
Fenton-Smith, Denzil D. Reciprocating piston and double slide and slide end plate engine and pump. 3,042,011, 7–3–62, Cl. 123—50.
Fenwal, Inc.: *See*—
Jess, Thurman S., Morrisette, and Poitras. 3,064,802.
Walter, Carl W. Re. 25,129.
Yanikoski, Florian F. 3,038,979.
Ferar, Montgomery: *See*—
Hinkel, Lester H., and Ferar. 3,028,209.
Feraud, Roger A., and R. O. Alder, to Societe Nationale d' Etude et de Construction de Moteurs d'Aviation. Rocket propulsion method. 3,048,966, 8–14–62, Cl. 60—35.4.
Fercana, James E.: *See*—
Foster, John P., Dickerhoof, and Fercana. 3,062,548.
Ferch, James E. Hopper for auger conveyors. 3,035,682, 5–22–62, Cl. 198—64.
Ferdinand Lentjes Kesselschmiede u. Maschinenbau: *See*—
Prang, Peter, and Textor. 3,019,095.
Ferenc, John S.: *See*—
Blackman, Seymour N., and Ferenc. 3,059,639.
Ferenczy, William J.: *See*—
Warnsdorfer, Clifford J., Jr., Ferenczy, and Babiy. 3,057,536.
Ferguson, Albert C. Metal umbrella. 3,040,478, 6–26–62, Cl. 50—49.
Ferguson, Charles S.: *See*—
Masterson, James F., and Ferguson. 3,037,860.
Ferguson, Edgar A., Jr. Vitamin-orotic acid compositions. 3,020,278, 2–6–62, Cl. 260—256.6.
Ferguson, Edgar A., Jr. Calcium nicotinate iodide. 3,020,286, 2–6–62, Cl. 260—295.5.
Ferguson, Edgar A., Jr., to Fine Brands Corp. Shape-retaining peanut spread. 3,044,883, 7–17–62, Cl. 99—128.
Ferguson Fumigants, Inc.: *See*—
Dawson, Joseph C., and Millard. 3,041,684.
Dawson, Joseph C., and Cathcart. 3,058,538.
Ferguson, George L., Jr.: *See*—
Holmberg, Carl O., Jr., and Ferguson. 3,053,405.
Ferguson, George R., to Perfecting Service Co. Air line lubricator with measured lubrication. 3,044,574, 7–17–62, Cl. 184—55.
Ferguson-Hander Box Co.: *See*—
Thompson, George V. 3,057,535.
Ferguson, Harry, Research Ltd.: *See*—
Hill, Claude. 3,029,654.
Hill, Claude. 3,059,504.
Ferguson, Hugh J.: *See*—
Moritz, Donald B., and Ferguson. Re. 25,225.
Ferguson, Joe S.: *See*—
Pierce, Russell F., and Ferguson. 3,052,283.
Ferguson, Joe S., to Union Carbide Corp. Spiral roll of perforated thermoplastic multiple tubing and method and apparatus for producing same. 3,018,882, 1–30–62, Cl. 206—56.
Ferguson, John E., to Guy F. Atkinson Co. Device for connecting parts together. 3,045,785, 7–24–62, Cl. 189—36.
Ferguson, John G., to Bell Telephone Laboratories, Inc. Magnetic gradiometer system. 3,064,185, 11–13–62, Cl. 324—43.
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Ferguson, John H., Jr., to The Bendix Corp. Combustion starter having overspeed safety. 3,066,487, 12–4–62, Cl. 60—39.14.
Ferguson, John H., Jr., and H. R. Schmider, to The Bendix Corp. Cartridge-type turbine starter. 3,021,672, 2–20–62, Cl. 60—39.14.
Ferguson, Millard A., to General Motors Corp. Universal weld current analyzer. 3,034,057, 5–8–62, Cl. 324—132.
Ferguson, Robert T., Jr., to Robinson Tag & Label Co. Baggage tags. 3,052,051, 9–4–62, Cl. 40—21.
Ferguson, Ronald W., and E. M. Low, to Burroughs Corp. Data registering and marking machine. 3,025,787, 3–20–62, Cl. 101—95.
Ferguson, Warren N.: *See*—
Starnes, Charles O., Ferguson, and Pressley. 3,061,890.
Ferk, Lawrence A., and C. W. Kuhn, to Cutler-Hammer, Inc. Shockproof contactor. 3,057,980, 10–9–62, Cl. 200—103.
Ferlin, Henry J.: *See*—
Karabinos, Joseph V., Hazdra, and Ferlin. 3,062,878.
Ferlin, Henry J., R. E. Brady, and W. J. Merwin, to Olin Mathieson Chemical Corp. Sulfamic acid. 3,051,551, 8–28–62, Cl. 23—166.
Ferling, George G.: *See*—
Beggs, Robert K., and Ferling. 3,069,757.
Ferm, Carl W., to D & F Engineering, Inc. Cap for barrel tap opening. 3,064,849, 11–20–62, Cl. 217—114.
Ferm, Joseph S., to Northrop Corp. Resistor mounting clamp. 3,029,057, 4–10–62, Cl. 248—316.
Ferm, Richard L., to California Research Corp. Lubricating oil composition containing oxyalkylated carbonated basic sulfonate. 3,032,501, 5–1–62, Cl. 252—33.
Ferm, Richard L., and J. H. Walker, to California Research Corp. Process for carbonated metal phenates. 3,055,951, 9–25–62, Cl. 260—624.
Ferrocarbo Laboratories, Inc.: *See*—
Scott, Don, and Hammer. 3,016,336.
Fermier, Rex M. A., to Lovejoy Flexible Coupling Co. Flexible coupling. 3,019,622, 2–6–62, Cl. 64—15.
Fermskog, Ernst G. V. Grinders for saw-blades. 3,063,205, 11–13–62, Cl. 51—156.
Fernald, Olaf T.: *See*—
Heffron, Charles B., and Fernald. 3,045,062.
Fernald, Olaf H., and C. B. Heffron, to Westinghouse Electric Corp. Electron discharge device circuits. 3,062,914, 11–6–62, Cl. 178—5.4.
Fernald, William P.: *See*—
Kapnick, Willard, and Fernald. 3,034,139.
Fernandez-Moran Villalobos, Humberto. Diamond cutting tool having an edge thickness of 0.001 to 0.01 micron. 3,060,781, 10–30–62, Cl. 83—651.
Fernandez Rivas, Luis A.: *See*—
Page, John K., and Fernandez Rivas. 3,059,221.
Fernberg, Eric B., to F.T. Products Ltd. Fastener. 3,019,040, 1–30–62, Cl. 287—53.
Fernberg, Eric B., to F.T. Products Ltd. Fastener. 3,044,-809, 7–17–62, Cl. 287—53.
Fernberg, Eric B., to F.T. Products Ltd. Method of making sheet metal fasteners. 3,055,103, 9–25–62, Cl. 29—549.
Fernberg, Eric B., and C. A. Seckerson, to F.T. Products Ltd. Fastener. 3,061,340, 10–30–62, Cl. 287—20.5.
Ferneau, Richard H.: *See*—
Bourgraf, Elroy E., and Ferneau. 3,039,119.
Fernekees, James E., and L. R. Harper, to International Business Machines Corp. Information storage calculation system. 3,028,583, 4–3–62, Cl. 340—172.5.
Ferner, Warren E., to Johns-Manville Fiber Glass Inc. Liquid recovery method and apparatus. 3,029,161, 4–10–62, Cl. 117—102.
Fernholz, Hans, and E. Mundlos, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of sorbic acid. 3,021,365, 2–13–62, Cl. 260—526.
Fernholz, Hans, K. Ruhs, and K. Heimann-Trosien, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of sorbic acid. 3,022,342, 2–20–62, Cl. 260—526.
Fernholz, Hans, K. Heimann-Trosien, and H.-J. Schmidt, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Brüning. Process for the manufacture of vinylesters. 3,062,863, 11–6–62, Cl. 260—476.
Ferno, Ove B.: *See*—
Hogberg, Knut B., and Ferno. 3,053,734.
Fernseh G.m.b.H.: *See*—
Bähring, Herbert, and Bender. 3,052,809.
Dillenburger, Wolfgang, and Koch. 3,040,125.
Ferodo, Societe Anonyme Francaise du: *See*—
Lepelletier, Pierre A. 3,044,581.
Maurice, Jean. 3,064,774.
Maurice, Jean, and Rist. 3,042,164.
Ferracute Machine Co.: *See*—
Martindell, Frank. 3,053,122.
Ferragamo, Henry L.: *See*—
De Curtis, Joseph, and Ferragamo. 3,020,614.
Ferran, Juan V. Method of making picker sticks for use in shuttle looms. 3,020,187, 2–6–62, Cl. 156—250.
Ferran, Robert J., and E. C. Brainard, II, to Trans-Sonics, Inc. Mass flow meter. 3,068,693, 12–18–62, Cl. 73—204.
Ferrante, Gerald R., to Shell Oil Co. Stable emulsions. 3,052,562, 9–4–62, Cl. 106—287.

Ferrante, Gerald R., and R. C. Morris, to Shell Oil Co. Stabilized wrapped foodstuff compositions. 3,041,183, 6–26–62, Cl. 99—171.
Ferrante, Joseph F., to Cornell-Dubilier Electric Corp. Capacitor construction. 3,024,393, 3–6–62, Cl. 317—242.
Ferranti, Albino. Motor-flywheel unit. 3,022,433, 2–20–62, Cl. 310—74.
Ferranti, Albino. System and related device for balancing hydraulic presses in general. 3,070,146, 12–25–62, Cl. 153—21.
Ferranti, Ltd. : *See*—
Alexander, Ludovic W. G., and Taylor. 3,036,271.
Angus, Ernest T., and Walker. 3,039,040.
Brown, Kenneth R. 3,047,750.
Brown, Kenneth R., and Gray. 3,024,409.
Gee, Frank W. 3,069,640.
Good, Richard S. J., Walker, and Williamson. 3,051,140.
Gribble, Maurice W., and Rushton. 3,061,821.
Hall, Geoffrey, and Highton. 3,044,030.
Highton, Keith R. 3,029,402.
McKennell, Raymond, and Bradfield. 3,062,040.
Powley, Mallinson, and Sykes. 3,018,476.
Scarrott, Gordon G., and Welby. 3,044,593.
Ferrar, Robert C., to International Telephone and Telegraph Corp. Signal level recording receiver. 3,029,336, 4–10–62, Cl. 250—2.
Ferrar, Robert C., and R. B. Hoffman, to International Telephone and Telegraph Corp. Fault location system. 3,045,-113. 7–17–62, Cl. 250—15.
Ferrar, Robert C., and H. A. French, to International Telephone and Telegraph Corp. Communication system. 3,048,-840, 8–7–62. Cl. 343—100.
Ferrara, Achille K. Vibratory polishing and de-burring device. 3,037,327, 6–5–62, Cl. 51—7.
Ferrara, Adolph C. : *See*—
Mayer, Siegfried K., and Ferrara. 3,049,749.
Ferrara, John M., to Nalco Chemical Co. Treatment of petroleum products. 3,052,626, 9–4–62, Cl. 208—204.
Ferrara, John M., and J. E. Ryder, to Nalco Chemical Co. Treatment of petroleum products. 3,068,171, 12–11–62, Cl. 208—288.
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Ferrari, Alfredo, and A. Gasser, to Contina Bureaux-und Rechenmaschinenfabrik Aktiengesellschaft. Motion picture reflex camera. 3,062,090, 11–6–62, Cl. 88—16.
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Ferrari, Andrés, Jr., to Technicon Instruments Corp. Analysis and production-monitoring methods and apparatus. 3,018,224, 1–23–62, Cl. 195—103.5.
Ferrari, Andres, Jr., to Technicon Instruments Corp. Analysis or other processing of gaseous fluids. 3,028,224, 4–3–62, Cl. 23—232.
Ferrari Andres, Jr., to Technicon Instruments Corp. Method and apparatus for use in conducting studies on cells. 3,065,148, 11–20–62, Cl. 195—103.5.
Ferrari, Carlo : *See*—
De Ruggieri, Pietro, and Ferrari. 3,043,832.
De Ruggieri, Pietro, and Ferrari. 3,062,713.
De Ruggieri, Pietro, Ferrari, and Gandolfi. 3,029,262.
Ferrari, Charles G., and K. Higashiuchi, to J. R. Short Milling Co. Methods for preparing oxidatively active composition. 3,047,406, 7–31–62, Cl. 99—232.
Ferrari, Ernest R., 33⅓% to H. G. Jacobsen, and 33⅓% to V. I. La Fountaine. Carbide tips for saws. 3,048,207, 8–7–62, Cl. 143—133.
Ferrari, Federico. Method for simultaneously hand-painting a plurality of pictures. 3,030,721, 4–24–62, Cl. 41—26.
Ferrari, John. Process for the production of meat products having stabilized color. 3,032,420, 5–1–62, Cl. 99—107.
Ferrari, Luigi, to Firma Belotti Industria Autogru-Altre Macchine, Vacuum motor sweeper. 3,054,130, 9–18–62, Cl. 15—340.
Ferrari, Neal N., and D. N. Menichella ; said Menichella assor. to said Ferrari. Neurological manikin. 3,020,652, 2–13–62, Cl. 35—17.
Ferrari, Roy W. : *See*—
Sgricia, Mario T., and Ferrari. 3,055,311.
Ferraris, John T. : *See*—
Allen, Oliver L., Ferraris, and Lampe. 3,046,586.
Bartos, John B., Doughman, Ferraris, and Moughty. 3,048,897.
Belicka, Michael E., Borkoski, and Ferraris. 3,039,129.
Ferraro, Joseph V. : *See*—
Nigrelli, Biagio J., Standley, Wittman, and Ferraro. 3,034,270.
Ferraro, Luigi, and A. Cressi, also known as E. Cressi. Swimming fins or flippers. 3,055,025, 9–25–62, Cl. 9—309.
Ferre, Maurice C., to Schlumberger Well Surveying Corp. Computing apparatus. 3,030,021, 4–17–62, Cl. 235—181.
Ferree, Charles M. : *See*—
Bronnenkant, Paul H., and Ferree. 3,024,498.
Bronnenkant, Paul H., and Ferree. 3,052,925.
Ferreira, Paul F. Vertical airfold. 3,025,027, 3–13–62, Cl. 244—91.
Ferreira, Paul F. Aeronautical propeller. 3,053,325, 9–11–62, Cl. 170—159.
Ferrell, Spencer H. : *See*—
Brown, James E. 3,015,166.
Brown, James E. 3,015,353.
Ferrell, Wesley : *See*—
Johnson, Carl A., McColm, and Ferrell. 3,062,044.
Ferrell, Wesley, V. Fournier, and M. W. Olson, to United States Rubber Co. Manufacture of products from plastisols. 3,051,995, 9–4–62, Cl. 18—55.
Ferrell, Willis L. : *See*—
Leake, Henry E., Ferrell, and Gosnell. 3,058,600.
Ferrer, John J., and P. Tomaro, Jr., to Dan Golenpaul Associates. Accessory apparatus for use with phonograph record player. 3,058,748, 10–16–62, Cl. 274—1.
Ferrera, John. Floor supporting structure for expandable trailers. 3,046,047, 7–24–62, Cl. 296—23.
Ferrett, Baptiste, to Hudson Fixtures, Inc. Sliding partition mechanism. 3,052,000, 9–4–62, Cl. 20—19.
Ferretti, Arthur T. Adjustable pitching tee. 3,039,770, 6–19–62, Cl. 273—26.
Ferri, Antonio, to General Applied Science Laboratories, Inc. Propulsion device for vertical takeoff aircraft. 3,018,034, 1–23–62, Cl. 230—116.
Ferri, Antonio, to Curtiss-Wright Corp. Supersonic inlet. 3,041,827, 7–3–62, Cl. 60—35.6.
Ferri, Antonio, to United States of America, Air Force. Serrated cowling rings on bodies of revolution. 3,069,-119, 12–18–62, Cl. 244—130.
Ferri, Gustave, Jr., to Foster Grant Co., Inc. Snap-on hanger clothespin. 3,041,696, 7–3–62, Cl. 24—137.
Ferri, Henry C. : *See*—
Gregson, Alvero C., Ahlberg, and Ferri. 3,048,828.
Ferrigno, Thomas H., to Minerals & Chemicals Philipp Corp. Mineral filled polyurethane foams. 3,015,634, 1–2–62, Cl. 260—2.5.
Ferrigno, Thomas H., to Minerals & Chemicals Philipp Corp. Polyurethane foam containing inorganic pigment coated with polymeric material. 3,024,209, 3–6–62, Cl. 260—2.5.
Ferrigno, Thomas H., to Minerals & Chemicals Philipp Corp. Polyurethane foams filled with organophilic kaolin clay and method for making same. 3,029,209, 4–10–62, Cl. 260—2.5.
Ferrigno, Thomas H., to Minerals & Chemicals Philipp Corp. Kaolin clay coated with salt of polymerizable acid. 3,032,-431, 5–1–62, Cl. 106—308.
Ferris, Arthur D., and G. S. Johnson, to FMC Corp. Process for the preparation of α-amino acids. 3,031,490, 4–24–62, Cl. 260—465.4.
Ferris, De Lacy F., and R. Youngquist, to United States of America, Army. Booster and sustainer thrust devices. 3,034,293, 5–15–62, Cl. 60—35.6.
Ferris, Ernest A., and R. J. Curran, to Borg-Warner Corp. Sprag. 3,019,873, 2–6–62, Cl. 192—45.1.
Ferris, Ernest A., and D. M. Wade, to Borg-Warner Corp. One-way clutch and bearing. 3,049,205, 8–14–62, Cl. 192—45.1.
Ferris, Ernest A., and A. J. Welch, to Borg-Warner Corp. Thermostatically controlled clutch. 3,055,474, 9–25–62, Cl. 192—82.
Ferris, John T., to Dresser Industries, Inc. Grid ruling machine. 3,040,620, 6–26–62, Cl. 88—24.
Ferris, John T., G. J. Sheldon, S. A. Talbot, and G. A. Ulrich, to Bausch & Lomb Inc. Duodenoscope. 3,057,345, 10–9–62, Cl. 128—8.
Ferris, Kenneth D., to Arvin Industries, Inc. Turret punch for pipe bending machine. 3,021,886, 2–20–62, Cl. 153—48.
Ferris, Robert G., to Starline, Inc. Mobile milking house and milk room. 3,019,763, 2–6–62, Cl. 119—14.03.
Ferris, Robert G., to Starline, Inc. Method and apparatus for making track curves and parts thereof. 3,069,770, 12–25–62, Cl. 29—533.
Ferris, Robert G., and R. L. Yuenger, to Starline, Inc. Trolley. 3,035,874, 5–22–62, Cl. 308—18.
Ferris, Seymour W. : *See*—
Stout, William J., Ferris, and Tench. 3,044,917.
Tench, John D., and Ferris. 3,016,312.
Ferro Chemical Co. : *See*—
Canarios, Chrysosthenis M., Weir, and Lerner. 3,030,334.
Freedman, Meyer L., and Elliott. 3,024,222.
Ferro Corp., The : *See*—
Banks, John H. 3,050,039.
Banks, John H. 3,067,719.
Buckley, Robert, and Zaremsky. 3,019,205.
Hanson, Leroy C. 3,024,345.
Hanson, Leroy C. 3,042,784.
Hanson, Leroy C. 3,042,785.
Hanson, Leroy C. 3,043,944.
Hanson, Leroy C. 3,056,012.
Heerdt, Donald E. 3,047,684.
Kelly, William D. 3,015,710.
Kelly, William D. 3,024,833.
Robson, James T. 3,035,323.
Zaremsky, Baruch. 3,067,166.
Ferro Stamping Co. : *See*—
Heiser, Warren R., and Zibbell. 3,054,178.
Iding, Orville R. 3,040,851.
Pickles, Joseph. Re. 25,293.
Pickles, Joseph. 3,020,074.
Pickles, Joseph. 3,022,035.
Pickles, Joseph. 3,048,051.
Pickles, Joseph. 3,049,372.
Zibbell, Elmore L. 3,032,872.
Zibbell, Elmore L. 3,036,806.

Ferrotec, Inc.: *See*—
Rich, Donald J., and Carson. 3,056,097.
Ferry, Frank F., Jr.: *See*—
Ryan, George R., and Ferry. 3,055,220.
Ferry, Richard P.: *See*—
Stimson, Allen G., Eagle, Ferry, and Border. 3,033,093.
Ferry, Wilbur V., R. M. Helley, and O. P. Taylor, to Eitel-McCullough, Inc. Electron tube. 3,070,721, 12–25–62, Cl. 313—107.
Ferstandig, Louis L.: *See*—
Seifert, Wolfgang K., and Ferstandig. 3,035,101.
Ferstandig, Louis L., and P. S. Mageee, to California Research Corp. Synthetic resins. 3,039,996, 6–19–62, Cl. 260—63.
Fertig, Frank L., to International Business Machines Corp. Stacker for intermixed documents of varying size. 3,052,467, 9–4–62, Cl. 271—71.
Fertig, Joseph: *See*—
Goldberg, Albert I., Fertig, and Stanley. 3,059,024.
Fertig, Raymond B., to Union Carbide Corp. Integrator readout device. 3,038,662, 6–12–62, Cl. 235—196.
Fertilizers and Chemicals Ltd.: *See*—
Strauchen, Alfred, and Bresleman. 3,033,669.
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Ferwerda, Ray. Axially and circumferentially movable boom for digging apparatus. 3,069,033, 12–18–62, Cl. 214—141.
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Fesmire, Norman W., and G. W. Schane, to The Budd Co. Cargo containers. 3,061,134, 10–30–62, Cl. 220—1.5.
Fessenden, Peter J., to Springfield Wire & Tinsel Co. Cold terminal resistance wire. 3,045,102, 7–17–62, Cl. 219—46.
Festad, Lars. Hand sleigh for children. 3,024,034, 3–6–62, Cl. 280—16.
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Heley, Edward E., and Fetchin. 3,058,810.
Fether, Donald W. Double walled perforated oil well liner. 3,025,914, 3–20–62, Cl. 166—235.
Fetscher, Charles A.: *See*—
Lipowski, Stanley, and Fetscher. 3,029,212.
Fetscher, Charles A., and S. Lipowski, to Nopco Chemical Co. Method of waterproofing leather. 3,052,571, 9–4–62, Cl. 117—142.
Fetscher, Charles A., and S. Lipowski, to Nopco Chemical Co. Method for tanning leather with aminoplasts and compositions therefor. 3,063,781, 11–13–62, Cl. 8—94.33.
Fett, Willi, to Chemische Werke Witten. Oxidation apparatus. 3,065,061, 11–20–62, Cl. 23—283.
Fetter, Carl E., to General Electric Co. Compressor construction. 3,034,703, 5–15–62, Cl. 230—238.
Fetter, Neil R., to United States of America, Navy. Process for synthesizing reaction products of decaborane and tetrazoles. 3,040,055, 6–19–62, Cl. 260—308.
Fetterly, Lloyd C.: *See*—
Koetitz, Kenneth F., and Fetterly. 3,062,904.
Fetz, Erich, to Amalgamated Growth Industries, Inc. High-temperature testing apparatus. 3,029,635, 4–17–62, Cl. 73—147.
Fetzer, Walter R., to Standard Brands Inc. Process of ammoniating syrup. 3,020,157, 2–6–62, Cl. 99—2.
Fetzer, Walter R., to Standard Brands Inc. Process of ammoniating feed. 3,020,158, 2–6–62, Cl. 99—2.
Feuel, Jacob E., and R. P. Dellner, to Westinghouse Air Brake Co. Rock drill guiding and cuttings disposal. 3,045,769, 7–24–62, Cl. 175—211.
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Feuer, Irving, to Canrad Precision Industries. Device for rupturing glass seals. 3,053,413, 9–11–62, Cl. 222—5.
Feuereisl, Rudolf: *See*—
Dubsky, Borivoj, Straka, Felkel, and Feuereisl. 3,035,569.
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Feuerstein, Erwin, and R. L. Sternberg, to Laboratory For Electronics, Inc. Solid delay lines. 3,020,496, 2–6–62, Cl. 333—30.
Feuge, Reuben O.: *See*—
Ault, Waldo C., and Feuge. 3,050,481.
Feurer Bros., Inc.: *See*—
Feurer, Walther A. 3,064,916.
Feurer, Max: *See*—
Schwyzer, Robert, Iselin, and Feurer. 3,035,041.
Feurer, Walther A., to Feurer Bros., Inc. Core for controlling the winding and unwinding action in a film magazine. 3,064,916, 11–20–62, Cl. 242—68.3.
Feurt, Seldon D.: *See*—
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Fewlass, Maurice W.: *See*—
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Fey, Eduard. Suspended railways. 3,056,359, 10–2–62, Cl. 104—95.
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Danno, Tatsuo. 3,064,602.
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Wilfert, Karl, and Fiala. 3,029,090.
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Fiala, Ernst J. H., to Daimler-Benz Aktiengesellschaft. Independent wheel suspension. 3,021,152, 2–13–62, Cl. 280—124.
Fiala, Ernst J. H., to Daimler-Benz Aktiengesellschaft. Wheel suspension and compensating mechanism for vehicles. 3,024,037, 3–6–62, Cl. 280—104.
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Fiala, Ernst J. H., to Daimler-Benz Aktiengesellschaft. Equalization spring system for vehicles. 3,032,349, 5–1–62, Cl. 280—104.
Fiala, Ernst J. H., to Daimler-Benz Aktiengesellschaft. Vehicle provided with means for controlling its transverse inclination in curves. 3,044,799, 7–17–62, Cl. 280—112.
Fiala, Ernst J. H., to Daimler-Benz Aktiengesellschaft. Balancing mechanism for a lid, more particularly for the lid of the luggage compartment or the motor compartment of a vehicle. 3,047,180, 7–31–62, Cl. 217—60.
Fiala, Ernst J. H., to Daimler-Benz Aktiengesellschaft. Shock absorber control system for a vehicle. 3,051,507, 8–28–62, Cl. 280—124.
Fiala, Ernst J. H., to Daimler-Benz Aktiengesellschaft. Wheel suspension with oscillation damper for motor vehicles. 3,068,022, 12–11–62, Cl. 280—124.
Fiala, Ernst J. H., to Daimler-Benz Aktiengesellschaft. Equalization spring system for vehicles, especially motor vehicles. 3,068,023, 12–11–62, Cl. 280—124.
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Fiala, George T.: *See*—
Moyer, Donald W., and Fiala. 3,059,717.
Fiala, Richard J., to A. E. Staley Mfg. Co. Method for recovering vegetable oil distillates. 3,061,622, 10–30–62, Cl. 260—428.
Fialkoff, Samuel, to Camin Laboratories, Inc. Process for electroforming grooved and channeled bodies. 3,022,230, 2–20–62, Cl. 204—9.
Fialon, John A. Golf ball position marker. 3,041,071, 6–26–62, Cl. 273—32.
Fialovszky, Lajos, to Gamma Optikai Muvek. Co-ordinate theodolite. 3,038,368, 6–12–62, Cl. 88—1.
Fiandt, Ronald M., and E. T. Sherwood, to Globe-Union Inc. Apparatus for indicating chronic storage battery undercharge. 3,061,827, 10–30–62, Cl. 340—249.
Fiat Motor Co. (Fiat S.p.A.): *See*—
Dolza, John. 3,046,960.
Dolza, John. 3,046,961.
Fiat Societa per Azioni: *See*—
Cordiano, Ettore, and Candellero. 3,051,273.
Formia, Antonio. 3,045,655.
Giacosa, Dante, and Baldwin. 3,035,415.
Marchino, Piero. 3,039,919.
Persia, Mario. 3,052,495.
Fiber Controls Corp.: *See*—
Lytton, Kenneth G., and Wise. 3,039,149.
Lytton, Kenneth G., and Wise. 3,039,151.
Fiber Products Research Center, Inc.: *See*—
Huppke, Glen P. 3,070,460.
Fiberfil Corp.: *See*—
Bradt, Rexford. 3,042,570.
Fiber-Foam Marine Products, Inc.: *See*—
Brill, Edward F. 3,035,286.
Fibermold Corp.: *See*—
Friedman, Mark M. 3,044,777.
Fibikar, Robert J., to Gishott Machine Co. Apparatus for measuring component corrections for unbalance. 3,033,041, 5–8–62, Cl. 73—466.
Fibikar, Robert J., and W. I. Senger, to Gishold Machine Co. Automatic multiple station balancing machine. 3,024,661, 3–13–62, Cl. 73—466.
Fibranz, Floyd B., to Motorola, Inc. Bias control circuit. 3,061,784, 10–30–62, Cl. 325—319.
Fibreboard Paper Products Corp.: *See*—
Jennings, Edward C., and Smith. 3,032,523.
Lubersky, Albert R., and Winters. 3,046,937.
Lubersky, Albert R., Winters, and Wong. 3,060,654.
Pellaton, Ernest C., McGimpsey, and Saffores. 3,059,827.
Sabin, John U. 3,048,318.
Wagaman, Merle L. 3,018,941.
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Hjärtsäter, Jacob J. 3,020,943.
Fibre-Metal Products Co., The: *See*—
Bowers, Charles E., Sr., and Maillart. 3,026,523.
Ficat, Raymond P., and J. R. R. Guenot. Damped prosthesis forming a substitute for the coxo-femoral articulation. 3,064,645, 11–20–62, Cl. 128—92.
Fichera, Salvatore. Finger shield and eye guard for sewing machines. 3,019,751, 2–6–62, Cl. 112—261.
Fichet, Edouard: *See*—
Bo, Gilbert, Fichet, Perrot, and Perras. 3,017,401.

Fichtel & Sachs A.G. : *See*—
Binder, Richard. 3,042,168.
Dotter, Paul, and Schwerdhofer. 3,034,613.
Schwerdhöfer, Hans J. 3,057,227.
Steinlein, Gustav, and Trunk. 3,022,776.
Von Bomhard, Josef. 3,017,001.
Wössner, Felex. 3,033,556.

Fichter, Ludwig J., to Oak Mfg. Co. Electric switch. 3,015,706, 1–2–62, Cl. 200—67.

Fichter, Ludwig J., to Oak Mfg. Co. Electric switches. 3,056,001, 9–25–62, Cl. 200—67.

Fichter, Walter C., Jr. Transmit-receive switching circuit using reverse biasing feedback. 3,041,608, 6–26–62, Cl. 343—180.

Fichtmuller, Friedrich, to International Standard Electric Corp. Article sorting arrangement. 3,059,770, 10–23–62, Cl. 209—91.

Ficker, Charles L., to United States Steel Corp. Centrifugal spray device. 3,061,200, 10–30–62, Cl. 239—222.

Ficklin, Raymond W., ½ to Jack M. Willnatt. Pipeline shut-off device. 3,032,069, 5–1–62, Cl. 138—89.

Fiddler, Theodore E. Sheet metal fastener device. 3,038,223, 6–12–62, Cl. 24—73.

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Weigand, Charles C. 3,037,330.

Fidelitone Microwave Inc. : *See*—
Jurcy, Edward J. 3,048,802.

Fidelity Instrument Corp. : *See*—
Richards, Paul, and Wolf. 3,060,367.

Fidelity Union Trust Co. : *See*—
Fleck, Fritz. 3,018,287.
Gutzwiller, Ernst. 3,022,307.
Hofer, Kurt, Hemmi, Peter, and Lutz. 3,033,640.
Stoll, Arthur, Renz, and von Wartburg. 3,060,169.

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Goldenberg, Leo, and Fidelman. 3,036,141.
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Fiden, William H., and R. E. Gottfried, to Thompson Ramo Wooldridge Inc. Teletype word counter. 3,021,390, 2–13–62, Cl. 178—69.

Fidler, Delmer A. : *See*—
Clark, Sheldon L., and Fidler. 3,030,422.
Clark, Sheldon L., and Fidler. 3,045,049.

Fidler, Matthews F. Fowl released and reset door for a hen's nest. 3,030,918, 4–24–62, Cl. 119—50.

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Carlat, Benedict, and Fidler. 3,049,451.

Fiebelkorn, Kenneth L., to R. A. Cooper. Bathroom fixture bracket. 3,026,803, 5–29–62, Cl. 248—223.

Fieberg, Russell F., to Burndy Corp. Separable connector. 3,065,450, 11–20–62, Cl. 339—253.

Fiedler, George H., to Hupp Corp. Heat exchange assemblies for hot air furnace. 3,058,457, 10–16–62, Cl. 126—91.

Fiedler, Horst : *See*—
Neuerburg, Willi, Maehler, and Fiedler. 3,049,171.

Fiedler, Howard C. : *See*—
Walter, John L., and Fiedler. 3,034,935.

Fiedler, Howard C., to General Electric Co. Process for producing magnetic material. 3,069,299, 12–18–62, Cl. 148—11.

Fiedler, William S. Construction of an apparatus for drawing vitreous fibers. 3,068,669, 12–18–62, Cl. 65—8.

Fiehl, Michael, to International Business Machines Corp. Stacker. 3,015,487, 1–2–62, Cl. 271—86.

Fiehl, Michael, to International Business Machines Corp. Device for stacking forms. 3,066,933, 12–4–62, Cl. 271—87.

Fiel, Robert J., to Allied Chemical Corp. Protective urethane coating composition. 3,047,520, 7–31–62, Cl. 260—18.

Field, Albert. Abrading implement. 3,027,692, 4–3–62, Cl. 51—190.

Field, Amy : *See*—
Field, Edward A. 3,040,734.

Field, Crosby, to Flakice Corp. Icemaker. 3,037,366, 6–5–62, Cl. 62—345.

Field, Crosby. Method and machine for making metal wool and similar products. 3,050,825, 8–28–62, Cl. 29—4.5.

Field, Edward A., deceased ; A. Field and City National Bank and Trust Co. of Chicago, executors. Smoke and draft control system for a furnace. 3,040,734, 6–26–62, Cl. 126—307.

Field, Harry : *See*—
Field, Joe and H. 3,035,688.

Field, Joe and H. Garment packing case. 3,035,688, 5–22–62, Cl. 206—7.

Field, John E., and W. G. Schmidt, to Courtaulds Ltd. Manufacture of inorganic thiocyanates. 3,047,363, 7–31–62, Cl. 23—75.

Field, Joseph H. : *See*—
Benson, Homer E., and Field. 3,031,287.

Field, Richard H., to Sperry Rand Corp. Mounting hub. 3,058,886, 10–16–62, Cl. 242—68.3.

Field, Thomas R., to Jenn Air Products Co., Inc. Combined skylight and ventilator. 3,064,548, 11–20–62, Cl. 98—43.

Field, Walter B. : *See*—
Halbedel, Harold S., and Field. 3,018,162.

Fieldcrest Mills, Inc. : *See*—
Law, Marvin A. 3,030,691.
MacIsaac, John T., Jr., and Sumpter. 3,028,884.
MacIsaac, John T. Jr., and Sumpter. 3,042,081.
Moberg, Ivar O. 3,066,704.

Fielden Electronics Ltd. : *See*—
Banasiewicz, Henryk. 3,032,722.
Grove-White, Charles W. 3,022,422.
Worland, Arthur. 3,034,022.

Fielding, George H., to United States of America, Navy. Vapor sampling device. 3,067,619, 12–11–62, Cl. 73—421.5.

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Fields, Clesem O. : *See*—
Merrill, Bennett W., Fields, and Zimmerman. 3,040,806.

Fields, Ellis K. : *See*—
Broadhead, Ronald L., and Fields. 3,035,025.
Jason, Emil F., and Fields. 3,042,732.
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Rolih, Robert J., and Fields. 3,054,821.
Serres, Carl, Jr., and Fields. 3,038,940.
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Fields, Ellis K., to Standard Oil Co. Tertiary alkyl azomethine copolymers. 3,048,615, 8–7–62, Cl. 260—471.

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Fields, Ellis K., and J. M. Sandri, to Standard Oil Co. 1-aryl-2,2-dihalocyclopropanes. 3,046,314, 7–24–62, Cl. 260—650.

Fields, James R., and B. W. Young, to The Prescon Corp. Prestressing apparatus. 3,060,639, 10–30–62, Cl. 50—103.

Fields, Joseph E. : *See*—
Johnson, John H., and Fields. 3,068,061.
Slocombe, Robert J., and Fields. 3,040,006.

Fields, Joseph E., and J. H. Johnson, to Monsanto Chemical Co. Vinyl resin plasticized with an adduct of an alkyl vinyl phosphonate. 3,022,261, 2–20–62, Cl. 260—30.6.

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Bunn, Opal L. 3,051,501.

Fields, Marvin C., and R. D. Rice, to United States Steel Corp. Method of recovering ammonia from aqueous ammonia vapors by a two-stage steam distillation operation. 3,054,726, 9–18–62, Cl. 202—46.

Fields, Melvin : *See*—
Coker, James N., Fields, and Rogers. 3,061,611.

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Fields, Theodore, and B. E. Carlson, to The Colson Corp. Cardine indicator. 3,027,891, 4–3–62, Cl. 128—2.06.

Fields, Thomas L. : *See*—
Wilkinson, Raymond G., and Fields. 3,068,266.
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Fiene, Marilyn L. : *See*—
Meriwether, Lewis S., and Fiene. 3,032,573.
Meriwether, Lewis S., and Fiene. 3,051,694.

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Fierce, William L., and W. J. Sandner, to The Pure Oil Co. Carbon-nitrogen polymers and method of preparing same. 3,020,246, 2–6–62, Cl. 260—2.

Fierce, William L., and W. J. Sandner, to The Pure Oil Co. Process for the production of acetonitrile. 3,028,413, 4–3–62, Cl. 260—465.3.

Fierce, William L., and W. J. Sandner, to The Pure Oil Co. Preparation of benzil by catalyzed reaction of benzene and cyanogen. 3,033,894, 5–8–62, Cl. 260—465.

Fierce, William L., W. J. Sandner, and R. L. Weichman, to The Pure Oil Co. Alkanoyl derivatives of oxamide. 3,037,036, 5–29–62, Cl. 260—404.5.

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Fierce, William L., and W. J. Sandner, to The Pure Oil Co. Preparation of aryl nitriles by catalyzed reaction of aromatic hydrocarbons with hydrogen cyanide. 3,042,705, 7–3–62, Cl. 260—465.

Fierce, William L., and W. J. Sandner, to The Pure Oil Co. Carbon-nitrogen polymers and method of preparing same. 3,056,751, 10–2–62, Cl. 260—1.

Fierce, William L., and W. J. Sandner, to The Pure Oil Co. Preparation of nitriles by catalyzed reaction of alkynes with hydrogen cyanide or cyanogen. 3,056,826, 10–2–62, Cl. 260—465.3.

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Fierce, William L., and W. J. Sladner, to The Pure Oil Co. Process for producing ethylenediamine or derivatives thereof. 3,061,644, 10–30–62, Cl. 260—583.
Fiero, Carl D., to Lapp Insulator Co., Inc. Grading and shielding means for transmission lines. 3,036,149, 5–22–62, Cl. 174—141.
Fierro Espoaja SA : *See*—
Celada, Juan. 3,052,457.
Fieser, Garland E., to The Gamewell Co. Single pen, multi-channel recording or indicating meter. 3,047,837, 7–31–62, Cl. 340—22.
Fiese, John E. Electric dehorning apparatus. 3,052,980, 9–11–62, Cl. 30—228.
Fiess, Norman W. : *See*—
Bann, Robert F., and Fiess. 3,070,418.
Fiesselmann, Hans, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Brüning. Process for preparing thiophenecarboxylic acids and their esters. 3,062,834, 11–6–62, Cl. 260—332.2.
Fieux, Jean, ½ interest to Societe des Forges et Ateliers du Creusot. Universally adjustable support for a vehicle. 3,044,346, 7–17–62, Cl. 88—16.
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Fife, Geraldine H. : *See*—
Fife, Harvey R., and Shiffler. 3,062,747.
Fife, Harvey R., deceased (by G. H. Fife, executrix), and R. W. Shiffler, to Union Carbide Corp. Hydraulic brake fluids. 3,062,747, 11–6–62, Cl. 252—73.
Fife, Irwin L. : *See*—
Powers, Richard W., Jr. 3,024,955.
Fifield, Charles H. Q., D. R. Smith, and J. A. Robinson, to A.E.I. John Thomson Nuclear Energy Co. Ltd. Temperature measuring apparatus for fuel elements of nuclear reactors. 3,021,274, 2–13–62, Cl. 204—193.2.
Figdor, Sanford K. : *See*—
Berg, Rudolph G., Figdor, and Laubach. 3,018,295.
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Figdor, Sanford K., E. R. Pinson, Jr., B. M. Bloom, and G. D. Laubach, to Chas. Pfizer & Co., Inc. 21-methyl steroids and intermediates. 3,045,010, 7–17–62, Cl. 260—239.55.
Figdor, Sanford K., and G. D. Laubach, to Chas. Pfizer & Co., Inc. 9,11-dihalo-21-methyl steroid compounds and process of preparation. 3,064,017, 11–13–62, Cl. 260—397.45.
Figdor, Sanford K., H.-J. E. Hess, and G. D. Laubach, to Chas. Pfizer & Co., Inc. Preparation of 21-methyl-Δ^4-pregnene-17α-ol-3,20-dione and intermediates. 3,069,415, 12–18–62, Cl. 260—239.55.
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Figenshau, James K., and W. H. Hainer, to General Mills, Inc. Collision preventer. 3,053,948, 9–11–62, Cl. 200—61.42.
Figert, Donald M., to The Briggs Filtration Co. Filter. 3,025,253, 3–13–62. Cl. 210—502.
Figge, Carroll C. Heating kettle. 3,046,977, 7–31–62, Cl. 126—38.5.
Fightmaster, Bernard A. Pipe cutters. 3,027,638, 4–3–62, Cl. 30—100.
Fightmaster, Bernard A. Exercising and amusement devices. 3,060,635, 10–30–62, Cl. 46—220.
Figlio, Joseph T., and D. J. Weisel, to Philco Corp. Fabrication of semiconductor devices. 3,039,515, 6–19–62, Cl. 156—345.
Fike, Elmer A., to Roberts Chemicals, Inc. Bisdithiocarbamate-hypochlorite reaction products for agricultural use. 3,065,124, 11–20–62, Cl. 167—17.
Fike, Elmer A., and W. H. Seaton, to Monsanto Chemical Co. Manufacture of trichlorophenols. 3,055,950, 9–25–62, Cl. 260—623.
Fike, Harold L., to International Minerals & Chemical Corp. Recovery of glutamic acid. 3,023,236, 2–27–62, Cl. 260—527.
Fikentscher, Hans, and K. Herrle, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Mixtures of vinyl chloride polymers and copolymers of acrylic acid esters and N-vinyllactams. 3,027,347, 3–27–62, Cl. 260—45.5.
Fikes, Joseph E., to United States of America, Army. Servovane pitch and yaw indicator. 3,016,742, 1–16–62, Cl. 73—147.
Fikse, Tyman H. Vehicle suspension system. 3,045,999, 7–24–62, Cl. 267—22.
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Fikui, Kenichi, and H. Kitano. Process for manufacturing isocyanurate derivatives. 3,037,979, 6–5–62, Cl. 260—248.
Filak, Carl M. : *See*—
Murphy, Alfred M., Filak, and Wagner. 3,019,144.
Filangeri, Anthony E., and M. Clar, to ACF Industries, Inc. Riveting machine or the like. 3,030,832, 4–24–62, Cl. 78—48.
Filbey, Allen H. : *See*—
Coffield, Thomas H., and Filbey. 3,043,775.
Filderman, Irving P., to National Eye Research Foundation. Spectacle lens-contact lens system. 3,027,803, 4–3–62, Cl. 88—54.5.
Filia, George J., to Sargent & Co. Carpenter's plane. 3,028,-892, 4–10–62, Cl. 145—12.
Filion, Camille, and R. Beauregard. Kerf spreader for mechanical chain saws. 3,042,088, 7–3–62, Cl. 143—32.
Filipczak, Peter A., to Electro Tec Corp. Method of making a slip ring assembly. 3,066,386, 12–4–62, Cl. 29—155.5.
Filipowicz, Edwin A. : *See*—
Dahlin, Bernard A., Rademacher, and Filipowicz. 3,045,885.
Filipowicz, Edwin A., to Fort Howard Paper Co. Dispensing roll mounting means. 3,054,546, 9–18–62, Cl. 226—194.
Filipowsky, Richard F. J., to Westinghouse Electric Corp. Detector for recognizing either of two signals, each consisting of individual cyclic frequency deviation of a carrier. 3,026,482, 3–20–62. Cl. 328—132.
Filipowsky, Richard F. J., to Westinghouse Electric Corp. Detector for symbolic waveforms. 3,054,956, 9–18–62, Cl. 325—329.
Filkins, Clarence L. : *See*—
Sebastian, James R., and Filkins. 3,026,817.
Fillery, Gordon T. Floor-maintenance machines. 3,064,292, 11–20–62, Cl. 15—50.
Filliung, Jacques J., to Sloan Valve Co. Mixing valves. 3,034,138, 5–15–62, Cl. 4—148.
Filliung, Jacques J., to Sloan Valve Co. Automatic flushing systems. 3,034,151, 5–15–62, Cl. 4—249.
Filliung, Jacques J., to Sloan Valve Co. Automatic flushing systems. 3,066,314, 12–4–62, Cl. 4—101.
Fillmore, Robert L. : *See*—
Rudolf, John J., Jr., and Fillmore. 3,039,035.
Fillweber, Marcellus L., to Dominion Electric Corp. Electric mixer. 3,064,951, 11–20–62, Cl. 259—131.
Filmer, Frank L., and M. J. Kirby, to Reed Cartons Ltd. Boxes, cartons and like containers. 3,028,067, 4–3–62, Cl. 229—44.
Filmer, James C. : *See*—
Walter, Richard L., and Filmer. 3,069,590.
Filotecnica Salmoiraghi S.p.A. : *See*—
Bruscaglioni, Rafaello. 3,022,099.
Bruscaglioni, Raffaello. 3,031,796.
Filper Corp. : *See*—
Anderson, Earl R. 3,064,794.
Filsinger, Erich : *See*—
Kaden, Willy, and Filsinger. 3,025,752.
Filsinger, John F. : *See*—
Braun, Philip N., and Filsinger. 3,035,951.
Filstrup, Edward C., to Olin Mathieson Chemical Corp. Blasting devices. 3,016,015, 1–9–62, Cl. 102—25.
Filstrup, Edward C., to Olin Mathieson Chemical Corp. Safety blasting device. 3,022,730, 2–27–62, Cl. 102—25.
Filstrup, Edward C., to Olin Mathieson Chemical Corp. Gas pressure devices. 3,041,969, 7–3–62, Cl. 102—25.
Filstrup, Edward C., to Olin Mathieson Chemical Corp. Blasting devices. 3,070,012, 12–25–62, Cl. 102—25.
Filstrup, Edward C., Jr., to Olin Mathieson Chemical Corp. Sheep protector for gas operated blasting cartridge. 3,018,731, 1–30–62, Cl. 102—25.
Filtex Corp., The : *See*—
Stevens, Clarence E. 3,036,814.
Stevens, Clarence E. 3,069,186.
Filtron Co., Inc., The : *See*—
Milton, Leonard, and Lory. 3,043,937.
Finan, James A., to Allied Chemical Corp. Built-up roof. 3,053,716, 9–11–62, Cl. 154—51.
Finberg, Joseph, to ERB-Tobacco Products Co. Inc. Tobacco-like composition. 3,067,068, 12–4–62, Cl. 131—2.
Finch, Charles A., to True Temper Corp. Rail anchors. 3,021,076, 2–13–62, Cl. 238—321.
Finch, Donald I., E. Korostoff, and D. D. Pollock, to Leeds and Northrup Co. Copper-nickel thermocouple elements with controlled voltage temperature characteristics. 3,017,269, 1–16–62, Cl. 75—159.
Finch, Gaylord K., to Eastman Kodak Co. Process of manufacturing 2,2-dimethyl-1,3-propanediol mono(hydroxypivalate). 3,057,911, 10–9–62, Cl. 260—484.
Finch, Horace T., to The Birtcher Corp. Record tape loading and drive mechanism. 3,051,408, 8–28–62, Cl. 242—75.4.
Finch, Lionel N., to Monsanto Chemical Co. Method for providing films of thermoplastic material on the exterior faces of cathode ray tubes. 3,026,232, 3–20–62, Cl. 154—41.
Finch, Robert E. Remote control for angle setting indicator. 3,050,709, 8–21–62. Cl. 340—26.
Finch, Thomas E. : *See*—
Wheeler, Floyd C., and Finch. 3,061,704.
Finch, Walter G. : *See*—
McLean, William B. 3,045,428.
Prescott, Rochelle. 3,045,531.
Fincham, Christopher J. B., to National Research Corp. Acid treatment of tantalum to remove surface irregularities. 3,024,095, 3–6–62, Cl. 41—42.
Findlay, Donald E., to Dow Corning Corp. Method of producing leather with improved water resistance and article resulting therefrom. 3,038,818, 6–12–62, Cl. 117—76.

Findlay, Lloyd E.: *See*—
Millar, John F., and Findlay. 3,024,257.
Findlay, Robert A., to Phillips Petroleum Co. Desalting sea water. 3,017,752, 1–23–62, Cl. 62—58.
Findlay, Robert A., to Phillips Petroleum Co. Continuous cloud point detector. 3,031,880, 5–1–62, Cl. 73—17.
Findlay, Robert A., to Phillips Petroleum Co. Reaction process for polymerization. 3,035,040, 5–15–62, Cl. 260—94.9.
Findleton, Ronald J., to Easybow Engineering & Research Co. Joist hanger. 3,036,347, 5–29–62, Cl. 20—94.
Findley, Donald E.: *See*—
Slater, John M., Findley, and Leicester. 3,029,646.
Findley, Howard J. Vibrating toolholders. 3,056,320, 10–2–62. Cl. 82—36.
Findley, Thomas W.: *See*—
Rhodes, Philip H., and Findley. 3,047,415.
Findley, Thomas W., to Swift & Co. Epoxy ether polyamides. 3,042,692, 7–3–62, Cl. 260—404.5.
Findley, Thomas W., B. H. Robin, and J. E. Farbak, to Swift & Co. Acid pickling bath containing inhibitor and method of treating ferrous metals. 3,033,796, 5–8–62, Cl. 252—148.
Findley, Thomas W., J. L. Ohlson, and F. E. Kuester, to Swift & Co. Treatment of epoxy fatty compositions. 3,035,069, 5–15–62, Cl. 260—398.
Findlow, Eric, to Ernest Scragg & Sons Ltd. Apparatus for false twisting yarn. 3,021,663, 2–20–62, Cl. 57—77.40.
Fine, C Robert. Apparatus for production of sound recordings. 3,029,316, 4–10–62, Cl. 179—100.2.
Fine, Charles C. Truss. 3,021,838, 2–20–62, Cl. 128—96.
Fine, Roy S., and S. V. Perry, to Radio Corp. of America. Dual feedback circuit for stereophonic audio-frequency signal amplifier systems. 3,026,373, 3–20–62, Cl. 179—1.
Fine, Roy S., and S. V. Perry, to Radio Corp. of America. Stereophonic audio-frequency signal amplifier systems. 3,026,378, 3–20–62, Cl. 179—100.1.
Fine, Samuel, and C. F. Hendee, to North American Philips Co., Inc. Automatic pulse height analysis. 3,034,055, 5–8–62, Cl. 324—102.
Fineblum, Solomon S., to North American Aviation, Inc. High-performance aircraft. 3,015,461, 1–2–62, Cl. 244—117.
Fine Brands Corp.: *See*—
Ferguson, Edgar A., Jr. 3,044,883.
Fine Chemicals of Canada Ltd.: *See*—
Paabo, George. 3,042,720.
Finelli, Anthony F.: *See*—
Gates, George H., and Finelli. 3,022,257.
Snyder, Carl E,. Seeger, Fauser, Finelli, and Lovell. 3,043,807.
Fine Organics, Inc.: *See*—
Imoto, Minoru, and Huang. 3,035,023.
Imoto, Minoru, and Huang. 3,053,793.
Finer Products Ltd.: *See*—
Armson, Harold J. 3,017,201.
Fines, Samuel R. Manually propelled water shoes. 3,027,576, 4–3–62, Cl. 9—310.
Finger, Alexander E., and J. Goldman. Alarm system for shopping carts. 3,051,936, 8–28–62, Cl. 340—280.
Finger, Earle W. Cradle reciprocating apparatus. 3,022,520, 2–27–62, Cl. 5—109.
Finger, Charles E., and J. Schoonderwoerd, to Hickory Spinners, Inc. Package conveyor. 3,064,791, 11–20–62, Cl. 198—19.
Finger, Fay: *See*—
Blanchard, Allison M., and Finger. 3,060,603.
Fingerut, Boris M., to Portland Wire & Iron Works. Flexible mounting means for tractor guard canopy. 3,036,858, 5–29–62 Cl. 296—102.
Finigan, Charles M.: *See* —
Macht, John T., and Finigan. 3,062,907.
Finizza, Joseph. Bracket for sawhorse. 3,064,756, 11–20–62, Cl. 182—181.
Fink, Al. Clip. 3,057,366, 10–9–62, Cl. 132—48.
Fink, Albert O., to Union Carbide Corp. Carbonyl metal plated product. 3,055,087, 9–25–62, Cl. 29—183.5.
Fink, Armin. Shuttle with a bobbin clamping device. 3,048,197, 8–7–62, Cl. 139—207.
Fink, Carl M.: *See*—
Felhofer, Robert W., and Fink. 3,043,264.
Fink, Charles, to Litton Industries of Maryland. High frequency coupling. 3,032,726, 5–1–62, Cl. 333—98.
Fink, Donald E., and J. T. McArdle, to General Electric Co. Water-using appliance with water-conditioner dispenser. 3,029,826, 4–17–62, Cl. 134—57.
Fink, Donald G., to Philco Corp. Apparatus for determining the polarities of stereophonic channel connections at any selected point. 3,067,297, 12–4–62, Cl. 179—175.
Fink, Elijah C. Inflatable tent structure. 3,055,379, 9–25–62, Cl. 135—1.
Fink, Ernest O., to Wheeling Steel Corp. Studding. 3,027,983, 4–3–62, Cl. 189—34.
Fink, Frederick M.: *See*—
Brunzie, Robert H., and Fink. 3,022,548.
Fink, Jean, to Gibbs Mfg. & Research Corp. Two-phase clock motor. 3,056,053, 9–25–62, Cl. 310—41.
Fink, Marvin J., and C. J. Birk, to General Motors Corp. Selective paging receiver. 3,017,631, 1–16–62, Cl. 343—225.
Fink, Miller H., to A. B. Chance Co. Method and apparatus for curing thermoset resins. 3,041,660, 7–3–62, Cl. 18—6.
Fink, Richard R., to D. J. Campbell Co., Inc. Apparatus for installing bushings. 3,044,157, 7–17–62, Cl. 29—235.
Fink, Robert W.: *See*—
Whitlow, Eugene P., and Fink. 3,046,756.
Fink, Robert W., to Whirlpool Corp. Circulation apparatus for refrigeration system. 3,055,194, 9–25–62, Cl. 62—483.
Fink, William C.: *See*—
Anderson, Lester F., and Fink. 3,067,601.
Fink, William C., and H. S. Painter, to Sylvania Electric Products Inc. Photoflash lamp. 3,063,277, 11–13–62, Cl. 67—31.
Fink, Wilmer G., to Viola Industries, Inc. Freezer cabinet locker unit. 3,052,508, 9–4–62, Cl. 312—214.
Finkbeiner, Herman L.: *See*—
Stiles, Martin, and Finkbeiner. 3,055,936.
Finke, Arno, and S. Kosteritzky. Method and apparatus for producing and applying bag handles. 3,034,409, 5–15–62, Cl. 93—S.
Finkel, Abram R. Shower door for bathtub. 3,025,574, 3–20–62, Cl. 20—16.
Finkel, Abram R. Shower door for bathtub. 3,025,937, 3–20–62, Cl. 189—46.
Finkel, Leonard: *See*—
Berinson, Neil, and Finkel. 3,048,786.
Finkel Outdoor Products, Inc.: *See*—
Militano, Vincent. 3,054,643.
Finkelstein, Don B., to Del Mar Engineering Laboratories. Pyrotechnic flare. 3,051,085, 8–28–62, Cl. 102—37.8.
Finkelstein, Jacob: *See*—
Gardner, Thomas S., Lee, Finkelstein, and Wenis. 3,042,721.
Finkelstein, Manuel: *See*—
Ross, Sidney D., Petersen, and Finkelstein. 3,052,829.
Finkelstein, Nisson A., to Bausch & Lomb Inc. Projection system corrected for marginal distortion. 3,045,542, 7–24–62, Cl. 88—24.
Finkelstein, Paul: *See*—
Brunner, Matthew J., Finkelstein, and Hibnick. 3,019,162.
Finkener, Friedrich, J. Krug, H. Loges, and B. Rodewald, to Th. Goldschmidt A.-G. Process of detinning lacquered tin scrap derived from tin sheet metal. 3,022,161, 2–20–62, Cl. 75—98.
Finkenzeller, Howard B. Closure neck for dispensing containers. 3,051,351, 8–28–62, Cl. 220—67.
Finkes, David C. Free rotating main propulsion shaft packing area resurfacing machine. 3,044,224, 7–17–62, Cl. 51—248.
Finkle, Bernard. Pillow construction. 3,064,279, 11–20–62, Cl. 5—337.
Finkle, Lewis C., to Wedgelock Corp. of California. Tool attachment having an adjustable torque release. 3,024,682, 3–13–62. Cl. 81—52.4.
Finker, Ronald A., N. Pomerance, D. A. Goldman, and M. J. Zole, to General Precision, Inc. Display system. 3,056,111, 9–25–62, Cl. 340—172.5.
Finlay, Alexander: *See*—
Burgener, Robert C., and Finlay. 3,042,881.
Finlay, Alexander, and D. R. Rice, to Ranco Inc. Control apparatus. 3,038,050, 6–5–62. Cl. 200—122.
Finlay, Alexander, and D. R. Rice, to Ranco Inc. Control apparatus. 3,062,942, 11–6–62, Cl. 219—20.
Finlay, Alexander, Jr.: *See*—
Hecox, William, and Finlay. 3,060,387.
Finlay, Leak H. Lacquer dispensing bottle. 3,060,942, 10–30–62, Cl. 132—73.5.
Finlay, Walter L., to Rem-Cru Titanium, Inc. Titanium coated article. 3,045,333, 7–24–62, Cl. 29—194.
Finlayson, Donald, and A. M. Goddard, to British Celanese Ltd. Process for increasing the crystallinity and safe ironing temperature of cellulose triacetate textiles with aromatic chemical swelling agents. 3,025,128, 3–13–62, Cl. 8—131.
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Finlayson, Thomas R., to Gleason Reel Corp. Shelter frame. 3,018,858, 1–30–62, Cl. 189—2.
Finlayson, Thomas R., to Gleason Reel Corp. Thermal barrier. 3,042,050, 7–3–62. Cl. 135—1.
Finlayson, Thomas R., to Gleason Reel Corp. Shelter framework. 3,059,658, 10–23–62. Cl. 135—4.
Finley, Edwin D., and R. T. Pennoyer, to General Electric Co. Article handling apparatus. 3,067,911, 12–11–62, Cl. 221—81.
Finley, James E., to Texas Instruments Inc. Galvanometer. 3,031,620, 4–24–62, Cl. 324—131.
Finlon, Francis P.: *See*—
Lehmann, Emil W., and Finlon. 3,041,547.
Lehmann, Emil W., and Finlon. 3,065,403.
Finn, Donald J.: *See*—
Finn, Kenneth F. and D. J. 3,023,653.
Finn, Kenneth F. and D. J. 3,024,683.
Finn, George B., Jr., and R. Parsons, to Sarkes Tarzian, Inc. Semiconductor devices and method of manufacturing them. 3,051,878, 8–28–62, Cl. 317—240.
Finn, John J.: *See*—
Hattori, Kiyoshi, Finn, and Klein. 3,038,943.

Finn, Kenneth F. and D. J. Worm positioning and locking lever for a slidable side jaw wrench. 3,023,653, 3–6–62, Cl. 81—165.
Finn, Kenneth F. and D. J. Worm-pressing clamping means for slidable side jaw wrench. 3,024,683, 3–13–62, Cl. 81—165.
Finn, Raymond J. Life saving equipment. 3,016,549 1–16–62, Cl. 9—14.
Finnamore, Alan J., to National Research Development Corp. Stable operating transistor amplifier. 3,029,394, 4–10–62, Cl. 330—3.
Finnegan, Richard A.: *See*—
Yang, Nien-Chu C., and Finnegan. 3,062,841.
Finnegan, Walter D.: *See*—
Eichhorn, Edgar G., and Finnegan. 3,066,405.
Finnegan, William B.: *See*—
Philbin, James P., and Finnegan. 3,045,820.
Finnegan, William G.: *See*—
Burkardt, Lohr A., Finnegan, and Smith. 3,046,168.
Finnegan, William G., R. L. Smith, and A. T. Wiebke, to United States of America, Navy. Binder for explosive compositions. 3,055,780, 9–25–62, Cl. 149—19.
Finnegan, William G., R. A. Henry, and S. Skolnik, to United States of America, Navy. Substituted tetrazoles. 3,055,-911, 9–25–62, Cl. 260—308.
Finnerman, George D.: *See*—
McBride, Richard F. 3,019,034.
Finnerty, Robert P. Phonograph record holder. 3,027,005, 3–27–62, Cl. 206—62.
Finney, Rex G.: *See*—
King, James L., and Finney. 3,016,216.
Finnicum, Roy A. Fisherman's float with automatic depth control. 3,057,107, 10–9–62, Cl. 43—43.11.
Fino, Alexander F., to Pittsburgh-Des Moines Steel Co. Method for making a liquid storage floating cover. 3,036,-342, 5–29–62, Cl. 18—59.
Fino, Alexander F., and J. M. Swick, to Pittsburgh-Des Moines Steel Co. Magnetic seal for floating roof. 3,033,413, 5–8–62, Cl. 220—26.
Fino, John B., and F. E. Monge, to Schenley Industries, Inc. Sleeve and seal construction. 3,062,556, 11–6–62, Cl. 277—115.
Finsberg, Arne, to Lever Brothers Co. Soap. 3,047,600, 7–31–62, Cl. 260—419.
Finsilver, Devora: *See*—
Pollack, Shirley, and Finsilver. 3,019,144.
Finsterwalder, Carl J.: *See*—
Simmons, Milton E., and Finsterwalder. 3,049,935.
Simmons, Milton E., Finsterwalder, and Terkoski. 3,021,444.
Simmons, Milton E., Finsterwalder, and Terkoski. 3,045,-137.
Fintube Co.: *See*—
Kaase, Robert W., and Sessions. 3,018,090.
Finucane, John L. Removable cover for basket chair. 3,065,-991, 11–27–62, Cl. 297—229.
Finucane, Thomas P., W. A. Mitchell, and L. Z. Raymond, to General Foods Corp. Angel food cake mix. Re. 25,231, 8–21–62, Cl. 99—94.
Finvik, Hjalmar. Electronic starter plug for diesel engines. 3,044,458, 7–17–62, Cl. 123—145.
Fior, Aldo, to Montecatini Societa Generale per l'Industria Mineraria e Chimiche. Polypropylene fishing articles. 3,015,-150, 1–2–62. Cl. 28—81.
Fioravanti, Jean. Conveyor system. 3,045,807, 7–24–62, Cl. 198—153.
Fiore, Leonardo: *See*—
Natta, Giulio, Porri, and Fiore. 3,016,371.
Fiori, Anthony J., to REF Mfg. Corp. Method of making beverages and a canister apparatus therefor. 3,030,874, 4–24–62, Cl. 99—287.
Firco, Inc.: *See*—
Harrah, Robert E. 3,040,712.
Fire Boss, Inc.: *See*—
Slough, Kenneth C. 3,040,816.
Fireless Gas Heater Corp.: *See*—
Wagner, Hans. 3,057,400.
Firestine, Arthur G., C. F. Mooney, and T. J. Zak, to Bausch & Lomb Inc. Method of grinding and polishing optical glass. 3,030,746, 4–24–62, Cl. 51—284.
Firestine, John C.: *See*—
Cohen, Abraham B., and Firestine. 3,070,442.
Firestone Tire & Rubber Co., The: *See*—
Albert, Harry E. 3,019,211.
Ambelang, Joseph C. 3,019,262.
Bank, Thomas A. 3,038,717.
Best, Chris E. 3,038,885.
Bosonworth, George P. 3,038,524.
Brey, Wilhelm. 3,019,016.
Brey, Wilhelm. 3,038,526.
Brey, Wilhelm. 3,038,827.
Brock, Marlya J. 3,057,832.
Brown, Roy W., and Hollis. 3,038,716.
Bruber, Norman T. 3,019,149.
Crane, Grant. 3,019,207.
Deist, Herbert H. 3,038,343.
Dubetz, Alex, and Van Arnam. 3,057,389.
Farhat, Kelly, and Webb. 3,057,843.
Forman, Lawrence E. 3,038,883.
Hanson, Elmo E. 3,057,396.
Hausch, Walter R. 3,019,148.
Hayes, Robert A. 3,038,886.
Firestone Tire & Rubber Co., The: *See*—Continued
Hershey, Melvin P. 3,038,518.
Howard, Frank A. 3,060,990.
Jefferys, Alexander G. 3,018,518.
Kibler, Richard W. 3,024,217.
Kibler, Richard W. 3,057,819.
Kibler, Richard W. 3,057,934.
Knox, Harold W. 3,057,011.
Koch, Robert C., and Rowe. 3,038,515.
Koch, Robert C., and Rowe. 3,038,829.
Koch, Robert C., and Whipple. 3,018,813.
Kolbe, Henry H. 3,057,388.
McGough, D'Arle L. 3,057,768.
Noall, John, and Putt. 3,019,153.
Noall, Michael W., Jr. 3,018,822.
Reid, Robert J., and Best. 3,019,208.
Reid, Robert J., and Conard. 3,019,209.
Sherrill, Price E., and Moss. 3,018,605.
Smith, George E. P., Jr. 3,020,287.
Smith, George E. P., Jr. 3,038,888.
Spencer, Corwin N., and Myers. 3,041,674.
Stevens, Henry P. 3,024,218.
Stevens, Horace D. 3,018,820.
Timmons, William D., Jr., and Robertson. 3,038,891.
Waters, Herbert H., and Dieckmann. 3,039,839.
Willis, James M. 3,018,821.
Firewel Co., Inc., The: *See*—
Cummins, Richard D. 3,030,069.
Firing, Osborne. Narrow fabric loom. 3,066,703, 12–4–62, Cl. 139—124.
Firing, Osborne, to Scovill Mfg. Co. Three-piece spring locking slider. 3,068,542, 12–18–62, Cl. 24—205.14.
Firing, Osborne, to Scoville Mfg. Co. Apparatus for manufacturing zipper fastener stringers. 3,068,549, 12–18–62, Cl. 29—34.
Firing, Osborne. Zipper tape. 3,068,908, 12–18–62, Cl. 139—384.
Firing, Peter C., to National Lead Co. Apparatus for pulverizing material. 3,058,673, 10–16–62, Cl. 241—39.
Firmenich & Co., Successeurs de la Societe Anonyme M. Naef & Cie: *See*—
Stoll, Max. 3,029,255.
Firmin, Jervois C.: *See*—
Callick, Eric B. B., and Firmin. 3,046,440.
Firmiuac, Ralph H., to Halliburton Co. Power supply for ionization devices in well bores. 3,052,798, 9–4–62, Cl. 250—83.6.
Firnhaber, Miles S., to Sealtite Insulation Mfg. Corp. Rotors for use in apparatus for manufacturing mineral wool. 3,048,885, 8–14–62, Cl. 18—2.6.
Firnhaber, Miles S. Apparatus for manufacturing mineral wool fibers and the like. 3,054,140, 9–18–62, Cl. 18—2.6.
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First Container Corp.: *See*—
Bean, Charles J. 3,047,314.
First National Bank, The: *See*—
Hanson, Raymond A. 3,049,783.
First National Bank of Pullman, The: *See*—
Hanson, Raymond A. 3,032,852.
First, Vincent E., L. D. Potts, P. K. Rice, and E. F. Yendall, to Union Carbide Corp. Process and apparatus for separating gas mixtures. 3,059,439, 10–23–62, Cl. 62—12.
Firth, Bernard G., to Tung-Sol Electric Inc. Cold cathode vacuum tube and circuit. 3,023,364, 2–27–62, Cl. 328—252.
Firth, Bernard G., to Tung-Sol Electric Inc. Keep alive circuit for cold cathode vacuum tubes. 3,023,365, 2–27–62, Cl. 328—267.
Firth Carpet Co., Inc., The: *See*—
Hubbard, John L. 3,019,625.
Hubbard, John L. 3,043,124.
Matthews, Russell R., and Hubbard. 3,027,919
Firth, David, to Dodge Mfg. Corp. Coupling. 3,020,737, 2–13–62, Cl. 64—11.
Firth, David, to Dodge Mfg. Corp. Flexible coupling. 3,068,-665, 12–18–62, Cl. 64—11.
Firth, David, and J. Chung, to Dodge Mfg. Corp. Variable pitch sheave arrangements. 3,027,773, 4–3–62, Cl. 74—230.17.
Firth, Donald, and J. D. Hamilton. Piston valve for fluid pressure pumps or motors. 3,065,953, 11–27–62, Cl. 251—221.
Firth Sterling, Inc.: *See*—
Hopkins, Robert K. 3,067,473.
Fisch, Jacob, W. J. McCormack, and H. E. Smyser, to Allis-Chalmers Mfg. Co. Pressure regulator system for hydraulic turbines. 3,051,186, 8–28–62, Cl. 137—25.
Fisch, Kurt R.: *See*—
Verderame, Frank D., and Fisch. 3,028,747.
Fisch, Willy: *See*—
Bitzer, Hans, Fisch, and Porret. 3,028,385.
Hiltpold, Robert, Fisch, and Speiser. 3,055,433.
Fischbach, C. B.: *See*—
Eskridge, Harold E. 3,058,627.
Fischbach, Manfred: *See*—
Schwartmann, Karl, and Fischbach. 3,066,611.
Fischbach and Moore, Inc.: *See*—
Burley, Billy. 3,046,743.
Fischbein, Dave. Lock attachment for a spring type counterbalancer. 3,020,001, 2–6–62, Cl. 242—107.2.

Fischbein, Dave. Switch control mechanism and thread cutter for electric sewing machines. 3,053,205, 9–11–62, Cl. 112—11.

Fischel, Eduard M., to General Precision, Inc. Accelerometer. 3,046,794, 7–31–62, Cl. 73—517.

Fischel, Eduard M., to General Precision Inc. Rate gyroscope. 3,058,357, 10–16–62, Cl. 74—5.4.

Fischer, Albrecht G., to General Electric Co. Preparation of phosphor crystals. 3,033,659, 5–8–62, Cl. 23—295.

Fischer, Alfred N., to Sargent & Greenleaf, Inc. Resonant reed relay. 3,029,326, 4–10–62, Cl. 200—90.

Fischer, Arno. Rotary positive displacement fluid pressure device. 3,053,193, 9–11–62, Cl. 103—143.

Fischer, Arnold, and H.-J. Lenz, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Brünning. Process for stabilizing polyolefins. 3,029,224, 4–10–62, Cl. 260—45.75.

Fischer, Carl W. Vacuum cleaner. 3,065,488, 11–27–62, Cl. 15—328.

Fischer, Charles F., and A. E. Austin, Jr., to Colgate-Palmolive Co. Casting apparatus. 3,016,574, 1–16–62, Cl. 18—30.

Fischer, Christoph L.: *See*—
Klein, George J., Fischer, and Turner. 3,040,748.
Smialowski, Antoni J., Vogelfanger, Fischer, and Connock. 3,038,209.
Smialowski, Antoni J., Vogelfanger, Fischer, and Connock. 3,057,355.

Fischer, Edgar: *See*—
Hermann, Hans D., and Fischer. 3,046,249.

Fischer, Ernst O., to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Actuating fluid for use in vacuum pumps. 3,069,069, 12–18–62, Cl. 230—101.

Fischer, Edward, to Hoover Ball & Bearing Co. Movable platen assembly for molding machines. 3,063,092, 11–13–62, Cl. 18—5.

Fischer, Elemer. Pincers for stripping the ends of electric conductors covered with insulating material. 3,069,943, 12–25–62, Cl. 81—9.5.

Fischer, Ernst O., and C. Palm, to Union Carbide Corp. Cyclopentadienyl nickel carbonyl compounds and process therefor. 3,031,572, 5–1–62, Cl. 260—439.

Fischer, Eugene E. Expandable trailer house. 3,032,369, 5–1–62, Cl. 296—23.

Fischer, Franz G., J. Roch, and A. Kottler, to Dr. Karl Thomae, G.m.b.H. Substituted pyrimido-[5,4-d]-pyrimidines. 3,031,450, 4–24–62, Cl. 260—247.5.

Fischer, Franz L., to Bulova Research and Development Laboratories, Inc. Acceleration-compensated altimeter. 3,068,-699, 12–18–62, Cl. 73—386.

Fischer, Georg: *See*—
Wehle, Heinrich, Lange, Fischer, and Spreng. 3,051,406.

Fischer, Georg, to Telefunken G.m.b.H. Differential bidirectional drag. 3,052,421, 9–4–62, Cl. 242—55.12.

Fischer, Georg, Aktiengesellschaft: *See*—
Hübscher, Rudolf F. 3,043,633.
Von Zelewsky, Ottomar. 3,016,245.
Von Zelewsky, Ottomar. 3,046,822.

Fischer, George W., to General Electric Co. Porous metallic material and method. 3,052,967, 9–11–62, Cl. 29—182.

Fischer, Gunter. Set of wheels for vehicles running on two rails. 3,050,016, 8–21–62, Cl. 104—245.

Fischer, Hans, to General Motors Corp. Drain cocks. 3,031,-166, 4–24–62, Cl. 251—320.

Fischer, Hans, to Albiswerk Zurich A.G. Direct-voltage step-up transformer device of the static type for low-power output. 3,035,220, 5–15–62, Cl. 321—2.

Fischer, Hardin Y., to A. F. Dormeyer. Solenoid construction. 3,021,456, 2–13–62, Cl. 317—191.

Fischer, Harold F.: *See*—
Katz, Peter, Koch, and Fischer. 3,033,631.
Krakauer, Merrill, Katz, and Fischer. 3,055,544.

Fischer, Harry C., to Thermo-Craft Corp. Thermoelectric generator and method of making same. 3,019,278, 1–30–62, Cl. 136—4.

Fischer, Harry C. Impressed current cathodic protection system. 3,056,738, 10–2–62, Cl. 204—196.

Fischer, Harry C., to Thermo-Craft Electric Corp. Electric heating element for water tanks and method. 3,056,879, 10–2–62, Cl. 219—38.

Fischer, Henry: *See*—
Berridge, Leslie J., and Fischer. 3,032,371.

Fischer, Henry D., to Fischer Industries, Inc. Method of and apparatus for chain lubrication. 3,053,371, 9–11–62, Cl. 198—1.

Fischer, Heinz. Ultra short light pulse generation. 3,022,-444, 2–20–62, Cl. 315—61.

Fischer, Heinz. High temperature production. 3,039,018, 6–12–62, Cl. 315—36.

Fischer, Howard R.: *See*—
D'Haem, Marcel P., and Fischer. 3,041,614.

Fischer, Howard R., and J. A. Roberts, to Chicago Pneumatic Tool Co. Portable, air-operated, magazine-fed nailing machine. 3,023,413, 3–6–62, Cl. 1—44.4.

Fischer, Howard R., and W. F. Kearney, to Chicago Pneumatic Tool Co. Nail driving attachment for pneumatic tool. 3,042,004, 7–3–62, Cl. 121—32.

Fischer Industries, Inc.: *See*—
Fischer, Henry D. 3,053,371.

Fischer, Jean. Arrangement in wall and ceiling panellings. 3,056,476, 10–2–62, Cl. 189—86.

Fischer, Josef: *See*—
Bauder, Josef, Fischer, and Aidn. 3,043,500.
Geyer, Hans, and Fischer. 3,019,375.

Fischer, Kenneth C., to The Dow Chemical Co. Preform injection foam molder. 3,029,472, 4–17–62, Cl. 18—30.

Fischer, Kurt, and K. Vester, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for preparing aldehydes by isomerization of alpha-olefin oxides. 3,067,256, 12–4–62, Cl. 260—601.

Fischer, Laurin G., to International Telephone and Telegraph Corp. Frequency analysis and measurement system. 3,060,257, 11–27–62, Cl. 324—79.

Fischer, Martin N. Portable spot welding tool. 3,050,618, 8–21–62, Cl. 219—90.

Fischer, Oskar, and R. Sommer, to Voigtlander A.G. Photographic camera. 3,068,773, 12–18–62, Cl. 95—64.

Fischer, Paul E., W. A. Heatley, Jr., and M. Sorkin, to Champlain Co., Inc. Window applying machine for containers. 3,048,088, 8–7–62, Cl. 93—36.

Fischer, Paul M., to Cutler-Hammer, Inc. Alternating current motor control systems. 3,017,554, 1–16–62, Cl. 318—239.

Fischer, Paul W., to Union Oil Co. of California. Drilling fluids. 3,017,349, 1–16–62, Cl. 252—8.5.

Fischer, Paul W., to Union Oil Co. of California. Emulsion-base drilling fluid. 3,017,350, 1–16–62, Cl. 252—8.5.

Fischer, Paul M., and V. H. Simson, to Cutler-Hammer, Inc. Interlocked electric controllers. 3,036,683, 5–29–62, Cl. 192—142.

Fischer, Peter, and J. Pfirschke, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of N-alkyl-o-aryl urethanes. 3,057,910, 10–9–62, Cl. 260—479.

Fischer & Porter Co.: *See*—
Arrison, Frank C. 3,065,981.
Boonshaft, Julius C., and Haigler. 3,022,800.
Brewer, Nathaniel, and Ollivier. 3,056,280.
Busillo, Eugene P. 3,060,738.
Head, Victor P. 3,024,654.
Head, Victor P. 3,027,756.
Koblenz, Avrom M., Krishnaswamy, and Thomas. 3,039,-306.
Stenberg, Nyyrikki K. 3,040,774.
Stenberg, Nyyrikki K. 3,051,195.
Stenberg, Nyyrikki K. 3,060,739.
Sterberg, Nyyrikki K. 3,066,530.

Fischer, Rainer: *See*—
Fischer, Stefan, and R. 3,048,889.

Fischer, Raymond C., to International Harvester Co. Forage harvester. 3,046,720, 7–31–62, Cl. 56—24.

Fischer, Raymond C., to International Harvester Co. Front mounted end to end arranged double mower. 3,066,465, 12–4–62, Cl. 56—25.

Fischer, Richard A., to The Garrett Corp. Balance diaphragm regulator valve. 3,070,108, 12–25–62, Cl. 137—64.

Fischer, Richard L., to United Aircraft Corp. Propeller control system with rate-of-blade-pitch-change feedback. 3,068,943, 12–18–62, Cl. 170—160.2.

Fischer, Robert G., to General Dynamics Corp. Specimen container. 3,064,853, 11–20–62, Cl. 220—66.

Fischer, Robert G., to General Dynamics Corp. Pickup mechanism. 3,067,894, 12–11–62, Cl. 214—658.

Fischer, Robert L., E. F. Losco, and B. Lustman, to Westinghouse Electric Corp. Phase transformation bonding of metal members. 3,025,592, 3–20–62, Cl. 29—194.

Fischer, Rudolph F., and C. W. Smith, to Shell Oil Co. 2-vinyl-4-(delta-hydroxy-butyl)-1,3-dioxolanes. 3,043,851, 7–10–62, Cl. 260—340.9.

Fischer, Stefan, and R. Process and apparatus for forming hollow objects. 3,048,889, 8–14–62, Cl. 18—5.

Fischer, Thomas: *See*—
Kaess, Franz, and Fischer. 3,060,011.
Kaess, Franz, Fischer, and Kronacher. 3,021,192.

Fischer, Thomas, F. Kaess, and H. Kronasher. Suddeutsche Kalkstickstoff-Werke Aktiengesellschaft. Continuous manufacture of calcium cyanamide. 3,051,549, 8–28–62, Cl. 23—78.

Fischer, Walter, J. L. Crutzen, and H. Nilles, to Koppers Co., Inc. Process for converting fusible materials, solid at ordinary temperatures, into spherical granules. 3,060,-510, 10–30–62, Cl. 18—47.2.

Fischer, Werner: *See*—
Krause, Walter, Fischer, Wirtz, and Schilken. 3,047,371.
Wimmer, Rudolf, Wirtz, Portz, Fischer, and Schilken. 3,015,619.

Fischer, Wilbur F.: *See*—
Jankowski, Conrad J., and Fischer. 3,023,179.

Fischer, Wilbur F., and J. L. Ernst, to Esso Research and Engineering Co. Adhesion of dissimilar polymers. 3,059,-682, 10–23–62, Cl. 152—354.

Fischer, William, to Rabinow Engineering Co., Inc. Spiral page moving machine. 3,069,494, 12–18–62, Cl. 178—7.1.

Fischer, William, and H. E. Pendleton. Traction grip device. 3,034,555, 5–15–62, Cl. 152—218.

Fischer, William H.: *See*—
Bratkowski, Walter W., and Fischer. 3,055,098.

Fischer-Colbrie, Erwin: *See*—
Van der Grinten, Willem J., and Fischer-Colbrie. 3,070,-644.

Fischl, Fred B., and D. R. Bove, to Esso Research and Engineering Co. Hydrocarbon fuels stabilized against sediment. 3,056,666, 10–2–62, Cl. 44—66.

Fischle, Lisalotte, W. Kulcke, P. Schweitzer, and J. Trapp, to International Business Machines Corp. Electro-optical character display system. 3,067,413, 12–4–62, Cl. 340—334.
Fischman, Martin, to Sylvania Electric Products Inc. Cathode-ray tube. 3,035,203, 5–15–62, Cl. 315—15.
Fischman, Martin, to Sylvania Electric Products Inc. Oscillator. 3,059,141, 10–16–62, Cl. 315—27.
Fischman, Martin, to Sylvania Electric Products Inc. Amplitude stabilized sawtooth current generator. 3,070,756, 12–25–62, Cl. 331—109.
Fischman, Martin, and W. Geller, to Sylvania Electric Products Inc. Transistor blocking oscillator using resonant pulse width control. 3,038,128, 6–5–62, Cl. 331—112.
Fischoff, Etienne. Methods of and devices for stabilizing turbine rating, notably in power missiles. 3,025,669, 3–20–62, Cl. 60—39.27.
Fish, Alvin K., and H. R. Block, to Slack Mfg. Co. Novelty cap. 3,041,628, 7–3–62, Cl. 2—195.
Fish, Donald H., to Engelhard Industries, Inc. Resistance temperature sensing device. 3,022,478, 2–20–62, Cl. 338—31.
Fish Products Co.: *See*—
Kreutzer, Conradin O. 3,043,041.
Fish, Stephen B.: *See*—
Millinowski, Arthur L., Jr., McCarthy, and Fish. 3,057,-258.
Fish, Walter D., to Joy Mfg. Co. Rock drill rotation mechanism. 3,054,465, 9–18–62, Cl. 175—185.
Fishabar, Marvin H.: *See*—
Easley, John A., and Fishabar. 3,023,138.
Fishburne, Francis B. Hydraulic press. 3,060,977, 10–30–62, Cl. 141—71.
Fisher, Alan J., to United States of America, Army. Radio frequency transformer. 3,066,266, 11–27–62, Cl. 333—25.
Fisher, Albert A.: *See*—
Seiler, William. 3,027,637.
Fisher, Arthur L., R. D. Fountain, R. W. Schweizer, and J. R. Thoms, to W. R. Grace & Co. Battery separators. 3,036,-143, 5–22–62, Cl. 136—145.
Fisher, Barney L., 25% to V. A. Cagle. Amusement device. 3,060,634, 10–30–62, Cl. 46—207.
Fisher, Bernard C., to Neutronic Development Corp. Ignition device. 3,016,411, 1–9–62, Cl. 123—169.
Fisher, Bernard M.: *See*—
Jackson, Frank L., Fisher, and Jordan. 3,037,624.
Fisher, Carl E., to Webber Rubbb dyn form and method of making. 3,048,464, 8–7–62, Cl. 8—79.
Fisher, Charles R., Jr., to General Dynamics Corp. Electronic polar relay. 3,041,475, 6–26–62, Cl. 307—88.5.
Fisher, Chester D., to Sprout, Waldron & Co., Inc. Attrition mill apparatus. 3,038,673, 6–12–62, Cl. 241—245.
Fisher, Coburn B. Turkey cage bottom. 3,029,789, 4–17–62, Cl. 119—48.
Fisher, Coburn B. Automatic poultry nest front. 3,045,645, 7–24–62, Cl. 119—49.
Fisher, Earl E.: *See*—
Cantrell, Troy L., Fisher, and Peters. 3,029,203.
Fisher, Edward. Print coating stand. 3,039,128, 6–19–62, Cl. 15—268.
Fisher, Edward G., and M. R. McGraw. Combination sun shade and pool cover. 3,051,964, 9–4–62, Cl. 4—172.
Fisher, Edward I.: *See*—
Genney, Robert W., and Fisher. 3,067,724.
Fisher, Edward I., to Bostitch, Inc. Fastener applying implement. 3,055,344, 9–25–62, Cl. 121—21.
Fisher, Edward I., to Bostitch, Inc. Fastener applying implements. 3,063,421, 11–13–62, Cl. 121—3.
Fisher, Elmer H. Wheelbarrow attachment. 3,045,847, 7–24–62, Cl. 214—370.
Fisher, Elton, J. D. Christian, and M. T. Giachino, to W. R. Grace & Co. Melamine process. 3,054,796, 9–18–62, Cl. 260—249.7.
Fisher, Frank. Telescoping tractor-trailer hitch. 3,057,644, 10–9–62, Cl. 280—478.
Fisher, Gene J.: *See*—
Wheeler, Edward N., and Fisher. 3,029,253.
Fisher, George A., to General Motors Corp. Steering responsive control for locking differential. 3,027,987, 4–3–62, Cl. 192—.098.
Fisher, George A., to General Motors Corp. Fluid cooled brake. 3,039,567, 6–19–62, Cl. 188—264.
Fisher, George F., to Midland Mfg. Co., Inc. Miniaturized piezoelectric crystal apparatus and method of making same. 3,047,749, 7–31–62, Cl. 310—9.4.
Fisher Governor Co.: *See*—
Irwin, Donald W. 3,032,054.
Johnson, Cecil M., and Trewhitt. 3,064,675.
Johnson, Philip L., and Wilfong. 3,032,067.
Vickery, Edgar H. 3,023,783.
Vickery, Edgar H. 3,036,600.
Wayman, Paul B., and Johnson. 3,045,722.
Zeigler, Ralph W., and Harvey. 3,041,512.
Fisher, Hardin Y., to Albert F. Dormeyer. External reluctance solenoid. 3,032,694, 5–1–62, Cl. 317—186.
Fisher, Hardin Y., and H. H. Mamlok, to A. F. Dormeyer. Flexible link structure. 3,054,935, 9–18–62, Cl. 317—191.
Fisher, Harold R., to Borg-Warner Corp. Engine fuel supply cooler. 3,026,862, 3–27–62, Cl. 123—136.
Fisher, Hiram H., Jr.: *See*—
Conrad, Martin B., and Fisher. 3,036,810.
Fisher, Hiram H., Jr., to Baker Oil Tools, Inc. Multiple testing and pressuring apparatus. 3,051,240, 8–28–62, Cl. 166—131.
Fisher, James L. Hoist for microphone dolly and the like. 3,022,901, 2–27–62, Cl. 212—34.
Fisher, James R.: *See*—
Hull, Robert L., and Fisher. 3,051,731.
Fisher, James W.: *See*—
Grady, Dennis, Bates, and Fisher. 3,031,254.
Fisher, Janina. Magnetic hanger. 3,023,991, 3–6–62, Cl. 248—205.
Fisher, Jeffrey O., and E. Wilson, to British Nylon Spinners Ltd. Textile winding machines. 3,038,477, 5–8–62, Cl. 242—26.3.
Fisher, John R.: *See*—
Blood, Charles A., Jr., and Fisher. 3,039,986.
Tarvin, James W., and Fisher. 3,033,690.
Fisher, John S. Finger key valve for wind musical instruments and method of making the same. 3,044,126, 7–17–62, Cl. 18—59.
Fisher, John T., and D. A. Potter, to Stewart-Warner Corp. Electronic cooling by wick boiling and evaporation. 3,066,-499, 12–4–62, Cl. 62—316.
Fisher, Juliana V., to Illinois Tool Works Inc. Container carrier and package. 3,044,230, 7–17–62, Cl. 53—35.
Fisher, Kenneth A., to Western Electric Co., Inc. Phase comparator circuit having integrating and differentiating input means. 3,039,059, 6–12–62, Cl. 328—133.
Fisher, Lawrence E., to General Electric Co. Busway switch. 3,026,396, 3–20–62, Cl. 200—170.
Fisher & Ludlow Ltd.: *See*—
Orwin, Olaf J. B. 3,042,187.
Orwin, Olaf J. B. 3,064,796.
Orwin, Olaf J. B. 3,065,714.
Fisher, Mark R.: *See*—
Christenson, Howard W., Fisher, Schaefer, Clark, and Rains. 3,053,116.
Fisher, Michael, and A. J. Baseil, to Woodland Electronics Co., Inc. Sensing and synchronizing facsimile means. 3,068,318, 12–11–62, Cl. 178—6.6.
Fisher & Nielsen, Aktieselskabet: *See*—
Hansen, Ove J. G. 3,069,068.
Fisher, Norman B.: *See*—
George, Hayden R., and Fisher. 3,025,050.
George, Hayden R., and Fisher. 3,066,563.
Fisher, Richard E., to United States Bedding Co. Spring assembly machine. 3,053,289, 9–11–62, Cl. 140—92.7.
Fisher, Richard G., and D. H. Jones, to The National Cash Register Co. Disc memory assembly. 3,068,480, 12–11–62, Cl. 346—74.
Fisher, Robert D.: *See*—
Sallo, Jerome S., Fisher, Tsu, and Modl. 3,032,486.
Tsu, Ignatius, Sallo, Fisher, and Modl. 3,032,485.
Fisher, Robert M., and J. E. Holliday, to United States Steel Corp. Apparatus for increasing the energy of X-rays. 3,033,984, 5–8–62, Cl. 250—83.3.
Fisher, Robert P., to Microson Equipment Corp. Method and apparatus for comminuting materials. 3,028,103, 4–3–62, Cl. 241—5.
Fisher, Robert P., to Microson Equipment Corp. Mill. 3,028,-106, 4–3–62, Cl. 241—188.
Fisher Scientific Co.: *See*—
Clark, Robert E. D. 3,027,239.
Clark, Robert E. D. 3,046,289.
Franz, Arthur J. 3,023,776.
Harmon, Duane D. 3,024,693.
Harmon, Duane D. 3,045,533.
Heneage, Peter. 3,043,131.
Fisher, Seth G.: *See*—
Cooke, David A., and Fisher. 3,064,609.
Fisher, Thomas E.: *See*—
Wheeler, Charles J. 3,059,607.
Fisher, Vernon H., to Raytheon Co. Automatic assembling machine. 3,057,041, 10–9–62, Cl. 29—25.19.
Fisher, Waldo H., to Phillips Petroleum Co. Apparatus for polishing wet pelleted carbon black. 3,056,162, 10–2–62, Cl. 18—1.
Fisher, Walter, Jr.: *See*—
Lobeck, John H., and Fisher. 3,046,065.
Lobeck, John H., and Fisher. 3,046,066.
Fisher, Warren C.: *See*—
Brandsma, Walter C., Fisher, and Saydlowski. 3,063,-868.
Fisher, William G., to Philco Corp. Cabinet structure. 3,048,462, 8–7–62, Cl. 312—214.
Fishman, Aaron H., to Admiral Plastics Corp. Lateral expandable shoe form. 3,020,572, 2–13–62, Cl. 12—116.8.
Fishman, Bernard: *See*—
Ryder, Frederick, and Fishman. 3,015,233.
Fishman, Frank J., G. S. Janes, A. R. Kantrowitz, and H. E. Petschek, to Avco Mfg. Corp. Means for and method of generating electrical and magnetic pulses. 3,035,206, 5–15–62, Cl. 315—244.
Fishman, Jordan S. Solid or non-pneumatic tire. 3,066,716, 12–4–62, Cl. 152—323.
Fishman, Louis. Vehicle tires. 3,047,039, 7–31–62, Cl. 152—308.
Fish Net and Twine Co., The: *See*—
Grabowsky, Murray, and Paradis. 3,039,348.
Fisk, John E. Propulsion device for craft in fluids. 3,048,-141, 8–7–62, Cl. 115—22.2.

Fisk, Ronald E.: *See*—
Krause, Lloyd O., and Fisk. 3,066,295.
Fisk, Robert W., to Mathews Conveyer Co. Article transfer device. 3,026,988, 3–27–62, Cl. 198—24.
Fisk, Roy T., and N. K. Allen, to Hyland Laboratories. Anti-M lectin from seeds of Cruciferae Iberis. 3,035,986, 5–22–62, Cl. 167—84.5.
Fisk Tool Co.: *See*—
Smith, Melvin E. 3,032,309.
Fiske, Chester G., to Jari Products, Inc. Device for removing snow. 3,052,048, 9–4–62, Cl. 37—43.
Fiske, Paul E. Pulse stretcher and shaper. 3,068,417, 12–11–62, Cl. 328—55.
Fisken, Kenneth E.: *See*—
Hill, Clifford W., Blanchard, and Fisken. 3,069,532.
Fisons Fertilizers Ltd.: *See*—
Brown, Geoffrey G., and Wilson. 3,049,416.
Brown, Geoffrey G., and Wilson. 3,049,418.
Fisons Ltd.: *See*—
Bradley, John K., Brown, and Sheldrick. 3,049,417.
Bradley, John K., Dee, and Sheldrick. 3,047,379.
Fistedis, Stanley H. Foundation structure. 3,015,912, 1–9–62, Cl. 50—532.
Fister, Aloysius J., to McGraw-Edison Co. Protectors for electric circuits. 3,061,700, 10–30–62, Cl. 200—120.
Fitch, Clyde J., to International Business Machines Corp. Visual indicator. 3,034,112, 5–8–62, Cl. 340—248.
Fitch, Clyde J., to International Business Machines Corp. Tape transport apparatus. 3,057,529, 10–9–62, Cl. 226—49.
Fitch, Ellery E., to Bendix-Westinghouse Automotive Air Brake Co. Braking system skid controller. 3,021,181, 2–13–62, Cl. 303—21.
Fitch, Eugene K., Jr., to Specialties, Inc. Spring rate compensated transducer. 3,062,054, 11–6–62, Cl. 73—410.
Fitch, Howard L. Room data indicator means for hotels and like. 3,064,377, 11–20–62, Cl. 40—65.
Fitch, Howard M., to Engelhard Industries, Inc. Halogenoplatinous mercaptide-alkyl sulfide complexes. 3,022,177, 2–20–62, Cl. 106—1.
Fitch, Leslie L. and L. R. Oven rack. 3,063,360, 11–13–62, Cl. 99—419.
Fitch, Lyle R.: *See*—
Fitch, Leslie L. 3,063,360.
Fitch, Merle E., and A. Warnick, to Ford Motor Co. Control system. 3,062,988, 11–6–62, Cl. 317—5.
Fitch, Robert B., to Stapling Machines Co. Automatic mechanism for selecting boxes according to length. 3,039,381, 6–19–62, Cl. 100—49.
Fitchburg Paper Co.: *See*—
Thurlow, John F. 3,016,823.
Fitchett, Gilmer T., J. E. Gordon, and R. G. Shepherd, to Amman Cyanalid Co. Process for the preparation of N'-alkanoylated sulfanilamidopyridazines. 3,051,702, 8–28–62, Cl. 260—239.7.
Fite, Charles C., Jr.: *See*—
Nikitin, Alexander A., and Fite. 3,057,712.
Fite, George W., Jr., to Mimx Corp. Anti-radiation and dunnage device. 3,031,932, 5–1–62, Cl. 89—1.7.
Fite, George W., Jr., to Mimx Corp. Inhibitor and thermal insulation liner for propellant grains. 3,056,171, 10–2–62, Cl. 18—59.
Fite, Luther S. Full floating fluid pressure operated batch gate for a dumpable body. 3,030,139, 4–17–62, Cl. 296—24.
Fites, Cyril B.: *See*—
May, Walter C., Richards, and Fites. 3,060,899.
Fites, Larry L., to The Upjohn Co. Rotating display. 3,061,971, 11–6–62, Cl. 46—34.
Fitt, Peter G. Air diffusor. 3,063,356, 11–13–62, Cl. 98—40.
Fittz, Raymond U., Jr.: *See*—
Hill, John, Phaneuf, and Fittz. 3,069,531.
Fitzer, Erich: *See*—
Ragoss, Alfred, Fitzer, Nedopil, and Buhmann. 3,035,308.
Fitzgerald, Albert J., to General Electric Co. Framing apparatus. 3,022,872, 2–27–62, Cl. 189—36.
FitzGerald, Arthur G. Baby nursers. 3,061,129, 10–30–62, Cl. 215—11.
Fitzgerald, Charles F., and A. J. Murphy, to United Shoe Machinery Corp. Shuttle drive mechanisms. 3,048,134, 8–7–62, Cl. 112—38.
Fitzgerald, Charles F., and F. T. MacKenzie, to United Shoe Machinery Corp. Shoe sewing machines. 3,058,439, 10–16–62, Cl. 112—258.
Fitzgerald, Charles S., and D. B. Anderson, to Eastman Kodak Co. Method and apparatus for aligning lamps and reflectors. 3,043,184, 7–10–62, Cl. 88—14.
Fitzgerald, Edmund J. Molded plastic container. 3,043,354, 7–10–62, Cl. 150—.5.
Fitzgerald, Edward M.: *See*—
Olsen, Sigurd H., and Fitzgerald. 3,069,802.
Fitzgerald, Francis J., to Lockheed Aircraft Corp. Retro ejector gun. 3,065,672, 11–27–62, Cl. 89—1.5.
Fitzgerald, James E., Jr.: *See*—
Miskel, John J., Fitzgerald, and Ackley. 3,026,792.
Fitzgerald, James W., W. C. Winder, and G. R. Ringo, to Chesapeake Instrument Corp. Method for determining the constituents of milk and milk products. 3,040,562, 6–26–62, Cl. 73—53.
Fitzgerald, John A. Sawbuck for chain saws. 3,053,290, 9–11–62, Cl. 143—32.
Fitzgerald, Paul F., to The Chemstrand Corp. Method of texturing yarns. 3,022,565, 2–27–62, Cl. 28—72.
Fitz Gerald, Robert E., to United-Carr Fastener Corp. Electrical assembly. 3,032,741, 5–1–62, Cl. 339—252.
Fitzgerald, Roland M.: *See*—
Wilde, Geoffrey L., Newton, and Fitzgerald. 3,060,680.
Fitzgerald, Russell C., to Master-Craft Corp. Loose sheet binder. 3,048,178, 8–7–62, Cl. 129—24.
Fitz-Gerald, Stanley C., to Normalair Ltd. Pressure control systems and outflow valves therefor. 3,060,831, 10–30–62, Cl. 98—1.5.
Fitzgerald, William M. Horticultural implement. 3,015,364, 1–2–62, Cl. 172—22.
Fitzhugh, Andrew F.: *See*—
Lavin, Edward, Fitzhugh, and Crozier. 3,069,379.
Fitzmaurice, Dennis T., and C. F. Weinreich, to Cherry-Burrell Corp. Process for producing starch jellies. 3,038,809, 6–12–62, Cl. 99—134.
Fitzner, Arthur O., to Giddings & Lewis Machine Tool Co. Controls for machine tools and the like. 3,016,778, 1–16–62, Cl. 82—14.
Fitzner, Arthur O., to Giddings & Lewis Machine Tool Co. Positioning control apparatus. 3,040,221, 6–19–62, Cl. 318—30.
Fitzner, Arthur O., to Giddings & Lewis Machine Tool Co. Position indicating means for machine tools. 3,048,832, 8–7–62, Cl. 340—187.
Fitz-On Heel Corp.: *See*—
Purtell, Raymond F. 3,063,170.
Fitzpatrick, Co., The: *See*—
Kircher, Albert, Jr. 3,051,400.
Kircher, Albert, Jr. 3,064,701.
Fitz Patrick, Donald B., to The Babcock & Wilcox Co. Access door. 3,055,321, 9–25–62, Cl. 110—173.
Fitzpatrick, Evelyn D. Manicuring aid. 3,056,968, 10–9–62, Cl. 2—46.
Fitzpatrick, John A.: *See*—
Cohen, Charles L., Fitzpatrick, and Lyon. 3,024,458.
Fitzpatrick, John A., to Airtronics, Inc. Hydrogen gas generating propellant compositions. 3,046,728, 7–31–62, Cl. 60—35.4.
Fitzpatrick, John B., to Radio Corp. of America. Coil winding apparatus and method of making a wire coil. 3,059,669, 10–23–62, Cl. 140—71.5.
Fitzpatrick, John T.: *See*—
Hill, Fred N., Bailey, and Fitzpatrick. 3,062,755.
Hill, Fred N., Fitzpatrick, and Bailey. 3,037,943.
Marcus, Erich, and Fitzpatrick. 3,030,385.
Marcus, Erich, and Fitzpatrick. 3,037,994.
Marcus, Erich, and Fitzpatrick. 3,056,803.
Marcus, Erich, and Fitzpatrick. 3,056,804.
Marcus, Erich, and Fitzpatrick. 3,068,255.
Tinsley, Samuel W., and Fitzpatrick. 3,037,057.
Fitzpatrick, John T., G. W. Fowler, and E. Marcus, to Union Carbide Corp. Pyridine quaternary compounds. 3,069,422, 12–18–62, Cl. 260—240.
Fitzpatrick, John T., G. W. Fowler, and E. Marcus, to Union Carbide Corp. Pyridine quaternary compounds. 3,069,428, 12–18–62, Cl. 260—297.
Fitzpatrick, Paul, to General Motors Corp. Differential valve. 3,070,124, 12–25–62, Cl. 137—620.
Fitzpatrick, William J., to George E. Belcher Co. Shoe tree having longitudinally adjustable parts including cone sections alined by the shoes. 3,038,184, 6–12–62, Cl. 12—142.
Fitzsimmons, Vincent G.: *See*—
Zisman, William A., and Fitzsimmons. 3,040,662.
Fitzwater, Donald B. Folding scaffold ladder. 3,062,318, 11–6–62, Cl. 182—27.
Fix, Mary N., to United States of America, Navy. Method and apparatus for measuring transient pressures. 3,024,-641, 3–13–62, Cl. 73—35.
Fixture Hardware Corp.: *See*—
Keil, Henry P. 3,033,110.
Keil, Henry P. 3,068,786.
Keil, Henry P. 3,069,159.
Fjelstad, Harold K. Portable scrubbing device. 3,040,337, 6–26–62, Cl. 4—184.
Fjelstad, Harold K. Bathing appliance. 3,055,037, 9–25–62, Cl. 5—210.
Fjeran, John, to Philip Morris, Inc. Safety razor with relatively slidable gripping and operating means. 3,061,926, 11–6–62, Cl. 30—51.
Fjermestad, Arnold R., to National Cooperatives, Inc. Suction line connector for milking machine claws. 3,070,067, 12–25–62, Cl. 119—14.36.
Flabiano, Sante J.: *See*—
Knapp, Arthur D., Flabiano, and McGuire. 3,032,753.
Flach, Hans-Georg, and O. Sanger, to Ernst Leitz G.m.b.H. Multi-scale light meter. 3,057,276, 10–9–62, Cl. 95—10.
Flack, Carl B., and E. R. Gray, to E. I. du Pont de Nemours and Co. Composition comprising particles of a blowing agent coated with a desensitizing oil and a modifier and a plastisol composition containing same. 3,055,846, 9–25–62, Cl. 260—2.5.
Flack, Paul M. Emergency signal. 3,060,605, 10–30–62, Cl. 40—129.
Flack, Walter E., to FMC Corp. Carton forming machine. 3,030,868, 4–24–62, Cl. 93—51.
Flad, Hermann, W. Knoll, and L. M. von Inffeld, to Simill, Fabrik feiner Schleifprodukte. Ornamental stone consisting of glass, transparent plastics or the like. 3,039,280, 6–19–62, Cl. 63—32.

Flagan, Robert G.: *See*—
Tantlinger, Keith W., and Flagan. 3,061,364.
Flagg, John E., and N. A. Cormier, to David Clark Co. Inc. Seamless molded brassiere cups. 3,021,844, 2–20–62, Cl. 128—463.
Flagg, John E., and N. A. Cormier, to David Clark Co. Inc. Method of making seamless molded brassiere cups. 3,026,-227, 3–20–62, Cl. 154—110.
Flagg, John E., to David Clark Co. Inc. Heat-resistant garment. 3,043,300, 7–10–62, Cl. 128—144.
Flagge, Andrew, to Victor Comptometer Corp. Register-controlled means for controlling and actuating recording apparatus. 3,022,939, 2–27–62, Cl. 235—59.
Flaherty, James H., to General Motors Corp. System for indicating maximum duration of power failure. 3,056,254, 10–2–62, Cl. 58—145.
Flaherty, Leslie L. Hog handling device. 3,027,991, 4–3–62, Cl. 198—76.
Flaherty, Lester H.: *See*—
Hubbard, William J., and Flaherty. 3,050,839.
Flaig, Heinrich, and A. Stark, to J. M. Voith, G.m.b.H., Maschinenfabrik. Suspension distributing system. 3,067,-815, 12–11–62, Cl. 162—342.
Flair, Henry J., to Illinois Tool Works. Automatic milling machine. 3,037,428, 6–5–62, Cl. 90—11.62.
Flakice Corp.: *See*—
Field, Crosby. 3,037,366.
Flam, Frederick H. Match point duplicate bridge scorer. 3,044,693, 7–17–62, Cl. 235—61.6.
Flamand, Maurice R.: *See*—
Brown, Ralph H., Jr., and Flamand. 3,034,539.
Flamand, Maurice R., to Draper Corp. Loom stop motion. 3,066,705, 12–4–62, Cl. 139—374.
Flambeau Plastics Corp.: *See*—
Hulterstrum, Harold D. 3,050,803.
Flamm, Thomas J., to Allis-Chalmers Mfg. Co. Fluid displacing rotor device. 3,023,840, 3–6–62, Cl. 183—77.
Flammer Seifenwerke K.G.: *See*—
Burger, Walter, and Lübbe. 3,065,114.
Flan, Anthony. Automatic magazine type tape mechanism. 3,027,112, 3–27–62, Cl. 242—55.13.
Flanagan, Charles D., to Texas Instruments Inc. Thermostatic electrical resistance elements and their method of manufacture. 3,033,959, 5–8–62, Cl. 200—113.
Flanagan, Charles D, to Texas Instruments Inc. Electrical switches. 3,062,937, 11–6–62, Cl. 200—122.
Flanagan, James E. Attachment of golf bag to cart. 3,051,-505, 8–26–62, Cl. 280—47.26.
Flanagan, James F. Dart game. 3,059,928, 10–23–62, Cl. 273—95.
Flanagan, Pat W. K., to Continental Oil Co. Oxidation of trialkylaluminum in the presence of aluminum trialkoxide. 3,070,616, 12–25–62, Cl. 260—448.
Flanagan, William H., Jr.: *See*—
Mitcheli, Edward B., and Flanagan. 3,015,797.
Mitchell, Edward B., and Flanagan. 3,024,335.
Flanagan, William H., Jr., to United-Carr Fastener Corp. Electrical device. 3,066,643, 12–4–62, Cl. 116—136.5.
Flanders Filters, Inc.: *See*—
Allan, Adrian R., Jr. 3,057,468.
Flanders, James H., to The Jones & Lamson Machine Co. Tangential grinding. 3,056,243, 10–2–62, Cl. 51—289.
Flanders, Robert L.: *See*—
Knowlton, Harold E., Flanders, and Parker. 3,030,314.
Flanders, Robert L., F. M. Parker, and H. E. Knowlton, to California Research Corp. Catalytic cracking with an attrition resistant catalyst. 3,030,300, 4–17–62, Cl. 208—114.
Flanigan, Eugene E.: *See*—
Conklin, Emmett D., Flanigan, Ricketts, and Turunen. 3,027,717.
Zeek, Richard M., and Flanigan. 3,039,315.
Flanigen, Warren B., and B. G. Dunckel, to Litecraft Mfg. Corp. Push release latch. 3,053,560, 9–11–62, Cl. 292—99.
Flannery, Edward J., and F. A. Raymond, to R. Hoe & Co., Inc. Automatic paster control for rotary-press printing plants. 3,015,454, 1–2–62, Cl. 242—58.2.
Flannery, Edward P., Jr. Cleaning tissue packaging. 3,067,868, 12–11–62, Cl. 206—57.
Flansburgh, John C.: *See*—
Deputa, Frank J., Hanson, Leavit, and Flansburgh. 3,038,288.
Flapan, Jack: *See*—
Haverberg, Loren R. 3,058,133.
Flarity, Warren H., to Ryan Aeronautical Co. Variable frequency passive phase shifter. 3,056,921, 10–2–62, Cl. 324—57.
Flaschen, Steward S., and A. D. Pearson, to Bell Telephone Laboratories, Inc. Glass composition and coated article. 3,024,119, 3–6–62, Cl. 106—47.
Flaschen, Steward S., and P. D. Garn, to Bell Telephone Laboratories, Inc. Conductors insulated with aluminum fluoride. 3,028,447, 4–3–62, Cl. 174—113.
Flaszenberg, Alexander, I. Prulov, and M. Lapidot, to The Government of Israel on behalf of the state of Israel. Process for the upgrading of rock phosphate. 3,067,023, 12–4–62, Cl. 71—37.
Flateau, Christian L.: *See*—
Arsem, Alvan D., Osborne, Laurien, and Flateau. 3,069,-958.
Flatland, Lloyd P. Vacuum-powered aspirating lathe. 3,023,-553, 3–6–62, Cl. 51—273.
Flaton, Howard C.: *See*—
Thorel, John P., Mei, and Flaton. 3,050,943.
Flatt, Friedrich, to Escher Wyss Aktiengesellschaft. Heat exchange arrangement for nuclear power plant. 3,069,342. 12–18–62, Cl. 204—193.2.
Flatt, Harold R. Electrically operated apparatus for producing oscillatory motion of a toothbrush. 3,029,651, 4–17–62, Cl. 74—48.
Flatt, James H., and K. W. Young, to General Motors Corp. Vacuum switch. 3,049,602, 8–14–62, Cl. 200—83.
Flatt, James H., and K. W. Young, to General Motors Corp. Vacuum switch. 3,049,603, 8–14–62, Cl. 200—83.
Flavin, James P., and J. R. Riden, Jr., to Chemagro Corp. Sulfonyl ethylene fungicides. 3,044,926, 7–17–62, Cl. 167—22.
Flavin, Theodore F.: *See*—
Anderson, Theodore H., Flavin, and Wicklund. 3,037,768.
Flavin, Theodore F., and H. P. Wicklund, to International Business Machines Corp. Hydraulic control apparatus. 3,037,689, 6–5–62, Cl. 234—106.
Flaws, John, Jr., and R. O. Dunbar, to General Electric Co. Apparatus for gas filling electric lamps. 3,028,712, 4–10–62, Cl. 53—88.
Flax, Valer. Multi-receptacle plastic container. 3,060,653, 10–30–62, Cl. 53—28.
Fleck, Francis C.: *See*—
Boyce, Harlan R., Fleck, and Fournier. 3,039,557.
Fleck, Fritz, to Fidelity Union Trust Co., executive trustee under Sandoz Trust. Optical brighteners for use with paper. 3,018,287, 1–23–62, Cl. 260—240.
Fleck, Fritz, to Sandoz Ltd. (also known as Sandoz A.G.). Brightening agents for polyamide fibers. 3,031,326, 4–24–62, Cl. 117—33.5.
Fleck, Harry D. Ozone generator and system. 3,024,185, 3–6–62, Cl. 204—318.
Fleck, Raymond N., and C. Wight, to Union Oil Co. of California. Separation of heterocyclic nitrogen compounds. 3,029,242, 4–10–62, Cl. 260—283.
Fleck, Raymond N., and C. G. Wight, to Union Oil Co. of California. Separation of pyridine homologues. 3,064,002, 11–13–62, Cl. 260—290.
Fleck, Raymond N., and C. G. Wight, to Union Oil Co. of California. Olefin recovery process. 3,067,271, 12–4–62, Cl. 260—677.
Fleck, Raymond N., and C. G. Wight, to Union Oil Co. of California. Separation of toluidine isomers. 3,069,470. 12–18–62, Cl. 260—582.
Fleck, Raymond N., and C. G. Wight, to Union Oil Co. of California. Cyclohexane isomerization. 3,069,482, 12–18–62, Cl. 260—666.
Fleck, Werner: *See*—
Schleifer, Josef, Fleck, Droppa, and Muller. 3,030,545.
Fleckenstein, P. Sieber, and L. Kiesow, to Licentia Patent-Verwaltungs-G.m.b.H. Ventilator. 3,022,969, 2–27–62, Cl. 248—13.
Fleckenstein, William O., to Bell Telephone Laboratories, Inc. Variable length code group circuits. 3,051,940, 8–28–62, Cl. 340—247.
Fleckenstein, William O., to Bell Telephone Laboratories, Inc. Pulse frequency divider. 3,067,363, 12–4–62, Cl. 317—140.
Fleetwood, Clifford H. J.: *See*—
Hitch, Eric G., Pells, and Fleetwood. 3,030,445.
Flegel, Dean F., to Reliance Time Controls, Inc. Electrical timer switch control. 3,033,950, 5–8–62, Cl. 200—39.
Flegel, George J.: *See*—
Manas, Vincent T., and Flegel. 3,020,565.
Manas, Vincent T., and Flegel. 3,054,119.
Fleischer, Arthur: *See*—
Grieger, Philip F., and Fleischer. 3,051,831.
Fleischer, David, and J. A. Liebeskind. Handicap computer. 3,070,308, 12–25–62, Cl. 235—193.
Fleischer, Dorothy M.: *See*—
Shacklett, William E. 3,030,883.
Fleischer, Irvin: *See*—
Shacklett, William E. 3,030,883.
Fleischer, Joseph, and W. S. Matt; said Matt, assor. to said Fleischer. Truck with cable reel loading and unloading means. 3,063,584, 11–13–62, Cl. 214—77.
Fleischer, Julius R., to Converse Rubber Corp. Buffing machine for use in shoe making. 3,056,150, 10–2–62, Cl. 12—17.
Fleischer, Kurt W., to Selas Corp. of America. Tube support. 3,026,858, 3–27–62, Cl. 122—510.
Fleischer, Kurt W., to Selas Corp. of America. Tube heater. 3,062,197, 11–6–62, Cl. 122—510.
Fleischer, Robert: *See*—
Pedersen, Norman E., and Fleischer. 3,019,430.
Fleischhauer, Eugene T., to Texaco Experiment Inc. Pressure fluid ram. 3,044,289, 7–17–62, Cl. 73—12.
Fleischman, Alan I.: *See*—
Haas, Gerhard J., and Fleischman. 3,052,547.
Fleischman, Martin M. Barrel handling girdle. 3,052,441, 9–4–62, Cl. 248—141.
Fleischmann, Lester K. Carbon paper pack. 3,048,425, 8–7–62, Cl. 282—19.
Fleisher, Harold, to International Business Machines Corp. Trigger circuits employing direct coupled transistors. 3,021,437, 2–13–62, Cl. 307—88.5.
Fleisher, Robert: *See*—
Laakso, Thomas M., and Fleisher. 3,039,870.

Fleishman, Charles H., and B. Ross, to Electronic Cover-Lite Corp. Illuminated wrist watch. 3,025,662, 3–20–62, Cl. 58—50.

Fleisig, Nathan. Combined jewelry item and retractable roll of photos. 3,061,962, 11–6–62, Cl. 40—85.

Fleissner G.m.b.H.: *See*—
Fleissner, Johann and G. 3,019,630.

Fleissner, Geroid: *See*—
Fleissner, Heinz. 3,032,856.
Friedel, Wolfgang. 3,059,308.

Fleissner, Gerold, to Fleissner & Sohn, G.m.b.H. & Co., Maschinenfabrik. Apparatus for continuous wet treatment of fibrous material in bat and like formation. 3,025,691, 3–20–62, Cl. 68—158.

Fleissner, Gerold. Means for processing long and short stapled fibrous material. 3,047,911, 8–7–62, Cl. 19—96.

Fleissner, Gerold, to Fleissner & Sohn, G.m.b.H. & Co. Wet treatment plant for textiles. 3,063,279, 11–13–62, Cl. 68—22.

Fleissner Gesellschaft mit Beschraenkter Haftung: *See*—
Fleissner, Johann E. 3,027,006.

Fleissner, Hans. Air guiding means for drying apparatus. 3,021,608, 2–20–62, Cl. 34—115.

Fleissner, Hans, to Fleissner & Sohn G.m.b.H. & Co. Treatment plant for continuous lengthy material in particular for textile materials. 3,028,682, 4–10–62, Cl. 34—115.

Fleissner, Hans, to Firma Fleissner & Sohn, G.m.b.H. & Co. Screen cylinder drier for fibrous material. 3,043,018, 7–10–62, Cl. 34—115.

Fleissner, Heinz, to Firma Fleissner & Sohn, G.m.b.H. Combination drying and tentering machine. 3,021,607, 2–20–62, Cl. 34—115.

Fleissner, Heinz, to Fleissner G.m.b.H., Firma. Apparatus for treating yarn, thread, ribbons and the like elongated material capable of being stretched. 3,032,856, 5–8–62, Cl. 28—59.5.

Fleissner, Johann and G., to Fleissner & Sohn Maschinenfabrik. Washing or dyeing machine. 3,019,630, 2–6–62, Cl. 68—158.

Fleissner, Johann E., to Fleissner Gesellschaft mit Beschraenkter Haftung. Method and apparatus for processing shaving like materials. 3,027,006, 3–27–62, Cl. 209—11.

Fleissner & Sohn G.m.b.H. & Co.: *See*—
Fleissner, Gerold. 3,063,279.
Fleissner, Hans. 3,028,682.
Fleissner, Heinz. 3,021,607.

Fleissner & Sohn, G.m.b.H. & Co., Firma: *See*—
Fleissner, Hans. 3,043,018.

Fleissner & Sohn, G.m.b.H. & Co., Maschinenfabrik: *See*—
Fleissner, Gerold. 3,025,691.

Fleissner & Sohn Maschinenfabrik: *See*—
Fleissner, Johann and G. 3,019,630.

Fleming, David G. and S. K. Guth, to General Electric Co. Negative ion generator. 3,047,718, 7–31–62, Cl. 250—43.

Fleming, David H., Jr., to Union Carbide Corp. Suspension type rotary piercing process and apparatus. 3,045,766, 7–24–62, Cl. 175—14.

Fleming, Earl L., E. P. Neher, and C. O. Slemmons, to The General Tire & Rubber Co. Formed tube coupling. 3,066,503, 12–4–62, Cl. 64—27.

Fleming, Earl N.: *See*—
Thierfelder, Ervin H., and Fleming. 3,047,886.

Fleming, Earl N., and G. S. Fasanella, to The Englander Co., Inc. Mattress structure. 3,058,126, 10–16–62, Cl. 5—352.

Fleming, Harold W., and W. R. Gutmann, to Catalysts and Chemicals Inc. Selective conversion of COS in the presence of a non-acetylenic unsaturated hydrocarbon gas. 3,050,571, 8–21–62, Cl. 260—677.

Fleming, Howard M., Jr., to Electro-Mechanical Research, Inc. Magnetic dial reading apparatus. 3,045,903, 7–24–62, Cl. 235—61.

Fleming, Howard M., Jr., I. Gardoff, R. La Manna, and M. Weinberg, to Monroe Calculating Machine Co. Binary integer divider. 3,039,691, 6–19–62, Cl. 235—165.

Fleming, John S. Machine for tearing paper. 3,028,061, 4–3–62, Cl. 225—99.

Fleming, Karl J.: *See*—
Fay, John A., Stephens, Fleming, and Jordan. 3,058,479.

Fleming, Matthew J., Jr., to Clevite Harris Products, Inc. Resilient connector. 3,053,046, 9–11–62, Cl. 85—40.

Fleming, Paul A. Angler's fish and tackle container. 3,062,421, 11–6–62, Cl. 224—7.

Fleming, Richard E., to Tri-County Leasing Corp. Truck loading elevator device for handling hand trucks. 3,054,519, 9–18–62, Cl. 214—512.

Fleming, Robert B., 1/10 to J. C. Baisch. Anti-spray device for container openers. 3,037,279, 6–5–62, Cl. 30—16.

Fleming, Robert S., to Amerace Corp. Dougle-acting rubber hinge. 3,032,808, 5–8–62, Cl. 16—150.

Fleming, Robert S., W. H. Cowles, and R. L. Ensinger, to Holley Carburetor Co. Force balance system. 3,021,820, 2–20–62, Cl. 121—41.

Fleming, Robert S., W. H. Cowles, and R. L. Ensinger, to Holley Carburetor Co. Fuel control for a gas turbine engine. 3,068,648, 12–18–62, Cl. 60—39.28.

Fleming, Ronald F., to The Gray Mfg. Co. Sound translating apparatus. 3,031,530, 4–24–62, Cl. 179—100.1.

Fleming & Sons, Inc.: *See*—
Shiels, Thomas E., Jr. 3,056,528.

Fleming, Walter H.: *See*—
Cummings, Francis M., Fleming, and Matson. 3,046,480.

Fleming, Warren B.: *See*—
Hlavacek, William J., and Fleming. 3,023,554.

Fleming, William E. Combination cattle oiler and scratcher. 3,038,445, 6–12–62, Cl. 119—157.

Fleming, William M.: *See*—
McLaughlin, Asa L., Priesnitz, Haworth, Fleming, Conder, and Frost. 3,052,455.

Flemmert, Gosta L. Process for the production of hydrophilic silicon dioxide. 3,053,627, 9–11–62, Cl. 23—182.

Fletcher, Archibald W., to National Research Development Corp. Extraction of metal values. 3,055,754, 9–25–62, Cl. 75—97.

Fletcher, Arthur H., to Rolls-Royce Ltd. Improvements in by-pass type gas turbine engines. 3,068,646, 12–18–62, Cl. 60—35.6.

Fletcher, David A., to Lockheed Propulsion Co. Explosive composition. 3,036,940, 5–29–62, Cl. 149—83.

Fletcher, Harold A. Telescopic dental siphon. 3,029,513, 4–17–62, Cl. 32—33.

Fletcher, Harry W., to Carrier Corp. Method of manufacturing variable resistors. 3,064,335, 11–20–62. Cl. 29—155.63.

Fletcher, Harry W., and R. C. Chase, to Carrier Corp., Apparatus for and method of welding. 3,039,097, 10–16–62, Cl. 219—108.

Fletcher, Henry R., to Dunlop Rubber Co. Ltd. Inflatable articles and inflation valves therefor. 3,044,525, 7–17–62, Cl. 152—429.

Fletcher, J. H., & Co.: *See*—
Fletcher, James H., J. R., and W. F. 3,032,129.
Vasselin, John F. 3,019,004.

Fletcher, James H., J. R., and W. F., to J. H. Fletcher & Co. Dust collecting drill steel and bit. 3,032,129, 5–1–62, Cl. 175—320.

Fletcher, James R.: *See*—
Fletcher, James H., J. R., and W. F. 3,032,129.

Fletcher, John L., and A. J. Riopelle. Acoustic reflex ear protective system. 3,068,319, 12–11–62, Cl. 179—1.

Fletcher, Kenneth J.: *See*—
Arots, Joseph B., and Fletcher. 3,029,139.

Fletcher, Kenneth L.: *See*—
Duck, Edward W., and Fletcher. 3,061,602.

Fletcher, Peter S., to A. Lorenz. Extensible head-rest and control. 3,033,610, 5–8–62, Cl. 297—61.

Fletcher, Peter S., to A. Lorenz. Reclining chair of the multiple type. 3,039,814, 6–19–62, Cl. 297—84.

Fletcher, Peter S., to A. Lorenz. Reclining chairs. 3,041,105, 6–26–62, Cl. 297—85.

Fletcher, Peter S., to A. Lorenz. Adjustable chairs. 3,041,106, 6–26–62, Cl. 297—89.

Fletcher, Peter S., to A. Lorenz. Reclining chair of the multiple movement type. 3,043,621, 7–10–62, Cl. 297—85.

Fletcher, Peter S., to A. Lorenz. Reclining chair of the multiple position type. 3,056,629, 10–2–62, Cl. 297—316.

Fletcher, Peter S., to A. Lorenz. Rapidly extensible head-rest and control. 3,057,657, 10–9–62, Cl. 297—61.

Fletcher, Peter S., to A. Lorenz. Leg-rest control linkage for reclining chairs. 3,062,581, 11–6–62, Cl. 297—89.

Fletcher, Peter S., to A. Lorenz. Adjustable reclining chair with coordinated leg-rest control means. 3,065,024, 11–20–62, Cl. 297—89.

Fletcher, Robert E., to Dana Corp. Gear shift lock. 3,016,759, 1–16–62, Cl. 74—475.

Fletcher, Taylor C., and L. M. Silva, to Beckman Instruments, Inc. Data handling system. 3,027,079, 3–27–62, Cl. 235—154.

Fletcher, Taylor C., J. H. Brown, L. W. Chapin, and H. G. Preston, to Beckman Instruments, Inc. Alarm switching circuit. 3,068,450, 12–11–62, Cl. 340—149.

Fletcher, Thomas G. Cigarette case. 3,062,365, 11–6–62, Cl. 206—41.

Fletcher-Terry Co., The: *See*—
Judd, Chester K., Jr. 3,026,153.

Fletcher, Vernon A.: *See*—
Jurs, Peter C., Van Overveen, and Fletcher. 3,055,629.

Fletcher, Vernon A., to Shand and Jurs Co. Liquid level gauging apparatus 3,037,386, 6–5–62, Cl. 73—321.

Fletcher, William A.: *See*—
Barkley, C. Glen, and Fletcher. 3,067,635.

Fletcher, William F.: *See*—
Fletcher, James H., J. R., and W. F. 3,032,129.

Fleury, Alexander C. Socket type threading die holder with work guide means. 3,031,699, 5–1–62, Cl. 10—127.

Fleury, Marcel, to Compagnie Generale d'Electricite. Apparatus for manufacture of impregnated fibrous tubes. 3,067,803, 12–11–62, Cl. 156—431.

Flex Fasteners Ltd.: *See*—
Evans, Herbert. 3,050,842.

Flexible Co., The: *See*—
Garver, Curtis A. 3,042,933.

Flexible Sewertool Corp.: *See*—
Arnold, Gordon D. 3,022,908.

Flexible Steel Lacing Co.: *See*—
Pray, Winston C. 3,067,474.

Flexibox Ltd.: *See*—
Porges, Frederick B. 3,051,498.

Flexicore Co., Inc., The: *See*—
Smith, Robert E. and W. B., and Wise. 3,023,477.
Wise, Mark J. 3,023,476.
Wise, Mark J. 3,061,904.
Wise, Mark J., and Smith. 3,039,632.

Flex-Let Corp. : *See*—
Obst, Charles J. 3,038,296.
Flex-O-Glass, Inc. : *See*—
Warp, Harold. 3,070,273.
Flexographic Mounting Machine Corp. : *See*—
Larsen, Robert D. 3,057,292.
Flex-O-Lators, Inc. : *See*—
Richardson, William F. 3,044,615.
Richardson, William F. 3,066,897.
Richardson, William F., and Sperry. 3,038,426.
Flex-O-Lite Mfg. Corp. : *See*—
D'Adrian, Vincent L. D. 3,041,191.
Flexonics Corp. : *See*—
Parlasca, Edwin W., and Donkle. 3,029,094.
Flexsleev, Inc. : *See*—
Clyde, Joseph. 3,050,805.
Flick-Reedy Corp. : *See*—
Kudlaty, Walter J. 3,048,151.
Flick, Willy, R. Hilweg, and E. Umhofer, to Kluber Lubrication Ges. m.b.H. Apparatus for the compressed air injection of separating agents and/or lubricants into pressure casting molds. 3,066,873, 12–4–62, Cl. 239—413.
Flickinger, Don H., to Pan American Petroleum Corp. Producing multiple fractures in a cased well. 3,028,914, 4–10–62, Cl. 166—42.
Flieder, Emil W. Toilet tank inlet valve. 3,024,799, 3–13–62, Cl. 137—207.
Flieg, Werner, to Invac Corp. Data recorder and associated methods. 3,032,163, 5–1–62, Cl. 197—1.5.
Fliegner, Horst : *See*—
Buchwald, Fritz, and Fliegner. 3,035,695.
Buchwald, Fritz, Fliegner, Kastenbein, and Sindzinski. 3,069,011.
Richert, Eberhard, and Fliegner. 3,051,332.
Richert, Eberhard, and Fliegner. 3,051,333.
Fliegner, Horst, and W. Kastenbein, to International Standard Electric Corp. Equipment to supply flat articles to a conveying system. 3,039,592, 6–19–62, Cl. 198—34.
Fliezar, Geza B., and J. J. Monahan, to Western Electric Co., Inc. Bag-out unit for wave tube exhaust machine. 3,016,443, 1–9–62, Cl. 219—35.
Fliezar, Geza B., and J. J. Monahan, to Western Electric Co., Inc. Dolly for wave tube exhaust machine. 3,028,887, 4–10–62, Cl. 141—65.
Fliezar, Geza B., and J. J. Monahan, to Western Electric Co., Inc. H.F. station for wave tube exhaust machine. 3,036,186, 5–22–62, Cl. 219—10.69.
Fliezar, Geza B., and J. J. Monahan, to Western Electric Co., Inc. Finishing station for wave tube exhaust machine. 3,041,128, 6–26–62, Cl. 316—30.
Fliezar, Geza B., and J. J. Monahan, to Western Electric Co., Inc. Loading gages for wave tube exhausting machine. 3,043,449, 7–10–62, Cl. 214—1.
Flight Equipment and Engineering Corp. : *See*—
Hutchinson, John W., Fenn, and Preiss. 3,042,449.
Flight Refueling Inc. : *See*—
Perry, Patrick J., and Maslow. 3,069,127.
Smith, Charles H. 3,042,385.
Flight Refuelling Ltd. : *See*—
MacGregor, Peter S. 3,040,778.
Norton, Harry W. 3,016,152.
Flight-X Fabrics, Inc. : *See*—
Stewart, Richard C., and de Verrier. 3,025,406.
Flinchbaugh, Rodman F., H. W. Huffman, and R. A. Sands, to Polaroid Corp. Temporary seal for photographic film roll. 3,022,170, 2–20–62, Cl. 96—78.
Flinn, George E., to Borg-Warner Corp. Control for transmission. 3,023,632, 3–6–62, Cl. 74—472.
Flinn, George E., to Borg-Warner Corp. Rear mounted transmission. 3,051,017, 8–28–62, Cl. 74—677.
Flinn, Paul A., to Westinghouse Electric Corp. High temperature nickel base alloys. 3,021,211, 2–13–62, Cl. 75—170.
Flinn, Richard A. : *See*—
Beuther, Harold, Flinn, and Larson. 3,053,750.
Flinn, Richard A., and M. M. Stewart, to Gulf Research & Development Co. Removal of vanadium from a supported molybdenum-containing catalyst. 3,020,239, 2–6–62, Cl. 252—413.
Flint, Henry F. Tobacco smoking device. 3,057,362, 10–9–62, Cl. 131—173.
Flint, Hyland C. Seat construction. 3,025,102, 3–13–62, Cl. 297—113.
Flint, Hyland C. Hinged back cushion movable with the seat cushion. 3,034,829, 5–15–62, Cl. 297—307.
Flint, Hyland C. Seat construction. 3,059,967, 10–23–62, Cl. 297—309.
Flint, Hyland C., and R. G. Heyl, Jr., to American Metal Products Co. Spring units and cushion constructed therefrom. 3,055,653, 9–25–62, Cl. 267—107.
Flint, Kenneth C. : *See*—
Werner, Frank R., and Flint. 3,031,134.
Werner, Frank R., Randall, and Flint. 3,017,078.
Flint, Kenneth C., and F. R. Werner, to The National Cash Register Co. Operation signalling mechanism for cash registers. 3,021,052, 2–13–62, Cl. 235—23.
Flint, Knute W., to World Wide Helicopters, Inc. Apparatus and method for moving loads with combination helicopter and balloon. 3,017,138, 1–16–62, Cl. 244—3.
Flint, Thomas, and R. J. Robinson, to W. R. Grace & Co. Container forming method and apparatus. 3,061,158, 10–30–62, Cl. 226—32.
Flintkote Co., The : *See*—
Shelton-V, George D. 3,033,472.
Shelton-V, George D. 3,039,702.
Flock, Ernest F. : *See*—
Duncan, Richard L., Miller, Caldwell, Ruegg, and Flock. 3,016,704.
Flocks, Karl W. : *See*—
Gill, Edwin R., Jr. 3,030,870.
Gill, Edwin R., Jr. 3,049,980.
Flodin, Per G. M., and B. G.-A. Ingelman, to Aktiebolaget Pharmacia. Process for producing dextran derivatives and products resulting therefrom. 3,042,667, 7–3–62, Cl. 260—209.
Flodman, Burdette A. Water diversion guide. 3,054,564, 9–18–62, Cl. 239—502.
Floehr, Walter L., to Unitcast Corp. Sliding hopper gate operating mechanism. 3,021,798, 2–20–62, Cl. 105—282.
Floehr, Walter L., to Unitcast Corp. Torsion spring assembly. 3,022,536, 2–27–62, Cl. 16—75.
Flohr, William P., Jr. : *See*—
Snyder, Glenn M., and Flohr. 3,036,411.
Flo-Motive Corp., The : *See*—
Hartley, Ezra D. 3,040,664.
Floe, Ben W. Golfer's accessory. 3,025,064, 3–13–62, Cl. 273—183.
Flood, Carl A., to Dennison Mfg. Co. Bottle labeling machine. 3,058,514, 10–16–62, Cl. 156—542.
Flood, Carl A., to Dennison Mfg. Co. Apparatus for applying indicia to articles. 3,064,714, 11–20–62, Cl. 156—542.
Flood, David P. : *See*—
Alford, Andrew, and Flood. 3,016,504.
Flood, David P. Band pass-band reject filter. 3,056,933, 10–2–62, Cl. 333—73.
Flood, James W. Bathtub attachments. 3,016,547, 1–16–62, Cl. 4—185.
Flood, John F. Hypodermic needle guide. 3,021,842, 2–20–62, Cl. 128—215.
Flora, Raymond A., to General Motors Corp. Speed sensitive driving clutch mechanism. 3,055,476, 9–25–62, Cl. 192—104.
Flora, Raymond A., G. A. Neyhouse, J. W. Savage, and R. K. Shewmon, to General Motors Corp. Clothes drier. 3,060,593, 10–30–62, Cl. 34—133.
Floramo, Nicholas A., to Chemicals Inc. Iron hydrogenated dextran. 3,022,221, 2–20–62, Cl. 167—68.
Floren, Carl E., and C. R. Foltz, to Mueller Co. Rotary plug valve. 3,066,908, 12–4–62, Cl. 251—287.
Florence, Noel S., to Lightolier Inc. Holding means for diffuser of lighting fixtures. 3,024,356, 3–6–62, Cl. 240—147.
Flores, Joseph C. Apparatus for controlling room heating system. 3,038,663, 6–12–62, Cl. 236—46.
Flores, Minerva C., and B. Loev, to Smith Kline & French Laboratories. Esters of 2-carbamoylbenzenesulfonic acids. 3,055,928, 9–25–62, Cl. 260—456.
Flores, Ralph : *See*—
Johnson, Donald D., Flores, and Vogel. 3,058,844.
Florey, Klaus G., J. Bernstein, A. R. Restivo, and H. L. Yale, to Olin Mathieson Chemical Corp. Basic derivatives of trifluoromethylphenothiazine compounds. 3,057,861, 10–9–62, Cl. 260—243.
Florida Brace Co. : *See*—
Monfardini, Louis P. 3,024,784.
Monfardini, Louis P. 3,042,026.
Florida Mfg. Corp. : *See*—
Moore, Arthur R. 3,027,894.
Florida Tile Industries, Inc. : *See*—
Lesnett, Frederick A., Jr., and Wenger. 3,044,138.
Florio, Michael J. Fluid flow measuring and dispensing apparatus. 3,028,997, 4–10–62, Cl. 222—20.
Floriot, Jacques : *See*—
Humbert, Michel, and Floriot. 3,015,633.
Flory, Darrell L. : *See*—
Kneisley, Russell E., Hypes, and Flory. 3,047,219.
Flory, Frank M., to Indian River Poultry Farms, Inc. Method of ventilating eggs. 3,037,479, 6–5–62, Cl. 119—1.
Floseal Corp. : *See*—
Phillips, Harry L., and Fain. 3,063,349.
Flötgen, Rudolf, and K. Kalb, to Licentia Patent-Verwaltungs- G.m.b.H. Method for producing mica layers for electrical insulation. 3,043,735, 7–10–62, Cl. 156—27.
Flotron, Paul E., to Cork Products Research and Development Corp. Process for manufacture of cork block and insulation. 3,055,057, 9–25–62, Cl. 18—48.
Flournoy, Frederick : *See*—
Berg, Leo J., and Flournoy. 3,067,896.
Flow Corp. : *See*—
Batteau, Dwight W. 3,026,363.
Flow Equipment Co., Inc. : *See*—
Bills, Lloyd W. 3,046,783.
Bilis, Lloyd W. 3,062,055.
Quesinberry, Robert S. 3,049,331.
Flow Measurements Corp. : *See*—
Schnoll, Nathan. 3,015,232.
Schnoll, Nathan. 3,020,760.
Flow Products, Inc. : *See*—
Arthur, Oscar F. 3,048,295.
Flower, Archibald T. Service attachment brackets for power lines. 3,022,033, 2–20–62, Cl. 248—300.
Flower, Archibald T. Nut with magnetically operated driving means. 3,060,786, 10–30–62, Cl. 85—32.

Flower, Archibald T. Spreader bars for conductor wires. 3,066,181, 11–27–62, Cl. 174—146.
Flower, Archibald T. Spreader and bridle for conductor wires. 3,066,182, 11–27–62, Cl. 174—146.
Flower, Archibald T., and P. Ganser. Method and means for attaching an anode to a continuous conductor. 3,060,259, 10–23–62, Cl. 174—84.
Flower, Robert A.: *See*—
Basim, Donald S., Flower, and McKay. 3,023,407.
Flowers, Ab: *See*—
Foote, Donald S., Flowers, and Hubbell. 3,048,503.
Flowers, Harold J., and J. Protz. Navigation instrument. 3,037,285, 6–5–62, Cl. 33—1.
Flowers, Henry F. Reinforced floor for railroad dump car. 3,055,317, 9–25–62, Cl. 105—422.
Flowers, Herbert R.: *See*—
Radcliffe, Nigel T., and Flowers. 3,055,547.
Flowers, Ralph G., W. H. Butt, and J. G. Howe, to General Electric Co. Composition comprising an epoxy resin, a polyvinyl acetal resin, and a polyacrylate resin, and an article coated therewith. 3,058,951, 10–16–62, Cl. 260—45.5.
Flowers, Richard L., to Phillips Petroleum Co. Elimination of abrasion of vell tubing by production fluid containing abrasive material. 3,034,912, 5–15–62, Cl. 166—243.
Floyd, Acey L,. Jr., to Dresser Industries, Inc. Two dimensional analog of a three dimensional phenomenon. 3,029,-018, 4–10–62, Cl. 235—61.6.
Floyd, Bobby W. Adjustable regulator for dampers. 3,016,762, 1–16–62, Cl. 74—527.
Floyd, Candon, to The Lodge & Shipley Co. Spherical contour slotting and shaping lathe. 3,064,510, 11–20–62, Cl. 82—12.
Floyd, Don E., and D. W. Glaser, to General Mills, Inc. Polyamide resin binder for printing inks. 3,037,871, 6–5–62, Cl. 106—26.
Floyd, Earl C., to Admiral Corp. Combined television receiver and sound system. 3,062,915, 11–6–62, Cl. 178—5.8.
Floyd, Frederick, to Ozonair Engineering Co. Ltd. Filters. 3,045,410, 7–24–62, Cl. 55—352.
Floyd, James K., to The Electric Storage Battery Co. Automatic battery discharge means. 3,017,570, 1–16–62, Cl. 324—29.5.
Floyd, James K., to The Electric Storage Battery Co. Transistor inverter-battery charger. 3,044,023, 7–10–62, Cl. 331—59.
Floyd, Joseph C.: *See*—
Beatson, Eric P., and Floyd. 3,049,473.
Floyd, Margit H. Ambulatory seating device. 3,057,638, 10–9–62, Cl. 280—79.2.
Fluckizer & Cie: *See*—
Spreter, Victor. 3,054,175.
Fluegel, Dale A., to Phillips Petroleum Co. Temperature stable transformer. 3,032,729, 5–1–62, Cl. 336—84.
Fluegel, Dale A., to Phillips Petroleum Co. Detector for sensing small rate of change signals. 3,050,253, 8–21–62, Cl. 235—183.
Fluegel, Dale A., to Phillips Petroleum Co. Voltage-sensitive capacitor bridge multiplier. 3,070,309, 12–25–62, Cl. 235—194.
Fluegel, Dale A., and E. D. Tolin, to Phillips Petroleum Co. Flow computer. 3,070,302, 12–25–62, Cl. 235—151.
Fluhr, Frederick R., to United States of America, Navy. Switching circuit having transient signal minimizing means. 3,052,850, 9–4–62, Cl. 328—101.
Fluhr, Frederick R., and D. J. McLaughlin, to United States of America, Navy. Position to voltage translator. 3,032,-609, 6–1–62, Cl. 178—18.
Fluid Mechanics, Inc.: *See*—
Gilmore, Samuel E. 3,027,911.
Fluidmaster, Inc.: *See*—
Holderith, Anton. 3,049,010.
Fluidwick Co., Inc.: *See*—
Abel, Martin L. 3,022,398.
Fluitman, Franciscus H. J.: *See*—
De Vries, Pieter, and Fluitman. 3,065,906.
Flumerfelt, William A., to The Columbus Auto Parts Co. Resilient steering linkage connector. 3,018,124, 1–23–62, Cl. 287—85.
Flumerfelt, William A., to The Columbus Auto Parts Co. Self-lubricating tie rod socket assembly. 3,062,572, 11–6–62, Cl. 287—90.
Flumerfelt, William A., to The Columbus Auto Parts Co. Joint with bearing member. 3,063,744, 11–13–62, Cl. 287—87.
Flumerfelt, William A., to Columbus Auto Parts Co. Self-locking threaded connecting member. 3,065,983, 11–27–62, Cl. 287—60.
Fluor Corp., The: *See*—
Kohl, Arthur L., and Fuller. 3,039,749.
Fluor Corp., Ltd., The: *See*—
Bochinski, Julius H. 3,046,307.
Bochinski, Julius H., Kohl, and Oliver. 3,049,563.
Kohl, Arthur L., Fuller, and Bailey. 3,031,173.
MacInnes, William F., and Schafer. 3,061,204.
Flury, Karl, to Defensor AG. Liquid atomizer. 3,044,752, 7–17–62, Cl. 261—29.
Flury, Karl, to Defensor A.G. Apparatus for producing an aerosol. 3,053,458, 9–11–62, Cl. 239—216.
Flusche, Paul P.: *See*—
Gawlik, Paul A. 3,034,339.
Fluskey, Edward E.: *See*—
Brueckner, Hubert U., Fluskey, and Werbyckyj. 3,019,701.
Flygts Pumpar, Aktiebolaget: *See*—
Englesson, Sixten. 3,018,925.
Flynn, Ben L., to Whiting Corp. Pulp washer and filter. 3,027,011, 3–27–62, Cl. 210—404.
Flynn, Ben L., to Whiting Corp. Sealing assembly. 3,056,-608, 10–2–62, Cl. 277—170.
Flynn & Emrich Co.: *See*—
Turner, James F., Bartman, and Smith. 3,057,309.
Flynn, Floyd W.: *See*—
Schiess, Norman C., Flynn, and Bjelland. 3,068,748.
Flynn, Frank M., to Seary Mfg. Co. Apparatus for separating a resilient plate from a stack thereof. 3,045,867, 7–24–62, Cl. 221—211.
Flynn, Frank M., to Seary Mfg. Co. Apparatus for mounting transparencies in transparency mounts. 3,067,805, 12–11–62, Cl. 156—443.
Flynn, George M., to Continental Can Co., Inc. Can body side seam soldering machine and method. 3,053,212, 9–11–62, Cl. 113—60.
Flynn, George M., to Continental Can Co., Inc. Jet fluxing apparatus. 3,059,613, 10–23–62, Cl. 113—95.
Flynn, Jac B., to Hills-McCanna Co. Variable output pump. 3,040,666, 6–26–62, Cl. 103—38.
Flynn, John H. Ribbon assembly for gas burners. 3,047,056, 7–31–62. Cl. 158—116.
Flynn, John H. Gas burner of high-velocity flame sheet type. 3,053,316, 9–11–62, Cl. 158—116.
Flynn, John H. High-velocity flame pilot burner of the internal spark-ignition type. 3,070,153, 12–25–62, Cl. 158—115.
Flynn, Joseph A., and H. H. Weiner. Electrical measuring system. 3,032,713, 5–1–62, Cl. 324—58.
Flynn, Joseph D. Burial Casket seal. 3,055,079, 9–25–62, Cl. 27—15.
Flynn, Joseph F., to Ex-Cell-O Corp. Mechanism for attaching handle to containers. 3,056,138, 10–2–62, Cl. 1—106.
Flynn, Michael, Mfg. Co.: *See*—
Gurniak, John. 3,041,680.
Flynn, Philip F.: *See*—
Dieter, William J., Schroeder, and Flynn. 3,045,617.
Flynn, Stanley F. Article support. 3,051,345, 8–28–62, Cl. 217—34.
Flynn, William, to Metal Edge Industries. Box making machine. 3,025,769, 3–20–62, Cl. 93—44.1.
Foa, Joseph V., to Research Corp. Method of energy exchange and apparatus for carrying out the same. 3,046,-752, 7–31–62. Cl. 60—35.6.
Foch, Pierre, to Charbonnages de France. Process of low and high temperature fluidized carbonization of coal. 3,043,752, 7–10–62, Cl. 202—9.
Focht, Frank T., and J. R. Sims, to Jersey Production Research Co. Handling of well equipment. 3,032,106, 5–1–62, Cl. 166—46.
Focht, John R., and J. C. Pizzurro, to Precision Valve Corp. Method and apparatus for forming directional and other indicia on valve operating buttons and caps for pressurized dispensers. 3,028,629, 4–10–62, Cl. 18—30.
Focht, Robert, to E. J. Lavino and Co. Method of joining refractory brick channels and hangers. 3,031,748, 5–1–62, Cl. 29—521.
Focht, Ronald E., to The Hobart Mfg. Co. Ticket printer. 3,021,988, 2–20–62, Cl. 226—58.
Fodrocl, Michael P.: *See*—
McCombs, Howard L., Fodroci, and Hawk. 3,040,715.
Foecking, Donald A., to Motorola, Inc. Squelch system. 3,027,454, 3–27–62, Cl. 250—20.
Foehr, Edward G., to California Research Corp. Oxidation inhibited mineral oil compositions. 3,018,248, 1–23–62, Cl. 252—37.
Foell, Theodore, Jr.: *See*—
Smith, Leland L., Foell, and Mendelsohn. 3,050,558.
Foerch, Francis X., to The Bendix Corp. Frequency control system. 3,060,366, 10–23–62, Cl. 322—32.
Foerster, George S., to The Dow Chemical Co. Magnesium-base alloy. 3,024,108, 3–6–62, Cl. 75—168.
Foerster, George S., to The Dow Chemical Co. Mg-si-zn extrusion alloy. 3,067,028, 12–4–62, Cl. 75—168.
Foerster, George S., and L. E. Rautiola, to The Dow Chemical Co. Magnesium-base alloy. 3,024,107, 3–6–62, Cl. 75—168.
Foerster, Hans-Joachim M., and F. G. Grabow, to Daimler-Benz Aktiengesellschaft. Lubricating system for control surfaces of a hydrostatic transmission. 3,040,672, 6–26–62, Cl. 103—162.
Foerster, Hans-Joachim M., and W. R. E. Hensel, to Daimler-Benz Aktiengesellschaft. Change-speed transmission. 3,067,632, 12–11–62, Cl. 74—759.
Fogal, Gordon L.: *See*—
Euker, Harold W., and Fogal. 3,067,684.
Fogarty, Charles P. Adjustable support mechanism for ear muffs and similar articles. 3,050,739, 8–28–62, Cl. 2—209.
Fogarty, Laurence E., to General Precision Inc. Servo function generator. 3,018,052, 1–23–62, Cl. 235—197.
Fogarty, Laurence E., to General Precision Inc. Analog computer for generating a power series expansion of a function. 3,022,009, 2–20–62, Cl. 235—193.
Fogarty, Laurence E., to General Precision, Inc. Flight computer for training apparatus. 3,039,205, 6–19–62, Cl. 35—12.

Fogarty, Laurence E., and E. G. Schwarm, to General Precision, Inc. Computation of dynamic pressure in a flight simulator. 3,028,090, 4–3–62, Cl. 235—184.
Fogden, Kenneth L., to Samson Cordage Works. Braided cord. 3,035,476, 5–22–62, Cl. 87—9.
Fogel, Carl C.: *See*—
Davis, James O., Fogel, and Palmer. 3,069,228.
Fogel, Robert L., and H. T. Suyematsu, to Hughes Aircraft Co. Non-reciprocal phase shifter and attenuator. 3,048,-801, 8–7–62, Cl. 333—31.
Fogelberg, Tenny R. Side delivery rotary excavator. 3,043,-035, 7–10–62, Cl. 37—190.
Fogg, Robert E., to E. I. du Pont de Nemours and Co. Dispensing apparatus. 3,052,376, 9–4–62, Cl. 222—43.
Fogle, Arnold B. Work of art in three dimension and method of making same. 3,046,686, 7–31–62, Cl. 41—22.
Fogle, Charles E.: *See*—
Faust, John P., Fogle, and Heying. 3,030,184.
Fogle, Harry C.: *See*—
Fogle, Jennings E. 3,015,160.
Fogle, Harry C. Adjustable false bottom for swimming pools. 3,041,631, 7–3–62, Cl. 4—172.
Fogle, Jennings E., ½ to H. C. Fogle. Scissors. 3,015,160, 1–2–62, Cl. 30—232.
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Foglia, Henry R., to International Business Machines Corp. Pulse producing circuit. 3,028,558, 4–3–62, Cl. 328—196.
Foglia, Sebastien, to Commissariat a l'Energie Atomique. Unloading device, particularly for fuel elements of nuclear reactors. 3,068,035, 12–11–62, Cl. 294—102.
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Deputy, Marshall P. 3,032,641.
Fogt, Thomas H.: *See*—
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Fogt, Thomas H., to General Motors Corp. Washing machine having a pivotally mounted prime moving system with belt tension adjusting means. 3,029,624, 4–17–62, Cl. 68—23.
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Barnes, James F., and Silversher. 3,044,498.
Folls Packaging Corp.: *See*—
Kauffeld, Don B. 3,029,997.
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Foin, Warren C.: *See*—
Demmer, William R., Foin, and Hartman. 3,058,659.
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Fokker, Herman, to North American Philips Co., Inc. Device for protecting thermo-dynamic engines. 3,050,933, 8–28–62, Cl. 60—24.
Fokkinga, Johan D., to Vereenigde Draadfabrieken, N.V. Apparatus for making wire spirals. 3,031,006, 4–24–62, Cl. 153—67.
Folds, Guy P., to Newport News Shipbuilding and Dry Dock Co. Expansion seal. 3,029,798, 4–17–62, Cl. 122—494.
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Foley, Eugene W., to Magnaflux Corp. System for inspecting bearing balls. 3,016,487, 1–9–62, Cl. 324—38.
Foley, Francis D., Jr., to Hughes Aircraft Co. Gallium plating and methods therefor. 3,061,528, 10–30–62, Cl. 204—45.
Foley, Frederic E. B., to United Medical Products Co., Inc. Suspension device for intravenous fluid supply containers. 3,048,360, 8–7–62, Cl. 248—337.
Foley, Gerard X. Book strap. 3,023,941, 3–6–62, Cl. 224—5.
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Foley Mfg. Co.: *See*—
Machovec, Fred J. 3,061,980.
Foley, Matthew J., and R. S. Burns, to Armco Steel Corp. Method of aligning and welding coil ends. 3,057,056, 10–9–62, Cl. 29—475.
Foley, Richard D., to The Dow Chemical Co. Slat expander roll. 3,042,989, 7–10–62, Cl. 26—64.
Foley, William M., Jr.: *See*—
Brouillette, Carl V., Foley, and McKennis. 3,025,159.
Folger, Philip M.: *See*—
Wheeler, Charles M., and Folger. 3,020,427.
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Crowley, Daniel J., Folkenroth, and Packard. 3,018,679.
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Folkers, Karl A.: *See*—
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Balkwill, John T., and Folkes. 3,037,833.
Folkierski, Andrzej: *See*—
Latham, Robert, Thompson, Sixsmith, Folkierski, and Pickering. 3,032,727.
Folkins, Hillis O.: *See*—
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Spendelow, Howard R., Jr., Folkman, and Allenbach.
Folkrod, Clinton B., to Kaiser Aluminum & Chemical Corp. Improvements in the method of making carbon anodes. 3,025,229, 3–13–62, Cl. 204—294.
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Foll, John V., and J. Bell, to Muirhead & Co. Ltd. Ship stabilization. 3,045,630, 7–24–62, Cl. 114—122.
Foll, William A.: *See*—
Hancik, Albin M. 3,037,529.
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Follett, Archie E., to The Chemstrand Corp. Activators for the polymerization of 2-pyrrolidone. 3,033,831, 5–8–62, Cl. 260—78.
Follett, Archie E., to Monsanto Chemical Co. Activators for the polymerization of 2-pyrrolidone. 3,042,659, 7–3–62, Cl. 260—78.
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Folley, Cranston W., to Saco-Lowell Shops. Universal driving joint. 3,057,174, 10–9–62, Cl. 64—17.
Follin, James W., Jr., to Research Corp. Electronic multiplier. 3,019,982, 2–6–62, Cl. 235—194.
Folmar, Arthur J., to International Business Machines Corp. Control for incremental drive for record feeding devices. 3,043,589, 7–10–62, Cl. 271—51.
Folse, Kenneth H., to Logetronics, Inc. Photographic developing apparatus. 3,036,497, 5–29–62, Cl. 88—24.
Folser, Karl: *See*—
Plasser, Franz, Theurer, and Folser. 3,064,428.
Folsom, George I., to Scott & Williams, Inc. Knitting machine. 3,026,694, 3–27–62, Cl. 66—13.
Folsom, Robert R., and J. D. Isaacs, to United States of America, Navy. Directional gamma ray detection unit. 3,047,721, 7–31–62, Cl. 250—83.3.
Folsom, William A.: *See*—
De Graffenried, Albert L., and Folsom. 3,020,786.
Foltz, Andrew, to Precision Paper Tube Co. Method of jacketing a capacitor and product. 3,040,385, 6–26–62, Cl. 18—59.
Foltz, Cecil R.: *See*—
Floren, Carl E., and Foltz. 3,066,908.
Foltz, George E.: *See*—
Kim, Franklin, Stevens, and Foltz. 3,046,255.
Fonash, Raymond L. Protective garment for astronauts employing sublimating salts. 3,032,772, 5–8–62, Cl. 2—2.1.
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Fonden, Per B., and K. O. T. Walander. Storing mechanism for airplane arresting nets. 3,058,703, 10–16–62, Cl. 244—110.
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Fondiller, Robert. Combination guide and position indicating arrangement for typewriters. 3,035,680, 5–22–62, Cl. 197—10.
Fondiller, Robert. Page-end signal device. 3,049,212, 8–14–62, Cl. 197—189.
Fong, Danny H. Woven rattan fabric. 3,062,244, 11–6–62, Cl. 139—424.
Fonken, Gunther S., to The Upjohn Co. 11β-hydroxy-5β-pregnane-3,20-dione bisoximes and the 11α-lower-alkyl derivatives thereof. 3,019,243, 1–30–62, Cl. 260—397.5.
Fonken, Gunther S., J. A. Hogg, and B. J. Magerlein, to The Upjohn Co. 11α-lower alkyl-11β,21-dihydroxy-4,17(20)-pregnadiene-3-ones and the 21-esters thereof. 3,031,475, 4–24–62, Cl. 260—397.45.
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Knudsen, Einer K. 3,051,798.
Fons, Leland S., and C. E. Franks, to United States Steel Corp. Method and apparatus for handling coils of wire. 3,064,828, 11–20–62, Cl. 214—8.
Fontaine, Antoine T. H. Cable terminal for ignition systems. 3,041,498, 6–26–62, Cl. 315—54.
Fontaine, Jacques, to Societe a Responsabilite Limitee Dite Sterimec. Means for applying a coated surface to textile tubing. 3,066,720, 12–4–62, Cl. 156—393.

Fontaine, Michel A. I., to Vibratechniques S.A. Vibrator. 3,030,079, 4–17–62, Cl. 259—1.

Fontaine, Robert R.: *See—*
Whitby, Clyde M., and Fontaine. 3,026,631.

Fontana, Beppino J.: *See—*
Bolt, Robert O., and Fontana. 3,052,738.

Fontana, Frank J.: *See—*
Kramcsak, Michael, Jr., and Fontana. 3 024,870.

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Fontana, Paolo. Inverting apparatus for stacked sheet material. 3,063,575, 11–13–62, Cl. 214—1.

Fontanella, Luigi: *See—*
Testa, Emilio, Fontanella, and Maffii. 3,028,378.
Testa, Emilio, Fontanella, and Maffii. 3,037,019.

Fontein, Freerk J., to Stamicarbon N.V. Process and apparatus for separating a mixture of particles according to size. 3,045,823, 7–24–62, Cl. 209—273.

Fontein, Freerk J., and B. S. Sieswerda, to Stamicarbon N.V. Apparatus for producing a smooth-surfaced body consisting of a granular material. 3,017,666, 1–23–62, Cl. 18—9.

Fontein, Freerk J., H. H. Dreissen, and H. F. Jennekens, to Stamicarbon N.V. Separating a mixture of solid particles of various sizes suspended in liquid. 3,037,629, 6–5–62, Cl. 209—254.

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Felsten, Benjamin. 3,051,336.

Food Saver Inc.: *See—*
Hensen, Raymond M., and Sailor. 3,053,223.

Food Systems, Inc.: *See—*
Hill, Edwin R. 3,061,352.

Foohey, William L., to E. I. du Pont de Nemours and Co. Process for preparing dimethyl 1,4-cyclohexanedicarboxylate. 3,027,398, 3–27–62, Cl. 260—468.

Fook, Cha. Wallet. 3,048,210, 8–7–62, Cl. 150—38.

Foord, Delbert C., to American Can Co. Container closure. 3,018,024, 1–23–62, Cl. 222—498.

Foos, Raymond A., and M. A. Hobin, to National Distillers and Chemical Corp. Molybdenum process. 3,053,614, 9–11–62, Cl. 23—14.

Foos, Raymond A., and H. Greenberg, to National Distillers and Chemical Corp. Process for recovering tantalum and niobium values from organic solutions. 3,065,046, 11–20–62, Cl. 23—18.

Foos, Raymond A., and E. P. Stambaugh, to National Distillers and Chemical Corp. Process for preparing chromium oxide. 3,065,065, 11–20–62, Cl. 106—300.

Foos, William A., to International Telephone and Telegraph Corp. Variable bandwidth intermediate frequency amplifier system. 3,040,268, 6–19–62, Cl. 330—126.

Foote, Charles E.: *See—*
Eades, John H. 3,062,289.

Foote, Daniel J.: *See—*
Stahl, Samuel, Foote, and Buchmann. 3,023,600.

Foote, Daniel J., and N. L. Berkowitz, to Master Lock Co. Dialing knob and escutcheon plate assemblies for permutation locker locks. 3,023,602, 3–6–62, Cl. 70—332.

Foote, Daniel J., and R. M. Buller, to Master Lock Co. Master key controlled permutation locks. 3,031,876, 5–1–62, Cl. 70—285.

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Foote, Donald S., A. Flowers, and J. P. Hubbell, to Crucible Steel Co. of America. Pickling apparatus and method. 3,048,503, 8–7–62, Cl. 134—9.

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Ribbens, Jacob J., Leete, and Foote. 3,022,595.

Foote, Francis S., Jr., and H. W. Le Claire, to Tab Products Co. Multiple purpose filing cabinet. 3,052,363, 9–4–62, Cl. 211—156.

Foote, Howard L., to General Dynamics Corp. Cost calculator (toll ticketing). 3,024,991, 3–13–62, Cl. 235—156.

Foote, James E., to Diamond National Corp. Food container. 3,040,949, 6–26–62, Cl. 229—2.5.

Foote Mineral Co.: *See—*
Bravo, Justo B., and Delano. 3,020,124.
Mathias, Joseph S. 3,021,210.

Foote, Richard W.: *See—*
Kask, Eugene. 3,067,677.

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Bilocq, Georges. 3,038,587.
Bilocq, Georges A. 3,040,861.
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Forbes, Ernest E., Jr. Projectile launching device. 3,015,991, 1–9–62, Cl. 89—1.7.

Forbes, Henry, H. van der Marel, and G. J. van den Berg, to Shell Oil Co. Liquid recovery from an originally vaporous mixture. 3,028,332, 4–3–62, Cl. 208—340.

Forbes, Henry, H. van der Marel, and G. J. van den Berg, to Shell Oil Co. Liquid recovery from gaseous stream. 3,054,745, 9–18–62, Cl. 208—340.

Forbes, Robert A. Weight lifting and supporting mechanism. 3,064,945, 11–20–62, Cl. 254—107.

Forbes, Samuel J.: *See—*
Scott, William J. 3,030,121.

Forbro Design Inc.: *See—*
Rosenfeld, Aaron, and Kupferberg. 3,028,538.
Rosenfeld, Aaron, and Kupferberg. 3,056,905.

Force, John B.: *See—*
Brennan, John B., and Force. 3,019,666.
Brennan, John B., and Force. 3,068,715.

Force, John W., Sr. Safety landing for moving sidewalk. 3,052,337, 9–4–62, Cl. 198—16.

Ford Alexander Corp., The: *See—*
Gieske, William R., and Berry. 3,033,114.

Ford, Arthur L.: *See—*
Baumbach, Harlan L., and Ford. 3,022,941.

Ford, Arthur W., to The English Electric Co, Ltd. Electric generating apparatus. 3,070,741, 12–25–62, Cl. 322—61.

Ford, Barton H.: *See —*
Ford, Michael J. and B. H. 3,025,908.
Ford, Michael J. and B. H. 3,042,112.

Ford, Barton H., ½ to International Paper Co., and ½ to The Stanley Works. Reinforced car closure. 3,025,907, 3–20–62, Cl. 160—368.

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Ford, Clarence A., ½ to John Brent & Co. Proprietary Ltd. Castor wheels. 3,040,370, 6–26–62, Cl. 16—31.

Ford, David W., to Collins Radio Co. Load protective circuit. 3,024,391, 3–6–62, Cl. 317—149.

Ford, James A., Jr. Garment. 3,029,441, 4–17–62, Cl. 2—80.

Ford, Ernest C., Jr.: *See—*
Brandner, John D., and Ford. 3,016,393.

Ford, Fred A., to Standard Oil Co. Preparation of mercaptans and sulfides. 3,045,053, 7–17–62, Cl. 260—609.

Ford, Frederick D.: *See—*
Culverson, Warren D., Ford, Huebsch, and Skudre. 3,052,767.

Ford, Harold H., to Emerson-Pryne Co. Combined electric heater and light fixture. 3,025,379, 3–13–62, Cl. 219—34.

Ford, Harrell T.: *See—*
Boyer, Ernest W., Ford, and McKelvey. 3,050,622.

Ford, Howard, & Co. Ltd.: *See—*
Gerard, Paul. 3,063,554.

Ford, Hugh, and A. Cameron. Rolling mills for rolling metal sheet and strip. 3,064,509, 11–20–62, Cl. 80—56.

Ford, James L., to Westinghouse Electric Corp. Electrical apparatus having a coating consisting of resinous polymeric epoxide containing finely divided aluminum oxide trihydrate and resinous polyamide. 3,044,900, 7–17–62, Cl. 117—132.

Ford, James O. Crank shaft oiling device. 3,037,583, 6–5–62, Cl. 184—11.

Ford, Marion D., to Callery Chemical Co. Purification of pentaborane-9 by distillation in the presence of a Lewis acid. 3,032,480, 5–1–62, Cl. 202—57.

Ford, Michael J.: *See—*
Ford, Barton H. and M. J. 3,028,981.

Ford, Michael J., ½ to International Paper Co., and ½ to The Stanley Works. Grain car door structure. 3,021,897, 2–20–62, Cl. 160—114.

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Aldred, John L., Jr. 3,015,497.
Allison, William D. 3,029,091.
Artman, Robert A., Root, and Turner. 3,017,115.
Baisch, Earl R. 3,022,326.
Bajer, Jacques, and Cuskie. 3,061,301.
Barton, David W., and Elwell. 3,061,036.
Bartson, Lester J., and McAnulty. 3,017,267.
Batdorf, John Q. 3,016,722.
Batley, George C. 3,028,157.
Batley, George C. 3,042,953.
Baumhart, Donald H. 3,026,432.
Belsky, Charles. 3,052,459.
Belsky, Charles. 3,067,448.
Belts, Lester L. 3,052,175.
Berno, Harmond E. 3,034,600.
Bliss, Alphonse J. 3,042,394.
Bliven, Charles V. 3,041,062.
Bookout, Charles C., Sattavara, and Taylor. 3,023,579.
Bookout, Charles C., and Taylor. 3,065,813.
Booth, Harvey J., Ernest, and Fostey. 3,059,623.
Bozimowski, Mitchell S., and Tamagne. 3,037,455.
Bright, Wilfred. 3,022,993.

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Buland, Robert N., Cooper, and Margolis. 3,024,994.
Burby, Robert W., and Merriam. 3,028,514.
Burby, Robert W., and Merriam. 3,041,488.
Collins, Jack D. 3,046,806.
Cook, Ernest F. 3,022,681.
Crampton, Peter, and Crowe. Re. 25,168.
Daniel, Roger P. 3,035,231.
Davis, William E. 3,016,721.
De Corte, Michael A., and Bird. 3,022,631.
Dinger, Frederick R. 3,054,262.
Duesenberg, Denny D. 3,062,596.
Duffy, James J. 3,022,676.
Duffy, James J. 3,048,184.
Elwell, John R. 3,062,434.
England, Richard E., and McCullough. 3,017,484.
English, Herdis G., and Schulz. 3,049,028.
Fitch, Merle E., and Warnick. 3,062,988.
Fordyce, Maurice E. 3,037,596.
Fredericks, Robert H. 3,047,324.
Fredericks, Robert H., and Daniel. 3,016,764.
Freer, John E., and Thibodeau. 3,041,484.
Frey, Stuart M. 3,052,496.
Galanick, Alexander H. 3,045,431.
Galla, Stephen J. 3,062,584.
General, Norman T., and Liang. 3,054,488.
Grenier, Francis E. 3,022,644.
Haddad, Charles. 3,021,151.
Haddad, Charles. 3,037,788.
Harms, William J., and Leininger. 3,059,962.
Hawver, Roy, and Jamieson. 3,052,493.
Hintzen, Heinz. 3,061,329.
Hooven, Frederick J. 3,052,313.
Hoppe, Lewis T., and Makowski. 3,059,964.
Howes, Benjamin T., and Swatman. 3,062,497.
Iriand, Max J., and Lindberg. 3,017,536.
Irland, Max J., and Turner. 3,054,697.
Jandasek, Vladimir J. 3,068,974.
Jay, David J., and Peithman. 3,055,312.
Jensen, Arvid E. 3,035,518.
Krahn, Vincent F. 3,023,560.
Kramer, Clarence F. 3,033,304.
Kurz, Alvin M., and Van Wicklin. 3,016,710.
Lapinski, Theodore F. 3,033,607.
Lawser, John J. 3,017,540.
Lawser, John J. 3,017,541.
Liverence, Howard G. 3,063,731.
Madge, Joseph G., and Walker. 3,048,214.
Mazur, Mitchell. 3,031,904.
McIntyre, Joseph H. 3,060,896.
McKeon, Charles E., and Richey. 3,015,199.
Merriam, Frank R., Jr. 3,062,966.
Miller, Raymond J., and Stevenson. 3,023,818.
Moore, Charles D. 3,032,370.
Muller, George H., and Veraldi. 3,033,588.
O'Donnell, John F., and Richey. 3,048,443.
Osgood, Bernhard O. P. 3,040,595.
Oster, Thomas H. 3,054,903.
Pigman, Marcus E. 3,062,317.
Pratt, Norman F. 3,046,781.
Price, William R. 3,066,952.
Pulleyblank, Thomas H. 3,054,137.
Richey, Clarence B., and McKeon. 3,023,559.
Richey, Clarence B., St. Clair, and Smith. 3,038,544.
Rodak, Joseph J. 3,021,442.
Ruhl, John H., and Wahl. 3,032,350.
Sanderson, Robert W., Purchis, and Payne. 3,028,716.
Schmatz, Duane J. 3,024,103.
Schulz, George W. 3,032,049.
Schulz, George W. 3,043,322.
Skay, Frank. 3,054,871.
Skuba, Witold K. 3,043,150.
Smith, Alfred R. 3,044,281.
Smith, Raymond P. 3,054,641.
Spurlin, William G. 3,015,248.
Swatman, Ivan M. 3,045,966.
Swatman, Ivan M. 3,067,981.
Towns, Truman W. 3,016,990.
Vanderberg, Lawrence J. 3,052,841.
Wagner, Pierce W. 3,043,632.
Waldron, Ralph B. 3,043,120.
Wanlass, Cravens L. 3,060,410.
Wanlass, Cravens L. 3,061,820.
Webb, Lester I. 3,032,864.
Westerdale, Maurice M. 3,054,634.
White, Theodore Z., and Thorpe. 3,051,450.
Wilson, Raymond W., and Cahow. 3,035,645.
Woods, Elvin L. 3,056,118.
Woods, Elvin L. 3,060,321.
Woods, Stephen. 3,062,231.
Wyman, Chester F. 3,062,331.
Zackay, Victor F., and Heimerdinger. 3,068,094.

Ford, Thomas E.: *See*—
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Ford, William M. Electrical resistance-type heater. 3,039,071, 6–12–62, Cl. 338—294.

Fordeck, William A.: *See*—
Monda, Steven M., and Fordeck. 3,033,955.

Fordyce, David B., F. J. Glavis, and S. Melamed, to Rohm & Haas Co. Dewatering aqueous suspensions with quaternized dialkylaminoalkyl acrylates or methacrylates. 3,023,162, 2–27–62, Cl. 210—54.

Fordyce, Homer E., and D. R. Baker, to The Marley Co. Suspension structure for cooling tower fill assembly. 3,063,688, 11–13–62, Cl. 261—108.

Fordyce, Homer E., and H. A. Shryock, to The Marley Co. Eliminator structure for cooling towers. 3,065,587, 11–27–62, Cl. 55—442.

Fordyce, Maurice E., to Ford Motor Co. Trim panel fastener. 3,037,396, 6–5–62, Cl. 189—88.

Fore, Beaser G. Illuminated fishing rods. 3,017,499, 1–16–62, Cl. 240—6.4.

Foregger Co., Inc., The: *See*—
Everett, Hazen F. 3,037,504.
Everett, Hazen F. 3,039,399.
Everett Hazen F., 3,049,122.

Foreman, Arnal B., Jr., to Houston Oil Field Material Co., Inc. Releasing washover outside cutter. 3,056,453, 10–2–62, Cl. 166—55.6.

Foreman, Clayton E. Process for cleaning athletic uniforms. 3,063,785, 11–13–62, Cl. 8—137.

Foreman, Harry D.: *See*—
Chall, Harold J., and Foreman. 3,055,579.

Foreman, Henry C. Three-dimensional display device. 3,057,095, 10–9–62, Cl. 40—124.1.

Foreman, John H.: *See*—
Beyer, John H., Foreman, and Parks. 3,031,371.

Foreman, Kenneth S. Two-stage master cylinder construction. 3,032,996, 5–8–62, Cl. 60—54.6.

Foreman, Robert W.: *See*—
Callahan, James L., Foreman, and Ventch. 3,044,966.
Idol, James D., Jr., Callahan, and Foreman. 3,021,366.

Foreman, William T., and C. H. Shaw, to Baird-Atomic, Inc. Alkali metal ultraviolet filter. 3,015,253, 1–2–62, Cl. 88—106.

Forenoost Dairies, Inc.: *See*—
Moulthrop, Maurice J., and Schmid. 3,057,486.
Peebles, David D. 3,052,559.
Peebles, David D., and Clary. 3,062,665.
Schmid, Ulrich J. 3,069,823.
Shields, John B. 3,057,727.

Forestier, Harold R. L. de Smitzer, and M. C. Gross, to Bell & Howell Co. Vacuum brake for exposure device. 3,060,827, 10–30–62, Cl. 95—76.

Forestiere, Jasper A. Method of using testing containers. 3,036,894, 5–29–62, Cl. 23—230.

Forgacs, Chaim: *See*—
Matz, Reuven, Forgacs, and Perlmutter. 3,029,196.

Forge, Charles O., to Hewlett-Packard Co. Transistor amplifiers having low input impedance. 3,040,265, 6–19–62, Cl. 330—28.

Forges & Acieries de Dilling, Societe Anonyme des: *See*—
Leclercq, Paul. 3,030,095.

Forges et Ateliers de Constructions Electriques de Jeumont: *See*—
Heidmann, Leon. 3,043,254.

Forges et Ateliers du Creusot, Societe des: *See*—
Bonzon, Maurice. 3,051,266.
Fieux, Jean. 3,044,346.
Fieux, Jean. 3,051,047.
Scavini, Jean. 3,053,104.

Forgrove Machinery Co. Ltd., The: *See*—
Wilson, Peter G. 3,045,404.

Fork, Frank W., to H. H. Robertson Co. Electrical connector enclosure. 3,023,265, 2–27–62, Cl. 174—48.

Fork, Frank W., to H. H. Robertson Co. Electrical fittings base cup. 3,053,013, 9–11–62, Cl. 50—127.

Fork, Frank W., to H. H. Robertson Co. Electrical fittings base cup. 3,053,014, 9–11–62, Cl. 50—127.

Fork, Frank W., to H. H. Robertson Co. Closure assembly. 3,063,592, 11–13–62, Cl. 220—3.8.

Forkel, William C., to L. P. Frieder. Mask retaining device for a helmet. 3,065,747, 11–27–62, Cl. 128—146.

Forkner, John H., to The Pillsbury Co. Food product and method of manufacture. 3,020,164, 2–6–62, Cl. 99—134.

Forkner, John H., to The Pillsbury Co. Cactus product and method. 3,057,736, 10–9–62, Cl. 99—204.

Forkner, John H., to The Pillsbury Co. Cactus method and product. 3,057,737, 10–9–62, Cl. 99—204.

Forkner, John H., to The Pillsbury Co. Cactus product and method. 3,057,738, 10–9–62, Cl. 99—204.

Forkner, John H., to The Pillsbury Co. Method for dehydrating food products. 3,057,739, 10–9–62, Cl. 99—204.

Forliti, Paul, to Koppers Co., Inc. Process and apparatus for improving the heat distribution in a top and under fired horizontal coke oven battery. 3,056,732, 10–2–62, Cl. 202—12.

Formacel, Inc.: *See*—
Christman, Charles W. 3,017,971.

Formaini, Robert L., and G. C. Ellis, to Allied Chemical Corp. Production of biuret. 3,057,918, 10–9–62, Cl. 260—553.

Forman, David: *See*—
Forman, Harold M. and D. 3,058,273.

Forman, David I. Reversible work glove. 3,063,057, 11–13–62, Cl. 2—161.

Forman, Edward W.: *See*—
Albert, Donald J., and Forman. 3,062,268.

Forman, Ella M. Stack-a-pie rack. 3,057,671, 10–9–62, Cl. 312—128.

Forman, Harold M., and D. Forman, to Formatron, Inc. Method and apparatus for packaging. 3,058,273, 10–16–62, Cl. 53—38.

Forman, Jan, to Arnoux Corp. Self-excited magnetron oscillator with frequency varying means. 3,029,397, 4–10–62, Cl. 331—90.

Forman, Jan, to Burroughs Corp. Thermoelectric generator. 3,056,912, 10–2–62, Cl. 322—2.
Forman, Lawrence E., to The Firestone Tire & Rubber Co. Ketone polysulfides. 3,038,883, 6–12–62, Cl. 260—63.
Forman, Louis: *See* Hargens, Charles W., and Smith. 3,054,296.
Forman, Michael L. Wedging tool. 3,021,112, 2–13–62, Cl. 254—100.
Forman, Ralph, to Union Carbide Corp. Surface field effect transistor amplifier. 3,040,266, 6–19–62, Cl. 330—35.
Formanek, Robert J., to The B. F. Goodrich Co. Tubeless tire containing a non-wicking finishing strip and method of making the same. 3,028,902, 4–10–62, Cl. 152—362.
Formatron, Inc.: *See* Forman, Harold M. and D. 3,058,273.
Formia, Antonio, to Fiat Societa per Azioni. Cylinder head for internal combustion reciprocating engines. 3,045,655, 7–24–62, Cl. 123—30.
Formica Corp.: *See* Emily, Avis E., Jr., and Arata. 3,050,434.
Isaacson, Larry Z. 3,044,895.
Malashevitz, Alex J. 3,036,028.
Malashevitz, Alex J., and Merkt. 3,033,823.
Forming Machine Co. of America, Inc., The: *See* Simpson, Alvan D. 3,021,255.
Formsprag Co.: *See* Lund, Johan. 3,034,622.
Moule, Rex E., and Fairbanks. 3,025,939.
Zlotek, Thaddeus F. 3,049,206.
Fornasieri, Eraldo: *See* Marullo, Gerlando, and Fornasieri. 3,030,193.
Fornell, Bertil S.: *See* Fornell, David E. and B. S. 3,031,189.
Fornell, David E. and B. S. Collating machine pocket drum. 3,031,189, 4–24–62, Cl. 271—86.
Fornes, Gaston G., to Institute of Textile Technology. Apparatus for winding packages of roving. 3,021,664, 2–20–62, Cl. 57—99.
Fornetti, Theodore B. Baby chair. 3,059,965, 10–23–62, Cl. 297—174.
Forney, Bill E. Fastener. 3,027,615, 4–3–62, Cl. 24—116.
Forney, Ferdinand C. Device for projecting moving message. 3,044,353, 7–17–62, Cl. 88—27.
Forney, Jack D. Wall inlet for vacuum system. 3,036,170, 5–22–62, Cl. 200—61.6.
Forney, Robert C., and A. B. Hurt, Jr., to E. I. du Pont de Nemours & Co. Viscosity determination. 3,036,214, 5–22–62, Cl. 250—43.5.
Forni ed Impianti Industriali Ingg de Bartolomeis, S.p.A.: *See* De Bartolomeis, Remo. 3,050,811.
Forrer, Homer W., to The Mead Corp. Article carrier. 3,017,054, 1–16–62, Cl. 220—113.
Forrer, Homer W., to The Mead Corp. Paperboard carton structure incorporating cushioning means. 3,028,954, 4–10–62, Cl. 206—65.
Forrer, Homer W. to The Mead Corp. Container sealing structure. 3,033,435, 5–8–62, Cl. 229—7.
Forrer, Homer W., to The Mead Corp. Reinforced corner construction for collapsible containers. 3,034,698, 5–15–62, Cl. 229—32.
Forrer, Homer W., to The Mead Corp. Paperboard carrier. 3,035,692, 5–22–62, Cl. 206—65.
Forrer, Homer W., to The Mead Corp. Container. 3,045,888, 7–24–62, Cl. 229—7.
Forrer, Homer W., and P. J. Wood, to The Mead Corp. Paperboard panel securing means and carton structure incorporating same. 3,064,877, 11–20–62, Cl. 229—45.
Forrer, Max P., to General Electric Co. Amplitude determined microwave logic circuit. 3,037,168, 5–29–62, Cl. 328—94.
Forrer, Max P., and V. O. Met, to General Electric Co. Wave-guide balanced modulator. 3,046,497, 7–24–62, Cl. 332—43.
Forrest, Harry D.: *See* Bingham, Robert E., Forrest, Hanlon, and Hutson. 3,062,759.
Forrest, John W., to Acton Laboratories, Inc. Constant velocity ratio coupling. 3,063,264, 11–13–62, Cl. 64—31.
Forrest, John W., to Acton Laboratories, Inc. Constant velocity ratio coupling for rotatable shafts. 3,066,502, 12–4–62, Cl. 64—15.
Forrester, Clive B. Line winding device. 3,045,943, 7–24–62, Cl. 242—84.43.
Forrester, Clyde: *See* Paus, Robert L., and Forrester. 3,016,097.
Forrester, Clyde, and R. L. Paus, to Ansul Chemical Co. Fire extinguisher construction. 3,061,014, 10–30–62, Cl. 169—31.
Forrester, Elza C. Door alarms. 3,029,425, 4–10–62, Cl. 340—274.
Forrester, Gilbert: *See* Grant, Clyde P., Forrester, and Smith. 3,037,381.
Forrester, Gilbert, to S. D. Warren Co. Sheet delivery system. 3,054,613, 9–18–62, Cl. 271—79.
Forrester, Jay W., W. M. Pease, J. O. McDonough, and A. K. Susskind, to J. T. Parsons. Numerical control servo-system. 3,069,608. 12–18–62, Cl. 318—162.
Forsberg, Karl V. Packaging machine feed apparatus. 3,031,815, 5–1–62, Cl. 53—191.
Forsblad, Ingemar B.: *See* Walker, Bradford H., and Forsblad. 3,057,884.
Forschepiepe, Fritz. Load holding device for fork lift trucks. 3,063,587, 11–13–62, Cl. 214—750.
Forschungs Anstalt fur Mechanik: *See* Hasenfratz, Willi 3,068,782.
Forschungszentrums der Luftfahrtindustrie: *See* Wolf, Erich, and Eulitz. 3,054,577.
Forse, Harry D. Trousers top finisher. 3,055,564, 9–25–62, Cl. 223—73.
Forsgard, Frederick C., to E. I. du Pont de Nemours and Co. Photographic gelatin-N-vinyllactam silver halide emulsions containing phenolic antifoggants. 3,043,697, 7–10–62, Cl. 96—109.
Forsness, Gilman R., Jr. Pressure contact assembly for electric appliances. 3,025,383, 3–13–62, Cl. 219—13.
Forss, Fritz V., and R. F. Weinig, to Wincharger Corp. Control system for prime-mover dynamo plants. 3,070,705, 12–25–62, Cl. 290—40.
Forss, John E.: *See* Sandis, George G., Parks, and Forss. 3,053,966.
Forssell, Harry, to Allmanna Svenska Elektriska Aktiebolaget. Means for reducing the harmonic currents in a static converter plant. 3,038,134, 6–5–62, Cl. 332—79.
Forster, Carl F., and A. P. Roensch, to General Electric Co. Brush apparatus. 3,064,291, 11–20–62, Cl. 15—21.
Forster, Emil: *See* Grünke, Erich. 3,042,082.
Grunke, Erich. 3,053,206.
Forster, Gebruder: *See* Forster, Jakob, and Grünke. 3,020,865.
Grunke, Erich. 3,053,206.
Forster, Gerald L., and M. H. Trower, to Lever Brothers Co. Blast tunnels. 3,024,623, 3–13–62, Cl. 62—380.
Forster, Gerhard: *See* Eisele, Karl L., and Forster. 3,056,927.
Suhrmann, Robert, and Forster. 3,047,656.
Förster, Gerhard, to North American Philips Co., Inc. Circuit arrangement to derive a control-voltage. 3,061,787, 10–30–62, Cl. 328—92.
Forster, Gerhard, O. Hilke, and H. Ganss, to North American Philips Co., Inc. Television-receiving circuit arrangement. 3,037,565, 6–5–62, Cl. 178—7.5.
Forster, Jakob: *See* Grunke, Erich. 3,053,206.
Forster, Jakob, and E. Grünke, to Gebr. Forster. Sewing machine for producing variable stitches. 3,020,865, 2–13–62, Cl. 112—159.
Forster, John H.: *See* Ciccolella, David F., Forster, and Rulison. 3,067,485.
Forster, Lloyd M. Automotive vehicle power brake employing power steering pump pressure. Re. 25,162, 4–17–62, Cl. 60—54.5.
Forster, Lloyd M. Continuously variable transmission and automatic control. 3,044,316, 7–17–62, Cl. 74—472.
Forster, Walter R., to Westinghouse Air Brake Co. Pulsation dampener device. 3,063,470, 11–13–62, Cl. 138—30.
Forster, Warren S.: *See* Coleman, Ralph A., Arthen, Milionis, and Forster. 3,057,921.
Hardy, William B., Forster, and Hosler. 3,049,509.
Forster, Wilhelm: *See* Gerlach, Martin, and Forster. 3,015,685.
Forsthoff, William E., and E. J. O'Neill, to Syracuse Supply Co. Selective conveyor system. 3,023,878, 3–6–62, Cl. 198—38.
Forstner, Egon, and R. Binder, to Dr.-Ing. h.c.F. Porsche, K.G. Air-cooled multi-cylinder internal combustion engine. 3,017,943, 1–23–62. Cl. 180—54.
Forstner, Inc.: *See* Hanlein, Wilfred F. 3,041,855.
Forsvarets fabriksstyrelse (Directorate of Defence Factories): *See* Sundström, John N. E. 3,023,674.
Forsyth, Albert J. C. Liquid dispenser. 3,024,946, 3–13–62, Cl. 222—41.
Forsyth, Bruce E., and M. P. Prater, to International Business Machines Corp. Manifold record assembly. 3,055,681, 9–25–62, Cl. 282—22.
Forsyth, Emil J., to Mathews Conveyor Co. Method and apparatus for stacking articles. 3,059,787, 10–23–62, Cl. 214—6.
Forsyth, George E., to Rohm & Haas Co. Polyester resins. 3,051,679, 8–28–62, Cl. 260—40.
Forsyth, Peter A., to Her Majesty the Queen in the right of Canada as represented by the Minister of National Defence. Beyond-the-horizon communication system utilizing signal strength controlled scatter propagation. 3,054,895, 9–18–62, Cl. 250—6.
Forsythe, Ronald S. Method of repairing metal castings. 3,066,400, 12–4–62, Cl. 29—402.
Forte-Fairbairn Inc.: *See* Breen, Stanley. 3,025,465.
Breen, Stanley. 3,028,548.
Forte, Francis C. Hand wrestling apparatus. 3,019,019, 1–30–62, Cl. 272—81.
Forte, Willis B., and J. W. Kendall, Jr., to Eitel-McCullough, Inc. Electron tube and socket therefor. 3,028,516, 4–3–62, Cl. 313—251.
Fortenbaugh, Robert B.: *See* Vartanian, Richard D., and Fortenbaugh. 3,052,599.
Vartanian, Richard D., and Fortenbaugh. 3,052,600.

Fortescue, Peter, and D. Nicoll, to United States of America, Atomic Energy Commission. Reactor control. 3,031,397, 4–24–62, Cl. 204—193.2.
Fortescue, Peter, and G. E. Lockett, to United Kingdom Atomic Energy Authority. Gas cooled power reactors. 3,034,976, 5–15–62, Cl. 204—193.2.
Fortescue, Peter, and G. E. Lockett, to United Kingdom Atomic Energy Authority. Fuel elements for nuclear reactors. 3,039,947, 6–19–62, Cl. 204—193.2.
Fortess, Fred, and W. J. Myles, to Celanese Corp. of America. Textile treatment. 3,016,280, 1–9–62, Cl. 8—59.
Forth, Frank F.: *See*—
Merritt, Willie M., and Forth. 3,051,126.
Forth, Murray W.: *See*—
Morrison, Charles S., and Forth. 3,043,418.
Forth, Murray W., W. M. Roll, and G. W. Jenkins, to Deere & Co. Material processing machine. 3,052,192, 9–4–62, Cl. 107—14.
Fort Howard Paper Co.: *See*—
Dahlin, Bernard A. 3,059,982.
Dahlin, Bernard A., Rademacher, and Filipowicz. 3,045,885.
Filipowicz, Edwin A. 3,054,546.
Forthun, Stanley A., to Bioscillator, Inc. Bioscillator. 3,030,950, 4–24–62, Cl. 128—44.
Fortier, André. Pneumatic gauge. 3,046,778, 7–31–62, Cl. 73—37.5.
Fortier, André. Pneumatically operated control devices. 3,047,234, 7–31–62, Cl. 236—87.
Fortin, Chester H., to Fortin Plastics, Inc. Water ski. 3,027,775, 4–3–62, Cl. 9—310.
Fortin, Conrad J., to Watco, Inc. Water treatment device. 3,038,495, 6–12–62, Cl. 137—559.
Fortin, Eugene G.: *See*—
Sacco, Joseph J., Jr., and Fortin. 3,061,546.
Fortin, Eugene G., to Radio Corp. of America. Ferromagnetic ferrite and process of preparing same. 3,039,962, 6–19–62, Cl. 252—62.5.
Fortin Plastics, Inc.: *See*—
Fortin, Chester H. 3,027,575.
Fortis, John C. Portable rotisserie. 3,059,568, 10–23–62, Cl. 99—340.
Fortman, William K., to General Precision, Inc. Acoustic generator and shock wave radiator. 3,064,619, 11–20–62, Cl. 116—137.
Fortman, William K., to Astrosonics, Inc. Apparatus for the acoustic treatment of liquids. 3,070,313, 12–25–62, Cl. 239—102.
Fortna, Henry F.: *See*—
Ullman, Robert, Fortna, Middleton, Schwalm, and Tritt. 3,023,415.
Ullman, Robert, Fortna, Middleton, Schwalm, and Tritt. 3,066,826.
Fortnam, George A., to Landers, Frary & Clark. Hair dryer hood. 3,064,362, 11–20–62, Cl. 34—99.
Fortney, Grant S. Waste condensation tube and stoplight warning device. 3,016,888, 1–16–62, Cl. 123—119.
Fort Orange Paper Co.: *See*—
Metzger, Henry L. 3,037,679.
Fortuna, Anton J. Illuminated optical device. 3,060,308, 10–25–62, Cl. 240—6.4.
Fortuna Foundations, Inc.: *See*—
Murdock, Benjamin. 3,059,647.
Fortuna, Frank and J. M. Bottle with liquid dispenser. 3,057,500, 10–9–62, Cl. 215—21.
Fortuna, Joseph M.: *See*—
Fortuna, Frank and J. M. 3,057,500.
Fortuna-Werke Spezialmaschinenfabrik A.G.: *See*—
Braun, Dieter. 3,028,743.
Braun, Dieter. 3,068,734.
Haeker, Kurt, and Köhl. 3,028,742.
Fortune, Donald A. Fire resistant envelope. 3,066,847, 12–4–62, Cl. 229—68
Fortune, James D., 50% to S. A. Smith. Drive lock spike. 3,025,003, 3–13–62, Cl. 238—372.
Fortune, Raymond L.: *See*—
Davidson, John T., Georgen, and Fortune. 3,044,694.
Fort Wayne Metals, Inc.: *See*—
Glaze, Ardelle. 3,056,432.
Fort Wayne Tool & Die Inc.: *See*—
Nill, Richard G., and Eminger. 3,025,008.
Forwald, Haakon, to Allmanna Svenska Elektriska Aktiebolaget. Latch-open mechanism for air blast circuit breaker. 3,047,697, 7–31–62, Cl. 200—148.
Forwald, Haakon. Extinguishing chamber for oil circuit breaker. 3,048,683, 8–7–62, Cl. 200—150.
Forwald, Haakon, to Allmänna Svenska Elektriska Aktiebolaget. High voltage oil circuit breaker. 3,056,873, 10–2–62, Cl. 200—150.
Forward, Eugene. Method of and means for forming hinge seats. 3,038,509, 6–12–62, Cl. 144—27.
Forward, Frank A.: *See*—
Nashner, Sydney, and Forward. 3,034,864.
Forward, Frank A., and I. H. Warren, to Eldorado Mining and Refining Ltd. Production of uranium dioxide. 3,042,486, 7–3–62, Cl. 23—14.5.
Forward, Philip: *See*—
Scragg, Frederick, and Forward. 3,029,591.
Forward, Robert W.: *See*—
Mathues, Thomas O., Beck, Davis, and Forward. 3,042,137.
Fosbrook, Geoffrey A., Sr. Materials handling cart. 3,015,494, 1–2–62, Cl. 280—33.99.
Fosburg, Philip L.: *See*—
Duncan, Robert B., and Fosburg. 3,063,516.
Foshee, Clarence B., and J. A. McCauley. Tree clearing attachment for tractor. 3,020,694, 2–13–62, Cl. 56—26.
Foss, Burdette W.: *See*—
Wright, George W., and Foss. 3,047,011.
Wright, George W., and Foss. 3,052,378.
Foss, Frederic, and R. L. Haug, to International Business Machines Corp. Dual feed high speed lister. 3,063,366, 11–13–62, Cl. 101—93.
Foss, Frederic A., to International Business Machines Corp. Navigation computer. 3,018,964, 1–30–62, Cl. 235—186.
Foss, Frederic A., to International Business Machines Corp. Electrical switching apparatus. 3,038,657, 6–12–62, Cl. 235—61.6.
Foss, Harry A.: *See*—
Bireley, Frank W., and Foss. 3,017,821.
Foss, George J., and E. W. Ellemann, to Anchor Hocking Glass Corp. Overfilled container detector and reject apparatus. 3,053,387, 9–11–62, Cl. 209—90.
Foss, George J., and D. D. Acton, to Anchor Hocking Glass Corp. Closure cap and method of making same. 3,062,396, 11–6–62, Cl. 215—40.
Foss, Rene N., to United States of America, Navy. Electrical power supply. 3,038,112, 6–5–62, Cl. 321—18.
Fossa, Joseph, to United Shoe Machinery Corp. Upper unloading and stacking device. 3,024,481, 3–13–62, Cl. 12—1.
Fossey, Melba M. Fitting garment. 3,034,216, 5–15–62, Cl. 33—15.
Fossier, Mike W.: *See*—
Youngren, Fred R., Fossier, and Howe. 3,063,654.
Fossil Fuels, Inc.: *See*—
Schroeder, Wilburn C. 3,030,297.
Foster, Allan D., to Almor Corp. Shelf construction. 3,015,400, 1–2–62, Cl. 211—183.
Foster, Benjamin Co.: *See*—
Steltz, Irvin J., and Young. 3,053,781.
Foster, Benton. Apparatus for automatically flushing a toilet bowl or the like. 3,056,143, 10–2–62, Cl. 4—249.
Foster, Alf. Vortex sustained aircraft. 3,041,010, 6–26–62, Cl. 244—12.
Foster, Boutwell H., to United States Rubber Co. Armored housing fabric. 3,061,839, 11–6–62, Cl. 2—2.5.
Foster, Boutwell H., and N. Haddad, to United States Rubber Co. Combined carpet and spacer fabric. 3,015,149, 1–2–62, Cl. 28—78.
Foster, Christopher J. Bilge block gear for dry docks. 3,015,214, 1–2–62, Cl. 61—66.
Foster, Dale K. Apparatus for supporting sheets. 3,058,572, 10–16–62, Cl. 198—134.
Foster, Donald J., to Union Carbide Corp. Vinyl phosphines. 3,048,638, 8–7–62, Cl. 260—606.5.
Foster, Donald J., and E. Tobler, to Union Carbide Corp. Organo-mercury compounds. 3,033,886, 5–8–62, Cl. 260—431.
Foster, Donald P.: *See*—
Yackel, Edward C., Yutzy, Foster, and Rasch. 3,020,155.
Foster, E. Gordon: *See*—
Cheney, Harry A., and Foster. 3,040,015.
Foster, Edwin E. Low gradient springs and spring motors using the same. 3,033,316, 5–8–62, Cl. 185—37.
Foster, Edwin E. Spring. 3,042,742, 7–3–62, Cl. 174—69.
Foster, Edwin E. Toy gun. 3,055,352, 9–25–62, Cl. 124—11.
Foster, Elsa: *See*—
Miller, Julius J. 3,060,462.
Foster-Forbes Glass Co.: *See*—
Board, Robert R. 3,066,811.
Foster, Franz M. Diving apparatus. 3,039,415, 6–19–62, Cl. 114—16.
Foster, Frederick J., to United States Rubber Co. Composition comprising butyl rubber latex, styrene-butadiene copolymer latex, and hydraulic cement. 3,042,643, 7–3–62, Cl. 260—29.7.
Foster, Gerald L.: *See*—
Monroe, Roger F., Lowes, Foster, and Oakes. 3,049,496.
Foster, Gilbert C., to General Dynamics Corp. Circuit interrupter. 3,041,502, 6–26–62, Cl. 315—217.
Foster Grant Co., Inc.: *See*—
Ferri, Gustave, Jr. 3,041,696.
Foster, Samuel, Jr., and Eyles. 3,040,913.
Leblanc, Conrad L., and Crane. 3,041,764.
Foster, Harold S.: *See*—
Swenson, Alfred G., and Foster. 3,041,757.
Foster, Harold S., to General Electric Co. Method of manufacturing a flatiron. 3,032,861, 5–8–62, Cl. 29—155.5.
Foster, Harold S., to General Electric Co. Steam and liquid spray iron. 3,041,736, 7–3–62, Cl. 38—77.
Foster, Harold S., to General Electric Co. Steam iron with position controlled valve. 3,045,370, 7–24–62, Cl. 38—77.
Foster, Harry C., to Olin Mathieson Chemical Corp. Pressure release devices. 3,026,800, 3–27–62, Cl. 102—25.
Foster, Harry C., to Olin Mathieson Chemical Corp. Gas liberating devices. 3,041,970, 7–3–62, Cl. 102—25.
Foster, Harry C., to Olin Mathieson Chemical Corp. Blasting apparatus. 3,041,971, 7–3–62, Cl. 102—25.
Foster, Harry C., to Olin Mathieson Chemical Co. Pressure release devices. 3,054,350, 9–18–62, Cl. 102—25.
Foster, Harry C., to Olin Mathieson Chemical Corp. Excess flow cut-off valve. 3,060,959, 10–30–62, Cl. 137—498.
Foster, Harry C., to Olin Mathieson Chemical Corp. Target throwing apparatus. 3,070,082, 12–25–62, Cl. 124—8.

Foster, Harry R., and E. E. Crump, to Ohmega Laboratories, Ultra high frequency attenuator. 3,049,683, 8–14–62, Cl. 333—81.

Foster, Jackson W., to Merck & Co., Inc. Production of 1-glutamic acid. 3,032,474, 5–1–62, Cl. 195—47.

Foster, James A., Sr., and A. D. Butler, to Miles Laboratories, Inc. Packaging device and method of packaging. 3,031,-350, 4–24–62, Cl. 156—60.

Foster, James L., F. L. Laymon, and C. B. Myers, to Diamond Alkali Co. Composition and method of preventing adhesion. 3,027,291, 3–27–62, Cl. 156—289.

Foster, James R., to The Coats Co., Inc. Tire handling machine. 3,039,519, 6–19–62, Cl. 157—1.26.

Foster, James R., to The Coats Co., Inc. Rotatable wheel support for tire handling machines. 3,042,090, 7–3–62, Cl. 141—288.

Foster, James R., to The Coats Co., Inc. Tire demounting tool. 3,056,449, 10–2–62, Cl. 157—1.22.

Foster, John A., to J. L. Clark Mfg. Co. Protective cover for dispensing container. 3,038,633, 6–12–62, Cl. 220—55.

Foster, John P., D. J. Dickerhoof, and J. E. Fercana, Athlete's training cart. 3,062,548, 11–6–62, Cl. 273—55.

Foster, Joseph, and R. H. Mallard, to Foster-Mallard Ltd. Sound reproducing machines. 3,034,793, 5–15–62, Cl. 274—10.

Foster, Julius E. Welding system with scanning weld current. 3,042,788, 7–3–62, Cl. 219—67.

Foster, Karl: *See*—
Pavlovic, Dusan, Foster, and Osborn. 3,058,857.

Foster, Kenneth W., N. B. Newman, and R. L. Geer, to Shell Oil Co. Wellhead seal. 3,050,127, 8–21–62, Cl. 166—97.

Foster, Laurence H.: *See*—
Blanding, Wendell S., Foster, and Spremulli. 3,021,643.

Foster, Lawrence H., and H. E. Bush, to Foster Refrigerator Corp. Refrigerator. 3,058,320, 10–16–62, Cl. 62—382.

Foster, Leslie W.: *See*—
Snyder, Merton F., and Foster. 3,018,754.

Foster, Leslie W., to McCulloch Corp., Marine Products Division. Outboard motor water pump arrangement. 3,025,-824, 3–20–62, Cl. 115—17.

Foster, Lloyd P., and E. W. Wilson, to Eastman Kodak Co. Synthetic lubricant composition. 3,026,262, 3–20–62, Cl. 252—49.8.

Foster-Mallard Ltd.: *See*—
Churchill, John A. 3,064,981.
Foster, Joseph, and Mallard. 3,034,793.
Mallard, Richard H. 3,048,406.
Mallard, Richard H. 3,055,663.

Foster, Paul H., and W. J. Stark, to Jersey Production Research Co. System for automatic transcribing with manual override. 3,060,404, 10–23–62, Cl. 340—15.5.

Foster Refrigerator Corp.: *See*—
Foster, Lawrence H., and Bush. 3,058,320.

Foster, Richard A., to Bristol Siddeley Engines Ltd. Exhaust systems for jet propulsion engines. 3,031,156, 4–24–62, Cl. 244—15.

Foster, Robert D., to Crutcher-Rolfs-Cummings, Inc. Abrasive cleaning of pipe. 3,052,066, 9–4–62, Cl. 51—9.

Foster, Robert E.: *See*—
England, David C., and Foster. 3,023,226.
Pardo, Clay E., Jr., and Foster. 3,033,706.

Foster, Roy V.: *See*—
Kingsbury, Philip A., and Foster. 3,060,087.
Kingsbury, Philip A., and Foster. 3,060,088.

Foster, Samuel, Jr., and T. H. Eyles, to Foster Grant Co., Inc. Parking garage. 3,040,913, 6–26–62, Cl. 214—16.1.

Foster, Talmage D., Jr., to Union Carbide Corp. Polyester resins. 3,029,263, 2–6–62. Cl. 260—67.

Foster, Theodore D., to The G. A. Gray Co. Spring loaded table ball bearings. 3,068,052, 12–11–62, Cl. 308—227.

Foster, Theodore G., to Carrier Corp. Ice making. 3,045,-438, 7–24–62, Cl. 62—65.

Foster, Tom, and W. E. Howald, to Curtiss-Wright Corp. Hollow blade construction. 3,017,159, 1–16–62, Cl. 253—39.15.

Foster, Tom, R. F. Jaklitsch, H. B. Mayr, and C. J. Walker, to Curtiss-Wright Corp. Rotor blade shroud and vibration damping structure. 3,048,365, 8–7–62, Cl. 253—77.

Foster, Thomas W. F.: *See*—
Lowry, John W., Peterson, and Foster. 3,043,678.

Foster, Walter E.: *See*—
Ashby, Eugene C., Foster, Mangham, and Pearson. 3,020,208.

Foster, Walter E., to Avco Corp. Mechanically damped tension system for tape recorder. 3,022,960, 2–27–62, Cl. 242—75.3.

Foster Wheeler Corp.: *See*—
Aref, Mohamed N. 3,039,406.
Barton, Francis M. 3,039,444.
Bliss, Charles. 3,016,624.
Brunings, Jay E. 3,015,617.
Demau, Ernest L. 3,039,407.
Drewry, Montrose K. 3,039,745.
Ellis, Cecil B. 3,039,946.
Ellis, Cecil B. 3,047,485.
Frisch, Martin, Cartinhour, Tinbergen, Stern, and Tidd. 3,052,222.
Fritz, Wilfred J. 3,016,981.
Gotch, Ronald W. 3,069,529.
Hoyte, William N. 3,040,059.
Matheis, Theodore, and Alverson. 3,026,927.

Foster Wheeler Corp.: *See*—Continued
Middleton, John F. 3,048,957.
Taylor, John E. 3,016,712.
Whitney, Gilbert C., Jr. 3,050,341.
Whitney, Gilbert C., Jr., and Galvanek. 3,032,280.
Wimmer, Rudolph A. 3,016,855.

Foster Wheeler F., Societe: *See*—
Legrand, Pierre. 3,036,818.

Foster Yates & Thom Ltd.: *See*—
Hardy, Henry. 3,025,568.

Fostey, James W.: *See*—
Booth, Harvey J., Ernest, and Fostey. 3,059,623.

Fostoria Corp.: *See*—
Barber, Ira J. 3,023,296.
White, Howard T. 3,053,189.

Fothergill, Samuel J. R.: *See*—
Raper, Alan R., Clements, and Fothergill. 3,024,084.

Fotis, Peter, Jr., to Standard Oil Co. Extraction of 2,7-naphthalene dicarboxylic acid from its isomers with gamma-picoline. 3,069,463, 12–18–62, Cl. 260—525.

Fotsch, Arthur H., and J. G. Jorgenson, to Kearney & Treckler Corp. Machine tool. 3,026,778, 3–27–62, Cl. 90—15.

Fotsch, Arthur H., W. P. Bartz, and F. J. Schalk, to Kearney & Trecker Corp. Machine tool. 3,029,710, 4–17–62, Cl. 90—16.

Fouch, Jasper F., to Stauffer Chemical Co. Battery terminal. 3,064,068, 11–13–62, Cl. 136—168.

Foudriat, Donald P., Sr., to Motorola, Inc. Printed circuit process. 3,034,930, 5–15–62, Cl. 117—212.

Foufounis, Chantal: *See*—
Foufounis, Jean and C. 3,069,959.

Foufounis, Jean, and C. Foufounis (nee Sordoillet). Means for teaching music. 3,069,959, 12–25–62, Cl. 84—477.

Fougere, Guy L., and W. L. Brendling, to Sylvania-Thorn Colour Television Laboratories Ltd. Electric power converters. 3,030,590, 4–17–62, Cl. 331—113.

Fouillard, Claude, and J. Montagnon, to Procedes Industriels et Charbons Actifs (P.I.C.A.). Means and arrangements for distributing sterilized water and the like liquids of a well defined grade. 3,019,185, 1–30–62, Cl. 210—205.

Foulkes, John D., to Bell Telephone Laboratories, Inc. Communication system. 3,023,309, 2–27–62, Cl. 250—17.

Foulon, Yvon, to Nord-Aviation, Societe Nationale de Constructions Aeronautiques. Monobloc assembly for the various parts of a ram-jet combustion device. 3,035,410, 5–22–62, Cl. 60—35.6.

Foulon, Yvon, to Nord-Aviation, Societe Nationale de Constructions Aeronautiques. Prefilling system for the fuel-feed circuit of a ram-jet unit. 3,037,352, 6–5–62, Cl. 158—36.

Foundation for Prosthetic Research: *See*—
Brown, Adolph M. 3,067,106.

Foundos, Constantine: *See*—
Cook, Edward G., Tibolla, and Foundos. 3,019,637.

Foundry Equipment Co., The: *See*—
Barnett, Charles H., and Teagle. 3,058,732.
Harper, Laffie. 3,029,858.

Foundry Equipment Ltd.: *See*—
Beech, Austin S. 3,024,505.

Foundry Services International Ltd.: *See*—
Cross, Albert S. J. 3,025,153.

Fountain, Ed., Lumber Co.: *See*—
Fountain, Rex E. 3,041,231.

Fountain, Josephine G. Direct suction tracheotomy tube. 3,039,469, 6–19–62, Cl. 128—351.

Fountain, Rex E. to Ed. Fountain Lumber Co. Method of making laminated boards from rotten grade wood. 3,041,-231, 6–26–62, Cl. 156—254.

Fountain, Roy D.: *See*—
Fisher, Arthur L., Fountain, Schweizer, and Thomas. 3,036,145.

Fourcade (Harispuru), Enrique. Parking signal. 3,037,098, 5–29–62. Cl. 200—61.27.

Fourcade, Robert, C. Cousin, T. Van De Walle, and A. Nicco, to Societe Anonyme dite: Societe Normande de Matieres Plastiques. Polymerization of ethylene. 3,058,972, 10–16–62. Cl. 260—94.9.

Fourey, Jacques C., to Preparation Industrielle des Combustibles Fontainebleau. Method of and apparatus for handling magnetizable material. 3,036,245, 5–22–62, Cl. 317—123.

Fournet, Andre, and H. Lemoine, to Societe des Usines Chimiques Rhone-Poulenc. Acrylonitrile-cyclic sulfone copolymers. 3,017,397, 1–16–62, Cl. 260—79.3.

Fournet, Andre, and H. Lemoine, to Usines Chimiques Rhone-Poulenc, Societe des. Vinyloxyaryl sulphonic acids and polymers thereof. 3,049,512, 8–14–62, Cl. 260—49.

Fournier, Jane O., and D. D. Reynolds, to Eastman Kodak Co. Process for preparing 1,2-ethanedithiol. 3,043,880, 7–10–62, Cl. 260—609.

Fournier, Jean P., to Chantiers de l'Atlantique (Penhoet-Loire). Safety arrangement for furnaces. 3,060,871, 10–30–62, Cl. 110—173.

Fournier, Valmar: *See*—
Ferrell, Wesley, Fournier, and Olson. 3,051,995.

Fournier, William: *See*—
Boyce, Harlan R., Fleck, and Fournier. 3,039,557.

Fouse, Frederick Z., to Anchor Hocking Glass Corp. Gauging machine. 3,018,889, 1–30–62, Cl. 209—88.

Fouse, Frederick Z., and J. F. Kidwell, to Anchor Hocking Glass Corp. Method and means for inspecting containers. 3,067,872, 12–11–62, Cl. 209—75.

Fouser, Fred A., to Vandercook & Sons, Inc. System for print size control in proof presses. 3,027,833, 4–3–62, Cl. 101—252.

Foust, Charles W.: *See*—
Luring, William S., Glaser, Foust, and Soltis. 3,060,921.

Fouts, Norman G.: *See*—
Pribonic, John F., and Fouts. 3,057,441.

"Fo-We" Forschungs- und Verwertungs-Anstalt: *See*—
Mounier, Denis. 3,066,976.

Foweraker, David B., to Bristol Siddeley Engines Ltd. Adjustable pitch guide blades. 3,056,541, 10–2–62, Cl. 230—114.

Fowle, Arthur A.: *See*—
Slayter, Games, and Fowle. 3,015,524.

Fowle, Irving H., to General Aniline & Film Corp. Box for photographic materials. 3,043,487, 7–10–62, Cl. 229—6.

Fowler, Andrew H., to United States of America, Atomic Energy Commission. Error compensator for a position transducer. 3,039,032, 6–12–62, Cl. 318—30.

Fowler, Blair B., to Aerojet-General Corp. Nozzle-closure. 3,026,047, 3–20–62, Cl. 239—309.

Fowler, Blair B., to Aerojet-General Corp. Flame thrower. 3,038,530, 6–12–62, Cl. 158—28.

Fowler, Blair B., D. A. Young, and N. J. Griswold, to Aerojet-General Corp. Flame thrower. 3,034,568, 5–15–62, Cl. 158—28.

Fowler, Blair B., and D. A. Young, to Aerojet-General Corp. Device for controlling a firing pin. 3,058,397, 10–16–62, Cl. 89—27.

Fowler, Charles A., and C. H. Gager, to United States of America, Army. Method and apparatus for multiplexing and delaying normal and coherent video on one delay line. 3,032,717, 5–1–62, Cl. 329—147.

Fowler, David C.: *See*—
Sieve, Frank W., Olenick, and Fowler. 3,040,628.
Sieve, Frank W., Olenick, and Fowler. 3,041,017.

Fowler, Eric B., and W. A. Rhinehart, to Iowa State College Research Foundation, Inc. Recording scanner for chromatograms having radio activity. 3,027,458, 3–27–62, Cl. 250—83.6.

Fowler, Eric B., and W. A. Rhinehart, to Iowa State College Research Foundation, Inc. Chromatographic method and apparatus. 3,033,986, 5–8–62, Cl. 250—83.6.

Fowler, F. Robert J., to General Motors Corp. Variable speed drive mechanism. 3,019,875, 2–6–62, Cl. 192—58.

Fowler, George W.: *See*—
Fitzpatrick, John T., Fowler, and Marcus. 3,069,422.
Fitzpatrick, John T., Fowler, and Marcus. 3,069,428.
Hersh, Solomon P., and Fowler. 3,055,861.

Fowler, George W., and J. W. Lynn, to Union Carbide Corp. Process for the production of tertiary cyanoethylated amines. 3,020,310, 2–6–62, Cl. 260—465.5.

Fowler, George W., D. G. Crosby, and W. R. Proops, to Union Carbide Corp. Method for purifying 2,5-dimethylpiperazine. 3,021,330, 2–13–62, Cl. 260—250.

Fowler, Hugh. Convertible chair. 3,046,050, 7–24–62, Cl. 297—118.

Fowler, Leslie L., to Infilco Inc. Magnetic separator. 3,017,031, 1–16–62, Cl. 210—222.

Fowler, Morris G.: *See*—
Kuzell, Charles R., Fowler, Davis, Klein, and MacDougall. 3,051,467.
Kuzell, Charles R., Fowler, Davis, Klein, Uren, and MacDougall. 3,023,454.

Fowler, Reid G. Barber chair attachment. 3,044,828, 7–17–62, Cl. 297—191.

Fowler, Roland G., O. F. Larsen, P. A. Dale, and M. J. Garvey, to The National Cash Register Co. Multiple-point switches. 3,061,692, 10–30–62, Cl. 200—16.

Fowler, Vernon J., to University of Illinois Foundation. Folded transmission line and tube. 3,022,443, 2–20–62, Cl. 315—39.3.

Fowler, Vernon J., to General Telephone and Electronics Laboratories, Inc. Magnetron oscillator. 3,070,755, 12–25–62, Cl. 331—86.

Fowler, William J., to Chicago Rawhide Mfg. Co. Seal installation tool. 3,030,702, 4–24–62, Cl. 29—280.

Fowles, Gilbert L.: *See*—
Pollock, Gordon J., and Fowles. 3,026,977.

Fowles, Gilbert L., and G. J. Pollock, to The E. F. Hauserman Co. Partition system. 3,033,330, 5–8–62, Cl. 189—34.

Fowlkes, George V.: *See*—
Peterson, Glen, and Fowlkes. 3,058,680.

Fowlkes, Robert E.: *See*—
Oglesby Nicholas P. Turpin and Fowlkes. 3,039,208.

Fox, Alan J., to Koppers Co. Inc. Process for the production of shaped plastic articles. 3,039,911, 6–19–62, Cl. 156—224.

Fox, Arthur G.: *See*—
Boyd, Gary D., Fox, and Li. 3,055,257.

Fox, Benjamin. Electrical coupling device for miniature terminals. 3,042,894, 7–3–62, Cl. 339—142.

Fox, Clifford E., to Baird and Tatlock (London) Ltd. Improvements relating to containers for liquids and to means for assembling together a plurality of containers. 3,033,412, 5–8–62, Cl. 220—23.4.

Fox, Edward A., Sr.: *See*—
Shoup, Ransom F., and Fox. 3,051,379.
Shoup, Ransom F., and Fox. 3,054,557.
Shoup, Ransom F., and Fox. 3,063,623.
Shoup, Ransom F., and Fox. 3,067,929.
Shoup, Ransom F., and Fox. 3,069,076.

Fox, Edward W., to Plastic Binding Corp. Binding machine. 3,023,434, 3–6–62, Cl. 11—1.

Fox, Ellis M. Welded pipeline repair clamp. 3,053,282, 9–11–62, Cl. 138—9.

Fox, Eugene R.: *See*—
Uhrig, Edward O., and Fox. 3,068,460.

Fox, Harold K.: *See*—
Hopkins, Frank L., and Fox. 3,021,939.

Fox, Francis O., deceased, by G. D. Fox, administrator. Apparatus for displaying floor coverings. 3,033,374, 5–8–62, Cl. 211—45.

Fox, Frank. Apparatus for securing caps or stoppers to bottles and other suitable containers. 3,055,155, 9–25–62, Cl. 53—335.

Fox, Frank. Apparatus for securing or sealing caps or closure members to bottles and other suitable containers. 3,055,156, 9–25–62, Cl. 53—363.

Fox, George D.: *See*—
Fox, Francis O. and G. D. 3,033,374.

Fox, Gerald B.: *See*—
Meeker, David A., and Fox. 3,049,391.

Fox, Gerald B., to The Hobart Mfg. Co. Power scraper for dishwashing machines. 3,067,757, 12–11–62, Cl. 134—111.

Fox, Gerald B., D. E. Vandeveer, and H. E. Welch, to The Hobart Mfg. Co. Glassware cleansing machine. 3,044,092, 7–17–62, Cl. 15—75.

Fox, Harold K., to Bemis Bro. Bag Co. Automatic thread clipper for bag end sewing machines. 3,046,919, 7–31–62, Cl. 112—11.

Fox, Herbert C.: *See*—
Franklin, Richard E., and Fox. 3,048,289.

Fox, Herman B., to Automatic Electric Laboratories, Inc. Testing apparatus. 3,050,680, 8–21–62, Cl. 324—51.

Fox, Homer M., to Phillips Petroleum Co. Disposable rocket motor. 3,032,970, 5–8–62, Cl. 60—35.3.

Fox, Homer M., to Phillips Petroleum Co. Gelled nitroalkane propellants. 3,035,948, 5–22–62, Cl. 149—19.

Fox, Homer M., to United States of America, Air Force. Hybrid method of rocket propulsion. 3,068,641, 12–18–62, Cl. 60—35.4.

Fox, Homer M., and R. H. Ross, to Phillips Petroleum Co. Coated solid rocket propellants with improved ignition characteristics. 3,032,449, 5–1–62, Cl. 149—7.

Fox, Homer M., and A. F. Stegelman, to Phillips Petroleum Co. Method of consolidating solid rocket propellant grains. 3,050,435, 8–21–62, Cl. 156—294.

Fox, Leonard C., to Emerson-White-Rodgers Co. Stepped-opposed solenoid valve. 3,036,808, 5–29–62, Cl. 251—54.

Fox, Leslie. Mixing valves. 3,052,414, 9–4–62, Cl. 236—12.

Fox, Lois J.: *See*—
Daugherty, Ralph K. 3,032,086.
Magnuson, Roy M., and Daugherty. 3,036,419.
Sinetos, Nicholas D. 3,017,913.
Smith, Traver J. 3,016,788.

Fox, Martin, to The Seng Co. Rocker fixture. 3,053,570, 9–11–62, Cl. 297—263.

Fox, Martin, to The Seng Co. Chair iron. 3,053,571, 9–11–62, Cl. 297—300.

Fox, Merrill J., to Bell & Howell Co. Sheet feeding mechanism. 3,021,136, 2–13–62, Cl. 271—36.

Fox, Merrill J., to Bell & Howell Co. Loop restorer. 3,065,890, 11–27–62, Cl. 226—36.

Fox, Morris. Safety guard for gas range on-and-off valves. 3,043,289, 7–10–62, Cl. 126—42.

Fox, Paul. Antijack knife fifth wheel. 3,031,205, 4–24–62, Cl. 280—432.

Fox Products Co.: *See*—
Godshalk, James B. 3,023,770.
Godshalk, James B. 3,034,841.
Godshalk, James B., and Medlar. 3,060,375.
Medlar, Lewis A. 3,062,998.

Fox, Robert M.: *See*—
Bell, Gregory E., Campbell, and Fox. 3,037,391.

Fox, Robert M., and B. E. Ray, to General Motors Corp. Windshield cleaner. 3,019,469, 2–6–62, Cl. 15—250.21.

Fox, Robert M., and H. J. Wubbe, to General Motors Corp. Windshield wiper mechanism. 3,025,553, 3–20–62, Cl. 15—250.16.

Fox, Robert M., and J. D. Leslie, to General Motors Corp. Closure latch. 3,056,619, 10–2–62, Cl. 292—341.15.

Fox, Russell D., to Union Carbide Corp. Slag-lined furnace tapping pots. 3,063,827, 11–13–62, Cl. 75—61.

Fox, Samuel, & Co. Ltd.: *See*—
Slocombe, Cyprian M., and Lovern. 3,026,444.

Fox, Sidney, M. S. Blicharz, V. E. Origoni, to American Cyanamid Co. Method of preparing 1,4-pregnadienes. 3,021,346 ,2–13–62, Cl. 360—397.45.

Fox, Sidney W., and K. Harada. Thermal polymerization of amino acid mixtures containing aspartic acid or a thermal precursor of aspartic acid. 3,052,655, 9–4–62, Cl. 260—78.

Fox, Stewart A., to Nuclear-Chicago Corp. Gas chromatograph ionization detector. 3,029,358, 4–10–62, Cl. 313—93.

Fox, Thomas A. Skin pass mills and methods of rolling. 3,024,679, 3–13–62, Cl. 80—56.

Fox, Thomas H., III., T. Richey, Jr., and G. R. Winders, to United States of America, Atomic Energy Commission. Heat exchanger. 3,059,908, 10–23–62, Cl. 257—222.

Fox, William C.: *See*—
Glowacki, John J., and Fox. 3,053,042.

Fox, William C., to The Sessions Clock Co. Collapsible adjusting knob. 3,016,686, 1–16–62, Cl. 58—80.

Fox, William E. Eccentricity and alinement gage. 3,059,340, 10–23–62, Cl. 33—172.
Foxboro Co., The: *See*—
Allen, Albert. 3,057,594.
Allen, Albert. Howe, and Bowditch. 3,070,716.
Bowditch, Hoel L. 3,052,324.
Bullard, Alvan H., Jr. 3,029,638.
Cressey, John R., Peterson, Nazareth, and Lawler. 3,051,932.
Cressey, John R., Peterson, Nazareth, and Lawler. 3,051,933.
Darling, Horace E. 3,016,493.
Freitas, Manuel P., and Howe. 3,034,718.
Fuller, David H. 3,022,675.
Olsen, Everett O. 3,032,705.
Waugh, Charles C. 3,043,138.
Waugh, Charles C. 3,053,087.
Waugh, Charles C., and Jackson. 3,043,139.
Waugh, Charles C., and Jackson. 3,043,140.
Waugh, Charles C., and Jackson. 3,043,141.
Foye, Allen B., to W. R. Grace & Co. Container closures. 3,017,048, 1–16–62, Cl. 215—40.
Fracalossi, Roland N.: *See*—
Seniff, Russell W., Fracalossi, and Kangas. 3,022,097.
Fradenburgh, Evan A.: *See*—
Michel, Philip L., and Fradenburgh. 3,056,456.
Frady, William E.: *See*—
Amdahl, Gene M., and Frady. 3,049,701.
Frady, William E., to Thompson Ramo Wooldridge Inc. Gating circuits for electronic computers. 3,031,585, 4–24–62, Cl. 307—88.5.
Fraebel, Robert J., to The Garrett Corp. Inflation aspirator lock. 3,042,290, 7–3–62, Cl. 230—95.
Fraenkel, Herbert, to R. W. Gunson (Seeds) Ltd. Ejector device. 3,053,497, 9–11–62, Cl. 251—77.
Fraenkel, Herbert, to R. W. Gunson (Seeds) Ltd. Colour sorting machines. 3,066,797, 12–4–62, Cl. 209—111.5.
Fraenkel, Stephen J., to Stanray Corp. Mixer fixture. 3,051,458, 8–28–62, Cl. 259—138.
Fraenkel, Stephen J., to Stanray Corp. Flexible panel protective spacers. 3,059,288, 10–23–62, Cl. 20—22.
Frager, Michel, and H. Menard. Rotary volumetric apparatus. 3,029,741, 4–17–62, Cl. 103—130.
Frahm, Earl R.: *See*—
Frahm, Herman J. and E. R. 3,027,663.
Frahm, Elias D. G.: *See*—
De Boer, Henri G. J., and Frahm. 3,039,872.
Frahm, Herman J. and E. R. Garment press attachment. 3,027,663, 4–3–62, Cl. 38—37.
Frakes, James H.: *See*—
Friedrich, Robert E., and Frakes. 3,059,044.
Fram Corp.: *See*—
Dow, Leslie A., Fredrickson, and Parsons. 3,044,957.
Luedi, Mark. 3,038,211.
Rodman, Clarke A. 3,017,239.
Turnbull, Robert W. 3,030,302.
Framalite: *See*—
Frend, Herbert M. D. J. F. 3,043,740.
Frame, John D., J. D. Haney, and E. W. White, to Cities Service Research and Development Co. Recovery of oil from tar sand. 3,041,267, 6–26–62, Cl. 208—11.
Frame, Wayne R.: *See*—
Cook, Donald R., and Frame. 3,048,021.
Frampton, John A. Box construction for pop-out surprise toys. 3,018,937, 1–30–62, Cl. 229—37.
Frampton, John A., ½ to R. Oumand, and ½ to said J. A. Frampton. Mechanical surprise toy. 3,056,602, 10–2–62, Cl. 272—27.
Frampton, John A. Noise-making surprise toy. 3,066,934, 12–4–62, Cl. 272—27.
Frampton, Orville D., and R. E. Robinson, to National Distillers and Chemical Corp. Dihalides from dialkali metal hydrocarbons. 3,067,265, 12–4–62, Cl. 260—654.
Frampton, Stanley E.: *See*—
Eldred, Raymond D. E., and Frampton. 3,058,152.
Frampton, Vernon L.: *See*—
King, William H., and Frampton. 3,025,314.
Tons, Walter A., Jr., Kuck, and Frampton. 3,036,102.
Fran Dee Corp.: *See*—
Allen, Robert Y., Shaw, and Umstead. 3,021,639.
Francaise d'Equipment pour Navigation Aerienne, S.F.E.N.A., Societe: *See*—
Vibert, Andre. 3,034,200.
France, Haywood G.: *See*—
Bailey, Frederick E., Jr., and France. 3,029,216.
Bailey, Frederick E., Jr., and France. 3,063,948.
France, Haywood G., and F. E. Bailey, Jr., to Union Carbide Corp. Polymerization of terminal epoxyalkyl ethers. 3,024,219, 3–6–62, Cl. 260—47.
France, Leonard L.: *See*—
Begley, Richard T., and France. 3,027,255.
Francesco Vismara S.p.A.: *See*—
Cavallini, Guido, and Massarani. 3,018,305.
Cavallini, Guido, and Massarani. 3,036,131.
Cavallini, Guido, and Massarani. 3,043,746.
Cavallini, Guido, and Massarani. 3,043,838.
Francescon, Daniel L., to American Decalcomania Co. Credit card and blank for use in preparing same. 3,069,793, 12–25–62, Cl. 40—2.2.
Franchett's Crullers, Inc.: *See*—
Porambo, Francis E. 3,060,837.
Franchi, Attilio M., to Soc. p. Az. Luigi Franchi. Selective fire converter and rate reducer. 3,015,993, 1–9–62, Cl. 89—131.
Franchi, Luigi, Soc. p. Az.: *See*—
Franchi, Attilio M. 3,015,993.
Francia, Giovanni. Deceleration and centrifugal responsive brake system. 3,035,869, 5–22–62, Cl. 303—6.
Francis, Charles: *See*—
Bageman, Fred J., and Francis. 3,055,221.
Francis, Charles E., to Puriron and Chemicals, Inc. Treatment of pickle liquor sludge. 3,044,852, 7–17–62, Cl. 23—110.
Francis, Charles B., to Puriron and Chemicals, Inc. Recovery of by-products of waste pickle liquor. 3,044,868, 7–17–62, Cl. 75—29.
Francis, Charles E., to Shell Oil Co. Water-in-oil emulsion hydraulic fluids. 3,050,465, 8–21–62, Cl. 252—49.5.
Francis, Charles E., to Shell Oil Co. Emulsion hydraulic fluid. 3,067,142, 12–4–62, Cl. 252—75.
Francis, Elliott S., and R. R. Shoemaker, to Gulf Research & Development Co. Method of inhibiting foam in a lubricating oil composition. 3,024,194, 3–6–62, Cl. 252—49.6.
Francis, Frederick G., and D. J. Neale, to Caribonum Ltd. Transfer sheet coated with stabilized colorless leucauramine derivative. 3,034,917, 5–15–62, Cl. 117—36.2.
Francis, John P., Fluid seal windshield weather protector. 3,026,886, 3–27–62, Cl. 135—5.
Francis John P. Windshield weather protector. 3,032,045, 5–1–62, Cl. 135—5.
Francis, John P., Vertically adjustable windshield weather protector. 3,060,519, 10–30–62, Cl. 20—1.12.
Francis, Joseph E., to Holley Carburetor Co. Four-barrel governor carburetor. 3,018,766, 1–30–62, Cl. 123—119.
Francis, Kenneth E., and C. W. Pinkley, to Industrial Nucleonics Corp. Nuclear magnetic resonance measuring device. 3,030,045, 6–12–62, Cl. 324—.5.
Francis, Norman L.: *See*—
Erisman, Maurice J., Francis, and Antonson. 3,050,868.
Francis, Norman L., to Chemetron Corp. Rail storage and transfer device. 3,039,585, 6–19–62, Cl. 198—20.
Francis, Norman L., M. G. Thomson, and A. Musschoot, to Chemetron Corp. Apparatus for handling a continuous rail. 3,045,886, 7–24–62, Cl. 226—172.
Francis, Philip L., to General Motors Corp. Vacuum spring with disabling control. 3,033,554, 5–8–62, Cl. 267—34.
Francis, Philip L., to General Motors Corp. Vacuum spring assembly. 3,037,765, 6–5–62, Cl. 267—65.
Francis, Philip L., to General Motors Corp. Vacuum spring control apparatus. 3,048,361, 8–7–62, Cl. 251—61.
Francis, Philip L., to General Motors Corp. Vacuum spring construction. 3,070,364, 12–25–62, Cl. 267—65.
Francis, Stanley A., to Texaco Inc. Method and apparatus for measuring absorption spectra. 3,048,699, 8–7–62, Cl. 250—83.3.
Francis, Wallace R., to General Electric Co. Method for making an angle plug with looped conductor. 3,015,877, 1–9–62, Cl. 29—155.55.
Francis, William C.: *See*—
Hopkins, Thomas R., and Francis. 3,016,287.
Hopkins, Thomas R., and Francis. 3,065,233.
Hopkins, Thomas R., Osborn, and Francis. 3,016,374.
Francis, William C., to Spencer Chemical Co. Process of separating epsilon-caprolactam. 3,016,376, 1–9–62, Cl. 260—239.3.
Francis, William C., to Spencer Chemical Co. Process for amination of alpha-halo-epsilon-caprolactams. 3,019,218, 1–30–62, Cl. 260—239.3.
Franciscus, Ross B. Bicycle bumpers and license plate holder. 3,023,027, 2–27–62, Cl. 280—289.
Franck, George E., to Imperial-Eastman Corp. Fitting. 3,016,256, 1–9–62, Cl. 285—342.
Franck, George E., to Imperial-Eastman Corp. Fitting for seamed tubing. 3,025,084, 3–13–62, Cl. 285—93.
Franck, George E., to Imperial-Eastman Corp. Flaring tool. 3,027,931, 4–3–62, Cl. 153—79.
Franck, George E., to Imperial-Eastman Corp. Tube cutter. 3,041,723, 7–3–62, Cl. 30—102.
Franck, George E., to Imperial-Eastman Corp. Tube bender. 3,051,218, 8–28–62, Cl. 153—46.
Franck, George E., to Imperial-Eastman Corp. Tube-working tool. 3,059,686, 10–23–62, Cl. 153—79.
Franck, George E., to Imperial-Eastman Corp. Connector. 3,062,240, 11–6–62, Cl. 138—89.
Franck, Glenn H., to ACF Industries, Inc. Radio static generator. 3,018,567, 1–30–62, Cl. 35—12.
Franck, Glenn H., to ACF Industries, Inc. Engine noise simulator. 3,057,083, 10–9–62, Cl. 35—12.
Franck, Kurt, and V. S. Wince, to Holophane Co., Inc. Prismatic plate. 3,038,065, 6–5–62, Cl. 240—106.
Franck, Marcel, Vaporisateurs S.A., Les: *See*—
Fedit, Rene. 3,040,991.
Francken, Jan C., to North American Philips Co., Inc. High transconductance cathode-ray tube. 3,015,749, 1–2–62, Cl. 315—3.
Franco, George A., and G. Lachs, to General Dynamics Corp. Orthogonal function communication system. 3,036,157, 5–22–62, Cl. 178—67.
François, Marcel, to Hotchkiss-Brandt. Gas ejecting nozzle and projectile stabilizing fins for a self-propelled projectile. 3,053,184, 9–11–62, Cl. 102—49.

François, Marcel, to Hotchkiss-Brandt. Index unit for a conveyor carriage in a machine for sorting out letters or other documents. 3,062,356, 11–6–62, Cl. 198—38.

François, Marcel, to Hotchkiss-Brandt. Machine for sorting out letters and other documents. 3,062,391, 11–6–62, Cl. 214—11.

François, Robert E., to United States of America, Navy. Underwater target simulator. 3,048,814, 8–7–62, Cl. 340—4.

François, John, H. E. Jass, and M. W. Scott, to Revlon, Inc. Aerosol sprayer. 3,069,098, 12–18–62, Cl. 239—344.

Frangos, John W. Storage system. 3,042,228, 7–3–62, Cl. 214—16.1.

Frank, Arne, to The Trane Co. Valve assembly. 3,066,856, 12–4–62, Cl. 236—231.

Frank, Arne, and J. C. Roach, to The Trane Co. Hermetic compressor. 3,044,688, 7–17–62, Cl. 230—232.

Frank, Carl A., R. B. McClosky, and J. A. Lynch; said McClosky and Lynch assors. to said Frank. Packaging machines. 3,015,922, 1–9–62, Cl. 53—182.

Frank, Charles. Numismatic protective coin holder. 3,052,-344, 9–4–62, Cl. 206—82.

Frank, Charles E.: *See*—
Nobis, John F., Frank, and Allgeier. 3,067,260.

Frank, Charles E., and S. P. Rowland, to National Distillers and Chemical Corp. Ethylenic modification of branched chain polyamides. 3,061,582, 10–30–62, Cl. 260—45.5.

Frank, Charles E., D. W. Lum, and I. L. Mador, to National Distillers and Chemical Corp. Dimerization of active methylene compounds by oxidation. 3,067,238, 12–4–62, Cl. 260—475.

Frank, Edward. Convertible couch. 3,048,855, 8–14–62, Cl. 5—7.

Frank, Edward J., to General Electric Co. Electric circuit breaker having a sealed interrupting unit. 3,025,375, 3–13–62, Cl. 200—144.

Frank, Elmer J.: *See*—
Vanderveltz, Leon G., and Frank. 3,034,470.

Frank, Erich K., to E. I. du Pont de Nemours and Co. Polymers of carboxylic modified copolymers of butadiene-1,3 hydrocarbons and acrylic nitriles. 3,061,883, 11–6–62, Cl. 18—47.5.

Frank, Erich K., to E. I. du Pont de Nemours and Co. Mixture of (1) a butadiene-nitrile copolymer, (2) a carboxylic butadiene copolymer and (3) a chlorinated vinylidene polymer and process of blending same. 3,063,961, 11–13–62, Cl. 260—45.5.

Frank, Gerald F., to General Electric Co. Semiconductor time delay circuits utilizing the switching characteristics of unijunction transstors. 3,047,745, 7–31–62, Cl. 307—88.5.

Frank, Gerard A., and S. Kuba, to Western Electric Co., Inc. Article assembly apparatus. 3,057,051, 10–9–62, Cl. 29—203.

Frank, Gerard A., R. K. Miller, and J. J. Monahan, to Western Electric Co., Inc. Article feeding apparatus. 3,058,569, 10–16–62, Cl. 198—26.

Frank, Henry: *See*—
Robertson, Harry J., Frank, Alterman, and Oxman. 3,028,243.

Frank, John N., to Frankoma Pottery. Tile wall construction. 3,017,724, 1–23–62, Cl. 50—265.

Frank, Joseph J. Apparatus for sealing stuffed flexible casings. 3,061,838, 11–6–62, Cl. 1—329.

Frank, Joseph R.: *See*—
Campbell, Frank S., Frank, and Charles. 3,015,408.
Campbell, Frank S., Frank, and Charles. 3,015,409.

Frank, Karl F., to Micro Balancing, Inc. Vibration pickup means. 3,017,768, 1–23–62, Cl. 73—71.4.

Frank, Karl F., to Micro Balancing, Inc. Photoelectric switch means. 3,027,495, 3–27–62, Cl. 317—124.

Frank, Karl F., to Micro Balancing, Inc. Seismic vibration pickup means. 3,057,209, 10–9–62, Cl. 73—517.

Frank, Louis: *See*—
Precht, Walter, Geckle, and Frank. 3,015,615.

Frank, Louis P. Chair for arthritics and the like. 3,039,818, 6–19–62, Cl. 297—264.

Frank, Milton A., Sr. Method and device for drilling precision holes. 3,029,664, 4–17–62, Cl. 77—32.3.

Frank, Peter. Shoe last construction. 3,032,792, 5–8–62, Cl. 12—33.6.

Frank, Raymond G., to F. J. Stokes Corp. Tablet making machine. 3,029,470, 4–17–62, Cl. 18—20.

Frank, Raymond G., to F. J. Stokes Corp. Tablet making machine. 3,029,752, 4–17–62, Cl. 107—17.

Frank, Raymond G., to F. J. Stokes Corp. Tablet machine with inspection means. 3,063,390, 11–13–62, Cl. 107—1.

Frank Research Corp.: *See*—
Allen, William M., and Bell. 3,031,119.

Frank, Richard J., to United States of America, Army. Measuring circuit for digital transmission system. 3,069,498, 12–18–62, Cl. 178—69.

Frank, Richard W., to General Radio Co. Bistable counter with constant current tubes connected to grids. 3,067,388, 12–4–62, Cl. 328—203.

Frank, Robert G., to United States of America, Air Force. Jet turbine bucket wheel. 3,032,317, 5–1–62, Cl. 253—77.

Frank, Robert G., and E. S. Jones, to General Electric Co. Manufacturing method for making molybdenum base alloy articles. 3,035,341, 5–22–62, Cl. 29—552.2.

Frank, Robert K.: *See*—
Johnson, Kalin S., and Frank. 3,051,150.
Larges, Ernest R., Frank, and Kerr. 3,062,929.

Frank, Robert K., to Holley Carburetor Co. Vacuum actuated ignition timing device. 3,021,828, 2–20–62, Cl. 123—117.

Frank, Robert L., to Sperry Rand Corp. Navigation computer. 3,016,533, 1–9–62, Cl. 343—103.

Frank, Russell C., to Hughes Aircraft Co. Dip soldering apparatus. 3,056,371, 10–2–62, Cl. 113—126.

Frank, S. M., & Co., Inc.: *See*—
Koenigsamen, Arthur C. 3,053,260.
Tittmann, George S. 3,054,504.

Frank, Sidney M., F. W. Peterson, and R. W. Pfeiffer, to The M. W. Kellogg Co. Catalytic regeneration. 3,053,914, 9–11–62, Cl. 260—683.3.

Frank, Simon, and A. M. Feldman, to American Cyanamid Co. Ozone oxidation on solid catalysts. 3,026,353, 3–20–62, Cl. 260—531.

Frank, Theodore H., Jr.: *See*—
Brandon, James C., Jr., Frank, and Rahiser. 3,018,455.

Frank, Thomas L. Radiator shutter. 3,064,632, 11–20–62, Cl. 173—41.04.

Frank, William H.: *See*—
Platz, Elwood T., and Frank. 3,017,605.

Frank, William R., to Deere & Co. Offset disk harrows. 3,047,075, 7–31–62, Cl. 172—187.

Franke, Fritz, to Telefunken G.m.b.H. Monaural and binaural sound system. 3,016,424, 1–9–62, Cl. 179—1.

Franke & Heidecke, Fabrik Photographischer Präzisionsapparate: *See*—
Bretthauer, Hermann, and Madge. 3,046,863.
Knauf, Wilhelm. 3,052,273.
Schiele, Karl. 3,056,333.

Franke, Norman W.: *See*—
Anderson, John E., Franke, and Strellec. 3,060,197.

Franke, Philip R. Slalom water ski. 3,015,831, 1–9–62, Cl. 9—310.

Franke, Reinhold A., and G. L. Jones. Hand paint spray gun agitator. 3,042,310, 7–3–62, Cl. 239—142.

Frankel, Gerald, to Caps Ltd. Photographic type composing machines. 3,045,567, 7–24–62, Cl. 95—4.5.

Frankel, Harry: *See*—
Moskovitz, Milton A. 3,021,157.
Moskovitz, Milton A. 3,024,050.

Frankel, John S.: *See*—
Majeddie, Alistair M. A., and Frankel. 3,057,583.

Frankel, Milton B., to Aerojet-General Corp. Nitraza-alkylene derivatives of heterocyclic azines. 3,041,337, 6–26–62, Cl. 260—248.

Frankel, Milton B., and K. Klager, to Aerojet-General Corp. Polynitro diamines. 3,029,285, 4–10–62, Cl. 260—583.

Frankel, Milton B., and K. Klager, to Aerojet-General Corp. Nitramino esters. 3,031,492, 4–24–62, Cl. 260—482.

Frankel, Sydney. Magnetic clutch. 3,022,876, 2–27–62, Cl. 192—84.

Frankel, Theodor, to General Dynamics Corp. Electronic switching telephone system. 3,041,403, 6–26–62, Cl. 179—18.

Frankel, Theodor, to General Dynamics Corp. Time division multiplex resonant transfer transmission system. 3,061,-680, 10–30–62, Cl. 179—15.

Frankenfeld, Bruce E., L. W. Malzahn, and J. R. Weigel, to Western Electric Co., Inc. Electrical control system. 3,026,452, 3–20–62, Cl. 317—6.

Frankenstein, P., & Sons (Manchester) Ltd.: *See*—
Silverstone, Joseph, and Wright. 3,029,982.
Spidy, Alexander R., and Silverstone. 3,048,303.

Frankenstein, William: *See*—
Jones, Samuel F. 3,070,222.

Frankenstein, William P. Cartons. 3,029,010, 4–10–62, Cl. 229—34.

Frankenstein, William P. Cartons. 3,034,697, 5–15–62, Cl. 229—31.

Frankenstein, William P. Boxes or cartons. 3,049,280, 8–14–62, Cl. 229—31.

Frankenthal, Robert P., to United States Steel Corp. Method of making tin plate. 3,062,725, 11–6–62, Cl. 204—37.

Frankert, Thomas: *See*—
Nayhouse, Alfred, Frankert, and Long. 3,045,976.

Frankfurt, Sandor, to Home Draught, Inc. Beverage tapping apparatus. 3,026,006, 3–20–62, Cl. 222—400.7.

Frankhouser, Frederick M., D. O. Clark, and C. G. Wearden, to Austin-Bacon Brake Co. Vehicle brake operator. 3,065,997, 11–27–62, Cl. 303—6.

Franklin, Burton P., and C. E. Pollard, to H. K. Porter Co. Collapsible utility cart. 3,044,794, 7–17–62, Cl. 280—36.

Franklin, Donald P.: *See*—
Ansell, Sidney C., Booth, Brown, Franklin, and Rayward. 3,056,916.

Franklin, Ernest, to United Kingdom Atomic Energy Authority. Magnetic amplifiers. 3,059,174, 10–16–62, Cl. 323—89.

Franklin, Godfrey. Boat trailer. 3,018,906, 1–30–62, Cl. 214—505.

Franklin Institute The: *See*—
Stitel, Karl. 3,070,087.

Franklin Institute of the State of Pennsylvania, The: *See*—
Schuele, William J. 3,042,543.
Stone, John, IV. 3,018,433.
Stone, John, IV. 3,018,445.

Franklin, John B., and N. W. Vallance, Jr., to Electralab Printed Electronics Corp. Process for producing oxide coatings on high silicon aluminum alloy. 3,020,219, 2–6–62, Cl. 204—58.

Franklin, John J., to Proctor & Schwartz, Inc. Conveyor system. 3,068,987, 12–18–62, Cl. 198—19.

Franklin, Le Roy H., to Components for Research, Inc. High voltage cable terminal with stress cones. 3,018,318, 1–23–62, Cl. 174—73.

Franklin, Leslie U., and J. C. Gebhart, to Gulf Oil Corp. Greases thickened with lithium soaps and calcium soaps of fatty acids containing 12–14 carbon atoms. 3,042,615, 7–3–62, Cl. 252—40.

Franklin, Luther. Mining cutter. 3,020,031, 2–6–62, Cl. 262—33.

Franklin Mfg. Co.: *See*—
Lind, Wallace G. 3,051,887.

Franklin, Murray. Cardiograph electrode. 3,029,820, 4–17–62, Cl. 128—404.

Franklin, Ralph E. Oars. 3,059,255, 10–23–62, Cl. 9—24.

Franklin, Ralph E. Oar structure. 3,064,284, 11–20–62, Cl. 9—24.

Franklin Research and Development Corp.: *See*—
Bonner, William J. 3,026,565.
Sisson, Gilbert E., and Eickhoff. 3,026,053.

Franklin, Richard C., and H. I. Stryker, to E. I. du Pont de Nemours and Co. Thermally stabilized sodium hydrosulfite compositions. 3,054,658, 9–18–62, Cl. 23—116.

Franklin, Richard E., and H. C. Fox, to Railway Maintenance Corp. Method and apparatus for unloading ties and the like. 3,048,289, 8–7–62, Cl. 214—152.

Franklin, Robert K.: *See*—
Boren, William M., Franklin, and Oliphant. 3,027,763.

Franklin, Robert K., W. M. Boren, R. G. Oliphant, and R. N. Crossman; said Boren, said Oliphant, and said Crossman, assors. to Rolo Mfg. Co. Automatic liquid meter. 3,023,-618, 3–6–62, Cl. 73—224.

Franklin Systems, Inc.: *See*—
Cohen, Martin J. 3,043,956.

Franklin, Truman L., and J. R. Williams, to United States of America, Air Force. Mechanical integrator. 3,018,553, 1–30–62, Cl. 33—1.

Franklin, William M., and E. M. Jones, Jr., to The Sherwin-Williams Co. Container for paint brushes. 3,055,492, 9–25–62, Cl. 206—15.1.

Frankmann, Hans. Secondary electric batteries. 3,052,745, 9–4–62, Cl. 136—162.

Franko, William: *See*—
Taylor, Bert L. 3,030,064.

Frankoma Pottery: *See*—
Frank, John N. 3,017,724.

Franks, Charles E.: *See*—
Fons, Leland S., and Franks. 3,064,828.

Frankton, William J., W. N. Roseway, G. Atkinson, and W. J. Archibald, to International Standard Electric Corp. Carrier current communication systems incorporating repeaters. 3,059,068, 10–16–62, Cl. 179—175.31.

Frann, Stamates I.: *See*—
McKeown, Patrick J., and Frann. 3,022,008.

Franssen, Nico V., and H. Mensen, to North American Philips Co., Inc. Stereophonic sound recording and reproduction. 3,070,669, 12–25–62, Cl. 179—100.2.

Fransson, Georg L., to Galco Aktiebolaget. Method of connecting a screw to a plate or plate-like element. 3,060,562, 10–30–62, Cl. 29—437.

Frantsevitch, Vsevolod. Lubricating oil injectors for petrol engines. 3,024,781, 3–13–62, Cl. 123—196.

Frantz, Charles E.: *See*—
Cawley, William E., and Frantz. 3,023,040.

Frantz, Frederick H., to General Aniline & Film Corp. Diazotype developing apparatus. 3,027,822, 4–3–62, Cl. 95—89.

Frantz, Frederick H., and C. A. Ackermann, to General Aniline & Film Corp. Flat bed printer. 3,016,002, 1–9–62, Cl. 95—73.

Frantz, Frederick H., and C. A. Ackermann, to General Aniline & Film Corp. Microfilm viewing and copying apparatus. 3,055,266, 9–25–62, Cl. 88—24.

Frantz, Joseph F., to Monsanto Chemical Co. Purification of dodecyl mercaptan. 3,049,567, 8–14–62, Cl. 260—609.

Frantz, Joseph F., and K. I. Glass, to Monsanto Chemical Co. Manufacture of sulfur compounds. 3,032,592, 5–1–62, Cl. 260—609.

Frantz, Nicholas, and S. Gloviak, to Carter Parts Co. Electrical jack. 3,045,078, 7–17–62, Cl. 200—51.1.

Frantz, Nicholas, and S. Gloviak, to Carter Parts Co. Electrical jack. 3,045,079, 7–17–62, Cl. 200—51.1.

Frantz, Nicholas, and S. Gloviak, to Carter Parts Co. Twin electrical devices. 3,045,080, 7–17–62, Cl. 200—51.02.

Frantz, Virgil L., to Graham-White Sales Corp. Sand trap. 3,020,072, 2–6–62, Cl. 291—11.

Frantz, Virgil L., to Graham-White Sales Corp. Sand cut-off. 3,024,797, 3–13–62, Cl. 137—38.

Frantz, Virgil L. Check-bleed valve assembly. 3,036,597, 5–29–62, Cl. 137—620.

Frantz, Virgil L., to Graham-White Sales Corp. Pneumatic motor. 3,057,331, 10–9–62, Cl. 121—2.

Frantz, William, to Curtiss-Wright Corp. Liquid density computer. 3,028,748, 4–10–62, Cl. 73—32.

Frantz, William, and J. G. Johnston, to Martin-Marietta Corp. Infinitely variable hydraulic damper and locking mechanism. 3,017,865, 1–23–62, Cl. 121—41.

Franwick, Edmond J., to Hanau Engineering Co., Inc. Incisal guide for dental articulators. 3,035,350, 5–22–62, Cl. 32—32.

Franwick, Edmond J., to Hanau Engineering Co., Inc. Condylar bearing support and adjusting means for dental articulators. 3,048,923, 8–14–62, Cl. 32—32.

Franwick, Edmond J., and R. A. Ben, to Hanau Engineering Co., Inc. Dental syringe. 3,054,402, 9–18–62, Cl. 128—229.

Franz, Anselm, to Avco Corp. Combustion section for a gas turbine engine. 3,019,606, 2–6–62, Cl. 60—39.65.

Franz, Arthur J., to Fisher Scientific Co. Condensing drain valves. 3,023,776, 3–6–62, Cl. 137—587.

Franz, Ethan W. P., to May-Fran Mfg. Co. Conveyor belt structures. 3,034,638, 5–15–62, Cl. 198—195.

Franz, Henry J., 50% to F. M. Taylor. Air cooled chimney. 3,034,415, 5–15–62, Cl. 98—33.

Franz, Raymond A., and L. J. Spillane, to Monsanto Chemical Co. High energy fuels. 3,057,704, 10–9–62, Cl. 44—70.

Franz, Raymond A., and L. J. Spillane, to Monsanto Chemical Co. High energy fuels. 3,057,705, 10–9–62, Cl. 44—80.

Franz, Richard D.: *See*—
Warner, Paul F., and Franz. 3,051,695.

Franz, Richard D., and P. F. Warner, to Phillips Petroleum Co. 1,2-dithertsalkyl mercapto) ethane insecticides. 3,017,320, 1–16–62, Cl. 167—22.

Franz, Richard D., and P. F. Warner, to Phillips Petroleum Co. Production of mercaptans and sulfides. 3,051,758, 8–28–62, Cl. 260—609.

Franz, Reinhold: *See*—
Brendel, Oskar, Grantz, Hofstadt, and Franz. 3,049,760.

Franz, William F.: *See*—
Riordan, Michael D., and Franz. 3,039,954.

Franzel, Richard M., and A. C. Smith, to Minneapolis-Honeywell Regulator Co. Fluid quantity measuring apparatus. 3,037,387, 6–5–62, Cl. 73—304.

Franzen, Earl P., and V. F. Anderson, to Shell Oil Co. Pump with flow-restrictive orifice. 3,048,117, 8–7–62, Cl. 103—87.

Franzen, Wolfgang, and J. Nicol, to United States of America, Atomic Energy Commission. Transformer apparatus. 3,063,005, 11–6–62, Cl. 324—34.

Franzheim, George W. Combination gas fired incinerator and charcoal broiler. 3,044,421, 7–17–62, Cl. 110—8.

Franzus, Boris: *See*—
Canterino, Peter J., and Franzus. 3,050 510.
Wicklatz, John E., and Franzus. 3,022,283.

Frappe, Pierre P. L., to Societe des Mecaniques Verdol. Neck cords for jacquards. 3,055,400, 9–25–62, Cl. 139—85.

Frasca, Benjamin J. Combined septic tank and filter. 3,029,950, 4–17–62, Cl. 210—256.

Frasca, Benjamin J. Combined septic tank and filter. 3,047,155, 7–31–62, Cl. 210—256.

Frasch, Harald, and E. Kuwertz, to Klackner-Hutte Bremen AG. Device for directing material from one conveyer belt to another. 3,057,454, 10–9–62, Cl. 198—45.

Fraser, Allen W., and J. P. Thomas, to Technology Instrument Corp. of Acton. Wide angle mechanical stop for rotatable shafts in potentiometers and the like. 3,015,793, 1–2–62, Cl. 338—162.

Fraser, Donald A., and A. L. J. Raum, to The Distillers Co. Ltd. Polymerisation process. 3,057,836, 10–9–62, Cl. 260—93.7.

Fraser, Hugh W., Jr.: *See*—
Hurd, Frank K. 3,042,298.

Fraser, James: *See*—
Oxley, Peter, Woolfe, Bristow, Fraser, Williams, and Wilmshurst. 3,032,555.

Fraser, James, to Speakman Co. Shower head having a constant volume automatic control device. Re. 25,173, 5–29–62, Cl. 239—460.

Fraser, James, to Speakman Co. Shower head with volume control and self-cleaning feature. 3,065,917, 11–27–62, Cl. 239—460.

Fraser, James A.: *See*—
Nye, William M. 3,024,320.

Fraser, John, to Avery-Hardoll Ltd. Liquid meters. 3,027,-765, 4–3–62, Cl. 73—233.

Fraser, Kenneth G.: *See*—
Stillwagon, George B., Jr. 3,057,055.

Fraser, Morris E. Method and apparatus for cleaning used lubricant oil and lubricating oil chambers. 3,029,898, 4–17–62, Cl. 184—1.5.

Fraser, Robert W., to United-Carr Fastener Corp. Push push switch. 3,046,377, 7–24–62, Cl. 200—153.

Fraser, Robert W., to United-Carr Fastener Corp. Electrical switch. 3,049,600, 8–14–62, Cl. 200—67.

Fraser, Robert W., to United-Carr Fastener Corp. Indicator light assembly. 3,060,401, 10–23–62, Cl. 339—125.

Fraser, Roland K.: *See*—
Eisenberg, Arnold J., and Fraser. 3,064,959.

Frasier, Jordan D., and H. L. Hunter. Explosion proof cabinet. 3,016,813, 1–16–62, Cl. 98—1.

Frasik, Bernard S.: *See*—
Watts, James G. 3,028,801.
Watts, James G. 3,040,650.
Watts, James G. 3,051,075.

Frate, Domenico C., to Western Electric Co., Inc. Apparatus for testing frictional characteristics of materials. 3,017,765, 1–23–62, Cl. 73—9.

Frate, Roland A.: *See*—
Coates, Herbert W., and Frate. 3,063,454.

Fratelli Borletti, S.p.A.: *See*—
Gustin, Giuliano. 3,067,703.
Gustin, Giuliano. 3,070,051.
Moro, Antonio. 3,064,604.
Moro, Antonio. 3,064,605.

Frater, Allen H., to G. B. Lewis Co. Stackable and nestable container. 3,052,373, 9–4–62, Cl. 220—97.
Frauenberger, Johannes, to Nederlandse Organisatie voor Toegepast-Natuuriveten-Schappelijk Onderzoek ten behoeve van de Volksgezonheid. Aeration rotor. 3,045,986, 7–24–62, Cl. 259—136.
Frauenholtz, John E. Spark plug gap tool. 3,045,354, 7–24–62, Cl. 33—168.
Fraunhofer, Georg, and R. Schlafer, to Jenaer Glaswerk Schott & Gen. Cooling device for vacuum apparatus. 3,024,625, 3–13–62, Cl. 62 —515.
Fray, Gordon I.: *See*—
Robinson, Robert, and Fray. 3,067,244.
Fray, Victor H. Heading machine with stock cutter mounted on reciprocating cross-head. 3,030,642, 4–24–62, Cl. 10—15.
Frayer, Theodore: *See*—
Lockhart, Stanford C., and Frayer. 3,043,927.
Frazelle, Jay B., ½ each to J. G. Molek and R. F. Long. Portable bracket pole. 3,018,898, 1–30–62, Cl. 211—86.
Frazer, August H., to E. I. du Pont de Nemours and Co. Process for the preparation of polyurethanes. 3,022,334, 2–20–62, Cl. 260—482.
Frazer, August H., to E. I. du Pont de Nemours and Co. Linear segmented copolyester and articles formed therefrom. 3,037,960, 6–5–62, Cl. 260—45.4.
Frazer, Jack W., to United States of America, Atomic Energy Commission. Method for the preparation of binary nitrogen-fluorine compounds. 3,033,771, 5–8–62, Cl. 204—177.
Frazer, Jack W., to United States of America, Atomic Energy Commission. Method of making tungsten filaments. 3,069,584, 12–18–62, Cl. 313—341.
Frazer, Samuel, to A. Lehman. Hand tool for removing a protective backing from adhesive surfaces. 3,040,802, 6–26–62, Cl. 156—584.
Frazier, David, to The Standard Oil Co. Analog computer for linear programming. 3,024,978, 3–13–62, Cl. 235—61.
Frazier, Lewis E., to North American Aviation, Inc. Salt bath pump. 3,020,851, 2–13–62, Cl. 103—153.
Frazier, Thomas C., Jr., and B. H. Sherman, to Allied Chemical Corp. Production of triallyl isocyanurate. 3,065,231, 11–20–62, Cl. 260—248.
Freaney, James A. Waste collection apparatus. 3,024,928, 3–13–62, Cl. 214—302.
Frearson, Peter M., and E. S. Stern, to J. F. MacFarlan & Co. Ltd. N-ether-alkylene norpethidines. 3,024,241, 3–6–62, Cl. 260—294.3.
Frearson, Peter M., and E. S. Stern, to J. F. MacFarlan & Co. Ltd. Ethyl-4-phenyl-N-ether alkylene-4-piperidine carboxylates. 3,025,301, 3–13–62, Cl. 260—294.3.
Freas, George L.: *See*—
Johnston, Samuel S., and Freas. 3,026,884.
Freas, Raymond L. Electrical coil and cooling system therefor. 3,030,555, 4–17–62, Cl. 317—158.
Freas, Raymond L. Electrical coil and cooling system therefor. 3,032,693, 5–1–62, Cl. 317—158.
Frech, Kenneth J.: *See*—
Odioso, Raymond C., and Frech. 3,062,903.
Frech, Roger A.: *See*—
Hilder, Theodore M., Rennilson, and Frech. 3,047,871.
Frechette, Leo P., Jr., R. E. McGrath, A. L. Charboneau, and R. E. Wheeler, to Royal McBee Corp. Ribbon feed mechanism for business machines and the like. 3,038,582, 6–12–62, Cl. 197—160.
Fredd, John V.: *See*—
Calvert, John G., Corley, and Fredd. 3,064,580.
Schramm, Harry B., Raulins, and Fredd. 3,025,912.
Schramm, Harry B., Raulins, and Fredd. 3,054,449.
Fredd, John V., to Otis Engineering Corp. Well tools. Re. 25,289, 11–20–62, Cl. 166—126.
Fredd, John V., to Otis Engineering Corp. Releasable supports for well devices. 3,027,947, 4–3–62, Cl. 166—214.
Fredd, John V., to Otis Engineering Corp. Flow control well tools. 3,066,740, 12–4–62, Cl. 166—224.
Frederick, Claude M., Jr., and G. V. Apparatus for projecting multiple superposed images. 3,036,496, 5–29–62, Cl. 88—24.
Frederick, Grace V.: *See*—
Frederick, Claude M., Jr., and G. V. 3,036,496.
Frederick, Harold M., to Burroughs Corp. Sheet item handling apparatus. 3,067,886, 12–11–62, Cl. 214—11.
Frederick, Marvin R.: *See*—
George, Paul J., and Frederick. 3,025,284.
Frederick, Ralph B. Traction device for vehicle tires. 3,047,037, 7–31–62, Cl. 152—228.
Frederick, Wilbur J. High voltage electrostatic machine. 3,061,745, 10–30–62, Cl. 310—6.
Frederick, Willard D. Ticket issuing device for parking meters. 3,058,639, 10–16–62, Cl. 226—76.
Frederick-Willys Co., Inc., The: *See*—
Elden, Alvin P. 3,030,729.
Fredericks, Robert H., to Ford Motor Co. Door latch mechanism. 3,047,324, 7–31–62, Cl. 292—280.
Fredericks, Robert H., and R. P. Daniel, to Ford Motor Co. Safety steering wheel. 3,016,764, 1–16–62, Cl. 74—552.
Fredericksen, Herman L.: *See*—
Wyss, John H., Fredericksen, and Testard. 3,019,446.
Frederickson, Arman F., J. Hower, Jr., and R. C. Reynolds, Jr., to Pan American Petroleum Corp. Determination of deposition water salinity. 3,022,140, 2–20–62, Cl. 23—230.
Fredette, Joseph H., W. E. Taylor, and R. J. White, to American Can Co. Container. 3,049,224, 8–14–62, Cl. 206—42.
Fredholm, Gunnar I. Folding machines. 3,031,780, 5–1–62, Cl. 38—2.
Fredman, Martha. Rocking device for baby carriages and the like. 3,048,419, 8–7–62, Cl. 280—31.
Fredrick, Russell E., to Minnesota Mining and Mfg. Co. Thermoelectric alloys and elements. 3,020,326, 2–6–62, Cl. 136—5.
Fredrick, Russell E., and R. W. Fritts, to Minnesota Mining and Mfg. Co. Thermoelectric device, thermoelements therefor, and method of making such elements. 3,051,767, 8–28–62, Cl. 136—4.
Fredrick, William H., ½ to N. Gilbert. Nesting and stacking basket. 3,037,659, 6–5–62, Cl. 220—19.
Fredricksen, Verne, to Andersen Corp. Combined hinge and hanger for screens and storm sash. 3,042,962, 7–10–62, Cl. 16—158.
Fredrickson, Arnold O: *See*—
Snellen, Paul F. 3,025,461.
Fredrickson, Arthur R.: *See*—
Dow, Leslie A., Fredrickson, and Parsons. 3,044,957.
Fredriks, Theodore R., to Cleveland Technical Center, Inc. Loading system. 3,067,699, 12–11–62, Cl. 105—369.
Fredriksson, Per Sven E., to Svenska Metallverken, Aktiebolget. Rolling mills. 3,069,942, 12–25–62, Cl. 80—42.
Fredriksson, Per Sven E., O. A. Granström, and I. R. Gustafson, to Svenska Metallverken, Aktiebolaget. Coil conveyor for rolling mill. 3,032,289, 5–1–62, Cl. 242—79.
Fredriksson, Walter E.: *See*—
Boervd, Arne G. T., Lindback, Fredriksson, and Mitnitzky. 3,069,508.
Free, Alfred H., to Miles Laboratories, Inc. Method for determining glucose in blood. 3,061,523, 10–30–62, Cl. 195—103.
Freeberg, Lois R. Play and exercise apparatus. 3,032,343, 5–1–62, Cl. 272—56.5.
Freeborn, Albert S.: *See*—
Thompson, Archibald W., and Freeborn. Re. 25,188.
Freeborn, James E., to Resonated Products, Inc. Reciprocatory apparatus and energy exchangers therefor. 3,058,361, 10–16–62, Cl. 74—26.
Freeborn, John C., to Minneapolis Honeywell Regulator Co. Hydraulic control valve. 3,046,951, 7–31–62, Cl. 121—150.
Freed, Jacob B.: *See*—
Schenck, Robert C., and Freed. 3,040,670.
Freed, Meier E.: *See*—
Shetty, Bola V., Bruce, and Freed. 3,062,839.
Freed, Rudolph J., to Bak-Kraft Corp., Ltd. Dough treating machine. 3,030,898, 4–24–62, Cl. 107—40.
Freed, Rudolph J., to Bak-Kraft Corp., Ltd. Process for fermenting yeast doughs and product therefor. 3,031,306, 4–24–62, Cl. 99—90.
Freed, Sidney, to U.S. Photo Supply Co., Inc. Light meter mounting. 3,026,782, 3–27–62, Cl. 95—10.
Freeder, Harvey: *See*—
Abrams, Bernard W., and Freeder. 3,054,618.
Freedman, Arthur J., to Standard Oil Co. Hydrocarbon oils containing reaction products of imidozolines and alkylene minodiacetic acids. 3,060,007, 10–23–62, Cl. 44—63.
Freedman, Arthur J., to Standard Oil Co. Automatically tempera?ncompensated corrosion measurements. 3,067,-386, 12–4–62, Cl. 324—71.
Freedman, Arthur J., and G. Reid, to Standard Oil Co. Specimen holder for conductometric corrosion measurement. 3,049,915, 8–21–62, Cl. 73—86.
Freedman, Bernard, and J. J. Mestdagh, to Monsanto Chemical Co. Water sensitive molds and cores of fast collapsibility. 3,050,797, 8–28–62, Cl. 22—193.
Freedman, Harold P., to Avel Corp. Geneva. Data exchange systems. 3,049,706, 8–14–62, Cl. 343—6.5.
Freedman, Harold P., J. Vielle, and R. A. Wiersma, to Avel Corp. Geneva, Range measuring devices. 3,035,260, 5–15–62, Cl. 343—6.5.
Freedman, Larry A., and J. O. Preisig, to Radio Corp. of America. Stereophonic sound signal receivers. 3,059,056, 10–16–62, Cl. 179—15.
Freedman, Larry A., and J. O. Preisig, to Radio Corp. of America. Gain-control circuit for stereophonic radio receivers. 3,061,683, 10–30–62, Cl. 179—15.
Freedman, Lawrence I., and J. W. Tone, to Ronson Corp. of Delaware. Rotary buffing disc with removable cloth holder. 3,027,585, 4–3–62, Cl. 15—230.
Freedman, Lawrence I., and J. W. Tone, to Ronson Corp. of Delaware. Hair-drying implement. 3,057,364, 10–9–62, Cl. 132—9.
Freedman, Louis: *See*—
Geiger, Karl, Shapiro, and Freedman. 3,059,029.
Shapiro, Seymour L., and Freedman. 3,020,285.
Shapiro, Seymour L., and Freedman. 3,046,281.
Shapiro, Seymour L., and Freedman. 3,051,709.
Shapiro, Seymour L., and Freedman. 3,055,906.
Shapiro, Seymour L., and Freedman. 3,057,780.
Shapiro, Seymour L., and Freedman. 3,062,819.
Shapiro, Seymour L., and Freedman. 3,068,235.
Shapiro, Seymour L., Freedman, and Rose. 3,054,794.
Shapiro, Seymour L., Freedman, and Soloway. 3,051,-705.
Shapiro, Seymour L, Freedman, and Soloway. 3,069,315.
Shapiro, Seymour L., Freedman, and Weinberg. 3,056,-797.
Freedman, Louis, A. J. Merritt, and E. Eigen, to U.S. Vitamin & Pharmaceutical Corp. Cis-cinnamic acid anti-inflammatory compositions and process of treating inflammation and capillary fragility. 3,068,148, 12–11–62, Cl. 167—65.

Freedman, Louis, and S. L. Shapiro, to U.S. Vitamin & Pharmaceutical Corp. Therapeutic wound healing composition of hydroxypropylamides of hydroxybenzoic acids. 3,027,301, 3–27–62, Cl. 167—65.

Freedman, Meyer L., and S. B. Elliott, to Ferro Chemical Corp. Preparation of glassy polymers. 3,024,222, 3–6–62, Cl. 260—80.

Freeland, Charles A., to Rawsons (Labelling Machines) Ltd. Machines for dispensing adhesive labels and the like. 3,029,979, 4–17–62, Cl. 221—22.

Freeland, James C., to Freeland Sons Co. Swimming raft. 3,034,155, 5–15–62, Cl. 9—11.

Freeland, Leonor Z. Aircraft. 3,045,951, 7–24–62, Cl. 244—23.

Freeland, Royden R., to International Crystal Mfg. Co. Testing instrument. 3,065,417, 11–20–62, Cl. 324—79.

Freeland Sons Co.: *See*—
Freeland, James C. 3,034,155.

Freeland, Stanley R.: *See*—
Bagby, John P., and Freeland. 3,053,159.

Freeman, Alan T., to Associated Electrical Industries Ltd. Electric circuit breakers. 3,064,099, 11–13–62, Cl. 200—106.

Freeman, Ambrose W. Liquid dispensing pump. 3,035,743, 5–22–62, Cl. 222—341.

Freeman, Ardee H., to Bell Intercontinental Corp. Particulate material separator. 3,036,708, 5–29–62, Cl. 209—134.

Freeman, Ardee H., to Bell Intercontinental Corp. Blast machine enclosure. 3,049,837, 8–21–62, Cl. 51—13.

Freeman, Armistead C. Roll changer. 3,022,022, 2–20–62, Cl. 242—58.

Freeman, Carl R. Adjustable stanchion. 3,035,708, 5–22–62, Cl. 211—86.

Freeman, Carl R. Space heater and heating system. 3,068,854, 12–18–62. Cl. 126—110.

Freeman Chemical Corp.: *See*—
Freeman, Stephen E., and Steiner. 3,024,215.

Freeman, Dale D.: *See*—
Chisholm, Douglas S., Freeman, Holzinger, and Price. 3,065,190.

Freeman, David A. Smooth surface press plate. 3,015,176, 1–2–62, Cl. 38—66.

Freeman, David A. Automatically operated spraying apparatus. 3,042,274, 7–3–62, Cl. 223—57.

Freeman, Dennis B.: *See*—
Jenkins, Herbert A. H., and Freeman. 3,041,215.

Freeman, Donald C., Jr., to Union Carbide Corp. Process for the preparation of cyclopentadienylmanganese tricarbonyls. 3,040,077, 6–19–62, Cl. 260—429.

Freeman, Donald C., Jr., and T. L. Thomas, Jr., to Union Carbide Corp. Process for the preparation of organometallic compounds. 3,032,569, 5–1–62, Cl. 260—429.

Freeman, Harvey S., and H. G. Kunkler; said Kunkler assor. to said Freeman. Handling device for presses. 3,029,957, 4–17–62, Cl. 214—1.

Freeman, Howard G., to Jamesbury Corp. Valve bonnet and handle. 3,016,226, 1–9–62, Cl. 251—109.

Freeman, Howard G., to Jamesbury Corp. Hydraulically sealed valve stem. 3,052,474, 9–4–62, Cl. 277—70.

Freeman, James H., S. Robbins, and R. F. Sterling, to Westinghouse Electric Corp. Process of treating a thermoplastic amine-aldehyde resin with a thermosetting additive and product obtained therefrom. 3,026,284, 3–20–62, Cl. 260—45.1.

Freeman, John D., and L. Kull, to General Time Corp. Remotely settable timer. 3,023,327, 2–27–62, Cl. 307—141.8.

Freeman, John D., L. Kull, and F. Q. Rast, to General Time Corp. Fuel mileage meter for automobile or the like. 3,069,901, 12–25–62, Cl. 73—113.

Freeman, John F.: *See*—
Davis, Dexter C., Jr., Freeman, and Kura. 3,048,892.

Freeman, John J.: *See*—
Patterson, James R., Wheeler, and Freeman. 3,032,533.

Freeman, Lawrence R.: *See*—
Morgan, Lyman W., and Freeman. 3,018,230.

Freeman, Lawrence W., to Plax Corp. Supporting containers for printing thereon. 3,019,725, 2–6–62, Cl. 101—38.

Freeman Lawson B., to Deering Milliken Research Corp. Yarn handling apparatus. 3,070,052, 12–25–62, Cl. 112—235.

Freeman, Leslie G.: *See*—
Hastew, Donald, and Freeman. 3,062,025.

Freeman, Lewis G. Adjustable table. 3,026,158, 3–20–62, Cl. 311—19.

Freeman Mfg. Co.: *See*—
Geimer, Cornelius J. 3,045,678.

Freeman, Mathew L. Valves. 3,025,881, 3–20–62, Cl. 137—627.5.

Freeman, Mathew L., to McEvoy Co. Three-way valve. 3,063,469, 11–13–62, Cl. 137—627.5.

Freeman, Paul E., to Aluminum Co. of America. Screen type structures. 3,063,520, 11–13–62, Cl. 189—34.

Freeman, Peter K.: *See*—
Peterson, Walter H., and Freeman. 3,067,223.

Freeman, Philip. Laminated blister package sealing machine. 3,019,582, 2–6–62, Cl. 53—371.

Freeman, Quilla H. Stringed musical instrument. 3,035,472, 5–22–62, Cl. 84—1.16.

Freeman Robert L.: *See*—
Currey, Charles, Brown, Holbrook, Truesdale, and Freeman. 3,070,798.
Currey, Charles, and Freeman. 3,056,135.

Freeman, Robert L., and C. H. Currey, to A. C. Nielsen Co. System for determining listening habits of wave signal receiver users. 3,058,065, 10–9–62, Cl. 325—31.

Freeman, Robert R., to United States of America, Army. Apparatus for the cultivation of microorganisms. 3,027,305, 3–27–62, Cl. 195—127.

Freeman, Robert W., to Union Carbide Corp. Nondisintegrating alloy. 3,032,412, 5–1–62, Cl. 75—138.

Freeman, Stephen E., and J. Steiner, to Freeman Chemical Corp. Foundry composition containing furfuryl alcohol polymer, foundry structure thereof, and method of making same. 3,024,215, 3–6–62, Cl. 260—41.

Freeman, Thomas M.: *See*—
Markakis, Pericles, Freeman, and Harte. 3,027,258.

Freeman, Walter M. Method for finishing hard-plastic lenses for eyeglasses. 3,030,745, 4–24–62, Cl. 51—284.

Freen, Philip, to Benco Television Associates Ltd. Signal distribution system. 3,064,195, 11–13–62, Cl. 325—308.

Freeport Sulphur Co.: *See*—
Tuller, William N., and Jackson. 3,042,503.

Freer, John E., and A. J. Thibodeau, to Ford Motor Co. Dynamoelectric machine. 3,041,484, 6–26–62, Cl. 310—68.

Freer, Lester F., to Eastman Kodak Co. Web wind up hub. 3,021,085, 2–13–62, Cl. 242—74.

Free-Roll Tester Corp.: *See*—
Haggadone, L. V. 3,033,018.

Freese, Frank A.: *See*—
Syvertsen, Gordon C., Freese, and Krogstad. 3,065,685.

Freestone, Roland, and M. T. Weir, to Associated Electrical Industries (Woolwich) Ltd. Production of wafers of semiconductor material. 3,054,709, 9–18–62, Cl. 156—17.

Freez-King Corp.: *See*—
Conto, Armando F. 3,065,611.

Fregeolle, Oscar, to Draper Corp. Yarn controlling device. 3,024,635, 3–13–62, Cl. 66—140.

Fregeolle, Oscar, to Draper Corp. Pattern mechanism for knitting machines. 3,025,688, 3–20–62, Cl. 66—154.

Frei, Arthur J., and W. G. Kniffin, to General Motors Corp. Ice block maker. 3,059,277, 6–19–62, Cl. 62—71.

Frei, John, and C. F. Haase, to Ekco Products Co. Trousers stretcher and creaser lock. 3,018,122, 1–23–62, Cl. 287—58.

Frei, Karl, to Werner & Pfleiderer. Quick-release fastening device for a dispersion mixing machine. 3,062,575, 11–6–62, Cl. 292—256.73.

Freiberger, Arnold: *See*—
Lacks, Hyman, Quatinetz, and Freiberger. 3,030,797.

Freibott, Leonard W., to Crown City Die Casting Co. Adjustable mounting flanges for valves. 3,067,436, 12–11–62, Cl. 4—252.

Freier, Benno, and A. Marter, to Esso Standard Societe Anonyme Francaise. Non-gassing insulating oils. 3,036,010, 5–22–62, Cl. 252—063.

Freier, Joachim: *See*—
Ossenbrunner, Armin, Schnell, Klockgether, Geiger, and Freier. 3,023,101.

Freihofer, Charles A. Method of measuring and summing time function data. 3,051,388, 8–28–62, Cl. 235—184.

Freiling, Harry J. Fruit cutters. 3,051,206, 8–28–62, Cl. 146—73.

Freiman, Aaron: *See*—
Tesoro, Giuliana C., Valko, and Freiman. 3,070,552.

Freiman, David J., to Corning Glass Works. Pouring vessel lid. 3,028,034, 4–3–62, Cl. 215—63.

Freiman, David J., to Corning Glass Works. Handle assembly. 3,058,768, 10–16–62, Cl. 294—31.2.

Freire, Antonio C. Clothes washing machine having squeezing means to extract liquid. 3,049,905, 8–21–62, Cl. 68—21.

Freise, William G.: *See*—
Arnett, Leslie, and Freise. 3,015,419.

Freisinger, John S., to American Radiator & Standard Sanitary Corp. Fluid line thermostat. 3,070,311, 12–25–62, Cl. 236—34.5.

Freist, Manfred, to VEB Industriewerke Karl-Marx-Stadt. Control valve assembly for fluid operated systems. 3,017,862, 1–23–62, Cl. 121—41.

Freitag, Walter H.: *See*—
Cook, Charles A., and Freitag. 3,048,247.

Freitag, Walter O., and E. C. Evers, to United States of America, Navy. Method for preparation of silicon-cyanide compounds. 3,032,575, 5–1–62, Cl. 260—448.2.

Freitas, Manuel P., and W. H. Howe, to The Foxboro Co. Computer-controller set point system. 3,034,718, 5–15–62, Cl. 235—151.

Frellsen, Carlton B., to Joy Mfg. Co. Tension control device. 3,015,473, 1–2–62, Cl. 254—172.

Fremlee Development Corp.: *See*—
Eriksson, Ernst A. 3,024,883.

Fremont, Herbert, and H. N. Parker, to Calbest Engineering & Electronics Co. Multiplex transmission and reception system for stereophonic material. 3,068,321, 12–11–62, Cl. 179—15.

French, Albert S., to The Van Dorn Iron Works Co. Quenching fixture. 3,033,548, 5–8–62, Cl. 266—6.

French, Alfred G., Jr., to Houdaille Industries, Inc. Dual pump unit to supply different hydraulic pressures for engine and transmission. 3,034,288, 5–15–62, Cl. 60—12.

French, Alfred W., to The French Oil Mill Machinery Co. Expressing apparatus and method. 3,067,672, 12–11–62, Cl. 100—75.
French, Alton A. Wild game feeder. 3,034,480, 5–15–62, Cl. 119—56.
French, Andrew : *See*—
Thomas, Stanley N. G., and French. 3,033,975.
French, Damas J. Hitch mechanism. 3,028,177, 4–3–62, Cl. 280—411.
French, Edward P., and S. J. Minton, to The Marquardt Corp. Acoustic buzz suppressor. 3,046,733, 7–31–62, Cl. 60—35.6.
French, Elby, to O. K. Rubber Welders, Inc. Tire repair stand. 3,039,144, 6–19–62, Cl. 18—18.
French, Frederic A. : *See*—
Evans, Evan C., III, and French. 3,035,445.
French, George H. : *See*—
Guneratne, Piyatilleke P., Young, and French. 3,051,-641.
French, Gordon H., to The Upjohn Co. Separation of novobiocin. 3,068,221, 12–11–62, Cl. 260—210.
French, Harry A. Clampless ear-fitting support for an ear adornment. 3,053,061, 9–11–62, Cl. 63—14.
French, Henry C. : *See*—
Bryan, Mac B., and French. 3,042,238.
French, Heyward A. : *See*—
Ferrar, Robert C., and French. 3,048,840.
French, Hobert W., Jr., to American Optical Co. Stereoscopic attachment for viewers. 3,062,099, 11–6–62, Cl. 88—40.
French, Hobert W., Jr., H. A. Maier, and J. L. Brookhart, to American Optical Co. Microscope stages. 3,019,708, 2–6–62, Cl. 88—39.
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Schneider, William S., and French. 3,051,368.
French, James A. T., to Her Majesty's Postmaster General. Electric pulse generating systems. 3,032,747, 5–1–62, Cl. 340—172.5.
French, John F., to FMC Corp. Apparatus for processing products in sealed containers. 3,067,850, 12–11–62, Cl. 198—24.
French, John F., and J. Boyce, to FMC Corp. Apparatus for processing products in sealed containers. 3,031,065, 4–24–62, Cl. 198—106.
French, John L., to Deere & Co. Scrapers. 3,069,791, 12–25–62, Cl. 37—145.
French, John L., C. G. Termont, and J. C. Gunn, to Deere & Co. Loader bucket leveling control. 3,032,215, 5–1–62, Cl. 214—140.
French, John S., Jr. Trailer electrical connector. 3,059,073, 10–16–62, Cl. 200—51.09.
French, Merle P. Scaffolding attachment member. 3,054,630, 9–18–62, Cl. 287—53.5.
French Oil Mill Machinery Co., The : *See*—
Burner, Andre H., and Symes. 3,037,445.
French, Alfred W. 3,067,672.
Stacy, Thomas F. 3,070,003.
Upton, Charels B. 3,021,201.
French, R. T., Co., The : *See*—
Westgate, Oscar L. 3,018,931.
French, Richard W., to Tinius Olsen Testing Machine Co. Low frequency pickup. 3,026,428, 3–20–62, Cl. 310—19.
French, Thomas, & Sons Ltd. : *See*—
Curran, James. 3,030,724.
French, Walter K., to International Business Machines Corp. Display device. 3,054,203, 9–18–62, Cl. 40—28.
French, William B. Pedestal type base. 3,062,494, 11–6–62, Cl. 248—158.
Frenk, Helmüth, to Ernst Leitz Gesellschaft mit beschrankter Haftung. Shutter for photographic apparatus. 3,020,816, 2–13–62, Cl. 95—58.
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Frenkel, Meyer S., and Meyer. 3,044,716.
Frenkel, Lothar, to Tektronix, Inc. Cathode ray tube having post acceleration. 3,023,336, 2–27–62, Cl. 313—78.
Frenkel, Marvin A., and R. M. Burton ; said Burton assor. to said Frenkel. Automatically controlled heat transfer imprinter. 3,024,557, 3–13–62, Cl. 156—359.
Frenkel, Meyer S., and P. Meyer, to Frenkel C-D, Aktiengesellschaft. Pulverising mills. 3,044,716, 7–17–62, Cl. 241—103.
Frensch, Heinz, H. Goebel, and M. Czech, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Extermination of undesired fishes. 3,060,085, 10–23–62, Cl. 167—46.
Frentzel, Herman C., to Hansen Glove Corp. Automatic tool control mechanisms. 3,026,834, 3–27–62, Cl. 112—219.
Frentzel, Herman C. Differential. 3,049,943, 8–21–62, Cl. 74—711.
Frenzel, Friedrich R. Method and apparatus for dyeing textile articles. 3,032,383, 5–1–62, Cl. 8—150.
Frenzl, Otto, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Wind tunnels. 3,049,005, 8–14–62, Cl. 73—147.
Frerich, Rudolf, to Stoecker & Kunz G.m.b.H. Refractory ceramic pipe for fusible material. 3,044,499, 7–17–62, Cl. 138—143.
Frerichs, Hans-Günther : *See*—
Reher, Helmut, and Frerichs. 3,026,380.
Frerichs, Reinhard, Marcel, to Meßna S.A. Mechanism for adjusting the length of stitch on a sewing machine. 3,022,756, 2–27–62, Cl. 112—210.
Frese, Albert, F. Broich, and P. Kränzlein, to Chemische Werke Huls Aktiengesellschaft. Process for the treatment of low pressure polyolefines. 3,043,825, 7–10–62, Cl. 260—93.7.
Freuchtel, Charles A. Oil mileage indicator with automatic reset apparatus. 3,054,558, 9–18–62, Cl. 235—95.
Freud, Herbert M. D. J. F., to Framalite. Process for improving the opacity of cellulose. 3,043,740, 7–10–62, Cl. 162—181.
Freud, Marcus L. : *See*—
Stephen, Willard R. 3,052,416.
Freudenberg, Carl, Kommanditgesellschaft auf Aktien, Firma : *See*—
Böe, Hans. 3,034,922.
Fahrbach, Erich, and Heling. 3,069,304.
Fahrbach, Erich, Lauppe, Schabert, Heling, and Nottebohm. 3,069,305.
Nottebohm, Carl-Ludwig, Schabert, and Burk. 3,035,943.
Freudenheim, Herbert. Reading and evaluation of tabular information. 3,026,028, 3–20–62, Cl. 235—61.6.
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Burgess, William H., Jr., Calehuff, and Freuler. 3,066,-067.
Calehuff, Girard L., and Freuler. 3,066,068.
Freund, Berthold G. Apparatus for dehydrating food and the like. 3,016,627, 1–16–62, Cl. 34—187.
Freund, Heinz-Eberhard : *See*—
Pieroh, Ernst-Albrecht, Werres, and Freund. 3,049,470.
Freundlich, Clarence. Earring. 3,031,864, 5–1–62, Cl. 63—14.
Freundorfer, Roman, and H. Hoerner. Photomechanical method of producing printing forms. 3,060,027, 10–23–62, Cl. 96—35.
Freure, Benjamin T., and S. W. Tinsley, to Union Carbide Corp. Process for the production of allyl 6-cyanohexanoate. 3,021,356, 2–13–62, Cl. 260—465.4.
Freure, Benjamin T., and H. J. Decker, to Union Carbide Corp. Improved process for the nitrilation of 6-halohexanoic acid esters. 3,024,266, 3–6–62, Cl. 260—464.
Freure, Benjamin T., and H. J. Decker, to Union Carbide Corp. Improved process for the nitrilation of 6-halohexanoic acid esters. 3,026,346, 3–20–62, Cl. 260—464.
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Frevel, Ludo K., and L. J. Kressley, to The Dow Chemical Co. Separation of lithium from lithium bearing micas and amblygonite. 3,032,389, 5–1–62, Cl. 23—31.
Frevel, Ludo K., and L. J. Kressley, to The Dow Chemical Co. Catalytic hydrolysis of carbonyl sulfide. 3,058,800, 10–16–62, Cl. 23—2.
Frey, Albert : *See*—
Hofmann, Albert, and Frey. 3,056,791.
Frey, Arthur : *See*—
Kloepfer, Harry, Frey, Meyer-Simon, and Schrauf. 3,027,230.
Frey, Christian M., to Hercules Powder Co. Gas-generating device. 3,064,423, 11–20–62, Cl. 60—39.47.
Frey, Christoph : *See*—
Mory, Rudolf, and Frey. 3,022,298.
Frey, Christoph, R. Mory, and E. Moser, to Ciba Ltd. Process for the manufacture of dioxazine dyestuffs. 3,036,071, 5–22–62, Cl. 260—246.
Frey, Erik. Multi-purpose code recorder. 3,065,299, 11–20–62, Cl. 178—69.
Frey, Frederick E., to Phillips Petroleum Co. Carbon black process and apparatus. 3,015,543, 1–2–62, Cl. 23—209.4.
Frey, Frederick E., F. W. Crawford, and J. W. Marx, to Phillips Petroleum Co. In situ combustion of lignite. 3,034,580, 5–15–62, Cl. 166—11.
Frey, Friedrich. Process of producing black oxide of iron. 3,036,889, 5–29–62, Cl. 23—200.
Frey, Hans H. : *See*—
Orthner, Ludwig, Herzberg, and Frey. 3,022,263.
Frey, Hermann H., and C. Dörfelt, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Polymeric stannonic acid stabilized polymers containing vinyl chloride. 3,021,302, 2–13–62, Cl. 260—45.5.
Frey, Horst E., to Standard Oil Co. Unsaturated polyester including as reactants benzene tricarboxylic acid and a glycol ether ethyl ether. 3,042,656, 7–3–62, Cl. 260—77.
Frey, Horst E., to Standard Oil Co. Unsaturated polyester resin from certain benzene tricarboxylic acids, alkenediolc acids and glycols. 3,067,179, 12–4–62, Cl. 260—75.
Frey, Hugo : *See*—
Oberlin, Max, and Frey. 3,048,604.
Frey, John A., and J. A. Henrickson, to United States Steel Corp. Spring of coiled flat. 3,035,826, 5–22–62, Cl. 267—1.
Frey, Jost, to Ciba Ltd. Process and apparatus for the manufacture of aluminum chloride. 3,052,518, 9–4–62, Cl. 23—93.
Frey, Louis O. Sighting device for bowlers. 3,029,517, 4–17–62, Cl. 33—64.
Frey, Max, to Guy F. Atkinson Co. Shaft seal. 3,063,725, 11–13–62, Cl. 277—4.
Frey, Otto : *See*—
Mekelburg, Earl F., and Frey. 3,059,072.
Steinhofer, Adolf, Bartholome, Frey, and Nonnemacher. 3,019,272.
Steinhofer, Adolf, Frey, and Nonnenmacher. 3,027,415.
Frey, Paul H., and J. J. Toney, to Sunbeam Corp. Conveying apparatus for sheet material employing fluid support means. 3,062,520, 11–6–62, Cl. 263—8.

Frey, Raymond, to Compagnie Francaise des Matieres Colorantes. New optical bleaching agents of the diamino stilbene series. 3,045,013, 7–17–62, Cl. 260—240.
Frey, Russel M., to Bethlehem Steel Co. Switch point guard rail. 3,063,041, 11–13–62, Cl. 238—32.
Frey, Stuart M., to Ford Motor Co. Flipper roof panel. 3,052,496, 9–4–62, Cl. 296—44.
Freyberg, Adolf, to Joh. Kleinewefers Sohne. Washing machine for washing goods in full width. 3,019,631, 2–6–62, Cl. 68—178.
Freyermuth, Harlan B.: *See*—
Buc, Saul R., Freyermuth, Mayhew, and Randall. 3,062,-830.
Freyermuth, Harlan B., and R. L. Mayhew, to General Aniline & Film Corp. Phthalocyanine dyestuffs. 3,062,-831, 11–6–62, Cl. 260—314.5.
Freyholdt, Helmut A. Method of making heat exchanger. 3,046,639, 7–31–62, Cl. 39—157.3.
Freyholdt, Helmut A. Machine for winding wire or the like. 3,048,341, 8–7–62, Cl. 242—1.
Freystedt, Erich, and R. Nicolaus, to Siemens & Halske Aktiengesellschaft, Electric clock drive. 3,026,458, 3–20–62, Cl. 318—132.
Freytag, Helmut: *See*—
Lober, Friedrich, Freytag, and Pohle. 3,047,546.
Freytag, Helmut, F. Lober, deceased (by L. Lober, heiress), and H. Pohle, to Farbenfabriken Bayer Aktiengesellschaft. Process for the vulcanization of rubber. 3,069,398, 12–18–62, Cl. 260—79.5.
Freytag, Karl-Heinz, and K. Böckmann, to Bayer Aktiengesellschaft, Farbenfabriken. Trisazo dyestuffs. 3,037,013, 5–29–62, Cl. 260—173.
Friant, James E., R. L. McWilliams, and G. P. Ransom, to General Motors Corp. Windshield washer nozzle. 3,017,120, 1–16–62, Cl. 239—117.
Friant, James E., R. L. McWilliams, and G. P. Ransom, to General Motors Corp. Windshield washer nozzle. 3,059,-857, 10–23–62, Cl. 239—117.
Friberg, Arthur N.: *See*—
Anderson, Edwin V., Mack, and Friberg. 3,034,844.
Friberg, Bengt F. Prestressed concrete structures. 3,022,713, 2–27–62, Cl. 94–24.
Friberg, Karl A. O.: *See*—
Regnell, Carl E. 3,069,692.
Fricioni, Rudolph B.: *See*—
Barteil, David P., Fricioni, and McMahon. 3,027,240.
Frick, Charles E., to Union Carbide Corp. Fluid actuating device. 3,016,840, 1–16–62, Cl. 103—44.
Frick, Charles E., to Union Carbide Corp. Fluid actuating device. 3,039,272, 6–19–62, Cl. 60—62.6.
Frick, Charles E., to Union Carbide Corp. Timer actuating switch. 3,069,514, 12–18–62, Cl. 200—34.
Frick, Darrell C., and J. L. Wise, to Chrysler Corp. Leveling apparatus for fluid suspension systems. 3,027,176, 3–27–62, Cl. 280—124.
Frick, Gilbert R., to Socony Mobil Oil Co., Inc. Apparatus for inserting tools into submarine open bore holes. 3,025,916, 3–20–62, Cl. 175—7.
Frick, John G., Jr.: *See*—
Reinhardt, Robert M., Frick, Arceneaux, and Reid. 3,015,584.
Vail, Sidney L., Frick, and Reid. 3,015,583.
Frick, John G., Jr., to United States of America, Agriculture. Wrinkle resistance treatment for cellulosic textile materials. 3,028,264, 4–3–62, Cl. 117—139.4.
Frick, Norval, to Aerpat A.G. Connector. 3,053,559, 9–11–62, Cl. 287—119.
Frick, Wilhelm E., and W. Stammbach, to J. R. Geigy A.G. Aryl sulphonamide insecticides. 3,034,955, 5–15–62, Cl. 167—37.
Fricke, Erwin, and H. Damm, to A. Lohrer. Automatic control valve for use in connection with the raising of sunken bodies. 3,070,112, 12–25–62, Cl. 137—102.
Fricke, George H., to Strong Cobb Arner, Inc. Tablet sorting device. 3,064,808, 11–20–62, Cl. 209—82.
Fricke, Gerald J., and E. MacDonald. Garden carryall and snow remover. 3,023,021, 2–27–62, Cl. 280—47.34.
Fricke, Wilhelm: *See*—
Tonnies, Eduard, and Fricke. 3,060,685.
Frickert, Philip J., to Owens-Corning Fiberglas Corp. Method and apparatus for processing heat-softenable materials. 3,049,754, 8–21–62, Cl. 18—8.
Frickert, Philip J., to Owens-Corning Fiberglas Corp. Method of producing bulk strand product integrated at spaced zones. 3,056,713, 10–2–62, Cl. 156—167.
Frickert, Philip J., Jr., R. G. Russell, and G. E. Smock, to Owens-Corning Fiberglas Corp. Method and apparatus for forming cloth-like mats of oriented continuous strands. 3,039,169, 6–19–62, Cl. 28—1.
Frico Products Corp.: *See*—
Deibel, Raymond A., and Scinta. 3,044,095.
Friddell, James F., to Stewart & Stevenson Services, Inc. Safety shutdown apparatus. 3,056,393, 10–2–62, Cl. 123—41.15.
Friden, Inc.: *See*—
Ashley-Wing, Herbert H. 3,040,784.
Chall, Harold J. 3,036,763.
Chall, Harold J., and Brunner. 3,021,055.
Chall, Harold J., and Foreman. 3,055,579.
Davis, Elwood A., and Plunkett. 3,032,263.
Ellerbeck, Grant C. 3,030,018.
Ellerbeck, Grant C. 3,062,439.
Friden, Inc.: *See*—Continued
Malavazos, Arthur J. 3,045,907.
Malavazos, Arthur J., and Jamieson. 3,022,948.
Malavazos, Arthur J., and Urdal. 3,066,864.
Moody, John L. 3,036,768.
Silverman, Bernard P., Cordes, and Maurer. 3,054,556.
Viola, Vito, and Olson. 3,022,947.
Fridge, Clifford V. Boats. 3,026,839, 3–27–62, Cl. 114—66.5.
Fridolph, Maude C. Girdle. 3,016,901, 1–16–62, Cl. 128—548.
Fridolph, Maude C. Girdle. 3,065,753, 11–27–62, Cl. 128—548.
Fridolph, Maude C. Girdle. 3,065,754, 11–27–62, Cl. 128—548.
Fridrich, Egon, to Rieker & Co. Shoe with vulcanized outsole. 3,026,636, 3–27–62, Cl. 36—14.
Fridrich, Elmer G.: *See*—
Wiley, Emmett H., and Fridrich. 3,025,424.
Fridrich, Elmer G., to General Electric Co. Apparatus for laminating an electroluminescent cell lay-up. 3,047,052, 7–31–62, Cl. 156—580.
Fridrich, Elmer G., to General Electric Co. Electric discharge lamp electrode. 3,067,357, 12–4–62, Cl. 313—223.
Frieberg, Davis. Foldable invalid chair. 3,061,365, 10–30–62, Cl. 297—5.
Fried, Benjamin. Yarn storage and feeding system for circular knitting machines. 3,018,645, 1–30–62, Cl. 66—125.
Fried, John: *See*—
Arth, Glen E., and Fried. 3,046,094.
Fried, John, and T. S. Bry, to Merck & Co., Inc. Novel 17α-trifluoropropynyl androstenes and processes. 3,046,273, 7–24–62, Cl. 260—239.55.
Fried, Josef: *See*—
Laskin, Allen I., Fried, and Diassi. 3,063,992.
Toma, Richard W., and Fried. 3,031,477.
Fried, Josef, to Olin Mathieson Chemical Corp. 17-esters of 16β,17β-dihydroxy-progesterone. 3,026,335, 3–20–62, Cl. 260—397.4.
Fried, Josef, to Olin Mathieson Chemical Corp. 9α-halo-11β-oxygenated 1,2-dehydroprogesterones and derivatives thereof. 3,028,383, 4–3–62, Cl. 260—239.55.
Fried, Josef, to Olin Mathieson Chemical Corp. Synthesis of steroids. 3,038,910, 6–12–62, Cl. 260—397.3.
Fried, Josef, to Olin Mathieson Chemical Corp. 12α-halo-16α-hydroxy steroids of the pregnene series. 3,047,595, 7–31–62, Cl. 260—397.45.
Fried, Josef, to Olin Mathieson Chemical Corp. Acetals and ketals of 16,17-dihydroxy steroids. 3,048,581, 8–7–62, Cl. 260—239.55.
Fried, Josef, to Olin Mathieson Chemical Corp. 16α,17α-cyclic esters of steroids of the pregnene series. 3,049,540, 8–14–62, Cl. 260—239.55.
Fried, Josef, to Olin Mathieson Chemical Corp. Cyclocarbonate esters of 16α,17α-dihydroxypregnenes. 3,050,519, 8–21–62, Cl. 260—239.55.
Fried, Josef, to Olin Mathieson Chemical Corp. Synthesis of steroids. 3,050,535, 8–21–62, Cl. 260—397.4.
Fried, Josef, to Olin Mathieson Chemical Corp. 21-phosphates of steroid acetals and ketals. 3,053,834, 9–11–62, Cl. 260—239.55.
Fried, Josef, to Olin Mathieson Chemical Corp. Acetals and ketals of 16α,17α-dihydroxyprogesterones. 3,053,836, 9–11–62, Cl. 260—239.55.
Fried, Josef, to Olin Mathieson Chemical Corp. 16,17-acetal and ketal derivatives of 6α,12α-dihalo-16α,17α-dihydroxy steroids of the pregnane series: and intermediates therefor. 3,053,837, 9–11–62, Cl. 260—239.55.
Fried, Josef, to Olin Mathieson Chemical Corp. 16,17-acetal and ketal derivatives of 16α,17α-dihydroxy-21-halo steroids of the pregnane series. 3,053,838, 9–11–62, Cl. 260—239.55.
Fried, Josef, to Olin Mathieson Chemical Corp. (Lower alkoxy) methyl ether derivatives of steroids and process therefor. 3,062,846, 11–6–62, Cl. 260—397.4.
Fried, Josef, to Olin Mathieson Chemical Corp. 16α,17α-cyclosulfate and cyclosulfite esters of steroids. 3,069,418, 12–18–62, Cl. 260—239.55.
Fried, Josef, to Olin Mathieson Chemical Corp. 16α,17α-cyclocarbonate esters of 16α,17α-dihydroxy steroids. 3,069,420, 12–18–62, Cl. 260—239.55.
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Fried, Josef, and J. E. Herz, to Olin Mathieson Chemical Corp. Synthesis of steroids. 3,022,296, 2–20–62, Cl. 260—239.55.
Fried, Josef, and J. E. Herz, to Olin Mathieson Chemical Corp. 9α,11β-dichloro pregnanes. 3,025,312, 3–13–62, Cl. 260—397.45.
Fried, Josef, and P. A. Diassi, to Olin Mathieson Chemical Corp. Lower alkyl-3(n-pyrrolidyl)-12β-fluoro-Δ3,5,17(20)-pregnatrienes and process for the production thereof. 3,035,048, 5–15–62, Cl. 260—239.5.
Fried, Josef, and J. E. Herz, to Olin Mathieson Chemical Corp. 9 halo-21-fluoro-steroids of the pregnane series. 3,042,690, 7–3–62, Cl. 260—397.45.
Fried, Josef, and G. H. Thomas, to Olin Mathieson Chemical Corp. 16-ethers of 16,17-dihydroxy steroids of the pregnane series. 3,043,855, 7–10–62, Cl. 260—397.45.
Fried, Josef, and J. E. Herz, to Olin Mathieson Chemical Corp. 12-halo and 11,12-epoxy steroids of the pregnane series. 3,047,567, 7–31–62, Cl. 260—239.55.

Fried, Josef, and J. E. Herz. 21-fluoro-Δ^4-pregnene-17α-ol-3,20-dione. 3,050,536, 8–21–62, Cl. 260—397.47.
Fried, Josef, and P. A. Diassi, to Olin Mathieson Chemical Corp. Intermediates and process for the preparation of 12α-halohydrocortisone and esters thereof. 3,054,790, 9–18–62, Cl. 260—239.55.
Fried, Josef, and J. E. Herz, to Olin Mathieson Chemical Corp. Process for hydroxychlorinating $\Delta^9(11)$-steroids. 3,057,886, 10–9–62, Cl. 260—397.45.
Fried, Josef, and R. W. Thoma, to Olin Mathieson Chemical Corp. Microbial process for preparing 6β-hydroxytestololactone. 3,058,889, 10–16–62, Cl. 195—51.
Fried, Joseph W. Tool for deburring, chamfering, back spotfacing, grooving, etc. 3,017,791, 1–23–62, Cl. 77—73.5.
Fried, Joseph W. Tool for deburring, chamfering, back spotfacing, grooving etc. 3,037,406, 6–5–62, Cl. 77—58.
Fried, Walter, to United States of America, Navy. Simulated functional-system demonstrator. 3,047,964, 8–7–62, Cl. 35—10.
Friede & Goldman, Inc.: *See*—
Goldman, Jerome L. 3,038,432.
Friedel, Wolfgang, to Fliessner G.m.b.H. Method and means for packing ropes in folded form into cartons, crates or like containers. 3,059,308, 10–23–62, Cl. 28—21.
Friedenthal, Kenneth J., to United States of America, Navy. Aspect-Doppler sonar system. 3,028,077, 4–3–62, Cl. 235—61.5.
Frieder, Leonard P.: *See*—
Aileo, Jackson A. 3,055,012.
Aileo, Jackson A. 3,055,013.
Aileo, Jackson A. 3,066,305.
Forkel, William C. 3,065,747.
Frieder, Leonard P., and M. J. Fryer, to Gentex Corp. Ballistic helmet and method of making same. 3,018,210, 1–23–62, Cl. 156—228.
Friederich, Herbert: *See*—
Baron, Hubertus, and Friederich. 3,023,230.
Lehnerer, Wolfgang, and Friederich. 3,037,012.
Friedericks, Antonius J. C.: *See*—
Anderson, Charles H. J., and Friedericks. 3,026,408.
Friedheim, Ernst A. H. Arsenic-containing derivatives of dimercaptosuccinic acid. 3,035,052, 5–15–62, Cl. 260—242.
Friedl, Wolfgang R., ¼ to D. L. Batten. Scale attachment for hydraulic lifts. 3,035,650, 5–22–62, Cl. 177—208.
Friedland, Martin, to Wilson Machine Co. Turret punch press. 3,049,038, 8–14–62, Cl. 83—552.
Friedland, Stephen S., J. W. Mayer, and J. S. Wiggins, to Hughes Aircraft Co. Discriminating radiation detector. 3,043,955, 7–10–62, Cl. 250—83.3.
Friedland, Waldo C.: *See*—
Bergman, Donald E., Denison, and Friedland. 3,021,261.
Friedlander, Henry Z., to American Cyanamid Co. Polymerization process. 3,031,721, 5–1–62, Cl. 18—57.
Friedlander, William: *See*—
Bradbury, Cyril H., and Friedlander. 3,061,105.
Friedman, Abraham. Printed circuit. 3,053,929, 9–11–62, Cl. 174—68.5.
Friedman, Alex. Method of molding cushions. 3,068,138, 12–11–62, Cl. 156—212.
Friedman, Allan: *See*—
Gardberg, Joseph. 3,067,660.
Gardberg, Joseph. 3,067,661.
Friedman, Allan. Methods of and apparatus for photocomposing text material. 3,044,374, 7–17–62, Cl. 95—4.5.
Friedman, Arthur E., and E. F. Kennedy, to Air Controls, Inc. Manufacture of blower wheels. 3,041,709, 7–3–62, Cl. 29—156.8.
Friedman, Bernard L., to The Indikon Co., Inc. Electronic flash unit. 3,035,219, 5–15–62, Cl. 320—1.
Friedman, Bernard S., and S. M. Cotton, to Sinclair Research Inc. Ester production. 3,052,698, 9–4–62, Cl. 260—410.9.
Friedman, Daniel D. Insemination method and device. 3,037,508, 6–5–62, Cl. 128—294.
Friedman, David S., to United States of America, Air Force. Automatic power trip switch for a transmitter having high reflective power. 3,069,624, 12–18–62, Cl. 325—151.
Friedman, George J., to Security Storm Lock and Hardware Corp. Door lock. 3,065,624, 11–27–62, Cl. 70—153.
Friedman, Herbert, and T. A. Chubb. Dew point indicator. 3,037,387, 6–5–62, Cl. 73—336.5.
Friedman, Jerome. Engraving apparatus for round work. 3,030,881, 4–24–62, Cl. 101—7.
Friedman, Lester, to Weston Chemical Corp. Polyethylene stabilizers. 3,039,993, 6–19–62, Cl. 260—45.8.
Friedman, Lester, to Weston Chemical Corp. Phosphates and thiophosphates. 3,061,625, 10–30–62, Cl. 260—461.
Friedman, Lester, and H. Gould, to Weston Chemical Corp. Phosphites. 3,047,608, 7–31–62, Cl. 260—461.
Friedman, Lester, and H. Gould, to Weston Chemical Corp. Pentaerythritol phosphite esters. 3,053,878, 9–11–62, Cl. 260—461.
Friedman, Lewis, to United States of America, Atomic Energy Commission. Mass spectrometry. 3,016,459, 1–9–62, Cl. 250—41.9.
Friedman, Louis D., M. L. Rambo, and J. H. Estes, to Texaco Inc. Catalytic hydrogenation of heavy oils such as shale oil. 3,025,231, 3–13–62, Cl. 208—213.
Friedman, Louis D., and L. P. Gaucher, to Texaco Inc. Method for recovering oil from oil shale. 3,051,644, 8–28–62, Cl. 208—11.
Friedman, Mark M., to Fibermold Corp. Bowling pin. 3,044,777, 7–17–62, Cl. 273—82.
Friedman, Mark M., to Pacific Molded Pulley Co., Inc. Bowling pin. 3,048,400, 8–7–62, Cl. 273—82.
Friedman, Max. Sealable container closure. 3,044,651, 7–17–62, Cl. 215—31.
Friedman, Nathan H., to Burton Parsons Chemicals, Inc. Electrically conductive emulsions. 3,027,333, 3–27–62, Cl. 252—521.
Friedman, Paul J. Assembly for employing drier exhaust heat for preheating inlet water. 3,050,867, 8–28–62, Cl. 34—86.
Friedman, Raymond, to Atlantic Research Corp. Rocket motor with fuel extrusion means. 3,023,573, 3–6–62, Cl. 60—35.6.
Friedman, Robert, to Kollsman Instrument Corp. Endbells for extension connectors. 3,023,266, 2–27–62, Cl. 174—75.
Friedman, Robert G., to The National Machinery Co. High speed double blow header. 3,031,698, 5–1–62, Cl. 10—12.5.
Friedman, Robert H.: *See*—
Robinson, Leon H., Jr., and Friedman. 3,070,011.
Friedman, Samuel, to Re-Ly-On Metal Products, Inc. Shoe shining fixture. 3,040,360, 6–26–62, Cl. 15—267.
Friedman, Sol: *See*—
Gilbert, Felix, and Friedman. 3,060,598.
Friedmann, Anton R. J.: *See*—
Dudley, Wray E., Friedmann, and Paullus. 3,038,666.
Friedmann Kommandit-Gesellschaft, Messrs. Alex.: *See*—
Seidl, Friedrich. 3,028,098.
Friedrich, Ed., Inc.: *See*—
Panick, Ed A., Jr., and Lamm. 3,063,255.
Smith, Gerald C., Wiatrek, and Klatt. 3,029,614.
Friedrich, Egon: *See*—
Binder, Hermann, and Friedrich. 3,026,637.
Friedrich, Eugene W., to United States of America, National Aeronautics and Space Administration. Reentry vehicle leading edge. 3,028,128, 4–3–62, Cl. 244—7.
Friedrich, Frank D.: *See*—
Mitchell, Earland R., and Friedrich. 3,044,422.
Friedrich G.m.b.H.: *See*—
Schober, Robert. 3,031,274.
Friedrich, Heinz G.: *See*—
Yarze, Joseph C., and Friedrich. 3,056,659.
Friedrich, Herbert: *See*—
Minsinger, Manfred, and Friedrich. 3,060,220.
Friedrich, John P.: *See*—
Schofield, Charles R., Cowan, and Friedrich. 3,041,360.
Friedrich, Kevin F., to Westinghouse Electric Corp. Electric power translation system. 3,026,466, 3–20–62, Cl. 321—5.
Friedrich, Kevin F., to Westinghouse Electric Corp. Electric power translation system. 3,036,258, 5–22–62, Cl. 321—5.
Friedrich, Ralph E.: *See*—
McCormick, Herbert W., and Friedrich. 3,069,405.
Friedrich, Robert E., and H. J. Lingal, to Westinghouse Electric Corp. Circuit interrupters. 3,033,962, 5–8–62, Cl. 200—145.
Friedrich, Robert E., and J. H. Frakes, to Westinghouse Electric Corp. Terminal-bushing constructions. 3,059,044, 10–16–62, Cl. 174—18.
Friedrich, Robert J.: *See*—
Batchelor, James D., Friedrich, and Yavorsky. 3,018,226.
Baum, Kurt, and Friedrich. 3,018,227.
Gorin, Everett, and Friedrich. 3,051,628.
Gorin, Everett, and Friedrich. 3,051,629.
Friedrichs, Rolf. Thermometer employing magnetic indicating means. 3,054,293, 9–18–62, Cl. 73—371.
Frielinghaus, Klaus H.: *See*—
Kendall, Hugh C., Auer, Bolton, and Frielinghaus. 3,042,303.
Kendall, Hugh C., Auer, Bolton, and Frielinghaus. 3,042,899.
Friend, Carl O.: *See*—
Bell, Robert R., and Friend. 3,033,941.
Friend, Dawson, to Stant Mfg. Co., Inc. Anti-surge vehicle tank cap. 3,067,907, 12–11–62, Cl. 220—44.
Friend, Harry J., and L. Soler, to Emsig Machine Corp. Inspection and buttoning jig. 3,024,952, 3–13–62, Cl. 223—1.
Friend, Hubert E.: *See*—
James, William J., and Friend. 3,054,530.
Friend, Lindsay C., to The Bendix Corp. Gauging apparatus particularly adapted for measurement of small changes in dimensions or displacements. 3,041,733, 7–3–62, Cl. 33—149.
Friend, Neil V., and G. W. Malone, Jr., to General Electric Co. Electrical component retainer. 3,041,571, 6–26–62, Cl. 339—75.
Fries, Dorla: *See*—
Mueller, Eugen, Metzger, and Fries. 3,048,634.
Fries, Gustav, to Research Interests Ltd. Device for rewinding an endless tape. 3,025,012, 3–13–62, Cl. 242—55.19.
Fries, Walter: *See*—
Sinner, Herbert, and Fries. 3,058,916.
Friesen, Peter D., to Modern Hydraulics, Inc. Quick-acting hydraulic jack. 3,028,142, 4–3–62, Cl. 254—1.
Friesenhagen, Engelbert, to Felten & Guilleaume Carlswerk A.G. Press for extruding tubing and the like while avoiding contractions. 3,040,883, 6–26–62, Cl. 207—4.
Frieser, Rudolf G., to Interchemical Corp. Treatment of pigments. 3,015,569, 1–2–62, Cl. 106—26.
Frieser, Rudolf G., and P. A. Scardaville, to Interchemical Corp. Gold colored metallic pigments. 3,067,052, 12–4–62, Cl. 106—290.

Friess, Hans: *See*—
Lohmann, Adalbert, Friess, Hinze, and Schmidt. 3,026,369.
Frigerio, Norman A., to United States of America, Atomic Energy Commission. Metal phthalocyanines. 3,027,391, 3–27–62, Cl. 260—429.1.
Frigo, Arthur P. Gaming table. 3,029,078, 4–10–62, Cl. 273—125.
Frihart, Henry N., and J. J. Krakora, Jr., to Motorola, Inc. Remote control system. 3,041,016, 7–10–62, Cl. 325—392.
Friis-Hansen, Erik. Electrically and manually operable line indicator for copy holders. 3,030,924, 4–24–62, Cl. 120—34.
Friis, Harald T., and H.-G. Unger, to Bell Telephone Laboratories, Inc. Helix wave guide. 3,018,452, 1–23–62, Cl. 333—95.
Frilette, Vincent J., to Socony Mobil Oil Co., Inc. Catalytic conversion in the presence of carbon dioxide promoted crystalline metal aluminosilicates. 3,033,778, 5–8–62, Cl. 208—120.
Frill, AB: *See*—
Bergman, Sune H. 3,038,364.
Frilund, Torleif B. A.: *See*—
Moller, Ragnar O. J., and Frilund. 3,056,263.
Frimmer, Elliot M., to Merlin Tool Corp. Clamping means for use in adjustment of automatic transmission actuating means. 3,059,903, 10–23–62, Cl. 254—1.
Frimodig, Mark M., to Michigan Chemical Corp. Apparatus for the separation of metallic ions by the use of an ion exchange resin. 3,059,777, 10–23–62, Cl. 210—96.
Frin, Claude E. Recorded adapter for phonograph records. 3,042,413, 7–3–62, Cl. 274—42.
Frink, Richard F., and R. R. Puleston. Internally illuminated sign. 3,015,900, 1–9–62, Cl. 40—130.
Frink, Russell E., to Westinghouse Electric Corp. Circuit interrupter. 3,024,331, 3–6–62, Cl. 200—147.
Frint, William R.: *See*—
Caldwell, Ned A., and Frint. 3,050,290.
Frint, William R., to FMC Corp. Preparation of sodium carbonate. 3,028,215, 4–3–62, Cl. 23—63.
Frint, William R., and W. C. Bauer, to FMC Corp. Method for crystallizing a sodium carbonate. 3,037,849, 6–5–62, Cl. 23—300.
Frisbie, Marshall H., to The A. C. Gilbert Co. Conveyor apparatus for transferring toy load articles. 3,019,556, 2–6–62, Cl. 46—243.
Frisby, Thomas M., to Eastman Oil Well Survey Co. Method and apparatus for orienting cores. 3,059,707, 10–23–62, Cl. 175—44.
Frisby, Thomas M., and W. H. Cook, to Eastman Oil Well Survey Co. Knuckle joint. 3,068,946, 12–18–62, Cl. 175—73.
Frisby, Vincent C.: *See*—
Simon, Ralph, Voorhees, Hoess, and Frisby. 3,052,429.
Frisch, Abraham H. Device for illustrating vectors. 3,028,-686, 4–10–62, Cl. 35—34.
Frisch, Erling: *See*—
Sturtz, William E., and Frisch. 3,015,616.
Frisch, Erling, to Westinghouse Electric Corp. Transfer mechanism for nuclear reactors. 3,058,900, 10–16–62, Cl. 204—193.2.
Frisch, Erling, and C. G. Johnson, to United States of America, Atomic Energy Commission. Coupling. 3,034,814, 5–15–62, Cl. 287—103.
Frisch, Kurt C.: *See*—
Damusis, Adolfas, and Frisch. 3,049,513.
Frisch, Martin, J. W. Cartinhour, W. Tinbergren, T. Stern, and G. W. Tidd, to Foster Wheeler Corp. Vapor generator. 3,052,222, 9–4–62, Cl. 122—476.
Frisch, Walter J.: *See*—
Elliott, William F., and Frisch. 3,036,842.
Frischman, Thomas A., to Eaton Mfg. Co. Axle shaft. 3,024,626, 3–13–62, Cl. 64—1.
Frison, David C., 25% to Wallenstein & Spangenberg. Dispensing unit for selectively pouring or sifting pulverulent material. 3,024,950, 3–13–62, Cl. 222—480.
Fristot, Alfred J. Artificial dahlia-like flower. 3,039,220, 6–19–62, Cl. 41—13.
Fritel, Hubert: *See*—
Bertin, Daniel, Locatelli, Mathieu, Muller, and Fritel. 3,052,675.
Nomine, Gerard, Bertin, and Frietel. 3,068,252.
Frith, Donald E. Motor-powered shaver with pivotally mounted cutter assembly. 3,027,635, 4–3–62, Cl. 30—43.
Frito, Co., The: *See*—
Eytinge, Bruce D. 3,026,885.
Fritsch, Daniel, to Hamilton Watch Co. Automatic starting device for automobile clock. 3,050,930, 8–28–62, Cl. 58—28.
Fritsch, Werner: *See*—
Haede, Werner, Middendorf, and Fritsch. 3,059,001.
Ruschig, Heinrich, Haede, and Fritsch. 3,028,400.
Fritsch, Werner, to Farbwerke Hoechst Aktiengesellschaft, vormals Meister Lucius & Bruning. Steroid-21-amino acid esters and process of preparing them. 3,063,988, 11–13–62, Cl. 260—239.5.
Fritsche, Paul A.: *See*—
Pieronek, Valentine R., and Fritsche. 3,030,004.
Fritschen, Leo J., to Iowa State College Research Foundation. Shielded net radiometer. 3,054,841, 9–18–62, Cl. 136—4.
Fritts, Robert W.: *See*—
Fredrick, Russell E., and Fritts. 3,051,767.
Fritts, Robert W., to Minnesota Mining and Mfg. Co. Constant energy source. 3,017,444, 1–16–62, Cl. 236—4.
Fritts, Robert W., to Minnesota Mining and Mfg. Co. Burner-thermoelectric generator assembly. 3,017,445, 1–16–62, Cl. 136—4.
Fritts, Robert W., to Minnesota Mining and Mfg. Co. Thermoelectric generator. 3,023,257, 2–27–62, Cl. 136—4.
Fritts, Robert W., to Minnesota Mining and Mfg. Co. Relay. 3,038,049, 6–5–62, Cl. 200—122.
Fritts, Robert W., to Minnesota Mining and Mfg. Co. Thermoelectrically powered heating system. 3,057,340, 10–9–62, Cl. 126—101.
Fritts, Robert W., to Minnesota Mining and Mfg. Co. Self-aligning arcuate thermoelements. 3,057,939, 10–9–62, Cl. 136—4.
Fritts, Robert W., to Minnesota Mining and Mfg. Co. Thermoelectric generator. 3,057,940, 10–9–62, Cl. 136—4.
Fritts, Robert W., and S. Karrer, to Minnesota Mining and Mfg. Co. Electrical device. 3,022,361, 2–20–62, Cl. 136—4.
Fritts, Robert W., and S. Karrer, to Minnesota Mining and Mfg. Co. Hermetically sealed thermoelectric generator and lead assembly. 3,038,956, 6–12–62, Cl. 174—17.
Fritz, Carroll S., to The Dentists' Supply Co. of New York. Rubber dam holder. 3,018,884, 1–30–62, Cl. 206—83.
Fritz, Charles H., and G. A. Martinek, to Waste King Corp. Food waste removal apparatus. 3,038,172, 6–12–62, Cl. 4—187.
Fritz, Earle, M. H. Bornfleth, and J. M. Bectel, to Swift & Co. Halogenating organic materials. 3,028,403, 4–3–62, Cl. 260—408.
Fritz, Elliot L.: *See*—
Edminster, Robert E., Fritz, Furr, Valehrach, and Weidenhammer. 3,039,682.
Fritz, Gerhard: *See*—
Bottenbruch, Ludwig, Fritz, and Schnell. 3,062,781.
Schnell, Hermann, and Fritz. 3,015,652.
Schnell, Hermann, and Fritz. 3,022,272
Fritz, Gerhard. Preparation of organic silicon compounds. 3,069,451, 12–18–62, Cl. 260—448.2.
Fritz, Henry E., to Union Carbide Corp. Synthesis of 3-indolealkanoic acid compounds. 3,051,723, 8–28–62, Cl. 260—319.
Fritz, Martin, to Daimler-Benz Aktiengesellschaft. Crankshaft construction. 3,064,496, 11–20–62, Cl. 74—596.
Fritz, Wilfred J., to Foster Wheeler Corp. Method and apparatus for quenching high temperature gases. 3,016,981, 1–16–62, Cl. 183—27.
Fritz, William E.: *See*—
Koranda, Clarence J., and Fritz. 3,050,342.
Laviana, Donald W., Fritz, and Cassano. 3,043,922.
Fritz, Williams E., to General Motors Corp. Synchronous motor. 3,032,670, 5–1–62, Cl. 310—164.
Fritz, William E., and D. W. Laviana, to General Motors Corp. Rotary magnetic actuator. 3,054,426, 9–18–62, Cl. 138—46.
Fritz, William H., N. M. Potter, and C. W. Reash, to Union Carbide Corp. Voltage output control means. 3,062,986, 11–6–62, Cl. 315—200.
Fritze, Curtis W.: *See*—
Daniels, Howard L., and Fritze. 3,060,409.
Fritze, Curtis W., to Sperry Rand Corp. Tape guide. 3,032,-246, 5–1–62, Cl. 226—97.
Fritzlen, Thomas L.: *See*—
McLean, John O., Fritzlen, and Hendrick. 3,051,536.
Fritzlen, Thomas L., to Reynolds Metals Co. Propellant system. 3,044,911, 7–17–62, Cl. 149—37.
Fritzlen, Thomas L., to Reynolds Metals Co. Combustion system comprising metal foil and solid perchlorate. 3,056,-701, 10–2–62, Cl. 149—15.
Fritzmeier, Georg, K.G.: *See*—
Schopf, Karl. 3,031,164.
Fritzsche Brothers, Inc.: *See*—
Kulka, Kurt. 3,040,089.
Markus, Richard L. 3,058,995.
Fritzsche, Hanspeter: *See*—
Hirschfeld, Gerhard, Hinz, and Fritzsche. 3,029,944.
Hirschfeld, Gerhard, Hinz, and Fritzsche. 3,035,694.
Hirschfeld, Gerhard, Hinz, and Fritzsche. 3,069,653.
Froberger, Charles F.: *See*—
Rhodes, Herbert O., Jr., and Froberger. 3,057,026.
Froberger, Charles F., to General Motors Corp. Lubricant additive. 3,052,316, 9–4–62, Cl. 184—1.
Froede, Otto: *See*—
Himmelheber, Max, Hagen, and Froede. 3,023,136.
Froede, Walter: *See*—
Wankel, Felix, Froede, and Hoeppner. 3,064,880.
Froede, Walter, and H.-D. Paschke, to NSU Motorenwerke Aktiengesellschaft. Built-up rotors for rotary engines. 3,059,585, 10–23–62, Cl. 103—130.
Froede, Walter G., E. Hoppner, and H.-D. Paschke, to NSU Motorenwerke Aktiengesellschaft and Wankel G.m.b.H. Cooling arrangement for rotary mechanisms. 3,042,069, 7–3–62, Cl. 123—8.
Froedge, Andrew L., to Consolidated Metal Products Co. Method of interconnecting metal chair rounds and legs. 3,058,777, 10–16–62, Cl. 297—440.
Froehlich, Ernst. Heddle for harness frames. 3,016,926, 1–16–62, Cl. 139—93.

Froehlich, Fritz E., to Bell Telephone Laboratories, Inc. Magnetic core circuits. 3,027,547, 3–27–62, Cl. 340—174.
Froehlich, Harold E., to United States of America, Navy. High altitude balloon and method of making the same. 3,041,013, 6–26–62, Cl. 244—31.
Froehlich, Harold E., to United States of America, Navy. Valving duct balloon. 3,041,019, 6–26–62, Cl. 244—99.
Froehlich, Kurt, and E. Grieshaber, to Nordberg Mfg. Co. Two-cycle scavenging system. 3,059,626, 10–23–62, Cl. 123—65.
Froetschner, Carl R. Water level control. 3,060,954, 10–30–62, Cl. 137—122.
Frog Switch & Mfg. Co., The: *See*—
McGrath, William A.
Frohardt, Roger P., R. F. Pittillo, and J. Ehrlich, to Parke, Davis & Co. Chalcomycin and its fermentative production. 3,065,137, 11–20–62, Cl. 167—65.
Frohbach, Louis A., to Chart-Pak, Inc. Forms for printed circuit use or the like. 3,035,690, 5–22–62, Cl. 206—56.
Frohbieter, Edwin H.: *See*—
Linstromberg, William J., and Frohbieter. 3,055,186.
Frohlich, Adolf H., and E. J. Harris, to The Cleveland Trust Co. Tire buffing machine. 3,051,225, 8–28–62, Cl. 157—13.
Fröhlich, Bruno. Device for bearings, especially for increasing the pressure of lubricant liquid between bearing or slip ring surfaces sliding one upon the other. 3,066,990, 12–4–62, Cl. 308—168.
Frohlich, Heinz, to Siemens-Schuckertwerke Aktiengesellschaft. Method for improving the imprintability of synthetic material. 3,057,792, 10–9–62, Cl. 204—165.
Frohlich, Heinz, to Siemens-Schuckertwerke Aktiengesellschaft. Method and device for improving the coatability of synthetic plastics. 3,057,795, 10–9–62, Cl. 204—312.
Frohmader, Stanley H.: *See*—
Onstad, Ragnar E., Shoemaker, Frohmader, and Rowe. 3,031,827.
Frohman, Robert, R. A. Post, Jr., and L. P. Faber, Jr., to Lockheed Aircraft Corp. Patchcord connection aid and checking system. 3,052,842, 9–4–62, Cl. 324—66.
Frohner, Rudolph: *See*—
Smith, William H., Frohner, and Adolphson. 3,070,086.
Froland, Marshall L., to Furnas Electric Co. Connecting device for coupling reset plungers. 3,041,433, 6–26–62, Cl. 200—172.
Froland, Olav, to McGraw-Edison Co. Circuit interrupting device. 3,038,052, 6–5–62, Cl. 200—146.
Froland, Olav, to McGraw-Edison Co. Sectionalizing switch. 3,056,006, 9–25–62, Cl. 200—97.
Frolich, Martin, to Sulzer Freres, S.A. Deep cooling apparatus. 3,069,143 12–18–62, Cl. 257—241.
Fröman, Bengt G. I., to Skanska Attifabriken AB. Preparation of bakery products. 3,057,731, 10–9–62, Cl. 99—91.
Fromer, Stephen. Combination siphon, force cup and pump device. 3,054,418, 9–18–62, Cl. 137—146.
Fromm, Kenneth N., to International Telephone and Telegraph Corp. Radio direction finding system. 3,050,729, 8–21–62. Cl. 343—119.
Fromm, Kenneth N., to International Telephone and Telegraph Corp. Radio direction finding system. 3,061,831, 10–30–62, Cl. 343—121.
Fromm, Leonard W., Jr.: *See*—
Harrer, Joseph M., Fromm, and Kolba. 3,049,487.
Frömmel, Helmut. Simplified process of preparing pure papaverine from crude papaverine. 3,052,682, 9–4–62, Cl. 260—289.
Frommer, Joseph C., to Hurletron Inc. Adjustment circuit for registration control device. 3,031,118, 4–24–62, Cl. 226—28.
Frommer, Joseph C., to Hurletron Inc. Registration detection system. 3,033,109, 5–8–62, Cl. 101—181.
Frommer, Joseph C. Calibrating system for particle sensing machine. 3,045,123, 7–17–62, Cl. 250—218.
Fronko, Michael F., to Koppers Co., Inc. Treatment of expandable polymeric particles. 3,056,753, 10–2–62, Cl. 260—2.5.
Fronmuller, George D., and M. J. Mirra, to A. S. Wiltnebel. Solubilizing copper-8-quinolinolate. 3,033,865, 5–8–62, Cl. 260—270.
Fronsoe, Milton M., Jr. Collapsible bunk bed. 3,054,120, 9–18–62, Cl. 5—9.
Frontier Chemical Co., Division of Vulcan Materials Co.: *See*—
Hirsekorn, Fred S., and Rains. 3,029,297.
Hirsekorn, Fred S., and Rains. 3,029,298.
Frontier Electronics: *See*—
Nerison, James R. 3,023,411.
Froscher, James L., and V. R. Abrams, to Union Carbide Corp. Process for preserving solutions of heat-sensitive material. 3,060,039, 10–23–62, Cl. 99—215.
Frosh, Earl A., ⅓ to R. A. Jay, and ⅓ to C. T. Oviatt. Coin collecting holder. 3,044,606, 7–17–62, Cl. 206—45.31.
Frosst, Charles E., & Co.: *See*—
Gleason, Clarence. 3,032,469.
Lozinski, Ezra. 3,051,624.
Millar, John F., and Findlay. 3,024,257.
Millar, John F., and Lindner. 3,018,221.
Parker, John M., and Wasson. 3,056,828.
Frost, Alan, to Siddeley Engines Ltd. Gas bearings. 3,022,935, 2–27–62, Cl. 230—117.
Frost, Albert E., to The Dow Chemical Co. Alkylene amino phosphonic acid chelating agents. 3,036,108, 5–22–62, Cl. 260—461.
Frost, Bert L.: *See*—
McLaughlin, Asa L., Priesnitz, Haworth, Fleming, Conder, and Frost. 3,052,455.
Frost, Eugene C.: *See*—
Colman, Philip A., and Frost. 3,045,236.
Frost, F. W., (Engineers) Ltd.: *See*—
Turner, Arthur G. 3,041,943.
Frost, Frank E.: *See*—
Shaw, Harmon L., and Frost. 3,061,337.
Frost, Fred. Book holding device. 3,031,795, 5–1–62, Cl. 45—61.
Frost, Harold B., to Bell Telephone Laboratories, Inc. Ionization manometer circuit. 3,058,057, 10–9–62, Cl. 324—33.
Frost, Harriet B. Method of coloring and treating nuts. 3,057,733, 10–9–62, Cl. 99—126.
Frost, Henry J.: *See*—
Walker, John M., Jr. 3,019,502.
Frost, Holloway H., and S. N. Heaps, to Socony Mobil Oil Co., Inc. Nonsymmetrical seismic recording. 3,048,847, 8–7–62, Cl. 346—1.
Frost, John C. M.: *See*—
Dubbury, John, Frost, and Earl. 3,065,935.
Frost, John C. M., to Avro Aircraft Ltd. Vertical take-off aircraft control. 3,020,002, 2–6–62, Cl. 244—15.
Frost, John C. M., to Avro Aircraft Ltd. Radial flow gas turbine engine rotor bearing. 3,024,966, 3–13–62, Cl. 230—116.
Frost, John C. M., to A. V. Roe Canada Ltd. Aircraft with jet fluid control ring. 3,051,414, 8–28–62, Cl. 244—12.
Frost, John C. M., and T. D. Earl, to Avro Aircraft Ltd. Disc aircraft with multiple radially disposed gas turbine engines. 3,018,063, 1–23–62, Cl. 244—15.
Frost, John C. M., and C. J. Williams, to Avro Aircraft Ltd. Disc aircraft with gas turbine and ram jet engines. 3,020,003, 2–6–62, Cl. 244—15.
Frost, John C. M., and T. D. Earl, to Avro Aircraft Ltd. Disc-type aircraft with peripheral jet control. 3,022,963, 2–27–62, Cl. 244—15.
Frost, John C. M., and C. J. Williams, to Avro Aircraft Ltd. Fluid sustained aircraft. 3,051,415, 8–28–62, Cl. 244—23.
Frost, John C. M., and C. J. Williams, to Avro Aircraft Ltd. Aircraft controls systems. 3,051,417, 8–28–62, Cl. 244—79.
Frost, John C. M., to A. V. Roe Canada Ltd. Gas turbined engine aircraft. 3,062,482, 11–6–62, Cl. 244—15.
Frost, John R., to The Dow Chemical Co. Process for preparing coated synthetic fibers from normally crystalline polymers. 3,024,081, 3–6–62, Cl. 18—54.
Frost, Paul: *See*—
Kremp, Rudolf, and Frost. 3,017,805.
Frost, Paul D., to Compagnie du Filage des Metaux et des Joints Curty. Extrusion lubrication. 3,059,769, 10–23–62, Cl. 209—10.
Frost, Ralph I. Paper valve bag applicator for pulverized material. 3,053,027, 9–11–62, Cl. 53—190.
Frost, Raymond B., and E. W. Piatek, to Victaulic Co. of America. Grooved tubing for connection with sleeve type coupling. 3,015,502, 1–2–62, Cl. 285—112.
Frost, Raymond B., and H. J. Sexton, to Victaulic Co. of America. Couplings with pipe gripping means for plain end pipe. 3,024,046, 3–6–62, Cl. 285—104.
Frost, William F.: *See*—
Tomiyasu, Kiyo, and Frost. 3,016,531.
Frost, William G., to General American Transportation Corp. Solids fluidizing vessel and gas diffuser plate and nozzle elements therefor. 3,040,439, 6–26–62, Cl. 34—57.
Frost, William T.: *See*—
Axon, Peter E., Kyffin, and Frost. 3,064,076.
Frostad, George O. Printing apparatus. 3,026,798, 3–27–62, Cl. 101—248.
Frostad, Lars, to The Porter-Cable Machine Co. Power nailing machine. 3,042,924, 7–10–62, Cl. 1—46.
Frostad, Lars, and H. T. De Man, to The Porter-Cable Machine Co. Hand nailer. 3,042,925, 7–10–62, Cl. 1—46.
Frostick, Frederick C., Jr.: *See*—
Phillips, Benjamin, and Frostick. 3,056,802.
Frostick, Frederick C., Jr., and B. Phillips, to Union Carbide Corp. Diepoxy sufone compostions. 3,018,259, 1–23–62, Cl. 260—18.
Frostick, Frederick C., Jr., and B. Phillips, to Union Carbide Corp. Transesterification of 2,3-epoxyalkanoates. 3,048,-601, 8–7–62, Cl. 260—348.
Frostick, Frederick C., Jr., and B. Phillips, to Union Carbide Corp. Resins from 1,2,5,6-diepoxycyclooctane. 3,065,209, 11–20–62, Cl. 260—78.4.
Frouws, Simon M., to North American Philips Co., Inc. Device comprising a gaseous glow-discharge tube. 3,060,340, 10–23–62, Cl. 313—198.
Frouws, Simon M., to North American Philips Co., Inc. Glow-discharge tube having a cold activated cathode. 3,067,353, 12–4–62, Cl. 313—198.
Frouws, Simon M., and J. Horseling, to North American Philips Co., Inc. Glow-discharge indicator tube. 3,054,920, 9–18–62, Cl. 313—109.5.
Frowein, Gustav: *See*—
Berberich, Erich, Gilliam, and Frowein. 3,022,803.
Fruchter, Louis. Three-dimensional forms and method for making the same. 3,057,099, 10–9–62, Cl. 41—34.

Fruehauf Trailer Co.: *See*—
Chieger, George. 3,032,646.
Chosy, Eugene. 3,066,953.
Nolan, James R. 3,040,919.
Schubach, Theodor C. 3,034,824.
Schubach, Theodor C. 3,050,335.
Tantlinger, Keith W. 3,017,501.
Tantlinger, Keith W., and Flagan. 3,061,364.
Tantlinger, Keith W., and Schubach. 3,058,603.

Fruh, Albert, to Appareillage Electrique Hazemeyer. Plug and socket. 3,067,400, 12–4–62, Cl. 339—46.

Fruhwirth, Otto, to Wacker-Chemie G.m.b.H. Process for the production of acetylene and chlorinated hydrocarbons. 3,027,414, 3–27–62, Cl. 260—679.

Fruhwirth, Otto, to Wacker-Chemie G.m.b.H. Process for increasing the catalytic activity of impregnated activated carbon catalysts. 3,034,991, 5–15–62, Cl. 252—428.

Früngel, Frank. Device for heating a ground covering. 3,047,701, 7–31–62, Cl. 219—19.

Frungel, Frank. High-frequency camera with spark illumination. 3,068,358, 12–11–62, Cl. 250—65.

Frushour, Russel E., to Amsted Industries Inc. Drill presses. 3,051,024, 8–28–62, Cl. 77—34.5.

Frushour, Russel E., O. A. Costello, S. E. Farekas, and W. B. Irish, to Amsted Industries Inc. Machine tools. 3,064,540, 11–20–62, Cl. 90—14.

Fruth, Hal F.: *See*—
Sher, Ben C., and Fruth. 3,031,344.
Sher, Ben C., and Fruth. 3,035,944.

Fry, Charles L., to Fry and Co., Inc. Conveyor belt turn. 3,044,603, 7–17–62, Cl. 198—182.

Fry and Co., Inc.: *See*—
Fry, Charles L. 3,044,603.

Fry, Douglas J., and B. A. Lea, to Ilford Ltd. Direct positive emulsions. 3,035,917, 5–22–62, Cl. 96—101.

Fry, Frank J.: *See*—
Fry, William J. and F. J., 3,024,644.
Fry, William J. and F. J., and Dreyer. 3,051,167.

Fry, Horace P., Jr., to American Viscose Corp. Rayon fabric reinforced laminated sheet. 3,051,606, 8–28–62, Cl. 156—229.

Fry, Howard N., to United Engineering and Foundry Co. Device for removing and replacing bearing-chock assemblies. 3,035,335, 5–22–62, Cl. 29—234.

Fry, Howard N., to United Engineering and Foundry Co. Rolling mill entry guide. 3,058,376, 10–16–62, Cl. 80—51.

Fry, Hugh A. Tool attachment for boring bars. 3,064,503, 11–20–62, Cl. 77—58.

Fry, John S., to Union Carbide Corp. Process for preparing polycarbonate resins. 3,035,020, 5–15–62, Cl. 260—47.

Fry, Lyle L., to Lockwood Graders. Digger blade. 3,042,-123, 7–3–62, Cl. 172—720.

Fry, Millard E.: *See*—
Carnahan, Leonard L., Fry, Pearce, and Evans. 3,049,-114.
Carnahan, Leonard L., Fry, Pearce, and Evans. 3,049,-115.

Fry, Millard E., to General Motors Corp. Removable oven liner. 3,036,192, 5–22–62, Cl. 219—35.

Fry, Roderick M. Oil well tubing scraper. 3,047,073, 7–31–62, Cl. 166—176.

Fry, William A., to United States of America, Atomic Energy Commission. Ultra high vacuum valve. 3,036,811, 5–29–62, Cl. 251—160.

Fry, William J. and F. J., to University of Illinois Foundation. Ultrasonic microscope. 3,024,644, 3–13–62, Cl. 73—67.5.

Fry, William J. and F. J., and L. Dreyer, to The University of Illinois Foundation. Timing and sequence control circuitry. 3,051,167, 8–28–62, Cl. 128—24.

Fryba, Josef. Deflection rail contactor. 3,028,485, 4–3–62, Cl. 246—251.

Frye, Cecil L.: *See*—
Sommer, Leo H., and Frye. 3,024,262.

Frye, Cecil L., and W. M. McLean, to Dow Corning Corp. Method of preparing silicone-epoxide resins. 3,055,858, 9–25–62, Cl. 260—42.

Frye, Dorothy N. Seam iron and ironing arm. 3,031,782, 5–1–62, Cl. 38—105.

Frye, Eugene O., to Collins Radio Co. Means for measuring rate of change of frequency. 3,032,715, 5–1–62, Cl. 324—82.

Frye, Richard D.: *See*—
Greiman, George Y., R. D. and R. W. Frye, and Burd. 3,024,677.

Frye, Robert W.: *See*—
Greiman, George Y., R. D. and R. W. Frye, and Burd. 3,024,677.

Frye, Seymour C.: *See*—
Horton, James B., and Frye. 3,036,934.

Fryer, Michael J.: *See*—
Frieder, Leonard P., and Fryer. 3,018,210.

Fryer, William H.: *See*—
Piper, John W., and Fryer. 3,043,197.

Frykhult, Rune H., to Sunds Verkstader Aktiebolag. Towers for treating stock, substantially for the continuous bleaching of cellulose pulp or for the storing of such pulp. 3,053,067, 9–11–62, Cl. 68—181.

Frykland, Robert A.: *See*—
Beebe, John N., and Frykland. 3,036,289.

Frykland, Donald H., to International Business Machines Corp. Cable machine. 3,020,937, 2–13–62, Cl. 140—71.

Frykland, Robert A., to International Buiness Machines Corp. Automatic cable lacing machine. 3,033,102, 5–8–62, Cl. 100—14.

Frykland, Robert A., to Raytheon Co. Cylindrical beam cathode ray tube. 3,058,027, 10–9–62, Cl. 315—18.

Frykland, Robert A., to Raytheon Co. Welding apparatus. 3,064,115, 11–13–62, Cl. 219—78.

Fryling, Charles F., and L. F. Guziak, to Koppers Co., Inc. Composition comprising a styrene-glycidyl methacrylate-ethyl acrylate terpolymer and an epoxy active agent, and metal substrate coated therewith. 3,053,947, 10–16–62, Cl. 260—43.

Fry's Metal Foundries Ltd.: *See*—
Barnes, Allan F. C., Elliott, and Strauss. 3,056,370.

Fubini, Eugene G., to United States of America, Army. Capacitively coupled collinear stripline antenna array. 3,016,536, 1–9–62, Cl. 343—801.

Fuchs, Francis J., Jr., to Western Electric Co., Inc. Apparatus for making zero radius bends in rectangular tubing. 3,017,914, 1–23–62, Cl. 153—20.

Fuchs, Francis J., Jr., to Western Electric Co., Inc. Draw bending apparatus. 3,064,711, 11–20–62, Cl. 153—40.

Fuchs, Johann H.: *See*—
Diehl, Ludwig, and Fuchs. 3,051,537.

Fuchs, Joseph A., Jr.: *See*—
Liberty, Frank J., and Fuchs. 3,061,067.

Fuchs, Julius J., to E. I. du Pont de Nemours and Co. Process for the oxidation of carboxylic esters. 3,068,275, 12–11–62, Cl. 260—468.

Fuchs, Louis, to Airborne Accessories Corp. Energy adsorption device. 3,059,727, 10–23–62, Cl. 188—1.

Fuchs, Otto: *See*—
Alley, Starling K., and Fuchs. 3,030,423.
Dexheimer, Hans, Fuchs, and Schmieder. 3,058,952.

Fuchs, Otto, F. Meininger, and G. Pfeiffer, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Brüning. Reduction of vat dyestuffs. 3,068,240, 12–11–62, Cl. 260—316.

Fuchs, Otto, K.G.: *See*—
Rosenkranz, Wilhelm. 3,037,623.
Schulte, Friedrich W., Wiechell, and Rosenkranz. 3,034,383.

Fuciarelli, Frank. Remote control automotive starting system. 3,054,904, 9–18–62, Cl. 290—37.

Fucinari, Angelo M., and E. L. King, to The H. A. Montgomery Co. Drawing lubricant coating composition. 3,023,163, 2–27–62, Cl. 252—34.7.

Fudaley, Solly L.: *See*—
Duncan, Robert H., Miller, Maciulis, and Fudaley. 3,060,265.

Fuegen, Norman: *See*—
Mashek, Charles A. 3,055,094.

Fuehrer, Arthur G., and E. W. Kessel. Archery gauge. 3,038,262, 6–12–62, Cl. 33—180.

Fuelling, Charles W., Inc.: *See*—
Cook, Robert W. 3,023,762.

Fuentes, Daniel. Metal cleaning composition. 3,047,508, 7–31–62, Cl. 252—99.

Fuerste, William C. Device for implementing the abstinence of cigarette smoking. 3,034,639, 5–15–62, Cl. 206—41.

Fuess, Eugene A. Ellipse template. 3,046,660, 7–31–62, Cl. 33—1.

Fugate, Wesley O.: *See*—
Bikales, Norbert M., and Fugate. 3,067,141.
Morrison, Glenn C., and Fugate. 3,069,458.

Fuge, Harry B., and H. J. Zaorski, to Plastic & Appliance Co., Inc. Device for scheduling fuel delivery. 3,021,629, 2–20–62, Cl. 40—19.5.

Fugere, Dale. Retractible stepladder for vehicles. 3,033,309, 5–8–62, Cl. 182—90.

Fugere, Donald G.: *See*—
Andrews, Carroll A., and Fugere. 3,054,986.

Fuhring, Heinrich, to Bohler & Weber K.G. Apparatus for the chemical cleaning of textiles. 3,065,617, 11–27–62, Cl. 68—12.

Fuhrmann, Johann F. G.: *See*—
Schultze, George R., and Fuhrmann. 3,025,698.

Fuhrmann, Robert: *See*—
Knafo, Guy, Fuhrmann, Neesby, and Babayan. 3,021,-324.

Fuhrwerk, Victor C.: *See*—
Raney, Russell R., and Fuhrwerk. 3,070,006.

Fuji Kagaku Kogyo Kabushiki Kaisha: *See*—
Ishino, Seizo, and Osaka. 3,032,394.

Fuji Photo Film Co. Ltd.: *See*—
Fukuda, Shinro, Goto, Akashi, and Miyake. 3,046,158.
Goto, Hiroshi, and Akashi. 3,047,428.
Ohba, Seiichi, Yonezawa, and Kumai. 3,022,172.
Okada, Eizo. 3,028,951.

Fuji Precision Machinery Co., Ltd.: *See*—
Iida, Hideo, and Nario. 3,064,603.

Fuji Seimitsu Kogyo Kabushiki Kaisha: *See*—
Iida, Hideo, and Nario. 3,064,603.

Fuji Shashin Film Kabushiki Kaisha: *See*—
Fukuda, Shinro, Miyake, Akashi, and Seto. 3,026,215.

Fuji Tsushinki Seizo Kabushiki Kaisha: *See*—
Iwai, Rinzo, and Yasumatsu. 3,027,068.
Takahashi, Hidetoshi, and Yamada. 3,068,464.

Fujihara, Yoshiki to Servicised Products Corp. Joint sealing device. 3,018,703, 1–30–62, Cl. 94—18.

Fujihashi, Seitaro, to Kyoto Machinery Co., Ltd. Apparatus for air-tightly leading textile fabrics into or out of a pressure chamber. 3,066,518, 12–4–62, Cl. 68—5.

Fujii, Kiichi, M. Oda, J. Arita, K. Sakai, and M. Takeda, to Tanabe Seiyaku Co., Ltd. Bis(acetaldehyde) bis(threoninato) copper and process of preparation thereof. 3,037,998, 6–5–62, Cl. 260—438.

Fujii, Kiichi, M. Oda, J.-I. Arita, K. Sakai, and M. Takeda, to Tanabe Seiyaku Co., Ltd. Isolation of threonine and allothreonine from their mixture. 3,068,281, 12–11–62, Cl. 260—534.

Fujii, Tadakuni, to Nippon Electric Co., Ltd. Electron beam tube magnetic focusing device. 3,054,015, 9–11–62, Cl. 315—3.5.

Fujimaki, Itsuo : *See*—
Yabuta, Teijiro, Ikeda, Shiroyanagi, Ikeda, Fujimaki, Katayama, Tsuji, and Sato. 3,049,535.

Fujimoto, Akira, J. G. Nordahl, and J. Sandoval, to Sperry Rand Corp. Resettable delay flop having blocking oscillator whose conduction time is determined by capacitor and clamping means. 3,033,994, 5–8–62, Cl. 307—88.5.

Fujimoto, Buheiji. Method of manufacturing nutritious elements and nutritive preparations. 3,048,521, 8–7–62, Cl. 167—74.

Fujimoto, Mike S. : *See*—
Barkman, Aaron, Fujimoto, and Orwig. 3,050,263.
Barkman, Aaron, Fujimoto, and Orwig. 3,055,600.

Fujimoto, Sakae, to Riken Kogaku Kogyo Kabushiki-Kaisha and Nihon Denki Bunka Kogyo Kabushiki Kaisha. Magnetic recording and reproducing machine. 3,046,357, 7–24–62, Cl. 179—100.2.

Fujimoto, Sakae, to Riken Kogaku Kogyo Kabushiki Kaisha and Nikon Denki Bunka Kogyo Kabushiki Kaisha. Device for preparing magnetic record matrix plates in magnetic recording machines of spiral track type. 3,060,940, 10–30–62, Cl. 129—100.2.

Fujimoto, Sumio : *See*—
Tsunoda, Yoshio, Fujimoto, Aishima, and Kobayashi. 3,065,216.

Fujimoto, Yasuo : *See*—
Kamada, Hideo, Wakaki, Shigetoshi, Tomioka, Ueyama, Uzu, Marumo, and Fujimoto. 3,044,935.

Fujimura, Hajime : *See*—
Takahashi, Ogiu, Fujimura, Satoda, Fukui, and Yamamoto. 3,047,573.

Fujioka, Richard T. : *See*—
Kasdorf, Earl W., and Fujioka. 3,021,963.

Fujioka, Richard T., to Chrysler Corp. Method and apparatus for shaping band plastic sheeting. 3,038,208, 6–12–62, Cl. 18—48.

Fujise, Seiichi, N. Nagai, and M. Mitsunaga, to Toyo Koatsu Industries, Inc. Turbulent flow flame synthesis of hydrogen cyanide. 3,063,803, 11–13–62, Cl. 23—151.

Fujishige, Henry Y. : *See*—
Chisholm, Hamilton C., and Fujishige. 3,054,001.

Fujita, Kazuya. Electromagnetic coupling. 3,023,872, 3–6–62. Cl. 192—84.

Fujita, Toshio, to Sanwa Mishin Seizo Kabushiki Kaisha (Sanwa Sewing Machine Mfg. Co., Ltd.). Needle bar for sewing machine. 3,020,866, 2–13–62, Cl. 112—226.

Fujita, Toshio, to Sanwa Mishin Seizo Kabushiki Kaisha (Sanwa Sewing Machine Mfg. Co., Ltd.). Ornamental-stitch changing mechanisms in zigzag stitch sewing machine. 3,041,988, 7–3–62, Cl. 112—158.

Fujiwara, Kotaro : *See*—
Motozaki, Shinichi, Ohno, and Fujiwara. 3,029,280.
Motozaki, Shinichi, Ohno, and Fujiwara. 3,029,281.

Fujiya Electric Co., Ltd. : *See*—
Aoki, Takeshi. 3,065,972.

Fuks, Alexandre, to Societe Parisienne d'Exploitation des Etablissements Georges Duflot. Apparatus for producing a pulsating current. 3,030,526, 4–17–62, Cl. 307—132.

Fukuba, Hiroshi. Dust-cleaner. 3,066,339, 12–4–62, Cl. 15—49.

Fukuda, Masataro, S. Oda, and Y. Katashima, to Matsushita Electric Industrial Co., Ltd. Method for the preparation of plates suitable for use in alkaline batteries. 3,041,388, 6–26–62, Cl. 136—24.

Fukuda, Shinro, T. Miyake, G. Akashi, and M. Seto, to Fuji Shashin Film Kabushiki Kaisha. Process of producing magnetic sound recording material in which co-ni-fe ferrite columnar particles are placed in a direct current magnetic field and oriented by means of an ultrasonic work and afterwards heated and cooled in the direct current magnetic field. 3,026,215, 3–20–62, Cl. 117—93.

Fukuda, Shinro, H. Goto, G. Akashi, and T. Miyake, to Fuji Photo Film Co., Ltd. Process for producing magnetic material. 3,046,158, 7–24–62, Cl. 117—100.

Fukuhara, Henry M. Split flower pot. 3,065,570. 11–27–62, Cl. 47—37.

Fukui, Hatsuaki, and K. Tsujii, to Sony Corp. Binary circuit. 3,061,743, 10–30–62, Cl. 307—88.5.

Fukui, Tomijiro : *See*—
Takahashi, Ogiu, Fujimura, Satoda, Fukui, and Yamamoto. 3,047,573.

Fukuoka, Isamu, to Nichibei Blind Mfg. Co. Ltd. Combination Venetian blind tilter-lifter device. 3,049,175, 8–14–62, Cl. 160—177.

Fukuoka, Naohiko : *See*—
Inoue, Yoshiki, Fukuoka, and Matsumoto. 3,028,339.

Fukushima, Osamu : *See*—
Matsubayashi, Kanji, and Fukushima. 3,053,786.

Fukushima, Osamu, to Kurashiki Rayon Co., Ltd. Method of making fibers of regenerated cellulose of improved dyeing properties. 3,066,032, 11–27–62, Cl. 106—165.

Fukushima, Osamu, and H. Kurashige, to Kurashiki Rayon Co., Ltd. Spinning solution comprising viscose and modified polyvinyl alcohol and process for preparing fibers therefrom. 3,066,107, 11–27–62, Cl. 260—17.4.

Fukushima, Osamu, and K. Matsubayashi, ¾ to Kurashiki Rayon Co., Ltd., and ¼ to Air Reduction Co. Inc. Aqueous solution of polyvinyl alcohol containing insoluble starch derivative and process of preparing fibers therefrom. 3,067,152, 12–4–62, Cl. 260—17.4.

Fukushima, Tomio, to Fukushiki Kaisha Tohoku Kosakusho. Lower thread adjusting apparatus in sewing machines. 3,050,021, 8–21–62, Cl. 112—229.

Fukuyama, Yoshio. Pianoforte. 3,060,783, 10–30–62, Cl. 84—194.

Fulcher, Junius H. Structural device. 3,053,351, 9–11–62, Cl. 189—2.

Fulco, Charles. Packaging apparatus. 3,041,805, 7–3–62, Cl. 53—152.

Fulco, Virginia L., and M. Curran. Curl holder. 3,034,515, 5–15–62, Cl. 132—40.

Fuld Bros., Inc. : *See*—
Fuld, George J., Brogle, and Fuld. 3,021,294.

Fuld, George J., R. C. Brogle, and M. Fuld, to Fuld Brothers, Inc. Floor polish compositions. 3,021,294, 2–13–62, Cl. 260—28.5.

Fuld, Melvin : *See*—
Fuld, George J., Borgle, and Fuld. 3,021,294.

Fulford, James H. : *See*—
Weatherholt, Dallas D., Cherry, and Fulford. 3,019,795.

Fulghum, Oscar T. Log-debarking machine. 3,017,911, 1–23–62, Cl. 144—208.

Fulham, John C. Apparatus for reinforcing crossties. 3,069,-697, 12–25–62, Cl. 1—302.

Fulk, James B. Method and apparatus for making printed forms. 3,069,155, 12–18–62, Cl. 270—18.

Fulk, Richard C. : *See*—
Revell, Donald H., and Fulk. 3,035,316.

Fullemann, John : *See*—
Crooks, William R., and Fullemann. 3,054,269.
Crooks, William R., and Fullemann. 3,054,660.

Fullemann, John, to The Cooper-Bessemer Corp. Centrifugal compressor construction. 3,044,684, 7–17–62, Cl. 230—130.

Fuller, Alfred L. : *See*—
Kohl, Arthur L., and Fuller. 3,039,749.
Kohl, Arthur L., Fuller, and Bailey. 3,031,173.

Fuller Brush Co., The : *See*—
Anderson, Alfred F. 3,048,442.
Bean, John W. 3,016,272.
Bean, John W. 3,017,719.
Bean, John W. 3,027,584.

Fuller, Calvin S., to Bell Telephone Laboratories, Inc. Method of forming semiconductive bodies. 3,015,590, 1–2–62, Cl. 148—1.5.

Fuller, Calvin S., and J. M. Whelan, to Bell Telephone Laboratories, Inc. Treatment of gallium arsenide. 3,070,467, 12–25–62. Cl. 148—1.5.

Fuller Co. : *See*—
Hersh, Lloyd J. 3,054,244.
Kramlich, Richard G. 3,019,057.
Markle, Harry A., Jr., and Morrow. 3,016,849.
Morrow, Joseph H. 3,024,071.
Schlauch, Richard G. 3,043,703.

Fuller, David H., to The Foxboro Co. Fluid line transfer switch. 3,022,673, 2–27–62, Cl. 73—422.

Fuller, Dennis O., to Pye Ltd. Transistor with two base electrodes. 3,059,124, 10–16–62, Cl. 307—88.5.

Fuller, Earl H. : *See*—
Le Febvre, Alfred L., Johnson, and Fuller. 3,032,796.

Fuller, Everett P., Jr. : *See*—
Fuller, Walter C., and E. P. Fuller, Jr. 3,058,784.

Fuller, Frank A. Gate correlated data link system. 3,051,-945, 8–28–62, Cl. 343—6.8.

Fuller, George A., Jr. : *See*—
Phillips, Harry, Maciejowski, Shafer, Tucker, and Fuller. 3,018,594.

Fuller, George W. : *See*—
Darmstadt, Lois J., and Fuller. 3,059,798.
Silver, Jules, and Fuller. 3,052,239.
Silver, Jules, and Fuller. 3,052,240.

Fuller, George W., to The American Thermos Products Co. Threaded stopper expanding pouring lip combination for vacuum bottle. 3,015,403, 1–2–62, Cl. 215—13.

Fuller, Harold B. Work holder for outboard motors. 3,052,333, 5–1–62, Cl. 269—67.

Fuller, Harrison W., S. P. Woodsum, W. T. Darou, Jr., and C. W. Ledin, to Laboratory for Electronics, Inc. Alignment techniques for recording heads assembly. 3,039,102, 6–12–62, Cl. 346—74.

Fuller, Harrison W., and C. W. Ledin, to Laboratory for Electronics, Inc. Magnetic data storage techniques. 3,060,431, 10–23–62, Cl. 346—74.

Fuller, Isaac W. : *See*—
White, Roger E., Fuller, and Davis. 3,049,707.

Fuller, Isaac W., Jr., and N. L. Davis, to United States of America, Navy. Traveling wave tube presentation device. 3,035,264, 5–15–62, Cl. 343—13.

Fuller, James L., and S. A. Loyd, to Acme Visible Records, Inc. Rotary record equipment. 3,056,506, 10–2–62, Cl. 211—1.6.

Fuller, John B., W. S. Moos, and J. C. Plagge. Biological-study cage. 3,063,413, 11–13–62, Cl. 119—18.

Fuller, John D. : *See*—
Stambaugh, Richard H., and Fuller. 3,020,601.

Fuller, John L., P. C. Hungerford, Jr., and W. A. Wickline, to Curtiss-Wright Corp. Speed regulating governors and control mechanisms therefor. 3,023,828, 3–6–62, Cl. 180—82.1.

Fuller, Lawrence J., deceased ; Nancy W. N. Fuller and The Philadelphia National Bank, executors. Gas turbine combustion chamber and method. 3,038,308, 6–12–62, Cl. 60—39.55.

Fuller, Leslie T. Refrigerator. 3,043,116, 7–10–62, Cl. 62—244.

Fuller, Mack F. : *See*—
Downing, Richard M., Fuller, Paddison, and Wyeth. 3,064,073.

Fuller, Merle A. : *See* —
Haas, Willard, and Fuller. 3,037,343.

Fuller-Myers : *See*—
Myers, Elman B. 3,037,139.

Fuller, Nancy W. N. : *See*—
Fuller, Lawrence J. 3,038,308.

Fuller, Paul K., to The Fullwell Motor Products Co., Inc. Merchandising drawer assembly. 3,063,776, 11–13–62, Cl. 312—336.

Fuller, Peter B. R., to The British Thomson-Houston Co. Ltd. Latched stripper means operable to strip work from punch means. 3,033,065, 5–8–62, Cl. 83—131.

Fuller, Richard B. Tensile-integrity structures. 3,063,521, 11–13–62, Cl. 189—34.

Fuller, Richard H., to Pacific Semiconductors, Inc. Voltage-controlled capacitance converter-modulator. 3,023,378, 2–27–62, Cl. 332—52.

Fuller, Richard P., to Craftsmen's Guild. Transparency viewer. 3,064,376, 11–20–62, Cl. 40—63.

Fuller, Verlon M., and D. A. Weaver. Valve and seat grinding tool. 3,021,651, 2–20–62, Cl. 51—241.

Fuller, Walter C., and E. P. Fuller, Jr. Combination handle and tool. 3,058,784, 10–16–62, Cl. 306—1.

Fuller, William E., to Minneapolis-Honeywell Regulator Co. Automatic electrical control apparatus with overshoot control. 3,050,256, 8–21–62, Cl. 236—15.

Fullerton, Thomas J. and W. Schroeder, to Acme Steel Co. Pallet rack. 3,070,237, 12–25–62, Cl. 211—147.

Fullhart, Lawrence, Jr., and D. A. Swalheim, to E. I. du Pont de Nemours and Co. Non-aqueous phosphatizing solution. 3,051,595, 828–62, Cl. 148—6.15.

Fullman Mfg. Co. : *See* —
Kissel, Martin S. 3,027,416.

Fullum, Andre. Nursing bottle holder. 3,049,258, 8–14–62, Cl. 215—11.

Fullwell Motor Products Co., Inc., The : *See*—
Fuller, Paul K. 3,063,776.

Fullwood, R. J., & Bland Ltd : *See*—
Skett, Herbert E., Randall, and Jordan. 3,062,224.

Fulmer, John R. : *See*—
Small, George E., and Fulmer. 3,016,198.

Fulmer, Richard W., to General Mills, Inc. Condensation products of an epoxidized fatty oil and an alkylene polyamine. 3,035,5, 5–15–62, Cl. 260—18.

Fulmer, Robert J., to Bell Telephone Laboratories, Inc. Failure detecting apparatus. 3,042,752, 7–3–62, Cl. 179—15.

Fulminawerk K.G. Franz Mueller : *See*—
Lutz, Herbert. 3,060,762.

Fulop, Walter, to International Standard Electric Corp. Transistors. 3,040,219, 6–19–62, Cl. 317—235.

Fulton, Bertram A., to Borg-Warner Corp. Strut angle gauge. 3,016,750, 1–16–62, Cl. 73—432.

Fulton, George P., and R. S. Lombard, to United Aircraft Corp. Temperature compensated seal. 3,015,504, 1–2–62, Cl. 286—11.13.

Fulton Co., The : *See*—
Beiswenger, John L. 3,060,407.

Fulton, Harry L. Method and apparatus for making connections to lead waste piping. 3,044,527, 7–17–62, Cl. 153—21.

Fulton Iron Works Co. : *See*—
Mellin, Bror G. 3,049,074.

Fulton, James : *See*—
Shannon, James F., Tate, and Fulton. 3,026,745.

Fulton, Leota W. : *See*—
Fulton, Mervin J. 3,045,830.

Fulton, Mervin E. Film developing apparatus. 3,041,953, 7–3–62, Cl. 95—94.

Fulton, Mervin E. Tension-free film developing apparatus. 3,043,206, 7–10–62, Cl. 95—94.

Fulton, Mervin J., deceased ; L. W. Fulton, executrix. Liquid dispersion separating device. 3,045,830, 7–24–62, Cl. 210—232.

Fulton, Nathaniel D., to Hydro-Space Technology Inc. Propulsion system. 3,027,123, 3–27–62, Cl. 244—122.

Fulton, Wadsworth T., to Midland-Ross Corp. Inclined heat treating furnace. 3,027,149, 3–27–62, Cl. 263—6.

Fulton, William, & Sons Ltd. : *See*—
Ruddy, James, and McDonald. 3,028,062.

Fultz, Palmer : *See*—
Harman, Hal W. 3,039,182.
Vogel, Arthur E. 3,036,844.
Vogel, Arthur E. 3,038,739.
Vogel, Arthur E. 3,065,976.

Fumeaux, Angelin, to Societe Anonyme : Ethylene-Plastique. Method and means for retarding the budding and blossoming of plants. 3,060,637, 10–30–62, Cl. 47—1.

Funck, Herbert : *See*—
Maettens, Klaus, Funck, and Gotz. 3,046,679.

Fundamental Research Co. : *See*—
Cheifetz, Howard L., Look, and McLaughlin. 3,065,278.
Hyman, Julius, and Lee. 3,065,277.

Fundamental Research, Inc. : *See*—
Reeves, Edward W. 3,038,002.

Fund-Del Inc. : *See*—
Will, Theodore. 3,033,361.

Funderburg, John W. Cotton picker spindle. 3,037,340, 6–5–62, Cl. 56—50.

Funderburg, Oscar O., Jr. Device for supporting and leveling an air conditioner on a roof. 3,028,135, 4–3–62, Cl. 248—237.

Funk, Clarence M. : *See*—
Voorhees, Edward M. 3,022,693.

Funk, John W. : *See*—
Jones, Richard H., Marczak, and Funk. 3,038,442.

Funk, Max O., to Combustion Engineering, Inc. Bark-type fuel feeder with vibrating proportioning table and flow dividing means. 3,050,202, 8–21–62, Cl. 214—18.38.

Funk, Rudolph. Apparatus for folding flexible sheets. 3,052,464, 9–4–62, Cl. 270—63.

Funke, Helmut : *See*—
Mohrhenkel, Franz, and Funke. 3,015,381.

Funkhouser, John T., and P. C. Yates, to E. I. du Pont de Nemours and Co. Processes for producing dispersions of refractory metal oxides in matrix metals. 3,024,110, 3–6–62. Cl. 75—206.

Funkhouser, Mearick, to General Motors Corp. Telescoping hydraulic shock absorber. 3,041,061, 6–26–62 Cl. 267—8.

Fun Time Plastics, Inc. : *See*—
Hilderbrandt, Edmund P., Fahnrich, and Dylewicz. 3,056,622.

Furane Plastics Inc. : *See*—
Delmonte, John. 3,043,804.

Furby, Dennis W. : *See*—
Schaffer, Jeffrey, and Furby. 3,027,420.

Furby, Neal W., and C. D. Newnan, Jr., to California Research Corp. Stabilized hydraulic fluid composition. 3,019,191, 1–30–62, Cl. 252—78.

Furcyna, Alfons A., to Selas Corp. of America. Furnace conveyor roll. 3,051,460, 8–28–62, Cl. 263—6.

Furey, Lawrence M. Hand covering for volley ball players. 3,052,889, 9–11–62, Cl. 2—161.

Furgal, Henry P. : *See*—
Stankunan, Joachim W., and Furgal. 3,062,655.

Furgal, Henry P., and R. B. Rendek, to Armour and Co. Food package. 3,062,663, 11–6–62, Cl. 99—171.

Furgerson, William T., and G. Samuels, Jr., to United States of America, Atomic Energy Commission. Apparatus for improving hydrodynamic conditions within a conduit. 3,027,143, 3–27–62, Cl. 257—250.

Furguson, Rollin W. : *See*—
Penczek, Edward S., and Furguson. 3,020,175.

Furla, Andre, and G. Chevreux, to D.B.A., Societe Anonyme. Hydraulic systems. 3,064,426, 11–20–62, Cl. 60—52.

Furlong, Elbert B. : *See*—
Adams, William J., Jr., and Furlong. 3,018,785.

Furlong, Donn B., to Acme Die Casting Corp. Spring-impulse engine starter. 3,032,024, 5–1–62, Cl. 123—179.

Furlong, Herschel L., to Cage Bros. Transportation apparatus. 3,052,191, 9–4–62, Cl. 104—135.

Furlong, Norman B., Jr. Disposable blood-gas analyzer. 3,068,855, 12–18–62, Cl. 128—2.

Furman, Frank J., and W. W. Wagner, to International Business Machines Corp. Web feeding and winding device. 3,015,453, 1–2–62, Cl. 242—55.14.

Furman, Frank M. : *See*—
Hardy, William B., Furman, and Hein. 3,049,561.

Furman, Kenneth E. : *See*—
Kurhajec, George A., Johnston, and Furman. 3,047,622.

Furnas Electric Co. : *See*—
Froland, Marshall L. 3,041,433.
Furnas, William C., and Willcox. 3,035,137.

Furnas, Thomas C., Jr., to Picker X-Ray Corporation Waite Mfg. Division, Inc. Diffraction apparatus and method of using same. 3,070,693, 12–25–62, Cl. 250—51.5.

Furnas, William C., and D. F. Willcox, to Furnas Electric Co. Magnetic switch assemblage. 3,035,137, 5–15–62, Cl. 200—104.

Furness, Vera I., to Courtaulds Ltd. Process for making an acrylonitrile polymer solution employing a reducing agent. 3,058,937, 10–16–62, Cl. 260—29.6.

Furness, Vera I., to Courtaulds Ltd. Process for making acrylonitrile polymer solutions employing a reducing agent. 3,060,142, 10–23–62, Cl. 260—29.6.

Furniss, Loree E., to The Buckeye Steel Castings Co. Rotor for railway coupler. 3,056,511, 10–2–62, Cl. 213—133.

Furniss, Loree E., to The Buckeye Steel Castings Co. Attachments for interlocking railway coupler. 3,063,573, 11–13–62, Cl. 213—67.

Furniture Mfg. Co. : *See*—
Sarchia, Chester F. 3,061,373.

Furno, Nicholas. Clothes hanger device. 3,032,243, 5–1–62, Cl. 223—92.

Furon, Leon D. : *See*—
Mitchell, Hugh A., Furon, and Modispacher. 3,036,151.

Furr, Raymond H. Garbage can rack. 3,065,858, 11–27–62, Cl. 211—84.

Furr, Robert J. : *See*—
Edminster, Robert E., Fritz, Furr, Valehrach, and Weidenhammer. 3,039,682.

Furr, Robert J., and E. M. Valehrach, to International Business Machines Corp. Sheet separating apparatus. 3,048,-393, 8–7–62, Cl. 271—34.

Furrer, Jack F. : *See*—
Gardner, Charles N., Furrer, and Murray. 3,050,278.

Fürst, Andor, and E. Kyburz, to Hoffmann-La Roche Inc. Method for the production of isoxazolidones. 3,021,335, 2–13–62, Cl. 260—307.

Fürst, Andor, E. Kyburz, and S. Majnoni, to Hoffmann-La Roche Inc. Process for the manufacture of α-chloro-β-amino carboxylic acid derivatives. 3,038,003, 6–5–62, Cl. 260—482.

Furst, Milton : *See*—
Kalmann, Hartmut P., Furst, and Brown. 3,068,178.

Fürst, Stefan : *See*—
Reiners, Walter, and Fürst. 3,018,888.

Fürst, Stefan, to W. Reiners. Magazine control apparatus for yarn winding machines. 3,016,166, 1–9–62, Cl. 221—209.

Furst, Stefan, to W. Reiners. Cop supply mechanism for winders. 3,023,974, 3–6–62, Cl. 242—35.6.

Fürst, Stefan, to W. Reiners. Needle comb for yarn cleaners. 3,027,620, 4–3–62, Cl. 28—65.

Furst, Stefan, to W. Reiners. Method and apparatus for preparing bobbins. 3,029,031, 4–10–62, Cl. 242—35.6.

Fürst, Stefan, to W. Reiners. Automatic yarn-package winding machine. 3,033,478, 5–8–62, Cl. 242—35.6.

Fürst, Stefan, to W. Reiners. Method for preparing spinning caps for re-winding. 3,034,737, 5–15–62, Cl. 242—35.6.

Fürst, Stefan, to W. Reiners. Multistation coil-winding machine having an automatic servicing unit. 3,035,783, 5–22–62. Cl. 242—35.6.

Furst, Stefan, to W. Reiners. Apparatus for preparing coils of yarn for further fabrication. 3,043,529, 7–10–62, Cl. 242—35.6.

Fürst, Stefan, to W. Reiners. Apparatus for readying the thread coming from a supply coil in rewinding machines. 3,059,865, 10–23–62, Cl. 242—35.6.

Fürst, Stefan, to W. Reiners. Device for readying of yarn ends, particularly in yarn-winding machines. 3,059,867, 10–23–62, Cl. 242—35.6.

Fürst, Stefan, to W. Reiners. Yarn-winding apparatus with rotary yarn guide. 3,059,868, 10–23–62, Cl. 242—43.2.

Furst, Stefan, to W. Reiners. Yarn spool reserve winding apparatus. 3,065,921, 11–27–62, Cl. 242—18.

Fürst, Stefan, to W. Reiners. Apparatus for servicing multistation fabricating machines, particularly yarn winding machines. 3,067,962, 12–11–62, Cl. 242—35.5.

Fürst, Stefan, and W. Reiners, to W. Reiners. Method and means for readying a yarn coil to be unwound. 3,031,149, 4–24–62, Cl. 242—35.6.

Fürst, Stefan, and M. Rühl, to W. Reiners. Multi-station winding machine with servicing unit. 3,061,216, 10–30–62, Cl. 242—35.6.

Furth, Harold P. : *See*—
Baker, William R., Bratenahl, and Furth. 3,029,199.

Furth, Harold P., and E. S. Chambers, to United States of America, Atomic Energy Commission. Plasma energization. 3,024,182, 3–6–62, Cl. 204—193.2.

Furth, John V. : *See*—
Long, John V., Stetson, and Furth. 3,041,206.

Furukawa, Yoshitaka. Clipping device. 3,032,843, 5–8–62, Cl. 24—11.

Furunlywood. Aktiebolaget : *See*—
Raura, Pentti V. 3,036,607.

Furuya, Akira : *See*—
Abe, Shigeo, Furuya, Saito, and Takayama. 3,063,910.

Fury, Arthur M., and C. L. Smith, to International Business Machines Corp. Monitoring apparatus. 3,059,611, 10–23–62, Cl. 118—8.

Fusaroli, Goffredo. Pressure applying devices for the upper rollers of fibre drafting apparatus. 3,056,175, 10–2–62, Cl. 19—267.

Fuschetti, Raymond C. Arm support. 3,049,130, 8–14–62, Cl. 132—1.

Fusco, James V., and S. B. Robison, to Esso Research and Engineering Co. Covulcanizing butyl rubber and a high unsaturation rubber with a 2,6-dihalomethyl alkylphenol resin. 3,029,978, 6–19–62, Cl. 260—5.

Fuse Indicator Corp. : *See*—
Linton, William C. 3,052,781.

Fushimi, Tomiyoshi : *See*—
Yurugi, Shojiro, and Fushimi. 3,016,380.

Fusner, George R. : *See*—
Van Nest, Francis H., and Fusner. 3,043,562.

Fuson, Reynold C., and B. M. Vittimberga, to Rohm & Haas Co. Method for the preparation of diaryl ketones. 3,031,-506, 4–24–62, Cl. 260—591.

Fuson, Robert L., to Hemathermatrol Corp. Apparatus for controlling the temperature of blood during extracorporeal circulation. 3,064,649, 11–20–62, Cl. 128—214.

Fuss, Peter S., to Bell Telephone Laboratories, Inc. Junction transistor pulse generator. 3,069,563, 12–18–62, Cl. 307—88.5.

Fussganger, Rudolf : *See*—
Ruschig, Heinrich, Schorr, Fussganger, Bauer, and Nesemann. 3,057,881.
Schorr, Manfred, Fussganger, Nesemann, and Bauer. 3,054,822.

Futterer, Bodo, and K. Scholzel, to Braun Aktiengesellschaft. Shaving head for dry shavers having a coated cutting edge surface. 3,064,349, 11–20–62, Cl. 30—43.

Futterknecht, Rudolf, to Nassau Distributing Co., Inc. Ionization measurement instrument. 3,038,995, 6–12–62, Cl. 250—83.3.

Future Products, Inc. : *See*—
Gregoire, Resta S., and Simm. 3,040,636.

Futurecraft Corp. : *See*—
Chilcoat, Murray A. 3,017,894.

Futuronic Development Co. : *See*—
Ulrich, William D. 3,015,121.

Fux, Aime, and D. E. Kaplan, to Burroughs Corp. Pneumatic sheet feeding mechanism. 3,041,067, 6–26–62, Cl. 271—27.

Fuzak, George T. Porous waterproof bandage. 3,024,786, 3–13–62, Cl. 128—156.

Fuzere, Robert J. Abduction splint. 3,068,862, 12–18–62, Cl. 128—87.

Fyfe, William A., and A. W. Shore, to Western Electric Co., Inc. Component lead straightener. 3,045,739, 7–24–62, Cl. 153—2.

Fyler, George W., to Zenith Radio Corp. Wave-signal receiver. 3,029,391, 4–10–62, Cl. 328—134.

G & A Laboratories, Inc. : *See*—
Nack, Herman. 3,036,338.

G.D.M. Co. : *See*—
Dey, George E., Sr. 3,016,730.
Dey, George E., Sr. 3,029,030.

G & H Products Corp. : *See*—
Kessler, Joseph S. 3,052,445.

G & K Machine Co., Inc., The : *See*—
Krueger, Thomas L., and Koplin. 3,029,985.

G.M.E. Corp. : *See*—
Appleton, Bernard S., and Jenkins. 3,043,257.

G-M Laboratories, Inc. : *See*—
Burian, Kurt. 3,047,791.
Majershofer, Karl M. 3,065,874.
McMaster, Archie J. 3,034,264.
McMaster, Archie J., Lieberman, and Stastny. 3,054,005.
Skuta, Felix F. 3,015,875.

GPE Controls, Inc. : *See*—
Deering, Joseph M. 3,039,483.
Lasiewicz, Thaddeus W., and Shafer. 3,039,513.
Matteson, Richard J. 3,025,696.
Prell, George A. 3,041,703.
Reip, Raymond G. 3,062,455.

G.Q. Parachute Co, Ltd. : *See*—
Quilter, John R. C. 3,018,074.

G-V Controls Inc. : *See*—
Broekhuysen, William C. 3,056,871.

Gabaldon, Henry : *See*—
Ohms, Conrad A. 3,063,486.

Gabbioneta, Roberto. Means for the support of the rotor in liquid ring rotary pumps. 3,043,497, 7–10–62, Cl. 230—79.

Gabbioneta, Roberto. Rotary liquid ring pump with means for regulating the loading of liquid in the ring. 3,043,498, 7–10–62, Cl. 230—79.

Gaber, Franz : *See*—
Paul, Walter, Geese, Gaber, and Greska. 3,051,799.

Gabler, James B. : *See*—
Goyette, Francis E., and Gabler. 3,021,716.

Gabler, Joseph. Device for holding and delivering pasty substances. 3,059,820, 10–23–62, Cl. 222—340.

Gabler, Rudolf, to Inventa A.G. fur Forschung und Patentverwestung. Process for increasing the frictional resistance between threads, yarns and the like of synthetic linear polyamides and product made thereby. 3,019,132, 1–30–62, Cl. 117—138.8.

Gabler, Rudolf, and H. R. Meyer, to W. R. Grace & Co. Piperazine derivatives. 3,036,076, 5–22–62, Cl. 260—268.

Gabloffsky, Heinz, to Cenco Instruments Corp. Shift error adjustment for beam balances of stabilized pan type. 3,022,-844, 2–27–62, Cl. 177—190.

Gabloffsky, Heinz, to Cenco Instruments Corp. Beam balances. 3,027,958, 4–3–62, Cl. 177—247.

Gabor, Andrew, to Potter Instrument Co., Inc. Solid state controlled rectifier noise reducing circuit. 3,041,478, 6–26–62, Cl. 307—90.

Gabor, Charles D. : *See*—
Snyder, Richard P., Leatham, Gabor, and Pack. 3,060,-000.

Gabor, Dennis, to Minnesota Mining & Mfg. Co. Magnetic recording devices. 3,064,087, 11–13–62, Cl. 179—100.2.

Gabor, Dennis, and B. B. Bauer, to Minnesota Mining & Mfg. Co. Magnetic recording medium. 3,052,567, 9–4–62, Cl. 117—76.

Gabor, William D., to Trak Electronics Co., Inc. Controllable inductor apparatus. 3,064,219, 11–13–62, Cl. 336—155.

Gabriel, Effie. Portable shelter. 3,042,053, 7–3–62, Cl. 135—5.

Gabriel, Fred C., to C.G.S. Laboratories, Inc. Isolator system. 3,030,584, 4–17–62, Cl. 328—209.

Gabriel, Gerhard, to Trumpf & Co. Cooling, lubricating, and chip removing system for nibbling machines. 3,041,905, 7–3–62, Cl. 83—100.

Gabriel, Henry, to Phillips Petroleum Co. Printing thermoplastics. 3,057,098, 10–9–62, Cl. 41—26.

Gabriel, Melvin D. Rack. 3,039,618, 6–19–62, Cl. 211—132.

Gabriel, Peter : *See*—
Dillon, Edward M. 3,063,180.

Gabriele, Edoardo: *See*—
Gorini, Settimio. 3,051,122.
Gabrielsen, Bramwell W., and J. E. Dye. Springboard. 3,058,743, 10–16–62, Cl. 272—66.
Gabrielsen, Christian, H. Vorperian, and A. W. Sukovich, to Rowe Mfg. Co., Inc. Electric console cigarette merchandising machine. 3,019,941, 2–6–62, Cl. 221—109.
Gabrielsen, Harold M. Amusement device. 3,053,535, 9–11–62, Cl. 272—757.
Gach, Peter P., to Sunbeam Plastics Corp. Dispensing container with tamperproof replaceable cap. 3,037,672, 6–5–62, Cl. 222—182.
Gackl, Leonard W., to Medical Metals Inc. Film processing and developing apparatus. 3,019,717, 2–6–62, Cl. 95—96.
Gacs, Peter T., to National Steel Corp. Ventilating tunnel. 3,033,098, 5–8–62, Cl. 98—56.
Gadd, Raymond C. S., to Blackburn Aircraft Ltd. Probes for use in refuelling aircraft in flight. 3,032,300, 5–1–62, Cl. 244—135.
Gadd, Ronald O. C., to United Shoe Machinery Corp. Machines for attaching flap portions of loose outsoles to the breasts of loose Louis heels. 3,056,149, 10–2–62, Cl. 12—16.4.
Gaddie, John D. Bean grading apparatus. 3,061,094, 10–30–62, Cl. 209—12.
Gaddini, Louis D. Combination cutting and transferring device. 3,053,203, 9–11–62, Cl. 107—47.
Gaddis, Malcolm R., and I. L. Baumann. Dynamic brake. 3,054,037, 9–11–62, Cl. 318—367.
Gaddy, Nelson D. Surgical cast-forming material. 3,054,399, 9–18–62, Cl. 128—90.
Gade, Marvin F., and G. G. M. Eastwood, to Kimberly-Clark Corp. Control system for paper machine driers. 3,016,622, 1–16–62. Cl. 34—48.
Gaden, Elmer L., Jr., and R. W. Schnepf, to Radiation Applications, Inc. Separation of dissimilar metal ions. 3,054,746, 9–18–62, Cl. 210—44.
Gaden, Elmer L., Jr., and R. W. Schnepf, to Radiation Applications, Inc. Method of separating non-surface active ionic materials from solution. 3,054,747, 9–18–62, Cl. 210—44.
Gadget-Of-The-Month Club, Inc.: *See*—
Archer, Warren and G. C. 3,022,897.
Bischoff, Anton. 3,052,362.
Boynton, Bob C. 3,044,080.
Clark, Alexander. 3,026,616.
Conrad, Gyle D. 3,045,833.
Dzienisiewicz, Joseph E. 3,017,059.
Germick, Willard D. 3,042,467.
Gleason, Jay L. 3,043,049.
Gleason, Jay L. 3,064,274.
Gleason, Jay L. 3,064,699.
Griffin, Roxy. 3,016,277.
Haapala, Arthur B. 3,019,721.
Hollister, Alice E. and W. E. 3,028,822.
Hurless, Bernard F. 3,015,448.
Kiker, Charles W., Jr. 3,032,001.
Kowalczyk, Walter. 3,021,185.
Lindbloin, Eva M. 3,027,014.
Maggio, Paul J., and Davison. 3,026,126.
Moberg, Wilfred G. 3,029,897.
Nielsen, Ralph P. 3,020,368.
Peterson, Walter G., and Cadwallader. 3,016,647.
Riendeau, Thomas W. 3,033,629.
Shobe, Chester L. 3,070,114.
Stall, Cash G. 3,015,895.
Tracy, Abbie V. 3,052,391.
Voll, Samuel T. 3,032,913.
Voll, Samuel T. 3,032,938.
Walker, Irvin V. 3,042,151.
Weaver, George N. 3,021,164.
Woodsick, Bruno J. 3,057,342.
Gadsby, Robert C.: *See*—
Schwaiger, Frank H., Gadsby, and Schwaiger. 3,033,762.
Gaensslc, Paul W., to The Budd Co. Railway car brakes. 3,034,599, 5–15–62, Cl. 188—59.
Gaertner, Hans, and E. Reich, to Ciba Ltd. Process for the manufacture of solutions. 3,018,155, 1–23–62, Cl. 8—83.
Gaertner, Van R.: *See*—
Schisla, Robert M., and Gaertner. 3,031 373.
Gaertner, Van R., to Monsanto Chemical Co. Succinimide compounds. 3,029,250, 4–10–62, Cl. 260—326.5.
Gaertner, Van R., to Monsanto Chemical Co. Sugar ethers. 3,048 577, 8–7–62, Cl. 260—209.
Gaertner, Van R., to Monsanto Chemical Co. Process for preparing carbohydrate mono-esters. 3,053,830, 9–11–62, Cl. 260—234.
Gaertner, Van R., and R. M. Schisla, to Monsanto Chemical Co. Bis(8-quinolyl carbonate) derivatives. 3,025,215, 3–13–62, Cl. 167—33.
Gaertner, Wolfgang W., and M. Y. Schuller, to United States of America, Army. Three zone negative resistance junction diode having a short circuit across one of the junctions. 3,040,188, 6–19–62, Cl. 307—88.5.
Gaerttner, Erwin R., and R. G. Heaton, to United States of America, Navy. Beacon distress signal. 3,054,099, 9–11–62, Cl. 343—6.5.
Gaetani, Ermanno, to Aziende Colori Nazionali Affini ACNA S.p.A. Tris azo dyes. 3,028,376, 4–3–62, Cl. 260—169.
Gaetani, Ermanno to Aziende Colori Nazionali Affini ACNA S.p.A. Disazo dyes. 3,045,004, 7–17–62, Cl. 260—186.
Gaetani, Ermanno, to Agiende Colori Nazionali Affini ACNA S.p.A. Dis azo dyes. 3,049,532, 8–14–62, Cl. 260—191.
Gaeth, Rudolf: *See*—
Baumeister, Wilhelm, Gaeth, Haarer, and Schwarz. 3,044,970.
Gaeumann, Ernst: *See*—
Prelog, Vladimir, Gaeumann, and Wettstein. 3,055,807.
Gaeumann, Ernst, H. Bickel, and E. Vischer, to Ciba Pharmaceutical Products Inc. Process for the manufacture of new antibiotics. 3,033,760, 5–8–62, Cl. 195—80.
Gaeumann, Ernst, V. Prelog, and A. Wettstein, to Ciba Corp. Cinerubins A and B, their aglycone cinerubinone and their production. 3,039,924, 6–19–62, Cl. 167—65.
Gaffney, John F.: *See*—
Rowley, Russell A., Adams, and Gaffney. 3,021,069.
Rowley, Russell A., Adams, and Gaffney. 3,046,527.
Gagan, Richard H., to General Motors Corp. Time delay switch. 3,060,290, 10–23–62, Cl. 200—82.
Gagnebin, Dmitry M., to Deering Milliken Research Corp. Buffs and buff fabrics. 3,027,247, 3–27–62, Cl. 51—297.
Gage, Jack G., to Pembroke Carton & Printing Co. Ltd. Carton folding machines. 3,038,388, 6–12–62, Cl. 93—51.
Gage, Lonnie L. Dual completion packer tool. 3,024,846, 3–13–62, Cl. 166—226.
Gage, Robert M.: *See*—
Skinner, George M., and Gage. 3,024,350.
Gage, Robert M., to Union Carbide Corp. Arc process and apparatus. 3,050,616, 8–21–62, Cl. 219—69.
Gage, Robert M., to Union Carbide Corp. High intensity light source. 3,064,153, 11–13–62, Cl. 313—22.
Gage, Robert M., O. H. Nestor, and D. M. Yenni, to Union Carbide Corp. Collimated electric arc-powder deposition process. 3,016,447, 1–9–62, Cl. 219—76.
Gager, Charles H.: *See*—
Fowler, Charles A., and Gager. 3,032,717.
Gaget, Augusta. Hair curlers. 3,019,798, 2–6–62, Cl. 132—42.
Gagg, James, H. A. Stone, and R. E. M. Gemmell, to Molins Machine Co., Ltd. Web-splicing mechanism. 3,061,220, 10–30–62, Cl. 242—58.4.
Gaggini, Torello, to Coors Porcelain Co. One piece thin walled metal container and method of manufacturing same. 3,029,507, 4–17–62, Cl. 29—534.
Gagin, Lawrence V.: *See*—
Labino, Dominick, and Gagin. 3,017,318.
Gagliano, Michael, to Teamlise Corp. Insect attracting and killing device. 3,041,773, 7–3–62, Cl. 43—139.
Gaglio, Peter A.: *See*—
Magos, John P., and Gaglio. 3,032,778.
Gagnan, Emile, and J. Y. Cousteau, to La Spirotechnique. Reserve disposal arrangement for breathing apparatus. 3,028,860, 4–10–62, Cl. 128—142.
Gagne, Oscar J., and B. J. Brown, to August Lapple, G.m.b.H., & Co. Method of making metal clad objects. 3,064,314, 11–20–62, Cl. 18—59.
Gagne, Romeo, to The General Tire & Rubber Co. Laminated extruding die. 3,016,568, 1–16–62, Cl. 18—8.
Gagnebin, Gustave: *See*—
Moccand, Adrien, and Gagnebin. 3,034,630.
Gagner William F. Collapsible fishing rod. 3,036,398, 5–29–62. Cl. 43—18.
Gagnier, Charles E.: *See*—
Whitehill, Jules L., and Gagnier. 3,019,789.
Gagnier Fibre Products Co.: *See*—
Scott, Robert E. 3.039.160.
Scott, Robert E. 3,047,919.
Gagnon, Alcide N. Automatic bicycle stop light switch. 3.031,544, 4–24–62, Cl. 200—61.12.
Gagnon, George W. Window actuator. 3,044,311, 7–17–62, Cl. 74—89.
Gagnon, Joseph R.: *See*—
Russell, Louis R., and Gagnon. 3,033.001.
Gagnon, Paul Clamp. 3,039,161, 6–19–62, Cl. 24—263.
Gagnon, Roland K.: *See*—
Caroselli, Remus F., and Gagnon. 3,068,546.
Gahlinger, Clarence J., to Reynolds Metals Co. Method of making passageway panel from folded metal sheet. 3,048,-916, 8–14–62, Cl. 29—157.3.
Gahlinger, Clarence J., to Reynolds Metals Co. Means for inflating laminated sheets. 3,053,211, 9–11–62, Cl. 113—44.
Gahlinger, Clarence J., to Reynolds Metals Co. Method and apparatus for curving and heating aluminum sheets. 3,060,-881, 10–30–62, Cl. 113—116.
Gahn, Edwin H., to Systron-Donner Corp. Gyroscopic control mechanism. 3,019,662, 2–6–62, Cl. 74—5.7.
Gail, Theodore L. Trailer structure. 3,018,907, 1–30–62, Cl. 214—506.
Gailliot, Paul, F. Debarre, and A. Cometti, to Societe des Usines Chimiques Rhone-Poulenc. Antimony derivatives. 3.035,076, 5–15–62, Cl. 260—446.
Gailliot, Paul, and J. Gaudechon. to Societe des Usines Chimiques Rhone-Poulenc. Iminodibenzyl derivatives. 3,045,017, 7–17–62, Cl. 260—268.
Gainer, Gordon C., and A. P. Strom, to Westinghouse Electric Corp. Self-generated gas blast circuit interrupter embodying high molecular weight polyoxymethylenes. 3,059,081, 10–16–62, Cl. 200—149.
Gainer, Robert E., Jr.: *See*—
Feduska, William, and Gainer. 3,036,139.
Gaines, Richard M. Artificial siding for frame buildings. 3,067,545, 12–11–62, Cl. 50—182.

Gaines, Robert W., and H. A. Arbit, to Union Carbide Corp. Polyethylene structures. 3,058,863, 10–16–62, Cl. 154—50.
Gaines, Walter A.: *See*—
Sletzinger, Meyer, and Gaines. 3,046,300.
Gainesville Machine Co., Inc.: *See*—
Brown, George W., and Harben. 3,017,027.
De Long, Horace J. 3,044,108.
Gainor, Roselyn. Sanitary container closure with dispenser. 3,045,723, 7–24–62, Cl. 141—381.
Gains, Wilfred C.: *See*—
Marshall, Walton H., Jr., and Gains. 3,057,706.
Gair, Albert W., to Thompson Ramo Wooldridge Inc. Eccentric bearing joint. 3,030,134, 4–17–62, Cl. 287—88.
Gaite, Harold D., to British Telecommunications Research Ltd. Tape readers and the like. 3,045,904, 7–24–62, Cl. 235—61.11.
Gajda, Leo P.: *See*—
Edgar, Hugh C., and Gajda. 3,016,027.
Gajda, Leo P., to Snyder Corp. Drill press. 3,039,329, 6–19–62, Cl. 77—33.5.
Gajda, Leo P., H. C. Edgar, and W. S. Kazmierczak, to Arthur Colton Co. Method and apparatus for pressing soap. 3,026,594, 3–27–62, Cl. 25—7.
Gajda, Leo P., and W. S. Kazmierczak, to Arthur Colton Co. Feeding mechanism. 3,044,599, 7–17–62, Cl. 198—25.
Gajewski, Loren R. and M. Constant speed variable volume hydraulic pump. 3,045,600, 7–24–62, Cl. 103—37.
Gajewski, Mervin: *See*—
Gajewski, Loren R. and M. 3,045,600.
Gala Industries, Inc.: *See*—
Dudley, Vernon E. 3,026,592.
Galajda, John E., Jr. Driver and heater for disc oxygenator. 3,053,254, 9–11–62, Cl. 128—214.
Galambos, Max. Apparatus for selectively opening and closing envelope flaps. 3,015,926, 1–9–62, Cl. 53—384.
Galaniuk, Alexander H., to Ford Motor Co. Hydrokinetic tongue converter. 3,045,431, 7–24–62, Cl. 60—54.
Galasyn, Edward: *See*—
Winsor, Travis W., and Galasyn. 3,034,504.
Galasyn Inc.: *See*—
Winsor, Travis W., and Galasyn. 3,034,504.
Galatha, Matthew J., to International Business Machines Corp. Card advancing mechanism. 3,062,532, 11–6–62, Cl. 271—5.
Galbraith, Albert D., and D. A. Popielski, to Monsanto Chemical Co. Color stabilized polyethylene compounds. 3,069,369, 12–18–62, Cl. 260—23.
Galbraith, Donald C., to Milsco Mfg. Co. Vehicle seat assemblage. 3,026,145, 3–20–62, Cl. 297—455.
Galbraith, Hugh J., to United States of America, Air Force. Combination synchro motor and torque measuring device. 3,068,385, 12–11–62, Cl. 318—24.
Galbraith, Sidney W., R. G. Perkins, and H. C. Westfall. Drilling apparatus for tractors. 3,017,935, 1–23–62, Cl. 175—123.
Galco Aktiebolaget: *See*—
Fransson, Georg L. 3,060,562.
Gale, Alfred J., to High Voltage Engineering Corp. Multiple-unit electrostatic generators. 3,035,221, 5–15–62, Cl. 322—2.
Gale, Alfred J., to High Voltage Engineering Corp. Electrostatic generator. 3,039,011, 6–12–62, Cl. 310—6.
Gale, Alfred J., to High Voltage Engineering Corp. Apparatus for irradiating matter with high energy electrons. 3,058,024, 9–25–62, Cl. 250—49.5.
Gale, Donald J., and R. E. Starn, Jr., to E. I. du Pont de Nemours and Co. Process of producing reactive polymeric azo dyes. 3,027,362, 3–27–62, Cl. 260—153.
Galeano, Ted. Safety device. 3,022,856, 2–27–62, Cl. 182—193.
Galen, Clarence W. Indicating mechanisms. 3,031,654, 4–24–62, Cl. 340—309.1.
Galer, Merrill F.: *See*—
Faeber, Harry W., and Galer. 3,057,327.
Galey, Don: *See*—
Adams, Harold A. 3,061,162.
Galezniak, Joseph L. Pipe cutting apparatus. 3,063,697, 11–13–62, Cl. 266—23.
Galik, George M. Means for controlling electric pumps. 3,030,890, 4–24–62 Cl. 103—25.
Galik, George M. Attachment for tampon applicator. 3,042,040, 7–3–62, Cl. 128—263.
Galimberti, Paolo, V. Gerosa, and M. M. Melandri, to Societa Italiani Prodotti Schering. Phenylethylmalonic acid ethyl ester diethylaminoethylamide and salts thereof. 3,025,317, 3–13–62, Cl. 260—471.
Galin, Robert, to General Motors Corp. Refrigerating apparatus. 3,056,542, 10–2–62, Cl. 230—138.
Galindo, Edmund N., deceased; Esperanza Galindo, executrix. Ileostomy appliance. 3,039,464, 6–19–62, Cl. 128—283.
Galindo, Esperanza: *See*—
Galindo, Edmund N. 3,039,464.
Galipeau, Polydore. Handle assembly for container. 3,017,215, 1–16–62, Cl. 294—31.2.
Galizia, Eugene V., to Koppers Co., Inc. Process for producing flame-retardant expandable polystyrene particles. 3,063,954, 11–13–62, Cl. 260—2.5.
Galke, Ralph W., and R. A. Hathaway, to Zenith Radio Corp. Record changer mechanism. 3,038,728, 6–12–62, Cl. 274—10.
Gall, John F., to Pennsalt Chemicals Corp. Dielectric material including perchloryl fluoride. 3,038,955, 6–12–62, Cl. 174—17.
Gall, John F., to Pennsalt Chemicals Corp. Chemical cutting and working. 3,066,058, 11–27–62, Cl. 149—109.
Gall, Rudi: *See*—
Achelis, Johann D., Gall, Haack, and Voemel. 3,028,382.
Achelis, Johann D., Gall, Haack, and Voemel. 3,044,936.
Gall, Walter G., and I. M. Robinson, to E. I. du Pont de Nemours and Co. Polyester having basic dye sites. 3,048,-565, 8–7–62, Cl. 260—75.
Galla, Stephen J., to Ford Motor Co. Vehicular seat assembly. 3,062,584, 11–6–62, Cl. 297—374.
Gallaer, Charles A., to Buell Engineering Co., Inc. Electric precipitators. 3,059,395, 10–23–62, Cl. 55—105.
Gallaer, William A.: *See*—
Hatten, Bernard W., and Gallaer. 3,043,970.
Gallagher, Bernard J.: *See*—
Callahan, Francis J., and Gallagher. 3,070,117.
Gallagher, Cornelius A., to Servo Corp. of America. Hot-box detector. 3,028,484, 4–3–62, Cl. 246—169.
Gallagher, E. J., Jr., Patent Devices Co.: *See*—
Gallagher, Edward J., Jr. 3,027,680.
Gallagher, Edward J., Jr., to E. J. Gallagher, Jr., Patent Devices Co. Table leg length equalizer. 3,027,680, 4–3–62, Cl. 45—139.
Gallagher, Edward J., Jr. Noiseless typewriter or the like. 3,057,450, 10–9–62, Cl. 197—147.
Gallagher, George A., to E. I. du Pont de Nemours and Co. Sulfonated fluorocarbon copolymer. 3,016,368, 1–9–62, Cl. 260—79.3.
Gallagher, George A. to E. I. du Pont de Nemours and Co. Copolymers of hexafluoropropene vinylidene fluoride and aliphatic chain transfer agents. 3,069,401, 12–18–62, Cl. 260—87.7.
Gallagher, Gerald T., and N. Weinberg, to FMC Corp. Peroxide-dipersulfate bleaching of cotton fibres. 3,026,166, 3–20–62, Cl. 8—111.
Gallagher, James A.: *See*—
Dimler, William A., Jr., and Gallagher. 3,065,192.
Thorn, John P., Dimler, and Gallagher. 3,066,151.
Gallagher, James E., to Sinclair Refining Co. Grounding system for light oil loading stations. 3,021,867, 2–20–62, Cl. 137—265.
Gallagher, John J., to Poor & Co. Tie plate bearing anchor. 3,059,855, 10–23–62, Cl. 238—327.
Gallagher, John P. Tire checking apparatus. 3,019,642, 2–6–62, Cl. 73—146.
Gallagher, Paul, to Eastman Kodak Co. Jet and method of filter manufacture. 3,050,430, 8–21–62, Cl. 156—166.
Gallagher, Richard J., to E. I. du Pont de Nemours and Co. Polyurethane golf ball covers. 3,034,791, 5–15–62, Cl. 273—235.
Gallagher, Thomas C. Bale loader. 3,053,372, 9–11–62, Cl. 198—7.
Gallagher, William, Jr., to Samuel M. Langston Co. Slitter mechanism. 3,041,907, 7–3–62, Cl. 83—482.
Gallagher, William P., B. V. Minard, A. D. Stolle, and A. W. Gardes, to International Register Co. Circuit controller. 3,060,288, 10–23–62, Cl. 200—38.
Galland, Opal E. Garbage can. 3,033,414, 5–8–62, Cl. 220—35.
Gallant, James O.: *See*—
Abild, Robert N., Broders, Crim, and Gallant. 3,050,936.
Gallant, Le Roy, to American Viscose Corp. Film extrusion nozzle. 3,030,660, 4–24–62, Cl. 18—12.
Gallardo, Juan. Interchangeable heels for shoes. 3,040,453, 6–26–62, Cl. 36—36.
Gallas, Ernst, to Protona Produktionsgesellschaft fur elektroakustische Gerate G.m.b.H. 3,070,200, 12–25–62, Cl. 192—18.
Gallatin, James C.: *See*—
Bolaski, Walter, and Gallatin. 3,041,246.
Gallatin, Paul M., to Allis-Chalmers Mfg. Co. Rolling contact. 3,027,436, 3–27–62, Cl. 200—87.
Galleher, Inc.: *See*—
Thompson, Norbert D. 3,042,538.
Gallery Chemical Co.: *See*—
Gavlin, Gilbert, Klein, and Maguire. 3,019,251
Gallet, René, to Societe des Thes de l'Elephant. Automatic machine for packing articles such as bags in thermoweldable sachets. 3,022,620, 2–27–62, Cl. 53—137.
Galliers, Edward G. Safe trailing distance warning systems for vehicles. 3,026,498, 3–20–62, Cl. 340—104.
Galligan, John D.: *See*—
Sookne, Arnold M., Galligan, Guest, and Adams. 3,024,-135.
Galligan, John T., to United Aircraft Corp. Apparatus for stamping and marking parts. 3,056,365, 10–2–62, Cl. 113—43.
Gallinger, Clyde T., to E. I. du Pont de Nemours and Co. Device for purifying alkali metal. 3,037,927, 6–5–62, Cl. 204—245.
Gallino, Robert, and K. Thompson, to Lowe Paper Co. Rapid drying of adhesive and clay coatings on fibrous backings. 3,015,581, 1–2–62, Cl. 117—119.6.
Gallo, Elia A., to General Electric Co. Servo mechanism. 3,026,851, 3–27–62, Cl. 121—41.
Gallo, John, Sr.: *See*—
Iannuzzi, Henry J. 3,048,084.
Gallo, John, Sr. Striped paste dispenser. 3,042,263, 7–3–62, Cl. 222—94.
Gallo, Joseph. Card holder. 3,057,093, 10–9–62, Cl. 40—10.
Gallo, Julius R., and S. F. Udstad, to ACF Industries, Inc. Coil pallet. 3,061,255, 10–30–62, Cl. 248—119.

Gallo, Louis J., Jr., to F. W. Dodge Corp. Plan hold-down device. 3,068,609, 12–18–62, Cl. 45—131.

Gallob, Frank E. Device for repairing plastic coated bowling pins. 3,043,175, 7–10–62, Cl. 83—6.

Gallone, Patrizio, to Oronzio de Nora Impianti Elettrochimici. Switch for electrolytic cell. 3,057,984, 10–9–62, Cl. 200—152.

Galloway, Arthur L., to Diamond Alkali Co. Method of preparing pelletized pesticidal compositions. 3,056,723, 10–2–62, Cl. 167—42.

Galloway, Charles G. and C. E. Vapor producing orchard heater. 3,068,853, 12–18–62, Cl. 126—59.5.

Galloway, Clinton E.: *See*—
Galloway, Charles G., and C. E. 3,068,853.

Galloway, Frederick M., to H. K. Porter Co., Inc. Method of splicing sections of heavy duty discharge hose. 3,053,724, 9–11–62, Cl. 156—258.

Galloway, Ralph M. Reclining chair. 3,036,861, 5–29–62, Cl. 297—355.

Galloway, Robert K., to FMC Corp. Article handling mechanism. Re. 25,140, 3–20–62, Cl. 198—32.

Galloway, Robert K., to FMC Corp. Carton feeding and erecting mechanism. 3,016,808, 1–16–62, Cl. 93—53.

Galloway, Robert K., to FMC Corp. Pie tamping and perforating mechanism. 3,016,847, 1–16–62, Cl. 107—1.

Galloway, Robert K., to FMC Corp. Carton structure. 3,024,-961, 3–13–62, Cl. 229—43.

Galloway, Robert K., to FMC Corp. Carton feeding and erecting mechanism. 3,030,869, 4–24–62, Cl. 93—53.

Galloway, Robert K., to FMC Corp. Carton feeding device. 3,031,186, 4–24–62, Cl. 271—12.

Galloway, Robert K., to FMC Corp. Carton set-up mechanism. 3,040,634, 6–26–62, Cl. 93—53.

Galloway, Robert K., to FMC Corp. Carton closing mechanism. 3,049,847, 8–21–62, Cl. 53—374.

Galloway, Robert K., to FMC Corp. Apparatus for handling cartons. 3,056,483, 10–2–62, Cl. 198—34.

Galloway, Robert K., to FMC Corp. Carton squaring method and mechanism. 3,060,651, 10–30–62, Cl. 53—14.

Galloway, Robert K., to FMC Corp. Carton structure. 3,061,-168, 10–30–62, Cl. 229—39.

Gallup, John L., to Radio Corp. of America. Lime glass article having a surface or reduced resistivity. 3,027,482, 3–27–62, Cl. 313—313.

Gallus, Julius P., to Pan American Petroleum Corp. Method for drilling with clear water. 3,040,820, 6–26–62, Cl. 175—66.

Gallus, Julius P., to Jersey Production Research Co. Dynamic filter. 3,053,208, 9–25–62, Cl. 73—53.

Galman, Herbert, to United Aircraft Corp. Synchronous positioning system. 3,051,942, 8–28–62, Cl. 340—347.

Galman, Herbert. Expanded scale electrical measuring system having high temperature stability. 3,068,410, 12–11–62, Cl. 324—131.

Galman, Herbert. Wattmeter circuit. 3,068,411, 12–11–62, Cl. 324—142.

Galmarini, Oscar L.: *See*—
Cataldi, Maria S., Galmarini, and Pahn. 3,015,607.

Galmiche, Philippe, to Office National d'Etudes et de Recherches Aeronautique O.N.E.R.A. Methods for the obtainment of articles of chromium or containing chromium and in articles obtained by these methods. 3,053,649, 9–11–62, Cl. 75—84.

Galonska, Walter O. Zipper. 3,027,618, 4–3–62, Cl. 24—205.13.

Galonska, Walter O. Internal combustion turbine with supercharging turbine for liquid fuels and coal dust. 3,059,428, 10–23–62, Cl. 60—39.35.

Galopin, Anthony, to United States of America, Air Force. Selective bipolarity switching network for memory arrays. 3,054,908, 9–18–62, Cl. 307—88.5.

Galopin, Anthony, and J. L. Medoff, to Radio Corp. of America. Magnetic memory system. 3,069,663, 12–18–62, Cl. 340—174.

Galsgow, Clarence O.: *See*—
Walker, Jay P., and Galsgow. 3,043,072.

Galt, Paul T., Jr.: *See*—
Dietrich, Walter L., and Galt. 3,040,142.

Galtz, Charles S., to Westinghouse Electric Corp. Submersible motor with a sealed rotor chamber. 3,068,371, 12–11–62, Cl. 310—87.

Galtz, Charles S., and D. A. Guerdan, to Westinghouse Electric Corp. Magnetic coupling arrangement. 3,027,472, 3–27–62, Cl. 310—104.

Galvanek, Edward J.: *See*—
Whitney, Gilbert C., Jr., and Galvanek. 3,032,280.

Galvin, Francis E., and G. J. Roffman, to United States of America, Army. Reusable shielded container. 3,069,005, 12–18–62, Cl. 206—46.

Galvin, Ralph B. Furnace involving temperature responsive compensation of combustion air. 3,066,727, 12–4–62, Cl. 158—4.

Gamaunt, Roger L. Track laying vehicle. 3,017,942, 1–23–62, Cl. 180—9.2.

Gambardella, Carmine J., to Lee Engineering Co. Tire mounting apparatus. 3,029,861, 4–17–62, Cl. 157—1.22.

Gambardella, Carmine J., to Lee Engineering Co. Tire demounting apparatus. 3,029,862, 4–17–62, Cl. 157—1.24.

Gambardella, Carmine J., to Lee Engineering Co. Wheel support and lock for tire demounting apparatus. 3,049,-159, 8–14–62, Cl.•144—288.

621173—P——24

Gambel, Adam C.: *See*—
McFarland, William E., and Gambel. 3,063,158.

Gamberg, Edward R.: *See*—
Cotter, George H., Gamberg, and Bichsel. 3,030,496.

Gamberg, Edward R., and G. H. Cotter, to Westinghouse Electric Corp. Welding electrode. 3,059,101, 10–16–62, Cl. 219—145.

Gamberini, Geoffredo, to American Machine & Foundry Co. Cartoning machine. 3,041,803, 7–3–62, Cl. 53—61.

Gamberini, Goffredo, to American Machine & Foundry Co. Cigarette making machine. 3,058,475, 10–16–62, Cl. 131—94.

Gamberini, Goffredo, to "Sasib" Spa Scipione Innocenti-Bologna. Cigarette making machine. 3,059,650, 10–23–62, Cl. 131—66.

Gambino, Evelyn M. Plastic bowling pins. 3,037,771, 6–5–62, Cl. 273—82.

Gamble Brothers, Inc.: *See*—
Dosker, Cornelius D. 3,024,819.
Dosker, Cornelius D. 3,063,485.

Gamble, Burton L., to Continental Can Co., Inc. Sheet feed Controlling means. 3,067,856, 12–11–62, Cl. 198—102.

Gamble, Orres T. Electrical resistor. 3,064,223, 11–13–62, Cl. 338—261.

Gamble, Dennis H., and C. L. Weimer, to Westinghouse Electric Corp. Plug-in low-impedance bus duct. 3,042,890, 7–3–62, Cl. 339—22.

Gamble, Leon W.: *See*—
Langer, Arthur W., Jr., Mertzweiller, Gamble, and Tornqvist. 3,063,798.

Gamble, Norman L.: *See*—
Alspach, Hardin S., Gamble, Hampshire, Mellinger, and Rhodes. 3,044,117.

Gamble, Richard F., and R. S. Lanctot, to United Aircraft Corp. Jet ignition system. 3,016,706, 1–16–62, Cl. 60—39.82.

Gambon, Edward A.: *See*—
McDowell, Robert C., and Gambon. 3,060,496.

Gambrel, Anthony A. Sewage digesting process. 3,047,492, 7–31–62, Cl. 210—7.

Gambril, Marvin D.: *See*—
Walker, Donald C., and Gambril. 3,053,074.

Gamel, Gayne D., and R. Hauser, to Westinghouse Electric Corp. Spring closing mechanism for circuit breakers. 3,045,083, 7–17–62, Cl. 200—74.

Gamet, Louis J.-M., to La Precision Industrielle. Rotary fluid supply system. 3,020,057, 2–6–62, Cl. 279—4.

Gamewell Co., The: *See*—
Bleser, Vincent C., Pearson, Weaver, and De Gryse. 3,054,023.
De Gryse, Gentiel M., Otis, and Weber. 3,053,041.
Eikenberry, Willis M. 3,049,614.
Fieser, Garland E. 3,047,837.
Garney, Gordon T. 3,047,003.
Hendricks, George D. 3,047,838.
Hendricks, George D. 3,056,106.
Komatar, Frederick A., and Pearson. 3,037,101.

Gamlen, George A.: *See*—
Clark, Peter F., and Gamlen. 3,053,850.

Gamma Optikai Muvek.: *See*—
Fialovszky, Lajos. 3,038,368.

Gammel, Walter A., Sr., to Essex Wire Corp. Ignition coil. 3,041,562, 6–26–62, Cl. 336—96.

Gammeter, Harry F., and J. L. Bohnert, to Addressograph-Multigraph Corp. Printing machine. 3,056,346, 10–2–62, Cl. 101—144.

Gammill, Paul, Jr.: *See*—
Tuttle, Kenneth W., and Gammill. 3,015,182.

Gammon, Howard M., and J. A. O'Neill, to Thompson Ramo Wooldridge Inc. Method of making piston pins and like articles. 3,034,401, 5–15–62, Cl. 29—149.5.

Gammon, Howard M., and J. A. O'Neill, to Thompson Ramo Wooldridge Inc. Piston pins and like articles. 3,034,840, 5–15–62, Cl. 309—19.

Gammon, William: *See*—
De Vall, Wilbur E., and Gammon. 3,056,922.

Gams, Theodore C., and P. J. Kiefer, Jr., to Curtiss-Wright Corp. Tape feeding means. 3,044,725, 7–17–62, Cl. 242—55.12.

Gamson, Bernard W., and R. L. Kuehner, to Borg-Warner Corp. Composition and method for deodorizing air. 3,049,399, 8–14–62, Cl. 21—53.

Gan, Alfred. Replaceable heels. 3,052,047, 9–4–62, Cl. 36—36.

Ganahl, Joseph F., to Aeroscience, Inc. Missile flight simulation system. 3,015,231, 1–2–62, Cl. 73—116.

Gancel, Pierre: *See*—
Desvignes, Jean L., and Gancel. 3,035,664.

Gancel, Pierre, and E. Servier, to D.B.A., Societe Anonyme. Disk brakes. 3,059,731, 10–23–62, Cl. 188—73.

Gandee, Tad V.: *See*—
Basey, Donald L., and Gandee. 3,042,944.

Gander, Arnold F. Flush-type toggle latch. 3,047,321, 7–31–62, Cl. 292—223.

Gandier, John C. C., to American Home Products Corp. Collector tube for urine and adapter therefor. 3,036,553, 5–29–62, Cl. 119—95.

Gandillon, Claude: *See*—
Castan, Pierre, and Gandillon. 3,028,348.

Gandolfi, Carmelo: *See*—
De Ruggieri, Pietro, Ferrari, and Gandolfi. 3,029,262.

Gandon, Louis: *See*—
Marcheguet, Henri G. L., and Gandon. 3,026,267.
Gandon, Louis, R. L. Lehmann, H. G. L. Marcheguet, and E. P. M. Tarbouriech, to Societe Nobel Bozel. Production of new compositions from glyoxal and alkali metal silicates. 3,028,340, 4–3–62, Cl. 252—313.
Gandy, Gerald C.: *See*—
Malm, Carl J., and Gandy. 3,057,755.
Malm, Carl J., and Gandy. 3,068,116.
Malm, Carl J., Herdle, and Gandy. 3,047,391.
Gandy, Robert B. Apparatus for setting irrigation tubes. 3,021,860, 2–20–62, Cl. 137—124.
Ganellin, Charon R., and R. G. W. Spickett, to Smith Kline & French Laboratories Ltd. 2,2-dimethyl-6-phenylpiperidine derivatives. 3,067,204, 12–4–62, Cl. 260—294.7.
Gang, Herman, to Monroe Calculating Machine Co. Division mechanism for listing calculator. 3,015,436, 1–2–62, Cl. 235—60.
Gang, Herman, to Monroe Calculating Machine Co. Sign detection means for crawl carry register. 3,015,439, 1–2–62, Cl. 235—77.
Gang, Herman, to Monroe Calculating Machine Co. Value selection and entering means for calculating machines. 3,044,697, 7–17–62, Cl. 235—63.
Gang, Herman, to Monroe Calculating Machine Co. Transfer mechanism for calculating machines. 3,065,908, 11–27–62, Cl. 235—137.
Gangemi, Nicholas C.: *See*—
Epstein, Martin E., and Gangemi. 3,023,200.
Gangneux, René E. M.: *See*—
Kopp, Georges, Gangneux, and Baron. 3,043,647.
Gangneux, Rene E. M., and J. J. Le Blanc, to Compagnie Francaise des Matieres Colarantes. Disazo-pyrozolone dyestuffs. 3,066,134, 11–27–62, Cl. 260—160.
Ganguet, William A., and G. D. McKenzie. Cotton harvester. 3,058,282, 10–16–62, Cl. 56—13.
Ganiere, Herbert C., Weimek, and E. T. Sherwood, to Globe-Union Inc. Divider circuit for battery charger. 3,021,469, 2–13–62, Cl. 320—15.
Ganine, Peter. Modeling device. 3,064,365, 11–20–62, Cl. 35—26.
Gann, James: *See*—
Prinz, Roy, Gann, and Ramey. 3,039,940.
Gann, Ray: *See*—
Salbenblatt, William F., and Gann. 3,055,151.
Gann, Raymond L.: *See*—
Wiggins, Richard F., Maltas, and Gann. 3,017,009.
Gannett, Wright C., to Mast Development Co. High-speed register. 3,063,633, 11–13–62, Cl. 235—103.
Gannoe, Thomas E., to Sylvania Electric Products Inc. Contact puller. 3,066,397, 12–4–62, Cl. 29—206.
Gannon, James: *See*—
Brouillard, Robert E., Gannon, and Katz. 3,041,192.
Gans, Francois F. Heterojunction transistor manufacturing process. 3,057,762, 10–9–62, Cl. 148—33.
Ganser, Paul: *See*—
Flower, Archibald T., and Ganser. 3,060,259.
Ganske, Warren L., to The Pillsbury Co. Pre-mix manufacturing process. 3,039,878, 6–19–62, Cl. 99—94.
Ganson, Philip: *See*—
Denney, Ralph E. 3,049,854.
Ganss, Helmut: *See*—
Forster, Gerhard, Hilke, and Ganss. 3,037,565.
Ganss, Harry H., to Optical Glass Float Co. Spectacle float. 3,038,375, 6–12–62, Cl. 88—41.
Gant, Preston L., to Continental Oil Co. Detection and location of pipeline leaks. 3,045,116, 7–17–62 Cl. 250—43.5.
Gant, Preston L., and J. D. Sudbury, to Continental Oil Co. Location of pipeline leaks. 3,050,629, 8–21–62, Cl. 250—106.
Gant, Richard T. H.: *See*—
Garland, Ronald McG., and Gant. 3,069,082.
Gantert, Gerard E.: *See*—
Bortnick, Newman M., and Gantert. 3,028,412.
Bortnick, Newman M., and Gantert. 3,028,414.
Gantschnigg, Gottfried K., and S. Ziegler, to General Dynamics Corp. Camera apparatus. 3,029,688, 4–17–62, Cl. 88—19.3.
Gantz, George M.: *See*—
Copes, Joseph P., and Gantz. 3,056,744.
Gantz, Herman C. Single pole multiple contact switch. 3,030,461, 4–17–62, Cl. 200—11.
Gantz, Ira H.: *See*—
Mark, John T., and Gantz. 3,043,323.
Gantz, John H.: *See*—
McMillen, Richard L., Goldsmith, and Gantz. 3,027,325.
Ganz, Henry. Filter cigarettes. 3,040,752, 6–26–62, Cl. 131—10.
Ganz, Henry, to Continental Can Co., Inc. Machine for packaging articles. 3,045,401, 7–24–62, Cl. 53—48.
Ganz, Henry, to Continental Can Co., Inc. Method and machine for packaging articles. 3,061,985, 11–6–62, Cl. 53—48.
Ganz, Robert H., to Continental Can Co., Inc. Method and machine for applying dividers to bottles. 3,031,813, 5–1–62, Cl. 53—157.
Ganze, Ronald A., to F. B. Pease Co. Fruit centering device and method therefor. 3,064,793, 11–20–62, Cl. 198—33.
Gaon Joseph: *See*—
Zeitlin, Edward J., Leighton and Gaon. 3,036,767.
Gaquin, Beulah E.: *See*—
Gaquin, John H. 3,055,028.
Gaquin, John H.: *See*—
Heaton, Walter H., and Gaquin. 3,035 292.
Morse, Ronald W., and Gaquin. 3,027,867.
Gaquin, John H., decreased, by B. E. Gaquin, executrix, to Beckwith-Arden Inc. Device for conditioning shoe upper material. 3,055,028, 9–25–62, Cl. 12—59.7.
Gaquin, John H., and R. W. Morse, to Beckwith-Arden Inc. Urea-coated stiffening sheet. 3,068,130, 12–11–62, Cl. 154—46.
Gara, William B.: *See*—
Kielsmeier, Elwood W., and Gara. 3,050,399.
Garai, Frank, to The Baker Castor Oil Co. Method of treating mycotic infections. 3,019,161, 1–30–62, Cl. 167—58
Garbaden, George H.: *See*—
Basto, Julio H., Capp, Davison, and Garbaden. 3,037,951.
Garbarini, Robert F.: *See*—
Wheeler, Lisle L., and Garbarini. 3,033,084.
Garbarini, Robert F., R. L. Wendt, and H. Rawitz, to Sperry Rand Corp. Directional reference correction system. 3,037,289, 6–5–62, Cl. 33—61.
Garbarino, Americo F., to Lewis-Shepard Co. Nesting platform trucks. 3,027,174, 3–27–62, Cl. 280—33.99.
Garbarino, Edwin J., and A. Manfre. Retractable rope hook. 3,043,550, 7–10–62, Cl. 248—361.
Garbe, Lahmeyer & Co. Aktiengesellschaft: *See*—
Hoven, Wilhelm. 3,057,212.
Garbellano, David W. Radiation detector. 3,031,577, 4–24–62, Cl. 250—83.6.
Garber, Calvin S.: *See*—
Laakso, Thomas M., and Garber. 3,033,679.
Garber, John D.: *See*—
Urbec, Teofeil Jones, and Garber. 3,070,633.
Garber, John D., to Merck & Co., Inc. Furfuryl isocyanates. 3,049,552, 8–14–62, Cl. 260—346.1.
Garber, John D., R. E. Jones, and H. C. Reynolds, to Merck & Co., Inc. 2,5-bis(2,3-epoxypropoxymethyl) tetrahydrofuran. 3,025,307, 3–13–62, Cl. 260—347.8.
Garber, John D., and R. E. Jones, to Merck & Co., Inc. 5,5'-(oxydimethylene)bis - tetrahydrofurfurylamine. 3,055,914, 9–25–62, Cl. 260—347.7.
Garber, Murray, R. Herrlinger, H. Albrecht, and L. F. Cieslelski, to American Cyanamid Co. Production of anethole from sulfate turpentine residues. 3,038,945, 6–12–62, Cl. 260—612.
Garbin, Albert J., and R. F. Garner, to The B. F. Goodrich Co. Method of making side driving V-belts reinforced with laterally spaced cabled tension members. 3,049,460, 8–14–62, Cl. 156—140.
Garbuny, Max: *See*—
Ohlmann, Robert C., and Garbuny. 3,030,546.
Garbuny, Max, to United States of America, Air Force. Apparatus for reducing spurious signals in thermal image converter. 3,017,458, 1–16–62, Cl. 178—6.8.
Garbuny, Max, to United States of America, Air Force. Radiation detection. 3,034,010, 5–8–62, Cl. 313—101.
Garbuny, Max, and J. S. Talbot, to Westinghouse Electric Corp. Thermal image converter. 3,056,062, 9–25–62, Cl. 315—11.
Garbuny, Max, and T. P. Vogl, to Westinghouse Electric Corp. Color sensitive infrared detector. 3,061,726, 10–30–62. Cl. 250—83.3.
Garcea, Gianpaolo, to Alfa Romeo S.p.A. Supercharging device for infernal combustion engines. 3,036,563, 5–29–62, Cl. 123—119.
Garcia Porras, José, and F. Sulé Luengo. Dust removers. 3,066,344, 12–4–62, Cl. 15—229.
Garcia, Cecilio. Machine for making ornamental iron work. 3,020,949, 2–13–62, Cl. 153—40.
Garcia, Gustavo, to Aerojet-General Corp. Amplifying switch with output level dependent upon a comparison of the input and a zener stabilized control signal. 3,046,417, 7–24–62, Cl. 307—88.5.
Garcia de la Para, Georges J. M. G. Internal combustion engine. 3,021,825, 2–20–62, Cl. 123—51.
Garcia, Roberto R. Propelled ball game. 3,059,931, 10–23–62, Cl. 273—127.
Garey Co. of Canada Ltd.: *See*—
Shepherd, Charles G. 3,052,372.
Garcy Corp.: *See*—
Arnit, Fred H. 3,045,389.
McLean, James. 3,025,971.
Ruhnke, Richard R. 3,021,961.
Ruhnke, Richard R. 3,026,149.
Wells, Joel B. 3,023,911.
Zurawski, Edward F. 3,065,343.
Gard, Charles D., 20% to W. P. Green, and 80% to J. A. Koste. Automatic guidance system. 3,064,929, 11–20–62, Cl. 244—77.
Gard, George E., to Armstrong Cork Co. Continuous blender. 3,062,511, 11–6–62, Cl. 259—3.
Gardberg, Joseph, to Admiral Corp. Motor control circuit. 3,041,519, 6–26–62, Cl. 318—467.
Gardberg, Joseph, to A. Friedman. Photocomposing system. 3,067,660, 12–11–62, Cl. 95—4.5.
Gardberg, Joseph, to A. Friedman. Photocomposing system. 3,067,661, 12–11–62, Cl. 95—4.5.
Garde Mfg. Co.: *See*—
Murphy, James. 3,070,769.
Gardel, Robert, and A. Rogovin. Doll leg mounting and operating mechanism. 3,016,652, 1–16–62, Cl. 46—149.

Gardes, Alfred W.: *See*—
Gallagher, William P., Minard, Stolle, and Gardes. 3,060,-288.

Gardes, Alfred W., to International Register Co. Operating means for circuit controller and the like. 3,060,289, 10–23–62. Cl. 200—38.

Gardiner, Charles W.: *See*—
Lawrence, Thomas E., Kelner, Gardiner, and Evans. 3,054,958.

Gardiner, Duncan B., and F. E. Hill, to Vickers Inc. Power transmission. 3,015,343, 1–2–62, Cl. 137—623.

Gardiner, Emmett G., to General Electric Co. Copper-aluminum tubular connector. 3,042,428, 7–3–62, Cl. 285—173.

Gardiner, Frank J., to I-T-E Circuit Breaker Co. Aerodynamic wave machine supercharger for steam generators with fan and high pressure system. 3,033,176, 5–8–62, Cl. 122—4.

Gardiner, Frank J., to I-T-E Circuit Breaker Co. Polarizer means. 3,046,498, 7–24–62, Cl. 333—21.

Gardiner, Herbert W. B., to The General Electric Co. Ltd. Machines suitable for use in mass production processes. 3,033,346, 5–8–62, Cl. 198—76.

Gardiner, Paul C., to United States of America, Navy. Range blank for echo-controlled torpedo. 3,021,806, 2–20–62, Cl. 114—23.

Gardiner, Paul C., to United States of America, Navy. Phase-difference control for electroacoustic steering systems. 3,024,754, 3–13–62, Cl. 114—23.

Gardiner, Paul C., L. E. Jewett, and G. L. Broomell, Jr., to United States of America, Navy. Echo range limitation equipment. 3,022,760, 2–27–62, Cl. 114—23.

Gardiner, Paul C., L. E. Jewett, and G. L. Broomell, Jr., to United States of America, Navy. Range gating means. 3,064,233, 11–13–62, Cl. 340—3.

Gardiner, William C.: *See*—
Henegar, Glen P., and Gardiner. 3,052,612.
Holmes, Arthur J., and Gardiner. 3,055,821.

Gardner, August M., and A. C. Zbylut, to The Singer Mfg. Co. Sewing machines with improved loop deflector. 3,044,-427, 7–17–62, Cl. 112—187.

Gardner, Bernard C., and C. E. Ward, to Varian Associates. High frequency probe apparatus. 3,016,501, 1–9–62, Cl. 315—5.21.

Gardner, Charles N., J. F. Furrer, and G. E. Murray, to United States of America, Army. Ground-contact shock absorbing system. 3,050,278, 8–21–62, Cl. 244—138.

Gardner, Charles S., to Gardner Enterprises, Inc. Electrical heating unit. 3,069,528, 12–18–62, Cl. 219—39.

Gardner, Charles W.: *See*—
Sigvardsson, Bejron K. G., and Gardner. 3,067,949.

Gardner, David E., and M. M. King, to Shwayder Brothers, Inc. Backrest assembly for chairs. 3,037,814, 6–5–62, Cl. 297—444.

Gardner, David M.: *See*—
Gould, Jack R., and Gardner. 3,043,665.

Gardner, David M., to Thiokol Chemical Corp. Purification of boron trichloride. 3,037,337, 6–5–62, Cl. 55—55.

Gardner-Denver Co.: *See*—
Bos, John R., and Shulters. 3,028,108.
Huffman, Mervin C. 3,045,768.
Maurer, Spencer B. 3,068,973.
Sutton, Orval L., and McQuary. 3,057,372.
Vincent, Robert R. 3,022,014.
Williams, Raymond F. 3,062,433.

Gardner, Edward M., and V. T. Kopp, to Merrill Bros. Automatically locking lift fork attachment. 3,019,929, 6–2–62, Cl. 214—620.

Gardner Enterprises, Inc.: *See*—
Gardner, Charles S. 3,069,528.

Gardner, Erle: *See*—
Bayliss, Alan J., Gardner, and Tomlinson. 3,030,513.

Gardner, Ernest A.: *See*—
Heltzel, Carl J., Gardner, and Kirchner. 3,049,248.

Gardner, Frank P., to Louis Marx & Co., Inc. Automatic die casting machine. 3,063,108, 11–13–62, Cl. 22—68.

Gardner, Frederick H., to General Dynamics Corp. Automatic gain control amplifier circuitry. 3,051,913, 8–28–62, Cl. 330—136.

Gardner, Frederick P., 85% to S. A. Gardner, and 15% to D. R. McLain. Hand loom. 3,054,429, 9–18–62, Cl. 139—34.

Gardner, George R., and J. C. Buck, to Aluminum Co. of America. Casting process. 3,022,556, 2–27–62, Cl. 22—193.

Gardner, Harry B., Jr. Educational doll. 3,047,670, 7–31–62, Cl. 179—82.

Gardner, Horace L., to Fairchild Stratos Corp. Parallel alternator system. 3,056,036, 9–25–62, Cl. 290—4.

Gardner, Irwin J., S. B. Robison, and H. S. Makowski, to Esso Research and Engineering Co. Process for curing halogenated butyl rubber with a bivalent metal oxide and an organic polythiol compound, and product obtained thereby. 3,041,304, 6–26–62, Cl. 260—41.5.

Gardner, Jack R., to Reed Roller Bit Co. Tree excavator and transplanter. 3,017,708, 1–23–62, Cl. 37—2.

Gardner, John B., to The British Oxygen Co. Ltd. Process and apparatus for the low temperature separation of air. 3,058,314, 10–16–62, Cl. 62—29.

Gardner, John C., to Gardner Mfg. Co. Insect killing lamp. 3,059,373, 10–23–62, Cl. 43—113.

Gardner, Kenneth E., A. P. Veltre, and W. R. Gerich, to Maryland Shipbuilding and Drydock Co. Carrier constructions for bulk fluids. 3,064,612, 11–20–62, Cl. 114 -74.

Gardner Laboratory, Inc.: *See*—
Neubrech, David A., and Cattaro. 3,020,793.
Neubrech, David A., and Cattaro. 3,069,013.

Gardner, Lawrence H. Shuttle valve. 3,038,487, 6–12–62, Cl. 137—112.

Gardner Machine Co.: *See*—
Price, Ralph E. 3,018,589.

Gardner Machines, Inc.: *See*—
Neilson, Jay C. 3,049,147.

Gardner Mfg. Co.: *See*—
Gardner, John C. 3,059,373.
Peterson, Lawrence W. 3,036,735.

Gardner, Murray S.: *See*—
Dineff, John, and Gardner. 3,022,672.

Gardner, Paul J., to The Bendix Corp. Containers for cryogenic liquids and gases. 3,043,466, 7–10–62, Cl. 220—14.

Gardner, Paul J., to The Bendix Corp. Conversion apparatus and systems. 3,046,751, 7–31–62, Cl. 62—52.

Gardner, Peter A. Agricultural liquid, such as weedicide or hormone, spraying apparatus. 3,016,653, 1–16–62, Cl. 47—1.7.

Gardner, Prince, Co., Inc.: *See*—
Burnisky, Anthony J. 3,029,854.

Gardner, Priscilla D. Personalized sound. Re. 25,259, 10–16–62, Cl. 179—100.1.

Gardner, Robert B.: *See*—
Benfer, David V., and Gardner. 3,032,959.
Benfer, David V., and Gardner. 3,059,404.

Gardner, Stewart F. Press. 3,037,546, 6–5–62, Cl. 153—2.

Gardner, Sylvia A.: *See*—
Gardner, Frederick P. 3,054,429.

Gardner, Thomas P., to Texaco Inc. Reinforced side seam construction for large capacity cans. 3,048,300, 8–7–62, Cl. 229—5.7.

Gardner, Thomas S., J. Lee, J. Finkelstein, and E. Wenis, to Hoffmann-La Roche Inc. Di-lower alkyl-aminophenyl-lower alkylene hydrazines. 3,042,721, 7–3–62, Cl. 260—5?9.

Gardner, Thomas S., J. Lee, and E. Wenis, to Hoffmann-La Roche Inc. Substituted isoxazolyl compounds. 3,047,581, 7–31–62, Cl. 260—307.

Gardner, Thomas S., J. Lee, and E. Wenis, to Hoffmann-La Roche Inc. 1-(di-lower alkyl-aminophenyl-lower alkylene)-2-(5-lower alkyl-3-isoxazolylcarbonyl) hydrazines. 3,053,848, 9–11–62, Cl. 260—307.

Gardner, Thomas S., J. Lee, and E. Wenis, to Hoffmann-La Roche Inc. N',N'-di-isoxazolylcarbonyl-sulfanilamide derivatives. 3,065,225, 11–20–62, Cl. 260—239.9.

Gardner, Wm. & Sons (Gloucester) Ltd.: *See*—
Smalley, William. 3,070,261.

Gardoff, Irving: *See*—
Fleming, Howard M., Jr., Gardoff, La Manna, and Weinberg. 3,039,691.

Garetson, Paul K., and W. A. Jones, to Standard Oil Co. Polymerization process. 3,037,008, 5–29–62, Cl. 260—88.2.

Garfield, Eugene. Copying and reproducing device. 3,052,-755, 9–4–62, Cl. 178—6.6.

Garfield, Eugene E. Copying and reproducing device. 3,064,-078, 11–13–62, Cl. 178—6.7.

Garfinkel, Alan R., N. L. Sims, and B. A. Spinelli, to Sperry Rand Corp., Ford Instrument Co. Division. Decoder-indicator. 3,058,104, 10–9–62, Cl. 343—6.5.

Garfinkel, Samuel B.: *See*—
Wexler, Arnold, Krinsky, and Garfinkel. 3,022,667.

Garfunkel, Louis X.: *See*—
Weien, Paul. 3,060,493.

Gariepy, Henry J. Swivel hinge support. 3,070,343, 12–25–62, Cl. 248—379.

Garin, Jean M.: *See*—
Roubeau, Pierre M., Garin, and Prugne. 3,022,038.

Garin, Paul: *See*—
Auzolle, Robert, Chaumette, Garin, and Prugne. 3,045,-642.

Gariod, Roger: *See*—
Bonnet Georges, and Gariod. 3,051,874.

Garland, Robert J., to Carrier Corp. Finning machine. 3,055,-082, 9–25–62, Cl. 29—33.

Garland, Ronald McG., and R. T. H. Gant, to Veeder-Root Inc. Indicating mechanism. 3,069,082, 12–18–62, Cl. 235—17.

Garlock Inc.: *See*—
Mayer, Ehrhard. 3,026,112.
Mikell, Winborn L. 3,050,311.
Rising, Donald B., and Shanley. 3,056,709.
Schwing, Roger. 3,019,026.
Schwing, Roger. 3,054,620.
Schwing, Roger. 3,066,942.
Shanley, Edward S., and Rising. 3,056,637.

Garmaise, David L., and A. F. McKay, to Monsanto Canada Ltd. 3,4 dichloro aminoalkylamides. 3,026,343, 3–20–62, Cl. 260—404.5.

Garman, Donald F., to The Bishop and Babcock Corp. Panel mounting fastener. 3,066,367, 12–4–62, Cl. 24—81.

Garman, Edward B., to Owens-Illinois Glass Co. Two-piece dispensing receptacle. 3,040,952, 6–26–62, Cl. 229—17.

Garman, John A., and W. B. Tuemmler, to FMC Corp. Manufacture of dimethallyl phthalates. 3,035,084, 5–15–62, Cl. 260—475.

Garman, Raymond L. : *See*—
Novak, Warren D., and Garman. 3,051,775.
Garmon, Lee F., Jr., and W. G. Axtell, to Shwayder Bros., Inc. Latch. 3,034,327, 5–15–62, Cl. 70—70.
Garms, Ralph F. : *See*—
Stevens, Clifford B., and Garms. 3,034,163.
Garms, Ralph F., to E. R. Wagner Mfg. Co. Sweepers. 3,061,857, 11–6–62, Cl. 15—44.
Garmy, Robert J., to Republic Steel Corp. Method and apparatus for forming ingots. Re. 25,124, 2–20–62, Cl. 13—9.
Garmy, Robert J., to Republic Steel Corp. Supporting and current supplying means for consumable electrodes in electric furnaces. 3,057,935, 10–9–62, Cl. 13—14.
Garn, Paul D. : *See*—
Flaschen, Steward S., and Garn. 3,028,447.
Garnand, Ivan L. Excavator mechanism for attachment to a tractor. 3,041,750, 7–3–62, Cl. 37—92.
Garner, Albert Y. : *See*—
Abramo, John G., Chapin, and Garner. 3,065,210.
Abramo, John G., Garner, and Chapin. 3,051,740.
Garner, Albert Y., J. G. Abramo, and E. C. Chapin, to Monsanto Chemical Co. Ethylenically unsaturated ionic phosphonium salts. 3,065,272, 11–20–62, Cl. 260—606.5.
Garner, Gail, ¼ each to R. Berryman, and L. B. Russum. Alarm apparatus for refrigeration systems and the like. 3,059,443, 10–23–62, Cl. 62—126.
Garner, James I. : *See*—
Rork, Wallace G., and Garner. 3,048,997.
Garner, Oscar G. : *See*—
Rubinstein, Solomon, Garner, and Eager. 3,023,267.
Garner, Philip J. : *See*—
Jackson, Robert G., and Garner. 3,052,531.
Garner, Philip J., to Shell Oil Co. Stabilization of glycol solutions employed in aromatic recovery. 3,050,462, 8–21–62, Cl. 208—325.
Garner, Ralph F. : *See*—
Garbin, Albert J., and Garner. 3,049,460.
Garnett, Donald W. : *See*—
Olofson, Gustav A., and Garnett. 3,020,966.
Garnett, Edward H. : *See*—
Postlewait, James H., Garnett, and Root. 3,068,632.
Garnett, Edward V. Vehicle derrick. 3,024,916, 3–13–62, Cl. 212—8.
Garnett, Edward V. Dual front wheel assembly with air suspension means. 3,042,422, 7–3–62, Cl. 280—96.2.
Garnett, Edward V. Derrick for vehicles. 3,056,510, 10–2–62, Cl. 212—59.
Garnett, Jack L. : *See*—
Busey, James D., Garnett, Hill, and Napp. 3,063,203.
Garnett, John G. : *See*—
Boyle, John A., and Garnett. 3,057,598.
Garnett, Sylvain : *See*—
Herbst, John A., and Garnett. 3,600,883.
Garnier, Etienne, & Fils, Ets. : *See*—
Garnier, Marcel. 3,041,728.
Garnier, Georges, to Air-Equipment. Housing for mechanical relay, more particularly for driving accessories in aircraft. 3,054,306, 9–18–62, Cl. 74—606.
Garnier, Marcel, to Etienne Garnier & Fils, Ets. Dental engine. 3,041,728, 7–3–62, Cl. 32—23.
Garnsworthy, Courtney, ½ to Welwyn Electric Ltd. Process for the production of electrical resistors and resulting article. 3,044,901, 7–17–62, Cl. 117—212.
Garofali, Jaures. Cylinders for two stroke engines. 3,038,457, 6–12–62, Cl. 123—65.
Garofalo, Domenico. Therapeutic 2-aminoethanethiol orate. 3,062,722, 11–6–62, Cl. 167—95.
Garombo, Michele. Semi-automatic threading-device for sliding lathes. 3,016,777, 1–16–62, Cl. 82—5.
Garonzik, Sylvan H. : *See*—
Potter, Claud N., and Ervin. 3,067,731.
Garrabrant, Edmund C. : *See*—
Seaman, Francis E., and Garrabrant. 3,034,537.
Garrard Engineering and Mfg. Co. Ltd., The : *See*—
Ansar, Anders. 3,023,008.
Garratt, Arthur J. : *See*—
Evans, James C., Morgan, Nickols, Garratt, Mason, and Atkins. 3,026,714.
Garraway, Edwin R. Water bag support. 3,015,423, 1–2–62, Cl. 224—42.03.
Garrett, Alfred B. : *See*—
Altwicker, Elmar R., Garrett, Wellmuenster, and Harris. 3,038,012.
Altwicker, Elmar R., Garrett, Wellmuenster, and Harris. 3,052,725.
Garrett, Burton R. Combined hopper, feeder and counter. Re. 25,297, 12–11–62, Cl. 221—162.
Garrett Corp., The : *See*—
Bolliger, Frederic E. 3,034,582.
Byloff, Robert C. 3,021,474.
Byloff, Robert C., and Jackson. 3,067,334.
Egli, Hans, and Parker. 3,048,005.
Fischer, Richard A. 3,070,108.
Fraebel, Robert J. 3,042,290.
Glaser, Jerry. 3,042,391.
Green, Frederick H. 3,026,681.
Green, Frederick H. 3,027,726.
Greenwald, Harold A. 3,041,848.
Greenwald, Harold A. 3,042,291.
Greenwald, Harold A. 3,060,335.
Heyniger, William L. 3,018,867.
Jackson, John K. Re. 25,210.
Garret Corp., The : *See*—Continued
Jackson, John K., and Whitaker. 3,046,738.
Jensen, Raymond W., Knight, and Marlin. 3,063,239.
Kimes, Robert. 3,018,790.
King, Louis T., and Zimmerman. 3,029,095.
Klover, John M., Melber, and Moore. 3,029,830.
Kratzer, Blair S. 3,048,370.
Le May, Dan B., Parker, Paul, Silver, Stein, and Wood. 3,060,686.
Lips, Donald C. 3,036,592.
Marlin, Elmer D. Re. 25,174.
Meermans, John W. 3,017,230.
Parker, Wilton E., and Whitaker. 3,029,067.
Rae, Randolph S. 3,040,518.
Rae, Randolph S. 3,040,519.
Rae, Randolph S. 3,040,520.
Riley, James H., Silver, and Powell. 3,032,056.
Schelp, Helmut R. 3,054,257.
Silver, Alexander. 3,027,904.
Silver, Alexander. 3,032,061.
Silver, Alexander. 3,035,408.
Silver, Alexander. 3,036,587.
Silver, Alexander. 3,067,616.
Whitaker, William D. 3,065,954.
Garrett, Douglas R. : *See*—
Brown, Albert W., and Garrett. 3,038,632.
Garrett, Dwight A. Articulating-frame logging tractor. 3,049,186, 8–14–62, Cl. 180—51.
Garrett, Harvey E. and H. A. Fishing hook holder for fishing poles. 3,040,464, 6–26–62, Cl. 43—25.2.
Garrett, Henry U., C. M. Peters, and R. W. Dinning, to Udell, Inc. Well apparatus. 3,045,759, 7–24–62, Cl. 166—224.
Garrett, Henry U., and C. M. Peters, to U.S. Industries, Inc. Well apparatus and method. 3,050,121, 8–21–62, Cl. 166—48.
Garrett, Herman A. : *See*—
Garrett, Harvey E. and H. A. 3,040,464.
Garrett. John C. : *See*—
Collin, Jay H., and Garrett. 3,052,279.
Collin, Jay H., and Garrett. 3,052,280.
Garrett, John E., to The Goodyear Tire & Rubber Co. Method and washer means including a calibrated rubber layer for measuring bolt tension. 3,021,747, 2–20–62, Cl. 85—62.
Garrett, Patrick L. Paint roller cleaner. 3,019,467, 2–6–62, Cl. 15—236.
Garrett, Robert Y., to The B. F. Goodrich, Co. Synthetic polymers. 3,047,548, 7–31–62, Cl. 260—80.7.
Garrett, Russell U. Laminated printing plate and process for making same. 3,015,268, 1–2–62, Cl. 101—401.1.
Garrett, William R., to Drilco Oil Tools, Inc. Resilient rotary type fluid conduit connection. 3,033,011, 5–8–62, Cl. 64—11.
Garrigan, Helen. Butterfly valve. 3,048,363, 8–7–62, Cl. 251—307.
Garrison, Alton C. Damper assembly. 3,020,821, 2–13–62, Cl. 98—41.
Garrison, Clair W., to International Minerals & Chemical Corp. Liquid dispensing device. 3,032,005, 5–1–62, Cl. 118—2.
Garrison, James O. : *See*—
Garrison, Ralph P. and J. O., and Walker. 3,041,079.
Garrison, Katharine S. : *See*—
Garrison, Ralph P. and J. O., and Walker. 3,041,079.
Garrison Machine Works, Inc. : *See*—
Garrison, Ralph P. and J. O., and Walker. 3,041,079.
Oswald, Richard G. 3,069,790.
Garrison, Paul J., Jr. : *See*—
De Fore, Ernest O., Cox, Ott, Atkinson, and Garrison. 3,055,603.
Garrison, Ralph P., deceased (by K. S. Garrison, administratrix), and J. O., and D. D. Walker, to Garrison Machine Works, Inc. Chuck. 3,041,079, 6–26–62, Cl. 279—106.
Garrison, Richard F., and F. A. Saal, to Bell Telephone Laboratories, Inc. Counting circuit. 3,022,003, 2–20–62, Cl. 235—92.
Garrison, Richard J., E. W. Henches, and G. S. Spiro, to American Telephone and Telegraph Co. Record controlled translator. 3,020,525, 2–6–62, Cl. 340—172.5.
Garrison, Robert A., and C. F. Schoelm ; said Schoelm assor. to said Garrison. Fluid operated booster valve. 3,053,-052, 9–11–62, Cl. 60—54.6.
Garrity, Thomas R., to International Business Machines Corp. Magnetic character sensing. 3,030,014, 4–17–62, Cl. 235—61.11.
Garrod, Norman J., and S. A. Plunket. Gramophone record sleeve. 3,061,171, 10–30–62, Cl. 229—68.
Garrott, John C. Rubber-sealed gate valve. 3,042,361, 7–3–62. Cl. 251—187.
Garshelis, Ivan J. : *See*—
Nichols, Victor L., and Garshelis. 3,057,015.
Garske, Hubert A. Bucket loader. 3,057,496, 10–9–62, Cl. 214—140.
Garski, Chester S., and C. C. Phillips, to Holley Carburetor Co. Fuel systems for internal combustion engines. 3,061,-285, 10–30–62, Cl. 261—23.
Garson, Arthur. Garments. 3,020,914, 2–13–62, Cl. 128—444.
Garson, Arthur. Brassieres. 3,030,962, 4–24–62, Cl. 128—465.
Garson, Arthur. Adjustable strap assembly. 3,066,374, 12–4–62, Cl. 24—198.
Garst, Lennah S. : *See*—
Cauble, Lowe D. 3,034,788.

Garten, Harry G., to Union Carbide Corp. Protective relay circuitry for hoist motor controls. 3,021,465, 2–13–62, Cl. 318—247.

Gartner, Benjamin : *See*—
Stegmaier, Hermann, - 3,020,704.

Gartner, Charles E., Jr. Safety test clip. 3,031,642, 4–24–62, Cl. 359—261.

Gärtner, Fritz : *See*—
Tschirf, Ludwig Gärtner, and Janovsky. 3,042,170.

Gartner, Raymond J. Bowling top. 3,036,835, 5–29–62, Cl. 273—147.

Gartner, Stanley J. : *See*—
Erskine ,George B., and Gartner. 3,044,789.

Gartner, Stanley J., to Sylvania Electric Products Inc. Delayed release chuck. 3,064,986, 11–20–62, Cl. 279—66.

Gartner, Stanley J., to Sylvania Electric Products Inc. Assembly apparatus and methods. 3,069,749, 12–25–62, Cl. 29—25.2.

Gartner, Stanley J., and L. R. V. Regelman, to Sylvania Electric Products Inc. Conveyor. 3,023,880, 3–6–62, Cl. 198—85.

Gartner, Wilhelm, to FMC Corp. Process for the regeneration of waste paper. 3,056,713, 10–2–62, Cl. 162—5.

Garton, Albert F., Jr., to Philco Corp. Fabrication of semiconductor devices. 3,066,050, 11–27–62, Cl. 134—2.

Garty, Kenneth T. : *See*—
Allen, Ivey, Jr., Garty, and Stenstrom. 3,062,777.

Garver, Curtis A., to The Flexible Co. Vehicle toilet. 3,042,933, 7–10–62, Cl. 4—8.

Garver, Robert V., to United States of America, Army. Reversed semiconductor microwave switch. 3,019,400, 1–30–62, Cl. 333—73.

Garvey, Frank J. Electric razor hair cutting attachment. 3,030,707, 4–24–62, Cl. 30—90.

Garvey, James. Plodder liners. 3,055,074, 9–25–62, Cl. 25—8.

Garvey, Lawrence P., to Radio Corp. of America. Method of preparing ceramic compositions. 3,037,874, 6–5–62, Cl. 106—39.

Garvey, Louis P., to General Motors Corp. Windshield wiper blade. 3,040,873, 8–14–62, Cl. 15—250.42.

Garvey, Louis P., and J. D. Leslie, to General Motors Corp. Vacuum-operated coincidental door lock control system. 3,019,848, 2–6–62, Cl. 180—82.

Garvey, Louis P., and M. E. Reuther, to General Motors Corp. Closure sealing arrangement. 3,034,826, 5–15–62, Cl. 296—44.

Garvey, Mark J. :*See*—
Fowler, Roland G., Larsen, Dale, and Garvey. 3,061,692.

Garvey, Mark J., and W. U. Andrews, to The National Cash Register Co. Calculating machine adapted for number checking device. 3,049,293, 8–14–62, Cl. 235—130.

Garvey, Mark J., and A. Hartvig, to The National Cash Register Co. Skip tab mechanism for accounting machines. 3,068,986, 12–18–62, Cl. 197—177.

Garvin, George L., to Amsted Industries Inc. Positioning mechanism. 3,069,935, 12–25–62, Cl. 77—63.

Garwin, Leo, to Kerr-McGee Oil Industries, Inc. Fractionation of bituminous substances. 3,053,751, 9–11–62, Cl. 208—45.

Garwin, Robert. Shredding machine for foam material. 3,067,958, 12–11–62, Cl. 241—55.

Garwood, William E. : *See*—
Ciapetta, Frank G., Coonradt, and Garwood. 3,015,549.
Ciapetta, Frank G., Coonradt, and Garwood. 3,046,219.

Gary, John E., and C. A. Cobb, to Republic Industrial Corp. Windlace. 3,056,182, 10–2–62, Cl. 24—259.

Gary, Lee J. : *See*—
Barrett, Edward L. 3,017,449.

Gary, Wright W. : *See*—
Sawyer, Edgar W., Jr., and Gary. 3,029,783.

Gary, Wright W. Exhaust treatment device with air compressor regulator. 3,034,290, 5–15–62, Cl. 60—30.

Gary, Wright W., to Minerals & Chemicals Philipp Corp. Process for affixing particulated mineral-type material to tobacco. 3,046,996, 7–31–62, Cl. 131—140.

Gary, Wright W. Catalytic converter system for internal combustion engines. 3,065,595, 11–27–62, Cl. 60—30.

Gas Drilling Services Co. : *See*—
Wells, Norman C. 3,065,807.

Gas Register Corp. : *See*—
Settlemire, Eugene F. 3,026,032.

Gasaccumulator, Svenska Aktiebolaget : *See*—
Hedberg, Oscar E. 3,031,285.

Gaschke, Marcel, to Rayonier Inc. Cellulose cross-linked ether. 3,058,975, 10–16–62, Cl. 260—231.

Gascoigne, Denis, and S. C. Watkins, to Joseph Lucas (Industries) Ltd. Duplex liquid fuel burner nozzles. 3,026,048, 3–20–62, Cl. 239—424.

Gash, William K. : *See*—
Parfrey, Francis T., and Gash. 3,028,624.

Gaskell & Chambers Ltd. : *See*—
Berwick, Albert G., and W. R. 3,036,820.

Gaskell, Walter L., to King-Seeley Thermos Co. Woodworking jointer. 3,035,619, 5–22–62, Cl. 144—129.

Gaskell, Walter L., to King Seeley Thermos Co. Miter gauge. 3,051,204, 8–28–62. Cl. 143—169.

Gaskill, George M. : *See*—
Guyton, James H., and Gaskill. 3,057,557.

Gaskin, Mervyn G., and V. S. Hourigan, to Taylor & Gaskin, Inc. Storage facility. 3,032,212, 5–1–62, Cl. 214—16.1.

Gaskins, Jack C., to Batson-Cook Co. Pile fabric cutting machine. 3,044,141, 7–17–62, Cl. 26—10.

Gasmire, Richard C., to Owens-Illinois Glass Co. Apparatus for making plastic articles. 3,032,819, 5–8–62, Cl. 18—30.

Gasmire, Richard C., to Owens-Illinois Glass Co. Method of and apparatus for making a plastic article. 3,065,501, 11–27–62. Cl. 18—5.

Gasoline Plant Construction Corp. : *See*—
Koebrue, Meinhard H. 3,022,054.

Gaspar, Bela : *See*—
Dreyfuss, Paul D., Gaspar, and Linden. 3,053,655.

Gaspar, Emeric, M. G. Munns, and P. F. Harrison, to The Projectile and Engineering Co. Ltd. Hydraulic motor driven injection moulding machines. 3,068,521, 12–18–62, Cl. 18—30.

Gaspar, Joseph J., and C. K. Beckner, Sr. Portable frame straightener. 3,034,563, 5–15–62, Cl. 153—32.

Gasperetti, Robert L. : *See*—
Heins, James S., and Gasperetti. 3,045,171.

Gassaway, James S. Adjustable throw eccentric. 3,030,822, 4–24–62, Cl. 74—571.

Gassaway, James S. Body manipulating apparatus. 3,030,-949, 4–24–62, Cl. 128—33.

Gassen, Horst, to Stahlwerke Südwestfalen, A.G. Induction furnace coil. 3,046,320, 7–24–62, Cl. 13—31.

Gasser, Adolf : *See*—
Ferrari, Alfredo, and Gasser. 3,046,834.
Ferrari, Alfredo, and Gasser. 3,048,082.
Ferrari, Alfredo, and Gasser. 3,062,090.

Gasser, William : *See*—
Baker, Francis E., and Gasser. 3,067,428.

Gassino, Teresio : *See*—
Capellaro, Natale, and Gassino. 3,040,977.

Gassmann, Heinrich : *See*—
Mottu, Andre, Gassmann, and Koechlin. 3,036,493.

Gassmann, Johannes. : *See*—
Scherenberg, Hans O., and Gassmann. 3,040,723.

Gassmann, Johannes, to Daimler-Benz Aktiengesellschaft. Gas turbine arrangement, particularly for motor vehicles. 3,037,348, 6–5–62, Cl. 60—309.16.

Gassmann, Johannes, to Daimler-Benz Aktiengesellschaft. Gas turbine installation, particularly for motor vehicles. 3,037,-349, 6–5–62, Cl. 60—39.16.

Gassmann, Johannes, and S. Maier, to Daimler-Benz Aktiengesellschaft. Free piston units. 3,035,560, 5–22–62, Cl. 123—46.

Gassner, Francis X., and C. O. Guss. Anti-bacterial composition containing 6-acetoxy-mercurichoLesterol and method of use. 3,034,962, 5–15–62, Cl. 167—71.

Gassner, Georges, to Les Ateliers de Constructions Mecaniques C. & A. Holweg. Apparatus for heat sealing a thermoplastic web in which the heat is controlled by the speed of the web. 3,016,085, 1–9–62, Cl. 154—42.

Gasson, Denys B., to Metropolitan-Vickers Electrical Co. Ltd. Electron gun assemblies. 3,034,012, 5–8–62, Cl. 313—146.

Gasson, Edward J., J. D. Hadley, and B. Wood, to The Distillers Co. Ltd. Conversion of ammonium salts. 3,031,500, 4–24–62, Cl. 260—515.

Gast, Albert K., Jr., to Star Shade Cutter Co. Plug and pin assembly for shade rollers. 3,064,452, 11–20–62, Cl. 64—5.

Gast Mfg. Corp. : *See*—
Billingham, Sam J. 3,040,836.

Gaston, Dexter W., to Wall Rope Works, Inc. Cordage and method for producing the same. 3,016,682, 1–16–62, Cl. 57—140.

Gaston, Dexter W., to Wall Rope Works, Inc. Rope. 3,055,-167, 9–25–62, Cl. 57—144.

Gaston, Gardner E., and D. W. Howard, to Gulf Research & Development Co. Nonstalling gasoline composition. 3,025,-147, 3–13–62. Cl. 44—62.

Gaston, Gardner E., and D. W. Howard, to Gulf Research & Development Co. Nonstalling gasoline motor fuel. 3,033,-665, 5–8–62, Cl. 44—66.

Gastright, Frank A., to Vend-A-Box, Inc. Box erecting and vending machine. 3,024,583, 3–13–62, Cl. 53—186.

Gastright, Frank A., to Vend-A-Box, Inc. Popcorn packaging and delivering. 3,024,710, 3–13–62, Cl. 93—53.

Gastright, Frank A., to Vend-A-Box, Inc. Box erecting and vending machine. 3,044,371, 7–17–62, Cl. 93—53.

Gatcombe, Ernest K. : *See*—
Crittenden, Eugene C., Jr., and Gatcombe. 3,053,271.

Gates, Albert G. R., to Gestetner Ltd. Priming liquid applicator for offset rotary printing machines. 3,043,215, 7–10–62, Cl. 101—148.

Gates, Archie N. Archery bow sling. 3,055,354, 9–25–62, Cl. 124—24.

Gates, Beverly L., and J. H. Scindorff. Bundle tying apparatus. 3,068,780, 12–18–62, Cl. 100—4.

Gates, Charles E., to Bendix-Westinghouse Automotive Air Brake Co. Valve mechanism for vehicle air springs. 3,026,103, 3–20–62, Cl. 267—65.

Gates Cyclo International, Inc. : *See*—
Helbig, Jim D. 3,018,759.

Gates, Earl J., to Servco Equipment Co. Counters and sliding closures therefor. 3,017,233, 1–16–62, Cl. 312—322.

Gates, George H., and A. F. Finelli, to The Goodyear Tire & Rubber Co. Composition comprising polyester, diisocyanate and cellulosic filler and wearing surface for shoe prepared therefrom. 3,022,257, 2–20–62, Cl. 260—9.

Gates, Harris G., to Gates & Sons, Inc. Combined tie lock and reinforcing timber clamp. 3,018,538, 1–30–62, Cl. 25—131.

Gates, Harris G., to Gates & Sons, Inc. Scaffold support bracket. 3,070,337, 12–25–62, Cl. 248—205.
Gates, Hesslar H., to Ex-Cell-O Corp. Three-point stabilized gage. 3,063,156, 11–13–62, Cl. 33—178.
Gates, John W., Jr.: *See*—
Chiesa, Peter P., Dann, and Gates. 3,068,102.
Dann, John R., and Gates. 3,062,646.
Gates, Lauren W., to Sperry Rand Corp. Hay baler. 3,068,781, 12–18–62, Cl. 100—21.
Gates, Major E. Brick press. 3,041,701, 7–3–62, Cl. 25—60.
Gates Radio Co.: *See*—
Kruse, William P. 3,061,668.
Gates Rubber Co., The: *See*—
Ciapetta, Frank G., Coonradt, and Garwood. 3,023,159.
Cone, Irwin C., and Jenkins. 3,022,039.
Moore, Charles O., and Van Tassel. 3,023,798.
Passimbene, Ernest. 3,040,383.
Pavlik, Charles J., and Songer. 3,043,612.
Gates & Sons, Inc.: *See*—
Gates, Harris G. 3,018,538.
Gates, Harris G. 3,070,337.
Gates, Stanley H.: *See*—
Tuttle, Seth. 3,044,259.
Gates, Thomas S.: *See*—
Bregi, Benjamin F., and Gates. 3,048,066.
Gates, Thomas S., to National Broach & Machine Co. Gear finishing machine. 3,046,705, 7–31–62, Cl. 51—105.
Gates, Thomas S., to National Broach & Machine Co. Gear finishing machine. 3,068,759, 12–18–62, Cl. 90—1.6.
Gatewood, Leonard L.: *See*—
Doyle, William M. 3,029,754.
Gather, Rudolf. Ribbon feeding device for typewriting machine. 3,026,987, 3–27–62, Cl. 197—153.
Gathman, David W., to Bethlehem Steel Co. Long splice and method of making same. 3,017,739, 1–23–62, Cl. 57—142.
Gatsis, John G., to Universal Oil Products Co. Removal of metals and nitrogen from hydrocarbon feed stocks. 3,036,968, 5–29–62, Cl. 208—251.
Gatta, Giorgio, and G. Benetta, to Sicedison S.p.A. Process for the preparation of an auxiliary suspending agent to be used for obtaining, by a suspension polymerization process, polyvinyl chloride having a high porosity and a non-glass-like surface. 3,049,520, 8–14–62, Cl. 260—85.7.
Gatti, Arno: *See*—
St. Pierre, Philippe D. S., and Gatti. 3,026,177.
Gatti, Fernando: *See*—
De Barbieri, Ettore, and Gatti. 3,019,458.
Gatti, Joseph D. Apparatus for making a filling containing pastry. 3,026,822, 3–27–62, Cl. 107—19.
Gatti, Pier G.: *See*—
Ranucci, Saverio, and Gatti. 3,067,266.
Gattone, Daniel H.: *See*—
Birch, Herbert M., and Gattone. 3,024,787.
Gattone, Daniel H. Light gathering power converter. 3,018,313, 1–23–62, Cl. 136—89.
Gattone, Daniel H., to Birch and Gattone, Inc. Means for administering oxygen during resuscitation. 3,060,927, 10–30–62, Cl. 128—29.
Gatz, William J., to Baker Perkins Inc. Pusher apparatus for bread coolers and the like. 3,054,495, 9–18–62, Cl. 198—24.
Gatza, Eugene M., to The Dow Chemical Co. Paint stripping composition and method. 3,058,918, 10–16–62, Cl. 252—139.
Gatzert, Ernest H.: *See*—
Berch, William H., Boyer, and Gatzert. 3,041,399.
Pharis, William W., and Gatzert. 3,047,679.
Gatzert, Ernest H., to General Dynamics Corp. Prepay pay-station telephone system. 3,020,347, 2–6–62, Cl. 179—6.3.
Gatzert, Ernest H., to General Dynamics Corp. Transfer means for reverting call circuit. 3,025,353, 3–13–62, Cl. 179—1.
Gaubatz, Arthur W., to General Motors Corp. Tilting jet nozzle. 3,032,982, 5–8–62, Cl. 60—35.5.
Gaubert, Rene J. Stacking mechanism. 3,024,921, 3–13–62, Cl. 214—6.
Gaubis, Leonard L., and D. G. Hall, to United Aircraft Corp. Propeller spinner shutoff valve. 3,045,762, 7–24–62, Cl. 170—135.743.
Gaucher, Leon P.: *See*—
Friedman, Louis D. and Gaucher. 3,051,644.
Gaudechon, Jacques: *See*—
Gailliot, Paul, and Gaudechon. 3,045,017.
Gaudet, Lawrence J., and G. A. Rose, to American Machine & Foundry Co. Electric cigar lighter. 3,040,160, 6–19–62, Cl. 219—32.
Gaudfrin, Guy: *See*—
Lavallee, Paul. 3,061,477.
Gaudian, Bernhard, and G. Goeze. Fungicidal composition. 3,046,188, 7–24–62, Cl. 167—14.
Gaudich, Hellmuth: *See*—
Schreyer, Karl, and Gaudich. 3,027,448.
Gaudillere, Pierre. Method and device for measuring the speed of an aircraft or the like. 3,020,540, 2–6–62, Cl. 343—8.
Gaudry, Edouard, to Aktiebolaget Electrolux. Motor-fan unit mounting for vacuum cleaner. 3,031,129, 4–24–62, Cl. 230—117.
Gaudry, Paul E., to Aktiebolaget Electrolux. Carrying handle for suction cleaner. 3,023,838, 3–6–62, Cl. 183—37.
Gaudry, Paul E., to Aktiebolaget Electrolux. Stator for dynamo-electric machines and tool for winding coils thereon. 3,027,475, 3–27–62, Cl. 310—260.
Gaugler, Edward A. Induction firing device for a rocket motor. 3,038,384, 6–12–62, Cl. 89—28.
Gaugler, Richard S.: *See*—
Long, George B., and Gaugler. 3,027,653.
Gaugler, Richard S., to General Motors Corp. Air conditioning. 3,021,692, 2–20–62, Cl. 62—271.
Gaugler, Richard S., to General Motors Corp. Refrigerating apparatus. 3,040,539, 6–26–62, Cl. 62—3.
Gaukstern, Karl, to E. R. Tretola. Automatic feeding apparatus. 3,043,479, 7–10–62, Cl. 222—129.
Gaul, Albro T.: *See*—
Hechenbleikner, Ingenuin, and Gaul. 3,056,823.
Gauldie, Kenneth, to Hydraulic Crushers Ltd. Hydraulically operated jaw crushers. 3,024,609, 3–13–62, Cl. 60—54.5.
Gauldie, Kenneth. Power transmitting means for hydraulically operated jaw crushers. 3,029,605, 4–17–62, Cl. 60—54.5.
Gauley, Sherman, to Bausch & Lomb Inc. Deceleration responsive brake. 3,029,906, 4–17–62, Cl. 188—136.
Gauley, Sherman, to Bausch & Lomb Inc. Deceleration responsive brake. 3,035,665, 5–22–62, Cl. 188—136.
Gault, Errol G., deceased (M. A. Gault, administratrix), and T. G. Gault. Rotary earth drilling bit. 3,043,384, 7–10–62, Cl. 175—385.
Gault, Mary A.: *See*—
Gault, Errol G. and T. G. 3,043,384.
Gault, Thomas G.: *See*—
Gault, Errol G. and T. G. 3,043,384.
Gaunt, James K., and P. C. Stephens, to Massey-Ferguson (Australia) Ltd. Machines for harvesting crops. 3,057,-141, 10–9–62, Cl. 56—119.
Gaunt, Wayne M., and R. F. Robins, to General Dynamics Corp. Masking process. 3,037,896, 6–5–62, Cl. 156—13.
Gauron, Roméo. Wrench. 3,069,947, 12–25–62, Cl. 81—165.
Gause, Edward H., to Monsanto Chemical Co. Stabilization of hydrogen cyanide. 3,049,408, 8–14–62, Cl. 23—151.
Gauswelle, Richard L.: *See*—
Christy, Arthur M. 3,055,148.
Gausman, Alfred P., and A. R. Zellmer, to Hayssen Mfg. Co. Packaging machine film sealing mechanism. 3,050,916, 8–28–62, Cl. 53—182.
Gauss, Allen W., to Union Steel Products Co. Portable barbecue. 3,048,162, 8–7–62, Cl. 126—25.
Gauss, Hugo E.: *See*—
Beaman, Norman V., Hudson, and Gauss. 3,046,812.
Gauss, Walter: *See*—
Domagk, Gerhard, and Gauss. 3,025,289.
Gauss, Walter, and S. Petersen, to Bayer Aktiengesellschaft, Farbenfabriken. Production of derivatives of 2-aminoquinones-1,4. 3,037,995, 6–5–62, Cl. 260—396.
Gauss, Walter, S. Petersen, to Farbenfabriken Bayer Aktiengesellschaft. New N-aryisulfo-N'-alkoxyureas. 3,047,-625, 7–31–62, Cl. 260—553.
Gautherin, George, to Andrea Radio Corp. Electrical control circuit. 3,030,587, 4–17–62, Cl. 330—145.
Gauthey, Albert, to IBM France Co. Pulse separating counter input device. 3,019,350, 1–30–62, Cl. 307—88.5.
Gauthier, Alfred, G.m.b.H.: *See*—
Barth, Fritz. 3,026,702.
Buhrle, Karl A. 3,041,949.
Buhrle, Karl A. 3,043,203.
Rentschler, Karl F. 3,018,708.
Rentschler, Karl F. 3,024,713.
Rentschler, Waldemar T. 3,018,706.
Rentschler, Waldemar T. 3,018,710.
Rentschler, Waldemar T. 3,022,714.
Rentschler, Waldemar T. 3,029,718.
Rentschler, Waldemar T. 3,037,435.
Rentschler, Waldemar T. 3,037,437.
Rentschler, Waldemar T. 3,037,439.
Rentschler, Waldemar T. 3,037,440.
Rentschler, Waldemar T. 3,038,398.
Rentschler, Waldemar T. 3,040,643.
Rentschler, Waldemar T. 3,041,948.
Rentschler, Waldemar T. 3,048,090.
Rentschler, Waldemar T. 3,056,496.
Rentschler, Waldemar T. 3,059,557.
Rentschler, Waldemar T. 3,065,682.
Rentschler, Waldemar T., and Starp. 3,062,112.
Rentschler, Waldemar T., and Starp. 3,068,768.
Starp, Franz W. R. 3,059,559.
Starp, Franz W. R. 3,062,118.
Teucher, Rudolf. 3,035,480.
Weller, Erwin. 3,060,826.
Gauthier, George E., to General Electric Co. Enclosed electric switch. 3,042,779, 7–3–62, Cl. 200—172.
Gauthier, William D., to Ransburg Electro-Coating Corp. Electrostatic coating apparatus. 3,021,077, 2–13–62, Cl. 239—15.
Gauthron, Maurice, and C. Beernaert, to Commissariat a l'Energie Atomique. Methods and apparatus for sheathing. 3,053,976, 9–11–62, Cl. 219—149.
Gautier, André, and O. Pommellet, to Commissariat a l'Energie Atomique. Creep testing machines. 3,026,709, 3–27–62, Cl. 73—15.6.
Gautraud, Michael G., and W. F. Huck, to Brunswick Automatic Pinsetter Corp. Ball speed controlling device. 3,018-,104, 1–23–62, Cl. 273—49.

Gauvin, Roland J., to United States of America, Navy. Battery charging system for submarines. 3,040,116, 6–19–62, Cl. 136—160.

Gauvreau, Alphonse P., to The Clark Controller Co. Time delay relay. 3,019,317, 1–30–62, Cl. 200—108.

Gauvreau, Alphonse P., to Cleveland Controls, Inc. Electrical relay. 3,065,319, 11–20–62, Cl. 200—106.

Gaver, Kenneth M., E. G. Adamek, and A. M. Barton, to Ogilvie Flour Mills Co. Ltd. Wheat germ process. 3,046,142, 7–24–62, Cl. 99—153.

Gavin, Austin F. Oxygen meter fitting. 3,019,646, 2–6–62, Cl. 73—201.

Gavin, Raymond T.: *See*—
Janota, Rudolph B., and Gavin. 3,025,256.

Gavin, Thomas H. Saw sharpening machine. 3,066,552, 12–4–62, Cl. 76—40.

Gavlin, Gilbert: *See*—
Boyer, William M., Gavlin, and Tarbell. 3,031,421.

Gavlin, Gilbert, M. J. Klein, and R. G. Maguire, to Gallery Chemical Co. Production and use of sodium dimethoxyboryl. 3,019,251, 1–30–62, Cl. 260—462.

Gavlin, Gilbert, and W. M. Boyer, to The Richardson Co. Method of sparing chlorinated phenolic-formaldehyde condensation products. 3,038,882, 6–12–62, Cl. 260—59.

Gavlin, Gilbert, and K. Hattori, to The Richardson Co. Process for making alkylenimines. 3,052,669, 9–4–62, Cl. 260—239.

Gavreau, Vladimir, A. Calaora, and M. Miane, to Centre National de la Recherche Scientifique. Electric servo-control for machine-tools. 3,028,530, 4–3–62, Cl. 318—27.

Gavurnik, Steven: *See*—
McCauley, John H., and Gavurnik. 3,042,826.

Gaw, Richard G., to Joy Mfg. Co. Apparatus for cleaning gases from ferrous metallurgical operations. 3,063,694, 11–13–62, Cl. 266—15.

Gawlik, Paul A., 5% to P. P. Flusche. Tool for detecting pipe leaks. 3,034,339, 5–15–62, Cl. 73—46.

Gawronski, Tadeusz L., to The Rover Co. Ltd. Vehicle pneumatic suspension system. 3,028,174, 4–3–62, Cl. 280—124.

Gawthrop, Alan, to Neotechnic Engineering Ltd. Metering dispenser for aerosol with depressible discharge tube operated flexible diaphragm. 3,033,425, 5–8–62, Cl. 222—335.

Gawthrop, Alan, to Rexall Drug and Chemical Co. (U.K.) Ltd. Dispensing devices. 3,049,269, 8–14–62, Cl. 222—307.

Gawthrop, Alan, to Neotechnic Engineering Ltd. Metering dispenser for aerosol with fluid pressure operated piston. 3,052,382, 9–4–62, Cl. 222—335.

Gawthrop, Alan, to Neotechnic Engineering Ltd. Dispensing device for aerosols. 3,058,629, 10–16–62, Cl. 222—394.

Gawthrop, Robert E. Fish stringer. 3,061,156, 10–30–62, Cl. 224—7.

Gay, Frank P., to E. I. du Pont de Nemours, and Co. Polymerization catalyst of cobaltous chloride and aluminum triisobutyl for vinyl acetate. 3,047,554, 7–31–62, Cl. 260—89.1.

Gay, Fred M. Mat holder composing stick. 3,035,687, 5–22–62, Cl. 199—63.

Gay, Freres, S.A.: *See*—
Gay, Jean-Pierre. 3,046,726.

Gay, Jean-Pierre, to Freres Gay, S.A. Chain of chess-board pattern. 3,046,726, 7–31–62, Cl. 59—80.

Gayhardt, Joseph T. Disposal of waste starch-containing residues. 3,037,931, 6–5–62, Cl. 210—58.

Gayle, Robert E. Fishing reel. 3,061,230, 10–30–62, Cl. 242—84.2.

Gayle, Robert E. Fishing reel. 3,061,231, 10–30–62, Cl. 242—84.2.

Gayler, George A., to Wipac Development Ltd. Ignition systems for internal combustion engines. 3,037,148, 5–29–62, Cl. 315—206.

Gaylord, Asa K., to Gaylord Industries. Kitchen ventilating system. 3,055,285, 9–25–62, Cl. 98—115.

Gaylord Bros., Inc.: *See*—
Grant, Chester A., and Strand. 3,058,416.

Gaylord, Frank D., to Fairbanks, Morse & Co. Variable speed drive. 3,066,545, 12–4–62, Cl. 74—230.17.

Gaylord Industries: *See*—
Gaylord, Asa K. 3,055,285.

Gaylord, John A., to H. Hoch & Sons. Separable connection device for survival kits. 3,038,472, 6–12–62, Cl. 128—203.

Gaylord, John A., to H. Koch & Sons. Switch actuating device with preadjusted air resistance. 3,045,076, 7–17–62, Cl. 200—34.

Gaylord, Norman G., to Interchemical Corp. Ethoxyline graft copolymers containing the norbornene nucleus and coating compositions made therefrom. 3,028,359, 4–3–62, Cl. 260—45.2.

Gaylord, Norman G., to Interchemical Corp. New graft copolymers containing the norbornene nucleus, method of preparation and coating compositions containing same. 3,035,008, 5–15–62, Cl. 260—33.6.

Gaylord, Norman G., to Interchemical Corp. New acrylic copolymers and methods for producing same. 3,058,965, 10–16–62, Cl. 260—89.5.

Gaylord, Norman G., to Interchemical Corp. Coating compositions comprising a blend of an alkylolated acrylamid-epoxide condensation product and a norbornene-acrylic copolymer. 3,060,144, 10–23–62, Cl. 260—33.4.

Gaylord, Norman G., to Interchemical Corp. Composition comprising (1) a reaction product of an aldehyde and the condensation product of a polyglycidyl ether and an acrylamide copolymer, (2) an unsaturated ester copolymer and (3) a polyester resin. 3,062,763, 11–6–62, Cl. 260—22.

Gaylord, Norman G., to Interchemical Corp. Composition comprising (A) reaction product of an aldehyde and an acrylamide copolymer, (B) an acrylic copolymer and (C) a polyester resin. 3,062,776, 11–6–62, Cl. 260—45.4.

Gaynes, Raymond A., and R. C. Schnabel, to Mystik Adhesive Products, Inc. High and low temperature pressure-sensitive adhesive tape. 3,032,438, 5–1–62, Cl. 117—76.

Gaynor, Edwin G. Fluorescent lamp holder. 3,052,864, 9–4–62, Cl. 339—53.

Gaynor, Frank A., J. B. Gibbons, and H. W. Taylor, to General Electric Co. Damping control. 3,045,956, 7–24–62, Cl. 244—78.

Gaynor, James W., and R. J. Eisenhauer, to Standard Oil Co. Stabilized metal-working lubricant. 3,024,193, 3–6–62, Cl. 252—18.

Gaynor, James W., and P. C. Vienna, to Standard Oil Co. Glass grinding process employing a non-foaming oiliness agent. 3,062,745, 11–6–62, Cl. 252—56.

Gayring, Wallace F., to Ward Industries Corp. Sleeve seam locater. 3,051,359, 8–28–62, Cl. 223—73.

Gayring, Wallace F., and H. Uhlig, to The Prosperity Co., Division of Ward Industries Corp. Shirt folding machine. 3,057,133, 10–9–62, Cl. 53—117.

Gazzo, Salvatore F.: *See*—
Schlosser, Francis G., and Gazzo. 3,050,620.

Gearhart, Glenn D., to Sioux Steam Cleaner Mfg. Co., Inc. Water pump. 3,046,070, 7–24–62, Cl. 309—4.

Gearheart, John D.: *See*—
Christoff, Chris A., and Gearheart. 3,058,638.

Gearheart, John D., to Clary Corp. Strip folding device. 3,067,997, 12–11–62, Cl. 270—79.

Gearing, Richard R.: *See*—
Andresen, Alf S., Gearing, and Beck. 3,062,568.

Geary, Joseph F., Jr., to United States of America, Navy. Swivel nozzle. 3,048,977 8–14–62, Cl. 60—35.55.

Geary, Robert J., and R. Haber, to Plant Products Corp. Plant growth regulator. 3,038,794, 6–12–62, Cl. 71—2.5.

Geary, Thomas A.: *See*—
Hinrichs, Ferdinand, and Geary. 3,034,443.

Geary, Thomas A., to Ladish Co. Method of manufacturing valve bodies. 3,066,631, 12–4–62, Cl. 113—116.

Geary, Thomas A., to Ladish Co. Diaphragm valves. 3,067,764, 12–11–62, Cl. 137—315.

Gebel, Harry: *See*—
Farbak, John E., Gebel, and Gibson. 3,021,221.

Gebel, Radames K. H., to United States of America, Air Force. Supervisory communication system. 3,046,331, 7–24–62, Cl. 178—6.8.

Gebel, Radames K. H., to United States of America, Air Force. Transistorized amplifier-transmitter for low light level television cameras. 3,046,333, 7–24–62, Cl. 178—7.2.

Gebel, Radames K. H., to the United States of America, Air Force. Image corthicon with a narrow range of electron energy in the scanning beam. 3,052,807, 9–4–62, Cl. 313—82.

Gebele, Kurt: *See*—
Fahlenberg, Paul, Gebele, and Singer. 3,059,558.

Gebele, Kurt, to Compur-Werk Friedrich Deckel oHG. Bayonet coupling for cameras. 3,030,862, 4–24–62, Cl. 88—57.

Gebele, Kürt, to Compur-Werk Friedrich Deckel oHG. Photographic camera. 3,044,376, 7–17–62, Cl. 95—10.

Gebele, Kürt, to Compur-Werk Friedrich Deckel oHG. Photographic camera. 3,044,377, 7–17–62, Cl. 95—10.

Gebele, Kurt, to Compur-Werk Friedrich Deckel oHG. Depth of field indicating mechanism for cameras with interchangeable objectives. 3,049,065, 8–14–62, Cl. 95—64.

Gebele, Kürt, and E. Spiessl, to Compur-Werk Friedrich Deckel oHG. Photographic shutter. 3,044,382, 7–17–62, Cl. 95—63.

Gebele, Kurt, and F. Singer, to Compur-Werk G.m.b.H. & Co. Photographic camera. 3,065,683, 11–27–62, Cl. 95—10.

Gebele, Kürt, and F. Singer, to Compur-Werk G.m.b.H. & Co. Photographic camera. 3,067,665, 12–11–62, Cl. 95—64.

Gebert & Cie: *See*—
Stähli, Paul. 3,027,567.

Gebert, Russell C., to James Lees and Sons Co. Tufting apparatus. 3,025,807, 3–20–62, Cl. 112—79.

Gebhard, David F.: *See*—
Goland, Leonard, Gebhard, and Kenworthy. 3,027,948.

Gebhardt, Alfred A.: *See*—
Merrill, Charles W., and Gebhardt. 3,025,702.

Gebhart, Julius C.: *See*—
Franklin, Leslie U., and Gebhart. 3,042,615.

Gebien, Willard J. Shipping container and method for transporting liquefied gases and the like. 3,050,951, 8–28–62, Cl. 62—45.

Gebler, Elton M., to Vulcan Mfg. Co., Inc. Automobile jack. 3,023,999, 3–6–62, Cl. 254—99.

Gechele, Giovanni B., A. Nenz, and G. Barberis, to Sicedison A.p.A. Process for inhibiting the polymerization of nitrogenated heterocyclic vinyl compounds. 3,020,284, 2–6–62, Cl. 260—290.

Geckle, Raymond J.: *See*—
Precht, Walter, Geckle, and Frank. 3,015,615.

Geckler, Richard D., to Aerojet-General Corp. Means for supporting a propellant charge in a rocket motor. 3,015,209, 1–2–62, Cl. 60—35.6.

Geddes, Charles A., to Anchor Hocking Glass Corp. Closure. 3,028,033, 4–3–62, Cl. 215—44.
Geddes, Charles A., to Anchor Hocking Glass Corp. Closure and sealed package. 3,061,132, 10–30–62, Cl. 215—44.
Gedeit, Reinhold. Rotary engines and the like. 3,030,941, 4–24–62, Cl. 123—13.
Gee, Eric, H. Gudgeon, and K. Stephenson, to Imperial Chemical Industries Ltd. Preparation of cellular polyester organic polyisocyanate reaction product using amide catalyst. 3,019,200, 1–30–62, Cl. 260—2.5.
Gee, Frank W. Ferranti, Ltd. Inductive windings. 3,069,640, 12–18–62, Cl. 336—69.
Gee, George: *See*—
White, Harold, and Gee. 3,027,293.
Gee, Paul Y. C.: *See*—
Andress, Harry J., Jr., and Gee. 3,031,282.
Andress, Harry J., Jr., and Gee. 3,039,860.
Andress, Harry J., Jr., and Gee. 3,039,861.
Andress, Harry J., Jr., and Gee. 3,046,102.
Gee, Paul Y. C., and H. J. Andress, Jr., to Socony Mobil Oil Co., Inc. Stabilized jet combustion fuels. 3,034,876, 5–15–62, Cl. 44—62.
Gee, Paul Y. C., and H. J. Andress, Jr., to Socony Mobil Oil Co., Inc. Stabilized jet combustion fuels. 3,051,562, 8–28–62, Cl. 44—62.
Gee, Paul Y. C., and H. J. Andress, Jr., to Socony Mobil Oil Co., Inc. Thermally-stable jet combustion fuels. 3,068,083, 12–11–62, Cl. 44—70.
Gee-Bee, Inc.: *See*—
De Ford, Ambrose A. 3,056,604.
Geer, Austin C. Lawn edge trimming device. 3,038,464, 6–12–62, Cl. 126—271.2.
Geer, Charles W., to Hoffman Electronics Corp. Solar energy converters. 3,026,439, 3–20–62, Cl. 313—100.
Geer, Donald D., to General Electric Co. Article and method of joining vitreous material. 3,041,710, 7–3–62, Cl. 29—195.
Geer, Harold C. Multi-hanger bracket for conduit support. 3,022,030, 2–20–62, Cl. 248—58.
Geer, Howard E., Jr. Toy missile launcher. 3,068,851, 12–18–62, Cl. 124—16.
Geer, Ronald L.: *See*—
Foster, Kenneth W., Newman, and Geer. 3,050,127.
Geer, Ronald L., and L. G. Otteman, to Shell Oil Co. Underwater wellhead with remotely-detachable flow line. 3,052,-299, 9–4–62, Cl. 16—66.5.
Geer, William E.: *See*—
Wilfley, Elmer R., and Geer. 3,022,740.
Geerfres Wringer, Inc.: *See*—
Bard, Elmer H. 3,031,207.
Geering, Emil J., to Hooker Chemical Corp. Unsaturated halogen-containing organic disulfides. 3,038,014, 6–5–62, Cl. 260—608.
Geerlings, Petrus J. Bulk gravity flow livestock feeder. 3,066,649, 12–4–62, Cl. 119—53.5.
Geerts, Marcellus J., to The Pure Oil Co. Isomerization of normal paraffins. 3,065,284, 11–20–62, Cl. 260—683.65.
Geerts, Marcellus J., and N. L. Carr, to The Pure Oil Co. Process and catalyst for isomerizing normal pentane and/or normal hexane. 3,024,294, 3–6–62, Cl. 260—683.68.
Geerts, Marcellus J., H. O. Folkins, and C. T. O'Malley, to The Pure Oil Co. Method of preparing cyanogen. 3,065,-056, 11–20–62, Cl. 23—151.
Geerts, Marcellus J., and C. T. O'Malley, to The Pure Oil Co. Method of preparing cyanogen. 3,065,057, 11–20–62, Cl. 23—151.
Geerts, Marcellus J., J. W. Walsh, and H. O. Folkins, to The Pure Oil Co. Separation of aromatic hydrocarbon using surface-modified solid adsorbent. 3,070,639, 12–25–62, Cl. 260—674.
Geese, Albert: *See*—
Paul, Walter, Geese, Gaber, and Greska. 3,051,799.
Geesner, Charles R.: *See*—
Barnes, Charles R., and Geesner. 3,038,243.
Geeson, Robert E., to The Metal Box Co. Ltd. Seaming rolls for securing ends on can bodies. 3,065,719, 11–27–62, Cl. 113—24.
Geffcken, Walter, to Jenaer Glaswerk Schott & Gen. Optical type glass compositions with high fluorine and titanium content. 3,068,108, 12–11–62, Cl. 106—47.
Geffken, Bernard W.: *See*—
Williams, William J., and Geffken. 3,063,709.
Geffner, Ted. Combined shackle and ejector mechanism for stores. 3,059,956, 10–23–62, Cl. 294—83.
Geffner, Ted, and E. Costa. Store supporting and ejecting assembly for aircraft. 3,037,805, 6–5–62, Cl. 294—83.
Geffner, Ted, and E. Costa. Store support and ejector shackle. 3,057,652, 10–9–62, Cl. 294—83.
Gegner, Henry: *See*—
Schlayer, Earle G., Gegner, Ballwig, and Sheridan. 3,053,386.
Gegoux, Roland E., and H. O. Schjolin, to General Motors Corp. Knock-down bus seat. 3,065,030, 11–20–62, Cl. 297—441.
Gehan, Mark W.: *See*—
Dalglish, Herbert F. 3,015,954.
Gehlen, Hermann W.: *See*—
Gillois, Jean, and Gehlen. 3,021,544.
Gehlhaar, Heinz F.: *See*—
Feldmann, Fritz K., Gehlhaar, Herrmann, and Petre. 3,067,682.
Gehm, Robert: *See*—
Dehnert, Johannes, and Gehm. 3,045,003.
Eisele, Julius, Frederkiel, Schuster, Gehm, Tartter, Graser, Rohland, and Stoeckl. 3,037,030.
Von Schickh, Gehm, and Paul. 3,027,356.
Gehm, Robert, O. Schmidt, and H. Mertens, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Optical brightening agents of the 4,4'-bis(triazinylamino)-stilbene disulfonic acid series. 3,051 704, 8–28–62, Cl. 260—240.
Gehman, John B.: *See*—
Begun, Semi J., Paradowsky, and Gehman. 3,032,765.
Gebner, Maurice A., to ACF Industries, Inc. Two-stage carburetor. 3,025,039, 3–13–62, Cl. 261—23.
Gehrie, Charles S., to Presto Lock Co. Latch and lock device for container. 3,020,742, 2–13–62, Cl. 70—69.
Gehrie, Charles S., to Presto Lock Co. Luggage latching device. 3,020,743, 2–13–62, Cl. 70—69.
Gehrie, Charles S., to Presto Lock Co. Handle member for luggage and other portable containers. 3,034,617, 5–15–62, Cl. 190—57.
Gehrie, Charles S., to Presto Lock Co. Hinges. 3,049,748, 8–21–62, Cl. 16—171.
Gehrig, Albert K., and H. W. Day, to F. V. Gehrig. Valve spring compressor. 3,048,644, 7–31–62, Cl. 29—213.
Gehrig, Florence V.: *See*—
Gehrig, Albert K., and Day. 3,046,644.
Gehring, Harvey T., to The Sherwin-Williams Co. Method of foam suppression in oil-in-water emulsions by use of solvent solution of liquid polyvinyl isobutyl ether. 3,017,375, 1–16–62, Cl. 260—22.
Gehringer, Karl-Heinz: *See*—
Rösch, Georg, Klappert, and Gehringer. 3,063,779.
Rösch, Georg, Klappert, and Gehringer. 3,063,780.
Gehrke, Emil J. W. Mobile pelletizing apparatus. 3,063,361, 11–62, Cl. 100—98.
Gehrkens, George R., to North American Aviation, Inc. Barricade strap fences. 3,033,497, 5–8–62, Cl. 244—110.
Gehrmann, Klaus: *See*—
Vogt, Wilhelm, and Gehrmann. 3,047,638.
Vogt, Wilhelm, Gehrmann, and Sennewald. 3,048,639.
Vogt, Wilhelm, Gehrmann, and Sennewald. 3,067,241.
Vogt, Wilhelm, Weiden, Gehrmann, and Senneweld. 3,015,677.
Geibel, Emmett H., to Borg-Warner Corp. Fastener clip. 3,033,332, 5–8–62, Cl. 189—35.
Geier, Herbert F., and H. F. Irving. Mixers. 3,023,455, 3–6–62, Cl. 18—12.
Geier, Leonard W.: *See*—
Derby, Palmer P., and Geier. 3,046,445.
Geiger, Armando: *See*—
Geiger, Georg, and A. 3,051,719.
Geiger, Georg and A., and Pfister. 3,029,249.
Geiger, Friedrich, to Daimler-Benz Aktiengesellschaft. Improved sliding roof portions for motor vehicles. 3,036,860, 5–29–62, Cl. 296—137.
Geiger, Friedrich, to Daimler-Benz Aktiengesellschaft. Foldable roof for motor vehicles. 3,050 334, 8–21–62, Cl. 296—107.
Geiger, Friedrich K., to Daimler-Benz Aktiengesellschaft. Motor car having a folding top compartment and a cover therefor. 3,053,567, 9–11–62, Cl. 296—107.
Geiger, Friedrich, to Daimler-Benz Aktiengesellschaft. Removable top for motor car body. 3,065,021, 11–20–62, Cl. 296—102.
Geiger, Georg, to Sandoz Ltd. Process for the dyeing of synthetic polyamides in the mass. 3,023,186, 2–27–62, Cl. 260—37.
Geiger, Georg, to Sandoz, Ltd. Process for the production of chlorine-containing pigments of the phthalocyanine series. 3,030,379, 4–17–62, Cl. 260—314.5.
Geiger, Georg and A., and X. Pfister, to Sandoz Ltd. (also known as Sandoz A.G.). Process for the production of phthalocyanines and metal phthalocyanines stable to separation. 3,029,249, 4–10–62, Cl. 260—314.5.
Geiger, Georg, and A., to Sandoz Ltd. Phthalocyanines stable to separation. 3,051,719, 8–28–62, Cl. 260—314.5.
Geiger, Georg, and X. Pfister, to Sandoz Ltd. Process for the production of copper phthalocyanine stable to separation. 3,065,092, 11–20–62, Cl. 106—176.
Geiger, Johann. Rotary piston internal combustion engines. 3,036,560, 5–29–62, Cl. 123—17.
Geiger, John H. Closed cycle gaseous medium system and method. 3,048,982, 8–14–62, Cl. 60—108.
Geiger, Julius: *See*—
Ossenbrunner, Schnell, Klockgether, Geiger, and Freier. 3,023,101.
Geiger, Julius, A. Ossenbrunner, and M. Coenen, to Agfa Aktiengesellschaft. Photographic film with antihalation layer. 3,018,177, 1–23–62, Cl. 96—84.
Geiger, Karl, S. L. Shapiro, and L. Freedman, to U.S. Vitamin and Pharmaceutical Corp. Process for alkyl and aralkyl biguanides. 3,059,029, 10–16–62, Cl. 260—564.
Geiger, Otto, to Ruti Machinery Ltd., formerly Caspar Honegger. Device for facilitating insertion of bobbins in reserve bobbin magazines. 3,043,345, 7–10–62, Cl. 139—245.
Geiger, Robert F. Apparatus for metal adhesive bonding. 3,025,208, 3–13–62, Cl. 156—382.
Geiger, Rudolf: *See*—
Weygand, Friedrich, and Geiger. 3,030,380.

Geigy Chemical Corp.: *See*—
Denss, Rolf, Girod, and Hafliger. 3,031,465.
Dietrich, Henri. 3,040,031.
Dietrich, Henri. 3,056,776.
Dietrich, Henri, and Schindler. 3,056,774.
Eugster, Conrad H. 3,051,728.
Eugster, Conrad H., Denss, Hafliger, and Girod. 3,024,252.
Eugster, Conrad H., Denss, Hafliger, and Girod. 3,041,355.
Graf, Wilfried, Schmid, and Stoll. 3,055,904.
Graf, Wilfried, Schmid, and Stoll. 3,055,905.
Graf, Wilfried, Schmid, and Stoll. 3,055,930.
Holstius, Elvin A. 3,044,931.
Knell, Martin, and Kroll. 3,028,407.
Kroll, Harry, Simonian, and Knell. 3,038,793.
Leonard, Frederick. 3,023,235.
Leonard, Frederick. 3,032,581.
Pfister, Rudolf, and Hafliger. 3,025,299.
Renner, Ulrich, and Prins. 3,049,546.
Rubin, Martin, and Dexter. 3,062,719.
Schindler, Walter. 3,025,288.
Schindler, Walter. 3,036,064.
Schindler, Walter. 3,052,689.
Schindler, Walter. 3,052,690.
Schindler, Walter. 3,056,775.
Spivack, John D. 3,048,620.
Spivack, John D., Peterson, and Kroll. 3,027,405.
Teufel, Helmut. 3,041,336.
Viscontini, Max P. A., and Adank. 3,056,800.
Voltz, Jacques, and Bossard. 3,055,881.
Ziegler, Erich. 3,062,816.
Ziegler, Erich, and Litvan. 3,052,678.
Ziegler, Erich, Rossmann, and Litvan. 3,022,317.
Zussman, Hyman W., and Pines. 3,063,944.

Geigy Co. Ltd., The: *See*—
Campbell, George A., and Howard. 3,026,265.

Geigy, J. R., A.G.: *See*—
Beffa, Fabio, Dussy, and Schetty. 3,068,219.
Biedermann, Walter, and Schetty. 3,062,806.
Bindler, Jakob. 3,027,370.
Critchley, Stuart W., and Lamb. 3,048,545.
Daglish, Anthony F., Vonderwahl, and Tillotson. 3,017,412.
Daglish, Anthony F., Vonderwahl, and Tillotson. 3,043,780.
Frick, Wilhelm E., and Stammbach. 3,034,955.
Gysin, Hans, Knüsli, and Rumpf. 3,053,843.
Hopff, Henrich, and Wick. 3,060,246.
Jung, Jean-Pierre, and Schetty. 3,045,005.
Kleemann, Alois, and Roggero. 3,034,907.
Kuster, Werner. 3,030,353.
Margot, Alfred. 3,030,267.
Margot, Alfred. 3,030,268.
Margot, Alfred. 3,037,908.
Pugin, Andre, and Bindler. 3,057,873.
Schumacher, Ernst J. 3,042,597.
Staub, Alfred. 3,041,129.
Stocker, Emil, and Pugin. 3,060,189.
Vonderwahl, Rodolphe. 3,035,061.
Zweidler, Reinhard. 3,028,253.

Geimer, Cornelius J., to Freeman Mfg. Co. Maternity garment. 3,045,678. 7–24–62. Cl. 128—554.

Geipel, Harvey A., to Nu Industries, Inc. Sod harvesting machine. 3,053,328, 9–11–62, Cl. 172—19.

Geiseler, Gerhard: *See*—
Clausnitzer, Martin, and Geiseler. 3,052,524.

Geiselman, Arnold: *See*—
Kuhlenschmidt, Harold L. and F. E., and Arthur and Arnold Geiselman. 3,051,323.

Geiselman, Donald L.: *See*—
Stram, George, McIntyre, and Geiselman. 3,043,434.

Geiser, Edward M., to Universal Oil Products Co. Paint compositions. 3,037,875, 6–5–62, Cl. 106—253.

Geiser, Edward M., to Universal Oil Products Co. Copolymer of an unsaturated side chain aromatic compound and an alkylene diamine. 3,037,970, 6–5–62, Cl. 260—93.5.

Geiser, Edward M., to Universal Oil Products Co. Preparation of resinous materials. 3,068,209, 12–11–62, Cl. 260—73.4.

Geisert, Paul. Antiskid device. 3,033,262, 5–8–62, Cl. 152—219.

Geisler, Alan S., to Atlas Chemical Industries, Inc. Dye composition for edible fat and method of preparing the same. 3,035,923, 5–22–62, Cl. 99—148.

Geissler, Theodor, to Kohlenscheidungs-Gesellschaft m.b.H. Radiant tubular boiler. 3,025,844, 3–20–62, Cl. 122—235.

Geissner, George J., and J. H. Leonard, to I-T-E Circuit Breaker Co. Circuit breaker handle baffle. 3,053,958, 9–11–62, Cl. 200—168.

Geist, Harold E. Illuminated table. 3,019,331, 1–30–62, Cl. 240—2.

Geist, William J., to Continental Can Co., Inc. Drum cover fastener means. 3,063,612, 11–13–62, Cl. 229—5.7.

Geist, William L., to R.C. Can Co. Method for making telescopic containers. 3,036,502, 5–29–62, Cl. 93—94.

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Geisthoff, Hubert, to B. W. Muller and K. Schroter. Protection for articulated shafts. 3,053,062, 9–11–62, Cl. 64—4.

Gelatt, Charles D., to Microcard Reader Corp. Monocular microreproduction reader. 3,064,528, 11–20–62, Cl. 88—39.

Gelb, John: *See*—
Baber, Thompson, and Gelb. 3,027,481.

Gelbert, Heinz: *See*—
Reindl, Eugen, and Gelbert. 3,069,448.

Geleijnse, Johannes J. W.: *See*—
Van den Berge, Hendrik J., Bliek, Geleijnse, and Van der Maat. 3,019,505.

Gelencser, Julius. Surface projectile game. 3,065,968, 11–27–62, Cl. 273—126.

Gelenius, Robert B., to General Motors Corp. Temperature compensation circuit for transistor amplifiers. 3,022,464, 2–20–62. Cl. 330—13.

Gelenkwellenbau G.m.b.H.: *See*—
Kempf, Willi. 3,042,148.
Kempf, Willi. 3,050,351.
Kempf, Willi. 3,052,107.
Kleinschmidt, Hans-Joachim. 3,020,036.
Kleinschmitt, Hans-Joachim. 3,020,110.
Kleinschmidt, Hans-Joachim. 3,054,276.

Gelfand, Leonard, to Erico Products, Inc. Frangible mold. 3,020,608, 2–13–62, Cl. 22—116.

Gelfand, Nathan M.: *See*—
Nielsen, Edwin A., and Gelfand. 3,065,569.

Gelfand, Nathan M., to Ideal Toy Corp. Toy projectile launching device. 3,031,797, 5–1–62, Cl. 46—81.

Gelfand, Seymour, to Hooker Chemical Corp. Preparation of aroyl chloroalkyl esters. 3,050,549, 8–21–62, Cl. 260—475.

Gelin, Paul, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Improvements to jet deflecting devices, particularly for discharge nozzles of propulsion units. 3,041,829, 7–3–62, Cl. 60—35.54.

Gelinean, Antonio G. O. Duck feet cloppers. 3,032,897, 5–8–62, Cl. 36—7.5.

Gell, Philip A. M., to Elemelt Ltd. Glass melting. 3,030,434, 4–17–62, Cl. 13—6.

Gellasch, George E.: *See*—
Bell, William A., and Gellasch. 3,063,208.

Geller, Julius: *See*—
Krieger, Hans, Schweym, and Geller. 3,037,239.

Geller, Roscoe G., to Stakmore Co, Inc. Folding chair with flaring back. 3,030,141, 4–17–62, Cl. 297—60.

Geller, Thomas L., to The West Bend Co. Thermostatic switch. 3,033,960, 5–8–62, Cl. 200—138.

Geller, William: *See*—
Fischman, Martin, and Geller. 3,038,128.

Gellert, Alvin W., to Burroughs Corp. Magnetic core memory construction. 3,025,502, 3–13–62, Cl. 340—174.

Gellert, Alvin W., to Burroughs Corp. Encapsulated component assembly. 3,046,452, 7–24–62, Cl. 317—101.

Gellert, Don L., to Litecraft Mfg. Corp. Lighting fixture with pre-wired junction box. 3,057,993, 10–9–62, Cl. 240—78.

Gellert, Hans G.: *See*—
Ziegler, Karl, Gellert, and Nagel. Re. 25,179.

Gellert, Hans-Georg: *See*—
Ziegler, Karl, and Gellert. 3,032,574.
Ziegler, Karl, Gellert, and Bonitz. 3,015,669.

Gellert, Jobst, Cigarette dispensing package. 3,019,892, 2–6–62, Cl. 206—41.2.

Gelletich, Dusan S.: *See*—
Baker, John F., Gelletich, and Wasylenko. 3,060,277.

Gelling, Helmut, to Walter Buromaschinen Gesellschaft m.b.H. Mechanism for controlling the printing of decimal signs in the amounts printed in calculating machines. 3,016,007, 1–9–62, Cl. 101—93.

Gelling, Helmut, to Walther Buromaschinen Gesellschaft m.b.H. Control mechanism in adding and calculating machines. 3,026,030, 3–20–62, Cl. 235—79.

Gelling, Helmut, to Walther Buromaschinen Gesellschaft m.b.H. Mechanism for taking negative totals. 3,061,186, 10–30–62, Cl. 235—60.2.

Gellmann, Daniel. Universal shower seat with faucet grippers. 3,040,335, 6–26–62, Cl. 4—148.

Gelman, Charles, and D. N. Kramer, to United States of America, Army. Enzymatic method for detection of anticholinesterases. 3,049,411, 8–14–62, Cl. 23—232.

Geloso, Giovanni, and A. Castelli. Device for the band or wire drive control in magnetic recorders or the like. 3,028,–111, 4–3–62, Cl. 242—55.12.

Geloso, Giovanni, and A. Castelli. Translation indicator of the recorded areas on a magnetic tape. 3,048,143, 8–7–62, Cl. 116—135.

Gelow, Lavern E., to Peter Eckrich and Sons, Inc. Display easel. 3,056,572, 10–2–62, Cl. 248—223.

Gemeinhardt, Paul G., and R. L. Sandridge, to Mobay Chemical Co. Preparation of cellular polyurethane plastics. 3,060,137, 10–23–62, Cl. 260—2.5.

Gemeinhardt, Paul G., to Mobay Chemical Co. Preparation of cellular polyurethane plastics. 3,061,556, 10–30–62, Cl. 260—2.5.

Gemeinhardt, William. Pump. 3,058,428, 10–16–62, Cl. 103—150.

Gemelli, Joseph C. Apparatus for printing spiral stripes. 3,068,838, 12–18–62, Cl. 118—316.

Gemmell, Robert E.: *See*—
Gagg, James, Stone, and Gemmell. 3,061,220.

Gemmell, Robert J., and G. D. Nelson, to Monsanto Chemical Co. Methods of preparing stannous pyrophosphate. 3,028,-216, 4–3–62, Cl. 23—105.
Gemmer, Erwin, to Knapsack-Griesheim Aktiengesellschaft. Fluidized bed coating method and apparatus. 3,063,860, 11–13–62, Cl. 117—18.
Gemmi, Angiolo, to Elettracarbonium S.p.A. Process of joining carbon bodies. 3,055,789, 9–25–62, Cl. 156—327.
Gemsa, Johannes, to Patent-Treuhand-Gesellschaft fur elektrische Gluhlampen m.b.H. Electrode for high-pressure electric discharge lamps. 3,054,014, 9–11–62, Cl. 313—352.
Genduso, Robert S. Bobbin-carrying shuttle devices. 3,039,-411, 6–19–62, Cl. 112—95.
Gener AC Corp.: *See*—
Kern, Robert D. 3,042,850.
General Aeronautics, Inc.: *See*—
Wiebe, Henry J. 3,042,130.
General American Transportation Corp.: *See*—
Aller, Edmund R. 3,048,448.
Aller, Edmund R. 3,048,449.
Batzer, David, and Spraul. 3,054,523.
Clejan, Deodat. 3,016,925.
Clejan, Deodat. 3,043,242.
Clejan, Deodat. 3,050,320.
Crehan, William J., Klouse, and Talmey. 3,065,535.
De Grandpre, Etienne. 3,033,129.
De Grandpre, Etienne. 3,063,385.
De Grandpre, Etienne. 3,063,389.
Frost, William G. 3,040,439.
Graves, Charles T. 3,060,962.
Horner, Frank W., Jr. 3,043,468.
Lee, Warren G., and Milito. 3,029,158.
O'Brien, Philip R. 3,054,223.
Perlman, Raymond, and Horner. 3,040,438.
Price, Albert E. 3,063,386.
Spraul, Joseph R., and Batzer. 3,047,477.
Talmey, Paul. 3,017,532.
Talmey, Paul. 3,062,156.
General Aniline & Film Corp.: *See*—
Ackermann, Carl A. 3 060,828.
Albus, Charles P., and Sargent. 3,042,524.
Albus, Charles P., and Stoner. 3,028,396.
Alexander, Walter N. 3,046,093.
Anderson, Robert J. 3 033,896.
Anspon, Harry D. 3,028,343.
Azorlosa, Julian L., and Martinelli. 3,062,737.
Beller, Hans. 3,031,348.
Ben-Ezra, Aaron J. 3,042,522.
Ben-Ezra, Aaron, and Rese. 3,050,394.
Bloom, Albert, and Graham. 3,063,980.
Bostwick, Wallace L. 3,054,673.
Brouillard, Robert E., Gannon, and Katz. 3,041,192
Buc, Saul R., Freyermuth, Mayhew, and Randall. 3,062,830.
Buc, Saul R., and Randall. 3,019,266.
Buc, Saul R., and Randall. 3,019,268.
Burgardt, Lothar, Pelz, and Wahl. 3,034,891.
Catino, Sigmund C., Strobel, and Williams. 3,022,284.
Cerwonka, Edward. 3,060,029.
Chebiniak, Paul. 3,030,210.
Chiddix, Max E., and Enyeart. 3,033,889.
Claudi-Magnussen, Finn. 3,034,946.
Copenhaver, John W. 3,022,321.
Copes, Joseph P., and Gantz. 3,056,744.
Cox, Robert J. 3,061,049.
Dersch, Fritz. 3,052,544.
Dersch, Fritz. 3,060,028.
Dersch, Fritz. 3,068,100.
Dersch, Fritz, and De Angelus. 3,023,103.
Dersch, Fritz, and De Angelus. 3,046,130.
Dersch, Fritz, and Doorenbos. 3,023,102.
Dersch, Fritz, Kaszuba, and Rauch. 3,051,570.
Dersch, Fritz, and Popeck. 3,021,213.
Duerr, Herman H. 3,049 967.
Duerr, Herman H. 3,060,022.
Duggins, William E. 3,018,218.
Dumers, Dewey M., and Diener. 3,029,145.
Evans, Helene D., Mueller, and Levinos. 3,041,172.
Fowle, Irving H. 3 043 487.
Frantz, Frederick H. 3,027,822.
Frantz, Frederick H., and Ackermann. 3,016,002.
Frantz, Frederick H., and Ackermann. 3,055,266.
Freyermuth, Harlan B., and Mayhew. 3,062,831.
Glickman, Samuel A., and Miller. 3,016,366.
Glickman, Samuel A., and Miller. 3,016,367.
Glickman, Samuel A., and Miller. 3,022,274.
Glickman, Samuel A., and Miller. 3 036 046.
Glickman, Samuel A., and Miller. 3,040,004.
Grifo, Richard A., and Mayhew. 3,022,250.
Herrick, Clifford E., Jr. 3,069,268.
Herrick, Clifford E., Jr., Lafreniere, and Straw. 3,015,562.
Hessel, Frederick A. 3,016,352.
Hessel, Frederick A. 3,025,150.
Hessel, Frederick A., and Prescott. 3,016,351.
Hoffstadt, Walter F. 3,056,675.
Hoffstadt, Walter F., and Altavilla. 3,056,674.
Huber, Frederic R., and Schenck. 3,053,910.
Johnson, Carl E. 3,042,520.
Klinger, Guenther H. 3,068,099.
Kottman, Joseph J., and Goodman. 3,033,433.
General Aniline & Film Corp.: *See*—Continued
Levinos, Steven. 3,052,541.
Levinos, Steven. 3,053,745.
Levinos, Steven. 3,061,431.
Levinos, Steven. 3,065,160.
Levinos, Steven, and Mueller. 3,050,390.
Mackey, E Scudder, and Rice. 3,053,662.
Marschall, Franz. 3,031,460.
Mayhew, Raymond L., Miller, and Kopp. 3,018,251.
Milazzo, Joseph S. 3,023,220.
Nitka, Heinz F. 3,051,837.
Nunn, Leslie G., Jr., and Wilson. 3,061,506.
Popeck, Stanley P., Dersch, and Wurth. 3,044,87 l.
Posselt, Frederick W., and Stanley. 3,029,122.
Rauch, Emil B., and Dersch. 3,026,201.
Roth, Curt B. 3,042,514.
Roth, Curt B., Horwitz, and Levine. 3,062,815.
Schmidt, Harold N., Tullsen, Katz, and Lytle. 3,022,299.
Schmidt, Willy A., and Downey. 3,035,914.
Schenck, Leslie M. 3,057,889.
Schneck, Leslie M., and Nunn. 3,061,552.
Schultz, Herman S. 3,063,967.
Schultz, Herman S. 3,063,968.
Smith, Carl M., and Graham. 3,032,526.
Steckler, Robert, and Werner. 3,018,267.
Steckler, Robert, Werner, and Hessell. 3,061,650.
Stoner, George G., and Wright. 3,061,569.
Streck, Clemens. 3,057,887.
Strobel, Albert F., and Catino. 3,052,636.
Strobel, Albert F., and Catino. 3,069,456.
Sulich, John, Jr. 3,052,542.
Taber, David. 3,061,593.
Takats, Zoltan, and Jacobson. 3,018,709.
Takats, Zoltan, and Andrusek. 3,022,715.
Tiedemann, Herman. 3,022 173.
Tiedemann, Herman H. 3,040,073.
Thomas, Telfer L. 3,060,221.
Thompson, Thomas R., and Clark. 3,050,391.
Werner, Jesse. 3,033,831.
Williams, Sumner H. 3,056,275.
Wolfe, Edwin W. 3 047,412.
General Applied Science Laboratories, Inc.: *See*—
Ferri, Antonio. 3,018,034.
General Atronics Corp.: *See*—
Blain, Albert. 3,054,875.
Blain, Albert. 3,061,761.
Preston, Glenn W. 3,023,342.
Roop, Robert W. 3,045,221.
Sunstein, David E. 3,028,728.
General Bathroom Products Corp.: *See*—
Schwartz, Morris, and Tantillo. 3,038,771.
General Binding Corp.: *See*—
Levitan, Maurice D. 3,038,180.
Nadherny, Russell J. 3,038,181.
General Box Co.: *See*—
Kordowski, Edward S. 3,027,038.
Kordowski, Edward S. 3,037,655.
General Bronze Corp.: *See*—
Keulemans, Gustaf M. 3,058,175.
General Cable Corp.: *See*—
Jerome, Jack. 3,067,802.
McGrath, Martin H. 3,068,315.
Polizzano, Fred F. 3,069,490.
Rubinstein, Solomon, Garner, and Eager. 3,023,267.
General Cigar Co., Inc.: *See*—
Cleverdon, Desmond. 3,043,723.
Dreher, John A. 3,060,775.
Hess, Earl H. 3,020,179.
Kaufmann, Theodore. 3,067,753.
General Classics, Inc.: *See*—
Kramer, Marvin, and Zazove. 3,027,670.
General Controls Co.: *See*—
Grayson, Richard D. 3,040,581.
Grayson, Richard D., and Newton. 3,063,639.
Hezarifend, Roger J. 3,023 622.
Lonn, Harold J. 3,069,908.
Raffaelli, Joseph G. 3,040,399.
Ray, William A. 3,025,873.
Ray, William A. 3,035,608.
Ray, William A. 3 035,774.
Ray, William A. 3,040,775.
Ray, William A. 3,058,039.
Ray, William A. 3,058,665.
Ray, William A., and Hedger. 3,061,695.
Ray, William A., Wollar, and Wilson. 3,047,224.
Schwerke, Robert E. 3,033,953.
Wollar, Burrell J. 3,043,157.
General Corrugated Machinery Co., Inc.: *See*—
Keely, Clifford D. 3,018,701.
Keely, Clifford D., and Baisley. 3,045,402.
Keely, Clifford D., and Baisley. 3,052,072.
General Crude Oil Co.: *See*—
Pew, Joseph N., III. 3,070,361.
General Development Corp.: *See*—
Schaer, Glenn R. 3,042,592.
General Devices Co., Inc.: *See*—
Berry, Bernie B., Jr., Davis, May, and Young. 3,061,252.
Brinster, John F., and Johnson. 3,052,871.
General Dispersions Inc.: *See*—
Goldsmith, Robert, and Hess. 3,023,120.
General Doors Corp.: *See*—
Pickell, Edward B. 3,036,826.

General Dynamics Corp.: *See*—
Baker, Adolph A., and Shaffer. 3,066,245.
Baldwin, Leroy D. 3,056,098.
Balman, Clarence A. 3,039,234.
Bartlett, William F., and Ross. 3,066,192.
Bartlett, William F., and Scott. 3,041,401.
Bass, Harold E., and White. 3,050,082.
Berch, William H. 3,066,194.
Berch, William H., Boyer, and Gatzert. 3,041,399.
Bettin, Roger R., Hahnel, Harrison, and Schwittek. 3,054,057.
Blinston, James C. 3,061,817.
Blow, Angus W. 3,061,687.
Bornemann, William J., Senior, and Wochner. 3,065,681.
Boyd, Sherman H. 3,066,242.
Brightman, Barrie. 3,020,419.
Brightman, Barrie. 3,066,193.
Broadwell, Walter B. 3,028,589.
Burrow, Laurie R. 3,018,439.
Clement, Milton A. 3,047,664.
Clement, Milton A. 3,051,789.
Cody, Henry B. 3,066,229.
Confeld, James D., Ellis, and Jorgensen. 3,025,355.
Corpew, Charles R. 3,035,199.
David, Freddy. 3,015,694.
Durkee, John E. 3,025,394.
Durkee, John E. 3,038,071.
Dutton, Donald A. 3,058,011.
Earls, David E., and Morris. 3,066,262.
Eisaman, Leo C., and Tobias. 3,015,790.
Fischer, Robert G. 3,064,855.
Fischer, Robert G. 3,067,894.
Fisher, Charles R., Jr. 3,041,475.
Foote, Howard L. 3,024,991.
Foster, Gilbert C. 3,041,502.
Franco, George A., and Lachs. 3,036,157.
Frankel, Theodor. 3,041,403.
Frankel, Theodor. 3,061,680.
Gantschnigg, Gottfried K., and Ziegler. 3,029,688.
Gardner, Frederick H. 3,051,913.
Gatzert, Ernest H. 3,020,347.
Gatzert, Ernest H. 3,025,353.
Gauntt, Wayne M., and Robins. 3,037,896.
Goeddel, Walter V. 3,056,685.
Goral, Ernest W. 3,035,141.
Gratian, Joseph W. 3,041,414.
Gratian, Joseph W. 3,041,415.
Gratian, Joseph W. 3,051,796.
Gratian, Joseph W., and O'Brien. 3,020,360.
Hamann, Omer F. 3,020,441.
Hamann, Omer F. 3,035,202.
Harris, Ben A. 3,068,320.
Harris, Ben A., Baxter, and Wiseman. 3,015,737.
Harrison, John E. R. 3,054,968.
Harrison, John E. R. 3,054,969.
Harrison, John E. R. 3,061,742.
Harrison, John E. R., Lennon, and Van Sandwyk. 3,060,329.
Harvey, George W., and Brower. 3,043,981.
Heese, William E., and White. 3,019,771.
Hendry, George, and Mellinger. 3,026,972.
Herrman, Robert F. 3,015,773.
Hider, Theodore M., Rennilson, and Frech. 3,047,871.
Jaensch, Klaus H. 3,024,906.
Jorgensen, Otto A. 3,051,891.
Kerst, Donald W. 3,026,447.
Killian, George W. 3,041,406.
King, John A. 3,019,849.
Kirk, Donald R., and Smith. 3,020,986.
Kirk, Donald R., and Warren. 3,029,910.
Kline, James A. 3,038,450.
Knapp, William J. 3,049,447.
Kreisler, Robert I., Evans, and Skaar. 3,068,459.
Lennon, George V., III. 3,066,259.
Livingstone, James K. 3,035,122.
Lummis, Bruce D. 3,061,686.
Mancini, Alfonso R. 3,015,644.
Mayer, Edward F. 3,043,684.
McMillan, John C. 3,033,039.
McNaney, Joseph T. 3,027,779.
McNaney, Joseph T. 3,037,135.
McNaney, Joseph T. 3,037,202.
McNaney, Joseph T. 3,047,759.
McNaney, Joseph T. 3,047,768.
McNaney, Joseph T. 3,047,858.
McNaney, Joseph T. 3,051,044.
McNaney, Joseph T. 3,051,867.
McNaney, Joseph T. 3,056,931.
McNaney, Joseph T. 3,066,235.
McNaney, Joseph T. 3,066,298.
McReynolds, Andrew W., and Dijkstra. 3,019,176.
McWhorter, Bobby J., and Johnson. 3,016,591.
Merten, Ulrich. 3,070,526.
Morris, Frank A. 3,035,125.
Morris, George F. 3,015,816.
Morris, George F. 3,051,905.
Morris, James E. 3,059,511.
Morrison, Robert F. 3,028,563.
Murek, Josef K. 3,039,439.
Murphy, Roy E., Jr., and Weil. 3,038,449.
Nay, James A. 3,052,839.
Nielsen, Jorgen L. 3,021,489.

General Dynamics Corp.: *See*—Continued
Ottestad, Jack B. 3,046,737.
Ottestad, Jack B., and Skeen. 3,039,292.
Ottestad, Jack B., Skeen, and Baker. 3,036,538.
Parks, William J. 3,051,787.
Pazmany, Ladislao. 3,034,752.
Peach, John A. 3,061,685.
Pedrick, Robert F. 3,015,698.
Penczek, Edward S., and Furguson. 3,020,175.
Persson, Sten I. 3,027,535.
Persson, Sten I., and Reynolds. 3,015,477.
Pharis, William W., and Gatzert. 3,047,679.
Raver, Jack. 3,020,511.
Reynolds, Zack D. 3,061,816.
Richards, Glenn L. 3,015,741.
Richards, Glenn L. 3,061,681.
Richards, Paul, and Wolf. 3,060,367.
Ridnour, Robert H. 3,030,865.
Robb, David T. 3,047,680.
Rugaber, Robert H., Wheeler, and Townsend. 3,037,130.
Sauber, Charles R. 3,030,579.
Schmidt, Edward R. 3,023,281.
Schmidt, Louis V., and Hixenbaugh. 3,045,954.
Schneider, Gerhard O. K. 3,047,669.
Schneider, Gerhard O. K. 3,047,817.
Shalloway, Arthur M. 3,028,590.
Sharp, Rodman A., and Eichen. 3,049,887.
Siebert, Raymond C. 3,025,066.
Siebert, Raymond C. 3,025,161.
Signorelli, Frank J., and Farrar. 3,029,480.
Smith, David S. J. 3,056,113.
Stearns, Mary B. 3,053,923.
Stern, Martin O. 3,029,643.
Stern, Marvin A. 3,066,196.
Stern, Marvin A., and Woodhull. 3,066,195.
Straehl, Robert N. 3,051,946.
Szachnitowski, Stanley A. 3,063,258.
Tyrlick, William V. 3,015,813.
Volberg, Herman W. 3,020,530.
Volberg, Herman W. 3,025,342.
Volberg, Herman W., and Beach. 3,015,693.
Walker, Watson F., and Reynolds. 3,035,184.
Werner, Robert V., Weaver, and Crooks. 3,025,520.
Woodhull, William M. 3,020,351.
Zarcone, Carl J. 3,020,337.
General Dynamics Corp., (Convair Division): *See*—
Bowers, Kenneth, and Vincelett. 3,067,611.
Keller, Edward E., and Medico. 3,059,474.
General Electric Co.: *See*—
Abbott, Harold W. 3,024,447.
Abbott, Harold W., and Mathis. 3,043,516.
Abbott, Roy W. 3,022,049.
Aberle, Robert C. 3,022,654.
Aberle, Robert C. 3,046,772.
Abolins, Visvaldis. 3,037,885.
Acosta-Lleras, Alfonso. 3,033,914.
Adams, Charles J., and Werts. 3,046,370.
Adamson, Arthur P., and Berman. 3,065,597.
Adamthwaite, Frank V., Jr., and Kim. 3,041,552.
Addamiano, Arrigo. 3,022,144.
Agens, Maynard C. 3,020,056.
Agens, Maynard C. 3,031,301.
Albinger, Harry, Jr. 3,043,947.
Albinger, Harry, Jr., and Marble. 3,043,948.
Alford, Joseph S. 3,038,304.
Alford, Joseph S. 3,068,645.
Alford, Joseph S., and Taylor. 3,041,825.
Allen, Ely G., and Carleton. 3,050,282.
Alley, Robert P., and Dowdle. 3,042,837.
Alley, Robert P., and Wilkerson. 3,046,449.
Amans, Robert L. 3,037,938.
Ambrose, George R. 3,053,437.
Anderson, Andrew M. 3,058,328.
Anderson, John G. 3,034,124.
Anderson, John M. 3,050,687.
Anderson, Robert M. 3,046,770.
Anderson, Robert M., and Demchock. 3,041,862.
Anderson, Robert M., and Demchock. 3,046,769.
Anderson, William P., and Poole. 3,061,315.
Andrews, John L. 3,017,489.
Angst, Gustave, and Lukens. 3,047,755.
Applebaum, Sidney. 3,026,475.
Ares, Manuel. 3,048,794.
Arndt, Richard H. 3,066,238.
Atchison, Leonard W. 3,040,543.
Atchison, Leonard W. 3,040,544.
Auger, Claude H. 3,056,578.
Aven, Manuel. 3,025,513.
Aven, Manuel. 3,025,244.
Aydelott, John C., and Peters. 3,067,817.
Bahra, Nassouh H. 3,044,000.
Bailey, Douglas G. 3,031,871.
Bailey, Francis M., and Canfield. 3,019,711.
Baird, Douglas O. 3,028,472.
Baldwin, George C. 3,050,652.
Bandenieks, Julius E. 3,017,470.
Bangert, Robert J., and Staley. 3,020,333.
Baranow, Sanford. 3,031,297.
Baranowski, Frank, Jr. 3,036,461.
Barnstead, John W. 3,021,873.
Barr, James R. 3,054,975.
Barton, Leon M., and Nordell. 3,020,482.

General Electric Co. : *See*—Continued
Baughman, Richard A. 3,053,073.
Baumann, Fred W., and Rosenberry. 3,034,035.
Bayless, Frank K. 3,019,465.
Bebinger, Jack E. 3,026,050.
Beckwith, Howard W., and McCoy. 3,063,311.
Bedford, Burnice D., and Goldberg. 3,042,838.
Beggs, James E. 3,041,209.
Beggs, James E. 3,050,651.
Bell, Gordon M. 3,031,598.
Benander, George B. 3,017,601.
Benander, George B. 3,061,716.
Bennett, Moreland P., and Levesque. 3,067,488.
Berger, Harold, and Fairman. 3,025,402.
Bernstein, Dagfinn. 3,050,664.
Bessarab, Michael. 3,020,446.
Bhimani, Bhupendrakumar V. 3,050,681.
Bianco, Ernest E., and Zieba. 3,059,043.
Bigelow, John E. 3,040,983.
Bigelow, John E. 3,056,026.
Bigelow, John E., Van Luik, Dunham, and Rich. 3,037,-421.
Binford, Robert S., O'Neill, and Clark. 3,034,292.
Bixler, Harley H. 3,060,055.
Blackmer, Richard H. 3,061,658.
Blank, John M. 3,027,327.
Bleke, Ellis R. 3,064,290.
Bluestein, Ben A. 3,047,497.
Bluestein, Ben. A. 3,047,528.
Bluestein, Ben A. 3,065,202.
Bobear, William J. 3,031,352.
Bobear, William J. 3,031,430.
Bobear, William J. 3,053,687.
Bobo, Melvin. 3,056,579.
Bochan, John. 3,021,956.
Bochan, John. 3,050,869.
Bochan, John. 3,065,622.
Bochan, John. 3,067,303.
Bochan, John, and Houser. 3,048,026.
Bochan, John, and Pool. 3,026,700.
Bodge, Philip K. 3,027,473.
Bodge, Philip K. 3,027,691.
Bolander, Warren W., and Chausse. 3,068,451.
Boldebuck, Edith M. 3,063,872.
Boose, Emery F. 3,047,815.
Borneman, Christian H. 3,028,773.
Borneman, Christian H. 3,050,027.
Boot, Reginald J. 3,057,825.
Bovenkerk, Harold P. 3,031,269.
Bowar, Gerald J., Kelley, and Wiles. 3,031,653.
Bowling, Teamus. 3,035,243.
Boyd, Leo R., and Bock. 3,043,954.
Boyles, Robert L. 3,025,365.
Boyles, Robert L. 3,059,414.
Boyles, Robert L. 3,062,931.
Branch, Garland M., Jr. 3,050,657.
Braun, Howard E. 3,020,888.
Brauner, Edward J. 3,039,067.
Brauner, Edward J. 3,056,086.
Briggs, Walton E. 3,026,715.
Bristow, Robert H. 3,023,492.
Bristow, Robert H. 3,060,040.
Brooks, Robert D. 3,042,600.
Brown, Burton P., and Robbins. 3,041,558.
Brown, Dale H., and Leiby. 3,022,235.
Brown, John F., Jr., and Vogt. 3,017,386.
Brown, Ralph J. 3,065,425.
Brown, Russell A. 3,062,990.
Brown, Stanley R. 3,047,812.
Buchanan, Hershel I. 3,025,094.
Buchhold, Theodor A. 3,026,151.
Buchhold, Theodor A. 3,044,309.
Bueche, Arthur M., and Oliver. 3,024,146.
Bueche, Arthur M., and Oliver. 3,031,366.
Buesing, Richard T., Gifford, and Shepherd. 3,049,710.
Busch, Floyd H., and Sawada. 3,018,356.
Busch, Floyd H., and Sawada. 3,051,813.
Butler, William L. 3,020,514.
Butsch, Richard L., and Schulte. 3,034,518.
Cacciotti, Joseph J. 3,024,522.
Cahn, Harold L. 3,037,882.
Cain, Bernard M. 3,049,633.
Cain, Dallas E. 3,018,125.
Camilli, Guglielmo. 3,028,566.
Camilli, Guglielmo. 3,028,568.
Camilli, Guglielmo, and Uhlig. 3,032,728.
Camilli, Guglielmo, and Uhlig. 3,028,569.
Campbell, Hugh E. 3,041,118.
Campbell, Hugh E. 3,062,599.
Canfield, Eugene B. 3,044,305.
Carli, Vincent J., and Hallinan. 3,045,329.
Carlton, William W., and Burnham. 3,044,258.
Carreker, Roland P., Jr., and Parke. 3,060,053.
Carson, Andrew B., Jr. 3,024,434.
Carson, Charles W. 3,040,783.
Cary, Kenneth H., Nagamatsu, and Sheer. 3,031,591.
Casey, Edward J. 3,042,918.
Casler, Adrien F., and Love. 3,024,905.
Cederstrom, Curtiss M., and Mellyn. 3,016,230.
Chaiten, Harold. 3,034,007.
Chapman, Walter H. 3,029,994.
Chestek, James H. 3,018,626.
General Electric Co. : *See*—Continued
Chow, Woo F. 3,025,476.
Clark, Donald E. 3,033,491.
Clark, Earl W. 3,029,388.
Clark, Edward B. 3,061,338.
Clark, Jack W. 3,056,672.
Clark, Richard J. 3,021,386.
Clark, Robert B., and Perotte. 3,031,522.
Cobean, Richard W. 3,065,320.
Cobine, James D., and Cook. 3,021,409.
Coble, Robert L. 3,026,210.
Coggeshall, Almy D. 3,024,302.
Coggeshall, Almy D. 3,027,476.
Coggeshall, Almy D. 3,047,756.
Coggeshall, Thellwell R. 3,065,322.
Cook, Edward J. 3,046,442.
Cook, Leonard W. 3,032,633.
Cook, Newell C. 3,024,175.
Cook, Newell C. 3,024,176.
Cook, Newell C. 3,024,177.
Cooper, Glenn D., and Gilbert. 3,037,005.
Coppola, Patrick P. 3,016,472.
Coppola, Patrick P. 3,048,146.
Cormia, Keith C., and Aird. 3,049,214.
Costas, John P. 3,047,659.
Costas, John P. 3,047,660.
Costello, Charles A., Richards, and Wesolowski. 3,065,367.
Couleur, John F. 3,026,034.
Couleur, John F. 3,026,035.
Couleur, John F. 3,032,266.
Coultrip, Raymond R. 3,055,327.
Cox, Bonnar, and Goldberg. 3,040,984.
Cram, Kenneth H., and Wetzel. 3,033,727.
Criffield, Melvin E., and Weissborn. 3,024 771.
Cross, Richard N. 3,037,398.
Crowley, George C. 3,046,513.
Crowther, Russell L. 3,042,598.
Cumpston, Edward H., Jr. 3,042,741.
Cushing, Donald S. 3,029,825.
Cushing, Donald S. 3,040,663.
Cushing, Donald S. 3,062,412.
Custin, Thomas C., and Smith. 3,031,623.
Daily, Roy, and Fabel. 3,047,676.
Damon, Richard W. 3,064,201.
Daniels, Franklin W. 3,020,182.
Dantowitz, Philip. 3,059,660.
Daunt, John E., and Grandey. 3,053,694.
Davis, David R., and Watson. 3,034,764.
Day, Harold R., Jr. 3,020,433.
Dean, John K., Jr. 3,033,957.
De Jean, Milton V. 3,030,528.
De Monterey, Francis G. A. 3,047,499.
Denison, James W., Jr. 3,045,332.
Deschenes, Paul L., and Royce. 3,039,176.
Dickey, Frank R., Jr. 3,020,541.
Diefendorf, Russell J. 3,038,337.
Dills, Raymond L. 3,015,712.
Dills, Raymond L. 3,024,344.
Dills, Raymond L. 3,041,440.
Dills, Raymond L. 3,053,963.
Dimke, Harold L. 3,038,764.
Dinger, Edward H. 3,024,401.
Dinger, Edward H. 3,064,174.
Dome, Robert B. 3,039,061.
Dome, Robert B. 3,040,261.
Dome, Robert B. 3,068,323.
Doucette, Lionel J. 3,019,116.
Drum, John J. 3,048,804.
Duane, James T. 3,017,562.
Dunham, Stuart B. 3,060,747.
Dubberley, Charles A. 3,066,497.
Eastman, Warren O. 3,039,989.
Edgar, Robert F., and Tompkins. 3,042,862.
Eff, Christian A. 3,059,088.
Eggenberger, Markus A. 3,027,137.
Eissmann, Kurt W., and Shade. 3,059,172.
Eldredge, Arnold L. 3,058,073.
Elhoff, William C. 3,042,917.
Ellert, Frederick J. 3,018,383.
Ellis, George W. 3,048,655.
Engelman, Helmuth W. 3,068,701.
Ertell, Glenn G., and Rhoades. 3,062,996.
Erzer, John K., and Martin. 3,054,361.
Etherington, Ralph. 3,054,966.
Euker, Harold W., and Fogal. 3,067,684.
Euler, George M. 3,031,558.
Euler, George M. 3,062,943.
Evjen, John M. 3,035,189.
Farrall, Robert A. 3,028,499.
Farrel, Adam N. 3,051,859.
Farrelly, Richard J. 3,018,449.
Favre, John A. 3,023,285.
Felts, Herman. 3,036,368.
Felts, Herman. 3,067,397.
Fetter, Carl E. 3,034,703.
Fiedler, Howard C. 3,069,299.
Fink, Donald E., and McArdle. 3,029,826.
Finley, Edwin D., and Pennoyer. 3,067,911.
Fischer, Albrecht G. 3,033,659.
Fischer, George W. 3,052,967.
Fisher, Lawrence E. 3,026,396.
Fitzgerald, Albert J. 3,022,872.

General Electric Co. : *See*—Continued
Flaws, John, Jr., and Dunbar. 3,028,712.
Fleming, David G., and Guth. 3,047,718.
Flowers, Ralph G., Butt, and Howe. 3,058,951.
Forrer, Max P. 3,037,168.
Forrer, Max P., and Met. 3,046,497.
Forster, Carl F., and Roensch. 3,064,291.
Foster, Harold S. 3,032,861.
Foster, Harold S. 3,041,756.
Foster, Harold S. 3,045,370.
Francis, Wallace R. 3,015,877.
Frank, Edward J. 3,025,375.
Frank, Gerald F. 3,047,745.
Frank, Robert G., and Jones. 3,035,341.
Fridrich, Elmer G. 3,047,052.
Fridrich, Elmer G. 3,067,357.
Friend, Neil V., and Malone. 3,041,571.
Gallo, Ella A. 3,026,851.
Gardiner, Emmett G. 3,042,428.
Gauthier, George E. 3,042,779.
Gaynor, Frank A., Gibbons, and Taylor. 3,045,956.
Geer, Donald D. 3,041,710.
Genuit, Luther L. 3,018,498.
Genuit, Luther L., and Popa. 3,037,147.
George, Philip D. 3,021,297.
Gibson, Van R., Jr. 3,047,778.
Giegerich, Bertrand V. 3,025,432.
Glaberson, Louis. 3,030,475.
Gleichauf, Paul H. 3,032,608.
Gleichauf, Paul H. 3,045,140.
Gleichauf, Paul H. 3,049,641.
Glenn, William E. Re. 25,169.
Glenn, William E., Jr. 3,044,358.
Glenn, William E., Jr. 3,063,331.
Glenn, William E., Jr. 3,065,295.
Glenn, William E., Jr. 3,070,688.
Goetter, William F. 3,066,264.
Goetter, William F., and Millham. 3,066,210.
Goldberg, Eugene P. 3,021,305.
Goldberg, Eugene P. 3,030,331.
Goldberg, Eugene P. 3,030,335.
Goldberg, Jacob, and Cox. Re. 25,263.
Goldberg, Jacob, and Cox. 3,017,103.
Good, William E., and True. 3,037,170.
Goodman, Gilbert. 3,069,25.
Gordon, Walter H., Jr. 3,038,058.
Graf, Samuel E., and Hirsch. 3,061,454.
Gray, Willard F. M. 3,044,892.
Greco, Norman A. 3,039,068.
Greenwood, Allan N. 3,031,180.
Grenoble, Herbert E. 3,049,869.
Grimshaw, Charles. 3,017,478.
Grimshaw, Charles. 3,065,323.
Guptill, Edwin C. 3,026,477.
Gursahaney, Kishin J. 3,042,780.
Guth, Lauren W. 3,034,034.
Guth, Lauren W., and Cushing. 3,067,759.
Gutzwiller, Frank W. 3,040,270.
Haines, Edward M., and Hughes. 3,017,162.
Hall, Robert N. 3,030,704.
Hall, Robert N. 3,065,351.
Hallay, Alexander, and Haymaker. 3,058,033.
Halsted, Richard E. 3,031,574.
Hamm, Clarence L., and Widlansky. 3,038,556.
Hammerly, Herman J. 3,020,515.
Hanizeski, Roman H. 3,064,766.
Hannam, Herbert J. 3,032,859.
Hansen, Albert, Jr., Kelley, Somos, and Tobin. 3,070,739.
Hansen, Robert J. 3,060 424.
Harder, Arthur J., Jr. 3,027,753.
Harke, Martin W., and Smith. 3,028,945.
Harker, David. 3,030,512.
Harle, Harold P. 3,034,312.
Harlin, Floyd. 3,065,955.
Harrison, Don E. 3,017,365.
Hart, Benjamin F., and Carlson. 3,062,267.
Harton, Lynn M., and Henderson. 3,053,945.
Hausz, Walter. 3,040,310.
Heckelman, Richard W. 3,064,145.
Hegel, George W., and Tomaszewski. 3,027,148.
Heintz, Milton L. 3,024,731.
Hemmeter, George R. 3,042,556.
Hermann, Gerald P., and Tremor. 3,040,212.
Herrick, Carlyle S. 3,020,129.
Hicks, William R. 3,025,490.
Hilliker, Donald E. 3,019,619.
Hines, Douglas P. 3,069,909.
Hobson, Robert R., and Wilcox. 3,020,887.
Hodges, Merwyn E. 3,067,340.
Hoffman, Herbert N. 3,026,891.
Hollopetre, John H. 3,033,418.
Holub, Fred F., and Kantor. 3,036,992.
Homkes, Bartell J. 3,052,100.
Hopkins, Earl E. 3,066,395.
Hoppin, George S., III. 3,028,235.
Hoppin, George S., III, and Levinstein. 3,024,109.
Horecky, Stanley V. 3,043,125.
Houser, Philip H. 3,019,380.
Houser, Philip H. 3,021,702.
Houser, Philip H. 3,026,701.
Houser, Philip H. 3,029,838.
Houser, Philip H. 3,065,620.

General Electric Co. : *See*—Continued
Houston, John M. 3,046,439.
Howard, Charles F., and Keane. 3,048,651.
Howell, Edward K. 3,054,991.
Howells, Paul W., and Dominguez. 3,060,380.
Huening, Walter C., Jr. 3,031,710.
Hughes, Philip G. 3,055,202.
Hughes, Philip G., and Lawrence. 3,024,637.
Hughes, Stanley G. 3,035,190.
Hurd, Dallas T., and Osthoff. 3,021,292.
Hurko, Bohdan. 3,038,462.
Hurko, Bohdan. 3,066,242.
Hurko, Bohdan. 3,067,315.
Hurko, Bohdan, and Williams. 3,040,730.
Hutt, Philip. 3,015,876.
Ingold, John H., and Fry. 3,037,942.
Inman, George E. 3,047,763.
Jacobs, Ivan M. 3,069,339.
Janos, Alfred G., Solley, and Robbie. 3,034,313.
Jasionowski, Joseph J. 3,016,444.
Jencks, Charles L. 3,046,371.
Jencks, Charles L. 3,061,702.
Jencks, Charles L., and Murphy. 3,053,954.
Jennings, Gresham N. 3,066,520.
Jewell, Richard G. 3,033,318.
Johnson, Charles W. 3,015,730.
Johnson, Frithiof V., and Lemmerman. 3,060,752.
Johnson, George L. 3,047,734.
Johnson, Robert H. 3 030,173.
Johnson, Robert H. 3 035,439.
Johnson, Peter D. 3,054,013.
Johnston, Frank C., and Krauss. 3,023,032.
Johnston, Frank C., and Krauss. 3,034,753.
Johnston, Frank C., and Krauss. 3,042,889.
Jones, Gary D. 3,048,020.
Jones, Gary D. 3,050,948.
Jones, Gary D. 3,064,064.
Jones, Jack D., and Kettlety. 3,036,765.
Kallin, Ingmar N. 3,053,343.
Kamide, Harris P. 3,050,611.
Kane, John F. 3,058,074.
Kantor, Simon W., and Holub. 3,036,990.
Kantor, Simon W., and Holub. 3,036,991.
Kaufman, Melvin R. 3,048,463.
Kautz, William H. 3,032,746.
Keane, John J., and Kitson. 3,043,903.
Kearns, William J. 3,041,492.
Keeling, Kermit B., Sr. 3,018,508.
Keeling, Kermit B., Sr. 3,032,004.
Kelling, Leroy U. C. 3,035,344.
Kelley, Fred W., Jr. 3,060,369.
Kemeny, Julius. 3,046,933.
Kemeny, Julius. 3,054,379.
Kemeny, Julius. 3,068,834.
Kemnitz, Warren N. 3,048,876.
Kemnitz, Warren N. 3,048,961.
Kendt, Norman L., and Corl. 3,032,291.
Kent, Harry J. 3,070,284.
Kettler, Clarence J., Elliott, and Schoendube. 3,054,943.
Kierspe, Raymond L., and Stokke. 3,062,939.
Kious, Gerald A. 3,017,508.
Kirk, Norman. 3,021,264.
Kizaur, Arthur J., and Labus. 3,037,119.
Kizaur, Arthur J., Mueller, and Skrobish. 3,069,544.
Klapproth, John F. 3,028,121.
Klapproth, John F. 3,035,791.
Klapproth, John F. 3,054,792.
Klint, Robert V. 3,031,771.
Klint, Robert V., and Owens. 3,051,535.
Koch, Arthur R. 3,022,476.
Kochan, John A. 3,034,641.
Kolda, Frank V., and Briehl. 3,046,634.
Kolda, Frank V., and Sindy. 3,032,948.
Koller, Lewis R., and Coghill. 3,016,307.
Korte, Richard M., and Schneider. 3,050,602.
Krabacher, Roy A., Waters, and Kamps. 3,056,261.
Kranz, Peter. 3,041,978.
Krause, Lloyd O., and Fisk. 3,066,295.
Krauss, Donald M. 3,040,274.
Krauss, Paul, and Johnston. 3,031,521.
Kuckro, Gerald W. 3,061,594.
Kuebrich, Herbert P., and Stone. 3,068,337.
Kurowski, Victor J. 3,031,768.
Kurowski, Victor J. 3 040 441.
Kutney, John T. 3,053,340.
Labastie, Albert H., Wester, and Blowers. 3,049,882.
Lafferty, James M. 3,016,436.
Lafuze, David L. 3,045,174.
Lamp, Arthur W., and Meckstroth. 3,047,166.
La Pierre, Cramer W., Cochran, Janssen, Powell, and Samsel. 3,067,281.
Larew, John J., and McDowell. 3,070,227.
Lavin, Herbert P. 3,040,127.
Lawrence, Thomas F., and Ingleson. 3,016,227.
Lawson, Gustaf R. 3,040,148.
Lee, Thomas H. 3,038,980.
Leeds, Laurence M. 3,029,399.
Leichter, Robert J. 3,033,992.
Lemmers, Eugene. 3 069,581.
Levins, Dave B. 3,036,462.
Levins, Dave B. 3,056,292.
Levinstein, Moses A. 3,041,040.

General Electric Co.: *See*—Continued
Levinthal, Jay G. 3,015,779.
Lewis, Ernest E., and Caldwell. 3,034,034.
Libby, Henry T. 3,036,201.
Lichtenfels, Ira W. 3,034,031.
Lichtenfels, Ira W., and Moon. 3,068,390.
Lien, Gunder, Jr. 3,016,445.
Lit, Harry B., and Dunton. 3,018,199.
Litynski, Raymond S., and Marx. 3,046,465.
Livingston, Orrin W. 3,051,880.
Loft, Arne. 3,038,306.
Long, James. 3,054,937.
Long, James, and Miller. 3,032,698.
Lord, Harold W. 3,032,682.
Louden, William C., and Schmidt. 3,054,922.
Love, Robert W., and Baranovic. 3,066,507.
Low, Frank D. 3,021,863.
Lowry, Hugh R. 3,047,789.
Lukes, Robert M. 3,020,253.
Lutz, John A., and Vidoni. 3,016,654.
Lynch, Donald W. 3,034,223.
Macemon, Herbert J. 3,050,866.
Mack Donald R. 3,060,743.
Magester, Earl H. 3,051,455.
Maglio, Robert A., and Poole. 3,056,663.
Malerich, Jerome B., and Wilde. 3,027,254.
Manke, Arthur G., and Rhodes. 3,035,171.
Manteuffel, Erich W. 3,015,739.
Manteuffel, Erich W. 3,029,376.
Manteuffel, Erich W. 3,037,160.
Marble, Chester B. 3,043,038.
Marks, Louis W. 3,059,151.
Marsden, James. 3,020,299.
Marsh, Myrle O., and Meeker. 3,037,177.
Marshall, Wilfred J., and Horvay. 3,041,669.
Martin, Raymond S. 3,025,440.
Martiniak, Leonard J. 3,064,665.
Martyny, William C. 3,047 512.
Marx, Michael F. 3,015,458.
Mason, Russell I. 3,021,448.
Mateski, Anton. 3,028 733.
Mayer, Charles B. 3,050,656.
McCoy, Robert E. 3,066,285.
McGurty, James A., and Collins. 3,015,559.
McGurty, James A., and Collins. 3,017,265.
McGurty, James A., and Collins. 3,027,252.
McLean, Howard J. 3 035,652.
McQuade, James M. 3,054,732.
Meacham, John W. 3,015,795.
Meckstroth, Carl R. 3,047,164.
Merritt, Will D., Jr. 3,065,253.
Metz, Edwin J. 3,058,206.
Milford, Richard E. 3,020,486.
Miller, Alexander A. 3,046,207.
Miller, Meritt L., and Wright. 3,052,117.
Miller, William R. 3,046,464.
Millis, Walter T. 3,048,776.
Minneci, Salvatore. 3,030,551.
Mittermaier, Armin F. 3,023 493.
Mittermaier, Armin F. 3,028,567.
Mobley, Paul R., and Blackham. 3,053,652.
Modic, Frank J. 3,017,384.
Modic, Frank J., and Sillin. 3,044 980.
Mohler, Donald, and Ritter. 3,065,389.
Morey, Everett D. 3,018,560.
Morey, Everett D. 3,029,623.
Morey, Everett D. 3,050 865.
Morgan, John M., and Kobeck. 3,045,093.
Morgan, Raymond E. 3,019,355.
Morgan, Raymond E. 3 022,429.
Morris, George E., and Wadsworth. 3,058,090.
Morris, Herbert E. 3,031 549.
Morrissey, William J. 3,022,179.
Morrissey, William J., and Roy. 3,022,180.
Morrissey, William M., Jr. 3,029,953.
Mouat, Robert W. 3,047,829.
Mueller, Robert J. 3,028 632.
Mulvaney, Henry F. 3,052,942.
Myers, Richard T. 3,042,885.
Nash, Dudley O. 3,024,601.
Nash, Dudley O. 3,024,605.
Neale, Junius B. 3,048,313.
Neelands, Lewis J., and Woods. 3,035,231.
Neitzel, Robert E. 3,032 977.
Newell, James K., Jr. 3,017,488.
Ney, Robert J. 3,038,094.
Nielsen, William A. 3,051,160.
Nolte, Henry J. 3,039,892.
Nordell, Eugene C. 3,042,915.
Oakes, Philip N., and Wilkes. 3,021,461.
Ogle, Hugh M. 3,016,486.
O'Neill, William C. 3,060,683.
Orbom, Orville E., Murtland, and Schoenf. 3,015,974.
Oxx, Gordon D., Jr., and Coffin, Jr. 3,069,288.
Pan, Paul M. 3,015,823.
Pan, Paul M. 3,019,438.
Pan, Paul M., and Mayer. 3,066,294.
Parker, Frederick A. 3,067,560.
Paulson, Elmir E., and Smile. 3,035,759.
Paynter, Donald A. 3,067,378.
Pell, Erik M. 3,016,313.
Perkins, Donald W. 3,034,074
General Electric Co.: *See*—Continued
Peters, Philip H., Jr., and Wilbur. 3,041,481.
Petersen, Alfred H. 3,033,427.
Petersen, Alfred H. 3,050,966.
Petersen, Maurice E., and Broderick. 3,043,969.
Phillips, Virgel E. 3,028,466.
Pietsch, Joseph A. 3,016,715.
Pietsch, Joseph A. 3,019,609.
Pietsch, Joseph A. 3,022,360.
Pietsch, Joseph A. 3,040,501.
Pinder, James M. 3,029,525.
Pinder, James M. 3,050,975.
Pirtle, John C., and Hampton. 3,042,349.
Piscitelli, Vincent. 3,037,825.
Pistey, John M. 3,060,399.
Pistey, John M. 3,060,400.
Plump, Ralph E., and Devins. 3,048,648.
Polinko, George, Jr. 3,048,681.
Porowski, Casimer P. 3,035,411.
Potter, Ralph M., and Aven. 3,017,366.
Prather, Marvin E. 3,051,818.
Price, Fraser P. 3,033,734.
Pritchard, Peter E. 3,015,703.
Pritchard, Peter E. 3,047,477.
Pritchard, Peter E. 3,062,925.
Prober, Maurice. 3,069,378.
Proctor, Edward K., Jr. 3,049,679.
Pry, Robert H. 3,061,737.
Pulaski, John W. 3,034,016.
Putz, John L. 3,054,017.
Quirk, Douglas W. 3,026,393.
Quirk, Douglas W. 3,026,398.
Raber, Robert A., Jr. 3,046 419.
Rabins, Leonard. 3,054,974.
Rankin, Andrew W., and Eberle. 3,021,110.
Rascati, Salvatore A. 3,021,499.
Redden, Thomas K. 3,034,934.
Reihman, Earl F. 3,061,693.
Reihman, Earl F., and Cressman. 3,040,151.
Relling, Gilbert H., and Lafferty. 3,049,639.
Reimers, Eberhart. 3,025,431.
Reiter, George R. 3,055,555.
Reynolds, Myron B. 3,043,761.
Rhodes, John E. 3,026,699.
Rhoades, John M., and Rogers. 3,035,216.
Rhodes, Junior L. 3,046,761.
Richardson, Charles D., and Jasniewski. 3,050,787.
Robbie, Kenneth A. 3,050,957.
Roberts, John A. 3,065,411.
Roberts, Shepard. 3,055,081.
Rogers, Robert E. 3,020,456.
Rogers, William J. 3,032,990.
Romano, Frank A., Jr. 3,062,982.
Rosenberg, Joseph. 3,038,831.
Rosenberry, George M., Jr. 3,027,474.
Rosenblatt, Murray. 3,024,405.
Rowan, Hartley W., and Loughlin. 3,033,242.
Rowe, Brian H. 3,033,492.
Rowe, Brian H. 3,038,683.
Rowe, Brian H. 3,042,364.
Rowe, Brian H., and MacKay. 3,056,582.
Rowe, Raymond N. 3,018,320.
Rudolph, George. 3,031,601.
Russell, Henry O. 3,024,969.
Russell, Joseph A., and Carlson. 3,060,054.
Russell, Virginia A. 3,049,431.
St. Pierre, Philippe D. S., and Gatti. 3,026,177.
Sampson, Ernest S. 3,023,991.
Sand, Robert E. 3,021,414.
Sand, Robert E. 3,024,346.
Sasnett, Russell M. 3,031,772.
Sasnett, Russell M. 3,050,864.
Savage, Robert H., and Guarnier. 3,042,822.
Saville, John E. 3,049,979.
Scheldorf, Owen H. 3,050,832.
Scheldorf, Owen H. 3,055,390.
Scheper, George W., Jr. 3,030,071.
Scheper, George W., Jr. 3,043,561.
Scheper, George W., Jr. 3,055,912.
Schilling, Edmund F. 3,017,531.
Schlosser, Russell K., Jr. 3,036,666.
Schlosser, Russell K., Jr., and Cohn. 3,036,375.
Schmidt, Gustav A. 3,038,000.
Schmitt, Heinz E. 3,060,579.
Schneider, Harold N. 3,028,465.
Schubert, Albert E., and Herrick. 3,019,614.
Schultz, Frederick E. 3,065,596.
Schultz, Frederick E. 3,065,598.
Schultz, Harry E. 3 034,015.
Schultz, Warner W. 3,025,400.
Schulz, Albert E. 3,034,772.
Schwartz, Donald L. 3 051 566.
Sciscione, Philip. 3,047,685.
Scott, Benjamin B. 3 060,056.
Scott, George A. 3,050,048.
Seaward, Carl R. 3,034,971.
Seigle, William R. 3,022,501.
Seiler, Charles J. 3,024,156.
Settle, Joseph F. 3,021,049.
Shelton, Winston L. 3,039,286.
Shelton, Winston L., Wilson, and Evjen. 3,039,284.
Sherman, George R. 3,018,509.

General Electric Co.: *See*—Continued
Sherman, George R. 3,040,733.
Shickel, James B. 3,045,143.
Silva, Paul F. 3,065,254.
Silva, Paul F., and Holdstock. 3,067,230.
Simon, James P. 3,061,243.
Simpson, Verne G. 3,017,378.
Sisulak, Michael S. 3,028,740.
Skala, George F. 3,019,692.
Skeats, Wilfred F. 3,015,743.
Smee, Peter G. 3,020,420.
Smith, Bernard J. 3,027,500.
Smith, Chester A. 3,062,978.
Smith, Eugene M. 3,064,163.
Smith, Robert M. 3,032,799.
Smith, Sidney R., Jr 3,035,209.
Smith, William H., and Grenoble. 3,032,386.
Snow, Arnold E. 3,055,995.
Soileau, Trasimond A., Jr. 3,022,440.
Solley, Douglas A., Jr., and Robbie. 3,050,955.
Spicer, Hugh C., and Hammond. 3,041,126.
Spiegelhalter, William G. 3,021,696.
Sprung, Murray M., and Guenther. 3,017,385.
Stabler, Edward P. 3,050,715.
Stalker, Kenneth W., and Stadthaus. 3,035,463.
Stanger, Walter E. 3,019,036.
Stanger, Walter E. 3,053,357.
Stargardter, Hans. 3,044,746.
Stelli, Daniel E. 3,051,313.
Sternlicht, Beno. 3,037,457.
Sternlicht, Beno. 3,046,068.
Stevens, Clarence M. 3,043,971.
Stewart, Vincent N. 3,023,292.
Stewart, Vincent N. 3,031,552.
Stollman, Paul D. 3,039,075.
Stover, Edward R., and Williams. 3,040,580.
Strain, Robert C. 3,023,791.
Stratton, Jerry L. 3,034,023.
Stratton, William G., and Weis. 3,028,660.
Streater, August L. 3,065,317.
Strong, Herbert M. 3,030,561.
Strong, Herbert M. 3,030,662.
Summerbayes, Harry R., Jr., and Sampson. 3,021,385.
Summers, Erwin R. 3,062,598.
Suran, Jerome J. 3,026,485.
Swank, Roland F., and Croner. 3,056,580.
Swenson, Alfred G., and Foster. 3,041,757.
Swerdlow, Nathan. 3,036,148.
Swisher, Thomas H. 3,059,089.
Terez, Clarence S. 3,046,635.
Terpenning, Carl H., Jr. 3,025,145.
Terry, Paul V. 3,034,056.
Thompson, Paige W., and Tupper. 3,020,105.
Thompson, Robert E., and Allison. 3,015,630.
Tiemann, Jerome J. 3,054,071.
Tillson, Robert S. 3,041,432.
Titus, Charles H. 3,033,964.
Toensing, Clarence H. 3,066,407.
Tognella, Ugo R. 3,050,079.
Toma, Daniel N. 3,062,032.
Toma, John W. 3,055,203.
Tragert, William E. 3,034,200.
Tragert, William E. 3,050,267.
Treanor, Edward D. 3,025,483.
Truman, John C., and Newton. 3,041,836.
Tuft, Roy E. 3,037,741.
Tupper, Myron D. 3,024,377.
Tupper, Myron D. 3,038,765.
Turton, Cecil B. 3,028,460.
Usher, Ralph E., Conway, and Goodness. 3,045,095.
Van Bennekom, Carl F., and De Lamoureaux. 3,034,058.
Vanden Boom, Robert F., and Anderson. 3,016,727.
Vanden Boom, Robert F., and Jakubs. 3,064,457.
Van der Grinten, Willem J., and Fischer-Colbrie. 3,070,-644
Van Hoven, Gerard C. 3,062,983.
Van Nest, Francis H., and Fusner. 3,043,562.
Varadi, Louis E., Bourque, and Pesarek. 3,056,583.
Vaughan, James R. M. 3,059,142.
Vdoviak, John W. 3,032,991.
Veras, Democritos J. 3,048,682.
Verbinski, Victor V. 3,025,399.
Vichill, Ralph J. 3,047,765.
Viennau, Jacob J., and Beardsley. 3,034,203.
Vize, James F. 3,042,807.
Vize, James F. 3,066,223.
Vodicka, Vincent, and Malinowski. 3,067,352.
Von Hoorn, Fred G. 3,032,740.
Vose, Fred C., and Kamiski. 3,054,851.
Wagner, Ernest A. 3,033,100.
Wagner, James B., and Straney. 3,064,435.
Walch, Kurt R. 3,024,301.
Walker, Roger E. 3,034,624.
Walter, John L., and Fiedler. 3,034,935.
Wareham, William W. 3,028,265.
Warhus, John D. 3,064,664.
Waters, Everett W. 3,038,309.
Watrous, Donald L. 3,044,349.
Watters, Robert L. 3,042,874.
Wawrousek, Hans W., and Neurath. 3,065,118.
Weeks, Walter R. 3,027,444.
Weeks, Walter R. 3,049,606.

General Electric Co.: *See*—Continued
Weinstein, Myron. 3,020,445.
Weliman, Carl E., Jr. 3,019,398.
Werts, Everett W. 3,042,900.
Wesolowski, Adolph J. 3,015,744.
Wesolowski, Adolph J. 3,048,725.
West, Robert A. 3,025,441.
Wheeler, Charles M., and Folger. 3,020,427.
Wheeler, Floyd C., and Finch. 3,061,704.
Whistler, William T. 3,048,799.
White, John E. 3,029,359.
White, William C. 3,039,025.
Wilbur, Donald A., and Peters. 3,039,019.
Wiley, Emmett H., and Fridrich. 3,025,424.
Wilhelmson, Donald A. 3,032,665.
Wilk, Edmund J. 3,027,628.
Wilk, Stanley H. 3,034,796.
Wilkerson, Robert B. 3,022,401.
Williams, Milton S., Jr., and Scott. 3,022,409.
Willis, Warren L. 3,060,252.
Wilyoung, David M., and Gibbs. 3,056,055.
Wilson, Volney C. 3,061,738.
Wilson, Walter R. 3,035,112.
Windsor, Harold F. 3,017,288.
Wolff, George M. 3,052,774.
Wolke, Richard W., and Kubler. 3,026,463.
Wood, Charles D., and Briggs. 3,036,457.
Woodall, Edward L., Jr., and Reinker. 3,047,410.
Woodruff, Truman O. 3,054,065.
Worcester, Joseph A. 3,064,202.
Wormuth, Wilbur J. Re. 25,141.
Worsham, James E., and Gilliom. 3,068,644.
Wright, John H. 3,037,933.
Zagorski, Wladyslaw S. 3,038,041.
Zarbock, Donald T. 3,017,451.
Zebroski, Edwin L. 3,070,532.
Zelina, William B. 3,018,966.
Zelina, William B. 3,036,241.
Zeman, Kenneth P. 3,023,149.
Zimmer, John S. 3,057,047.
Zrodowski, Joseph J. 3,045,066.
Zunick, Michael J., and Mahn. 3,034,009.

General Electric Co, Ltd., The: *See*—
Anderson, Sidney T. 3,043,999.
Bayliss, Alan J., Gardner, and Tomlinson. 3,030,513.
Boswell, David, and Miller. 3,065,390.
Boyland, Donald A., and Brightwell. 3,026,214.
Bryer, Robert P., and Chadney. 3,038,998.
Bury, Harry. 3,024,616.
Bury, Harry, Claydon, and Smith. 3,018,631.
Butson, Peter C. 3,044,067.
Davidson, Hugh W., and Ryde. 3,070,525.
Dutt, Trevor L. 3,069,634.
Gardiner, Herbert W. B. 3,033,346.
Gill, Ronald I. 3,016,081.
Goldsmid, Hiroshi J., and Sheard. 3,017,446.
Griffith, George W. S. 3,035,169.
Hadley, John. 3,039,054.
Harling, Denis W. 3,058,012.
Harling, Denis W., and Hine. 3,057,954.
Ingram, Derek G. W. 3,047,678.
Jolly, Christopher M. 3,039,015.
Lamming, Jack S. 3,029,170.
Mitchell, John M. 3,055,634.
Nixon, Ralph D. 3,026,418.
Patterson, Kenneth G. 3,044,026.
Phylip-Jones, Gwilym. 3,026,422.
Riddiford, Reginald L., and Salisbury. 3,017,082.
Scott, Peter, and Stonehouse. 3,015,472.
Sherwen, Joseph W. 3,063,546.
Smith, Roy J. 3,055,820.
Stenning, Luis C. 3,019,436.
Tomlinson, Terence B. 3,026,417.
Walker, Peter M. 3,064,898.
Walsh, Arthur S., and Witting. 3,058,071.
Ward, Peter W. 3,029,311.
Williams, Michael. 3,058,099.
Wright, Ronald E. 3,066,286.

General Electronic Laboratories, Inc.: *See*—
Billig, Lewis S., and Newman. 3,038,119.
Kaidan, David. 3,062,991.
Parisi, Frank E. 3,034,118.
Perkins, Kenneth G. 3,020,403.
Schwarzlander, Harry. 3,064,192.

General Fire Extinguisher Corp.: *See*—
Huthsing, Charles K., Sr., and Preston. 3,048,194.
Preston, Don F. 3,042,378.

General Fire Extinguisher Co. of Pennsylvania, The: *See*—
Huthsing, Charles K., Sr. 3,028,918.

General Fireproofing Co., The: *See*—
Hird, Clarence W. 3,031,246.
Wilmer, Rudolph H. 3,043,643.

General Foods Corp.: *See*—
Bogyo, Stephen W., Rikert, and Winter. 3,044,880.
Burgess, Hovey M. 3,024,112.
Carey, Ross J. 3,067,064.
Clinton, William P., Perry, and Pitchon. 3,039,882.
Clinton, William P., and Pitchon. 3,021,218.
Colten, Frank P., and O'Neil. 3,056,677.
Common, James L. 3,023,106.
Couch, Robert D. and Yezek. 3,015,596.
Couch, Robert de S., and Yezek. 3,049,429.

General Foods Corp. : *See*—Continued
Finucane, Thomas P., Mitchell, and Raymond. Re. 25,231.
Glicksman, Martin. 3,060,032.
Lister, Bruce A., and Pintauro. 3,041,179.
Lorant, George J. 3,058,831.
Lowry, John R. 3,034,874.
Lowry, John R. 3,046,210.
Lowry, John R. 3,046,270.
Mancuso, John J., and Raymond. 3,060,038.
Pintauro, Nicholas D., and Hall. 3,067,036.
Raffensperger, Stanley P., and Takashima. 3,016,299.
Raffensperger, Stanley P., and Takashima. 3,016,300.
Rogers, William I., and Whaley. 3,061,444.
Rusoff, Irving I., Ohan, and Long. 3,047,395.
Stagmeier, Arthur F. 3,021,224.
Stagmeier, Arthur F. 3,023,110.
Szczesniak, Alina S. 3,043,700.
Touart, Robert L. 3,058,586.
Vollink, Willard L. 3,062,657.
Yermakoff, Edward A., Elsesser, and Lee. 3,061,169.
General Gas Light Co. : *See*—
Humphrey, Alfred H. 3,015,355.
Humphrey, Alfred H., and Loveless. 3,042,072.
Humphrey, Robert P. 3,019,772.
Humphrey, Robert P. 3,040,665.
General Implement Corp. : *See*—
Johnson, Harold D. and R. W. 3,055,144.
General Instrument Corp. : *See*—
Morrison, Guy E., and Williams. 3,045,795.
Mukai, Victor S. 3,040,255.
General Industries Co., The : *See*—
Tamm, Emil S. 3,021,443.
General Instrument Corp. : *See*—
Hagen, Glenn E. 3,017,074.
General Laboratory Associates, Inc. : *See*—
McNulty, John V., and Wright. 3,045,148.
General Linen Supply & Laundry Co., Inc. : *See*—
Bouza, Anthony. 3,039,808.
General Metals Corp., Allegheny Ludlum Products Division : *See*—
Hart, Charles H. 3,063,378.
Keaton, Bobby L. 3,061,253.
General Metals Corp. : *See*—
Towne, Claude M. 3,022,586.
Towne, Claude M., and Brady. 3,025,619.
General Mills, Inc. : *See*—
Andersen, Donald L. 3,069,225.
Andersen, Donald L., and Thielen. 3,019,196.
Beaverson, Lowell D. 3,016,781.
Berglund, Lawrence W., Capener, and Harrison. 3,041,-208.
Brastad, William A., Diekhoff, and Rustad. 3,021,953.
Chang, Robert W. H. 3,036,879.
Converse, John O. 3,017,126.
Converse, John O. 3,027,100.
Drobnick, James L., and Lewis. 3,052,516.
Elden, Leo W., Rustad, and Smirnov. 3,022,616.
Figenshau, James K., and Hainer. 3,053,948.
Floyd, Don E., and Glaser. 3,037,871.
Fulmer, Richard W. 3,035,000.
Grapp, Stanley A. 3,065,896.
Grapp, Stanley A. 3,065,897.
Guderian, Walter L., Kanda, Schulz, and Spender. 3,035,229.
Heinrich, Helmut G. 3,056,568.
Jordan, Wesley A., and Sovia. 3,041,187.
Keen, James L., and Opie. 3,032,198.
Kuramoto, Simpey. 3,055,772.
Linnell, Clark. 3,064,801.
Mayer, Ludwig J. 3,047,719.
Mayer, Ludwig J., Rickett, and Stenemann. 3,063,866.
Melton, Donald F. 3,043,444.
Melton, Donald F. 3,043,448.
Melton, Donald F., and James. 3,033,059.
Moen, Rolf. 3,018,662.
Moore, Charles B., Amundson, and Dick. 3,064,902.
Mueller, Rolf K. 3,038,079.
Nordgren, Robert. 3,028,415.
Paluka, Charles F. 3,038,970.
Powell, Keith R. 3,021,952.
Reilly, Albert F. 3,050,414.
Rogier, Edgar R. 3,062,773.
Rose, Glenn R. 3,042,171.
Rose, Glenn R. 3,047,467.
Rustad, Stanley C. 3,037,467.
Schmidt, Fred W. 3,055,717.
Sovia, Cedric C., and Papp. 3,021,079.
Sovia, Cedric C., and Papp. 3,063,600.
Sullivan, Robert J. 3,066,805.
Szasz, Nandor. 3,027,101.
Wehner, Gottfried. 3,021,271.
Wheeler, Donald H., and Rogier. 3,016,359.
Winker, James A. 3,063,598.
General Motors Corp. : *See*—
Abramson, Franz W., and Gilson. 3,019,847.
Abresch, Carel F., and Mercer. 3,044,842.
Adams, Daniel M., and Morphew. 3,056,620.
Addie, Albert N. 3,048,452.
Addie, Albert N., and Dilworth. 3,045,420.
Addie, Albert N., and Ephraim. 3,045,419.
Addie, Albert N., and Kotlin. 3,043,092.
Adloff, Jakob A., Haertel, and Riehl. 3,053,366.
Albinson, Harold H., and Voss. 3,019,671.
General Motors Corp. : *See*—Continued
Alexander, Donald F., and Harrold. 3,017,030.
Alexander, William O., and Irwin. 3,032,985.
Allen, Robert C., Jr. 3,036,193.
Allured, Robert B., and Weiss. 3,047,767.
Alsobrooks, Darriel L., and Wrigley. 3,061,048.
Altson, Ralph. 3,038,766.
Andrew, Margaret J. 3,021,700.
Andrew, Margaret J. 3,040,901.
Arkus-Duntov, Zora. 3,068,979.
Arlauskas, Alfonsas, and Lohr. 3,069,152.
Armbrust, Joseph C. 3,053,399.
Armentrout, Everett C. 3,029,610.
Armentrout, Everett C. 3,043,569.
Arnold, Everett B., Jr. 3,050,332.
Atkinson, Robert P., and Hoeltje. 3,041,832.
Attwood, William S. 3,045,787.
Aurand, La Vern M., and Schwyn. 3,042,474.
Axtmann, Harold G. 3,034,802.
Axtmann, Harold G. 3,037,762.
Bacheldor, Robert W. 3,070,437.
Bale, Maurice E., Jr., and Guetersloh. 3,027,884.
Balmer, Richard C. 3,034,491.
Ball, Frank W. 3,033,302.
Barbulesco, Daniel J., McCormick, and Spires. 3,018,-649.
Barcus, Edward L. 3,046,840.
Barcus, Edward L., and Slone. 3,027,807.
Barkley, C. Glen, and Rucker. 3,067,635.
Barnhizer, Harold K., and Williams. 3,020,394.
Barrelle, Roland J., and Hayes. 3,048,015.
Barton, Edward D., and Laviana. 3,065,314.
Barton, James F., Jr., and Bickel. 3,022,883.
Bates, Charles E. 3,017,546.
Bauman, Robert H. 3,033,173.
Bauman, Robert H. 3,034,602.
Bauman, Robert H. 3,034,603.
Bayer, Robert J., Cole, and Stoughton. 3,016,689.
Beck, Ronald D., and Kevelin. 3,047,451.
Beecher, John D. 3,051,330.
Bell, Gregory E., Campbell, and Fox. 3,037,391.
Bernard, James A. 3,038,354.
Bernard, James A. 3,044,594.
Berninger, Kenneth L. 3,017,029.
Bernotas, Ralph J. 3,045,843.
Nernotas, Ralph J. 3,058,792.
Bertsche, Ralph H., Jr., and Pattison. 3,060,310.
Bevers, Eugene J., and Wente. 3,048,013.
Bidwell, Joseph B. 3,018,041.
Bidwell, Joseph B., and Cataldo. 3,022,850.
Biondo, Frank P. 3,020,976.
Bishop, Ralph W., Wentworth, and Withrow. 3,050,376.
Black, Robert L., and Thorson. 3,041,891.
Blackburn, Alan B. 3,037,559.
Blackburn, Alan B. 3,063,503.
Blackburn, Alan B. 3,068,393.
Blales, Herbert O., Jr., and Froberger. 3,057,026.
Blinder, William. 3,031,052.
Bliss, Carl M. 3,025,714.
Bliss, Carl M. 3,067,500.
Bly, Kenneth B., Taylor, and Thomas. 3,042,452.
Bockemuehl, Robert R. 3,041,984.
Bockemuehl, Robert R. 3,058,059.
Bockemuehl, Robert R., and Gioia. 3,067,610.
Bockemuehl, Robert R., and Moffat. 3,030,575.
Boegehold, Alfred L. 3,038,563.
Bogater, John P. 3,019,473.
Bohnhoff, Arthur F. 3,054,386.
Bohnhoff, Arthur F. 3,056,357.
Bolston, Leonard. 3,031,528.
Bolston, Leonard, Bozymowski, and Colten. 3,054,048.
Bonfiglio, Charles P. 3,041,093.
Borman, August H., Jr., Cheek, Scheiter, and Herndon. 3,048,055.
Bowers, Roy L., and Noponen. 3,067,880.
Boyce, Harlan R., Fleck, and Fournier. 3,039,557.
Brandt, Howard C. Re. 25,255.
Braun, Adolph F. 3,022,840.
Braunagel, Mangus V. 3,053,091.
Braunagel, Magnus V., and Dilley. 3,049,881.
Bremer, Robert D. 3,045,101.
Bremer, Robert D., and Pearce. 3,069,526.
Bremer, Robert D., and Sacksteder. 3,068,340.
Bremer, Robert D., and Vanmorsdall. 3,040,161.
Brennan, John B., and Force. 3,019,666.
Brennan, John B., and Force. 3,068,715.
Breting, Ulysses A. 3,039,327.
Breting, Ulysses A., and Tuck. 3,033,333.
Brinkerhoff, Donald E. 3,022,420.
Brohl, Earl M. 3,039,485.
Brooks, Frank W. 3,037,487.
Brooks, Frank W. 3,062,011.
Brooks, Frank W. 3,068,842.
Brown, Jack C. 3,069,931.
Brucken, Byron L. 3,043,015.
Brucken, Byron L. 3,049,654.
Brucken, Byron L., and Long. 3,069,697.
Brunner, Richard J. 3,021,827.
Bryant, Leland W. 3,016,696.
Bubniak, William C., Haushalter, Ricketts, Turunen, and Vickers. 3,057,604.
Buchwald, Robert M. 3,064,750.
Buck, Ronald H., Jr. 3,030,206.

General Motors Corp. : *See*—Continued
Buckay, Stanley L. 3,025,877.
Bullock, Norman J., and Statrud. 3,027,741.
Bunch, James I. 3,063,045.
Burch, Lewis D. 3,037,493.
Burkman, Albin J. 3,027,980.
Burrell, Gilbert. 3,052,960.
Burton, Robert W., and Sich. 3,047,345.
Butler, Paul E. 3,064,903.
Campbell, Edgar C., and Timpner. 3,045,458.
Campbell, James F., and Swick. 3,067,576.
Campbell, Paul G. 3,022,661.
Candelise, Alfred. 3,017,872.
Candelise, Alfred. 3,019,777.
Candelise, Alfred. 3,043,281.
Canter, James A. 3,034,314.
Caplant, Isadore, Ruffin, and Van Zile. 3,069,768.
Caramanna, George. 3,025,364.
Carlson, Richard A. 3,037,124.
Carlson, Ronald F., Hockenberger, and McDougal. 3,034,-759.
Carlson, Wilbur L., and Gregg. 3,039,798.
Carnahan, Leonard L., Fry, Pearce, and Evans. 3,049,-114.
Carnahan, Leonard L., Fry, Pearce, and Evans. 3,049,-115.
Carpenter, Arthur J. 3,047,332.
Casassa, Joseph P. 3,029,801.
Castle, William S., and Minnich. 3,056,581.
Caughill, Robert F., and Disinger. 3,018,089.
Caughill, Robert F., and Disinger. 3,033,534.
Challas, William G., Jr., and Harris. 3,053,558.
Chapman, Frederick W., Hanysz, Weller, and Martin. 3,022,451.
Chase, Frederic L., and Ewing. 3,022,205.
Cheetham, Robert A. 3,028,515.
Christen, Eugene W. 3,058,141.
Christenson, Howard W. 3,025,717.
Christenson, Howard W. 3,025,718.
Christenson, Howard W. 3,039,328.
Christenson, Howard W. 3,059,746.
Christenson, Howard W. 3,064,779.
Christenson, Howard W. 3 068,978.
Christenson, Howard W., Fisher, Schaefer, Clark, and Rains. 3,053,116.
Christenson, Howard W., Livezey, and Breting. 3,016,-769.
Cislo, Casimer J. 3,048,193.
Clark, Earl J., and Clements. 3,029,885.
Clason, Bertil H. 3,018,457.
Clements, John A., and Jannis. 3,029,884.
Clevenger, Carl L. 3,027,433.
Clevenger, Carl L. 3,037,096.
Cline, Carl E., and Cook. 3,035,504.
Clingman, Paul E., and Lowe. 3,016,567.
Cobb, Leland D. 3,068,551.
Cochran, Richard C. 3,027,908.
Cockburn, Stanley D., and Leslie. 3,034,818.
Coffin, John P. 3,036,166.
Colautti, Albert J. 3,043,552.
Colby, Gerald W. 3,069,017.
Cole, Dale K., and Kaufold. 3,069,920.
Colten, Robert B., and Johnston. 3,053,080.
Colten, Robert B., Scarpelli, and Wanttaja. 3,059,150.
Conklin, Emmett D., Flanigan, Ricketts, and Turunen. 3,027,717.
Conner, Leo B., Jr. 3,023,361.
Conner, Leo B., Jr. 3,026,476.
Contant, Peter R. 3,025,552.
Cooley, Floyd A. 3,022,108.
Cote, Thomas P., and Nash. 3,069,928.
Counts, William E. 3,053,770.
Covert, Calvin C. 3,026,740.
Crockett, Clarence V. 3,036,869.
Croskey, Frank A. 3,031,145.
Croskey, Frank A., and Rissman. 3,037,703.
Cummings, Frederick W., and Mowers. 3,017,688.
Curtis, Ralph J., and Nixon. 3,042,365.
Dahle, Edwin A. 3,047,099.
Dale, Walter. 3,045,499.
Dale, Walter. 3,051,983.
Daniels, William H. 3,022,107.
Davis, Robert E. 3,033,008.
Dawson, James J., and Watt. 3,031,011.
De Fezzy, Albert, Hanley, Kenyon, and Peak. 3,021,826.
De Fezzy, Albert, and McVicar. 3,023,706.
Deford, Donald E., and Dye. 3,046,759.
Dega, Robert L. 3,022,937.
Dega, Robert L. 3,030,800.
Dega, Robert L. 3,034,043.
Dega, Robert L. 3 047,938.
Dega, Robert L. 3,053,541.
Dega, Robert L. 3,068,016.
De Haan, Wolbert. 3,028,193.
De Lorean, John Z. 3 016,269.
De Lorean, John Z. 3,016,768.
De Lorean, John Z. 3,023,637.
De Lorean, John Z. 3,025,721.
De Lorean, John Z. 3,031,204.
De Lorean, John Z., Shaw, and Short. 3,021,715.
Denil, Norbert J., and Burton. 3,059,499.
Denman, Stephen A., and Bunker. 3,052,217.

General Motors Corp. : *See*—Continued
Dent, Eugene and Moffett. 3,043,103.
Dent, Eugene, and Weiser. 3,037,742.
Desmond, Timothy J. 3,060,018.
De Vincent, Patsy. 3,040,546.
De Vincent, Patsy. 3,060,700.
Dew, Joseph H. 3,022,896.
Diamond, Milton J., Schubring, and Weller. 3,029,943.
Dicker, George L. 3,062,506.
Diederich, Robert F., McCarthy, and Smaga. 3,030,825.
Dietrich, Howard H. 3,017,873.
Dietrich, Howard H. 3,056,420.
Dietrich, Howard H., and Sanders. 3,062,312.
Dilworth, William G. 3,017,229.
Dilworth, William G. 3,053,595.
Dison, James R., Jr. 3,053,590.
Drayer, William L. 3,049,865.
Dunn, Robert G., and Pfaff. 3,059,294.
Dunn, Robert G., and Pfaff. 3,059,297.
Dyer, John W., Short, and Parker. 3,015,835.
Dyer, John W., and Sprague. 3,030,794.
Easterling, James M. 3,031,709.
Eder, Virgil K. 3,069,853.
Edwards, Jack T., and Line. 3,063,031.
Edwards, William R., and Schwartzwalder. 3,052,814.
Egbert, William F., and Spears. 3,046,742.
Egbert, William F., and Spears. 3,062,006.
Eibl, William F., and Greene. 3,034,381.
Elliott, Harold V. 3,041,493.
Elliott, Harold V., Bates, and Johnson. 3,03),459.
Erickson, Anton F. 3,027,975.
Erickson, Anton F. 3,027,981.
Erickson, Anton F. 3,033,183.
Eshbaugh, Jesse E., and McDougal. 3 047,235.
Evans, George J., and Mickle. 3,053,564.
Fales, Douglas I. 3,070,185.
Falge, Robert N. 3,062,951.
Farlee Clarence C. 3 043,608.
Farnell, Samuel J. 3,032,602.
Ferguson, Millard A. 3,034,057.
Fink, Marvin J., and Birk. 3,017,631.
Fischer, Hans. 3,031,166.
Fisher, George A. 3,027,987.
Fisher, George A. 3,039,567.
Fitzpatrick, Paul. 3,070,124.
Flaherty, James H. 3,066,254.
Flatt, James H., and Young. 3,049,602.
Flatt, James H., and Young. 3,049,603.
Flora, Raymond A. 3,055,476.
Flora, Raymond A., Neyhouse, Savage, and Shewmon. 3,060,593.
Fogt, Thomas H. 3,029,624.
Fowler, F. Robert J. 3,019,875.
Fox, Robert M., and Leslie. 3,056,619.
Fox, Robert M., and Ray. 3,019,469.
Fox, Robert M., and Wubbe. 3,025,553.
Francis, Philip L. 3,035,354.
Francis, Philip L. 3,037,765.
Francis, Philip L. 3,048 361.
Francis, Philip L. 3,070,364.
Frei, Arthur J., and Kniffin. 3,039,277.
Friant, James E., McWilliams, and Ransom. 3,017,120.
Friant, James E., McWilliams, and Ransom. 3,059,857.
Fritz, William E. 3,032,670.
Fritz, William E., and Laviana. 3,054,426.
Froberger, Charles F. 3,052,316.
Fry, Millard E. 3,026,192.
Funkhouser, Mearick. 3,041,061.
Gagan, Richard H. 3,060,290.
Galin, Robert. 3,056,542.
Garvey, Louis P. 3,048,873.
Garvey, Louis P., and Leslie. 3,019,848.
Garvey, Louis P., and Leslie. 3,034,826.
Gaubatz, Arthur W. 3,032 982.
Gaugler, Richard S. 3,021,692.
Gaugler, Richard S. 3,040,539.
Gegoux, Roland E., and Schjolin. 3,065,030.
Gelenius, Robert B. 3,022,484.
Gerard, Frank W. 3,044 271.
Geyer, Howard M. 3,029,659.
Geyer, Howard M. 3,036,472.
Geyer, Howard M. 3,036,473.
Geyer, Howard M. 3,044,785.
Geyer, Howard M. 3,049,359.
Gibbs, George L., Jr. 3,018,019.
Gibson, J Lowell. 3,024,638.
Gilliland, Harry J., and Jones. 3,056,558.
Godfrey, John W. 3,053,511.
Goodwin, Richard M. 3,023,064.
Goodwin, Richard M. 3,027,858.
Goodzeit, Carl L., and Pearsall. 3,022,193.
Gould, Richard E. 3,069,887.
Grabowski, Leonard R., and Holthofer. 3,059,494.
Grady, Francis H. 3,025,715.
Graham, Robert W. 3,045,701.
Graham, Robert W. 3,067,908.
Greene, Joseph L. 3,050,410.
Griffen, Thomas J., and Smith. 3,050,028.
Guyton, James H., and Gaskill. 3,057,557.
Hackett, William S. 3,057,182.
Hall, Russell S. 3,018,113.
Hall, William M. 3,019,604.
Hall, William M. 3,039,305.

General Motors Corp. : *See*—Continued
Hanau, Heinz. 3,036,365.
Hanink, Dean K. 3 037,880.
Hanink, Dean K., Shoudy, and Thomson. 3,065,107.
Hanink, Dean K., Shoudy, Thomson, and Mette. 3,033,-705.
Hanink, Dean K., and Webbere. 3,047,381.
Hanley, George P. 3,057,434.
Hanley, George P., and Hulsing. 3 059,835.
Hanley, George P., and Winkel. 3,053,096.
Hanold, Robert J., and Johnston. 3,029,596.
Hansen, Kai H. 3,062,069.
Hansen, Kai H., Schilling, and McRoberts. 3,022,847.
Hanysz, Eugene A. 3,017,518.
Hanysz, Eugene A., and Weller. 3,016,732.
Harada, Henry H. 3,052,775.
Harned, John L., and Marchewitz. 3,033,305.
Harris, Edward P. 3,033.557.
Harris, Edward P. 3,038,217.
Harris, Edward P. 3,059,292.
Harris, Edward P., and Wall. 3,070,427.
Harris, Ernest S., and Beck. 3,056,526.
Harris, James E., and Carson. 3,050,577.
Hart, John G., and Ziegler. 3,056,911.
Hartzell, Herman L., and Young. 3,051,393.
Harvey, Douglas J. 3,027,725.
Harvey, Douglas J. 3,060,013.
Haslup, Robert E. 3,042,471.
Hastings, Franklin G., Mueller, and Preotle. 3,048,902.
Hause, Gilbert K. 3,021,726.
Hause, Gilbert K. 3,029,662.
Hause, Gilbert K. 3,033,335.
Hause, Gilbert K. 3,042,225.
Hause, Gilbert K. 3,042,162.
Hause, Gilbert K. 3,053,361.
Hause, Gilbert K. 3,067,689.
Hause, Gilbert K., and Kelley. 3,062,074.
Hawley, James F. 3,042,346.
Hayes, Charles F. 3,064,425.
Heidorn, John H. 3,047,696.
Heidorn, John H. 3,062,020.
Heidorn, John H. 3,064,447.
Heitzman, Edware J. 3,043,630.
Helgeson, Virgil L., and Looper. 3,070,307.
Heller, Joseph N. 3,033,030.
Helvern, James O. 3,016,112.
Helvern, James O., and Wuellner. 3,068,843.
Henke. Arthur W. 3,069,645.
Herridge, William G., Jr. 3,068,364.
Hetzler, Lewis R. 3,034,019.
Hetzler, Lewis R., and Sheldrake. 3,022,455.
Himka, John, Lauer, and Mackie. 3,034,823.
Himka, John, Probst, Gilson, and Carpenter. 3,024,062.
Hoag, William G., and Lohr. 3,062,527.
Hockert, Chester H. 3,067,740.
Hocutt, Morris G., and McLuen. 3,019,598.
Hoffman, Carl S., and Hulsing. 3,069,926.
Hoffman, Carl S., and Reddy. 3,046,954.
Hollar Arthur W., and Mennone. 3 033,510.
Holzwarth, James C., Hornaday, and Vigor. 3,019,516.
Hopkins, Joseph H. 3,025,491.
Hopkins, Joseph H. 3,037,183.
Hopkins, Joseph H. 3,048,674.
Hopkins, Joseph H., and Van Slyke. 3,021,503.
Hopkins, Joseph H., and Van Slyke. 3,065,448.
Hornaday, James R., Jr., Vigor, Tobin, and Holzwarth. 3,019,513.
Horton, George B., and Lohr. 3,022,975.
Hough, Fred O., and Scott. 3,023,154.
Hough, Fred O., and Scott. 3,065,153.
Hovde, Arne J. 3,056,638.
Huebner, Charles H. 3,050,578.
Huff, John V. 3,031,051.
Hughes, Edgar S. 3,053,097.
Hulten, Richard E. 3,033.118.
Hulten, Richard E., and Miller . 3,049,938.
Hunt, Albert L., Jr. 3,029,351.
Ingolia, Anthony J. 3,059,653.
Jackson, George W. 3,039,760.
Jackson, George W., and Pribonic. 3,060,963.
Jacobs, James W. 3 023 589.
Jacobs, James W. 3,024 963.
Jacobs, James W. 3,026,815.
Jacobs, James W. 3,028,051.
Jacobs, James W. 3,034,519.
Jacobs, James W. 3,037,363.
Jacobs, James W. 3,048,024.
Jacobs, James W. 3,048,133.
Jacobs, James W. 3,051,183.
Jacobs, James W. 3,057,169.
Jacobs, James W. 3,063,459.
Jacobs, James W. 3,064,661.
Jacobs, James W. 3,068,877.
Jacobs, James W. 3,070 714.
Jacobs, James W., and McCormick. 3,070,417.
Jacobs, James W., and Mercer. 3,024,074.
Jacobs, James W., and Simmons. 3,036,442.
Jacoby, Gerald B. 3,041,837.
Jaworowicz, John H. 3,034,330.
Jenkins, Richard L. 3,050,661.
Johnson, Paul T. 3,061,954.
Johnston, William J. 3,030,548.
General Motors Corp. : *See*—Continued
Johnston, William J. 3,030,549.
Johnston, Robert D. 3,059,448.
Johnstone, Theodore H. 3,039,290.
Johnstone, Theodore H., Dully, and Sandor. 3,069,889.
Johnstone, Theodore H., and Liem. 3,020,075.
Jones, Richard A. 3,020,328.
Kast, Howard B. 3,033,172.
Kast, Howard B. 3,067,580.
Kawecki, Henry S. 3,046,844.
Keating, Bernard H. 3,017,217.
Keighley, Lloyd M. 3,025,679.
Kell, Nathaniel B. 3,026,976.
Keller, Robert C. 3,016,758.
Kelley, Oliver K. 3,019,670.
Kelley, Oliver K. 3,025,720.
Kelley, Oliver K. 3,027,763.
Kelley, Oliver K. 3,030,823.
Kelley, Oliver K. 3,033,053.
Kelley, Oliver K. 3,033,058.
Kelley, Oliver K. 3,033,327.
Kelley, Oliver K. 3,037,810.
Kelley, Oliver K. 3,042,155.
Kelley, Oliver K. 3,043,403.
Kelley, Oliver K. 3,053,051.
Kelley, Oliver K. 3,068,976.
Kelley, Oliver K., Rumsay, and King. 3,023,636.
Kelley, Oliver K., and Hause. 3,021,727.
Kelley, Oliver K., and Hause. 3,048,241.
Kelley, Oliver K., and Lindsay. 3,025,719.
Kellogg, George E. 3,033 518.
Kellogg, George E. 3,054,387.
Kellogg, George E., and Kenrick. 3,052,130.
Kellogg, George E., and Kenrick. 3,057,332.
Kellogg, George E., and Kenzik. 3,016,880.
Kenrick, Charles R. 3,038,761.
Kenrick, Charles R., and Kellog. 3,056,543.
Kenzik, William V., and Kelley. 3,050,157.
Kesling, Keith K. 3,038,319.
Kester, Robert C. 3,022,434.
King, Edward J., and Romanzi. 3,020,040.
King, Millard G. 3,069,899.
Kirk, Robert E. 3,024,436.
Kirk, Robert E. 3,045,573.
Kirk, Thomas E. 3,032,697.
Kirk, Thomas E. 3,051,870.
Kirk, Thomas E. 3,069,193.
Kirk, Thomas E., and Falge. 3,046,447.
Kirsten, Gerhard H., and Tesch. 3,027,758.
Kniffin, Walter G. 3,025,682.
Kniffin, Walter G. 3,046,754.
Kniffin, Walter G. 3,059,445.
Knudsen, Allan C. 3,041,867.
Kolbe, Adelbert E. 3,019,781.
Kolbe, Adelbert E. 3,023,844.
Kolbe, Adelbert E. 3,023,845.
Kolbe, Adelbert E. 3,023,846.
Kolbe, Adelbert E. 3,023,847.
Kolbe, Adelbert E. 3,029,597.
Kolbe, Adelbert E. 3,057,435.
Komorowski, Clarence L., and Pessl. 3,059,960.
Koons, Frederick L., and Drum. 3,049,450.
Koplin, Hans O. 3,031,223.
Kosbab, Kenneth A., and Ziegler. 3,063,299.
Koziura, Frank G. 3,067,983.
Krause, Charles T. 3,015,944.
Kreutzer, Arthur, 3,019,603.
Kripke, Joseph B., Rowe, and Brendemuehl. 3,055,993.
Kuhn, Albert J. 3,029,611.
Kuiper, Dan B. 3,019,857.
La Boda, Mitchell A., and Wiese. 3,057,764.
La Boda, Mitchell A., and Wiese. 3,057,765.
Lagstrom, Yngve J. 3,052,443.
Lander, Richard J. 3,055,971.
Larke, Victor W., and Spanski. 3,048,236.
Larsen, Hugh W. 3,037,573.
Larson, Robert L., and Hetzler. 3,022,456.
Larson, Robert L., Hetzler, and Marks. 3,070,704.
Lash, Joseph F., and Trimble. 3,017,773.
Lash, Joseph F., and Trimble. 3,056,300.
Lasley, Harold L. 3,017,974.
Latrelle Charles W. 3,043 326.
Laut, Wilhelm, and Ehrenberg. 3,037,372.
Lautzenhiser, Argyle G. 3,023,284.
Laviana, Donald W. 3,045,091.
Laviana, Donald W., and Fedkew. 3,051,001.
Laviana, Donald W., Fritz, and Cassano. 3,043,922.
Lay, Robert, Paul, and Roy. 3,050,658.
Lee, Charles H. 3,033,602.
Lee, Charles H. 3,062,576.
Leffler, Dean E., and Greenwood. 3,028,173.
Leland, Frank G. 3,039,739.
Leslie, James D. 3,020 392.
Leslie, James D. 3,062,034.
Leslie, James D., and Rehkugler. 3,047,326.
Levy, Irving M., and Leland. 3,045,159.
Lewis, Donald B. 3,052,207.
Liebreich, Oscar P. 3,068,550.
Liem, Robert C., and Sarosy. 3,031,221.
Lindsay, John D. 3,049,937.
Lindsay, John D. 3,049,945.
Lindsay, John D. 3,056,313.

General Motors Corp.: *See*—Continued
Loesch, Ronald E. 3,017,599.
Lohr, Thomas E. 3,023,854.
Lohr, Thomas E. 3,052,497.
Lohr, Thomas E. 3,056,884.
Long, George B. 3,048,985.
Long, George B., and Gaugler. 3,027,653.
Long, George B., and Sloan. 3,049,655.
Long, Paul J., Jr. 3,038,560.
Long, Paul J., Jr. 3,063,701.
Long, Paul J., Jr. 3,063,702.
Lottridge, Neil N., Jr. 3,046,109.
Lottridge, Neil M., Jr., and McCullough. 3,022,163.
Louthan, Chester F. 3,044,303.
Louton, James C., Jr., and Schamel. 3,043,551.
Louton, James C., Jr., and Semar. 3,052,138.
MacNaughton, Lesley A., and Wiedemann. 3,053,304.
Majewski, Alfred E. 3,047,134.
Malloy, John D. 3,033,329.
Manahan, Max J. 3,046,472.
Mann, Leonard J., Armentrout, and O'Connell. 3,027,732.
Mann, Leonard J., and O'Connell. 3,018,637.
Mann, Leonard J., and O'Connell. 3,050,956.
Mann, Leonard J., and O'Connell. 3,050,961.
Mann, Leonard J., and Wurtz. 3,031,859.
Marchant, Joseph R. 3,070,687.
Markey, Francis J. 3,044,664.
Marquis, Donald P., and Wagner. 3,029,617.
Martin, Robert A., and Matkins. 3,026,446.
Marvin, John T. 3,017,114.
Mathues, Thomas O. 3,024,132.
Mathues, Thomas O. 3,054,213.
Mathues, Thomas O., Beck, Davis, and Forward. 3,042,137.
Matter, Robert C., and Landon. 3,035,339.
Matthews, Hugh B. 3,037,735.
May, Richard L., and Ingwersen. 3,037,390.
Mazzarins, Janis. 3,057,090.
McAndrews, Anthony J., and Stumph. 3,052,955.
McCuslin, Donald A. 3,020,101.
McCathron, Claude B., Rowe, and Zeisloft. 3,062,310.
McCormick, Hamilton L. 3,029,485.
McDonnold, Le Roy. 3,045,663.
McDougil, John A., and McMichael. 3,023,905.
McDowall, Charles J., and Welsh. 3,039,738.
McGillem, Clare D., and Seling. 3,028,596.
McKamey, Birch L. 3,068,026.
Mead, Howard C. 3,020,435.
Mead, Howard C., and Onksen. 3,065,340.
Mercer, Robert L. 3,018,802.
Merkle, Ralph H. 3,027,848.
Metz, Jean. 3,021,701.
Mellencamp, Robert E. 3,045,971.
Meyer, Barthold F., and Toruk. 3,033,946.
Meyer, Engelbert A. 3,034,616.
Meyer, Engelbert A. 3,037,595.
Meyer, Engelbert A. 3,069,963.
Mick, Stanley H. 3,023,744.
Mick, Stanley H. 3,053,240.
Mickle, Francis A., and Sprunk. 3,064,984.
Mikkola, John E., and Newman. 3,048,669.
Miller, Andrew J., Nellis, and Waymire. 3,020,661.
Miller, Richard C., and Toton. 3,050,662.
Mitchell, Walter E. 3,023,968.
Mitter, Laurence J., and Whyte. 3,069,785.
Moeller, John D., and Scarff. 3,019,735.
Moore, Victor C. 3,030,124.
Moorman, Earl J. 3,063,250.
Mountjoy, Garrard. 3,018,367.
Mountjoy, Garrard. 3,018,368.
Mountjoy, Garrard. 3,029,890.
Mountjoy, Garrard. 3,045,993.
Mountjoy, Garrard. 3,052,869.
Mountjoy, Garrard, and Reid. 3,068,448.
Moyer, Elton S. 3,045,652.
Muller, Lloyd E. 3,025,716.
Murphy, Joe W. 3,036,633.
Murphy, Joseph E. 3,048,764.
Murphy, Joseph E., and Starzec. 3,040,271.
Murphy, John M., Tucker, and Fogt. 3,016,183.
Needham, Robert L., and Upham. 3,038,093.
Neff, Russell M. 3,069,149.
Neir, Theron E. 3,049,191.
Nemecek, Ralph E., and Walko. 3,064,751.
Neyhouse, George A., Savage, and Shewmon. 3,033,014.
Neyhouse, George A., Savage, and Shewmon. 3,049,021.
Nixon, Cleveland F., and Rowe. 3,024,134.
Norris, James C. 3,046,962.
O'Brien, Charles J., and Waite. 3,048,338.
O'Brien, William J. 3,022,362.
O'Brien, William J. 3,022,669.
O'Connell, John J. 3,026,688.
O'Connell, John J. 3,043,114.
Olley, Maurice. 3,029,801.
Olley, Maurice. 3,047,098.
Olsen, Howard E. 3,033,234.
Onksen, George W. 3,064,378.
Overman, Guy R., and Davis. 3,035,297.
Parr, Max O. 3,057,220.
Parshall, Millis V. 3,059,973.
Pearce, George C., and McDonnold. 3,032,028.

General Motors Corp.: *See*—Continued
Pearce, George C., McDonnold, and Miller. 3,051,817.
Pechenik, Jack. 3,053,239.
Perish, Peter W. 3,033,587.
Percival, Worth H. 3,062,000.
Percival, Worth H. 3,062,510.
Peters, Theodore F. 3,056,553.
Petersen, Ludvig. 3,068,953.
Pichler, Joseph R., and Tuck. 3,049,894.
Pierce, Earl W. 3,017,530.
Pierce, Earl W. 3,053,214.
Pierce, Earl R. 3,070,020.
Playle, Jack R. 3,023,590.
Plummer, Theodore E. 3,037,822.
Polhemus, Von D., and Yew. 3,046,000.
Pollock, Samuel C. 3,058,142.
Poole, Ronald R. 3,057,480.
Popovich, George, and Owen. 3,064,493.
Porter, Herbert C., Terkoski, and Warner. 3,064,147.
Potter, Robert A. 3,070,392.
Powell, Edgar R. 3,049,768.
Prachar, Otakar P. 3,052,095.
Preotle, John J., and Rembold. 3,027,735.
Pribonic, John F. 3,054,425.
Pribonic, John F. 3,059,918.
Pribonic, John F., and Fouts. 3,057,441.
Price, Clifford L. 3,031,026.
Primeau, George H. 3,064,810.
Prior, John R. 3,056,479.
Probst, Delbert C. 3,030,140.
Psik, Robert T. 3,017,659.
Punches, George L. 3,039,786.
Quinn, Clark L. 3,057,575.
Ransom, George P., Schnagen, and Unger. 3,057,545.
Rasmussen, Richard E. 3,033,261.
Raver, Louis J., and Campbell. 3,059,169.
Redick, David C., Cameron, Bertsche, and Yahn. 3,020,771.
Reese, Elmer E. 3,048,430.
Rehkugler, Gerhard. 3,069,888.
Reid, John D. 3,043,952.
Reindl, Harold J. 3,016,719.
Reindl, Harold J. 3,039,890.
Reinke, James J., Gustke, Schultz, and Thompson. 3,033,051.
Renner, Glen R. 3,033,622.
Renner, Glen R., and Rice. 3,017,563.
Reppert, Erwin J. 3,030,027.
Rice, Lyman A. 3,047,693.
Rike, Richard C. 3,035,551.
Rike, Richard C. 3,049,100.
Rippingille, Edward V. 3,045,601.
Rise, William E. 3,016,657.
Rise, William E. 3,042,181.
Robinson, George H., and Ross. 3,022,407.
Roboski, Walter S. 3,018,359.
Rohde, Robert P. 3,057,304.
Rohde, Robert P. 3,070,032.
Rohrbacher, Earl W. 3,064,635.
Roller, Albert E. 3,022,649.
Roller, Albert E. 3,052,425.
Rosenberger, Maurice S. Re. 25,180.
Rosenberger, Maurice S., Winchell, and Schultz. 3,016,119.
Rosenberger, Maurice S., Winchell, and Schultz. 3,063,530.
Rosenkrands, Johannes. 3,020,060.
Rosenkrands, Johannes W. 3,020,061.
Rosenkrands, Johannes. 3,033,586.
Ross, Marvin O. 3,019,629.
Ruhala, Joseph D., and Jones. 3,056,177.
Runci, Joseph O., and Bermotas. 3,017,046.
Rounds, Fred G. 3,053,341.
Ruffle, Larry L., and Schultz. 3,043,607.
Runft, Arthur J. 3,033,043.
Ryck, Francis M. 3,051,516.
Ryck, Francis M. 3,056,990.
Ryck, Francis M., and Schmitz. 3,048,045.
Sampson, Frederick W. 3,062,311.
Sampson, Frederick W. 3,067,493.
Sargent, Ronald J. 3,039,020.
Sauzedde, Rene E. 3,019,871.
Sauzedde, Rene E. 3,055,472.
Sauzedde, Rene E., and Blinder. 3,031,053
Schaefer, Carl F., and Stoia. 3,034,191.
Schauer, George W., Jr. 3,032,636.
Schjolin, Hans O. 3,041,892.
Schjolin, Hans O. 3,047,104.
Schmid, Leonard J., and Scott. 3,021,579.
Schmidt, Lyle L. V. 3,018,650.
Schmitz, Harry W. 3,052,136.
Schmitz, Harry W., and Ziegler. 3,052,492.
Schmitz, William F. 3,046,002.
Schmitz, William F., Griffith, and Long. 3,042,392.
Schubring, Norman W. 3,023,609.
Schubring, Norman W. 3,043,132.
Schultze, Harold E. 3,036,669.
Schultze, Harold E. 3,040,841.
Schultze, Harold E. 3,046,001.
Schunke, Edwin C. 3,053,922.
Schwartzwalder, Karl. 3,057,941.
Schwarz, Bertram A. 3,020,405.
Schwarz, Bertram A. 3,062,552.

General Motors Corp. : *See*—Continued
Scofield, Robert O. Sr., and Wolcott. 3,058,555.
Scott, Robert H. 3,043,358.
Seaver, William B. 3,033,579.
See, Walter E. 3,024,323.
Sergay, Dimitry B. 3,031,180.
Sergay, Dimitry B. 3,046,842.
Sharpe, Verlos G. 3,028,208.
Sharpe, Verlos G. 3,062,346.
Shoudy, Albert A., Jr., and Ross. 3,053,689.
Sigvardsson, Bejron K. G., and Gardner. 3,067,949.
Silvonen, Yro T. 3,058,002.
Simmons, Milton E., and Finsterwalder. 3,049,935.
Simmons, Milton E., Finsterwalder, and Terkoski. 3,021,444.
Simmons, Milton E., Finsterwalder, and Terkoski. 3,045,137.
Simpson, William E., and Stevens. 3,060,479.
Sisson, Kenneth O. 3,060,712.
Smith, Nelson J. 3,055,193.
Smith, Walter W. 3,034,465.
Snyder, Kenneth E. 3,027,776.
Snyder, Kenneth E. 3,046,809.
Snyder, Kenneth E. 3,057,225.
Sobey, Albert J. 3,016,698.
Sobey, Albert J., and Swick. 3,032,980.
Sones, William L., and Burke. 3,059,168.
Spieles, Robert L. 3,052,587.
Spieles, Robert L. 3,057,960.
Sprague, Richard L., and Wigner. 3,047,690.
Stallard, Ralph M. 3,046,179.
Starzec, Francis J., and Murphy. 3,048,718.
Stedfeld, Rowland L. 3,067,928.
Steinbrunner, William J. 3,034,285.
Steinhagen, William K. 3,037,763.
Steinhagen, William K., and Merrell. 3,068,881.
Stephenson, Howard F. 3,061,060.
Stevens, Bryce L. 3,022,405.
Stewart, Jim D. 3,070,350.
Stoltman, Donald D. 3,034,487.
Storer, John E., Jr., and Livezey. 3,027,780.
Stormer, Joseph R., and Jacobs. 3,027,600.
Stultz, Charles S. 3,024,875.
Sullivan, James M. 3,032,346.
Stutrud, Lynn O. 3,033,555.
Summers, Charles L. 3,068,924.
Syrovy, Gerald H. 3,025,672.
Taylor, Garthwood R. 3,037,486.
Thomas, Herman J. 3,064,846.
Thomas, Robert W. 3,045,972.
Thomas, Thomas E. 3,029,909.
Thomas, Thomas G., Taylor, and Embree. 3,018,853.
Thomas, Wendell M. 3,045,446.
Thompson, William B., and Miller. 3,043,276.
Thorman, Richard L., and Roberts. 3,056,501.
Thornburgh, William F. 3,039,254.
Tickner, Raymond G. 3,016,946.
Timpner, Fred F., and Aldikacti. 3,056,312.
Tobin, Leo W., Jr. 3,027,762.
Tomlinson, Jerry G. 3,064,424.
Tranbarger, Glen E., Murray, Young, and Mehagan. 3,051,801.
Trimble, Philip K. 3,048,041.
Tuck, Harvey R., and Miller. 3,034,221.
Tuck, Robert M. 3,043,161.
Tuck, Robert M., and Fackenthal. 3,027,720.
Tuck, Robert M., and Mooney. 3,021,676.
Turlay, Joseph D. 3,045,507.
Unger, Donald C. 3,016,511.
Van Alstyne, Martha J., and Powder. 3,027,216.
Van House, Robert M. 3,052,224.
Van Kerschaver Raymond A. 3,068,969.
Van Scoyk Howard E. 3,061,136.
Van Slooten, Louis J. 3,025,842.
Van Slooten, Louis J. 3,048,156.
Van Slooten, Louis J. 3,070,080.
Varterasian, John H. 3,052,844.
Varterasian, John H. 3,060,370.
Vigor, Charles W. 3,020,055.
Vogel, James E. 3,070,348.
Waag, Harry O., and Davis. 3,018,636.
Walker, Raymond. 3,034,373.
Wall, James R., and Harris. 3,049,730.
Wampler Frank D. 3,043,571.
Watt, William W. 3,058,716.
Webbere, Fred J. 3,045,301.
Webster, William W. 3,022,717.
Weibel, John, Jr., and Mantey. 3,044,682.
Welch, Russell K. 3,070,233.
Welsh, Harvey W. 3,018,085.
Welsh, Harvey W. 3,026,087.
Welsh, Harvey W. 3,033,520.
Welsh, Harvey W. 3,042,367.
Welsh, Harvey W. 3,042,369.
Welsh, Harvey W. 3,042,370.
Welsh, Harvey W. 3,053,505.
Welsh, Harvey W. 3,067,980.
Welsh, Harvey W. 3,069,135.
Welsh, Harvey W. 3,070,352.
Welsh, Harvey W. 3,070,353.
Wendt, Frank S. 3,044,043.
Wente, Robert J. 3,047,317.
Wente, Robert J. 3,056,455.
General Motors Corp. : *See*—Continued
Wentworth, Joseph T. 3,068,847.
Werner, Calvin J. 3,040,536.
Werner, Calvin J. 3,067,840.
Wernig, James H. 3,069,197.
Werth, Albert A. 3,070,388.
Wetterhahn, George H. 3,033,314.
Whaley, John A., and Houser. 3,035,224.
Wheatley, John B. 3,070,131.
Whelan, James E. 3,059,976.
Whistler, Charles C., Jr. 3,018,544.
White, Harlan V. 3,034,298.
Whyte, Ronal H. 3,035,670.
Whyte, Ronald H. 3,044,587.
Whyte, Ronal H., and Brucken. 3,032,887.
Wiley, John B. 3,062,976.
Wilkens, Carl E., and Bauman. 3,016,881.
Wilkens, Carl E., and Keller. 3,050,035.
Williams, Lyle N. 3,052,787.
Willis, William S. 3,045,968.
Willott, Douglas W. 3,041,791.
Wilsted, Harold D., and Gottschalk. 3,053,045.
Winchell, Frank J. 3,033,107.
Winchell, Frank J., and Kelley. 3,019,668.
Winfield, Howard E., Jr. 3,021,688.
Wirt, John R. 3,030,493.
Wishart, James, Jr. 3,028,533.
Wolfram, William S. 3,048,056.
Wolfram, William S. 3,059,493.
Wood, Paul W. 3,034,070.
Wood, William P. 3,052,499.
Wrigley, Clifford C., and Malloy. 3,033,319.
Wrigley, Clifford C., and Malloy. 3,044,578.
Wurtz, Clifford A., and Armentrout. 3,032,636.
Yurgen, William J., Bennett, and Palinchak. 3,054,843.
Zeek, Richard M., and Flanigan. 3,039,315.
Ziegler, Eugene R. 3,016,753.
Ziegler, Eugene R. 3,016,836.
Ziegler, Eugene R. 3,025,554.
Ziegler, Eugene R. 3,036,847.
Ziegler, Eugene R. 3,055,304.
Ziegler, Eugene R. 3,059,264.
Ziegler, Eugene R. 3,060,480.
Ziegler, Eugene R. 3,070,733.
Zeigler, Philip B. 3,048,272.
Zeigler, Philip B. 3,048,234.
Zeigler, Philip B., and Thompson. 3,022,772.
Zeigler, Philip B., and White. 3,024,039.
Ziffer, Walter. 3,020,606.
Zook, Robert L. 3,062,469.
Zubaty, Joseph. 3,067,338.
Zubaty, Joseph G. 3,069,857.
General, Norman T., and O. Liang, to Ford Motor Co. Fluid pressure operated overrunning coupling. 3,054,488, 9–18–62, Cl. 192—44.
General Optics, Inc. : *See*—
Phipps, Lawrence C. III. 3,037,616.
General Plastics Corp. : *See*—
Erlewine, Richard H., and Richter. 3,041,446.
Hess, Paul S. 3,037,261.
General Precision, Inc. : *See*—
Alexander, John W., and Truesdell. 3,036,284.
Appleton, Norman J. 3,020,531.
Basim, Donald S., Flower, and McKay. 3,023,407.
Beer, Emanuel E. 3,028,083.
Belchis, Samuel. 3,044,059.
Bloch, Alan. 3,044,056.
Blumenfeld, Arthur C., and Gray. 3,039,063.
Bose, Norman J., and Kroninger. 3,019,072.
Brodersen, Rolf K. 3,061,805.
Buntenbach, Rudolph W., Carlson, and Williamson 3,062,574.
Chapman, Leslie R., Jr. 3,070,331.
Chase, Wallace P. 3,030,617.
Collen, Edwin G., and Wagoner. 3,027,797.
De Young, John. 3,056,549.
Dispenza, Daniel A. 3,068,439.
Du Bois, Norman L. 3,070,306.
Finkler, Ronald A., Pomerance, Goldman, and Zola. 3,056,111.
Fischel, Eduard M. 3,046,794.
Fischel, Eduard M. 3,058,357.
Fogarty, Laurence E. 3,018,052.
Fogarty, Laurence E. 3,022,069.
Fogarty, Laurence E. 3,039,205.
Fogarty, Laurence E., and Schwarm. 3,028,090.
Fortman, William K. 3,064,619.
Gevas, James C. 3,020,535.
Gevas, James C. 3,051,906.
Gillette, Frank N. 3,039,091.
Gray, Edward E., Hackett, and McFarland. 3,031,774.
Gray, Edward E., Schink, and Young. 3,067,526.
Gray, John W. 3,047,808.
Gray, John W. 3,070,796.
Gray, John W., King, and Reed. 3,061,830.
Greenhalf, William D. G. 3,035,354.
Grove, Alexander C. 3,051,123.
Hellings, Geoffrey M. 3,040,123.
Hemstreet, Harold S. 3,015,988.
Hemstreet, Harold S. 3,018,051.
Hemstreet, Harold S. 3,033,174.
Hemstreet, Harold S. 3,063,160.

General Precision, Inc.: *See*—Continued
Hemstreet, Harold S., and Montgomery. 3,067,725.
Hill, Frank A., and Pankratz. 3,027,468.
Hopkins, Robert E. 3,039,360.
Hunt, John M. 3,039,694.
Imm, Lewis W. 3,019,968.
Imm, Lewis W. 3,040,587.
Imm, Lewis W., Case, and Brandon. 3,042,297.
Jones, Clarence S. 3,054,100.
Jones, Clarence S., and Lewandowski. 3,018,392.
Jones, Clarence S., and Lewandowski. 3,040,194.
Jones, Clarence S., and Lewandowski. 3,040,195.
Kajihara, Hitoshi. 3,061,754.
Kass, Conrad, and Candell. 3,054,947.
Keeler, Eugene R. 3,023,322.
Keeler, Eugene R., and Kwap. 3,070,752.
Kenny, Charles R. 3,039,066.
Kishel, John J., and Tiplitz. 3,054,294.
Kleist, Robert A. 3,036,295.
Kleist, Robert A., and Jones. 3,018,475.
Kleist, Robert A., and Jones. 3,022,492.
Krupick, Walter J. 3,031,892.
Lang, Alphonse G., Jr., and Liss. 3,049,931.
Lang, Charles W., and Roberti. 3,044,009.
Levy, Paul M. 3,051,938.
McNally, James A., and Abate. 3,034,059.
Mershon, Ralph P., and Opocensky. 3,030,012.
Molander, William A., Jr., and Gut. 3,065,145.
Naydan, Bob N., and Paradise. 3,028,550.
Novak, Warren D. 3,055,131.
Novak, Warren D., and Sarman. 3,051,775.
O'Connor, Daniel G., and Nelson. 3,029,413.
Pankratz, A. J., Shoemaker, and Steen. 3,048,315.
Paradise, Ronald Y., and Naydan. 3,042,911.
Parker, Bernard. 3,068,704.
Parr, Albert F. W., Lawton, and Goldfischer. 3,028,592.
Reinholtz, William H. 3,019,420.
Reinholtz, William H. 3,031,646.
Remington, Richard C. 3,051,007.
Remington, Richard C., and Schauffler. 3,020,506.
Retzinger, Leo P., Jr. 3,056,956.
Riddle, Joseph E. 3,016,148.
Riordan, Hugh E. 3,046,793.
Riordan, Hugh E. 3,051,802.
Riordan, Hugh E. 3,055,636.
Riordan, Hugh E. 3,063,423.
Riordan, Hugh E. 3,068,880.
Samet, Frank. 3,055,635.
Seidman, Herbert A. 3,043,964.
Shapiro, Albert J., and Kuritsky. 3,029,016.
Simon, Joseph, and Pollock. 3,051,943.
Smith, Edgar J. 3,047,662.
Sommers, Alfred. 3,020,236.
Stavis, Gus. 3,032,758.
Stavis, Gus, and Grossman. 3,044,003.
Stiles, John C. 3,065,641.
Stupar, Wesley E. 3,022,500.
Thom, Joseph C. 3,067,525.
Tull, William J., and Graf. 3,032,756.
Wagoner, Robert V., Jr., and Collen. 3,037,284.
Williamson, Robert R., and Terry. 3,022,495.
Wilson, Richard M. 3,039,206.
Wolinsky, Albert. 3,047,855.
Zaleski, John F. 3,038,992.
Zaleski, John F. 3,047,859.
Zaleski, John F. 3,061,791.

General Precision Systems Ltd.: *See*—
Barber, Ernest E., and Simpkin. 3,049,297.
Barber, Ernest E., and Simpkin. 3,049,298.

General Radio Co.: *See*—
Frank, Richard W. 3,067,388.
Stuart, Robert W., Jr. 3,022,944.
Stuart, Robert W., Jr. 3,050,685.

General Railway Signal Co.: *See*—
Auer, John H., Jr. 3,045,909.
Auer, John H., Jr. 3,046,522.
Auer, John H., Jr. 3,063,179.
Auer, John H., Jr., Bolton, Kendall, and Hagen. 3,046,544.
Barker, William M., and Rees. 3,056,068.
Bloechl, Ludwig J. 3,025,512.
Bolton, Norman A. 3,054,891.
Brixner, Frederick W. 3,034,099.
Brixner, Frederick W. 3,034,100.
Brown, Ned C. L., and Vande Sande. 3,016,457.
Coley, Nelson B. 3,016,479.
Coley, Nelson B. 3,054,995.
Coley, Nelson B., Phelps, and Daly. 3,054,993.
Crain, Chester R. 3,025,393.
Dasburg, Alfred V. 3,054,893.
De Kramer, Isaac A., and Hagen. 3,046,364.
De Palma, James A. 3,035,246.
Hailes, William D. 3,045,112.
Haner, Robert B., and Sibley. 3,021,506.
Holt, Joseph. 3,034,240.
Howard, James Y., and Craig. 3,060,354.
Jschino, Carlo. 3,064,126.
Jackson, Carlton T. 3,036,121.
Jackson, Carlton T. 3,060,312.
Judge, Thomas J. 3,042,799.
Kendall, Hugh C., Auer, Bolton, and Frielinghaus. 3,042,303.

General Railway Signal Co.: *See*—Continued
Kendall, Hugh C., Auer, Bolton, and Frielinghaus. 3,042,899.
Livingston, Waltrus L. 3,054,890.
Maynard, Wheeler D. 3,035,128.
Phelps, Stuart M. 3,056,022.
Polster, Morton A. 3,030,608.
Polster, Morton A. 3,046,519.
Polster, Morton A. 3,046,520.
Porter, John W. 3,060,311.
Preston, Neil D. 3,056,126.
Smith, Willis R. 3,047,852.
Soule, Robert M., Jr. 3,059,724.
Soule, Robert M., Jr., and Auer. 3,054,894.
Swanton, Charles L. 3,038,991.
Vande Sande, George. 3,046,518.
Wilcox, Clinton S. 3,054,984.
Williamson, Robert B., and De Kramer. 3,055,455.

General Refractories Co.: *See*—
Fay, Wayne, and McClure. 3,026,212.
Heuer, Russell P. 3,034,457.
Heuer, Russell P. 3,036,925.
Heuer, Russell P. 3,042,534.
Heuer, Russell P. 3,051,101.
Heuer, Russell P. 3,063,777.
Heuer, Russell P. 3,064,594.

General Register Corp.: *See*—
Helsel, Reuben H., and Weingart. 3,034,714.

General Research, Inc.: *See*—
Sinajian, Luther G. 3,039,772.

General Riveters, Inc.: *See*—
Andrycha, Joseph J., and Speller. 3,069,938.

General Society of Refuse Recovery Ltd.: *See*—
Lavallee, Wilfrid. 3,061,205.

General Steel Industries, Inc.: *See*—
Lich, Richard L. 3,022,748.
Lich, Richard L. 3,030,074.
Voertman, Kenneth W., and Lich. 3,022,749.
Wintemberg, Adelbert C. 3,037,466.

General Steel Products Corp.: *See*—
Kearns, Thomas F., Jr. 3,019,863.

General Steel Wares Ltd.: *See*—
Thomson, Donald A. 3,064,637.

General Telephone & Electronics Laboratories, Inc.: *See*—
Bowerman, Edwin R., Jr. 3,020,410.
Dermit, George. 3,030,557.
Fowler, Vernon J. 3,057,755.
Marko, Albert J. 3,025,507.
Marko, Albert J. 3,070,702.
Matarese, John. 3,038,080.
Matarese, John. 3,066,287.
Montemurro, Joseph. 3,058,081.
Morrison, George H., and Palilla. 3,031,414.

General Time Corp.: *See*—
Biorge, Alfred I. 3,048,964.
Freeman, John D., and Kull. 3,023,327.
Freeman, John D., Kull, and Rast. 3,069,901.
Goodhouse, Carl J. 3,027,772.
Goodhouse, Carl J. 3,057,973.
Goodhouse, Carl J., and Jauch. 3,025,365.
Hillyer, Curtis. 3,059,847.
Lundin, Robert S. 3,040,246.
McDonough, Cletus G. 3,036,762.
Morrison, David, and Postell. 3,025,663.
Morrison, David, and Postell. 3,068,331.
Morrison, David, and Robinson. 3,039,260.
Rast, Frederick Q., and Wilson. 3,054,038.
Reynolds, Andrew C., Jr. 3,058,095.
Spetzler, August L., and Richards. 3,020,682.
Stenhammar, Harold T., and Kull. 3,027,506.
Wood, Robert D. 3,057,647.

General Tire & Rubber Co.: *See*—
Bagnuk, William W., and Sweet. 3,043,357.
Bingham, Robert E., and Beringer. 3,053,801.
Bingham, Robert E., Forrest, Hanlon, and Hutson. 3,062,759.
Chipman, Arthur D. 3,034,944.
Chipman, Arthur D., and Seymour. 3,032,460.
Chipman, Arthur D., and Shaheen. 3,051,598.
Coolidge, James C., and Hartz. 3,064,702.
Elmer, Otto C. 3,015,636.
Elmer, Otto C., and Weinstock. 3,028,353.
Fleming, Earl L., Neher, and Slemmons. 3,066,503.
Gagne, Romeo. 3,016,568.
Gmitter, George T., and Braidich. 3,050,477.
Gmitter, George T., Maxey, and Sanger. 3,021,290.
Hamway, Edward G., and Edwards. 3,041,193.
Iannazzi, Joseph L. 3,032,440.
Jacob, Ralph J., and Deming. 3,068,926.
Keplinger, Orin C., Elmer, and Duncan. 3,062,772.
Kraft, Herman T. 3,017,312.
Kraft, Herman T. 3,018,213.
Lang, Robert L. 3,039,651.
Magner, Philip G., Jr. 3,047,934.
Magner, Philip G., Jr. 3,067,804.
McMahon, Thomas J., and Henley. 3,017,919.
Pfeiffer, Paul O. 3,055,456.
Piotrowski, Henry, and Van Gils. 3,055,854.
Robinson, Jack D., and Urbanic. 3,026,228.
Roy, Herman T. 3,070,471.
Schick, Harold P. 3,051,601.
Schaffel, Gerson S. 3,068,129.

General Tire & Rubber Co. : *See*—Continued
Seymour, Malcolm. 3,023,430.
Siemmons, Charles O., and Welch. 3,033,558.
Siemmons, Charles O. 3,055,182.
Siemmons, Charles O., Sabo, and Baranecky. 3,061,499.
Sweet, Donald L., and Kyriakides. 3,048,509.
Te Grotenhuis, Theodore A. 3,023,181.
General Ultrasonics Co. : *See*—
Rich, Stanley R. 3,050,720.
Generale Aeronautique Marcel Dassault : *See*—
Le Tilly, Henri, and Michel. 3,068,705.
Generale Metallurgique de Hoboken, Societe : *See*—
Corbiau, Paul-Emile. 3,041,138.
Pokorny, Ernst A. 3,062,727.
Generale Thermique-Procedes Brola, Societe Anonyme : *See*—
Brola, Gabriel. 3,021,892.
Brola, Gabriel. 3,028,908.
Brola, Gabriel. 3,031,012.
Geneste, Henry G. : *See*—
Weiss, William, and Geneste. 3,064,666.
Geneste, Henry G., to Rotary Hospital Equipment Corp. Machine for processing surgical gloves. 3,064,359, 11–20–62, Cl. 34—87.
Genetti, Charles A., to Ren Plastics, Inc. Method of fabricating a master model. 3,039,912, 6–19–62, Cl. 156—246.
Genetti, Leon A., Sr. Cardboard cutter implement. 3,037,278, 6–5–62, Cl. 30—2.
Geneve, Raoul, to North American Philips Co., Inc. Transmission system. 3,050,449, 4–17–62, Cl. 179—15.
Genevoise d'Instruments de Physique, Societe : *See*—
Aquillon, André, and Pingeon. 3,036,479.
Courtois, Francis. 3,027,812.
Koulikovitzh, Miron. 3,037,156.
Kouikovitch, Miron. 3,042,804.
Motiu, André, Gassmann, and Koechlin. 3,036,493.
Rollat, Germain. 3,041,895.
Genich, William H., to J. W. Greer Co. Rotating wire cutoff for extrusion machines. 3,064,589, 11–20–62, Cl. 107—29.
Genier, Henry L., to Reserve Mining Co. Rod mill feeding means. 3,047,242, 7–31–62, Cl. 241—171.
Genisco Inc. : *See*—
Bekey, Andrew. 3,038,092.
Bekey, Andrew. 3,068,373.
Bekey, Andrew. 3,068,374.
Jonas, Gilbert F. 3,063,075.
Gennari, Piero : *See*—
Bossi, Enrico. 3,025,781.
Genning, Ernst : *See*—
Herrmann, Gunter, and Genning. 3,052,785.
Schuh, Carl F., Genning, and Hermann. 3,016,244.
Gennings, Ernst. Brake for reversible drive means in wire or tape sound recording and reproducing apparatus. 3,029,034, 4–10–62, Cl. 242—55.12.
Genovese, Anthony L., to National Plastic Products Co., Inc. Method and apparatus for transferring continuously running thread to a spool. 3,033,479, 5–8–62, Cl. 242—54.
Genovese, Frank C., Jr., to United States of America, Navy. Differential cerenkov counter. 3,049,619, 8–14–62, Cl. 250—71.5.
Gens, Theodore A., to United States of America, Atomic Energy Commission. Recovery of uranium from zirconium-uranium nuclear fuels. 3,043,653, 7–10–62, Cl. 23—14.5.
Genser, Milton : *See*—
Schwartz, Robert S., and Genser. 3,025,763.
Genser, Theodore K. Kraemer, and M. S. Levin, to Williams Electronics Mfg. Corp. Display and dispensing apparatus for flat articles. 3,055,545, 9–25–62, Cl. 221—126.
Gensheimer, David E. : *See*—
Hunter, Edward A., Aldridge, and Gensheimer. 3,051,766.
Gensheimer, David E., and E. C. Brown, to Esso Research and Engineering Co. Isobutylene purification process using a pretreated zeolitic molecular sieve. 3,061,654, 10–30–62, Cl. 260—677.
Genski, Kurt : *See*—
Schmidt, Karl-Ludwig, Müller, Bayer, Genski, and Peter. 3,036,042.
Gensler, George W. : *See*—
Leybourn, Charles W., and Gensler. 3,065,668.
Gent, Hubert, to Minister of Supply in Her Majesty's Government of the United Kingdom of Great Britain and Northern Ireland. Linear array with mode conversion. 3,027,557, 3–27–62, Cl. 343—756.
Gent, John J. R. : *See*—
Currant, Jack, Gent, and Hunter. 3,038,822.
Currant, Jack, Gent, and Hunter. 3,038,823.
Genter, Albert L., R. R. and R. M. Kennedy. Method and apparatus for settling solids from liquids. 3,067,878, 12–11–62, Cl. 210—83.
Genter, David H. E., to Crucible Steel Co. of America. Method of spinning agricultural discs. 3,050,830, 8–28–62, Cl. 29—148.3.
Gentex Corp. : *See*—
Baker, Edgar G. 3,049,735.
Friedler, Leonard P., and Fryer. 3,018,210.
Weinberger, Jan V., and Luisada. 3,065,351.
Gentile, Ralph, and R. E. Klauss, to Eastman Kodak Co. Film mount transport mechanism. 3,057,516, 10–9–62, Cl. 221—236.
Gentle, Alexander H., A. Richmond, and N. J. Tunstall, to British Celanese Ltd. Composite textile yarns. 3,034,279, 5–15–62, Cl. 57—157.
Gentle, Howard L. : *See*—
Lyles, George D., Griswold, and Gentle. 3,060,461.
Gentles, Robert P., to Imperial Chemical Industries Ltd. Polyether derivatives. 3,042,666, 7–3–62, Cl. 260—209.
Gentner, Kurt, to Moto Meter Schlaich Hermann. Rotary speed indicator. 3,059,180, 10–16–62, Cl. 324—70.
Gentry, Hermond G., to The Mead Corp. Method and means for packaging groups of articles with inserts therebetween. 3,032,942, 5–8–62, Cl. 53—26.
Gentry, Hermond G., to The Mead Corp. Apparatus and method for enclosing articles in paperboard carton structures. 3,064,405, 11–20–62, Cl. 53—195.
Gentry, Leonard E. Dual purpose shower head assembly. 3,018,969, 1–30–62, Cl. 239—312.
Gentry, Merle O. Sanitary rectal fountain. 3,045,248, 7–24–62, Cl. 4—7.
Genuit, John M. Line pick-up for a spinning reel. 3,036,788, 5–29–62, Cl. 242—84.2.
Genuit, Luther L., to General Electric Co. High frequency lighting systems and ballast circuits therefor. 3,018,408, 1–23–62, Cl. 315—95.
Genuit, Luther L., and J. Popa, to General Electric Co. Starting and operating circuit for a discharge device. 3,037,147, 5–29–62, Cl. 315—205.
Geocaris, Robert S., to Thomas Industries, Inc. Lighting and ventilating fixture. 3,065,686, 11–27–62, Cl. 98—40.
Geoffroy-Delore, Societe Anonyme : *See*—
Haugwitz, Otto. 3,061,953.
Haugwitz, Otto. 3,061,997.
Haugwitz, Otto. 3,067,564.
Haugwitz, Otto. 3,067,568.
Georg, Raymond H., and P. E. Kopp; said Kopp assor. to said Georg. Grinding machine. 3,017,727, 1–23–62, Cl. 51—6.
George, Albert L., and W. C. Lamb, said A. L. George, assor. to said W. C. Lamb. Guide for oil well pipe. 3,043,619, 7–10–62, Cl. 294—86.
George, David M., E. E. Rush, and E. C. Held, Jr., to Phillips Petroleum Co. Propellant expansion joint. 3,066,481, 12–4–62, Cl. 60—35.6.
George, Donald K., to FMC Corp. Novel hexahydrotriazines and synthesis thereof. 3,065,232, 11–20–62, Cl. 260—248.
George, Harry F. Latching and locking mechanism. 3,025,694, 3–20–62, Cl. 70—107.
George, Harvey F., and J. J. Kimball, to Gravure Research, Inc. Apparatus for controlling web tension. 3,032,245, 5–1–62, Cl. 226—39.
George, Hayden R., and N. B. Fisher. Clamping tables. 3,025,050, 3–13–62, Cl. 269—159.
George, Hayden R., and N. B. Fisher. Apparatus for folding sheet material. 3,066,563, 12–4–62, Cl. 83—81.
George, Henry P., and H. W. Euker, to United States of America, Army. Impact resistant aluminum alloy plate. 3,042,555, 7–3–62, Cl. 148—32.5.
George, Howard A. Means for producing special cams. 3,018,665, 1–30–62, Cl. 90—15.
George, Howard A. Adjustable cam means for winding machines. 3,047,245, 7–31–62, Cl. 242—9.
George, Howard A. Compensating coil winding means. 3,051,885, 8–28–62, Cl. 318—467.
George, James, to National Co., Inc. Molecular beam source. 3,058,025, 10–9–62, Cl. 313—231.
George, James H. : *See*—
Robeson, Max O., and George. 3,054,803.
George, James R., 50% to G. F. Quimby. Portable sportsman's seat. 3,057,431, 10–9–62, Cl. 182—163.
George, Leslie B., to Journal Box Servicing Corp. Journal stop. 3,028,202, 4–3–62, Cl. 308—38.
George, McCona, to Charles H. Bacon, Inc. Suction apparatus for hosiery loopers. 3,068,814, 12–18–62, Cl. 112—25.
George, Paul J., and M. R. Frederick, to The B. F. Goodrich Co. Polymerization of vinyl chloride. 3,025,284, 3–13–62, Cl. 260—92.8.
George, Peter D., to Bokum Tool Co., Inc. Tool head with micrometer adjustment and dial indicator. 3,044,322, 7–17–62, Cl. 77—58.
George, Philip D., to General Electric Co. Polysiloxane resins. 3,021,297, 2–13–62, Cl. 260—37.
George, Philip F. : *See*—
Gleason, Fred C., and George. 3,027,097.
George, Stephen, to Symington-Wayne Corp. Selecting apparatus for variable transmission. 3,047,220, 7–31–62, Cl. 235—61.
George, Warren E., and F. C. Kiechel, to Auburn Machine Works, Inc. Mobile trenching tool. 3,054,198, 9–18–62, Cl. 37—86.
George, Warren E., F. C. Kiechel, and G. W. McNich, to Auburn Machine Works, Inc. Portable trenching device. 3,057,088, 10–9–62, Cl. 37—86.
George, Wayland D., S. B. Jones, and H. P. Yule, to California Research Corp. Scintillation detector cooling system. 3,048,620, 8–14–62, Cl. 250—71.5.
George, William P. : *See*—
Reichert, William G., Jr., and George. 3,031,627.
Georgen, Robert D. : *See*—
Davidson, John T., Georgen, and Fortune. 3,044,694.
Georgeoff, John : *See*—
Logemann, George H., and Georgeoff. 3,064,407.
Georges, Félix, to Societe Auxiliaire d'Industrie (Sadi) S.P.R.L. Transmission mechanism. 3,057,228, 10–9–62, Cl. 74—801.

Georgette, Nicholas J., and W. Hayden, to Technical Design and Development Co., Inc Strip stock feeding machine. 3,035,833, 5–22–62, Cl. 271—4.

Georgi, Theodor: *See*—
Puffe, Werner, and Georgi. 3,057,587.

Georgi, Theodor. Rear truck arrangement for a trailer. 3,057,639, 10–9–62, Cl. 280—81.

Georgia Tech Research Institute: *See*—
Allen, Robert L. 3,033,182.
Allen, Robert L. 3,039,699
Castles, Walter, Jr. 3,066,742.
Currie, Charles H., and Elliott. 3,028,960.
Robertson, Douglas W., and Warren. 3,068,426.

Georgia Tool & Engineering Co.: *See*—
Stevens, William A., and Roben. 3,026,967.

Georgian, Vlasios. Decahydroisoquinoline derivatives. 3,015,-661, 1–2–62, Cl. 260—287.

Georgian, Vlasios, J. F. Kerwin, and M. E. Wolff, to Smith Kline & French Laboratories. 12a,13a-methano-18-norsteroids. 3,019,235, 1–30–62, Cl. 260—397.3.

Georgian, Vlasios, and J. F. Kerwin, to Smith Kline & French Laboratories. 20-amino-12,18-cyclopregnane derivatives. 3,019,236, 1–30–62, Cl. 260—397.3.

Georgs, Henry O., to The M. W. Kellogg Co. Method of starting up a hydrocarbon treating process. 3,053,758, 9–11–62, Cl. 208—216.

Gerace, Frank J. Telephone clock alarm. 3,029,593, 4–17–62, Cl. 58—16.

Gerace, Lawrence. handrail starter. 3,039,799, 6–19–62, Cl. 287—54.

Geraci, Joseph G.: *See*—
Hagenuaer, Rudolph, and Geraci. 3,032,210.

Geraghty, Joseph T., Jr. Groove and thread checking gauge. 3,067,520, 12–11–62, Cl. 33—147.

Gerald, Curtis F.: *See*—
Purse, Franklyn V., and Gerald. 3,068,079.

Gerald, Curtis F., to The Universal Oil Products Co. Self-regulating injector. 3,022,934, 2–27–62, Cl. 230—103.

Gerard, George, and J. Brayman, to Engineering Supervision Co. Metal-forming press. 3,031,993, 5–1–62, Cl. 113—44.

Gerard, George, and J. Brayman, to Engineering Supervision Co. Super-high pressure apparatus. 3,044,113, 7–17–62, Cl. 18—5.

Gerard, Frank W., to General Motors Corp. Refrigerating apparatus including means to prevent excessive frosting. 3,044,271, 7–17–62, Cl. 62—150.

Gerard, George. Furnace construction. 3,065,741, 11–27–62, Cl. 122—250.

Gerard, George, and J. Brayman, to Engineering Supervision Co. Multi-anvil, force compensating pressure apparatus. 3,049,756, 8–21–62, Cl. 18—16.

Gerard, George, to Jiffy Mfg. Co. Bag construction. 3,055,-873, 9–25–62, Cl. 229—66.

Gerard, George, and J. Brayman, to Barogenics, Inc. Closure systems for pressure vessels. 3,063,594, 11–13–62, Cl. 220—46.

Gerard, George A. Flow control valve. 3,034,530, 5–15–62, Cl. 137—552.

Gerard, George A. Impeller pump. 3,056,354, 10–2–62, Cl. 103—87.

Gerard, Joseph C., to Ethicon, Inc. Methods and apparatus for making thin plastic gloves. 3,028,576, 4–3–62, Cl. 156—251.

Gerard, Paul, to Ford, Howard, & Co. Ltd. Packaging ladies' stockings. 3,063,554, 11–13–62, Cl. 206—46.

Gerard, Raymond T., and T. Anthony, to The Dow Chemical Co. Emulsion type removers for removing protective and decorative coatings. 3,060,126, 10–23–62, Cl. 252—159.

Gerard, Horace W. Method of providing for blood count and pipette and assembly for use therein. 3,045,494, 7–24–62, Cl. 73—425.6.

Gerardi, Robert J.: *See*—
Henning, Frederick W., and Gerardi. 3,030,774.

Gerbaux, Rene C., J. T. Lemmerling, and F. A. Claes, to Gevaert Photo-Producten N.V. Preparation of cellulose derivatives. 3,045,006, 7–17–62, Cl. 260—224.

Gerber, Dale C., to The Hoover Co. Suction washing appliance. 3,020,576, 2–13–62, Cl. 15—320.

Gerber, Dale C., to The Hoover Co. Suction cleaners. 3,040,365, 6–26–62, Cl. 15—354.

Gerber, Eduard A., to United States of America, Army. Crystal frequency stabilization. 3,020,423, 2–6–62, Cl. 310—8.9.

Gerber, Fritz, to SKF Kugellagerfabriken G.m.b.H. Textile drafting assembly. 3,044,128, 7–17–62, Cl. 19—295.

Gerber, Hanns, and R. Stroh, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of 3,5,3',5'-tetra-substituted 4,4'-dihydroxy-diphenylmethyl carboxylic acids. 3,038,935, 6–12–62, Cl. 260—520.

Gerber, Hanns, and R. Stroh, to Bayer Aktiengesellschaft, Farbenfabriken. Process for the production of spinning solutions of polyacrylonitrile. 3,044,975, 7–17–62, Cl. 18—54.

Gerber, Howard, to M. Martel. Reel inserts. 3,028,113, 4–3–62, Cl. 242—74.1.

Gerber, Jerome J. Automatic wagon changer. 3,054,626, 9–18–62, Cl. 280—478.

Gerber, Karl H., to Wilhelm Pieper, Braunschweiger Farbenwerke, & Co. K.-G. Process and apparatus for manufacturing sheets from polymerizable substantially solvent-free casting resins. 3,032,815, 5–8–62, Cl. 18—15.

Gerber Products Co.: *See*—
Burnett, Edward N. 3,043,490.
Burnett, Edward N. 3,049,228.
Burnett, Edward N., Cross, and Tuttle. 3,040,909.
Cross, Ralph C., and Johnson. 3,040,910.
Eolkin, Dave. 3,066,030.
Krupp, Robert F., and Wagner. 3,019,924.
Krupp, Robert F., and Wagner. 3,028,946.
Krupp, Robert F., and Wagner. 3,040,875.
Stewart, Robert A., and Rock. 3,052,555.

Gerber, Roy C. Folding picnic basket. 3,032,230, 5–1–62, Cl. 220—6.

Gerber, William J.: *See*—
Faulk, Donald P., and Gerber. 3,051,919.

Gerbing Mfg. Co.: *See*—
Sleeper, Murrel B. 3,059,744.

Gerbracht, Fred. Collapsible amphibious catamaran. 3,061,-845, 11–6–62, Cl. 9—2.

Gerchow, Wilbur R., to The Sidney Machine Tool Co. Speed change device. 3,058,365, 10–16–62, Cl. 74—341.

Geren, Keith E. Audible broadband sonar monitor. 3,064,235, 11–13–62, Cl. 340—5.

Gerdts, Gustav F., K.G.: *See*—
Pape, Hans-Martin. 3,037,518.

Gerhardt, Andrew H., and R. Waldrop, to Borg-Warner Corp. Filtering agitator. 3,022,655, 2–27–62, Cl. 68—18.

Gerhardt, Carl F.: *See*—
Dusing, Charles F., and Gerhardt. 3,039,291.

Gerhardt, Carl F., to Dusing and Hunt, Inc. Thermally released closer for fire doors. 3,039,573, 6–19–62, Cl. 182—47.

Gerhardt, Gerard E., to American Cyanamid Co. Check spot for particle counter. 3,015,440, 1–2–62, Cl. 235—92.

Gerhardt, Richard E.: *See*—
Mack, Grant V., and Gerhardt. 3,058,203.

Gerhauser, Merton F. Sealed packet and method for making same. 3,057,128, 10–9–62, Cl. 53—28.

Gerhold, Clarence G., to Universal Oil Products Co. Selective solvent extraction process for the separation of mixtures of aromatic and non-aromatic hydrocarbons. 3,037,062, 5–29–62, Cl. 260—674.

Gerich, Walter R.: *See*—
Gardner, Kenneth E., Veltre, and Gerich. 3,064,612.

Gericke, Erich. Inking systems for offset printing and duplicating machines. 3,029,729, 4–17–62, Cl. 101—351.

Gericke, Erich. Printing or duplicating machines. 3,030,106, 4–17–62, Cl. 271—60.

Gerin, Jacques J.-J. High lift, highly extensible device for aircraft wings. 3,041,014, 6–26–62, Cl. 244—42.

Gerin, Jacques, to Eternit, Kapelle-op-den-bos, Societe Anonyme. Sleeve coupling with internal elastic rings for smooth pipes. 3,066,961, 12–4–62, Cl. 285—230.

Gerke, Horst: *See*—
Ragosch, Ernst, and Gerke. 3,041,521.

Gerko, Joseph I., to American Cyanamid Co. Process for preparing molding composition comprising aldehyde condensation product and non-ionic surface active agent. 3,052,27?—20–62, Cl. 260—17.5.

Gerlach, Erwin, to Svenska Aktiebolaget Gasaccumulator. Film projector register arrangement. 3,058,637, 10–16–62, Cl. 226—53.

Gerlach, George: *See*—
McKinley, Robert E., and Gerlach. 3,057,131.

Gerlach, Martin, to North American Philips Co., Inc. Method of soldering molybdenum foil by means of molybdenum carbide. 3,059,329, 10–23–62, Cl. 29—501.

Gerlach, Martin, and W. Forster, to Bayerische Schrauben- und Federn-Fabriken Richard Bergner. Connection of two sids by side electric cables. 3,015,685, 1–2–62, Cl. 174—90.

Gerlach, Martin, and O. Müller, to Bayerische Schrauben- und Federn-Fabriken Richard Bergner, Firma. Spacer for electrical conductors. 3,032,605, 5–1–62, Cl. 174—128.

Gerlach, Stephen G. Bowling ball. 3,039,774, 6–19–62, Cl. 273—63.

Gerli, John E. Muffler. 3,047,091, 7–31–62, Cl. 181—52.

Gerlich, Hans. H. E. Knobloch, and F. Meyer, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Polymers of monovinyl compounds with maleic acid half-esters and maleic acid half-amides. 3,041,315, 6–26–62, Cl. 260—78.

Gerlich, Stephen. Muffler. 3,018,841, 1–30–62, Cl. 181—56.

Gerloff, Richard T.: *See*—
Chait, Hyman. 3,031,038.

Germain, Jack, to Motorola, Inc. Two-way vehicle radio communication equipment employing hybrid circuitry within a sectionalized chassis. 3,059,184, 10–16–62, Cl. 325—21.

Germain, Leo M., to Shawinigan Chemicals Ltd. Vinyl acetate-polyoxyalkylene compound copolymers and method of preparation. 3,033,841, 5–8–62, Cl. 260—89.1.

Germain, Leo M., to Shawinigan Chemicals Ltd. Process for splicing paper, process for preparing a heat hardenable film and heat hardenable polyvinyl acetate composition. 3,053,721, 9–11–62, Cl. 156—157.

Germain, Marc A.: *See*—
Poesnan, Armand J. J., and Germain. 3,034,981.

Germaine, Chad L.: *See*—
Germaine, Edward R. and C. L. 3,050,209.

Germaine, Edward R. and C. L. Garbage receptacle. 3,050,-209, 8–21–62, Cl. 220—18.

German, Dale E.: *See*—
Clampitt, Bert H., and German. 3,031,520.

German, George: *See*—
Bache, John K., and German. 3,020,037.

German, George R. Inclination and flatness gauge. 3,047,-956, 8–7–62, Cl. 33—174.

German, Richard C., S. E. Arnett, and E. G. Roberts, to The Bendix Corp. Jet engine fuel control responsive to inferentially measured combustion gas temperature. 3,019,597, 2–6–62, Cl. 60—35.6.

Germane Corp.: *See*—
Charlson, Lynn L. Re. 25,126.
Charlson, Lynn L. Re. 25,291.

Germann, Herbert J., to Studebaker-Packard Corp. Hinge device for automobiles. 3,024,488, 3–13–62, Cl. 16—128.1.

Germano, Charles E. Instant coffee dispenser. 3,056,532, 10–2–62, Cl. 222—361.

Germany, Leslie W., and K. W. Whiting, to Pye Ltd. Television cameras. 3,038,025, 6–5–62, Cl. 178—7.2.

Germany, Leslie W., and J. Kingsbury, to Pye Ltd. Focussing means for television cameras and television cameras incorporating them. 3,055,975, 9–25–62, Cl. 178—7.2.

Germeshausen, Kenneth J., to Edgerton, Germeshausen & Grier, Inc. Transmission-line transformer. 3,051,918, 8–28–62, Cl. 333—31.

Germick, Willard D., ¼o to Gadget-of-The-Month Club, Inc. Chair arm-mountable accessory-carrying device. 3,042,467, 7–3–62, Cl. 311—17.

Gerner, Robert V., to Phillips Petroleum Co. Heavy hydrocarbon recovery from petroliferous deposits by hydraulic washing. 3,050,289, 8–21–62, Cl. 262—2.

Gerner, Theodore C. Replacement unit for idler arm bracket. 3,044,798, 7–17–62, Cl. 280—95.

Gernes, Donald C., to Kaiser Aluminum & Chemical Corp. Improvement in a process for producing synthetic cryolite. 3,061,411, 10–30–62, Cl. 23—88.

Gernes, Donald C., and W. R. King, to Kaiser Aluminum & Chemical Corp. Producing aluminum fluoride. 3,057,681, 10–9–62, Cl. 23—88.

Gernhardt, Paul D.: *See*—
Dorkins, Evan E., and Gernhardt. 3,034,587.

Gero. John B., to Gero Metallurgical Corp. Method of vacuum casting. 3,024,507, 3–13–62, Cl. 22—209.

Gero Metallurgical Corp.: *See*—
Gero, John B. 3,024,507.

Gerold, Charles L. Slatted closure device for windows. 3,034,574, 5–15–62, Cl. 160—34.

Gerosa, Vittorina: *See*—
Salimberti, Paolo, Gerosa, and Melandri. 3,025,317.

Gerow, Milo R. Wind-up method and apparatus. 3,061,875, 11–6–62, Cl. 18—14.

Gerow, Russell T.: *See*—
Braun, Theodor H., and Gerow. 3,055,261.

Gerr, Raymond, to United States of America, Navy. Clipper having independent controls for setting input clipping level and direct voltage level of resulting output. 3,041,-541, 6–26–62, Cl. 328—31.

Gerrans, William L. Pruning and fruit picking rig. 3,056,-465, 10–2–62, Cl. 182—148.

Gerrard, A. J., & Co.: *See*—
Koehler, Albert T. 3,066,599.

Gerrard Industries Ltd.: *See*—
Sansum, Robert D. 3,039,380.

Gerrard, John A. F., to Texas Instruments Inc. System for recording data for use in seismic survey. 3,054,473, 9–18–62, Cl. 181—5.

Gerrard, John A. F., and H. K. Reynolds, to Texas Instruments Inc. Apparatus for simulating geophysical phenomena. 3,035,771, 5–22–62, Cl. 235—184.

Gerrish, Grenville B. J.: *See*—
Malanaga, Bruno J., and Gerrish. 3,052,040.

Gersch, Adolph E., to Stewart-Warner Corp. Meter movement. 3,047,805, 7–31–62, Cl. 324—150.

Gershen, Irvin J., to Johnson & Johnson. Tape dispenser. 3,034,691, 5–15–62, Cl. 225—25.

Gershen, Irvin J., to Personal Products Corp. Catamenial device. 3,059,641, 10–23–62, Cl. 128—263.

Gershen, Irvin J., to Personal Products Corp. Catamenial device. 3,059,642, 10–23–62, Cl. 128—263.

Gershon, Sol D., to Lever Bros. Co. Dentifrice. 3,060,098, 10–23–62, Cl. 167—93.

Gersie, John J., and L. B. Nelson, to Socony Mobil Oil Co., Inc. Polypropylene and wax coating formulation. 3,042,-640, 7–3–62, Cl. 260—28.5.

Gersoni, Charles S. Biological window for internal observation. 3,054,396, 9–18–62, Cl. 128—2.

Gerspach, Wolfram. Crediting apparatus for automatic coin-responsive machines. 3,032,161, 5–1–62, Cl. 194—9.

Gerst, Franz. Wire-reel or the like. 3,054,575, 9–18–62, Cl. 242—129.

Gerstenberger, Walter, and H. T. Jensen, to United Aircraft Corp. Gyro stabilizer for helicopter. 3,037,722, 6–5–62, Cl. 244—17.13.

Gerstenmaier, John H., T. J. Leo, R. H. Miller, and T. E. Shaul, to The Goodyear Tire & Rubber Co. Method of making mats. 3,042,974, 7–10–62, Cl. 18—53.

Gerstmeier, Bernhard, W. Gradenwitz, and E. Grotkopp, to P. Beiersdorf & Co., Aktiengesellschaft. Bag-sealing devices. 3,068,625, 12–18–62, Cl. 53—198.

Gerteis, Karl M., to Carrier Corp. Refrigeration systems. 3,020,464, 2–6–62, Cl. 318—221.

Gerteis, Karl M., to Carrier Corp. Refrigeration system with means to maintain a minimum condensing pressure. 3,064,-445, 11–20–62, Cl. 62—174.

Gerteis, Karl M., and R. G. McCready, to Carrier Corp. Heat pump system. 3,024,619, 3–13–62, Cl. 62—160.

Gertel, Maurice, to Allied Research Associates, Inc. Vibration isolator. 3,066,905, 12–4–62, Cl. 248—358.

Gerth, Sol R., A. S. Katz, C. Adler, and R. J. Spercel, to Sterling Industries, Inc. Door closer. 3,026,104, 3–20–62, Cl. 267—70.

Gertler, Morton: *See*—
Goodman, Alex, and Gertler. 3,052,120.

Gertler, Samuel I.: *See*—
Beroza, Morton, Green, and Gertler. 3,016,329.

Gertsch, Ernst. Ski-stopping device. 3,048,418, 8–7–62, Cl. 280—11.

Gertula, Virgil G.: *See*—
Coma, James G., and Gerttula. 3,045,051.

Gervais, Henry: *See*—
Guarino, Frederick L., Gervais, and Vlahov. 3,019,519.

Gerweck, Leonard J.: *See*—
Brigham, William T., and Gerweck. 3,066,760.

Gerwick, Ben C., to Ben C. Gerwick, Inc. Method for the manufacture of concrete structures. 3,055,077, 9–25–62, Cl. 25—155.

Gerwick, Ben C., Inc.: *See*—
Gerwick, Ben C. 3,055,077.
Gerwick, Ben C., Jr. 3,055,073.

Gerwick, Ben C., Jr., to Ben C. Gerwick, Inc. Method and apparatus for the continuous production of prestressed concrete members. 3,055,073, 9–25–62, Cl. 25—2.

Gerwing, Harry, A. Longree, and W. Wollschina, to Licentia Patent-Verwaltungs G.m.b.H. Cooling system for electric conductors in hollow shafts. 3,043,901, 7–10–62, Cl. 174—15.

Gery, Glen, Shale Brick Corp.: *See*—
Coxey, James R. 3,044,140.

Geschickter, Charles F.: *See*—
Geschickter, Charles H., and Geschickter. 3,069,423.

Geschickter, Charles F., to The Geschickter Fund for Medical Research, Inc. Morpholine derivative of thio-disalicylic acid. 3,036,072, 5–22–62, Cl. 260—247.1.

Geschickter, Charles F. Virucidal 2,2,4,4 tetrahydroxy diphenyl sulfide formaldehyde reaction-products. 3,056,801, 10–2–62, Cl. 260—326.3.

Geschickter, Charles F., J. S. Pierce, Y. H. Chen, and E. E. Reid. 1-carbalkoxy-4-(aminoalkanol) piperazines. 3,015,-657, 1–2–62, Cl. 260—247.2.

Geschickter, Charles F., E. E. Reid, J. S. Pierce, and Y. H. Chen, to The Geschickter Fund for Medical Research, Inc. Piperazine derivatives. 3,037,983, 6–5–62, Cl. 260—268.

Geschickter, Charles F., J. S. Pierce, and E. E. Reid, to The Geschickter Fund for Medical Research, Inc. Unsymmetrical 1,3-diamino-2-propanols. 3,056,792, 10–2–62, Cl. 260—288.

Geschickter, Charles F., and J. R. Meadow, to The Geschickter Fund For Medical Research, Inc. 4,4′-dihydroxy-3,3′-dialkoxy-5,5′-bis-(morpholinomethyl)-hydrobenzoin. 3,062,-817, 11–6–62, Cl. 260—247.5.

Geschickter Fund for Medical Research, The: *See*—
Geschickter, Charles F., and Meadow. 3,062,817.
Geschickter, Charles F., Reid, Pierce, and Chen. 3,037,-983.
Geschickter, Charles F., Pierce, and Reid. 3,056,792.
Grogan, Charles H., and Rice. 3,069,424.

Geschka, Hugo W., to Maschinenfabrik Peter Pfennigsberg G.m.b.H. Washing machine having circuit means for opening and closing water inlet means and overflow means alternately. 3,034,326, 5–15–62, Cl. 68—12.

Gesell, William F., to The Sheffield Corp. Gaging apparatus with calibrating means. 3,065,628, 11–27–62, Cl. 73—37.9.

Gesellschaft der Ludw. von Roll'schen Eisenwerke AG: *See*—
Bretscher, Otto. 3,046,762.
Meister, Erwin. 3,026,089.

Gesellschaft fur Industrielle Technik m.b.H.: *See*—
Butter, Otto. 3,058,566.
Butter, Otto. 3,066,333.
Butter, Otto, and Erndt. 3,060,485.

Gesellschaft fur Linde's Eismaschinen Aktiengesellschaft: *See*—
Becker, Rudolf. 3,046,750.
Becker, Rudolf. 3,057,168.
Karwat, Ernst. 3,023,076.
Karwat, Ernst, Weishaupt, and Oberpriller. 3,050,950.
Leunig, Günther. 3,068,845.
Schafer, Georg. 3,038,772.
Tajbl, Franz. 3,058,047.
Wolff, Lothar, and Mantel. 3,035,154.

Gesellschaft fur Linde's Eismaschinen Aktiengesellschaft; Zweigniederlassung Guldner-Motoren-Werke Aschaffenburg: *See*—
Mehlmann, Hans. 3,035,663.

Geshickter Fund for Medical Research, Inc., The: *See*—
Geschickter, Charles F. 3,036,072.

Gessell, Glenn P. Overhead door operator with safety disconnectible coupling. 3,066,729, 12–4–62, Cl. 160—193.

Gessler, Albert E. Fertilizer sticks. 3,057,713, 10–9–62, Cl. 71—64.

Gessler, Albert E. Time-delay temperature indicator. 3,065,-083, 11–20–62, Cl. 99—192.

Gessler, Albert E., C. E. Bender, and M. Parkinson. Separation of nucleoproteins and nucleic acids from aqueous protein mixtures. 3,065,141, 11–20–62, Cl. 167—74.

Gessler, Albert M.: *See*—
Vanderbilt, Byron M., Marsden, and Gessler. 3,026,223.

Gessler, Albert M., to Esso Research and Engineering Co. Modified carbon black and methods of preparing and using same. 3,024,092, 3–6–62, Cl. 23—209.2.

Gessler, Albert M., to Esso Research and Engineering Co. Making improved carbon black. 3,054,662, 9–18–62, Cl. 23—209.1.

Gessler, Albert M., and W. H. Haslett, Jr., to Esso Research and Engineering Co. Process for preparing a vulcanized blend of crystalline polypropylene and chlorinated butyl rubber. 3,037,954, 6–5–62, Cl. 260—29.8.

Gessler, Albert M., and W. J. Sparks, to Esso Research and Engineering Co. Thermoplastic polymer-bonded aggregate compositions, and manufacture thereof. 3,070,557, 12–25–62, Cl. 260—4.

Gessler, Albert M., and W. J. Sparks, to Esso Research and Engineering Co. Compositions comprising polyethylene, steam-cracked petroleum resin and aggregate and process for blending same. 3,070,568, 12–25–62, Cl. 260—41.

Gessler, Albert M., and W. J. Sparks, to Esso Research and Engineering Co. Paving composition comprising aggregate plus steam cracked petroleum resin. 3,070,570, 12–25–62, Cl. 260—41.5.

Gessler, Otto C. Automobile body closure hinge. 3,069,720, 12–25–62, Cl. 16—128.1.

Gessner, Eugene. Core array using coaxially spaced conductors. 3,064,334, 11–20–62, Cl. 29—155.57.

Gest, Donnald W.: *See*—
Bronson, Florence M., and Gest. 3,027,037.

Gestentner Ltd.: *See*—
Spencer, Alexander. 3,053,658.

Gestetner Ltd.: *See*—
Gates, Albert G. R. 3,043,215.

Getaz, James L., to F. D. De Long, Jr. Circular knit hosiery and method of forming the foot of same. 3,015,942, 1–9–62, Cl. 66—186.

Gething, Frank: *See*—
Craig, Glenn D., and Gething. 3,033,269.

Gething, Frank, to Cleaner-Brooks Co. Boiler. 3,056,389, 10–2–62, Cl. 122—406.

Getinge Mekaniska Verkstads Aktiebolag: *See*—
Heden, Carl G. 3,022,229.

Getting, Ivan A.: *See*—
Davenport, Lee L., and Getting. 3,053,478.

Gettinger, Alfred: *See*—
Schuster, Karl, and Gettinger. 3,031,539.

Gettys, Charles B., and S. C. Leonard, to United States of America, Navy. Automatic proportional preset of amplifier gain. 3,022,486, 2–20–62, Cl. 340—3.

Getz, Clarence A. Mobile body lift. 3,049,726, 8–21–62, Cl. 5—86.

Getzen, Forrest W., to Jersey Production Research Co. Introduction of fluid into an earth formation. 3,022,827, 2–27–62, Cl. 166—187.

Getzlin, Allan R., to American Air Filter Co., Inc. Filter structure. 3,016,602, 1–16–62, Cl. 29—190.

Getzin, Allan R., to American Air Filter Co., Inc. Gas filter apparatus. 3,016,984, 1–16–62, Cl. 183—73.

Getzin, Allan R., to American Air Filter Co., Inc. Latch assembly for filter housing. 3,063,224, 11–13–62, Cl. 55—86.

Getzin, Allan R., and R. A. Palmore, to American Air Filter Co., Inc. Electrostatic precipitator. 3,041,807, 7–3–62, Cl. 55—43.

Geurts, Cletus J. Spring trip release. 3,032,122, 5–1–62, Cl. 172—264.

Gevaert Photo-Producten N.V.: *See*—
Conix, André J., and Laridon. 3,028,364.
De Ramaix, Maurice A., and Jaeken. 3,047,385.
Gerbaux, Rene C., Lemmerling, and Claes. 3,045,006.
Koerber, Willem K., and Schouteden. 3,047,390.
Sano, Karel M., and Van Landeghem. 3,031,187.
Schouteden, Ferdinand L. 3,063,950.
Schouteden, Ferdinand L. 3,063,951.
Woodcock, Edward C., Cauwe, and Debackere. 3,067,-920.

Gevantman, Lewis H., and J. F. Pestaner, to United States of America, Navy. Method and means of measuring radiation tridirectionally. 3,031,575, 4–24–62, Cl. 250—83.

Gevas, James C., to General Precision, Inc. Analog to digital conversion system. 3,020,535, 2–6–62, Cl. 340—347.

Gevas, James C., to General Precision, Inc. Vertical reference system. 3,051,006, 8–28–62, Cl. 74—5.41.

Gewecke, Theodore H., to American Sterilizer Co. Transfusion set. 3,054,401, 9–18–62, Cl. 128—214.

Gewecke, Theodore H., to Baxter Laboratories, Inc. Parenteral solution equipment and method of using same. 3,056,403, 10–2–62, Cl. 128—214.

Gewerkschaft Eisenhutte Westfalia: *See*—
Dommann, Gunther. 3,019,813.
Herrmann, Helmut. 3,030,087.
Rosler, Wulff. 3,033,542.

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Wittrock, Ludwig. 3,043,480.

Gewickey, Frank L., R. K. Golden, and B. M. Muenzer, to International Business Machines Corp. Information reproducing system. 3,048,327, 8–7–62, Cl. 234—16.

Gewirtz, Arnold, to United States of America, Navy. Means of measuring carrier frequency of modulated signal. 3,025,-467, 3–13–62, Cl. 324—79.

Gewiss, Lucien V. Fluid propelling and filtering apparatus. 3,018,896, 1–30–62, Cl. 210—403.

Gex, Virgil E.: *See*—
Burt, Robert V., Gex, and Bart. 3,041,806.

Gex, Virgil E., and A. Bart. Hot wire cut-off. 3,054,441, 9–18–62, Cl. 156—515.

Gex, Virgil E., and R. L. Kramer, to The Procter & Gamble Co. Sealing soluble film packets. 3,057,127, 10–9–62, Cl. 53—28.

Gey, William A., to United States of America, Navy. Slow burning propellant composition. 3,067,074, 12–4–62, Cl. 149—19.

Geyer, Eugene P.: *See*—
Paluszkiewicz, Richard S., and Geyer. 3,042,416.

Geyer, Hans, and J. Fischer, to Siemens & Halske Aktiengesellschaft, Berlin & Munich. Heat-resistant coil former, especially for electrical relays. 3,019,375, 1–30–62, Cl. 317—158.

Geyer, Howard M., to General Motors Corp. Synchronized actuator. 3,029,659, 4–17–62, Cl. 74—409.

Geyer, Howard M., to General Motors Corp. Multiple actuator assembly. 3,036,472, 5–29–62, Cl. 74—89.

Geyer, Howard M., to General Motors Corp. Power hinge and actuator assembly therefor. 3,036,473, 5–29–62, Cl. 74—89.

Geyer, Howard M., to General Motors Corp. Actuator seal assembly. 3,044,785, 7–17–62, Cl. 277—59.

Geyer, Howard M., to General Motors Corp. Rear wheel suspension system for vehicles. 3,049,359, 8–14–62, Cl. 280—124.

Geyer, Robert L., to Pan American Petroleum Corp. Filtering and display of seismic signals. 3,061,813, 10–30–62, Cl. 340—15.5.

Geyger, William A. Self-balancing flux-gate magnetometer. 3,040,248, 6–19–62, Cl. 324—43.

Geyger, William A., to United States of America, Navy. Magnetic-amplifier multiplying circuits. 3,042,306, 7–3–62, Cl. 235—178.

Geyger, William A. Frequency control circuit for magnetic multivibrator. 3,065,431, 11–20–62, Cl. 331—113.

Geyling, Franz T., to Bell Telephone Laboratories, Inc. Strain gauges and accelerometers. 3,023,627, 3–6–62, Cl. 73—517.

Geyling, Franz T., to Bell Telephone Laboratories, Inc. Stress photometer. 3,041,923, 7–3–62, Cl. 88—14.

Geyser, Albert I., to E. K. Geyser Co. Curtain wall. 3,062,-339, 11–6–62, Cl. 189—34.

Geyser, E. K., Co.: *See*—
Geyser, Albert I. 3,062,339.

Gföll, Walter. Combined protecting cap and pressure gauge assembly for tire valves. 3,063,463, 11–13–62, Cl. 137—228.

Ghione, Mario: *See*—
Arcamone, Federico, Bertazzoll, Ghione, and Scotti. 3,035,147.

Ghiringhelli, Enrico. Equipment for having loose material of any kind and consistency, and filth and sweepings in particular, gathered, rammed and filled into portable containers. 3,065,586, 11–27–62, Cl. 53—124.

Ghiselin, William F., Jr., to Halliburton Co. Stabilized signal and firing circuit for well tools. 3,028,528, 4–3–62, Cl. 317—80.

Ghisoni, Pietro D., to Vita Mayer & Co., Inc. Tail sealing machine. 3,044,532, 7–17–62, Cl. 156—361.

Gholson, Roy L., to Columbian Carbon Co. Carbon black beading process. 3,019,093, 1–30–62, Cl. 23—314.

Ghose, Rabindra N., to Space-General Corp. Geophysical method and apparatus. 3,036,265, 5–22–62, Cl. 324—6.

Giacchetti, Anacleto D., and S. F. Isenberg, to National Video Corp. Implosion panel spacing device. 3,051,782, 8–28–62, Cl. 178—7.82.

Giachino, Marcello T.: *See*—
Fisher, Elton, Christian, and Giachino. 3,054,796.

Giacosa, Dante, and P. S. Baldwin, ½ to Fiat Societa per Azioni, and ½ to said P. S. Baldwin. Hydraulic brake booster. 3,035,415, 5–22–62, Cl. 60—54.6.

Gialanella, Joseph. Carrier for groups of containers. 3,028,-189, 4–3–62, Cl. 294—87.2.

Giammarco, Giuseppe, to Vetrocoke, S.p.A. Method of removing nitrogen oxides from gaseous mixtures. 3,031,258, 4–24–62, Cl. 23—2.

Giammarco, Giuseppe, to Vetrocoke, S.p.A. Method of separating and recovering carbon dioxide from gaseous mixtures. 3,037,844, 6–5–62, Cl. 23—150.

Giampapa, Cirino, and L. Sattarelle, to Hydra-Power Corp. Brake system and novel valve construction therefor. 3,035,871, 5–22–62, Cl. 303—49.

Giangualano, Michael N. Multiple spray apparatus. 3,045,-925, 7–24–62, Cl. 239—306.

Giannetti, Anthony. Automatic stopping device for automobiles. 3,049,188, 8–14–62, Cl. 180—82.

Giannini Controls Corp.: *See*—
Carey, Stuart. 3,048,748.
Howard, Robert C. 3,048,185.
Howard, Robert C. 3,048,759.
Jones, Joel G. 3,069,499.

Giannini, Gabriel M., and A. C. Ducati, to Plasmadyne Corp. Wind tunnel. 3,066,528, 12–4–62, Cl. 73—147.

Giannini, Joseph M., Sr., to The Stanley Works. Releasable hinge latch for bed frames. 3,061,870, 11–6–62, Cl. 16—177.

Giannoccora, Victor M. Film spool inverter. 3,030,044, 4–17–62, Cl. 242—71.2.
Giannone, Thomas J. Target and indicator. 3,057,622, 10–9–62, Cl. 273—102.2.
Giannuzzi, George A., to International Business Machines Corp. Serial numbering printer. 3,049,991, 8–21–62, Cl. 101—93.
Gianoglio, Ermanno, to Luigi Rizzi & C., S.p.A. Device for adjusting the thickness in rotary tannery machines. 3,041,-865, 7–3–62, Cl. 69—42.
Gianola, Salvatore V., to Marbill Co. Ventilated boot. 3,027,-659, 4–3–62, Cl. 36—3.
Gianola, Umberto F., to Bell Telephone Laboratories, Inc. Magnetic memory circuits. 3,040,305, 6–19–62, Cl. 340—174.
Gianola, Umberto F., to Bell Telephone Laboratories, Inc. Electrical control circuits. 3,045,215, 7–17–62, Cl. 340—174.
Gianola, Umberto F., to Bell Telephone Laboratories, Inc. Magnetic memory devices. 3,069,661, 12–18–62, Cl. 340—174.
Gianukos, James V., to Goodman Mfg. Co. Automatic belt training return roller assembly for flexible strand conveyors. 3,058,574, 10–16–62, Cl. 198—202.
Giardini, Armando A., and J. E. Tydings, to United States of America, Army. Pressure and temperature sensing device for high pressure apparatus. 3,067,465, 12–11–62, Cl. 18—16.5.
Gibb, John F., to National Tank Co. Methods and means for forming joints in vessels. 3,036,728, 5–29–62, Cl. 220—73.
Gibbens, Edmond E., and G. W. Louthan, to Lockheed Aircraft Corp. Respiratory device. 3,037,502, 6–5–62, Cl. 128—144.
Gibbins, Leslie B., and R. H. J. Riley, to British Celanese Ltd. Artificial textile products. 3,058,290, 10–16–62, Cl. 57—140.
Gibbon, James, to Kenrick & Jefferson Ltd. Method and means for feeding window envelopes to a folding machine. 3,037,432, 6–5–62, Cl. 93—61.
Gibbons, Edward A., to Allis-Chalmers Mfg. Co. Lash coupling device for an electrical apparatus. 3,030,517, 4–17–62, Cl. 290—4.
Gibbons, Edwin J. Two-ply or multi-ply narrow woven fabrics. 3,045,711, 7–24–62, Cl. 139—408.
Gibbons, Joseph B.: *See*—
Gaynor, Frank A., Gibbons, and Taylor. 3,045,956.
Gibbons, Richard F., and D. L. Hughes, to Federal Pacific Electric Co. Disconnecting switch. 3,041,419, 6–26–62, Cl. 200—48.
Gibbons, Wilson F.: *See*—
Gibson, Walter J., and Gibbons. 3,056,286.
Gibbs, Don F. Voltage drain device. 3,030,552, 4–17–62, Cl. 317—61.
Gibbs, Edward E.: *See*—
Willyoung, David M., and Gibbs. 3,056,055.
Gibbs, Eric G.: *See*—
Jeremy, Louis, Gibbs, and Creager. 3,060,932.
Gibbs, Frederic M. Apparatus for making and stacking concrete blocks. 3,032,851, 5–8–62, Cl. 25—2.
Gibbs, George L., Jr., to General Motors Corp. Coiled flame arrester. 3,018,019, 1–23–62, Cl. 220—88.
Gibbs, Hugh H. to E. du Pont de Nemours and Co. Preparation of fluoroolefins. 3,020,321, 2–6–62, Cl. 260—653.3.
Gibbs, Hugh H., and R. N. Griffin, to E. I. du Pont de Nemours and Co. Fluorocarbon sulfonyl fluorides. 3,041,-317, 6–26–62, Cl. 260—79.3.
Gibbs, Jesse D. Aircraft. 3,041,012, 6–26–62, Cl. 244—17.23.
Gibbs, Joseph P., and R. E. Stanaway, to Consolidated Electrodynamics Corp. Transducer. 3,060,396, 10–23–62, Cl. 338—4.
Gibbs Mfg. & Research Corp.: *See*—
Fink, Jean. 3,056,053.
Gibbs, Thomas B. 3,054,319.
Gibbs, Thomas B. 3,069,957.
Gibbs, Thomas B., and Polasik. 3,068,334.
Krug, William H. 3,049,957.
Ziehlke, Robert J. 3,026,757.
Ziehlke, Robert J. 3,026,758.
Gibbs, Robert C. Trigger finger warmer. 3,031,557, 4–24–62, Cl. 219—19.
Gibbs, Roland P.: *See*—
Koch, Fred C., Beazey, Gibbs, and Love. 3,048,438.
Gibbs, Thomas B., to Gibbs Mfg. & Research Corp. Vibrato mechanism. 3,054,319, 9–18–62, Cl. 84—1.25.
Gibbs, Thomas B., to Gibbs Mfg. & Research Corp. Vibrato device for a musical instrument. 3,069,957, 12–25–62, Cl. 84—1.25.
Gibbs, Thomas B., and J. G. Polasik, to Gibbs Mfg. & Research Corp. Keyboard for electrical instrument. 3,068,334, 12–11–62, Cl. 200—166.
Gibbs, Thomas E., and W. R. Hedeman, to Texas Instruments Inc. Azimuth transfer system. 3,028,598, 4–3–62, Cl. 343—101.
Gibbs, Thomas H.: *See*—
Leaf, James H., Robarts, and Gibbs. 3,049,195.
Gibby, Richard A., H. Kahl, and J. J. Mahoney, Jr., to Bell Telephone Laboratories, Inc. Apparatus for measuring data signal impairment. 3,057,957, 10–9–62, Cl. 178—69.
Gibby, William F.: *See*—
Wedder, Walter O., and Gibby. 3,053,031.
Gibney, Robert D., to Amsted Industries Inc. Slack adjuster housing nut. 3,065,648, 11–27–62, Cl. 74—509.
Gibson, Christian D., to The Raymond Corp. Material handling vehicle. 3,067,839, 12–11–62, Cl. 187—9.
Gibson, Dale C.: *See*—
Rehman, Irving, and Gibson. 3,030,627.
Rehman, Irving, and Gibson. 3,069,511.
Gibson Electric Co.: *See*—
Graves, Herbert C., Jr. 3,034,202.
Hannegan, Raymond C. 3,065,539.
Gibson, Eric J., to Council for Scientific and Industrial Research. Preparation and use of catalysts. 3,051,737, 8–28–62, Cl. 260—449.6.
Gibson, Francis E.: *See*—
Madrzyk, Edmund S., and Gibson. 3,050,991.
Gibson, George M. Clothes dryer. 3,023,514, 3–6–62, Cl. 34—57.
Gibson, George M. Fluid circulating power means for a dishwashing machine. 3,051,182, 8–28–62, Cl. 134—108.
Gibson, George M. Apparatus for washing articles. 3,051,-184, 8–28–62, Cl. 134—183.
Gibson, Glenn J., to Air Reduction Co., Inc. Apparatus for metal spraying. 3,017,119, 1–16–62, Cl. 239—81.
Gibson, Inc.: *See*—
Allers, Larry P. 3,015,247.
Lover, Seth E., and McCarty. 3,069,954.
Gibson, J Lowell, to General Motors Corp. Laundry machine having a door-operated timer. 3,024,638, 3–13–62, Cl. 68—12.
Gibson, James K.: *See*—
Kreigh, Jack R., and Gibson. 3,055,763.
Gibson, James L.: *See*—
Kozak, William W., and Gibson. 3,018,596.
Gibson, James W.: *See*—
Pearson, Charles A., Gibson, and Barthels. 3,063,895.
Gibson, Jefferson C. Fire alarm. 3,036,294, 5–22–62, Cl. 340—227.
Gibson, John C.: *See*—
Leonard, Edward J., Hemel, Tarschisch, Karow, Gibson, and Liston. 3,036,160.
Gibson, John C., to International Telephone and Telegraph Corp. Primary-secondary link-spread crossbar selector system. 3,017,465, 1–16–62, Cl. 179—22.
Gibson, John C., to International Telephone and Telegraph Corp. Translator-supervisory apparatus for telephone system. 3,059,067, 10–16–62, Cl. 179—175.23.
Gibson, Leland W.: *See*—
Dunlap, Charles K., Jr., Gibson, McGee, and Sedberry. 3,064,870.
Gibson, Lloyd H.: *See*—
Wagner, Edward E., and Gibson. 3,060,814.
Gibson Mfg. Co.: *See*—
Gibson, Richard R., and Rhoad. 3,018,363.
Gibson, Oliver E., to Powell Steel Lath Corp. Nailable metal stud. 3,066,772, 12–4–62, Cl. 189—34.
Gibson, Paul: *See*—
Farbak, John E., Gebel, and Gibson. 3,021,221.
Gibson, Paul, J. E. Farbak, and P. D. Murphy, to Swift & Co. Inhibition of wet storage stain. 3,021,228, 2–13–62, Cl. 117—7.
Gibson, Richard R., and G. C. Rhoad, to Gibson Mfg. Co. Lighting fixture. 3,018,363, 1–23–62, Cl. 240—51.11.
Gibson, Robert E., and S. Kagan, to Avco Mfg. Corp. Bridge-stabilized oscillator. 3,042,880, 7–3–62, Cl. 331—110.
Gibson, Van R., Jr., to General Electric Co. Wireless remote control system. 3,047,778, 7–31–62, Cl. 137—138.
Gibson, Walter J., A. M. De Stephen, and E. W. Allardt, to The Babcock & Wilcox Co. Ultrasonic search tube support having multiplicity of follower movements. 3,056,285, 10–2–62, Cl. 73—67.8.
Gibson, Walter J., and W. F. Gibbons, to The Babcock & Wilcox Co. Weld inspection apparatus with two spaced transducers. 3,056,286, 10–2–62, Cl. 73—67.8.
Gibson, Wilfred C., and F. J. Schweitzer, Jr., to Shaffer Tool Works Wedge block, valve gate assembly. 3,023,994, 3–6–62, Cl. 251—3.
Gibson, Wilfred C., R. A. McClintock, and I. O. Miller, to Shaffer Tool Works. Kelly cock. 3,035,640, 5–22–62, Cl. 166—70.
Gibson, Willard C., to Thompson Ramo Wooldridge Inc. Controlled clearance regenerator seal. 3,022,051, 2–20–62, Cl. 257—269.
Gibson, William A.: *See*—
Smith, Donald R., and Gibson. 3,045,635.
Gibson, William H. Storm cellar hatch. 3,069,731, 12–25–62, Cl. 20—19.
Gick, Heinrich: *See*—
Lanz, Karl F., Metzendorf, Turowski, and Gick. 3,023,125.
Lanz, Karl F., Metzendorf, Turowski, and Gick. 3,023,255.
Gidding, Joseph M.: *See*—
Arnold, Ralph A., and Gidding. 3,042,549.
Giddings & Lewis Machine Tool Co.: *See*—
Fitzner, Arthur O. 3,016,778.
Fitzner, Arthur O. 3,040,221.
Fitzner, Arthur O. 3,048,832.
Hollis, John C. 3,027,782.
Johnson, Harold L. 3,060,771.
McCann, Walter L. 3,052,262.
McPerren, Edgar L. 3,049,345.
Moore, Gerald T. 3,032,662.
Moore, Gerald T., Herzberg, and Grossimon. 3,063,015.
Schurger, Garner H. 3,037,429.
Schurger, Garner H., and De Pree. 3,041,940.

Giddings, Sydney A., to American Cyanamid Co. Cyclopentadienyl(hydrocarbo-siloxy)titanium compounds. 3,030,394, 4–17–62, Cl. 260—429.5.

Giddings, Sydney A., to American Cyanamid Co. Cyclopentadienyl(hydrocarbo-thio)titanium compounds. 3,030,395, 4–17–62, Cl. 260—429.5.

Gideon, Victor W. Machine tool. 3,069,936, 12–25–62, Cl. 77—64.

Gidge, Lester, to Nashua Industrial Machine Corp. Expansible shaft. 3,053,467, 9–11–62, Cl. 242—72.

Gieb, John H. Decorative torch. 3,038,064, 6–5–62, Cl. 240—10.

Giebel, Joseph L.: *See*—
Temple, Robert, and E. E., and Giebel. 3,062,260.
Temple, Robert, Giebel, and Temple, E. E. 3,020,871.

Giedt, Warren H.: *See*—
Wickersham, Price D., Rall, and Giedt. 3,028,494.

Giegerich, Bertrand V., to General Electric Co. Factory assembled electrical service package. 3,025,432, 3–13–62, Cl. 317—99.

Giel, George J., to The Bendix Corp. Physical displacement register. 3,050,718, 8–21–62, Cl. 340—203.

Gieleghem, Maurice J. Snap-in type caged nuts. 3,025,897, 3–20–62, Cl. 151—41.74.

Gieles, Joannes P. M., to North American Philips Co., Inc. Device for varying the frequency of an oscillator. 3,061,801, 10–30–62, Cl. 332—23.

Gienger, Edwin B., Jr.: *See*—
Miller, Verle A., Brown, and Gienger. 3,067,180.
Miller, Wilbur A., and Gienger. 3,017,889.

Giepen, Hubert M., to Red Mill Co. Pantograph engraver. 3,068,576, 12–18–62, Cl. 33—23.

Gier, Richard W., and H. Weaver, Jr., to Brillion Iron Works, Inc. Outdoor grill. 3,070,084, 12–25–62, Cl. 126—25.

Gier, Thurman E., to E. I. du Pont de Nemours and Co. Monomers, polymers, and methods for making the same. 3,051,756, 8–28–62, Cl. 260—606.5.

Gierat, Henry L. Fishing plug with water passages. 3,040,465, 6–26–62, Cl. 43—42.06.

Gierczie, Richard P. Water jet-propelled craft. 3,020,872, 2–13–62, Cl. 115—12.

Gierer, Alfred, and W. Mundry, to Behringwerke Aktiengesellschaft. Viral mutation with nitrites. 3,052,606, 9–4–62, Cl. 167—78.

Gierman, Karl E.: *See*—
Hern, John F., and Gierman. 3,063,750.

Gies, Helmut, and W. Happe, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Brüning. Process for the manufacture of fast black dyeings. 3,058,797, 10–16–62, Cl. 8—1.

Gies, Paul E., and R. D. Rumsey, to Houdaille Industries, Inc. Flutter damper. 3,018,854, 1–30–62, Cl. 188—93.

Giese, Carl R.: *See*—
Kuhn, Karl R., and Giese. 3,057,607.

Giese, Emil: *See*—
Maurer, Albrecht, and Giese. 3,066,779.

Giesecke, Günter, to International Standard Electric Corp. Self-clocking system for reading pulses spaced at variable multiples of a fixed interval. 3,069,627, 12–18–62, Cl. 328—34.

Giesecke, Heinrich: *See*—
Goerz, Christian P., and Giesecke. 3,028,492.

Giesecke, Heinrich, to C. P. Goerz. Projecting device for photolithography. 3,054,326, 9–18–62, Cl. 88—57.

Gieselman, Richard F., and H. J. West, to Westinghouse Electric Corp. Flux composition for use prior to galvanizing. 3,030,242, 4–17–62, Cl. 148—23.

Giesen, Johann: *See*—
Conradin, Fritz, Bertossa, and Giesen. 3,030,429.

Gieske, William R., and T. L. Berry, to The Ford Alexander Corp. Fail-safe ignition circuit for detonating explosives in well bores. 3,033,114, 5–8–62, Cl. 102—20.

Gieskieng, David H., to Allis-Chalmers Mfg. Co. Air seal for rotating cylinders such as kilns and the like. 3,042,389, 7–3–62, Cl. 263—32.

Giesse, Robert C., to Ametek, Inc. Cyclone separator. 3,034,647, 5–15–62, Cl. 209—144.

Giesse, Robert C., to Ametek, Inc. Filter cake detector. 3,050,858, 8–28–62, Cl. 33—168.

Giesse, Robert C., R. L. Hull, and A. M. Harp, to Ametek, Inc. Blower with atomizing means. 3,069,091, 12–18–62, Cl. 239—77.

Giffin, Walter L.: *See*—
Lambert, Herbert, and Giffin. 3,032,003.

Gifford, Bruce M., to Plastic Applicators, Inc. Drill stem protector. 3,063,760, 11–13–62, Cl. 308—4.

Gifford, Donald O., to Automatic Electric Laboratories, Inc. Electronic tone generator. 3,065,309, 11–20–62, Cl. 179—84.

Gifford, Richard P.: *See*—
Buesing, Richard T., Gifford, and Shepherd. 3,049,710.

Gifford, Vollie A. Toe nail appliance. 3,032,032, 5–1–62, Cl. 128—81.

Gifford, William E., and H. O. McMahon, to International Business Machines Corp. Pneumatic expansion method and apparatus. 3,045,436, 7–24–62 Cl. 62—6.

Gigandet, Charles. Self-winding watches. 3,067,571, 12–11–62, Cl. 58—82.

Giglio, Michael G.: *See*—
Douchass, Pritchard C., and Giglio. 3,065,152.

Gil Mfg. Co.: *See*—
Toomey, Robert F. 3,043,712.

Giladett, Leo V.: *See*—
Leaman, Audley B., and Giladett. 3,064,538.

Gilbert, A. C., Co.: *See*—
Frisbie, Marshall H. 3,019,556.
Meisenheimer, Daniel T., and Syarto. 3,041,742.
Merchant, Charles J. 3,052,986.
Schumacher, Guy F. 3,025,626.
Smith, William R., and Monaco. 3,024,739.
Smith, William R., and Monaco. 3,054,214.
Smith, William R., Runk, and Kretzmer. 3,067,540.

Gilbert, Alfred G., ½ to C. A. McClure. Hydrocyclones. 3,057,476, 10–9–62, Cl. 209—211.

Gilbert, Alfred R.: *See*—
Cooper, Glenn D., and Gilbert. 3,037,005.

Gilbert Associates Inc.: *See*—
Homan, Robert M. 3,061,276.

Gilbert & Barker Mfg. Co.: *See*—
Mesh, Theodore J. 3,062,994.
Pacey, John J. 3,035,615.
Pacey, John J., and Robinson. 3,050,008.
Rapisarda, Edward D. 3,027,048.
Rapisarda, Edward D. 3,053,414.
Robinson, George D., Jr. 3,021,982.

Gilbert, Bruce, to The Western Co. of North America. Method of initiating fractures in earth formations. 3,058,521, 10–16–62, Cl. 166—42.

Gilbert, Chalmers W., to Westinghouse Air Brake Co. Broken railway wheel flange detectors. 3,021,423, 2–13–62, Cl. 246—169.

Gilbert, Charles E., Sr., and D. Winget, Jr., to Cincinnati Gilbert Machine Tool Co. Slide bearing construction. 3,042,460, 7–3–62, Cl. 308—9.

Gilbert, Dixie E.: *See*—
Schutz, Howard W., and Gilbert. 3,032,446.

Gilbert, Edgar N., and E. F. Moore, to Bell Telephone Laboratories, Inc. Apparatus for utilizing variable length alphabetized codes. 3,016,527, 1–9–62, Cl. 340—347.

Gilbert, Everett E.: *See*—
Beames, Geoffrey H., Gilbert, Richardson, and Veldhuis. 3,034,952.

Gilbert, Everett E., to Allied Chemical Corp. Process of controlling fungi on plants with trichloroisocyanuric acid. 3,068,144, 12–11–62, Cl. 167—33.

Gilbert, Everett E., and P. Lombardo, to Allied Chemical Corp. Chlorobromocarbon and method for combatting fungus therewith. 3,037,906, 6–5–62, Cl. 167—30.

Gilbert, Everett E., and E. J. Rumanowski, to Allied Chemical Corp. Hydrolysis of acetonitrile to acetamide. 3,040,-095, 6–19–62, Cl. 260—561.

Gilbert, Everett E., and E. J. Rumanowski, to Allied Chemical Corp. Herbicidal hexachloroacetone-oil mixture and stabilization thereof. 3,043,674, 7–10–62, Cl. 71—2.3.

Gilbert, Everett E., and E. J. Rumanowski, to Allied Chemical Corp. Preparation of alkanoic acid amides through hydrolysis of alkyl cyanides. 3,062,883, 11–6–62, Cl. 260—561.

Gilbert, Felix, to De Luxe Reading Corp. Toy. 3,060,597, 10–30–62, Cl. 35—12.

Gilbert, Felix, and S. Friedman, to De Luxe Reading Corp. Toy. 3,060,598, 10–30–62, Cl. 35—12.

Gilbert, Francis C., to United States of America, Atomic Energy Commission. Dimension stabilized fixed photographic type emulsion and a method for producing same. 3,025,162, 3–13–62, Cl. 96—50.

Gilbert, George R.: *See*—
Schriesheim, Alan, and Gilbert. 3,045,056.

Gilbert, Gerald: *See*—
Bole, Claude E., and Gilbert. 3,069,347.

Gilbert, Gerald, to United States Steel Corp. Method of recovering useful compounds from anthracene oil. 3,025,-304, 3–13–62, Cl. 260—318.

Gilbert, Gerald, and R. M. Stickel, to United States Steel Corp. Method of separating carbazole from anthracene oil. 3,070,517, 12–25–62, Cl. 202—39.5.

Gilbert, Harry, and G. V. Wootton, to The B. F. Goodrich Co. Method of enhancing the dyeability of vinylidene cyanide interpolymer fibers with organic amines and products resulting therefrom. 3,031,253, 4–24–62, Cl. 8—115.5.

Gilbert, Henry M., Jr. Wheel chock holder. 3,018,996, 1–30–62, Cl. 248—316.

Gilbert, Jack, to United Aircraft Corp. Digital-to-analogue converter. 3,019,426, 1–30–62, Cl. 340—347.

Gilbert, Jeffrey F., and C. N. Rallis, to The Dow Chemical Co. Recovery of mercury from aqueous solutions. 3,039,-865, 6–19–62, Cl. 75—81.

Gilbert, Lyman F., to Bailey Meter Co. Pulverizer control. 3,043,525, 7–10–62, Cl. 241—30.

Gilbert, Lyman F., to Bailey Meter Co. Solids flow meter. 3,064,475, 11–20–62, Cl. 73—231.

Gilbert, Maurice S.: *See*—
Mantell, Stanley, and Gilbert. 3,033,358.

Gilbert & Nash Co.: *See*—
Brown, Harry W. 3,051,363.

Gilbert, Nathan: *See*—
Fredrick, William H. 3,037,659.

Gilbert, Richard L., Jr., to American Cyanamid Co. Novel preparation of alkali metal dicyanamides. 3,052,517, 9–4–62, Cl. 23—78.

Gilbert, Robert G.: *See*—
Everett, Ernest W. J., and Gilbert. 3,044,049.

Gilbert, Roswell W., to Daystrom, Inc. Decoding apparatus. 3,042,912, 7–3–62, Cl. 340—347.
Gilbert, Roswell W., to Daystrom, Inc. Analog-to-digital converter. 3,051,939, 8–28–62, Cl. 340—347.
Gilbert, Roy L., to Dairypak Inc. Container forming apparatus. 3,053,153, 9–11–62, Cl. 93—53.
Gilbert, Walter J., to Syntron Co. Shaft seal. 3,016,251, 1–9–62, Cl. 286—11.
Gilbert, Walter J., Sr., to Syntron Co. Cartridge pressure shaft seal. 3,035,842, 5–22–62, Cl. 277—92.
Gilbertson, Louis M., V. F. Jones, and J. D. Burch. Portable steam cleaner. 3,039,454, 6–19–62, Cl. 126—271.2.
Gilboy, Eric W. F., and W. G. Cameron, to Courtaulds Ltd. Production of coated fabrics. 3,023,482, 3–6–62, Cl. 28—80.
Gilchrist, James G., Jr., to International Minerals & Chemical Corp. Production of potassium hydroxide. 3,063,805, 11–13–62, Cl. 23—184.
Gilchrist, Laurence F. Feedback system testing apparatus. 3,032,711, 5–1–62, Cl. 324—57.
Gilchrist, Reginald S.: *See*—
Mattingly, Denis A. E., and Gilchrist. 3,018,974.
Gilchrist, Reginald S., and D. A. E. Mattingly, to The Klinger Mfg. Co. Ltd. Arrangement for transmitting a rotary drive to and supporting a spindle. 3,040,511, 6–26–62, Cl. 57—77.45.
Gilday, John. Test adapter for aircraft static vent and system. 3,017,764, 1–23–62, Cl. 73—4.
Gildmore Press Ltd.: *See*—
White, John R. 3,054,715.
Gildone, Anthony M., to Buckeye Industries, Inc. Muffler for air cylinders and the like. 3,032,139, 5–1–62, Cl. 181—50.
Giler, Roger R.: *See*—
Baker, Marvin T., and Giler. 3,033,547.
Giler, Roger R., to Sunbeam Equipment Corp. Vacuum furnace. 3,025,044, 3–13–62, Cl. 263—40.
Giles, Cary S., and E. W. Merrill, to W. R. Grace & Co. Filter element formed of pleated paper. 3,043,739, 7–10–62, Cl. 162—283.
Giles, Charles W. Collapsible ladder. 3,061,042, 10–30–62, Cl. 182—195.
Giles, Homer W.: *See*—
Merchant, Charles J. 3,028,780.
Giles, Jeremiah D., and W. R. Julius; said Julius assor. to said Giles. Multiple layer thermal insulation. 3,017,020, 1–16–62, Cl. 206—59.
Giles, John G., to The Motor Industry Research Association. Variable ratio transmission mechanism. 3,055,233, 9–25–62, Cl. 74—687.
Giles, William J.: *See*—
Jaeger, Joseph F., and Giles. 3,017,068.
Giles, William S. Soldering pump. 3,016,854, 1–16–62, Cl. 113—93.
Gilet, William. Motor driven tooth brush. 3,015,833, 1–9–62, Cl. 15—23.
Giletta, Dario: *See*—
Vanzo, Marcello, Giletta, and Pacciarini. 3,035,629.
Vanzo, Marcello, Giletta, and Pacciarini. 3,053,308.
Gilfillan Bros., Inc.: *See*—
Ball, Lloyd D., Cowart, Crane, and Knowlton. 3,056,128.
Davis, Donovan C. 3,049,703.
Davis, Donovan C., and Brown. 3,021,523.
Green, David J., Van Alstyne, Moore, Sanders, Bonness, Noland, and Olson. 3,031,658.
Landee, Robert W., and Cutler. 3,017,628.
Nameth, James F., and Stein. 3,026,517.
Van Alstyne, Alvin G., and Moore. 3,017,105.
Van Alstyne, Alvin G., and Sampson. 3,050,708.
Gilfillan, Edward S.: *See*—
Park, Robert H., Sindeband, and Gilfillan. 3,015,273.
Gilhart, Jack S., to The Babcock & Wilcox Co. Mineral wool blanket having imprinted surface and method of making the same. 3,045,316, 7–24–62, Cl. 28—72.3.
Gilhery, James V. Temperature modulating system for internal combustion turbines and the like. 3,015,937, 1–9–62, Cl. 60—39.66.
Gilkes, Arthur G.: *See*—
Riddell, Robert W. 3,022,955.
Gilkeson, David C.: *See*—
Tibbetts, Raymond E., and Gilkeson. 3,069,972.
Gilkey, John W., to Dow Corning Corp. Composition comprising an aluminum alkoxide and a mixture of siloxanes. 3,046,241, 7–24–62, Cl. 260—29.1.
Gilkey, John W., and E. P. Plueddemann, to Dow Corning Corp. Method of rendering cellulose fabrics water-repellent and crease-resistant. 3,055,774, 9–25–62, Cl. 117—143.
Gilkey, Russell: *See*—
Caldwell, John R., and Gilkey. 3,053,805.
Gilkison, John S.: *See*—
Kooi, Earl R., Harjes, and Gilkison. 3,042,584.
Gill, Alan F. Fish conservation system. 3,062,013, 11–6–62, Cl. 61—1.
Gill, Arthur, to Raytheon Co. Circuits for matching transistorized diodes. 3,040,193, 6–19–62, Cl. 307—88.5.
Gill, Axel: *See*—
Wittlich, Norbert, and Gill. 3,066,650.
Gill, Donald W., to The Frank F. Taylor Co. Play pen. 3,064,277, 11–20–62, Cl. 5—98.
Gill, Edwin R., Jr., to K. W. Flocks. Marker. 3,030,870, 4–24–62, Cl. 94—1.5.
Gill, Edwin R., Jr., to K. W. Flocks. Highways. 3,049,980, 8–21–62, Cl. 94—1.5.
Gill, Everett: *See*—
Gladfelter, Robert F., Faull, and Gill. 3,021,980.
Gill, Harvey M.: *See*—
Gill, John G. and H. M. 3,062,493.
Gill, John C.: *See*—
Bowes, Robert C., and Gill. 3,052,845.
Gill John G. and H. M. Stand for floral displays. 3,062,493, 11–6–62, Cl. 248—150.
Gill, Joseph, and F. W. Sippach, to Hagan Chemicals & Controls, Inc. Relay device for indicating if input digit lies within a predetermined range. 3,019,416, 1–30–62, Cl. 340—149.
Gill, Leo L.: *See*—
Wicken, Oscar M., and Gill. 3,030,091.
Gill, Otto S. Flush type flower vase assembly. 3,044,214, 7–17–62, Cl. 47—41.
Gill, Ray H., to The B. F. Goodrich Co. Method of securing a structure to a tubular rivet in apertured work. 3,030,705, 4–24–62, Cl. 29—526.
Gill, Ronald I., to The General Electric Co. Ltd. Waveguides and methods of bending waveguides. 3,016,081, 1–9–62, Cl. 333—32.
Gill, Sidney: *See*—
Kosewicz, John S., Gill, and Cretney. 3,039,851.
Gillam, Edward D. Packages. 3,067,925, 12–11–62, Cl. 229—44.
Gillard, Ernest J.: *See*—
Gillam, Alex K., and Gillard. 3,043,817.
Gille, Willis H., to Minneapolis-Honeywell Regulator Co. Aircraft control apparatus. 3,031,158, 4–24–62, Cl. 244—77.
Gillemot, George W. Cable splice closure. 3,040,121, 6–19–62, Cl. 174—93.
Gillen, William H.: *See*—
Crumbles, Samuel C., Risch, and Gillen. 3,018,911.
Giller, Arnold, to Chemische Werke Albert. Vulcanizable composition comprising rubber and a resinous complex reaction product of a phenol-formaldehyde condensate and a metal chloride, and process for vulcanizing same. 3,056,754, 10–2–62, Cl. 260—3.
Giller, Robert H. Cordline connector for medical headlight assembly. 3,017,469, 1–16–62, Cl. 200—52.
Gilles, Jean-Marie F.: *See*—
Van Cakenberghe, Jean L., and Gilles. 3,039,896.
Gilles, Jean-Marie F., and J. L. van Cakenberghe, to Union Carbide Corp. Process for the production of large semiconductor crystals. 3,065,112, 11–20–62, Cl. 117—200.
Gilles, Richard C., to The Polymer Corp. Polyamide oxidation inhibiting processes and resulting products. 3,019,-210, 1–30–62, Cl. 260—45.7.
Gillespie, Charles N., to United States of America, Army. Secret telegraph system. 3,036,156, 5–22–62, Cl. 178—22.
Gillespie-Rogers-Pyatt Co.: *See*—
Cockeram, Herbert S. 3,015,639.
Gillespie, Sidney L., to Woodward Governor Co. Governor for turbo-supercharged prime movers. 3,049,867, 8–21–62, Cl. 60—13.
Gillespie, Warren, Jr., N. M. Hatcher, and R. J. Guillotte, to United States of America, National Aeronautics and Space Administration. Infrared scanner. 3,038,077, 6–5–62, Cl. 250—83.3.
Gillessen, Josef L., to Maschinenfabrik Peter Pfenningsberg G.m.b.H. Washing machine with improved agitation. 3,066,521, 12–4–62, Cl. 68—23.
Gillet, William J.: *See*—
Cleminshaw, William T., and Gillet. 3,024,045.
Gillett, Frank L., to Armco Steel Corp. Cable anchor. 3,056,-287, 10–2–62, Cl. 73—143.
Gillette, Allen K., and G. A. Patterson, to Perfection Mfg. Corp. Automatic shutoff device for a milking apparatus. 3,029,786, 4–17–62, Cl. 119—14.54.
Gillette Co., The: *See*—
Brunner, Matthew J., Finkelstein, and Hibnick. 3,019,-162.
De Mytt, Louis E., and Hsiung. 3,066,077.
Hsiung, Du Y. 3,064,045.
Muros, Joseph. 3,056,199.
Nissen, Warren I. 3,025,598.
Nissen, Warren I. 3,050,852.
Oberstar, Helen E., and Safianoff. 3,030,968.
Reed, Raymond E. 3,019,796.
Safianoff, Albert. 3,018,012.
Snape, Alfred L. 3,025,958.
Snape, Alfred L. 3,025,968.
Gillette, Frank N., to General Precision, Inc. Side viewing radar display. 3,039,091, 6–12–62, Cl. 343—5.
Gilliam, Charles M.: *See*—
Bartels, William G., and Gilliam. 3,068,476.
Gilliam, Johannes: *See*—
Berberich, Erich, Gilliam, and Frowein. 3,022,803.
Gilliam, John, Equipment Co., Inc.: *See*—
Gilliam, John W., Jr. 3,057,489.
Gilliam, John W., Jr., to John Gilliam Equipment Co., Inc. Case positioning body for trucks. 3,057,489, 10–9–62, Cl. 214—83.36.
Gilliard, David S. A.: *See*—
Wilson, Frederick J., and Gilliard. 3,055,219.
Wilson, Frederick J., and Gilliard. 3,066,538.
Gilliatt, Hubert K.: *See*—
Gilliatt, Oliver M., H. K. and J. T. 3,032,085.

Gilliatt, John T. : *See*—
Gilliatt, Oliver M., H. K. and J. T. 3,032,085.
Gilliatt, Oliver M., H. K. and J. T. Nut cracking machine. 3,032,085, 5–1–62, Cl. 146—8.
Gillick, Thomas J., Jr., and A. C. Wrotnowski, to American Felt Co. Filter cartridges. 3,064,820, 11–20–62, Cl. 210—488.
Gillick, Thomas J., Jr., A. C. Wrotnowski, and H. G. Hencken, to American Felt Co. Filter cartridges. 3,050,191, 8–21–62, Cl. 210—485.
Gillick, Thomas J., Jr., H. G. Hencken, and A. C. Wrotnowski, to American Felt Co. Filter cartridge. 3,050,193, 8–21–62, Cl. 210—494.
Gillies, Donald B. : *See*—
Strachey, Christopher, and Gillies. 3,017,090.
Strachey, Christopher, and Gillies. 3,017,094.
Gillilad, Hall E. : *See*—
Schmunk, John D., and Gillilad. 3,035,469.
Gilliland, Darrell V. Optimum automatic transmission and control means. 3,023,568, 3–6–62, Cl. 60—12.
Gilliland, Edwin R. : *See*—
Hemminger, Charles E., and Gilliland. 3,046,106.
Gilliland, Hall E. : *See*—
Schmunk, John D., and Gilliland. 3,050,198.
Gilliland, Harry J., and D. W. Jones, to General Motors Corp. Metal spraying apparatus. 3,056,558, 10–2–62, Cl. 239—83.
Gilliland, Ralph G. : *See*—
Donnelly, Ralph G., Gilliland, and Slaughter. 3,022,162.
Gilliland, Ralph G., P. Patriarca, G. M. Slaughter, and L. C. Williams, to United States of America, Atomic Energy Commission. Zirconium-titanium-beryllium brazing alloy. 3,038,249, 6–12–62, Cl. 29—494.
Gilliland, William H., to USCO Power Equipment Corp. Circuit element removal equipment. 3,062,936, 11–6–62, Cl. 200—114.
Gillingham, James M., to Parke, Davis & Co. Process for the resolution of optically active acid. 3,028,395, 4–3–62, Cl. 260—319.
Gillingham, James M., to Parke, Davis & Co. Process for the production of optically active isomers of amphetamine. 3,028,430, 4–3–62, Cl. 260—570.8.
Gilliom, Robert W. : *See*—
Worsham, James E., and Gilliom. 3,068,644.
Gillis, Randall, to Western Electric Co., Inc. Color coded cable. 3,020,335, 2–6–62, Cl. 174—112.
Gillman, Edward T. : *See*—
Basile, Gene E., and Gillman. 3,042,140.
Gillman, Harold K., to Cashin, Inc. Measuring and segregating apparatus. 3,027,924, 4–3–62, Cl. 146—94.
Gillois, Jean, and H. W. Gehlen, to H. W. Gehlen. Self propelling sectional floating bridge. 3,021,544, 2–20–62, Cl. 14—27.
Gillon, James H., to Carron Products Co. Bottle stopper. 3,025,991, 3–20–62, Cl. 215—56.
Gillpatrick, Sherman R. Furniture lift. 3,066,967, 12–4–62, Cl. 294—16.
Gillum, Ray F. Paint dryer. 3,034,498, 5–15–62, Cl. 126—271.2.
Gilman Brothers Co., The : *See*—
Kurhan, Maurice. 3,027,286.
Gilman, Charles B., and C. J. De Caro, to Olin Mathieson Chemical Corp. Explosive hole forming apparatus. 3,041,981, 7–3–62, Cl. 89—1.5.
Gilman, Frederick G., to Worthington Corp. Impeller tip pocket. 3,027,845, 4–3–62, Cl. 103—103.
Gilman, George W., G. A. Pullis, and E. G. Spack, to Bell Telephone Laboratories, Inc. Transmission control in two-way signaling systems. 3,069,501, 12–18–62, Cl. 179—2.
Gilman, Warren C., to Universal Recorders of California, Inc. Electronic cue inserter. 3,027,430, 3–27–62, Cl. 179—100.1.
Gilmer, Graham, Jr., and F. W. Dohr. Terrestrial globe, and method of manufacturing the same. 3,055,124, 9–25–62, Cl. 35—46.
Gilmont, Roger, to Manostat Corp. Pressure setting and holding device. 3,035,600, 5–22–62, Cl. 137—247.
Gilmore, Chace D. Die assembly and attachments for automatic doughnut-making machines. 3,023,715, 3–6–62, Cl. 107—14.
Gilmore, Chace D. Cutter disks for reciprocating doughnut formers. 3,052,193, 9–4–62, Cl. 107—14.
Gilmore, Chace D. Cutter disks for reciprocating doughnut formers. 3,052,194, 9–4–62, Cl. 107—14.
Gilmore, Chace D. Flexible cutter disks for making crescent doughnuts. 3,052,195, 9–4–62, Cl. 107—14.
Gilmore, Chace D. Seal bearing rings for doughnut cutters. 3,052,196, 9–4–62, Cl. 107—14.
Gilmore, Dale T., to Sonneman Products, Inc. Popped corn forming machine and method. 3,029,751, 4–17–62, Cl. 107—16.
Gilmore, Forrest E., to Phillips Petroleum Co. Method and apparatus for vaporizing liquefied gases and obtaining power. 3,018,634, 1–30–62, Cl. 62—52.
Gilmore, Forrest E., to Phillips Petroleum Co. Process and arrangement of apparatus for production of mixtures of carbon oxides and hydrogen. 3,024,097, 3–6–62, Cl. 48—206.
Gilmore, Guy T., to Gilmore Industrial Grinders, Inc. Grinding machine. 3,069,819, 12–25–62, Cl. 51—245.
Gilmore Industrial Grinders, Inc. : *See*—
Gilmore, Guy T. 3,069,819.
Gilmore, Samuel E., to Fluid Mechanics, Inc. Plastic seal ring valve. 3,027,911, 4–3–62, Cl. 137—469.
Gilmore, William J. : *See*—
Bratz, Otto J., and Gilmore. 3,021,722.
Gilmour, Robert A. Spray nozzle. 3,045,927, 7–24–62, Cl. 239—458.
Giloth, Paul K., to United States of America, Navy. Vectoring phase simulator. 3,034,228, 5–15–62, Cl. 35—10.2.
Gilpin, William C. : *See*—
Booth, Cyril, Hedley, and Gilpin. 3,067,049.
Gilreath, Lafayette E., to Halliburton Co. Hydraulic winch control. 3,064,778, 11–20–62, Cl. 192—61.
Gilreath, Lafayette E., to B. M. Craig and M. Wallace. Method and apparatus for testing casing. 3,048,998, 8–14–62, Cl. 73—40.5.
Gilreath, Roy U., and A. R. Settlemire. Shoe guard. 3,068,594, 12–18–62, Cl. 36—72.
Gilroy, John, and L. G. Schlimgen, Jr., to Air Reduction Co., Inc. Respirator apparatus and method. 3,033,195, 5–8–62, Cl. 128—29.
Gilruth, Robert R. : *See*—
Wennagel, Glenford J., and Gilruth. 3,044,432.
Gilson, Joseph H. : *See*—
Himka, John, Probst, Gilson, and Carpenter. 3,024,062.
Gilson, Robert J. : *See*—
Wickham, Alfred H., and Gilson. 3,026,046.
Gilson, Robert J., to Charles Colston Ltd. Washing machine. 3,049,132, 8–14–62, Cl. 134—57.
Gilson, Wallace H. : *See*—
Hough, Frank G., Peterson, and Gilson. 3,047,170.
Gilson, William D. : *See*—
Fortining, Warren W., Gilson, and Manteuffel. 3,043,773.
Gilstrap, Aretta E. Seed dispenser. 3,018,926, 1–30–62, Cl. 222—193.
Ginaven, Marvin E., to The Baur Bros. Co. Dewatering device and pressure feeder. 3,021,782, 2–20–62, Cl. 100—146.
Ginaven, Marvin E., to The Bauer Bros. Co. Disc mill. 3,040,996, 6–26–62, Cl. 241—251.
Ginaven, Marvin E., to The Bauer Brothers Co. Fiberizing press. 3,055,291, 9–25–62, Cl. 100—117.
Ginaven, Marvin E., to The Bauer Bros. Co. Fiber refiner. 3,055,598, 9–25–62, Cl. 241—57.
Ginaven, Marvin E., to The Bauer Bros. Co. Flow restrainer. 3,064,557, 11–20–62, Cl. 100—148.
Ginder, Raymond M. Oil motor. 3,017,868, 1–23–62, Cl. 121—164.
Gindi, Abe M., to International Business Machines Corp. Frequency pulse generator for producing steep edge output pulses. 3,054,967, 9–18–62, Cl. 331—75.
Gindroz, Frank H., Jr., to Electronic Specialty Co. Automatic transmission. 3,037,399, 6–5–62, Cl. 74—752.
Gindsberg, Joseph, to Raytheon Co. Ferrite modulators. 3,036,277, 5–22–62, Cl. 332—16.
Ginger, Leonard G., and N. J. Kartinos, to Baxter Laboratories, Inc. Fatty acid salts. 3,055,923, 9–25–62, Cl. 260—404.
Gingher, Carl E. Clothes hanger. 3,052,390, 9–4–62, Cl. 223—88.
Gingher, Carl E., and C. E. Gingher, Jr., to Gingher Mfg. Co. Wardrobe rack. Re. 25,156, 4–10–62, Cl. 211—148.
Gingher, Carl E., and C. E. Gingher, Jr., to Gingher Mfg. Co. Display unit. 3,040,905, 6–26–62, Cl. 211—148.
Gingher, Carl E., and C. E. Gingher, Jr., to Gingher Mfg. Co. Clipping arrangement. 3,046,041, 7–24–62, Cl. 287—58.
Gingher, Carl E., Jr. *See*—
Gingher, Carl E., and C. E. Gingher, Jr. Re. 25,156.
Gingher, Carl E., and C. E. Gingher, Jr. 3,040,905.
Gingher, Carl E., and C. E. Gingher, Jr. 3,046,041.
Gingher Mfg. Co. : *See*—
Gingher, Carl E., and C. E. Gingher, Jr. Re. 25,156.
Gingher, Carl E., and C. E. Gingher, Jr. 3,040,905.
Gingher, Carl E., and C. E. Gingher, Jr. 3,046,041.
Ginilewicz, Wlodek L. : *See*—
Wakeman, Reginald L., and Ginilewicz. 3,063,870.
Gink, Arnold H. Gripping device for pencil and the like. 3,056,180, 10–2–62, Cl. 24—10.
Ginn, Clarence M. : *See*—
Hawkes, Howard T., Ginn, and Sabasteanski. 3,017,041.
Ginn, Martin E., to Monsanto Chemical Co. Liquid detergent gel compositions having stability against separation. 3,060,124, 10–23–62, Cl. 252—135.
Ginnette, Lewis F. : *See*—
Morgan, Arthur I., Graham, and Ginnette. 3,031,312.
Morgan, Arthur I., Jr., and Ginnette. 3,064,722.
Morgan, Arthur I., Jr., Ginnette, and Graham. 3,031,313.
Ginnings, William H., Jr. : *See*—
Ayton, William R., Ginnings, and Hocking. 3,020,636.
Ginsberg, Samuel. Vehicle traction device. 3,069,090, 12–18–62, Cl. 238—14.
Ginsburgh, Irwin : *See*—
Kapff, Sixt F., and Ginsburgh. 3,021,199.
Lewis, Lloyd G., Whitesell, and Ginsburgh. 3,037,123.
Ginther, Robert J., to United States of America, Navy. Radiation sensitive glass containing trivalent cerium. 3,032,428, 5–1–62, Cl. 106—47.
Ginzel, Gunter : *See*—
Hotop, Werner, Meese, Masjoshusmann, Bohle, and Ginzel. 3,039,390.
Gioia, Anthony J. : *See*—
Bockemuehl, Robert R., and Gioia. 3,067,610.
Gioia, Nicola J., to M. Belkin. Beverage container packaging carbon. 3,059,828, 10–23–62, Cl. 229—28.

Gioia, Nicola J., to M. Belkin. Carton and handle structure therefor. 3,065,876, 11–27–62, Cl. 220—105.

Gion, Leon, to Pechiney, Compagnie de Produits Chimiques et Electrometallurgiques. Process for producing sintered beryllium oxide and resultant products. 3,067,048, 12–4–62, Cl. 106—58.

Giordano, Anthony. Preparation of mercuric sulfide. 3,061,412, 10–30–62, Cl. 23—134.

Giordano, Francis A.: *See*—
Singer, Edward N., and Giordano. 3,069,569.

Giordano, Joseph, to The Sherwin-Williams Co. Methods and apparatus for producing multi-component surface coatings. 3,027,096, 3–27–62, Cl. 239—304.

Giorgini, Norman L.: *See*—
Kotz, Arthur R., Appeldorn, Grieshaber, Peterson, and Giorgini. 3,056,904.

Giovannucci, Julius L.: *See*—
King, Paul A., and Giovannucci. 3,068,565.

Giovinazzo, Anthony. Cable anchor clevis. 3,044,812, 7–17–62, Cl. 287—91.

Giovinazzo, Anthony. Downhaul cable anchor assembly. 3,059,605, 10–23–62, Cl. 114—16.7.

Giraitis, Albert P.: *See*—
Axtell, William R., Bingeman, and Giraitis. 3,067,227.

Giraitis, Albert P., to Ethyl Corp. Complex organometallic compounds. 3,030,400, 4–17–62, Cl. 260—448.

Giraitis, Albert P., and H. E. Podall, to Ethyl Corp. Manufacture of manganese carbonyl. 3,028,220, 4–3–62, Cl. 23—203.

Girard, André, to Roussel-UCLAF, S.A. Novel derivatives of phenoxazine and processes for their preparation. 3,048,583, 8–7–62, Cl. 260—244.

Girard, Andre R. M.: *See*—
Chereau, Andre G., Girard, and Maingault. 3,045,335.

Girard, Arnold T. Machine for producing wood particles. 3,025,895, 3–20–62, Cl. 144—172.

Girard, Edmond P. Tube closure. 3,036,747, 5–29–62, Cl. 222—507.

Girard, Jean R. M. Light control device for cameras. 3,059,526, 10–23–62, Cl. 88—16.

Girard, Marc L. J.: *See*—
Peto, Fernand, and Girard. 3,043,873.

Girard, Peter F., to The Ryan Aeronautical Co. Delta wing heliplane. 3,025,022, 3–13–62, Cl. 244—7.

Girard, Theodore A.: *See*—
Stewart, William J., and Girard. 3,036,022.

Girard, Theodore A., and E. C. Slaght, to Heyden Newport Chemical Corp. Neopentyl glycol esters. 3,048,608, 8–7–62, Cl. 260—404.8.

Girardot, Peter R. Composite ceramic-metal bodies and methods for the preparation thereof. 3,031,340, 4–24–62, Cl. 117—118.

Giraudan Corp., The: *See*—
Erickson, Julius L. E., and Woskow. 3,061,649.
Manowitz, Milton, and Gump. 3,061,469.

Girardi, Giorgio, to Schweizerische Industrie-Gesellschaft. Apparatus for folding the end closure of a package. 3,026,663, 3–27–62, Cl. 53—379.

Giraudo, Georges E. Fuses operating optically in the vicinity of the target. 3,055,303, 9–25–62, Cl. 102—70.2.

Girault, Pierre: *See*—
Allais, André, and Girault. 3,032,568.
Allais, Andre, and Girault. 3,058,992.
Allais, Andre, Girault, and Vesterman. 3,056,721.

Giravions Dorand: *See*—
Aubert, Pierre C. 3,026,615.

Girden, Barney B. Device for catching fish and other submarine life. 3,018,579, 1–30–62, Cl. 43—4.

Girden, Barney B. Mask. 3,020,911, 2–13–62, Cl. 128—141.

Gire, Etienne Y. J. M.: *See*—
Eggers, Gerhard, Ernst, Gire, and Tremouilles. 3,036,430.

Girinsky, Anatole, and P. C. A. Bacot, to International Standard Electric Corp. Frequency modulation system. 3,051,786, 8–28–62, Cl. 178—66.

Girling Ltd.: *See*—
Davis, John W. 3,060,691.
Edwards, Roy E. 3,033,320.
Kings, Leonard W. 3,059,671.
Tompkin, John B. 3,060,897.

Girling, Sidney S. Collapsible stool. 3,023,046, 2–27–62, Cl. 297—156.

Girod, Emil: *See*—
Denss, Rolf, Girod, and Hafliger. 3,031,465.
Eugster, Conrad H., Denss, Häfliger, and Girod. 3,024,252.
Eugster, Conrad H., Denss, Hafliger, and Girod. 3,041,355.

Girodet, Henri M. Garter buckle. 3,037,257, 6–5–62, Cl. 24—246.

Girolame, Cosma: *See*—
Girolame, Joseph and C. 3,028,828.

Girolame, Joseph and C. Flotation device for ships. 3,028,828, 4–10–62, Cl. 114—68.

Girouard, Lucien: *See*—
Schneider, Frederick, and Girouard. 3,045,110.

Giroud-Abel, André to Societe Lipha. Toxic bait. 3,032,915 5–8–62, Cl. 43—131.

Giroux, Roger N.: *See*—
Calbert, Harold E., Swanson, and Giroux. 3,054,674.

Girtanner, Viktor. Highly lustrous plastic sheet material and a process of making same. 3,050,428, 8–21–62, Cl. 156—30.

Girton Mfg. Co., Inc.: *See*—
Girton, Paul K. 3,033,121.

Girton, Paul K., to Girton Mfg. Co., Inc. Pump housing. 3,033,121, 5–8–62, Cl. 103—103.

Girton, Preston E., to Kirkhof Mfg. Corp. Water cooled welding transformer. 3,024,431, 3–6–62, Cl. 336—62.

Gish, Henry J., to Stewart Sand & Material Co. Sand skimmer. 3,043,430, 7–10–62, Cl. 209—464.

Gish, Lyman C., to Packaging Corp. of America. Bottle carrier. 3,037,661, 6–5–62, Cl. 220—113.

Gish, Lyman C., to Packaging Corp. of America. Bottle carrier. 3,037,662, 6–5–62, Cl. 220—115.

Gisholt Machine Co.: *See*—
Eddison, William B., and Erickson. 3,029,499.
Fibikar, Robert J. 3,033,041.
Fibikar, Robert J., and Senger. 3,024,661.
Johnson, Charles H. 3,015,976.

Gisiger-Stähli, Josef, and H. Benn. Wrist carried radio set. 3,032,651, 5–1–62, Cl. 250—14.

Gist, Fred M. Well bore scratcher. 3,018,831, 1–30–62, Cl. 166—173.

Gistl, Alois: *See*—
Berger, Leopold M., and Gistl. 3,038,162.

Githens, Richard E., Jr., and J. R. Powers, to E. I. du Pont de Nemours and Co. Strand-treating apparatus. 3,031,770, 5–1–62, Cl. 34—68.

Gits Bros. Mfg. Co.: *See*—
Andresen, Hilmar A. 3,020,979.
Andresen, Hilmar A. 3,028,930.
Gits, Edward C. 3,015,371.
Gits, Remi J. 3,020,052.

Gits, Edward C., to Gits Bros. Mfg. Co. Level regulator. 3,015,371, 1–2–62, Cl. 184—103.

Gits, Edward W.: *See*—
Andresen, Hilmar A. and R. H. 3,026,114.

Gits, Joseph A.: *See*—
Gits, Jules P. 3,031,722.

Gits, Jules P., ½ to J. A. Gits. Methods of making molded articles. 3,031,722, 5–1–62, Cl. 18—59.

Gits, Remi J., to Gits Bros. Mfg. Co. Shaft seal. 3,020,052, 2–6–62, Cl. 277—89.

Gits, Remi J., Jr.: *See*—
Andresen, Hilmar A. and R. H. 3,026,114.

Gittleman, Ralph, to Maxson Electronics Corp. Transistorized automatic gain control circuit. 3,030,022, 4–17–62, Cl. 235—195.

Gittus, John H., and R. M. Cook, to The International Nickel Co., Inc. Alloys with a nickel-chromium base. 3,065,072, 11–20–62, Cl. 75—171.

Gitzinger, Harry F., to The B. F. Goodrich Co. Tire building method and apparatus. 3,027,289, 3–27–62, Cl. 156—132.

Giudicelli, Don P. R. L., and H. Najer, to Les Laboratories Dausse. α-piperidino-α-phenyl-N-cyclohexyl acetamide. 3,033,869, 5–8–62, Cl. 260—294.

Giuffre, Anthony A. Clothes drying device. 3,064,358, 11–20–62, Cl. 34—54.

Giuliano, Angelo. Toy rocket. 3,032,918, 5–8–62, Cl. 46—1.

Giunta, Erasmo: *See*—
Manenti, Ciriaco, and Giunta. 3,064,641.

Giusti, George R.: *See*—
Erickson, Edward B., Jacobsen, Giusti, Merrill, and Smith. 3,053,400.

Givaudan Corp., The: *See*—
Eschinazi, Habib E. 3,019,263.
Eschinazi, Habib E. 3,019,264.
Eschinazi, Habib E. 3,019,265.
Eschinazi, Habib E. 3,052,729.
Eschinazi, Habib E. 3,052,730.
Eschinazi, Habib-Emile. 3,023,244.
Eschinazi, Habib-Emile. 3,050,566.
Kitchens, Garry C., and Wood. 3,057,914.

Given, Bertram, and W. Peglow, to Waste King Corp. Dishwasher with controls in door. 3,064,662, 11–20–62, Cl. 134—95.

Giza, Adolf E.: *See*—
Giza, Edwin S. 3,061,310.

Giza, Edwin S., 50% to A. E. Giza. Hollow headed golf putter. 3,061,310, 10–30–62, Cl. 273—78.

Gjertsen, Paul R. Honing tool. 3,060,648, 10–30–62, Cl. 51—184.3.

Gjertsen, Paul R. Honing device for cylinders. 3,066,455, 12–4–62, Cl. 51—184.2.

Gjertsen, Paul R. Machine for testing hardness and wear characteristics of abrasive materials. 3,069,892, 12–25–62, Cl. 73—7.

Glab, William T., to Caradco Inc. Methods of making a lignocellulose product and products resulting therefrom. 3,033,695, 5–8–62, Cl. 106—163.

Glabe, Elmer F.: *See*—
Lilien, Kazimir K., and Glabe. 3,037,865.

Glaberson, Louis, to General Electric Co. Control device. 3,030,475, 4–17–62, Cl. 200—140.

Glaceries de la Sambre Societe Anonyme, Les: *See*—
Laverdisse, Edmond. 3,042,279.
Laverdisse, Edmond. 3,067,549.

Glaces De Boussois: *See*—
Murphy, Norman, and Ciceri. 3,050,906.

Glacier Metal Co. Ltd., The: *See*—
Burke, Anthony E. 3,060,720.
Love, Phil P. 3,029,111.
Love, Phil P. 3,033,313.

Gladden, Robert S., Jr.: *See*—
Rushton, Frederick N., and Gladden. 3,067,843.
Gladding, Edward K., and J. L. Nyce, to E. I. du Pont de Nemours and Co. Ethylene sulfur-curable terpolymers of a 2-alkylnorbornadiene, ethylene and an alpha-olefin. 3,063,973, 11–13–62, Cl. 260—79.5.
Gladding, McBean & Co.: *See*—
Anderson, William D., Brandt, Le Clercq, and Fargo. 3,016,598.
Compton, Max D. 3,047,418.
Stahlmann, John A. 3,060,608.
Gladfelter, Robert F., J. T. Faull, and E. Gill, to Detroit Power Screwdriver Co. High speed parts feeder. 3,021,980, 2–20–62, Cl. 221—167.
Gladrow, Elroy M.: *See*—
Kimberlin, Charles N., Jr., and Gladrow. 3,067,128.
Gladrow, Elroy M., E. V. Ruhnke, and C. N. Kimberlin, Jr., to Esso Research and Engineering Co. Process for preparing attrition resistant adsorbents. 3,055,841, 9–25–62, Cl. 252—455.
Gladstone, Lewis. Loudspeaker system. 3,026,957, 3–27–62, Cl. 181—31.
Glaeser, George L., Jr.: *See*—
Hamren, Victor E., and Glaeser. 3,030,983.
Glahe, Frederick W., to Wilson Athletic Goods Mfg. Co., Inc. Auxiliary protective extension for baseball masks and the like. 3,041,623, 7–3–62, Cl. 2—9.
Glaister, Raymond M., to National Research Development Corp. Dielectric ceramic compositions and the method of production thereof. 3,028,248. 4–3–62, Cl. 106—39.
Glamann, Wihelm. Displacement compressors. 3,058,652, 10–16–62, Cl. 230—138.
Glamann, Wilhelm, to Differential-Diesel-(Vaduz, Furstentum Liechtenstein). Differential gear driven supercharger for internal combustion engines. 3,062,001, 11–6–62, Cl. 60—13.
Glanton, Alfred R.: *See*—
Morgan, Henry C., and Glanton. 3,062,145.
Glas, Helmut, to Auto Union G.m.b.H. Vehicle door. 3,055,700, 9–25–62, Cl. 296—49.
Glas, Maurus. Hydraulic press. 3,021,802, 2–20–62, Cl. 113—45.
Glasbrenner, Stanley N., to Armstrong Cork Co. Safety closure. 3,055,524, 9–25–62, Cl. 215—9.
Glascoff, Walter G. Fishing tackle bucket. 3,022,600, 2–27–62, Cl. 43—54.5.
Glaser Bros.: *See*—
Glaser, Marcus. 3,051,319.
Glaser, David: *See*—
Wolfe, Roger W., and Glaser. 3,028,520.
Glaser, David, to Burroughs Corp. Pulse generating circuits. 3,022,442, 2–20–62, Cl. 315—8.5.
Glaser, David, to Burroughs Corp. Magnetron tube. 3,032,678, 5–1–62, Cl. 315—8.
Glaser, David, and A. Somlyody, to Burroughs Corp. Magnetron tube. 3,031,594, 4–24–62, Cl. 313—157.
Glaser, David, and J. R. Bethke, to Burroughs Corp. Counter circuit and optional count indicator. 3,064,160, 11–13–62, Cl. 315—8.6.
Glaser, David W.: *See*—
Floyd, Don E., and Glaser. 3,037,871.
Glaser, Donald A.: *See*—
Didde, Carl W., and Glaser. 3,019,013.
Didde, Carl W., and Glaser. 3,034,476.
Glaser, Donald A., and L. C. Warren, to Didde-Glaser, Inc. Self-centering parallel guide assembly. 3,061,303, 10–30–62, Cl. 271—61.
Glaser, Ernest, and R. T. Schenck, to Continental Can Co., Inc. Soot prevention device for flame curing enameled plate. 3,056,382, 10–2–62, Cl. 118—47.
Glaser, Hellmut L., to Owens-Corning Fiberglas Corp. Method and apparatus for melting and feeding heat-softenable materials. 3,028,442, 4–3–62, Cl. 13—6.
Glaser, Hellmut L., to Owens-Corning Fiberglas Corp. Method and apparatus for melting and feeding heat-softenable materials. 3,048,640, 8–7–62, Cl. 13—6.
Glaser, Hellmut L., to Owens-Corning Fiberglas Corp. Method and apparatus for heat conditioning and feeding heat-softenable materials. 3,056,846, 10–2–62, Cl. 13—6.
Glaser, Jerry, to The Garrett Corp. Compression spring. 3,042,391, 7–3–62, Cl. 267—1.
Glaser, John L., to Bell Telephone Laboratories, Inc. Reduction of quantizing error in quantized transmission systems. 3,048,781, 8–7–62, Cl. 178—43.5.
Glaser, Kurt F.: *See*—
De Ridder, Ernst J., and Glaser. 3,062,264.
Glaser, L. Chester: *See*—
Seiler, William. 3,027,637.
Glaser, Marcus, to Glaser Bros. Merchandise display stand. 3,051,319, 8–28–62, Cl. 211—133.
Glaser, Marvin B.: *See*—
Luring, William S., Glaser, Foust, and Soltis. 3,060,921.
Glaser, Peter S., J. F. Hudson, W. G. Edwards, and S. N. Porter, to The National Cash Register Co. Information number and control system. 3,040,985, 6–26–62, Cl. 235—153.
Glaser, Raymond A., B. Strauss, and G. Weinstein, to Electro Development Corp. Indicating instrument anti-friction device. 3,062,057, 11–6–62, Cl. 73—432.
Glasgow, Clarence O.: *See*—
Walker, Jay P., and Glasgow. 3,021,709.
Glasgow, Clarence O., to National Tank Co. Cam. 3,045,506, 7–24–62, Cl. 74—568.
Glasgow, Clarence O. Supplemental drive for vehicles. 3,057,427, 10–9–62, Cl. 180—44.
Glasgow, Clarence O., to National Tank Co. Fluid operated pump. 3,070,023, 12–25–62, Cl. 103—51.
Glasgow, James S., and R. H. Kerr, to The Steel Products Engineering Co. Drive system. 3,034,619, 5–15–62, Cl. 192—7.
Glasoe, Karl M., Jr., to Thorpe Insulation Co. Insulated structure. 3,016,999, 1–16–62, Cl. 189—85.
Glasrock Products, Inc.: *See*—
North, John W. 3,059,296.
Glass, Cecil A.: *See*—
Rumpp, Norman L., Glass, and Chung. 3,054,353.
Glass, Cecil A., to United States of America, Navy. Dual thrust rocket booster tube. 3,035,796, 5–22–62, Cl. 244—122.
Glass, Clifford A.: *See*—
Parshall, Bert B., and Glass. 3,021,796.
Glass, Curtis A.: *See*—
Smith, Cecil R., Jr., Glass, and Wolff. 3,027,388.
Glass, Harold C.: *See*—
Williams, Richard E., and Glass. 3,037,076.
Williams, Richard E., and Glass. 3,037,077.
Glass, Henry P. Furniture legs. 3,033,635, 5–8–62, Cl. 312—256.
Glass, Henry P. Concealed ski attachment employing reciprocating locking members. 3,061,325, 10–30–62, Cl. 280—11.35.
Glass, James W., to Glass, Scott & Wilcox, Inc. Fan motor control. 3,039,070, 6–12–62, Cl. 338—31.
Glass, John A.: *See*—
Tatlock, John, and Glass. 3,049,485.
Tatlock, John, and Glass. 3,054,741.
Glass, John P., and F. Zaic, to Clifton Precision Products Co., Inc. Counter reversing mechanism. 3,022,946, 2–27–62, Cl. 235—117.
Glass, John P., and F. Zaic, to Clifton Precision Products Co., Inc. Variation apparatus. 3,027,076, 3–27–62, Cl. 235—117.
Glass, John P. Sampling switch. 3,035,129, 5–15–62, Cl. 200—38.
Glass, John P. Electronic heading-sensing device. 3,047,766, 7–31–62, Cl. 315—21.
Glass, John X., to The Dow Chemical Co. Polyurethane foam-coated expanded plastic insulation and roof board. 3,029,172, 4–10–62, Cl. 154—45.
Glass, King I.: *See*—
Feerick, Aubrey A., and Glass. 3,041,386.
Frantz, Joseph F., and Glass. 3,032,592.
Glass, Marvin I., Rittgers, and Meyer. 3,050,307.
Glass, Marvin I., and Stan. 3,061,312.
Pelishek, Roy A., and McNamar. 3,023,541.
Glass, Marvin I.: *See*—
Ayala, Carl. 3,029,556.
Ayala, Carl. 3,063,192.
Buh, William F., Jr., and Ayala. 3,046,683.
Kripak, Leonid. 3,058,259.
Licitis, Gunars. 3,024,566.
Licitis, Gunars. 3,044,213.
Licitis, Gunars. 3,059,929.
Licitis, Gunars, and McFarland. 3,026,111.
Neumann, Arthur E. 3,054,215.
Parks, John R. 3,055,672.
Pelishek, Roy A., and McNamar. 3,023,541.
Reed, Bayard C., and Kripak. 3,040,475.
Glass, Marvin I., and L. Kripak; said Kripak assor. to said Glass. Toy sub-machine cap gun with extensible barrel and stock. 3,029,539 4–17–62. Cl. 42—57.
Glass, Marvin I., L. Rittgers, and B. C. Meyer, to Marvin Glass & Associates. Game. 3,050,307, 8–21–62, Cl. 273—87.4.
Glass, Marvin I., and L. Kripak; said Kripak assor. to said Glass. Toy. 3,050,900, 8–28–62, Cl. 46—22.
Glass, Marvin I., and B. C. Reed; said Reed assor. to said Glass. Novelty. 3,050,902, 8–28–62, Cl. 46—123.
Glass, Marvin I., and L. Kripak; said Kripak assor. to said Glass. Toy. 3,060,625, 10–30–62, Cl. 46—1.
Glass, Marvin I., and J. R. Parks; said Parks assor. to said Glass. Toy. 3,060,633, 10–30–62, Cl. 46—176.
Glass, Marvin I., and H. Stan, to Marvin Glass and Associates. Toy. 3,061,312, 10–30–62, Cl. 273—110.
Glass, Robert R. 50% to E. Maltz. Bag with handle. 3,033,438, 5–8–62, Cl. 229—24.
Glass, Robert T. Automatic filler. 3,040,786, 6–26–62, Cl. 141—131.
Glass, Robert T. Stick inserter for confection machines and the like. 3,070,259, 12–25–62, Cl. 221—11.
Glass, Scott & Wilcox, Inc.: *See*—
Glass, James W. 3,039,070.
Glass, Sheldon B. Hobby horse. 3,032,342, 5–1–62, Cl. 272—52.
Glass, William H., and M. L. Hancock, to Westinghouse Air Brake Co. Means and method of inhibiting the rise of the temperature of compressor cylinder incidental to operation while unloaded, 3,043,496, 7–10–62, Cl. 230—30.
Glassburn, William E., to Westinghouse Electric Corp. Time delay induction relay with quick reset. 3,036,243, 5–22–62, Cl. 317—36.

Glassco, Donald E. G., to Purex Corp., Ltd. Flexible plastic bottles. 3,043,461, 7–10–62, Cl. 215—1.

Glasscock, Glen C.: *See*—
Elizer, Lee H., Glasscock, and Seitz. 3,051,691.
Elizer, Lee H., Glasscock, and Seitz. 3,051,698.
Elizer, Lee H., Glasscock, and Seitz. 3,051,699.
Elizer, Lee H., Glasscock, and Seitz. 3,051,700.

Glasser, Ernest C.: *See*—
Apatoff, William, and Glasser. 3,048,935.
Apatoff, William, and Glasser. 3,056,019.

Glassey, Eugene A. Temperature compensator for manometers with servo-followers. 3,043,144, 7–10–62, Cl. 73—401.

Glassoloid Corp. of America: *See*—
Matveeff, Alexander. 3,047,051.

Glasspar Co.: *See*—
Tritt, William R. 3,065,724.

Glass-Tite Industries, Inc.: *See*—
Ellis, Charles A. 3,045,088.

Glastra, Hendrik, to J. F. Scholten and Zonen, N.V. Cutting device. 3,023,656, 3–6–62, Cl. 83—577.

Glas- und Spiegel-Manufaktur Aktiengesellschaft: *See*—
Lerch, Walter. 3,044,159.

Glatfelter, P. H., Co.: *See*—
Casciani, Ferri, and Bauman. 3,020,195.

Glatt, Jack E., ½ to W. L. MacShane. Underwater instrument viewing device. 3,041,917, 7–3–62, Cl. 88—1.

Glatt, William E. Pipe hanger. 3,025,030, 3–13–62, Cl. 248—74.

Glättli, Hans H., to International Business Machines Corp. Fluid operated logical devices. 3,070,295, 12–25–62, Cl. 235—61.

Glatz, Joseph L., and F. A. Cichowski, to United States of America, Army. Dual boresight knob mechanism. 3,037,287, 6–5–62, Cl. 33—46.

Glauber, John J. Automatic reset photo-electric control device. 3,066,246, 11–27–62, Cl. 317—157.

Glaubert, Siegfried, ½ to M. H. Hoepli. Bonding of pieces of ligno-cellulose material. 3,054,706, 9–18–62, Cl. 154—45.9.

Glaubke, Allen F., to Western Electric Co., Inc. Aligning and clamping fixture. 3,027,154, 3–27–62, Cl. 269—32.

Glaude, Max M. V., and D. Boclet, to Commissariat a l'Energie Atomique. Radon detector. 3,056,886, 10–2–62, Cl. 25—71.5.

Glaus, Bernhard, to Ulrich Steinemann AG. Ltd. Method and apparatus for curtain coating. 3,067,060, 12–4–62, Cl. 117—102.

Glaverbel, S.A.: *See*—
Schram, André. 3,051,331.

Glavis, Frank J.: *See*—
Fordyce, David B., Glavis, and Melamed. 3,023,162.

Glavis, Frank J., to Rohm & Haas Co. Hydrolyzed polymers of alkyl methacrylates and methods of producing them. 3,029,228, 4–10–62, Cl. 260—86.1.

Glavis, Frank J., to Rohm & Haas Co. Aqueous polymer dispersions containing (C_1—C_3)-alkyl acrylate/methacrylic acid copolymer salt thickeners. 3,035,004, 5–15–62, Cl. 260—29.7.

Glavis, Frank J., to Rohm & Haas Co. Continuous polymerization of acrylic salts. 3,058,958, 10–16–62, Cl. 260—80.3.

Glaxo Laboratories Ltd.: *See*—
Barton, Derek H. R., Elks, and Bailey. 3,056,809.
Dorcy, Michael J., Mitchell, Rule, and Walker. 3,069,329.
Evans, Ronald M., Elks, Hems, Arthur, Oughton, Gregory, Walker, and Hunt. 3,040,034.
Fantes, Karl H., and Boothroyd. 3,070,505.
Graham, William, Ritchie, and Wetherill. 3,040,071.
Hockenhull, Donald J. D. 3,038,839.
Hockenhull, Donald J. D. 3,069,328.
Long, Alan G., Eardley, and Green. 3,060,199.
Phillipps, Gordon H. 3,056,812.
Phillipps, Gordon H., Graham, Gregory, and Elks. 3,040,069.
Phillipps, Gordon H., Graham, Gregory, and Elks. 3,040,070.

Glaze, Ardelle, to Fort Wayne Metals, Inc. Permeable airfoil skin material. 3,056,432, 10–2–62, Cl. 139—425.

Glaze, John W., Jr., and J. C. Wilson, to Autoboard Corp., Inc. Stocking handling apparatus. 3,019,951, 2–6–62, Cl. 223—76.

Glaze, John W., Jr., and J. C. Wilson, to Autoboard Corp., Inc. Stocking handling apparatus. 3,054,542, 9–18–62, Cl. 223—112.

Glaze, Peyton H.: *See*—
Lowrey, George A., and Glaze. 3,062,292.

Glazebrook, Roy W.: *See*—
Brook, James H. T., and Glazebrook. 3,047,501.

Glazer, Burton G., and E. J. Nossen, to Radio Corp. of America. Pulse circuits. 3,068,405, 12–11–62, Cl. 324—68.

Glazer, Irving D., to Dura Pak Corp. Bottle carrier. 3,036,853, 5–29–62, Cl. 294—87.2.

Gleasman, Hollis K.: *See*—
Hood, Edwin E., and Gleasman. 3,022,682.

Gleasman, Vernon E. Method of making gears. 3,051,058, 8–28–62, Cl. 90—3.

Gleason, Anthony H.: *See*—
Cull, Neville L., Dunlop, and Gleason. 3,068,300.
Mozell, Thomas M., and Gleason. 3,026,279.
Schatz, Ralph H., Gleason, and Slotterbeck. 3,063,857.
Slotterbeck, Ober C., and Gleason. 3,055,761.

Gleason, Anthony H., to Esso Research and Engineering Co. Halogenated derivatives of cyclododecatriene. 3,025,329, 3–13–62, Cl. 260—648.

Gleason, Anthony H., to Esso Research and Engineering Co. 1,5,9 - cyclododecatrienyl - succinic anhydride. 3,056,805, 10–2–62, Cl. 260—346.8.

Gleason, Clarence, to Charles E. Frosst & Co. Long acting steroid compounds. 3,032,469, 5–1–62, Cl. 167—65.

Gleason, Fred C., and P. F. George, to American Home Products Corp. Hose spray applicator with shutoff. 3,027,097, 3–27–62, Cl. 239—318.

Gleason, Geoffrey I., to Abbott Laboratories. Process for making radioactive iodine. 3,033,652, 5–8–62, Cl. 23—218.

Gleason, Jay L., ⅛ to Gadget-Of-The-Month-Club, Inc. Stabilizer. 3,043,049, 7–10–62, Cl. 45—139.

Gleason, Jay L., ⅛ to Gadget-of-the-Month Club, Inc. Ventilated toilet. 3,064,274, 11–20–62, Cl. 4—216.

Gleason, Jay L., ⅛ to Gadget-of-the-Month Club, Inc. Self-advancing auger bit with supplementary lead screw means. 3,064,699, 11–20–62, Cl. 145—117.

Gleason, Joseph P., to United States of America, Navy. Radar range search system. 3,021,522, 2–13–62, Cl. 343—7.3.

Gleason Reel Corp.: *See*—
Finlayson, Thomas R. 3,018,858.
Finlayson, Thomas R. 3,042,050.
Finlayson, Thomas R. 3,059,658.
Weber, Charles H. 3,033,488.

Gleason, Thomas G.: *See*—
Kopita, Robert, and Gleason. 3,036,626.

Gleason, Walter W.: *See*—
Kolfenbach, John J., and Gleason. 3,016,701.

Gleason Works, The: *See*—
Ash, John L., II, and Pedersen. 3,046,799.
Barber, Harry J. 3,036,838.
Bauer, Oliver F., Beman, and Smith. 3,069,779.
Bauer, Oliver F., and Hunkeler. 3,069,813.
Deprez, Thomas A., and Hediger. 3,064,489.
Glesmann, Louis G., Jr., Pedersen, and Pigage. 3,036,362.
Hediger, Edwin A. 3,030,826.
Laessker, Fritz. 3,054,331.
Male, Herman A. 3,054,332.
Spear, Gilmore M. 3,036,364.

Gledhill, Ronald J., and J. Williams, to Eastman Kodak Co. Magenta-colored cyan-forming couplers. 3,034,892, 5–15–62, Cl. 96—55.

Gleen, Jack F.: *See*—
Hurd, Frank K. 3,042,298.

Gleeson, Johanna C. Clerical collars. 3,068,486, 12–18–62, Cl. 2—129.

Gleeson, William S.: *See*—
Tauschek, Max J., and Gleeson. 3,052,085.

Gleeson, William S., to Thompson Ramo Wooldridge Inc. Valve seat insert. 3,028,850, 4–10–62, Cl. 123—188.

Glegg, Keith C. M., to Canadian Marconi Co. Control of microphonic effects in continuous wave radar systems. 3,024,459, 3–6–62, Cl. 343—17.5.

Glehr, Alfred: *See*—
Lang, Anton, Glehr, and Haage. 3,027,883.

Gleichauf, Paul H., to General Electric Co. Color tube potential switching between color and monochrome reproduction. 3,032,608, 5–1–62, Cl. 178—5.4.

Gleichauf, Paul H., to General Electric Co. High resolution electron discharge device. 3,045,140, 7–17–62, Cl. 313—85.

Gleichauf, Paul H., to General Electric Co. High transconductance cathode ray tube. 3,049,641, 8–14–62, Cl. 315—30.

Gleichman, John F.: *See*—
Vehling, Robert W. 3,027,139.

Gleim, Irvin V., to The Mead Corp. Packaging device. 3,028,001, 4–3–62, Cl. 206—62.

Gleim, William K. T.: *See*—
Brown, Kenneth M., Gleim, and Urban. 3,029,201.
Thompson, Ralph B., and Gleim. 3,066,174.

Gleim, William K. T., to Universal Oil Products Co. Polyesters of hydroxybenzoic acids. 3,039,994, 6–19–62, Cl. 260—47.

Glenning, Allan G. O. Apparatus for receiving, assorting and storing of returned empty bottles in shops and the like. 3,015,376, 1–2–62, Cl. 194—4.

Glenday, Martin: *See*—
Williams, Russell F., Morgan, and Glenday. 3,015,325.

Glendening, Major, to F. P. Rosback Co. Slot perforating cutters. 3,052,146, 9–4–62, Cl. 83—660.

Glenfield & Kennedy Ltd.: *See*—
Boucher, Percival L. 3,069,226.

Glen Gery Shale Brick Corp.: *See*—
Coxey, James R. 3,027,227.

Glenmore Distilleries Co.: *See*—
Clark, Robert A. 3,049,166.

Glenn Chemical Co., Inc.: *See*—
Busse, Walter M. 3,070,064.

Glenn, Edward R., to J. C. & A. R. Acker. Door closer. 3,020,580, 2–13–62, Cl. 16—61.

Glenn, Eldridge M., to The Upjohn Co. Topical pharmaceutical formulations containing N,N-dimethylacetamide as an anti-inflammatory ingredient. 3,068,145, 12–11–62, Cl. 167—58.

Glenn, Hardy: *See*—
Salvatori, Henry, Wells, and Glenn. 3,044,041.

Glenn, James J., Jr., and D. E. Willis. Impeller blade protecting means for flow meters. 3,063,292, 11–13–62, Cl. 73—155.

Glenn, John H. Easy set drill press fixture. 3,024,675, 3–13–62, Cl. 77—62.
Glenn, Kenneth: *See*—
Hibbs, George W., and Glenn. 3,058,626.
Glenn, William E., to General Electric Co. Colored light system. Re. 25,169, 5–15–62, Cl. 178—504.
Glenn, William E., Jr., to General Electric Co. Color projection system. 3,044,358, 7–17–62, Cl. 88—61.
Glenn, William E., Jr., to General Electric Co. Projection system. 3,063,331, 11–13–62, Cl. 88—1.
Glenn, William E., Jr., to General Electric Co. Electron beam system. 3,065,295, 11–20–62, Cl. 178—5.4.
Glenn, William E., Jr., to General Electric Co. Light source system. 3,070,688, 12–25–62, Cl. 240—41.35.
Glenny, Clarence S., to The Washburn Co. Dual carrier baskets for bicycles. 3,039,663, 6–19–62, Cl. 224—32.
Glen Raven Cotton Mills, Inc.: *See*—
Bond, Elvin H. 3,062,393.
Glenwood Minnewaska Sales, Inc.: *See*—
Barsness, Norris K., Meyer, Johnson, and Thompson. 3,064,453.
Glerum, Irvin L., to W. C. Dillon & Co., Inc. Dynamometer. 3,033,022, 5–8–62, Cl. 73—141.
Glesener, Norbert P. Portable sand blasting device. 3,032,929, 5–8–62, Cl. 51—8.
Glesmann, Herbert C., and K. Hanssmann, to International Harvester Co. Clutch throw-out bearing. 3,032,158, 5–1–62, Cl. 192—98.
Glesmann, Louis G., Jr., H. Pedersen, and R. F. Pigage, to The Gleason Works. Milling cutter for generated gears. 3,036,362, 5–29–62, Cl. 29—103.
Glew, David N.: *See*—
Young, David M., and Glew. 3,067,267.
Glew, David N., to The Dow Chemical Co. Solution treatment. 3,058,832. 10–16–62. Cl. 99—199.
Glew, John A. Commercial carrier bulk unloading device. 3,049,251, 8–14–62, Cl. 214—83.36.
Gley, Paul R., to National Ultrasonic Corp. Ultrasonic cleaning machine. 3,052,244, 9–4–62, Cl. 134—64.
Gleysteen, Graham N.: *See*—
Gray, Arthur E., and Gleysteen. 3,034,729.
Glezen, Lewis E., to Nestaway Inc. Adapter for stacking containers. 3,018,002, 1–23–62, Cl. 211—126.
Glezen, Lewis E., to Nestaway Inc. Spring wire fastening device. 3,018,993, 1–30–62, Cl. 248—220.5.
Glick, Arthur D.: *See*—
Aske, Vernon H., and Glick. 3,041,883.
Glick, Arthur D., to Minneapolis-Honeywell Regulator Co. Digital-to-pulse train converter. 3,064,248, 11–13–62, Cl. 340—347.
Glick, Edward G., ½ to R. McCormick. Automobile accelerator control with preset automatic throttle operation. 3,028,939, 4–10–62, Cl. 192—3.
Glick, Harold: *See*—
Adler, Myron D., Johnson, Chojnowski, Eisner, Elich, and Glick. 3,057,956.
Glickman, Samuel A., and E. S. Miller, to General Aniline & Film Corp. Polymerization of pyrrolidone and piperidone employing N-substituted secondary amides. 3,016,366, 1–9–62, Cl. 260—78.
Glickman, Samuel A., and E. S. Miller, to General Aniline & Film Corp. Polymerization of pyrrolidone and piperidone employing N,N-disubstituted sulfonamides as chain initiators. 3,016,367, 1–9–62, Cl. 260—78.
Glickman, Samuel A., and E. S. Miller, to General Aniline & Film Corp. Polymerization of pyrrolidone and piperidone employing cyanuric chloride. 3,022,274, 2–20–62, Cl. 260—78.
Glickman, Samuel A., and E. S. Miller, to General Aniline & Film Corp. Polymerization of pyrrolidone and piperidone employing N,N-disubstituted urethanes as chain initiators. 3,036,046, 5–22–62, Cl. 260—78.
Glickman, Samuel A., and E. S. Miller, to General Aniline & Film Corp. N-iminopyrrolidones and polymers therefrom. 3,040,004, 6–19–62, Cl. 260—78.
Glicksman, Martin, to General Foods Corp. Freezable gels. 3,060,032, 10–23–62, Cl. 99—131.
Glidden Co., The: *See*—
Bain, Joseph P. 3,060,237.
Bain, Joseph P. 3,062,875.
Bain, Joseph P., and Best. 3,023,253.
Bain, Joseph P., and Best. 3,064,311.
Bay, Paul G. 3,062,874.
Hampton, Burt L. 3,052,701.
Hampton, Burt L. 3,066,160.
Kenworthy, Lester A. 3,025,135.
Kenworthy, Lester A. 3,063,807.
Kenworthy, Lester A. 3,068,068.
Kiefer, Harry J., Jr. 3,043,705.
Meissner, William A., and Novak. 3,053,291.
Radlove, Sol B. 3,031,434.
Radlove, Sol B. 3,050,478.
Roseman, Reuben, Rummery, Richards, and Chrest. 3,037,876.
Taylor, George B. 3,041,234.
Webb, Robert L. 3,016,468.
Webb, Robert L. 3,028,418.
Webb, Robert L. 3,028,431.
Webb, Robert L. 3,031,442.
Gliebe, Francis J. Fishing rod holder. 3,021,101, 2–13–62, Cl. 248—44.
Glitsch, Fritz W., & Sons Inc.: *See*—
Glitsch, Hans C. 3,019,003.
Glitsch, Hans C. 3,037,754.
Glitsch, Hans C., to Fritz W. Glitsch & Sons Inc. Closures for fluid contact apparatus. 3,019,003, 1–30–62, Cl. 261—114.
Glitsch, Hans C., to Fritz W. Glitsch & Sons, Inc. Closures for fluid contact apparatus. 3,037,754, 6–5–62, Cl. 261—114.
Globar-Carlin Inc.: *See*—
Brockman, Marguerite L. 3,060,445.
Globe Bedding Co. Ltd., The: *See*—
Miller, Israel. 3,069,698.
Globe Hoist Co.: *See*—
Wallace, George A. 3,048,238.
Globe Industries, Inc.: *See*—
Bornhorst, Kenneth F. 3,054,581.
Coron, Ira, and Mess. 3,066,850.
Early, Paul F., and Smilg. 3,042,033.
Iller, Werner J. 3,042,028.
Pope, Kenneth E. 3,048,042.
Renner, Clarence B. 3,024,127.
Timmer, David J., Philbrick, Mossbarger, and Caton. 3,022,432.
Wasserman, Lee S., and Stolzenberger. 3,052,128.
Globe and Mail Ltd., The: *See*—
Harrison, James. 3,026,659.
Globe Mfg. Co.: *See*—
Polansky, Seymour. 3,036,878.
Polansky, Seymour. 3,047,356.
Globe-Union Inc.: *See*—
Fiandt, Ronald M., and Sherwood. 3,061,827.
Ganiere, Herbert C., Schimek, and Sherwood. 3,021,469.
Khouri, Alfred S. 3,059,152.
Kilby, Jack S. 3,052,822.
Kilby, Jack S., and Williamsen. 3,069,261.
Sherwood, Edwin T., and Schimek. 3,052,818.
Ter Haken, Melvin C., Parsons, and Marks. 3,052,824.
Weideman, Bernard A., and Groff. 3,041,687.
Zunker, Harold D., and Hoch. 3,032,734.
Glock, Charles R. Rug cleaning machine. 3,046,774, 7–31–62, Cl. 68—39.
Glocker, Paul L. Method and device for transporting workpieces. 3,036,693, 5–29–62, Cl. 198—25.
Glodenis, Zenonas: *See*—
Landsverk, Ole G., and Glodenis. 3,017,511.
Landsverk, Ole G., Glodenis, and Merriner. 3,047,748.
Gloess, Paul F. M.: *See*—
Lucas, Pierre M., and Gloess. 3,032,268.
Glogau, Richard C.: *See*—
Andersen, Holger C., Cohn, and Glogau. 3,032,387.
Glogau, Richard C., and R. H. Weir, to E. I. du Pont de Nemours and Co. Production of di(2-hydroxyethyl) terephthalate. 3,052,711, 9–4–62, Cl. 260—475.
Glorioso, Paul A., to Gregory Industries, Inc. Short cycle welding circuit. 3,064,119, 11–13–62, Cl. 219—98.
Glos, Martin: *See*—
Sus, Oskar, and Glos. 3,024,362.
Sus, Oskar, and Glos. 3,046,126.
Glou, Harry C. Sitz bath. 3,034,137, 5–15–62, Cl. 4—6.
Glover, Benjamin M. Method of making bonded non-woven fabric from textile fibers. 3,022,813, 2–27–62, Cl. 156—148.
Glover, Billy R. Rock bucket for earth drilling. 3,039,547, 6–19–62, Cl. 175—251.
Glover, Campbell D., ½ to Weldon, Williams & Lick Inc. Photographic composing machine. 3,053,161, 9–11–62, Cl. 95—73.
Glover, Denys T., and D. C. L. Lovell, to Normalair Ltd. Oxygen breathing systems. 3,019,423, 1–30–62, Cl. 340—279.
Glover, Jessie W. Adjustable trotline holder. 3,047,978, 8–7–62, Cl. 43—54.5.
Glover, Robert L. Stud welding. 3,037,109, 5–29–62, Cl. 219—99.
Glover, Wilfrid, to BTR Industries Ltd. Method and apparatus for producing multiple ply fabric articles. 3,038,833, 6–12–62, Cl. 156—322.
Glover, Wilfrid, and R. Tudor, to BRT Industries Ltd. (formerly British Tyre & Rubber Co. Ltd.). Flexible laminated articles composed of rubber or rubber-like materials. 3,063,884, 11–13–62, Cl. 154—52.1.
Gloviak, Stanley: *See*—
Frantz, Nicholas, and Gloviak. 3,045,078.
Frantz, Nicholas, and Gloviak. 3,045,079.
Frantz, Nicholas, and Gloviak. 3,045,080.
Glowacki, John J., and W. C. Fox, to noCord, Inc. Switching device and associated apparatus. 3,053,042, 9–11–62, Cl. 58—152.
Gluchowicz, Gerszon, to Ulvsunda Verkstader Aktiebolag. Apparatus for correcting the position of a measure-determining element of a machine tool. 3,057,186, 10–9–62, Cl. 73—37.9.
Gluck, David G., to United States Stoneware Co. Treatment of polymeric fluorine-containing resins and resulting products. 3,067,078, 12–4–62, Cl. 154—43.

Glück, Kurt, to C. Diamond Co., Inc. Electric clock movement with a battery-fed electric motor. 3,067,838, 12–11–62, Cl. 185—40.

Gluck, William, to Industrial Electronic Hardware Corp. Electrical socket and contact therefor. 3,026,496, 3–20–62, Cl. 339—193.

Gluck, William, to Industrial Electronic Hardware Corp. Pin-receiving contacts for printed circuit board. 3,027,004, 3–27–62, Cl. 206—56.

Gluck, William, to Industrial Electronic Hardware Corp. Socket for radio tubes or the like. 3,031,635, 4–24–62, Cl. 339—14.

Gluck, William, to Industrial Electronic Hardware Corp. Connector, particularly for flat cable. 3,034,091, 5–8–62, Cl. 339—103.

Gluck, William, to Industrial Electronic Hardware Corp. Mechanized insertion of radio tube sockets. 3,043,001, 7–10–62, Cl. 29—203.

Gluckin, William, & Co., Inc.: *See*—
Grishman, Simon. 3,029,822.
Grishman, Simon. 3,043,313.
Rouder, Henry N. 3,057,462.
Soltz, Max. 3,029,938.

Gluckstein, Leonard, and W. T. Everington, to J. Lyons & Co. Ltd. Preparation of beverages. 3,040,647, 6–26–62, Cl. 99—239.

Gluckstein, Leonard, and R. W. Money, to J. Lyons & Co., Ltd. Manufacture of beverages and the like. 3,069,271, 12–18–62, Cl. 99—105.

Glueck, Alan R. Process control. 3,029,829, 4–17–62, Cl. 137—3.

Glueck, Marta G., and A. L. Jankens, to The Dow Chemical Co. Stabilizing latexes of chloroethylene polymers with mono sodium urea. 3,051,675, 8–28–62, Cl. 260—29.6.

Gluesenkamp, Earl W., to Monsanto Chemical Co. Process of polymerizing a vinyl ether with a trialkylaluminum/titanium tetrachloride catalyst. 3,026,290, 3–20–62, Cl. 260—45.5.

Glukes, Bernard R., to C. Glukes. Animated indicia by color occlusion. 3,023,523, 3–6–62, Cl. 40—132.

Glukes, Clara: *See*—
Glukes, Bernard R. 3,023,523.

Glunt, Ernie F., Jr.: *See*—
Boger, Albert J. and G. E., Austin, and Glunt. 3,054,239.

Gluth, Norman P., to Hughes Aircraft Co. Selective automatic gain control circuit. 3,042,800, 7–3–62, Cl. 250—20.

Glynn, Emmett P., and C. O. Hebenstreit, to Armour & Co. Bar soap manufacture. 3,032,505, 5–1–62, Cl. 252—122.

Glynn, Theodore W., to American-Saint Gobain Corp. Electric heater with plate-clamping reflector. 3,062,945, 11–6–62, Cl. 219—34.

Gmeiner, Ambros and W. Apparatus for distributing pourable bulk materials. 3,055,665, 9–25–62, Cl. 275—8.

Gmeiner, Paul, to International Business Machines Corp. Drying apparatus. 3,015,265, 1–2–62, Cl. 101—93.

Gmeiner, Wilhelm: *See*—
Gmeiner, Ambros and W. 3,055,665.

Gmitter, George T., E. M. Maxey, and M. J. Sanger, to The General Tire & Rubber Co. Cellular polyurethane containing wood cellulose and method of preparing same. 3,021,-290, 2–13–62, Cl. 260—2.5.

Gmitter, George T., and E. V. Braidich, to The General Tire & Rubber Co. Method of making polyurethane foam using an organic silane. 3,050,477, 8–21–62, Cl. 260—2.5.

Gnade, Walter, and E. Pekrul, to Westinghouse Bremsen-Gesellschaft, m.b.H. Traction control suspension arrangement for multiple axle tractor vehicles. 3,053,335, 9–11–62, Cl. 180—22.

Gnage, Oliver W., and J. S. Pollock, to Eastman Kodak Co. Adjustable flanges for various width roll papers. 3,017,-132, 1–16–62, Cl. 242—71.9.

Gnass, Werner: *See*—
Bittner, Ernst, and Gnass. 3,063,457.

Gnau, Lewis H., to Sylvania Electric Products Inc. Process for electrophoretically coating a metal with particulate carbon material. 3,037,925, 6–5–62, Cl. 204—181.

Go Oil Well Services, Inc.: *See*—
Owen, Harrold D. 3,036,521.

Goalwin, Daniel S.: *See*—
Corbett, Albert D., Weinberg, and Goalwin. 3,064,137.

Goba, Fricis A.: *See*—
Canfor, Kenneth, Goba, Tiley, and Oldfield. 3,026,471.

Gobatti, Edmond F. Ore concentrator. 3,042,207, 7–3–62, Cl. 209—433.

Gobb, Arthur F., to McCord Corp. Spark plug gasket. 3,029,-084, 4–10–62, Cl. 277—215.

Gobbo, Edward, Sr., N. D. Lincoln, and J. J. Sepkoski, to Chicopee Mfg. Corp. Disposable diaper. 3,065,751, 11–27–62, Cl. 128—287.

Gobby, Boles G. Tooth and bridge surveying analyzer. 3,068,572, 12–18–62, Cl. 32—67.

Gobeil, Richard J., and R. W. Luckenbaugh, to E. I. du Pont de Nemours and Co. Herbicidal composition and method employing N-cyano and N-cyanoalkyl substituted ureas. 3,020,144, 2–6–62, Cl. 71—2.6.

Göbel, Gerhard, to Buderus'sche Eisenwerke. Heating boiler. 3,070,076, 12–25–62, Cl. 122—228.

Gobel, Johannes, to Buntpapierfabrik A.G. Underglaze decalcomania and method of making same. 3,015,574, 1–2–62, Cl. 117—3.1.

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Gobert, Gerald. Method for preventing dry rot in timber associated with masonry. 3,047,357, 7–31–62, Cl. 21—7.

Goble, Harry E., to Chain Belt Co. Pulley. 3,032,379, 5–1–62, Cl. 308—20.

Goble, Lloyd H., to Union Carbide Corp. Web slitter apparatus with optional alternatively operable slitters having guard means. 3,055,247, 9–25–62, Cl. 83—425.

Gochenour, Olin C., to Jones & Laughlin Steel Corp. Continuous strip gauge control means. 3,030,836, 4–24–62, Cl. 80—35.

Goda, George: *See*—
Bernstein, Richard K., and Goda. 3,034,509.

Goda, Tadayuki. Method for producing new sugars. 3,066,-086, 11–27–62, Cl. 204—158.

Godar, Richard L., and V. L. Stromberg, to Petrolite Corp. Thermally stable distillate fuels. 3,030,197, 4–17–62, Cl. 44—72.

Godbey, John K., to Socony Mobil Oil Co., Inc. Bridge measurement of high borehole resistance. 3,068,447, 12–11–62, Cl. 340—18.

Godbey, Josiah J., to The Atlantic Refining Co. Electrical wave analyzer. 3,042,864, 7–3–62, Cl. 324—77.

Goddard, Arthur M.: *See*—
Finlayson, Donald, and Goddard. 3,025,128.
Finlayson, Donald, and Goddard. 3,025,129.

Goddard, Hubert A.: *See*—
Thompson, Donald E., and Goddard. 3,068,570.

Goddard, John A., to Ronson Corp. Burner valves for compressed gaseous fuels. 3,050,973, 8–28–62, Cl. 67—7.1.

Goddard, Lloyd E., to Ethyl Corp. Preparation of organic compounds. 3,065,275, 11–20–62, Cl. 260—609.

Goddard, Murray C., and R. W. Huboi, to Eastman Kodak Co. Apparatus for making color prints. 3,029,691, 4–17–62, Cl. 88—24.

Goddard, William A., to International Business Machines Corp. Optical recording device. 3,020,805, 2–13–62, Cl. 88—61.

Godecke, Howard A.: *See*—
Caldwell, Douglas H., Godecke, and Voorhees. 3,025,955.

Godefrol, Erik F., to Parke, Davis & Co. Saturated quinoline and indole derivatives. 3,035,059, 5–15–62, Cl. 260—283.

Godefrol, Erik F., to Parke, Davis & Co. Spiran compounds and methods for their production. 3,040,048, 6–19–62, Cl. 260—283.

Godefrol, Erik F., to Parke, Davis & Co. Process for producing salts of 1-phenylcyclohexyl amine. 3,068,288, 12–11–62, Cl. 260—570.5.

Godel, Albert, to Compagnie Industrielle de Procedes et d'Applications S.A. Process for obtaining chemical reactions in a fluidized phase and devices for carrying out these processes. 3,042,500, 7–3–62, Cl. 23—284.

Godet, Maurice R.: *See*—
Lipsky, Seymour R., and Godet. 3,023,751.

Godfrey, Sir George, & Partner (Holdings) Ltd.: *See*—
Anderson, Norman. 3,027,133.

Godfrey, John W., to General Motors Corp. Clad alloy metal for corrosion resistance and heat exchange made therefrom. 3,053,511, 9–11–62, Cl. 257—154.

Godfrey, Kenneth L., and J. J. D'Amico, to Monsanto Chemical Co. Destroying undesired vegetation. 3,015,551, 1–2–62, Cl. 71—2.5.

Godfrey, Milton L., and J. L. Vodenichar, to Talon, Inc. Reversible automatic lock slider. 3,038,227, 6–12–62, Cl. 24—205.14.

Godfrey, Norman B.: *See*—
Moss, Philip H., and Godfrey. 3,037,023.

Godfrey, Norman B., to Jefferson Chemical Co., Inc. Method for preparing 2-alkyl-substituted piperazines. 3,037,025, 5–29–62, Cl. 260—268.

Godfrey, Norman B., to Jefferson Chemical Co., Inc. Method for separating amines. 3,038,904, 6–12–62, Cl. 260—268.

Godfrey, Norman B., to Jefferson Chemical Co., Inc. Novel propellants. 3,055,173, 9–25–62, Cl. 60—35.4.

Godfrey, Norman B., to Jefferson Chemical Co., Inc. Method for preparing piperazines. 3,064,001, 11–13–62, Cl. 260—268.

Godfrey, Thomas A., to International Cigar Machinery Co Cigar machine. 3,033,211, 5–8–62, Cl. 131—81.

Godfrey, Thomas A., to International Cigar Machinery Co. Apparatus and method for reinforcing tobacco web. 3,036,-579, 5–29–62, Cl. 131—29.

Godfrey, Thomas A., to International Cigar Machinery Co. Transfer for cigar machines. 3,048,281, 8–7–62, Cl. 214—1.

Godlewski, Edward S. Collating device. 3,054,612, 9–18–62, Cl. 270—58.

Godley, Frank E.: *See*—
Moore, Harry O. 3,058,117.

Godman, Burnett. Combination center punch and scribing gauge. 3,015,889, 1–9–62, Cl. 33—27.

Godsey, Everett L. Adjustable and rigidly positionable mounting device. 3,054,589, 9–18–62, Cl. 248—165.

Godsey, H. Mitchell. Wrench size-reducing and nut size-enlarging adapters. 3,029,673, 4–17–62, Cl. 81—185.

Godshalk, James B., to Fox Products Co. Poultry watering devices. 3,023,770, 3–6–62, Cl. 137—391.

Godshalk, James B., to Fox Products Co. Poultry waterer. 3,034,481, 5–15–62, Cl. 119—81.

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Godshall, Albert L., to Ametek, Inc. Load testing apparatus. 3,041,873, 7–3–62, Cl. 73—93.

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Godtfredsen, Wagn O., and S. Lüsberg, to Lovens Kemiske Fabrik Ved A. Kongsted. 6a,6a-dihalo-6,7-methylene steroids and method. 3,047,566, 7–31–62, Cl. 260—239.55.

Godwin, Robert H. : *See*—
Skupas, John A., Godwin, and Martin. 3,032,805.

Goebbels, Leonhard : *See*—
Winkler, Viktor, Goebbels, and Kramer. 3,025,738.

Goebel, Charles G. : *See*—
Barrett, Fred O., and Goebel. 3,036,099.

Goebel G.m.b.H., Maschinenfabrik : *See*—
Sauberlich, Willy. 3,045,591.

Goebel, Helmut : *See*—
Frenech, Jörg, Goebel, and Czech. 3,060,085.

Goebels, Frank J., Jr., and K. C. Kelly, to Hughes Aircraft Co. Arbitrarily polarized slot antenna. 3,022,506, 2–20–62, Cl. 343—771.

Goeckner, Herman L., and H. E. Hukill. Heel cup. 3,050,878, 8–28–62. Cl. 36—58.5.

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Goehler, Joe W. Reversing water jet steering nozzle. 3,064,-429. 11–20–62, Cl. 60—35.55.

Goehring, Richard E. Automatic heater flow control. 3,027,-088, 3–27–62, Cl. 236—12.

Goeldner, Richard W., to Aqua-Chem, Inc. Plural stage flash evaporation method. Re. 25,232, 8–28–62, Cl. 202—53.

Goellner, Allan R., to Reliance Gauze Column Co. Electrode probe. 3,018,322, 1–23–62, Cl. 174—151.

Goellner, Allan R., to The Reliance Gauge Column Co. Liquid level indicator. 3,022,397, 2–20–62, Cl. 200—84.

Goellner, John A., to Monarch Metal Weatherstrip Corp. Frame construction. 3,028,638, 4–10–62, Cl. 20—11.

Goelz, George W. : *See*—
Reif, Myles W., Goelz, and Zigmund. 3,070,323.

Goemann, Richard P., and R. O. Norton, to H. H. Robertson Co. Air distributing apparatus and method. 3,019,987, 2–6–62. Cl. 236—13.

Goepel, Oscar, to United States of America, Army. Continuous film feed. 3,034,399, 5–15–62, Cl. 88—18.7.

Goeppinger, Edward J. : *See*—
Bourns, Marlan E., and Goeppinger. 3,030,599.

Goerden, Leonhard : *See*—
Schuller, Wolfgang, and Goerden. 3,028,282.

Goering, Kenneth J., to Oil Seed Products, Inc. Treatment of mustard seed. 3.044.876. 7–17–62, Cl. 99—2.

Goerke, James R., to The Bendix Corp. Servo control apparatus. 3,018 763. 1–30–62, Cl. 121—41.

Goerland, Vilmuth P. : *See*—
Reither, Roy L., and Goerland. 3.060.886.

Goerler Julius Karl. Transformatorenfabrik : *See*—
Schweitzer, Gerhard. Re. 25,256.

Goerrig, Dieter, and V. Lwowski ; said Lwowski assor. to said Goerrig. Process for the production of calcium-monofluoride. 3,023,082, 2–27–62. Cl. 23—88.

Goertz, Raymond C., and J. F. Lindberg, to United States of America, Atomic Energy Commission. Vehicle for slave robot. 3 018,980, 1–30–62, Cl. 242—86.5.

Goerz, Anna M. : *See*—
Asprion, Anna M. 3,055,319.

Goerz, C. P. : *See*—
Giesecke Heinrich. 3.054,326.

Goerz. Christian P., and H. Giesecke. Stereoscopic image reversing system. 3.028.492, 4–3–62, Cl. 250—71.

Goeser, Paul A., to Firma Draiswerke G.m.b.H. Ball mill. 3.015,451, 1–2–62. Cl. 241—172.

Goethel, Herbert, E. Jacob, H. Kolling, and O. Roelen, to Ruhrchemie Aktiengesellschaft. Process for the production of porous polyethylene bodies. 3,024,208, 3–6–62, Cl. 260—2.5.

Goetsch, Ira A. : *See*—
Loy, Walter H., and Goetsch. 3,070,028.

Goetter, William F., to General Electric Co. Power amplifier. 3,066,264. 11–27–62, Cl. 330—107.

Goetter, William F., and R. L. Millham, to General Electric Co. Power oscillator. 3,066,210, 11–27–62, Cl. 219—10.55.

Goettl, Adam D., to McGraw-Edison Co. Air directing louver device. 3,045,576, 7–24–62, Cl. 98—40.

Goettl, Adam D., to McGraw-Edison Co. Water recirculating device for evaporative coolers. 3,058,726, 10–16–62. Cl. 261—29.

Goettl, Adam D., to McGraw-Edison Co. Cooler pan and frame construction. 3,063,766, 11–13–62, Cl. 312—31.03.

Goettl, Albert B., to McGraw-Edison Co. Impeller housing. 3,029,744, 4–17–62, Cl. 103—220.

Goetz, Daniel A., to Stylette Plastics, Inc. Containers. 3,035,623, 5–22–62, Cl. 150—48.

Goetz, Donald C. : *See*—
Hathaway, Clayton E., Jr., Goetz, and Kottke. 3,046,-147.

Goetz, Robert H. Game board. 3,024,026, 3–6–62, Cl. 273—130.

Goetzberger, Adolph, to Clevite Corp. Method of forming junction semiconductive devices having thin layers. 3,041,214, 6–26–62, Cl. 148—1.5.

Goetzewerke Friedrich Goetze Aktiengesellschaft : *See*—
Buchmuller, Werner, and Mey. 3,024,685.
Mey, Helmut. 3,057,235.

Goeze, Gunter : *See*—
Gaudian, Bernhard, and Goeze. 3,046,188.

Goff, Donald D. : *See*—
Brown, Raymond R., and Goff. 3,047,839.

Goff, George B. F., and K. W. Whiting, to Pye Ltd. Television camera pick-up tubes. 3,060,343, 10–23–62, Cl. 315—12.

Goff, Lionel E., to Olin Mathieson Chemical Corp. Metal fabrication. 3,059.324, 10–23–62, Cl. 29—157.3.

Goffe, Charles A. : *See*—
Henn, Richard W., and Goffe. 3,030,209.

Goffinet, Bernard : *See*—
Amiard, Gaston, Goffinet, Heymes, Martel, and Vellus. 3,035,064.
Joly, Robert, Warnant, and Goffinet. 3,048.582.
Joly, Robert, Warnant, and Goffinet. 3.052.696.
Velluz, Leon, Goffinet, Warnant, and Amiard. 3,066,154.

Gogan, Joseph. Torsion bar presetting machine. 3,067,800, 12–11–62, Cl. 153—78.

Gogzans, Andrew J. Surface marker. 3,037,235, 6–5–62, Cl. 15—503.

Gogol, Stefan, and L. C. Gogul. Fire escape slide. 3,016,-975, 1–16–62, Cl. 182—48.

Gogul, Leo C. : *See*—
Gogol, Stefan, and Gogul. 3,016.975.

Gohlke, Harold S., to The Dow Chemical Co. Thermoconductivity cell. 3,050,983, 8–28–62, Cl. 73—27.

Gohorel, Fernand P., to International Standard Electric Corp. Telephone systems. 3,049,594, 8–14–62, Cl. 179—18.

Gohorel, Fernand P., to International Standard Electric Corp. Telephone systems. 3,059,055, 10–16–62, Cl. 179—7.

Going, Louis E., and C. H. Japikse, to The Procter & Gamble Co. Prepared batters. 3,021,220, 2–13–62, Cl. 99—92.

Goins, Rex H. : *See*—
Touey, George P., and Goins. 3,053,884.

Goland, Leonard, D. F. Gebhard, and R. R. Kenworthy, to Kellet Aircraft Corp. Stabilization of rotary wing aircraft. 3,027,948, 4–3–62, Cl. 170—160.13.

Golay & Co., Inc. : *See*—
Schlensker, Albert L. 3,057,491.

Gold, Albert A. Display banner assembly. 3,034,242, 5–15–62, Cl. 40—125.

Gold, Allen M. : *See*—
Schwenk, Erwin, and Gold. 3,060,205.

Gold, Charles M. : *See*—
Cooper, Manuel, and Gold. 3,018,314.

Gold, Jack : *See*—
Armacost, Robert H. 3.022,685.

Gold, John L., to Reiner Industries, Inc. Pivoted spring clamp. 3,030,970, 4–24–62, Cl. 132—48.

Gold, Joseph : *See*—
Danziger, William, Rush, and Gold. 3,045,870.

Gold, Joseph. Process for the production of DL glyceraldehyde 3-phosphate and analogs. 3,070,620, 12–25–62, Cl. 260—461.

Gold, Marvin H., and G. B. Linden, to Aerojet-General Corp. Polynitro alcohols and their method of preparation. 3,020,-318, 2–6–62, Cl. 260—632.

Gold, Nat, to Nu-Dent Porcelain Studio Inc. Apparatus for curing moist dental restoration molds. 3,057,078, 10–9–62, Cl. 34—48.

Gold, Nathan. Double sideband suppressed carrier amplitude modulator. 3,026,489, 3–20–62, Cl. 332—44.

Gold, Richard L., to Joseph Lucas (Industries) Ltd. Liquid fuel burning apparatus. 3,038,531, 6–12–62, Cl. 158—76.

Gold, Robert D., and M. C. Steele, to Radio Corp. of America. Variable pulse delay using semiconductor impact ionization effect. 3,029,353. 4–10–62, Cl. 307—88.5.

Gold, Robert L. : *See*—
Falk, Edward J., Gold, and Schnell. 3,036,668.

Gold, Robert L., and R. E. Schwartz, to Wagner Electric Corp. Fluid cooled friction device. 3,028,935, 4–10–62, Cl. 188—264.

Gold, Robert L., and R. E. Schwartz, to Wagner Electric Corp. Brake system. 3,044,582, 7–17–62, Cl. 188—264.

Gold, Thomas : *See*—
Menzel, Donald H., and Gold. 3,034,594.

Goldammer, Arthur R., D. A. Long, and W. W. Mosher, Jr., to Precision Dynamics Corp. Bracelet for identification purposes. 3,059,359, 10–23–62, Cl. 40—21.

Goldan, Theodore J., to International Telephone and Telegraph Corp. Precision approach radar. 3,060,423, 10–23–62, Cl. 343—16.

Goldbeck, Albert T. Self tensioning reinforcement for pavement and its use. 3,066,581, 12–4–62, Cl. 94—8.

Goldberg, Alan A., and H. J. Smith, to The Pyrethrum Board of Kenya. Stabilized pyrethrum compositions. 3,063,893, 11–13–62. Cl. 167—24.

Goldberg, Albert I., A. B. Loebel, and K Victor Jasinski (now by change of name Victor Jasinski), to National Starch and Chemical Corp. Preparing a graft copolymer of vinyl acetate and a propylene oxide, ethylene oxide and ethylene diamine reaction product and compositions containing same. 3,030,326, 4–17–62, Cl. 260—29.6.

Goldberg, Albert I., J. Fertig, and H. Stanley, to National Starch and Chemical Corp. Improved process for the preparation of beta-hydroxyalkyl mono-esters of acrylic and methacrylic acid. 3,059,024, 10–16–62, Cl. 260—486.

Goldberg, Allan M.: *See*—
Corcoran, William H., Goldberg, and Hamilton. 3,064,652.

Goldberg, Benjamin. Safety window washline holders. 3,042,219. 7–3–62. Cl. 211—119.08.

Goldberg, Charleton: *See*—
Jacobson, Albert, and Goldberg. 3,068,120.

Goldberg, Earl J., to E. I. du Pont de Nemours and Co. Hydroxyl-terminated polymers. 3,055,952, 9–25–62, Cl. 260—635.

Goldberg, Edward. S. A. Barash, and H. Moreines, to The Bendix Corp. Flight path control apparatus. 3,067,969, 12–11–62, Cl. 244—77.

Goldberg, Eugene P., to General Electric Co. Cross-linked polycarbonate resins. 3,021,305, 2–13–62, Cl. 260—47.

Goldberg, Eugene P., to General Electric Co. Process for preparing copolyesters comprising reacting carbonyl halide with a dicarboxylic acid and a dihydroxy compound in the presence of a tertiary amine. 3,030,331, 4–17–62, Cl. 260—42.

Goldberg, Eugene P., to General Electric Co. Aromatic polycarbonate reaction products. 3,030,335, 4–17–62, Cl. 260—47.

Goldberg, Herbert E. Graticule holding device. Re. 25,301, 12–11–62, Cl. 33—46.

Goldberg, Jack, H. L. Rosenberg, and R. F. Le Vino, to United States of America, Army. Quick disconnect device. 3,021,403, 2–13–62, Cl. 200—82.

Goldberg, Jacob: *See*—
Cox, Bonnar, and Goldberg. 3,040,984.

Goldberg, Jacob, and B. Cox, to General Electric Co. Printer format control system. Re. 25,263, 10–16–62, Cl. 101—93.

Goldberg, Jacob, and B. Cox, to General Electric Co. Service-charge calculation system. 3,017,103, 1–16–62, Cl. 235—176.

Goldberg, Joseph E.: *See*—
Kahn, Louis S. 3,067,780.

Goldberg, Leon J.: *See*—
Bedford, Burnice D., and Goldberg. 3,042,838.

Goldberg, Lloyd W., to Thiokol Chemical Corp. Offset hermetic seal for butterfly type valve. 3,039,482, 6–19–62, Cl. 137—68.

Goldberg, Lloyd W., to Thiokol Chemical Corp. Hermetically sealed butterfly poppet valve. 3,065,950, 11–27–62, Cl. 251—160.

Goldberg, Mark L.: *See*—
Kahn, Louis S. 3,067,780.

Goldberg, Moses W., and S. Teitel, to Hoffmann-La Roche Inc. Amido-diamines and triamines. 3,022,301, 2–20–62, Cl. 260—247.2.

Goldberg, Moses W., and S. Teitel, to Hoffmann-La Roche Inc. Benzylamine derivatives. 3,047,628, 7–31–62, Cl. 260—570.7.

Goldberg, Moses W., and H. H. Lehr, to Hoffman-La Roche Inc. Sulfur, nitrogen-containing esters and preparation thereof. 3,052,706, 9–4–62. Cl. 260—453.

Goldberg, Moses W., and S. Teitel, to Hoffmann-La Roche Inc. Diamine compounds. 3,064,039, 11–13–62, Cl. 260—501.

Goldberg, Moses W., and S. Teitel, to Hoffmann-La Roche Inc. Symmetrical alicyclic amine derivatives. 3,064,052, 11–13–62, Cl. 260—567.6.

Goldberg, Moshe L. Pipette filling and liquid dispensing device. 3,039,500, 6–19–62, Cl. 141—26.

Goldberg, Paul, and A. L. Solomon, to Sylvania Electric Products Inc. Electroluminescent device. 3,050,655, 8–21–62, Cl. 313—108.

Goldberg, Samuel, to Wolsam, Ltd. Shoe construction. 3,032,895, 5–8–62, Cl. 36—2.5.

Goldberg, Samuel. Building construction. 3,065,573, 11–27–62, Cl. 50—80.

Goldberg, Samuel D., to Graham Chemical Corp. Hypodermic syringe piston. 3,045,674, 7–24–62, Cl. 128—218.

Goldblatt, Barbara: *See*—
Barany, Robert. 3,044,513.

Goldblatt, Leo A.: *See*—
Dubuy, Harold P., Goldblatt, and Magne. 3,052,680.
McKinney, Robert S., and Goldblatt. 3,032,467.

Golde, Dimitri, and P. Vierendeel, to Chassis Metallique Beige "Chamchel" S.A., Le. Embarkation gangway. 3,047,891. 8–7–62, Cl. 14—71.

Golde, Erich. Screw-type bottle closure with locking device. 3,018,013, 1–23–62, Cl. 215—73.

Golde, H. T., G.m.b.H.: *See*—
Wener, Johannes. 3,050,336.

Golde, H. T., G.m.b.H. & Co., K.G.: *See*—
Golde, Hans. 3,044,825.
Golde, Hans, and Werner. 3,055,701.
Werner, Johannes. 3,025,099.
Werner, Johannes. 3,028,194.
Werner, Johannes 3,044,824.
Werner, Johannes. 3,053,581.

Golde, Hans. Vehicle roofs. 3,033,608, 5–8–62, Cl. 296—137.

Golde, Hans, to H. T. Golde, G.m.b.H. & Co., K.G. Connecting means for a guide rail for slidable roofs of vehicles. 3,044,825, 7–17–62, Cl. 296—137.

Golde, Hans. Electric circuit making and breaking device for the sliding panel of a vehicle roof. 3,056,628, 10–2–62, Cl. 296—137.

Golde, Hans, and J. Werner, to H. T. Golde G.m.b.H. & Co. K.G. Mechanism for operating sliding roofs for motor vehicles. 3,055,701, 9–25–62, Cl. 296—137.

Golde, Hans T. Motor vehicle with electrically operated slidable top. 3,033,609, 5–8–62, Cl. 296—137.

Golden, Carl E. Liquid gas vaporizer with float control. 3,044,482, 7–17–62, Cl. 137—202.

Golden, Fred S.: *See*—
Dahl, Robert R., Erickson, and Golden. 3,062,992.

Golden, Paul L.: *See*—
Dieter, Wesley E., Golden, and Nazaruk. 3,045,861.

Golden, Stanley L.: *See*—
Gewickey, Frank L., Golden, and Muenzer. 3,048,327.

Golden, Whitely M. Sod cutting and elevating apparatus. 3,051,251, 8–28–62, Cl. 172—20.

Goldenberg, Leo, and M. Fidelman. Magnesium galvanic cell. 3,036,141, 5–22–62, Cl. 136—100.

Goldenberg, Leo, and M. Fidelman. Primary battery. 3,036,142, 5–22–62. Cl. 136—100.

Golden Star Polish Mfg. Co., Inc.: *See*—
Gradinger, Leland, and Six. 3,041,648.

Goldfarb, Adolph E.: *See*—
Peiler, Lester R., Saperstein, and Goldfarb. 3,059,259.

Goldfarb, Adolph E. Key operated cap gun. 3,026,643, 3–27–62, Cl. 42—57.

Goldfarb, Herman: *See*—
Davis, Robert G., Goldfarb, and Heiss. 3,025,139.

Goldfine, Philip F., to Emi-Mar Corp. Tiltable lamp shade mount. 3,016,455, 1–9–62, Cl. 240—148.

Goldfinger, Arthur A.: *See*—
Chin, David D., Lazzarini, and Goldfinger. 3,044,027.

Goldfinger, Gerald C.: *See*—
Bachman, Gustave B., and Goldfinger. 3,054,827.

Goldfischer, Lester L.: *See*—
Parr, Albert F. W., Lawton, and Goldfischer. 3,028,592.

Goldie, Henry C.: *See*—
Aarts, Willem H., and Goldie. 3,030,802.

Goldin, Robert, to Bell Aerospace Corp. Aircraft pilot instrument. 3,052,121, 9–4–62, Cl. 73—178.

Golding, Fred E., to Aeon Industries, Inc. Dressing table safety belt. 3,035,278, 5–22–62, Cl. 5—317.

Golding, William F. Apparatus for converting reciprocating into intermittent motion. 3,020,773, 2–13–62, Cl. 74—138.

Golding, William F. Sheet feeding apparatus. 3,049,348, 8–14–62, Cl. 271—60.

Goldkamp, Arthur H.: *See*—
Dodson, Raymond M., and Goldkamp. 3,017,418.

Goldkamp, Arthur H., to G. D. Searle & Co. 3-aminoalkyl esters of 17-oxygenated androst-(an and 5-en)-3β-ols. 3,036,067, 5–22–62, Cl. 260—239.5.

Goldkamp, Arthur H., G. D. Searle & Co. 3-alkoxy-17α-alkynyl-16,16-difluoroestra-1,3,5(10)-trien-17β-ols. 3,054,808, 9–18–62, Cl. 260—397.5.

Goldkamp, Arthur H., to G. D. Searle & Co. 3,17-bis-oxygenated 16,16-dihaloestra-1,3,5(10)-trienes. 3,057,885, 10–9–62, Cl. 260—397.4.

Goldman, Arthur: *See*—
Richter, Sidney B., and Goldman. 3,036,114.

Goldman, Bernard M., to Collins Radio Co. Multilevel data communication system having ratio comparison of sampled adjacent bits at the receiver. 3,068,463, 12–11–62, Cl. 340—347.

Goldman, Conrad, and R. Rosenbaum, to Allied Chemical Corp. Process for producing porous polyethylene articles. 3,051,993, 9–4–62, Cl. 18—55.

Goldman, Daniel, to Tracer Control Co. Hydraulic nuts. 3,053,106, 9–11–62, Cl. 74—441.

Goldman, David A.: *See*—
Finkler, Ronald A., Pomerance, Goldman, and Zola. 3,056,111.

Goldman, David H. (deceased), and N. L. Goldman; R. Goldman, executrix of said D. H. Goldman; ½ to N. L. Goldman. Applicator. 3,046,593, 7–31–62, Cl. 15—565.

Goldman, Edward J., to Walworth Co. Ball valve. 3,033,227, 5–8–62, Cl. 137—328.

Goldman, Jerome L., to Friede & Goldman, Inc. New type general cargo carrying ship. 3,038,432, 6–12–62, Cl. 114—72

Goldman, Joseph: *See*—
Finger, Alexander E., and Goldman. 3,051,936.

Goldman, Joshua H. Apparatus for producing a heterogeneous diffusion of fibers. 3,041,676, 7–3–62, Cl. 19—155.

Goldman, Joshua H. Filter construction. 3,042,216, 7–3–62, Cl. 210—494.

Goldman, Joshua H. Fluid filter and method of making same. 3,065,856, 11–27–62, Cl. 210—494.

Goldman, Leon: *See*—
Clark, Joe H., Goldman, Starker, and Paul. 3,047,576.

Goldman, Leon S., 10% to H. C. Herman. Process and equipment for determining microbial sensitivity to anti-microbial agents. 3,043,751, 7–10–62, Cl. 195—103.5.

Goldman, Le Roy: *See*—
Rossi, Josepb V., and Goldman. 3,058,544.

Goldman, Morris. Metal furniture and process for making same. 3,062,571, 11–6–62, Cl. 287—54.

Goldman, Norman L.: *See*—
Goldman, David H. and N. L. 3,046,593.
Goldman, Percy. Portable lawn shower or the like. 3,067,-950, 12–11–62, Cl. 239—276.
Goldman, Robert, to Premo Pharmaceutical Laboratories, Inc. Ethyl cellulose-polyethylene glycol tablet matrix. 3,039,-933, 6–19–62, Cl. 167—82.
Goldman, Robert, to Nysco Laboratories, Inc. Tablet and method of forming same. 3,054,723, 9–18–62, Cl. 167—82.
Goldman, Robert B.: *See*—
Bobb, Lloyd J., Goldman, and Maling. 3,022,377.
Goldman, Rose: *See*—
Goldman, David H. and N. L. 3,046,593.
Goldman, Sylvan N.: *See*—
Young, Fred W. 3,026,122.
Goldmann, Kenneth F., and J. R. Lejk, to Chrysler Corp. Centrifugal compressor and heat exchanger unit. 3,050,-962, 8–28–62, Cl. 62—517.
Goldmark, Peter C., to Minnesota Mining & Mfg. Co. Magnetic recording means. 3,032,612, 5–1–62, Cl. 179—100.2.
Goldmark, Peter C., to Minnesota Mining & Mfg. Co. Magnetic recording apparatus. 3,054,860, 9–18–62, Cl. 129—100.2.
Goldner, Paul, to Midland-Ross Corp. Apparatus for uniform accelerated drying of web material. 3,052,991, 9–11–62, Cl. 34—89.
Goldring, John E., to Modernair Corp. Motion checking cylinder. 3,029,904, 4–17–62, Cl. 188—97.
Goldring, John E., to Modernair Corp. Pneumatically-operated fastener driving machine. 3,035,268, 5–22–62, Cl. 1—44.4.
Goldring, Owen M. Knock down bottle carton construction. 3,054,527, 9–18–62, Cl. 220—113.
Goldsby, Arthur F.: *See*—
Walker, Clifford R., and Goldsby. 3,038,441.
Goldschmidt, Heinrich R., to Imperial Chemical Industries Ltd. New polymeric materials of diboronic acid and derivatives. 3,053,777, 9–11–62, Cl. 260—2.
Goldschmidt, H., & Associates, Inc.: *See*—
Goldschmidt, Hans. 3,051,489.
Goldschmidt, Hans, to H. Goldschmidt & Associates, Inc. Games. 3,051,489, 8–28–62, Cl. 273—136.
Goldschmidt, T. H., A.G.: *See*—
Finkener, Friedrich, Krug, Loges, and Rodewald. 3,022,161.
Holtschmidt, Rosemarie. 3,033,842.
Rossmy, Gerd. 3,069,452.
Goldsmid, Hiroshi J., and A. R. Sheard, to The General Electric Co. Ltd. Preparation of material for thermocouples. 3,017,446, 1–16–62, Cl. 136—5.
Goldsmith, Bernard M., to Nytronics, Inc. Electrical winding construction. 3,024,433, 3–6–62, Cl. 336—92.
Goldsmith, Fred C.: *See*—
McMillen, Richard L., Goldsmith, and Gantz. 3,027,325.
Goldsmith, Fred C., to The Lubrizol Corp. Thioether containing esters of dithiophosphoric acid, and salts thereof. 3,029,268, 4–10–62, Cl. 260—429.9.
Goldsmith, Harry: *See*—
McCloskey, Allen L., English, and Goldsmith. 3,052,641.
Goldsmith, Harry, to United States Borax & Chemical Corp. Method for making aryliborazoles. 3,031,502, 4–24–62, Cl. 260—551.
Goldsmith, Kurt, to Textile Mills Co. Ironing board cover. 3,049,826, 8–21–62, Cl. 38—140.
Goldsmith, Michael N. G.: *See*—
Boswell, Ian I., and Goldsmith. 3,061,779.
Goldsmith, Morris, to Elgen Mfg. Corp. Metal bending method and product. 3,017,694, 1–23–62, Cl. 29—509.
Goldsmith, Morris, and R. R. Stein, to Elgen Mfg. Corp. Swivel units and damper assemblies using same. 3,017,-899, 1–23–62, Cl. 137—601.
Goldsmith, Paul H.: *See*—
McAfee, Robert E., and Goldsmith. 3,043,413.
Goldsmith, Philip H. Adjustable cylinder papermaking machine. 3,021,899, 2–20–62, Cl. 162—329.
Goldsmith, Robert, and P. S. Hess, to General Dispersions Inc. Plastic coated, fluorocarbon resin-impregnated glass fiber cloth tape and method of making the same. 3,023,-120, 2–27–62, Cl. 117—15.
Goldsmith, Thomas L.: *See*—
Clarke, Frank J., and Goldsmith. 3,051,456.
Goldsmith, William F., R. C. Lemon, and A. E. Montagna, to Union Carbide Corp. Production of acrylic and methacrylic esters of polyoxyalkylene compounds. 3,041,371, 6–26–62, Cl. 260—486.
Goldstaub, Henry H., and G. P. Wright, to Electrothermal Engineering Ltd. Flexible electric heater. 3,036,187, 5–22–62, Cl. 219—19.
Goldstein, Alfred: *See*—
Tannenbaum, Wesley, Hudes, and Goldstein. 3,027,425.
Goldstein, Daniel, to Schenley Industries, Inc. Combination container closure and pouring device. 3,059,816, 10–23–62, Cl. 222—109.
Goldstein, Hans L., to Bell Telephone Laboratories, Inc. Alternating current voltage regulator. 3,018,431, 1–23–62, Cl. 323—45.
Goldstein, Herman B., and M. A. Silvestri, to Sun Chemical Corp. Process for the manufacture of urea, glyoxal and formaldehyde reaction product useful for improving cellulosic textile materials. 3,049,446, 8–14–62, Cl. 117—143.
Goldstein, Irving S., and W. A. Dreher, to Koppers Co., Inc. Preservation of wood with creosote fortified with copper compounds. 3,065,087, 11–20–62, Cl. 106—15.
Goldstein, Irving S., and W. J. Oberley, to Koppers Co., Inc. Wood preservative. 3,070,494, 12–25–62, Cl. 167—38.5.
Goldstein, Joel M., and A. H. Katz. Water-soluble hexachlorophene. 3,053,738, 9–11–62, Cl. 167—90.
Goldstein, Raymond, to Sperry Rand Corp. Variable excitation modulator. 3,052,855, 9–4–62, Cl. 332—37.
Goldstone, Edward G., to Allen Industries Inc. Fibrous batts and method of producing the same. 3,049,456, 8–14–62, Cl. 154—46.
Goldthwaite, Val, and K. Schlacht, to Indiana General Corp. Machine for testing and sorting ferromagnetic cores. 3,060,376, 10–23–62, Cl. 324—34.
Goldwater, Franklin A.: *See*—
Steinhardt, David W. 3,029,187.
Goldwater, Robert, and F. B. Calhoun, to Safeway Stores, Inc. Shiftable table assembly with movable contact arm assembly. 3,019,424, 1–30–62, Cl. 340—282.
Goldzwig, David M., to The Joyce-Cridland Co. Supplementary supports for motor vehicle lifts. 3,052,322, 9–4–62, Cl. 187—8.75.
Golec, Edward J., to Sears, Roebuck and Co. Spin-cast fishing reel. 3,069,109, 12–18–62, Cl. 242—84.2.
Golec, Thomas, Jr.: *See*—
Chadwick, Alexander, and Golec. 3,044,262.
Golenpaul, Charles, to Aerovox Corp. Cabinet. 3,053,602, 9–11–62, Cl. 312—201.
Golenpaul, Dan, Associates: *See*—
Ferrer, John J., and Tomaro. 3,058,748.
Golesworthy, Glyn T.: *See*—
Deacon, William, Golesworthy, Hartley, and Martin. 3,029,718.
Golfieri, Oberdan, to Sima-Societa Iesina Macchine Agrarie-Soc. p. Az. Hydraulic gear pumps and motors. 3,055,308, 9–25–62, Cl. 103—126.
Golightly, Francis L., to Wilkinson Sword Ltd. Means controlling the opening of pruning shears and the like. 3,047,-949, 8–7–62, Cl. 30—271.
Golightly, James S., to Pittsburgh Plate Glass Co. Method of bending glass sheets. 3,069,877, 12–25–62, Cl. 65—103.
Golko, Edward H., to John C. Virden Co. Fluorescent lighting fixture. 3,025,391, 3–13–62, Cl. 240—51.11.
Goll, Christian W.: *See*—
Lyons, Hubert W., and Goll. 3,052,340.
Goll, Ernest R., to Braun-Hobar Corp. Bung or stopper. 3,028,036, 4–3–62, Cl. 217—110.
Goll, Otto: *See*—
Schneider, Paul, and Goll. 3,065,196.
Gollhofer, Paul J. Magnifying device. 3,039,350, 6–19–62, Cl. 88—1.
Gollmar, Herbert A., to Koppers Co., Inc. Separation and recovery of H_2S. 3,030,182, 4–17–62, Cl. 23—181.
Gollmar, Herbert A., to Koppers Co., Inc. Method for the separation and recovery of H_2S. 3,035,900, 5–22–62, Cl. 23—181.
Gollwitzer, Lee H.: *See*—
Blizard, Robert B., and Gollwitzer. 3,023,362.
Gollwitzer, Walter T., to Addressograph-Multigraph Corp. Printing machines. 3,060,849, 10–30–62, Cl. 101—235.
Golner, Jerome F.: *See*—
Lee, Richard J., and Golner. 3,053,132.
Golten, Sigurd. Crankshaft grinders. 3,054,233, 9–18–62, Cl. 51—241.
Goltermann and Sabo, Inc.: *See*—
Arndt, Charles J. 3,038,590.
Arndt, Charles J., and Lo Presti. 3,038,588.
Clements, Hilary B. 3,038,571.
Goltermann, Gertrude D. Automatic food slicer. 3,030,842, 4–24–62, Cl. 83—564.
Goltsos, Costas B., M. Mark, and M. E. Stephenson, Jr., to Raytheon Co. Evaporative-gravity cooling systems. 3,024,-298, 3–6–62, Cl. 174—15.
Golub, Samuel J., to Fabric Research Laboratory, Inc. Method of making self-supporting raw silk package. 3,028,109, 4–3–62, Cl. 242—18.
Golubovic, Georges, to The Budd Co. Devices for the determination of mechanical strains. 3,034,341, 5–15–62, Cl. 73—88.
Golz, Herbert C.: *See*—
Wells, James G., and Golz. 3,028,211.
Gombar, Leslie J. Fish lure accessory. 3,021,632, 2–20–62, Cl. 41—10.
Gomco Surgical Mfg. Corp.: *See*—
Henderson, Stanford A. 3,044,466.
Gomella, Cyril, to Societe d'Etudes pour le Traitement et l'Utilisation des Eaux-S.E.T.U.D.E. Method of softening water by ion exchange. 3,019,183, 1–30–62, Cl. 210—30.
Gomella, Cyril, to Societe d'Etudes Pour le Traitement et l'Utilisation des Eaux-S.E.T.U.E. Process for removing mineral constituents from an aqueous liquid. 3,063,924, 11–13–62, Cl. 204—180.
Gomersall, John R.: *See*—
Ogle, James A., Jr., and Gomersall. 3,018,671.
Gomersall, John R., to McGraw-Edison Co. Steam iron. 3,031,781, 5–1–62, Cl. 38—77.
Gomersall, John R., to McGraw-Edison Co. Thermal timer. 3,070,678, 12–25–62, Cl. 200—122.
Gomez, Carlos, and J. R. Victor. Wooden musical toy. 3,019,-553, 2–6–62, Cl. 46—191.

Gomi, Ekiju. Bar charts and graph boards. 3,057,323, 10–9–62, Cl. 116—135.
Gomory, Nanette A., and P. L. Gomory, Jr. Combination screen and pliable film closure. 3,057,401, 10–9–62, Cl. 160—328.
Gomory, Paul L., Jr.: *See*—
Gomory, Nanette A., and P. L. Gomory, Jr. 3,057,401.
Gompper, Johannes. Apparatus for sampling granular or powdery material in bulk. 3,060,746, 10–30–62, Cl. 73—422.
Goncalves, Francis J. Hydraulic valve lifter. 3,058,454, 10–16–62, Cl. 123—90.
Goncharoff, Nikolai, to Motorola, Inc. Crystal oscillator circuit. 3,041,550, 6–26–62, Cl. 331—73.
Gönczy, Jenö: *See*—
Csonka, Lajos, Horkay, Szanto, Szerecz, and Gönczy. 3,042,539.
Gonda, Desire, and E. L. Hawley, to E.P.S. (Research & Development) Ltd. Flexible protective covering sheet material. 3,035,956, 5–22–62, Cl. 154—50.
Gondek, John T. Shaft couplings. 3,016,723, 1–16–62, Cl. 64—27.
Gondek, John T., to United States of America, Navy. Device for loading torpedo tube. 3,037,427, 6–5–62, Cl. 89—45.
Gondek, John T. Two-stage hydraulic pumps. 3,053,186, 9–11–62, Cl. 103—5.
Gondek, Joan T. Relief valve assembly. 3,057,374, 10–9–62, Cl. 137—538.
Gondek, John T. Hydraulic systems. 3,060,688, 10–30–62, Cl. 60—52.
Gondek, Stanley, to Bundy Tubing Co. Push rod structure and method of manufacture. 3,050,045, 8–21–62, Cl. 123—90.
Gondek, Stanley, to Bundy Tubing Co. Push rod structure. 3,060,658, 12–4–62, Cl. 123—90.
Gonetz, Irving. Fluid leak detectors. 3,038,045, 6–5–62, Cl. 200—84.
Gongoll, Vernon F.: *See*—
Hoffmaster, George R., Gongoll, Herbine, and Bohner. 3,060,444.
Sockel, William G., and Gongoll. 3,052,887.
Gongoll, Vernon F., to The Electric Storage Battery Co. Detachable liner for headsets. 3,030,458, 4–17–62, Cl. 179—182.
Gongwer, Calvin A., to Aerojet-General Corp. Method of forming a solid propellant. 3,019,687, 2–6–62, Cl. 86—1.
Gonsalves, Conrad J.: *See*—
Beyer, Jeno, and Gonsalves. 3,017,738.
Gonsalves, Conrad J., to Onderzoekingsinstituut Research, N.V. Cellulose film treating system. 3,058,151, 10–16–62, Cl. 18—15.
Gonsalves, Victor E., to American Enka Corp. Drawtwisting process. 3,025,660, 3–20–62, Cl. 57—157.
Gonsalves, Victor E., to American Enka Corp. Treatment of articles formed from linear polymerization or polycondensation products. 3,061,530, 10–30–62, Cl. 204—154.
Gonzales, Annie H.: *See*—
Oberdorf, George S. 3,061,973.
Gonzales-Pelaez, Manuel, 35% to C. F. Pfeifer and 40% to V. C. Arguimbau. Composition of matter and method of treating fibrous cellulosic materials therewith. 3,020,167, 2–6–62, Cl. 106—229.
Gonzalez, Don J., to American Air Filter Co., Inc. Electrostatic precipitator. 3,016,980, 1–16–62, Cl. 183—7.
Gonzalez, Don J., to American Air Filter Co., Inc. Electrostatic precipitator. 3,018,844, 1–30–62, Cl. 183—7.
Gonzalez, Don J., to American Air Filter Co., Inc. Discharge electrode apparatus for electrostatic precipitators. 3,055,159, 9–25–62, Cl. 55—147.
Gonzalez, Frank H., and J. H. Eisenmann, to Burroughs Corp. Printing apparatus. 3,037,447, 6–5–62, Cl. 101—91.
Gonzalez, Jacques de los S., to Societe Financiere de la Cellulose. Manufacture of containers made of plastic materials or the like. 3,051,209, 8–28–62, Cl. 150—9.
Gonzalez, Reinaldo. Multi-purpose power-driven hand tool. 3,034,376, 5–15–62, Cl. 74—665.
Gonzenbach, Kurt E., to Daystrom, Inc. Recorder with short printer solenoid energization. 3,034,125, 5–8–62, Cl. 346—79.
Gooch, Fred P., to The Sharples Corp. Centrifuges. 3,061,181, 10–30–62, Cl. 233—7.
Goochland Nurseries, Inc.: *See*—
Brown, Robert E. 3,035,751.
Good, Carl D., to Olin Mathieson Chemical Corp. Method for the production of diborane. 3,019,085, 1–30–62, Cl. 23—204.
Good, Carl D., to Olin Mathieson Chemical Corp. Preparation of diborane. 3,036,890, 5–29–62, Cl. 23—204.
Good, Carl D., and R. E. Williams, to Olin Mathieson Chemical Corp. Method for the preparation of sym-triboradimethyne. 3,030,289, 4–17–62, Cl. 204—168.
Good, Donald K., to Read Pratt & Co., Inc. Method of making plastic covered keys for musical instruments. 3,060,074, 10–23–62, Cl. 156—250.
Good, Fred C., to Fred C. Good & Sons, Inc. Windlass. 3,018,934, 1–30–62, Cl. 226—171.
Good, Fred C., to Fred C. Good & Sons, Inc. Windlass. 3,055,638, 9–25–62, Cl. 254—150.
Good, Fred C., & Sons, Inc.: *See*—
Good, Fred C. 3,018,934.
Good, Fred C. 3,055,638.
Good, George M.: *See*—
Wilson, William B., and Good. 3,051,645.
Good, Louis G., to Panellit, Inc. Multi-range fluid flow measuring apparatus. 3,037,384, 6–5–62, Cl. 73—211.
Good, Paul F., to Speedco, Inc. Sausage packaging machine. 3,067,558, 12–11–62, Cl. 53—252.
Good, Richard S. J., D. F. Walker, and D. T. N. Williamson, to Ferranti, Ltd. Servo-controlled drives. 3,051,140, 8–28–62, Cl. 121—45.
Good Roads Machinery Corp., The: *See*—
Hanson, Harry I., and Hoge. 3,036,326.
Good, Theodore W. Self propelled float apparatus. 3,062,174, 11–6–62, Cl. 115—22.3.
Good, Wayne W., to Horter Corp. Chairs. 3,029,108, 4–10–62, Cl. 297—420.
Good, William E., and T. T. True, to General Electric Co. Remote control device responsive to continuous wave signals and unresponsive to amplitude modulated type signals. 3,037,170, 5–29–62, Cl. 328—150.
Goodacre, Cecil, to Lansing Bagnall Ltd. Vehicle steering mechanisms. 3,059,944, 10–23–62, Cl. 280—95.
Goodall, Donald G., and J. C. H. J. Lepers, to Rolls-Royce Limited and Sud-Aviation, Societe Nationale de Constructions Aeronautiques. Fuel heating system for a gas turbine engine. 3,049,878, 8–21–62, Cl. 60—39.07.
Goodall, Donald G., N. G. Hatton, and N. Roberts, to Rolls-Royce Ltd. Air intakes for supersonic aircraft. 3,067,578, 12–11–62, Cl. 60—35.6.
Goodall Mfg. Corp.: *See*—
Egloff, William C., and Dahl. 3,037,582.
Goodall, Robert J., to Albion Industries, Inc. Torsional caster. 3,041,656, 7–3–62, Cl. 16—44.
Goodban, Alan E., and J. B. Stark, to United States of America, Agriculture. Countercurrent extraction processes. 3,047,430, 7–31–62, Cl. 127—45.
Goodchild, Denis J., and J. D. Knowles, to Eastman Kodak Co. Photographic silver halide diffusion transfer process. 3,053,657, 9–11–62, Cl. 96—29.
Goode, Rexford F.: *See*—
Hovda, Robert E., Goode, and Roehl. 3,062,955.
Goode, Walter B., Jr.: *See*—
Cable, Robert E., Goode, Henderson, and Montillon. 3,041,266.
Goode, William E., to Rohm & Haas Co. Anionic polymerization of vinylidene compounds. 3,032,542, 5–1–62, Cl. 260—89.5.
Goodell, Everett M.: *See*—
Lakatos, Emory, and Goodell. 3,045,231.
Pidhayny, Denny D., Lakatos, and Goodell. 3,052,882.
Goodell, John D., to Standard Packaging Corp. Smoker's article. 3,029,824, 4–17–62, Cl. 131—240.
Goodell, John D., and E. F. Shelley, to U.S. Industries, Inc. Method and apparatus for teaching physiological selection skills. 3,021,611, 2–20–62, Cl. 35—6.
Goodell, John D., T. N. Tengsater, and E. F. Shelley, to U.S. Industries, Inc. Automatic manipulator apparatus. 3,051,327, 8–28–62, Cl. 214—1.
Goodemoot, Kenneth, and R. J. Turner, to American Cyanamid Co. Process for condensation of sulfanilamide with halodiazines. 3,055,886, 9–25–62, Cl. 260—239.7.
Goodenough, John R., to The National Cash Register Co. Material deflection indicator means. 3,058,224, 10–16–62, Cl. 33—169.
Goodenough, Robert D., to The Dow Chemical Co. Removal of sodium sulfate from caustic salt. 3,017,245, 1–16–62, Cl. 23—89.
Goodenough, Robert D., to The Dow Chemical Co. Method of producing strontium carbonate and strontium sulfate from brines containing calcium and strontium halides. 3,029,133, 4–10–62, Cl. 23—66.
Goodenough, Robert D., to The Dow Chemical Co. Bromatebromide-bisulfate antimicrobial composition. 3,058,875, 10–16–62, Cl. 167—17.
Goodenough, Robert D., and V.A. Stenger, to The Dow Chemical Co. Chromate pigments. 3,070,456, 12–25–62, Cl. 106—302.
Goodenow, Wayne B., B. Smith, and R. W. Young, to Continental Oil Co. Apparatus for determination of seismic data corrections. 3,032,271, 5–1–62, Cl. 235—193.
Goodhouse, Carl J., to General Time Corp. Switch actuating timer. 3,020,772, 2–13–62, Cl. 74—54.
Goodhouse, Carl J., to General Time Corp. Switch actuating timer. 3,057,973, 10–9–62, Cl. 200—38.
Goodhouse, Carl J., and C. M. J. Jauch, to General Time Corp. Pushbutton timing device. 3,025,365, 3–13–62, Cl. 200—38.
Goodhue, Lyle D., R. P. Louthan, and K. E. Cantrel, to Phillips Petroleum Co. Trithiocarbonates as bird repellents. 3,023,142, 2–27–62, Cl. 167—46.
Goodhue, Lyle D., and K. E. Cantrel, to Phillips Petroleum Co. Insect-repellant composition comprising 3-chloropropyl n-octyl sulfoxide and 2-hydroxy propyl n-octyl sulfide. 3,034,950, 5–15–62, Cl. 167—22.
Goodhue, Lyle D., and K. E. Cantrel, to Phillips Petroleum Co. N-oxides of heterocyclic nitrogen compounds as bird and roden repellents. 3,044,930, 7–17–62, Cl. 167—46.
Goodhue, Lyle D., and K. E. Cantrel, to Phillips Petroleum Co. Diyne diols as bird repellents. 3,055,803, 9–25–62, Cl. 167—46.
Goodhue, Lyle D., R. P. Louthan, and R. E. Stansbury, to Phillips Petroleum Co. Method of repelling insects with sulfoxides. 3,060,081, 10–23–62, Cl. 167—22.

Goodhue, Lyle D., K. E. Cantrel, and R. P. Louthan, to Phillips Petroleum Co. Insect combatting agent. 3,067,093, 12–4–62, Cl. 167—30.

Goodhue, William V., and F. W. Higgins, to Leesona Corp. Winding machine. 3,044,722, 7–17–62, Cl. 242—39.

Goodier, George N., and W. L. Wuster, to United States of America, Navy. Regulated high voltage power supply. 3,036,078, 9–25–62, Cl. 323—66.

Gooding, Chester M., to Corn Products Co. Winterization process. 3,048,491, 8–7–62, Cl. 99—118.

Gooding, Walter F.: *See*—
Bell, Raymond M., Gooding, Wellman, and McDevitt. 3,045,560.

Gooding, Willard H., to Western Velo & Cement Specialties Co. Bulk bags. 3,028,895, 4–10–62, Cl. 150—1.

Gooding, Willard H., to Western Velo & Cement Specialties Co. Bulk containers. 3,028,896, 4–10–62, Cl. 150—1.

Gooding, Willard H., to Western Velo & Cement Specialties Co. Bulk bags. 3,028,897, 4–10–62, Cl. 150—1.

Gooding, Willard H., to Western Velo & Cement Specialties Co. Bulk sacks. 3,028,898, 4–10–62, Cl. 150—1.

Goodlaxson, John D., to The Maytag Co. Dispenser. 3,057,181, 10–9–62, Cl. 68—207.

Goodloe, Alfred M.: *See*—
Cohen, Albert H., and Goodloe. 3,032,849.

Goodloe, Alfred M., to Metal Textile Corp. Compressible metal gasket and method of making same. 3,033,722, 5–8–62. Cl. 154—46.

Goodloe, Durrill L. Device for opening eggs. 3,036,610, 5–29–62, Cl. 146—2.

Goodman, Abraham, to Universal Trimming Co. Loudspeaker screen and process for making same. 3,066,381, 12–4–62, Cl. 28—78.

Goodman, Abraham, to Delamere Co., Inc. Flexible comb with integral latch. 3,066,684, 12–4–62, Cl. 132—46.

Goodman, L. D. Grundine, Jr., and W. G. Vosburgh, to E. I. du Pont de Nemours and Co. Acrylonitrile polymerization. 3,060,157, 10–23–62, Cl. 260—79.3.

Goodman, Alex, and M. Gertler, to United States of America, Navy. Planar motion mechanism and system. 3,052,120, 9–4–62, Cl. 73—148.

Goodman, Earl H. Handy holder for newspapers. 3,065,565, 11–27–62, Cl. 45—85.

Goodman, Gilbert, to General Electric Co. Dielectric compositions. 3,069,275, 12–18–62, Cl. 106—39.

Goodman, Guy H., 49% to A. J. E. Beard. Thermal current driven power generating apparatus. 3,048,006, 8–7–62, Cl. 60—26.

Goodman, H., & Sons, Inc.: *See*—
Sidelman, Abraham. 3,050,070.

Goodman, Henry G., Jr., to Union Carbide Corp. Certain N-methylol-N-(3-methylol imidazolidon-2-yl) ethyl acylamides and process. 3,024,246, 3–6–62, Cl. 260—309.7.

Goodman, Herman: *See*—
Miwa, Yukio. 3,049,974.

Goodman, Irving: *See*—
Hitchings, George H., Ellon, and Goodman. 3,050,517.

Goodman, Joseph J.: *See*—
Origoni, Victor E., Rigler, and Goodman. 3,047,468.
Smith, Leland L., Mendelsohn, and Goodman. 3,063,989.

Goodman, Joseph J., to American Cyanamid Co. Fermentation of tetracycline. 3,037,916, 6–5–62, Cl. 195—80.

Goodman, Joseph J., to American Cyanamid Co. Fermentation of chlortetracycline and demethylchlorotetracycline. 3,050,446, 8–21–62, Cl. 195—80.

Goodman, Joseph J., and M. Matrishin, to American Cyanamid Co. Production of 7-chloro-6-demethyltetracycline. 3,019,172, 1–30–62, Cl. 195—80.

Goodman, Joseph L., to Westinghouse Electric Corp. Plural channel amplitude discriminator having differentiator means in each channel and a common output. 3,018,442, 1–23–62, Cl. 328—150.

Goodman Mfg. Co.: *See*—
Arndt, Charles J. 3,049,219.
Arndt, Charles J. 3,062,361.
Arndt, Charles J., and Lo Presti. 3,062,360.
Arndt, Charles J., and Stone. 3,058,575.
Beck, William R., and Hagenbook. 3,053,404.
Bergmann, Ernst R. 3,047,279.
Biedess, Anthony R. 3,048,287.
Bledess, Anthony R. 3,050,158.
Evans, Nolan E., and Hlinsky. 3,025,042.
Gianukos, James V. 3,058,574.
Hlinsky, Emil J., and Lundquist. 3,050,293.
Huber, William J. 3,058,272.
Lo Presti, Roy F. 3,029,928.
Lo Presti, Roy F. 3,049,220.
Lo Presti, Roy F. 3,058,573.
Lo Presti, Roy F. 3,070,217.
Lo Presti, Roy F. 3,070,218.
Lundquist, Richard C. 3,050,291.
Lundquist, Richard C., and Dekan. 3,035,822.
Newton, John S. 3,023,882.
Newton, John S., and Lundquist. 3,050,292.
Risse, Ralph F. 3,041,055.
Risse, Ralph F. 3,070,220.
Robbins, James S. 3,061,287.
Robbins, James S. 3,061,288.
Robbins, James S. 3,061,289.
Roley, Robert N. 3,055,487.
Silks, Walter. 3,032,159.

Goodman, Norman H., to Triumph Hosiery Mills, Inc. Full-fashioned girdle and method of making same. 3,043,123, 7–10–62, Cl. 66—176.

Goodman, Raymond M.: *See*—
Haverstock, Julius J., and Goodman. 3,017,758.

Goodman, Robert. Support spring construction. 3,031,183, 4–24–62, Cl. 267—110.

Goodman, Robert. Convertible bed construction. 3,049,724, 8–21–62, Cl. 5—35.

Goodman, Robert C.: *See*—
Kottman, Joseph J., and Goodman. 3,033,433.

Goodman, Robert M. Apparatus for accumulating numerical data. 3,023,957, 3–6–62, Cl. 235—92.

Goodman, Robert M., and J. H. Busser, to American Electronic Laboratories. Apparatus for color analysis. 3,066,570, 12–4–62, Cl. 88—14.

Goodner, Monroe H., to Stephenson Corp. Apparatus for selectively providing controlled breathing or assisted breathing. 3,057,346, 10–9–62, Cl. 128—29.

Goodner, Monroe H., to Stephenson Corp. Method and apparatus for supplying and exhausting or exchanging a controlled volume of gas. 3,058,460, 10–16–62, Cl. 128—29.

Goodner Van Engineering Co.: *See*—
Macklin, Charles R. 3,020,087.

Goodness, Francis E.: *See*—
Usher, Ralph E., Conway, and Goodness. 3,045,095.

Goodnews Bay Mining Co.: *See*—
Dunkle, Wesley E. 3,031,773.

Goodrich, B. F., Co., The: *See*—
Adinoff, Bernard, and Wilson. 3,068,523.
Arnold, Lawrence F. 3,066,113.
Colley, Russell S. 3,067,425.
Diem, Hugh E. 3,049,528.
Fedorowicz, Joseph S. 3,032,789.
Formanek, Robert J. 3,028,902.
Garbin, Albert J., and Gummer. 3,049,460.
Garrett, Robert Y. 3,047,548.
George, Paul J., and Frederick. 3,025,284.
Gilbert, Harry, and Wootton. 3,031,253.
Gill, Ray H. 3,030,705.
Gitzinger, Harry F. 3,027,289.
Gross, Malcolm E. 3,066,060.
Haas, Willard, and Fuller. 3,037,343.
Hasselquist, Victor H. 3,019,018.
Hasselquist, Victor H. 3,037,548.
Hendry, Charles M., and Gregg. 3,070,599.
Herzegh, Frank. 3,060,733.
Holaday, Joseph M. 3,026,531.
Jansen, Jacob E., and Kehe. 3,022,269.
Jones, John F. 3 030,343.
Jones, John F. 3,066,118.
Lessig, Edward T. 3,011,684.
Lessig, Edward T. 3,028,903.
Murphy, Walter T. 3,033,825.
Pennino, Charles J. 3,027,402.
Pond, James W. 3,017,308.
Riddle, William J. 3,062,270.
Riddle, William J. 3,070,478.
Riddle, William J., and Mullender. 3,057,397.
Rinker, William R., and McGilvrey. 3,055,279.
Schollenberger, Charles S. 3,015,650.
Schollenberger, Charles S., and Jones. 3,030,249.
Schornstheimer, Robert E. 3,057,759.
Schornstheimer, Robert E. 3,070,481.
Shipman, James J., and Smith. 3,031,428.
Spaulding, David C., and Horne. 3,032,538.
Summers, Robert M. 3,032,522.
Talalay, Leon. 3,028,610.
Talalay, Leon. 3,031,427.
Van Horn, Russell F. 3,061,050.
Werber, Frank X. 3,056,818.
Werber, Frank X., and Averill. 3,056,817.
Wherley, Fred J. 3,047,517.
Woodard, Harry W., Smith, and Kruger. 3,028,040.
Yoho, John R. 3,044,534.

Goodrich, Clarence I., Jr.: *See*—
Edens, Samuel V., Goodrich, and Seals. 3,047,762.

Goodrich, Edward O., Jr. Surgical mask. 3,058,463, 10–16–62, Cl. 128—139.

Goodrich-Gulf Chemicals, Inc.: *See*—
Hazen, Stanley M., and Meyer. 3,046,265.
Kreider, Leonard C., and Mason. 3,064,027.
Miller, Floyd F., and Ekar. 3,058,971.
Walde, Robert A. 3,016,397.
Walde, Robert A. 3,048,612.

Goodrich, John C.: *See*—
Sidney, Milton M., and Goodrich. 3,057,058.

Goodrich, Judson E.: *See*—
Dreher, John L., and Goodrich. 3,025,241.

Goodrie, Raymond T., to Wrightway Engineering Co. Fluid mixing device. 3,031,147, 4–24–62, Cl. 239—431.

Goodson, Michael: *See*—
Seiler, William. 3,027,637.

Goodson, Rex E. Chain saw guard. 3,040,790, 6–26–62, Cl. 143—159.

Goodwin, A. D., & Son, Inc.: *See*—
Triplett, Frank W. 3,063,523.

Goodwin, Albert E.: *See*—
Buzzelli, Frank D., Goodwin, and Siden. 3,057,365.

Goodwin, Alfred J.: *See*—
Halsell, Charles M., and Goodwin. 3,026,706.

Goodwin, Carl W., and J. P. Campanelli, to The American Seal-Kap Corp. of Delaware. Apparatus for making paper containers. 3,054,144, 9–18–62. Cl. 18—19.
Goodwin, Charles M. Weather strip. 3,041,681, 7–3–62, Cl. 20—69.
Goodwin, Charles M. Receptacle bracket. 3,042,354, 7–3–62, Cl. 248—205.
Goodwin, Charles M. Toilet flush control. 3,047,882, 8–7–62, Cl. 4—67.
Goodwin, Edwin C., Jr., to Allis-Chalmers Mfg. Co. Integrated racking and contact controlling mechanism for circuit breakers. 3,019,309, 1–30–62. Cl. 200—50.
Goodwin, Edwin C., Jr., to Allis-Chalmers Mfg. Co. Manually controlled contact actuating mechanism. 3,021,400, 2–13–62. Cl. 200—50.
Goodwin, Francis E., to Hughes Aircraft Co. Current driving circuit. 3,026,454, 3–20–62, Cl. 317—123.
Goodwin, Francis E., and J. Sur, to Hughes Aircraft Co. Electronically scanned antenna system. 3,041,605, 6–26–62, Cl. 343—100.
Goodwin, Harlan F., R. S. Labounty, and Lysik, to Nashua Corp. Method and apparatus for applying sealed wrappings. 3,066,459, 12–4–62, Cl. 53—14.
Goodwin, John H., to Overly Mfg. Co. Roof construction. 3,053,147, 9–25–62, Cl. 50—200.
Goodwin, Joseph T. Work table for copying machine. 3,053,-007, 9–11–62. Cl. 45—86.
Goodwin, Mack C., to Burroughs Corp. Record supply mechanism. 3,044,724, 7–17–62, Cl. 242—55.
Goodwin, Ralph H., to The Western States Machine Co. Automatically regulated friction brake control system for centrifugal machines and the like. 3,031,039, 4–24–62, Cl. 188—181.
Goodwin, Richard M., to General Motors Corp. Filament tension regulating apparatus. 3,026,064, 3–20–62, Cl. 242—156.
Goodwin, Richard M., to General Motors Corp. Solder feeding apparatus. 3,027,858, 4–3–62, Cl. 113—94.
Goodwin, Robert J., to Gulf Research & Development Co. Device for perforating casing of a well and cracking cement surrounding the casing. 3,045,753, 7–24–62, Cl. 166—55.
Goodwine, Don F., to Pacific Automation Products, Inc. Method of curing thermosetting jackets on multiconductor cables. 3,041,673, 7–3–62, Cl. 18—53.
Goodyear Aircraft Corp.: *See* —
Alspach, Hardin S.; Gamble, Hampshire, Mellinger, and Musch. 3,044,117.
Bozzacco, Francis A. 3,047,442.
Bushnell, Robert H., and Chimera. 3,019,434.
Schmidt, Clarence J. 3,043,054.
Schmidt, Clarence J. 3,061,977.
Sickles, Ralph E. 3,060,059.
Stricker, Edward G. 3,060,852.
Titus, Richard K. 3,047,507.
Goodyear, Charles R., to Holley Carburetor Co. Flow control. 3,017,902, 1–23–62, Cl. 138—37.
Goodyear Tire & Rubber Co., The: *See*—
Andresen, Gilbert J. C. 3,016,460.
Appleby, Paul E. 3,047,048.
Braden, William D. 3,057,566.
Byrd, Norman R. 3,047,544.
Campbell, William H. 3,062,257.
Clark, Harold H. 3,038,525.
Clark, William A. 3,041,659.
Di Nunzio, James J. 3,042,948.
Garrett, John E. 3,021,747.
Gates, George H., and Finell. 3,022,257.
Gerstenmaier, John H., Leo, Miller, and Shaul. 3,042,-974.
Grote, Warren B. 3,050,098.
Hardman, Albert F. 3,022,300.
Hardman, Albert F., and Hamill. 3,062,825.
Herman, Eugene T. 3,025,576.
Hilliard, Donald A. 3,038,869.
Hirtreiter, Arthur B. 3,043,582.
Hirzel, Edgar A. 3,038,559.
Hylbert, Edgar W., Jr. 3,052,275.
Kominik, Walter E. 3,034,206.
Lafaye, Hilton J. 3,034,598.
Lafaye, Hilton J. 3,052,017.
Lal, Joginder. 3,038,889.
Lal, Joginder. 3,062,789.
Leshin, Richard. 3,040,329.
Lichty, Joy G. 3,027,351.
Lockhart, Stanford C., and Frayer. 3,043,927.
Mayor, Rowland H., Leshin, and Wargotz. 3,047,559.
McClure, Earl F. 3,015,854.
Meier, Charles N. 3,021,423.
Pace, Henry A. 3,016,356.
Pengilly, Brian W. 3,047,539.
Pengilly, Brian W. 3,062,786.
Piirma, Aleksander. 3,047,515.
Rice, Vernon E. 3,015,844.
Riehl, Theodore A. 3,062,696.
Riggs, Mart B. 3,025,569.
Rogers, Thomas H., Jr., and Peabody. 3,061,885.
Ruof, Edgar J. 3,026,148.
Ruof, Edgar J. 3,034,836.
Rye, Grover W. 3,034,431.
Saltman, William M. 3,026,313.
Sanderson, William M. 3,025,902.
Shaul, Theodore E. 3,042,969.
Goodyear Tire & Rubber Co., The: *See*—Continued
Smith, Edwin S. 3,022,281.
Snyder, Carl E., Seeger, Fauser, Finelli, and Lovell. 3,043,807.
Snyder, Robert F. 3,031,560.
Snyder, Robert F. 3,038,983.
Snyder, Robert F. 3,038,984.
Spacht, Ronald B. 3,028,297.
Spacht, Ronald B. 3,031,281.
Spacht, Ronald B. 3,034,879.
Spacht, Ronald B. 3,035,015.
Spacht, Ronald B. 3,062,761.
Sudman, Charles F. 3,016,318.
Sutton, Robert W., and Reynolds. 3,026,070.
Tschudy, Donald B. 3,024,603.
Vaughan, Paul J. 3,047,404.
Waller, Richard C., and Shaffer. 3,034,920.
Waters, Lawrence E. 3,022,412.
Wilson, Farris H., Jr. Re. 25,260.
Wisberger, Paul M. 3,024,525.
Yakubik, Michael A. 3,038,828.
Yakubik, Michael A. 3,049,761.
Yazell Harold N., Jr., and Hawley. 3,052,327.
Goodyear, Carl L., and H. W. Pearsall, to General Motors Corp. Method of coating aluminum. 3,022,193, 2–20–62, Cl. 117—50.
Googin, John M., to United States of America, Atomic Energy Commission. Preparation of UO_2 for nuclear reactor fuel pellets. 3,037,839, 6–5–62, Cl. 23—14.5.
Goold, Robert D.: *See*—
Abrams, Irving M., Benezra, and Goold. 3,028,361.
Goolsby, Robert L. Directive reading lamp. 3,062,954, 11–6–62, Cl. 240—46.03.
Goorissen, Jan, to North American Philips Co., Inc. Method for treating materials having a high surface tension in the molten state in a crucible. 3,067,139, 12–4–62, Cl. 252—62.3.
Goorissen, Jan and J. A. Maninfveld, to North American Philips Co., Inc. Method of producing electrode material for semiconducting devices. 3,062,691, 11–6–62, Cl. 148—1.5.
Goos, Arthur H., Jr., and M. A. Trepanier, to The Dow Chemical Co. Mixing apparatus. 3,051,454, 8–28–62, Cl. 259—6.
Goosman, Herbert J., to The Singer Mfg. Co. Needle bar mounting for zigzag sewing machines. 3,058,436, 10–16–62, Cl. 112—158.
Goosmann, Fred H. Means for securing screening to building gutters. 3,067,881, 12–11–62, Cl. 210—474.
Goossens, Henri J. H., to Stookunie N.V. Pressure regulating device for oil burners. 3,070,113, 12–25–62. Cl. 137—116.
Goossens, Henri J. H., to Stookunie N.V. Oilburners. 3,070,-151, 12–25–62, Cl. 158—28.
Goostree, Merle B. Flush mechanism. 3,025,530, 3–20–62, Cl. 4—56.
Göpel, Georg: *See*—
Diemel, Heinrich, and Göpel. 3,060,469.
Gopfert, Herbert: *See*—
Bonisch, Josef, Gopfert, and Planert. 3,017,804.
Gopher Motor Rebuilding, Inc.: *See*—
Smith, John R. 3,063,410.
Goppel, Johan M.: *See*—
de Jong, Johan R., and Goppel. 3,030,350.
Gora, Henry Z., to Anchor Hocking Glass Corp. Apparatus for making composite articles. 3,015,843, 1–9–62, Cl. 18—5.
Gora, Henry Z., to The Eagle-Picher Co. Mold for molding articles. 3,048,894, 8–14–62, Cl. 18—36.
Goral, Ernest W., to General Dynamics Corp. Method and apparatus for maintaining contact noise in an electrical switching device at a minimum level. 3,035,141, 5–15–62, Cl. 200—166.
Goran, Leo, Jr., to Avis Industrial Corp. Apparatus for handling small articles. 3,063,213, 11–13–62. Cl. 53—244.
Gorand, Alfred J., to Sun Oil Co. Compressor safety device. 3,026,888, 3–27–62. Cl. 137—13.
Gorand, Alfred J., and C. H. Brooks, to Sun Oil Co. Shipping container. 3,018,021, 1–23–62, Cl. 222—152.
Goransson, Rolf E., and G. I. R. Johansson, to Casius Corp. Ltd. Plant for the manufacture of cellular light weight building elements. 3,042,988, 7–10–62, Cl. 25—2.
Gore, Betty A.: *See*—
Gore, Johnny F. and B. A. 3,036,286.
Gore, Johnny F. and B. A.; said B. A. Gore assor. to said J. F. Gore. Hot line clamp. 3,036,286, 5–22–62, Cl. 339—109.
Gordon, Benjamin E., and F. E. Weir, to Shell Oil Co. Radiation-resistant lubricant composition. 3,041,282, 6–26–62, Cl. 252—46.4.
Gordon, Bernard M.: *See*—
Anfenger, Eli, and Gordon. 3,034,719.
Gordon, Bernard M., to Epsco, Inc. Frequency sensitive apparatus. 3,038,130, 6–5–62, Cl. 332—9.
Gordon, Bernard M., to Epsco, Inc. System for measuring the weight of dynamic loads. 3,063,635, 11–13–62, Cl. 235—151.
Gordon, Bernard M., to Epsco, Inc. Frequency converting system and method. 3,068,461, 12–11–62, Cl. 340—347.
Gordon, Bernard M., and R. P. Talambiras, to Epsco, Inc. Signal amplitude comparator. 3,063,018, 11–6–62, Cl. 328—147.
Gordon Building Materials, Inc.: *See*—
Gordon, Simon R. 3,067,058.
Gordon, Carroll G. Electro-hydraulic servo valves. 3,018,-795, 1–30–62, Cl. 137—623.

Gordon, Carroll G., ½ to W. F. Stoesser. Electro-hydraulic servo valve. 3,019,805, 2–6–62, Cl. 137—83.
Gordon, Carroll G. Hydraulic servo valves. 3,052,263, 9–4–62, Cl. 137—624.
Gordon, Charles B.: *See*—
Robson, Norman S., and Gordon. 3,025,929.
Gordon, Charles W., to Combustion Engineering, Inc. Panel mounting for steel cased furnaces. 3,049,200, 8–14–62, Cl. 189—34.
Gordon, Charles W., and R. G. Tucker, to Combustion Engineering, Inc. Mixed refuse incinerator using traveling grate stoker and water cooled feed chute. 3,031,982, 5–1–62, Cl. 110—8.
Gordon, Charles W., R. S. Manne, and M. R. Morrow, to Esso Research and Engineering Co. Production of color-stable kerosene by hydrofining followed by hypochlorite treatment. 3,052,625, 9–4–62, Cl. 208—190.
Gordon Co., The: *See*—
Stack, Vernon T. 3,055,199.
Gordon, Dale, Designs, Inc.: *See*—
Schultz, Dale G. 3,032,965.
Schultz, Dale G. 3,058,793.
Gordon, David A., to The Dow Chemical Co. Polyesters. 3,047,536, 7–31–62, Cl. 260—47.
Gordon, David A., to The Dow Chemical Co. Aralkyl ether. 3,049,242, 10–23–62, Cl. 260—611.
Gordon, David A., to The Dow Chemical Co. Haloethylene polymers stabilized with esters of polycarboxylic acids. 3,068,196, 12–11–62, Cl. 260—45.85.
Gordon, Dwight M., to ACF Industries, Inc. Idle system. 3,025,040, 3–13–62, Cl. 261—39.
Gordon, Eliot G., and O. König, to National Lead Co. Stabilized vinyl halide resins. 3,050,499, 8–21–62, Cl. 260—45.7.
Gordon, Emanuel: *See*—
Jaspan, Philip E., Gordon, and Holden. 3,019,139.
Gordon, Eugene L.: *See*—
Ashkin, Arthur, and Gordon. 3,054,964.
Gordon, Frank D., to Brothers, Inc. Survival vessel. 3,044,082, 7–17–62, Cl. 9—4.
Gordon, George: *See*—
Rodgers, John T. 3,054,328.
Gordon, George A. D., H. W. Taylor, and J. M. L. Wood, to S. Smith & Sons (England) Ltd. Ultrasonic testing. 3,050,988, 8–28–62, Cl. 73—67.5.
Gordon, George F., to Sanders Associates, Inc. Multi-ply flexible wiring unit. 3,057,952, 10–9–62, Cl. 174—117.
Gordon, George F., and H. R. Durocher, to Sanders Associates, Inc. Electrical connection means. 3,025,339, 3–13–62, Cl. 174—84.
Gordon, Harry L.: *See*—
Civitelli, Gennaro. 3,052,950.
Gordon, Howard A., to Sharon Steel Corp. Scarfing nozzle cover. 3,061,297, 10–30–62, Cl. 266—23.
Gordon, Howard L. H.: *See*—
Carstensen, Lorenz W. F. 3,060,465.
Gordon, Irving, and C. F. Baranauckas, to Hooker Chemical Corp. Tris (α-hydroxy-B,B-richloroethyl) phosphine and fungicide". 3,054,718, 9–18–62, Cl. 167—22.
Gordon, Irwin: *See*—
Stoller, Arthur I., and Gordon. 3,047,429.
Gordon, Jack C. Resilient article and method of manufacture thereof. 3,051,608, 8–28–62, Cl. 156—339.
Gordon, James F., to Pacific Scientific Co. Expanded scale meter. 3,030,580, 4–17–62, Cl. 324—131.
Gordon, James F., to Pacific Scientific Co. Servomotor control circuit. 3,030,563, 4–17–62, Cl. 318—28.
Gordon, James F., to Beckman Instruments, Inc. Position indicator. 3,067,935, 12–11–62, Cl. 235—103.
Gordon, Jerry: *See*—
Green, James H., Jr., and Gordon. 3,069,657.
Gordon, John E.: *See*—
Drain, James A., Read, and Gordon. 3,023,044.
Pitchett, Gilmer T., Gordon, and Shepherd. 3,051,702.
Gordon, Joseph P., and to Space Technology Laboratories, Inc. Coaxial tuning device. 3,061,803, 10–30–62, Cl. 333—82.
Gordon, Joseph: *See*—
Anello, Louis G., Gordon, and Woolf. 3,062,902.
Gordon, Joseph, and B. Sukornick, to Allied Chemical Corp. Process for producing nitrogen trifluoride. 3,055,817, 9–25–62, Cl. 204—157.
Gordon, Keith M., D. E. Clark, and T. P. Barnard, to Miniature Precision Bearings, Inc. Bearing vibration and noise tester. 3,023,604, 3–6–62, Cl. 73—9.
Gordon, Leland S., to Robert H. Clark Co. Finishing and roughing bar. 3,030,829, 4–24–62, Cl. 77—58.
Gordon, Leon B., and T. P. Moote, to Standard Oil Co. Catalyst for polymerization of olefins. 3,036,016, 5–22–62, Cl. 252—429.
Gordon, Leonard J.: *See*—
Miller, James D., Gordon, and Davis. 3,043,898.
Gordon, Maxwell, to Smith Kline & French Laboratories. Substituted piperidinylalkyl phenothiazines. 3,063,996, 11–13–62, Cl. 260—243.
Gordon, Maxwell, and B. M. Sutton, to Smith Kline & French Laboratories. Benzmorphan derivatives. 3,033,867, 5–8–62, Cl. 260—285.
Gordon, Paul G.: *See*—
Brandenburg, John F., and Gordon. 3,039,921.
Gordon, Philip N.: *See*—
Maxwell, Charles E., III, and Gordon. 3,056,798.
Rennhard, Hans H., Conover, Gordon, and Stephens. 3,043,876.
Gordon, Philip N., to Chas. Pfizer & Co., Inc. N-dealkylation of carboxamido-N-alkyl-tetracycline and its analogs. 3,029,-2-4, 4–10–62, Cl. 260—559.
Gordon, Philip N., C. R. Stephens, Jr., M. M. Noseworthy, and F. W. Teare, to Chas. Pfizer & Co., Inc. Therapeutic compositions comprising polyhydric alcohol solutions of tetracycline-type antibiotics. 3,017,323, 1–16–62, Cl. 167—65.
Gordon, Richard C., Jr.: *See*—
Carstensen, Lorenz W. F. 3,060,465.
Gordon, Richard O., and J. B. Keir, to Vickers Inc. Power transmission. 3,016,708, 1–16–62, Cl. 60—52.
Gordon, Robert. Temperature control system. 3,024,007, 3–6–62, Cl. 257—283.
Gordon, Robert B.: *See*—
Hurford, Walter J., Gordon, and Johnson. 3,070,527.
Gordon, Robert J.: *See*—
Handschy, John, Gordon, and Moore. 3,050,453.
Gordon, Rollin M., and G. W. Burchard, Jr. Art of adhesives, products of plywood and laminates in which said adhesive is the bonding agent. 3,066,062, 11–27–62, Cl. 154—45.9.
Gordon, Samuel: *See*—
Cantrall, Edward W., Gordon, and Bernstein. 3,060,204.
Gordon, Saul, and C. Campbell, to United States of America, army. Automatic electronic buret. 3,018,654, 1–30–62, Cl. 73—23.
Gordon, Simon R., to Gordon Building Materials, Inc. Protective coating on a substrate. 3,067,058, 12–4–62, Cl. 117—70.
Gordon, Thomas J., Jr., to Halliburton Co. Acidizing of wells. 3,070,164, 12–25–62, Cl. 166—41.
Gordon, Tullus B., to Marine Construction & Design Co. Powered warping block for hauling crab pots and the like. 3,034,767, 5–15–62, Cl. 254—139.1.
Gordon, Walter H., Jr., to General Electric Co. Food warming chafer. 3,028,458, 6–5–62, Cl. 219—44.
Gordon, William E., to Consolidation Coal Co. Explosive compositions containing ammonium nitrate. 3,046,888, 7–31–62, Cl. 102—22.
Gordon, William J., and C. S. Marden, to Eastern Co. Boat fender. 3,055,335, 9–25–62, Cl. 114—219.
Gordon, William J. J.: *See*—
Lincoln, John W., and Gordon. 3,020,811.
Gordon, William J. J., J. W. Lincoln, and C. R. Sperry, to Johnson & Johnson. Dispenser. 3,035,299, 5–22–62, Cl. 15—257.
Gore, George L. Casing interliner. 3,067,819, 12–11–62, Cl. 166—48.
Gore, Graves T.: *See*—
Shirley, Julian W., and Gore. 3,052,211.
Gore, Graves T., to Riegel Textile Corp. Striping apparatus. 3,027,870, 4–3–62, Cl. 118—411.
Gore, Le Roy D., and W. M. Barnes, ½ to The Vendo Co., and ½ to The Coca-Cola Co. Method and apparatus for vending premix type carbonated beverages. 3,021,685, 2–20–62, Cl. 62—89.
Gore, Lewis L., to Miehle-Goss-Dexter, Inc. Sheet handling apparatus. 3,051,479, 8–28–62, Cl. 271—68.
Gore, Thomas J. Adjustable hair shaper. 3,054,180, 9–18–62, Cl. 30—30.
Gore, Thomas J. Hair shaping device. 3,066,411, 12–4–62, Cl. 30—30.
Gorecki, Joseph S.: *See*—
Reilly, Charles P., and Gorecki. 3,069,582.
Goren, Mayer B., and I. D. Elkins, to Kerr-McGee Oil Industries, Inc. Cation exchange materials and their preparation. 3,041,286, 6–26–62, Cl. 252—179.
Gorenty, Earl L. Bite signal for night fishing. 3,023,532, 3–6–62, Cl. 43—17.
Gorgol, Dyonizy W. Disk game. 3,042,407, 7–3–62, Cl. 273—126.
Gorham, Harold F., to Gorham Universal Mfg. Co., Inc. Line guide for fishing rod. 3,058,254, 10–16–62, Cl. 43—24.
Gorham, Harold F., to Gorham Universal Mfg. Co., Inc. Fishing rod tips. 3,058,255, 10–16–62, Cl. 43—24.
Gorham, Harold L. Buoyant simulation. 3,061,847, 11–6–62, Cl. 9—313.
Gorham Universal Mfg. Co., Inc.: *See*—
Gorham, Harold F. 3,058,254.
Gorham, Harold F. 3,058,255.
Gorham, William F., and D. F. Brandon, to Union Carbide Corp. Continuous solution polymerization of methyl methacrylate. 3,026,307, 3–20–62, Cl. 260—89.5.
Görike, Rudolf. Electrostatic microphone. 3,030,457, 4–17–62, Cl. 179—111.
Gorike, Rudolf. Small-size condenser microphone. 3,031,538, 4–24–62, Cl. 179—111.
Görike, Rudolf, and K. Reinthaler, to Akustische und Kinogerate Gesellschaft m.b.H. Switching device combined with sound transducer. 3,035,132, 5–15–62, Cl. 200—61.47.
Gorin, Everett, to Consolidation Coal Co. Production of hydrogen-rich liquid fuels from coal. 3,018,241, 1–23–62, Cl. 208—8.
Gorin, Everett, to Consolidation Coal Co. Production of hydrogen-enriched hydrocarbonaceous liquids. 3,018,242, 1–23–62, Cl. 208—10.
Gorin, Everett, and R. T. Struck, to Consolidation Coal Co. Size separation, preoxidation and fluidized low temperature carbonization of coal. 3,047,472, 7–31–62, Cl. 202—9.

Gorin, Everett, and R. J. Friedrich, to Consolidation Coal Co. Preparing metallurgical fuel from non-caking coal utilizing air-blown pitch binder. 3,051,628, 8–28–62, Cl. 202—26.
Gorin, Everett, and R. J. Friedrich, to Consolidation Coal Co. Preparing metallurgical fuel briquets from non-caking coal by preshrinking char. 3,051,629, 8–28–62, Cl. 202—26.
Goring, Cleve A. I.: *See*—
Youngson, Charles R., and Goring. 3,026,244.
Youngson, Charles R., and Goring. 3,026,246.
Youngson, Charles R., and Goring. 3,055,799.
Youngson, Charles R., and Goring. 3,060,720.
Youngson, Charles R., and Goring. 3,061,507.
Goring, Cleve A. I., to The Dow Chemical Co. Product and process for preventing nitrogen losses from soil. 3,047,377, 7–31–62, Cl. 71—1.
Goring, Cleve A. I., to The Dow Chemical Co. Tertiary alkynol composition and method for suppressing the nitrification in soil. 3,047,378, 7–31–62, Cl. 71—1.
Goring, Cleve A. I., to The Dow Chemical Co. Method and product for suppressing the nitrification of ammonium nitrogen in soil. 3,050,380, 8–21–62, Cl. 71—1.
Goring, Cleve A. I., to The Dow Chemical Co. Method and product for treating soil to suppress the nitrification of ammonium nitrogen therein. 3,050,381, 8–21–62, Cl. 71—1.
Goring, Cleve A. I., to The Dow Chemical Co. Method of applying an aminopyridine compound to soil and the product thereof to prevent nitrification in soil. 3,050,382, 8–21–62, Cl. 71—1.
Gorini, Settimio, to E. Gabriele. Pressure-monitoring device, particularly for motor vehicle pneumatic tires, compressed air pipes for brakes, tanks and the like. 3,051,122, 8–28–62, Cl. 116—34.
Gorjanc, Henry A., to The Cleveland Crane & Engineering Co. Material handling device. 3,046,909, 7–31–62, Cl. 104—102.
Gorjanc, Henry A., to The Cleveland Crane & Engineering Co. Overhead traveling crane. 3,062,333, 11–6–62, Cl. 188—152.
Görler, Horst: *See*—
Schweitzer, Gerhard. Re. 25,256.
Görler, Regina. *See*—
Schweitzer, Gerhard. Re. 25,256.
Gorman, Eugene F., to Union Carbide Corp. Portable air lock for welding chambers. 3,020,389, 2–6–62, Cl. 219—72.
Gorman, Eugene F., L. M. Meckler, III, R. J. Nelson, and A. J. Newman, to Union Carbide Corp. Gas stream-shielded arc working. 3,053,967, 9–11–62, Cl. 219—74.
Gorman, Eugene F., and R. J. Nelson, to Union Carbide Corp. Method and apparatus for arc working with gas shields having coherent-streaming. 3,053,968, 9–11–62, Cl. 219—74.
Gorman, John P.: *See*—
O'Neal, Bert W. and D. G., and Gorman. 3,044,173.
Gorman, Kenneth P. Support for a toroidal coil. 3,039,705, 6–19–62, Cl. 242—4.
Gorman, Kenneth P. Toroidal coil winding mechanism. 3,061,213, 10–30–62, Cl. 242—4.
Gorman-Rupp Co., The: *See*—
Rupp, Warren E. 3,040,669.
Gorman-Rupp Industries, Inc.: *See*—
Smith, Edward M. 3,053,249.
Gorman, Shiloh. Pinchcock. 3,043,553, 7–10–62, Cl. 251—10.
Gorman, William G., to Sterling Drug Inc. Metered valve construction. 3,019,947, 2–6–62, Cl. 222—394.
Gorman, William G., to Esta Medical Laboratories, Inc. Adapter connecting aersol container valve stem to dispenser for filling said dispenser. 3,067,784, 12–11–62, Cl. 141—27.
Gorman, William J.: *See*—
Lee, Roger E., Jr., and Gorman. 3,060,433.
Gormel, Clarence J. Carrying case for portable dictating machines. 3,019,300, 1–30–62, Cl. 179—100.1.
Gorn Electric Co., Inc.: *See*—
Piorunneck, Heinz. 3,070,771.
Görner, Wolfgang, and R. Klüge, to Buchungsmaschinenwerk Karl-Marx-Stadt, VEB. Read-out apparatus for an accounting machine. 3,050,246, 8–21–62, Cl. 235—61.
Gornowski, Edward J.: *See*—
Destremps, Edward A., and Gornowski. 3,043,753.
Gorrell, John E., to Electronic Associates, Inc. Recorder. 3,024,078, 3–6–62, Cl. 346—23.
Gorrell, John E., and W. B. Leavens, Jr., to Electronic Associates, Inc. Recording paper. 3,066,301, 11–27–62, Cl. 346—138.
Gorsica, Chester J., to Chrysler Corp. Gasket. 3,053,544, 9–11–62, Cl. 277—180.
Gorsich, Richard D., to Ethyl Corp. Organo bimetallic compositions. 3,030,396, 4–17–62, Cl. 260—429.7.
Gorsich, Richard D., to Ethyl Corp. Organo bimetallic compositions. 3,030,397, 4–17–62, Cl. 260—429.7.
Gorsich, Richard D., to Ethyl Corp. Organo bimetallic compositions. 3,033,885. 5–8–62, Cl. 260—429.7.
Gorsich, Richard D., to Ethyl Corp. Organo-bimetallic compositions. 3,050,537, 8–21–62, Cl. 260—429.
Gorsich, Richard D., to Ethyl Corp. Organo bimetallic compounds. 3,069,445, 12–18–62, Cl. 260—429.
Gorsich, Richard D., to Ethyl Corp. Bimetallic cyclopentadienyl carbonyl compounds and preparation thereof. 3,069,449, 12–18–62, Cl. 260—429.7.
Gorski, Albert: *See*—
Edgerly, Charles R., Summers, and Gorski. 3,054,235.
Gorski, Frank A., E. H. Voigtman, and K. R. Wink, to Kimberly-Clark Corp. Manufacture of paper of organic hydrophobic fibers. 3,067,087, 12–4–62, Cl. 162—157.
Gorski, Henry J., M. F. Bakke, to Lincoln Tool & Mfg. Co. Stator winding machine. 3,052,418, 9–4–62, Cl. 242—1.1.
Gorter, Evert W., H. P. J. Wijn, and C. J. Esveldt, to North American Philips Co., Inc. Method of manufacturing a magnet core having an approximately rectangular hysteresis loop. 3,030,306, 4–17–62, Cl. 252—62.5.
Gorter, Evert W., P. K. Lotgering, and H. G. Bleijers, to North American Philips Co., Inc. Ferromagnetic material. 3,046,227, 7–24–62, Cl. 252—62.5.
Gorton, George Machine Co.: *See*—
Gunderson, Allen D. 3,023,676.
Gorton, Helen, to Mite Corp. Bound buttonhole attachment. 3,020,862, 2–13–62, Cl. 112—77.
Göschel, Karl-Heinz R., and H. Lamm, to Daimler-Benz Aktiengesellschaft. Fuel injection system. 3,020,905, 2–13–62, Cl. 123—179.
Gose, Robert O., to United States of America, Air Force. Thrust termination in solid propellant rockets. 3,038,303, 6–12–62, Cl. 60—35.6.
Gose, Robert O., to Phillips Petroleum Co. Jet propulsion device. 3,070,014, 12–25–62, Cl. 102—49.
Goshen, Charles E. Flotation type compass. 3,068,583, 12–18–62, Cl. 33—223.
Goshima, Takeshi, to Canon Camera Co., Inc. Automatic control mechanism for preset iris diaphragms of photographic cameras. 3,051,067, 8–28–62, Cl. 95—64.
Goshorn, Roland H. *See*—
Deger, Thomas E., Buchholz, and Goshorn. 3,035,097.
Olin, John F., Buchholz, Loev, and Goshorn. 3,070,632.
Goshorn, Roland H., Buchholz, and T. E. Deger, to Pennsalt Chemicals Corp. Process for the preparation of sulfur compounds. 3,036,133, 5–22–62, Cl. 260—609.
Goslin, Thomas P., and R. W. Morrison, to Streeter-Amet Co. Material conveyor. 3,036,769, 5–29–62, Cl. 235—151.
Gosman, Clarence B., to Air Pillow & Cushions, Inc. Inflated articles. 3,030,640, 4–24–62, Cl. 5—349.
Gosnell, Johnnie E.: *See*—
Leake, Henry E., Ferrell, and Gosnell. 3,058,600.
Gosney, Ernest, Jr.: *See*—
Seidel, William B., and Gosney. 3,056,239.
Goss, Charles O., to International Typographical Union of North America. Line-up table with means for drawing non-straight lines. 3,025,601, 3–20–62, Cl. 33—26.
Goss, Oliver P. M. Hygrometer. 3,016,744, 1–16–62, Cl. 73—337.5.
Gossalter, Rene. Boiler. 3,037,490, 6–5–62, Cl. 122—33.
Gossard, H. W., Co., The: *See*—
Morehouse, Patricia A. 3,036,575.
Gossard, S. W., Co., The: *See*—
Morehouse, Patricia A. 3,044,471.
Gosselin, Maurice J.: *See*—
Gosselin, John R., and Gosselin. 3,018,128.
Gossen, P., & Co., G.m.b.H.: *See*—
Schrenk Gotthilf, Peter, and Wiener. 3,054,928.
Gossett, Fred C., and D. A. Hamilton, to Don Baxter, Inc. Plastic container. 3,030,955, 4–24–62, Cl. 128—272.
Gossett, James D. Stabilizing bracket for outboard motors. 3,018,989, 1–30–62, Cl. 248—4.
Gosslau, Wolf D., to North American Philips Co., Inc. Ultrahigh frequency heterodyne receiver containing tank circuit arrangement. 3,042,869, 7–3–62, Cl. 325—436.
Gosswald, Rudolf: *See*—
Schrenk Gotthilf, Gosswald, and Henecka. 3 031,377.
Gostin, Ernest L., and S. D. Swan, to Metal Processing Co., Inc. Method and composition for plating by chemical reduction. 3,032,436, 5–1–62, Cl. 117—71.
Gotal, Joseph, and E. E. Conner, to Westinghouse Electric Corp. Potential transformer. 3,040,240, 6–19–62, Cl. 323—50.
Gotaverken, Aktiebolaget: *See*—
Aarvold, Reinhardt O., Isaksson, and Wadman. 3,056,386.
Goteh, Ronald W., to Foster Wheeler Corp. Welding torch for externally butt welding cylindrical members together. 3,069,529, 12–18–62, Cl. 219—60.
Goth, Imre. Combined dispensing and sealing device for containers. 3,062,419, 11–6–62, Cl. 222—484.
Gotham Industries, Inc.: *See*—
Gottsegen, Morten. 3,028,042.
Gottsegen, Marten. 3,030,163.
Göthberg, Karl E. A., to Svenski Kullagerfabriken Aktiebolaget. Roller cage for cylindrical roller bearings. 3,042,464, 7–3–62, Cl. 308—217.
Gothberg, Karl E. A., to Svenska Kullagerfabriken, Aktiebolaget. Sealing device. 3,057,628, 10–9–62, Cl. 277—39.
Gothberg, Karl E. A., and S.-E. Malstrom, to Svenska Kullagerfabriken, Aktiebolaget. Cage for cylindrical roller bearings. 3,057,667, 10–9–62, Cl. 308—217.
Gothe, Walter C., and J. O. Hinkle, to Western Electric Co., Inc. Material applying apparatus. 3,055,328, 9–25–62, Cl. 113—95.
Gothe, Walter C., and J. O. Hinkle, to Western Electric Co., Inc. Flux applying fixture. 3,064,607, 11–20–62, Cl. 113—95.
Goto, Asahiko, to Kobe Steel Works, Ltd. Apparatus for continuous heat treatment of textile material with pressurized gaseous heating medium. 3,041,863, 7–3–62, Cl. 68—5.

Goto, Eiichi, to Kokusai Denshin Denwa Kabushiki Kaisha. Coupling circuits for digital computing devices. 3,051,843, 8–28–62, Cl. 307—88.

Goto, Hiroshi: *See*—
Fukuda, Shinro, Goto, Akashi, and Miyake.

Goto, Hiroshi, and G. Akashi, to Fuji Photo Film Co., Ltd. Magnetic recording material. 3,046,158. 3,047,428, 7–31–62, Cl. 117—169.

Goto, Jyunichi. Granulating apparatus. 3,039,704, 6–19–62, Cl. 241—159.

Goto, Masakatsu: *See*—
Ishidate, Morizo, Goto, and Ogasawara.

Gotsch, Lenard P., to American Can Co. Method of high speed coating. 3,068,119, 12–11–62, Cl. 117—93.

Gott, Allan H., to Corning Glass Works. Luminair. 3,064,-125, 11–13–62, Cl. 240—41.3.

Gott, Hans: *See*—
Eisenburger, Kuno, Gott, and Ritter. 3,056,883.

Gotter, Rene: *See*—
Nief, Guy, and Gotter. 3,066,220.

Gottesman, Jerome W. Automobile parking garage. 3,066,-808, 12–4–62, Cl. 214—16.1.

Gottfried, Louis, and J. Berger. Attachment for chairs and similar structures. 3,027,202, 3–27–62, Cl. 308—3.6.

Gottfried, Louis, and J. Berger. Baby chair with inclining back. 3,069,202, 12–18–62, Cl. 297—355.

Gottfried, Robert E.: *See*—
Fiden, William H., and Gottfried. 3,021,390.

Gottfried, Siegfried: *See*—
Baxendale, Lily, and Gottfried. 3,070,624.

Gottfried, Siegfried, and L. Baxendale, to Biorex Laboratories Ltd. Extract from liquorice root having anti-inflamatory activities. 3,060,072, 11–27–62, Cl. 167—55.

Gottfried, Siegfried, and L. Baxendale, to Biorex Laboratories Ltd. Pharmacological compounds. 3,070,623, 12–25–62, Cl. 260—468.5.

Gotthardt, Manfred R., and T. N. Lowry, to Bell Telephone Laboratories, Inc. Control arrangement for line concentrator. 3,047,688, 7–31–62, Cl. 179—18.

Gotti, Howard C. Washer attachment for rotary lawn mowers. 3,040,990, 6–26–62, Cl. 239—273.

Gottlieb, Louis. Carbonated beverage dispensing apparatus. 3,048,195, 8–7–62, Cl. 137—637.

Gottschalk, Rudolf, to A. Ehrenreich & Cie., Fa. Suspensions for pivotally mounted vehicle wheels. 3,037,787, 6–5–62, Cl. 280—96.2.

Gottschalk, Eric S.: *See*—
Bishop, Leonard J., and Gottschalk. Re. 25,288.

Gottschalk, Eugene: *See*—
Wilsted, Harold D., and Gottschalk. 3,053,045.

Gottschalk, Johannes, to Dangelmaier & Co. Camera. 3,048,-092, 8–7–62, Cl. 95—45.

Gottscho, Adolph, Inc.: *See*—
Gottscho, Ira S. 3,026,797.
Talarico, Lawrence J. 3,066,603.
Worth, Francis C. 3,022,724.
Worth, Francis C. 3,031,956.
Worth, Francis C. 3,051,081.
Worth, Francis C. 3,059,571.

Gottscho, Ira S., to Adolph Gottscho, Inc. Web marking apparatus. 3,026,797, 3–27–62, Cl. 101—228.

Gottsegen, Marten, to Gotham Industries, Inc. Portable ice chest. 3,028,042, 4–3–62, Cl. 220—91.

Gottsegen, Marten, to Gotham Industries, Inc. Nesting slide drawer receptacle. 3,050,163, 4–17–62, Cl. 312—111.

Gottshall, Ralph L, and H. W. Swain, to Gulf Research & Development Co. Lubricating composition. 3,017,359, 1–16–62, Cl. 252—32.7.

Gottshall, Ralph L, J. G. Peters, and H. W. Swain, to Gulf Research & Development Co. Stable gasoline motor fuels. 3,035,908, 5–22–62, Cl. 44—75.

Gottwald, Antonin, to Siangelis Associates Inc. Catalytic hand warmer. 3,046,975, 7–31–62, Cl. 126—208.

Gottwig, Ewald: *See*—
Graham, Harry C. 3,021,772.

Gottzmann, Christian F., to Union Carbide Corp. Apparatus for storing and pumping a volatile liquid. 3,016,717, 1–16–62, Cl. 62—55.

Götz, Armin: *See*—
Schallus, Erich, and Götz. Re. 25,218.

Götz, Elmar: *See*—
Boese, Peter, and Götz. 3,052,411.

Götz, Franz, and G. and H. Will, to Rohm & Haas G.m.b.H. Porous, hydrophilic acrylic resin structure and method for preparing same. 3,027,336, 3–27–62, Cl. 260—2.5.

Gotz, Heinrich: *See*—
Maertens, Klaus, Funck, and Gotz. 3,046,679.

Gotze, Johannes, to Agfa Aktiengesellschaft. Cyanine dyes derived from thienylbenzoxazoles and silver halide emulsions sensitized therewith. 3,044,875, 7–17–62, Cl. 96—105.

Goudey, Alan: *See*—
Klein, Martin L., Morgan and Goudey. 3,017,582.

Goudie, Alexander J., and G. J. Liloia, to American Viscose Corp. Discoloration-resistant regenerated cellulose articles. 3,030,235, 4–17–62, Cl. 117—144.

Goudie, Arturo: *See*—
Crusellas, Alberto, and Goudie. 3,021,898.

Goudsche, N. V.: *See*—
Roosen, Petrus H. 3,054,285.

Goudy, Paul R., J. J. Gribble, and K. J. Marien, to Square D Co. Switch enclosure. 3,024,337, 3–6–62, Cl. 200—168.

Gough, George L., Jr., to Teletype Corp. Switch mechanism. 3,056,874, 10–2–62, Cl. 200—158.

Gough, Leslie F. Reciprocal grate stokers. 3,038,422, 6–12–62, Cl. 110—38.

Gouin, Joseph E. Agricultural implement. 3,033,135, 5–8–62, Cl. 111—522.

Gouirand, Rene. Pneumatic vehicle suspension. 3,025,079, 3–13–62, Cl. 280—124.

Gouirand, Rene. Means for controlling inflation and subsequent pressures in pneumatic tires. 3,037,544, 6–5–62, Cl. 152—415.

Gouirand, Rene. Knee action pneumatic suspension for vehicles. 3,037,795, 6–5–62, Cl. 280—124.

Gouirand, Rene. Pneumatic suspension for trailer fifth wheels. 3,037,793, 6–5–62, Cl. 280—440.

Gouker, John W. Vehicle brakes. 3,026,974, 3–27–62, Cl. 188—91.

Gould, Arthur: *See*—
Cawker, Charles E., and Gould. 3,026,910.

Gould, Arthur S., and P. Nathanson, to The Dobeckman Co. Supported metallic yarn. 3,019,592, 2–6–62, Cl. 57—144.

Gould, David F., II: *See*—
Feldman, Edward M., and Gould. 3,046,401.

Gould, David H., to Schering Corp. Alkylated cortical steroids. 3,053,832, 9–11–62, Cl. 260—239.5.

Gould, David H., and C. H. Robinson, to Schering Corp. 9,11-dihalogeno substituted steroids of the androstane series. 3,026,339, 3–20–62, Cl. 260—397.45.

Gould, David H., and C. H. Robinson, to Schering Corp. 9,11-dihalogeno A ring unsaturated steroids of the androstene series. 3,032,564, 5–1–62, Cl. 260—397.3.

Gould, David H., and E. Shapiro, to Schering Corp. Water soluble cyclophosphate esters of steroids and process for preparing same. 3,045,033, 7–17–62, Cl. 260—397.45.

Gould, David H., and H. Reimann, to Schering Corp. 9,11-dihalogeno-3,20-diketopregnanes and processes for their manufacture. 3,049,554, 8–14–62, Cl. 260—397.3.

Gould, Francis E.: *See*—
Johnson, Grannis S., and Gould. 3,059,018.

Gould, Francis E., to FMC Corp. Reduction of nitriles. 3,062,869, 11–6–62, Cl. 260—482.

Gould, George D., to California Research Corp. Heavy oil production by thermal methods. 3,064,728, 11–20–62, Cl. 166—2.

Gould, Gordon E., and R. S. Mason, to The Dow Chemical Co. Method of joining pipes by means of an electrically heatable sleeve. 3,061,503, 10–30–62, Cl. 156—272.

Gould, Henry: *See*—
Friedman, Lester, and Gould. 3,047,608.
Friedman, Lester, and Gould. 3,053,878.

Gould, Herman: *See*—
Ackerman, Frank, and Gould. 3,052,180.

Gould, Howard P.: *See*—
Lang, Warren H., and Gould. 3,055,733.

Gould, J. D., Co.: *See*—
Russell, William M., and Lawrence. 3,057,160.

Gould, Jack K., to American Radiator & Standard Sanitary Corp. Temperature limiting device. 3,038,664, 6–12–62, Cl. 236—93.

Gould, Jack R., and D. M. Gardner, to Thiokol Chemical Corp. Purification of boron trichloride. 3,043,665, 7–10–62, Cl. 23—205.

Gould, Jack U., and L. M. Gutmann, to Ferdinand Gutmann & Co. Stopcock caps and packages incorporating the same. 3,019,933, 2–6–62, Cl. 215—41.

Gould, Jay P. Apparatus for installation and removal of threaded fittings. 3,068,559, 12–18–62, Cl. 29—213.

Gould, John D.: *See*—
Osborn, Howard, and Gould. 3,018,009.

Gould, Lewis N. Filter cigar. 3,054,410, 9–18–62, Cl. 131—10.

Gould, Max R., L. P. Carroll, and R. Cervantes, to The Quaker Oats Co. Process for preparing a pre-cooked corn flour. 3,046,139, 7–24–62, Cl. 99—93.

Gould, Merle L.: *See*—
Drummond, Virgil D., Gould, and Katzen. 3,055,745.

Gould, Merle L., to Ethyl Corp. Manufacture of alkyl aluminum compounds. 3,050,540, 8–21–62, Cl. 260—448.

Gould, Merle L., to Ethyl Corp. Manufacture of alkyl aluminum compounds. 3,050,541, 8–21–62, Cl. 260—448.

Gould, Merle L., to Ethyl Corp. Manufacture of trimethyl phosphate. 3,051,739, 8–28–62, Cl. 260—461.

Gould-National Batteries, Inc.: *See*—
Cheney, Wendell C., Morehouse, and Whitfield. 3,021,183.
Schenk, Raymond L., Jr. 3,061,913.
Schenk, Raymond L., Jr. 3,062,910.

Gould, Richard E., to General Motors Corp. Clothes washing machine having a suds water saver. 3,069,887, 12–25–62, Cl. 68—23.

Gould, Richard H. Continuously operating settling and clarifier tank with rotating feed arrangement. 3,036,715, 5–29–62, Cl. 210—520.

Gould, Robert E.: *See*—
Wahl, Albert J., Lux, and Gould. 3,068,543.

Gould, Russell D., and J. E. Richter. Tree shaking device. 3,020,695, 2–13–62, Cl. 56—328.

Gould, William E., to Carborundum Co. Apparatus and process for the manufacture of paper. 3,067,816, 12–11–62, Cl. 162—374.

Goulds Pumps, Inc.: *See*—
Feltus, Henry J. 3,070,027.
Olmstead, Philip J., and Starrett. 3,037,458.

Goulden, Leo S. Cargo transport assembly. 3,061,332, 10–30–62, Cl. 280—415.
Gourd, Leonard M. A.: *See*—
Copleston, Francis W., and Gourd. 3,035,158.
Gourdon, Dorine A. Garment. 3,044,470, 7–17–62, Cl. 128—528.
Gourdouze, Frank R. Basketball rebound practice device. 3,023,001, 2–27–62, Cl. 273—1.5.
Gourevitch, Alexander, B. Chertow, and J. Lein, to Bristol-Myers Co. Mitomycin recovery from fermentation broth. 3,042,582, 7–3–62, Cl. 167—65.
Gourlay, William E. Live bait holder. 3,047,976, 8–7–62, Cl. 43—44.4.
Gourley, James N. Log bunk stake and locking and releasing mechanism. 3,058,772, 10–16–62, Cl. 296—43.
Gourley, Norman. Power transmitting apparatus. 3,059,489, 10–23–62, Cl. 74—216.3.
Gourley, William J., to American Mfg. Co. of Texas. Counterbalance dual completion unit. 3,057,213, 10–9–62, Cl. 74—41.
Gouveia, A. Peter, to Johns-Manville Corp. Nonwoven fabrics with a fabric-like appearance. 3,020,168, 2–6–62, Cl. 117—11.
Gouverneur, Minor F. H., II, to Illinois Tool Works, Inc. Free run on sealing lock nut. 3,040,796, 6–26–62, Cl. 151—7.
Govatsos, Edward A. Checkbook. 3,058,758, 10–16–62, Cl. 282—23.
Govea, Joseph R., to The Colorado Fuel and Iron Corp. Wire crimping apparatus. 3,044,501, 7–17–62, Cl. 140—105.
Gow, James D., and R. W. Layman, to United States of America, Atomic Energy Commission. Ion magnetron. 3,025,429, 3–13–62, Cl. 315—111.
Goward. Stanley H.: *See*—
Cooper, Thomas H., and Goward. 3,067,799.
Gowdy, George H. Split-tail spinning lure-spoon. 3,021,636, 2–20–62, Cl. 43—42.34.
Gowing, Raymond A.: *See*—
Baxter, James C., and Gowing. 3,051,061.
Gowman, Daniel J.: *See*—
Cornell, John A., and Gowman. 3,021,364.
Goy, Ronald S.: *See*—
Bennett. William D., and Goy. 3,061,943.
Goy, Ronald S., and W. D. Bennett, to Dunlop Rubber Co. Ltd. Devices for use in the treatment of fabrics with a fluidised solid agent. 3,042,956, 7–10–62, Cl. 15—306.
Goy, Ronald S., and P. L. B. Moring to Dunlop Tire and Rubber Corp. Apparatus for the heat treatment of thermoplastic materials. 3,061,941, 11–6–62, Cl. 34—48.
Goyette, Francis H., and J. B. Gabler. Proportioning pump. 3,021,716, 2–20–62, Cl. 74—50.
Goyette, Lewis E., to Richmond-Carolina Chemical Corp. Alkyl-aryl thiophosphites. 3,037,043, 5–29–62, Cl. 260—461.
Goyette, Robert D., to Stadium Products Co., Inc. Hurdle. 3,024,022, 3–6–62, Cl. 272—59.
Goyke, Leonard F., to Baxter Laboratories, Inc. Parenteral solution equipment. 3,050,061, 8–21–62, Cl. 128—272.
Goyne Pump Co.: *See*—
Roberts, Royal N. 3,046,059.
Grabenstetter, Robert J.: *See*—
Cooley, William E., Grabenstetter, and Broge. 3,070,510.
Graber, Carl D., to Diebold, Inc. After-hour depository. 3,059,839, 10–23–62, Cl. 232—44.
Graber, Carl D., C. U. Deaton, F. V. Mason, and J. M. Bryant, to Diebold, Inc. Envelope depository construction. 3,028,074, 4–3–62, Cl. 232—44.
Graber, Carl D., T. H. Kenny, and L. J. Grosswiller, to Diebold, Inc. Deal drawer construction for bank drive-up window. 3,059,840, 10–23–62, Cl. 232—44.
Graber, Carl D., and C. P. Sturgis, to Diebold, Inc. Elevator filing appliance. 3,063,769, 11–13–62, Cl. 312—223.
Graber, Joseph V.: *See*—
Licklider, Melvin W., and Graber. 3,037,731.
Graber, Joseph V., and F. F. Salzmann, to Graber Mfg. Co., Inc. Drapery fixture. 3,029,465, 4–17–62, Cl. 16—94.
Graber, Joseph V., and P. J. Tyler, to Graber Mfg. Co., Inc. Drapery rod master carrier. 3,040,373, 6–26–62, Cl. 16—93.
Graber, Joseph V., and F. F. Salzmann, to Graber Mfg. Co., Inc. Drapery rod fixture. 3,049,176, 8–14–62, Cl. 160—346.
Graber Mfg. Co., Inc.: *See*—
Graber, Joseph V., and Salzmann. 3,029,465.
Graber, Joseph V., and Salzmann. 3,049,176.
Graber, Joseph V., and Tyler. 3,040,373.
Licklider, Melvin W., and Graber. 3,037,731.
Graber, Norman M. Package construction convertible into a frame. 3,029,936, 4–17–62, Cl. 206—47.
Grabicki, Zbigniew, and J. H. Baldrige, to The Connecticut Hard Rubber Co. High tensile strength silicone rubber compositions and method. 3,027,344, 3–27–62, Cl. 260—37.
Grabner, Horst, to Patent-Treuhand-Gesellschaft fur elektrische Gluhlampen m.b.H. High pressure electric discharge lamp with rare-gas filling. 3,065,370, 11–20–62, Cl. 313—185.
Grabow, Fred C.: *See*—
Kaplan, Reuben A. and D. J., and Grabow. 3,028,723.
Kaplan, Reuben A. and D. J., and Grabow. 3,028,724.
Grabow, Fritz G.: *See*—
Foerster, Hans-Joachim M., and Grabow. 3,040,672.
Grabowski, Edward W., to Metriframe Structures Ltd. Members for use in the construction of structural framework. 3,019,866, 2–6–62, Cl. 189—36.
Grabowski, Edward W., and C. R. Johnson, to Acme Steel Co. Structural member. 3,028,937, 4–10–62 Cl. 189—34.
Grabowski, Kenneth P., to Hughes Aircraft Co. Traveling wave coupled cavity parametric amplifier. 3,068,422, 12–11–62, Cl. 330—7.
Grabowski, Kenneth P., and S. Sensiper, to Hughes Aircraft Co. Coupling arrangement for slow-wave structure. 3,048,800, 8–7–62, Cl. 333—31.
Grabowski, Leonard R., and D. J. Holthofer, to General Motors Corp. Preloaded ball bearing screw. 3,059,494, 10–23–62, Cl. 74—441.
Grabowski, Thaddeus J., to Armstrong Cork Co. Method of making very low density cellular polystyrene products. 3,058,162, 10–16–62, Cl. 18—48.
Grabowski, Thomas S., to Borg-Warner Corp. Mechanical blend of a polyurethane rubber with a graft copolymer of polybutadiene, styrene, and acrylonitrile. 3,049,505, 8–14–62, Cl. 260—45.4.
Grabowski, Thomas S., to Borg-Warner Corp. Rubber bonding agents. 3,038,712, 9–11–62, Cl. 154—43.
Grabowski, Thomas S., and H. H. Irvin, to Borg-Warner Corp. Blends of (1) polyvinylchloride (2) coplymer of polybutadiene, styrene and acrylonitrile and (3) a copolymer of acrylonitrile, styrene and alpha methyl styrene. 3,053,800, 9–11–62, Cl. 260—45.5.
Grabowsky, Murray, and P. Paradis, to The Fish Net and Twine Co. Double knot netting and method of making the same. 3,039,348, 6–19–62, Cl. 87—12.
Graboyes, Harold: *See*—
Ernst, William E., Farkas, and Graboyes. 3,037,026.
Grace, W. R., & Co.: *See*—
Avtges, James A., Harrison, and Shaver. 3,047,370.
Bafford, Richard A., and Gregorian. 3,017,376.
Bailey, Herman H. 3,046,771.
Baird, William G., Jr., Lindstrom, Besse, and D'Entremont. 3,022,543.
Ballou, Sidney R., and Greenlie. 3,067,987.
Baptist, James N. 3,036,959.
Baptist, James N. 3,044,942.
Benning, Calvin J. 3,049,525.
Benning, Calvin J. 3,052,661.
Benning, Calvin J. 3,053,822.
Benning, Calvin J. 3,060,006.
Benning, Calvin J., and Wszolek. 3,046,266.
Bentov, Itzhak. 3,021,573.
Bentov, Itzhak. 3,051,678.
Bradbury, Elmer J. 3,035,039.
Braude, George L., and Cogliano. 3,038,785.
Breitenbach, Johann W., and Edelhauser. 3,016,370.
Breitenbach, Johann W., and Edelhauser. 3,040,011.
Brillinger, James H. 3,032,826.
Carlson, Robert G., Rand and Greaves. 3,034,271.
Comeau, Ernest J., Jr., and Dankese. 3,026,366.
Cunningham, George L. 3,021,193.
Cunningham, George L. 3,021,194.
Dearborn, Elizabeth C., and Isaacs. 3,050,527.
Dearborn, Elizabeth C., and Isaacs. 3,050,528.
Dearborn, Elizabeth C., and Isaacs. 3,050,529.
Dreyfus, Robert L. 3,060,655.
Dreyfus, Robert L., and Harrison. 3,050,402.
Dreyfus, Robert L., Harrison, and Lowry. 3,022,614.
Fazio, Charles P., Nelson, and Nickerson. 3,058,694.
Fisher, Arthur L., Fountain, Schweizer, and Thomas. 3,036,143.
Fisher, Elton, Christian, and Giachino. 3,054,796.
Flint, Thomas, and Robinson. 3,061,158.
Foye, Allen B. 3,017,048.
Gabler, Rudolf, and Meyer. 3,036,076.
Giles, Cary S., and Merrill. 3,043,739.
Harrison, John W. 3,041,801.
Harrison, John W. 3,046,711.
Harrison, John W., Ford, Dreyfus, and Howe. 3,039,664.
Hoeg, Donald F., and Benning. 3,062,801.
Hoyt, Charles W., and Murphy. 3,054,607.
Hurley, Forrest R. 3,015,675.
Isaacs, Philip K., and Trofimow. 3,033,812.
Krevsa, Frank J. 3,064,034.
Liebler, Albert D. 3,059,280.
MacCallum, Robert B. 3,039,963.
MacCallum, Robert B., and Hurley. 3,062,746.
Maggiolo, Allison, and Tumolo. 3,023,233.
McMullen, Jacob C. 3,070,263.
Pfeiffer, Robert H., Brandon, and Swidler. 3,036,100.
Prapas, Aristotle G. 3,069,403.
Richardson, Donald. 3 015 824.
Rudner, Bernard. 3,036,998.
Rudner, Bernard. 3,070,600.
Rudner, Bernard, Bafford, and Prapas. 3,058,982.
Rumsey, Herbert, Jr. 3,026,656.
Salutsky, Murrell L., and Bridger. 3,042,606.
Steadman, Thomas R., and Steyermark. 3,020 273.
Steyermark, Paul R., and Wolfrom. 3,023,205.
Stickney, Palmer B., Overhults, and Werber. 3,030,349.
Trofimow, Alexei, Isaacs, and Wacome. 3,058,962.
Walker, Percy G., and Brown. 3,035,730.
Wilson, Charles P., Jr., Ciapetta, and Elston. 3,055,737.
Wilson, Charles P., Jr., Ciapetta, and Elston. 3,066,012.
Winyall, Milton E. 3,066,092.
Winyall, Milton E. 3,070,426.
Wszolek, Walter R. 3,017,403.
Young, Luther O., and Waxter. 3,068,150.

Grace, William E. Pneumatic rollers for earth working machines. 3,025,775, 3–20–62, Cl. 94—50.

Graco Metal Products, Inc. : *See*—
Saint, David. 3,059,725.

Graczyk, Bronislaus S., and J. W. Ott, to Trico Products Corp. Windshield cleaner. 3,049,743, 8–21–62, Cl. 15—250.32.

Grad, Adolf R. : *See*—
Wiedmann, Ernst, Davis, and Grad. 3,065,740.
Wiedmann, Ernst, and Grad. 3,026,854.

Grad, Adolf R., to The Oilgear Co. Pump control valve with bypass. 3,020,890, 2–13–62, Cl. 121—41.

Grad, Adolf R., to The Oilgear Co. Concentric pintle pump. 3,065,711, 11–27–62, Cl. 103—162.

Grad, Peter P., to Aerovox Corp. Method of encasing electrical units and assemblies with one or more protruding contacts. 3,055,777, 9–25–62, Cl. 117—212.

Gradenwitz, Wolfgang : *See*—
Gerstmeier, Bernhard, Gradenwitz, and Grotkopp. 3,068,623.

Gradinger, Leland, and W. L. Six, to Golden Star Polish Mfg. Co., Inc. Mop holder having an adjustable handle. 3,041,648, 7–3–62, Cl. 15—147.

Grado, Joseph F. Phonograph transducer. 3,018,336, 1–23–62, Cl. 179—100.41.

Grado, Joseph F. Electro-mechanical transducer. 3,040,136, 6–19–62, Cl. 179—100.41.

Grady, Charles B., Jr., to Maxson Electronics Corp., and United States Rubber Co., jointly. Container. 3,024,358, 3–6–62. Cl. 250—17.

Grady, Charles B., Jr. Battery charging regulator. 3,036,261, 5–22–62, Cl. 323—22.

Grady, Charles B., Jr. Fast charging electrical leakage measuring network. 3,063,008, 11–6–62, Cl. 324—60.

Grady, Daniel W. : *See*—
Cherry, Walter L., Jr., and Grady. 3,032,622.

Grady, Dennis, H. Bates, and J. W. Fisher, to British Celanese Ltd. Process of delustering acetone-soluble cellulose acetate textile with a hot soap solution containing hydrogen peroxide. 3,031,254, 4–24–62, Cl. 8—131.

Grady, Francis H., to General Motors Corp. Transmission control. 3,025,715, 3–20–62, Cl. 74—484.

Grady, Gerard: *See*—
Brown, Thomas J. A., Spencer, and Grady. 3,028,053.

Grady, Haroid R., to Vanadium Corp. of America. Method of making titanium-containing alloys. 3,063,831, 11–13–62. Cl. 75—129.

Graefe, Allen F., and R. E. Meyer, to Aerojet-General Corp. 1,1'-biazidine compounds and the process of preparation. 3,070,596, 12–25–62, Cl. 260—239.

Graes, Howard B., Jr., and B. P. Bell, to International Minerals & Chemical Corp. Reaction vessel. 3,023,089, 2–27–62. Cl. 23—259.2.

Graesser, R., Ltd. : *See*—
Coleby, John. 3,017,253.

Graetz, Edward A. : *See*—
Patz, Paul, and Graetz. 3,023,917.
Patz, Paul, and Graetz. 3,050,294.
Patz, Paul, and Graetz. 3,057,608.
Patz, Paul, and Graetz. 3,065,867.
Patz, Paul, and Graetz. 3,065,996.

Graf, Anton, to Askania-Werke A.G. Device for measuring gravity on moving platforms. 3,019,655, 2–6–62, Cl. 73—382.

Graf, Arthur, to Jet Industries Corp. Apparatus for producing separate slide fasteners from continuous fastener chain. 3,063,323. 11–13–62, Cl. 83—622.

Graf, Franz, to Durand & Huguenin A.G. Process for the manufacture of new metallizable 4-hydroxy-5-carboxyphenyl-2 ,2'-dihydroxy-azo-dyestuffs. 3,060,167, 10–23–62, Cl. 260—173.

Graf, Fritz : *See*—
Baumann, Heinrich, Graf, and Poschmann. 3,037,903.

Graf, George : *See*—
Wayman, Morris, Martin, and Graf. 3,067,107.

Graf, Martin, to Grob & Co. A.G. Heddle frame. 3,016,925, 1–16–62, Cl. 139—92.

Graf, Robert D., W. M. Parkins, and R. E. Prouty, to Essex Wire Corp. Thermostatic switch. 3,021,406, 2–13–62, Cl. 200—138.

Graf, Samuel E., and M. F. Hirsch, to General Electric Co. Magnetic coating transfer medium. 3,061,454, 10–30–62, Cl. 117—36.1.

Graf, Wilfried, E. Schmid, and W. G. Stoll, to Geigy Chemical Corp. New isoindoline derivatives. 3,055,904, 9–25–62, Cl. 260—293.4.

Graf, Wilfried, E. Schmid, and W. G. Stoll, to Geigy Chemical Corp. New sulphamyl benzamides. 3,055,905, 9–25–62, Cl. 260—294.8.

Graf, Wilfried, E. Schmid, and W. G. Stoll, to Geigy Chemical Corp. New benzonbenone sulphonic acid amides. 3,055,930, 9–25–62, Cl. 260—470.

Graf, Willi, to Maag Gear-Wheel & Machine Co. Ltd. Gear grinding machine. 3,044,221, 7–17–62, Cl. 51—123.

Graff, Harry J., W. C. Kleinfelder, and P. C. Schwartz, to Bell Telephone Laboratories, Inc. Connector for insulated conductors. 3,064,072. 11–13–62, Cl. 174—87.

Graff, Olin D., and M. Mitchell, to Reilly Tar and Chemical Corp. Coating material of blended pitch and tar emulsions. 3,060,047, 10–23–62, Cl. 106—277.

Graff, Paul W., to North American Gear Co. Folding extension leveling rod. 3,026,619, 3–27–62. Cl. 33—74.

Graff, Raymond K., to Aetna Steel Products Corp. Ceiling connecting means for a partition wall. 3,035,669, 5–22–62, Cl. 189—34.

Graff, Raymond K., to Aetna Steel Products Corp. Partition wall. 3,063,524, 11–13–62, Cl. 189—34.

Graflex, Inc. : *See*—
Padelt, Johannes G., and Hurlburt. 3,039,441.

Grafstein, Paul L., R. Meisel, and G. Panchak, to Matronics, Inc. System for recording and reading out data. 3,047,225, 7–31–62, Cl. 235—92.

Grafton, Eric A., to Walter Grafton & Son Ltd. Spools for business machines. 3,051,287, 8–28–62, Cl. 197—175.

Grafton, Walter, & Son Ltd. : *See*—
Grafton, Eric A. 3,051,287.

Graf von Soden, A.F. : *See*—
Norton, Lois C. and R. R. 3,044,663.

Graham, Agnes D. : *See*—
Graham, Harry C. 3,021,772.

Graham, Alexander B., to The International Nickel Co., Inc. Extrusion of metal. 3,034,642, 5–15–62, Cl. 207—9.

Graham, Alexander L. : *See*—
Dietert, Harry W., and Graham. 3,046,623.

Graham, Arthur. Migration resistant packing material. 3,047,136, 7–31–62, Cl. 206—46.

Graham, Arthur K. : *See*—
Savage, Frank K., Pinkerton, and Graham. 3,054,736.

Graham, Charles D., to Densco, Inc. Headrest cushion. 3,027,193, 3–27–62, Cl. 297—391.

Graham Chemical Corp. : *See*—
Goldberg, Samuel D. 3,045,674.

Graham, Clifton B. : *See*—
Holl, Richard J., Klecker, and Graham. 3,034,977.

Graham, David E. : *See*—
Bloom, Albert, and Graham. 3,063,980.
Smith, Carl M., and Graham. 3,032,526.

Graham, Dallas P. : *See*—
Swann, James A., and Graham. 3,055,447.

Graham, Donald C., to Capitol Products Corp. Gratings. 3,046,852. 7–31–62, Cl. 94—30.

Graham, Donald C., to Capitol Products Corp. Composite grating. 3,039,575, 6–19–62, Cl. 189—83.

Graham, Eugene : *See*—
Klassen, Willis G. 3,045,767.

Graham, Ernest J. Device for alining end portions of a log to a chucking device therefor. 3,037,538, 6–5–62, Cl. 144—209.

Graham, Frank S., P. S. Komor, and A. Redding, Jr., to U.S. Electrical Motors, Inc. Waterproof stator construction for submersible dynamoelectric machine. 3,046,604, 7–31–62, Cl. 18—36.

Graham, George C. Fuel injection nozzle and spray device. 3,069,099, 12–18–62, Cl. 239—453.

Graham, George C., Jr., to Personal Products Corp. Absorbent product. 3,055,369, 9–25–62, Cl. 128—285.

Graham, George T. Method of building construction. 3,053,015, 9–11–62, Cl. 50—534.

Graham, Harold J., to Omark Industries, Inc. Electric welding system. 3,047,711, 7–31–62, Cl. 219—99.

Graham, Harold J., to Omark Industries, Inc. Welding apparatus. 3,059,095, 10–16–62, Cl. 219—98.

Graham, Harry C., ½ to E. Gottwig, and ¼ to G. Savransky, and R. L. Keys, jointly, and ¼ to A. D. Graham. Film holder. 3,021,772, 2–20–62, Cl. 95—30.

Graham Industries, Inc. : *See*—
Reynolds, Wylee M. 3,048,385.

Graham, James L., to Eastman Kodak Co. Dialdehyde starch as gelatin hardener. 3,058,827, 10–16–62, Cl. 96—111.

Graham, James L., and J. Sagal, Jr., to Eastman Kodak Co. Sensitization of photographic silver halide emulsions containing color-forming compounds with polymeric thioethers. 3,046,129, 7–24–62. Cl. 96—55.

Graham, James T. : *See*—
Kay, John G., and Graham. 3,032,160.

Graham, James T., and J. G. Kay, to F. Jos. Lamb Co. Conveying arrangements for workpieces. 3,043,417, 7–10–62, Cl. 198—85.

Graham, John F., to Collins Radio Co. Multicore transformer. 3,020,502, 2–6–62, Cl. 336—73.

Graham, John J. K. Kerver, and C. L. Prokop, to Jersey Production Research Co. Method of fracturing in wells. 3,020,954, 2–13–62, Cl. 166—42.

Graham, John R. : *See*—
Alcorn, Irwin W., Graham, and Christenson. 3,054,267.

Graham, John W. : *See*—
Kerver, John K., Holland, and Graham. 3,055,426.

Graham, John W., to Jersey Production Research Co. Roller bit tooth. 3,020,181, 12–25–62, Cl. 175—331.

Graham, John W., N. L. Muench, and R. E. Williams, to Jersey Production Research Co. Device for introducing fluid in wells. 3,020,964, 2–13–62, Cl. 175—237.

Graham, John W., and N. L. Muench, to Jersey Production Research Co. Method of increasing well drilling rate. 3,040,822, 6–26–62, Cl. 175—70.

Graham, John W., and J. K. Kerver, to Jersey Production Research Co. Method of drilling wells with air. 3,070,178, 12–25–62, Cl. 175—17.

Graham, Karl L., to Deere & Co. Cotton harvester. 3,031,828, 5–1–62, Cl. 56—14.

Graham, Kenneth A. : *See*—
Bowlus, Omer E., and Graham. 3,049,644.

Graham, Kenneth A., to Chrysler Corp. Rotor arm and electrical system. 3,049,643, 8–14–62, Cl. 315—219.

Graham, Martin H., to United States of America, Atomic Energy Commission. Electron discharge device. 3,054,926, 9–18–62, Cl. 315—8.5.

Graham, Marvin M., and J. W. Wright, to Robertshaw-Fulton Controls Co. Control valve. 3,052,264, 9–4–62, Cl. 137—628.

Graham, Neil B., and G. H. Segall, to Canadian Industries Ltd. Manufacture of polymers from polymers of unsaturated acids. 3,056,764, 10–2–62, Cl. 260—78.4.

Graham, Paul N., and M. B. Krampf, to Corning Glass Works. Volumetric glassware and method of production. 3,058,-352, 10–16–62, Cl. 73—427.

Graham, Paul R., to Monsanto Chemical Co. Composition comprising polyacrylonitrile plasticized with cyanoalkyl sulfonamide. 3,050,488, 8–21–62, Cl. 260—30.8.

Graham, Phillip. Graphic machine. 3,020,640, 2–13–62, Cl. 33—23.

Graham, Phillip. Curved vehicle bumper. 3,056,462, 10–2–62, Cl. 180—83.

Graham, Phillip. Safe vehicle body. 3,056,627, 10–2–62, Cl. 296—28.

Graham, Ralph E. Amusement appaartus. 3,034,785, 5–15–62, Cl. 272—36.

Graham, Raymond C., to Lenkurt Electric Co., Inc. Wire grind and tension device. 3,054,566, 9–18–62, Cl. 242—4.

Graham, Reginald: *See*—
Justice, James W. H., and Graham. 3,067,360.

Graham, Richard H., to United States of America, Atomic Energy Commission. Reactor control device. 3,052,616, 9–4–62, Cl. 204—193.2.

Graham, Richard P., to The Singer Mfg. Co. Parallel submerged individual industrial units. 3,067,705, 12–11–62, Cl. 112—258.

Graham, Richard P., and J. C. Hage, to The Singer Mfg. Co. Automatic clamp opening devices for sewing machines. 3,039,418, 6–19–62, Cl. 112—67.

Graham, Richard P., W. L. Herron, and S. J. Ketterer, to The Singer Mfg. Co. Power control unit for sewing machines. 3,051,110, 8–28–62, Cl. 112—239.

Graham, Robert E., to Bell Telephone Laboratories, Inc. Transmission of quantized signals. 3,026,375, 3–20–62, Cl. 179—15.

Graham, Robert E., to Bell Telephone Laboratories, Inc. Sequential scan television with line interpolation. 3,051,-778, 8–28–62, Cl. 178—6.8.

Graham, Robert P.: *See*—
Ball, Thomas M., Graham, Elliott, Hurst, and Noftz. 3,026,860.
Morgan, Arthur I., Graham, and Ginnette. 3,031,312.
Morgan, Arthur I., Jr., Ginnette, and Graham. 3,031,-313.

Graham, Robert S., to Bell Telephone Laboratories, Inc. Pulse transmission system. 3,042,751, 7–3–62, Cl. 179—15.

Graham, Robert W., to General Motors Corp. Rotary valve. 3,045,701, 7–24–62, Cl. 137—625.42.

Graham, Robert W., to General Motors Corp. Fuel tank filler caps. 3,067,908, 12–11–62, Cl. 220—44.

Graham, Savage & Associates, Inc.: *See*—
Savage, Frank K., Pinkerton, and Graham. 3,054,736.

Graham, Thomas T. Cold patch with insertable adhesive means for repairing pipes. 3,043,342, 7–10–62, Cl. 138—99.

Graham, Walton: *See*—
Di Toro, Michael J., and Graham. 3,021,479.

Graham-White Sales Corp.: *See*—
Frantz, Virgil L. 3,020,072.
Frantz, Virgil L. 3,024,797.
Frantz, Virgil L. 3,057,331.

Graham, William: *See*—
Phillipps, Gordon H., Graham, Gregory, and Elks. 3,040,069.
Phillipps, Gordon H., Graham, Gregory, and Elks. 3,040,070.

Graham, William, A. C. Ritchie, and L. A. Wetherill, to Glaxo Laboratories Ltd. Process for the hydrogenolysis of 16-bromo-17*a*-hydroxy-steroids. 3,040,071, 6–19–62, Cl. 260—397.45.

Graham, William R., Jr., and B. Grogg, to The Quaker Oats Co. Method of making shredded cereal product. 3,054,677, 9–18–62, 99—82.

Grahl, Melvin F., and D. C. Hartin, to United States of America, Navy. Pedestal-free gated amplifier circuit. 3,056,089, 9–25–62, Cl. 328—99.

Grahn, Arne Y., to The Poly Choke Co., Inc. Ventilated rib structure for gun barrels. 3,016,613, 1–16–62, Cl. 33—47.

Graifman, Julius. Combination flip top cigarette box and matches. 3,032,178, 5–1–62, Cl. 206—48.

Grain Belt Supply Co., Inc.: *See*—
Webb, Venard C. 3,070,055.

Grain Processing Corp.: *See*—
Zorn, Ralph A. 3,021,217.

Gram, Hans, to Brodrene Gram A/S. Refrigerating apparatus for preparing frozen bodies of ice-cream. 3,024,622, 3–13–62, Cl. 62—340.

Gram, James P. Drinking cup construction. 3,069,046, 12–18–62, Cl. 220—85.

Gram, Knud F. Ship having an air cushion under the bottom. 3,040,688, 6–26–62, Cl. 114—67.

Graminski, Edmond L., and W. L. Wachtel, to Olin Mathieson Chemical Corp. Solid reaction products of lower alkyl decaboranes and alkyl cyanides. 3,030,407, 4–17–62, Cl. 260—465.1.

Graml, Hermann: *See*—
Butzke, Fritz, Graml, and Voelcker. 3,026,371.

Grammer, Reynold A., Jr., and W. Modney, to Eastman Kodak Co. Photocell circuits. 3,053,985, 9–11–62, Cl. 250—212.

Grams, Haroid E Piston grooving attachment. 3,032,334, 5–1–62, Cl. 269—133.

Gramse, Harold E.: *See*—
Muessel, Dan C., and Gramse. 3,042,957.

Granada TV Network Ltd.: *See*—
Hammans, Reginald H., Holt, and Babbs. 3,067,282.

Granath, Axel G.: *See*—
Kauffman, John H., McIlvaine, and Granath. 3,034,835.

Granberg, Albert J., to Granberg Corp. Turbine type meter. 3,053,086, 9–11–62, Cl. 73—230.

Granberg, Albert J., to Granberg Corp. Adjustable liquid meter. 3,053,088, 9–11–62, Cl. 73—259.

Granberg, Albert J. By-pass valve assembly for pumps of the positive displacement type. 3,054,354, 9–18–62, Cl. 103—42.

Granberg, Albert J., to Granberg Corp. Positive displacement type liquid meter assembly. 3,059,473, 10–23–62, Cl. 73—259.

Granberg, Albert J., to Granberg Corp. Turbine meter with minimized viscosity error. 3,060,740, 10–30–62, Cl. 73—230.

Granberg, Albert J., and E. Thuse; said Granberg assor. to Granberg Corp. Specific gravity responsive liquid meter. 3,020,758, 2–13–62, Cl. 73—194.

Granberg Corp.: *See*—
Granberg, Albert J. 3,053,086.
Granberg, Albert J. 3,053,088.
Granberg, Albert J. 3,059,473.
Granberg, Albert J. 3,060,740.
Granberg, Albert J., and Thuse. 3,020,758.

Granberg, Elof, to Nygran Industries Ltd. Apparatus for filing and jointing saw chains. 3,038,355, 6–12–62, Cl. 76—31.

Granby Industrial Brush Reg'd: *See*—
Dubois, Paul R. and M. H. 3,051,976.

Granco Products, Inc.: *See*—
Napolin, Seymour, and Harwood. 3,047,824.

Grandi, Constantine G.: *See*—
Davis, Carl H., Grand, and Saurino. 3,052,604.

Grand Sheet Metals Products Co.: *See*—
Rawson, Emanuel. 3,015,349.

Grand Specialties Co.: *See*—
Hopfeld, Fred P. 3,044,647.
Hopfeld, Fred P. 3,052,323.

Grandel, Leonard F., to AMP Inc. Hand tool for forming plastic tubing. 3,062,944, 11–6–62, Cl. 219—21.

Grander, Howard R., Jr.: *See*—
Coscia, Lewis G., and Grander. 3,045,094.

Grandey, Max F.: *See*—
Daunt, John E., and Grandey. 3,053,694.

Grand Haven Brass Foundry: *See*—
Jacobson, David I. 3,035,606.
Stille, Henry A. 3,057,371.

Grandidge, John E., to Mechanism Ltd. Pressure measuring devices. 3,041,879, 7–3–62, Cl. 73—398.

Grandin, Milton J.: *See*—
Lvall, George D., and Grandin. 3,047,311.

Grandine, Lester D., Jr.: *See*—
Goodman, Albert, Grandine, and Vosburgh. 3,060,157.

Grandjacques, Francois: *See*—
Greffe, Andre, Asselin, and Grandjacques. 3 054,670.

Grandjean, Arthur, to P. Chaze. Tracing device. 3,055,113, 9–25–62, Cl. 33—18.

Grandke, Max, to Daverio A.G. Sifting and concentrating device. 3,038,603, 6–12–62, Cl. 209—19.

Grand Rapids Hardware Co.: *See*—
De Bruyn, William T. 3,037,250.
Swierbut, Michael N., and Teggelaar. 3,028,640.
Teggelaar, Claude J. 3,046,618.

Grandstaff, Perry, to American Iron & Machine Works Co., Inc. Well swab. 3,066,614, 12–4–62, Cl. 103—225.

Grand Union Co., The: *See*—
Hinckley, Gardner I. 3,023,487.

Grandy, Andrew J. Gas pressure formed obturator. 3,058,-424, 10–16–62, Cl. 102—94.

Grandy, Andrew J., and R. S. Shulman, to United States of America, Army. Tubular explosive transmission line. 3,027,839, 4–3–62, Cl. 102—27.

Grandy, Andrew J., and C. A. Greenwood, to United States of America, Army. Multi-lead helical spring. 3,038,713, 6–12–62, Cl. 267—1.

Graneau, Peter, and Z. Bonikowski, to British Insulated Callender's Cables Ltd. Electrical analogue computing apparatus. 3,018,978, 1–30–62, Cl. 242—75.51.

Granelli, Pietro, to Societa Internazional Fonovisione. Automatic pictural film projection apparatus. 3,041,926, 7–3–62, Cl. 88—17.

Graner, William R. Method for determining uniformity of finish on fibrous glass reinforcement. 3,065,350, 11–20–62, Cl. 250—106.

Granet, Charles, G. E. R. Roland, and R. R. Craue. Adjustable shock absorber for vehicles with pneumatic suspension. 3,017,197, 1–16–62, Cl. 280—124.

Grangaard, Donald H., and G. H. Saunders, to Kimberly-Clark Corp. Manufacture of cellulosic products. 3,024,-158, 3–6–62, Cl. 162—17.

Granger, Fred L.: *See*—
Toda, Dean L., Deierhoi, and Granger. 3,042,733.

Granger, Thomas L.: *See*—
Marceys, Vernie W., and Granger. 3,050,264.
Granier, Hector J., to Geo. J. Meyer Mfg. Co. Filler valves for pulp drinks or the like. 3,018,804, 1–30–62, Cl. 141—286.
Granite Machine Co.: *See*—
Long, John R. 3,021,084.
Grankowski, Eugene, to Verson Allsteel Press Co. Hydraulic press. 3,033,143, 5–8–62, Cl. 113—44.
Grannen, Francis E. Separable button. 3,021,583, 2–20–62, Cl. 24—109.
Granqvist, Carl-Erik, to Svenska Aktiebolaget Gasaccumulator, Arrangement for radio direction finding. 3,020,547, 2–6–62, Cl. 343—114.
Granqvist, Carl-Erik, to Svenska Aktiebolaget Gasaccumulator. Arrangement in speaking radio beacons. 3,051,950, 8–28–62, Cl. 343—106.
Granryd, Thorvald G., to The Frank G. Hough Co. Tractor loader bucket lifting arrangement. 3,022,911, 2–27–62, Cl. 214—140.
Granryd, Thorvald G., to The Frank G. Hough Co. Motor vehicle transmission controls. 3,059,495, 10–23–62, Cl. 74—472.
Granryd, Thorvald G., and H. A. Mark, to The Frank G. Hough Co. Tractor loaders. 3,065,870, 11–27–62, Cl. 214—140.
Granström, Olof A.: *See*—
Fredriksson, Per S. E., Granström, and Gustafson. 3,032,289.
Grant, Arthur W., and D. J. Martin, to United States Rubber Co. Method of making tire molds. 3,067,506, 12–11–62, Cl. 29—128.
Grant, Charles H. Devices for producing and controlling airflow around airfoils. 3,026,067, 3–20–62, Cl. 244—42.
Grant, Chester A., and A. H. Strand, to Gaylord Bros., Inc. Book charging machine or the like for library and other uses. 3,058,419, 10–16–62, Cl. 101—269.
Grant, Clyde P., G. Forrester, and R. L. Smith, to S. D. Warren Co. Bump detector. 3,037,381, 6–5–62, Cl. 73—159.
Grant, Cuthbert: *See*—
Ortiz, Ralph G., Grant, and Markel. 3,068,341.
Grant, Daniel J., to United States of America, Army. Method of locating the center of gravity of a missile section. 3,037,376, 6–5–62, Cl. 73—65.
Grant, Denison W. Game apparatus for practice use by lawn bowlers. 3,022,074, 2–20–62, Cl. 273—39.
Grant, Don S.: *See*—
Benkoczy, Andrew J., and Grant. 3,034,020.
Grant, Edwin A., Jr., to Minnesota Mining and Mfg. Co. Stabilized chemically reactive heat-sensitive copy-sheet. 3,028,264, 4–3–62, Cl. 117—36.
Grant, Frederic F., to North American Aviation, Inc. Saturable magnetic head. 3,016,427, 1–9–62, Cl. 179—100.2.
Grant, Gardner L.: *See*—
Antonoff, Walter, and Grant. 3,037,604.
Grant, Gardner L., and J. C. Hosken, to Universal Controls, Inc. Fare collection and categorizing apparatus. 3,018,038, 1–23–62, Cl. 235—29.
Grant, Gardner L., and J. C. Hosken, to Universal Controls, Inc. Fare collection and signal system for toll roads. 3,018,469, 1–23–62, Cl. 340—31.
Grant, Gerald E., to Caterpillar Tractor Co. Hydraulic controls for an earthmoving blade or the like. 3,027,722, 4–3–62, Cl. 60—97.
Grant, Harold S.: *See*—
Stroud, Vincent D., and Grant. 3,022,504.
Grant, James J. Toilet paper holder. 3,061,217, 10–30–62, Cl. 242—55.2.
Grant, Lloyd L., Jr.: *See*—
Racette, Henry W., and Grant. 3,042,986.
Grant, Louis H. Power tools for sheet-metal repair work. 3,029,859, 4–17–62, Cl. 153—32.
Grant, Louis R., and M. D. Taylor, to Callery Chemical Co. Preparation of anhydrous lithium salts. 3,049,406, 8–14–62, Cl. 23—89.
Grant, Malcolm I. G.: *See*—
Masters, Kenneth W., Grant, and Double. 3,059,121.
Grant, Nicholas J. Ceramic coated metal bodies. 3,061,482, 10–30–62, Cl. 148—6.
Grant, Nicholas J. Method of producing dispersion hardened titanium alloys. 3,070,468, 12–25–62, Cl. 148—20.3.
Grant, Nicholas J., and A. G. Bucklin; said Bucklin assor. to said Grant. Nickel-chromium-aluminum heat resisting alloy. 3,015,558, 1–2–62, Cl. 75—171.
Grant, Nicholas J., and K. M. Zwilsky; said Zwilsky assor. to said Grant. Production of dispersion strengthened metals. 3,069,759, 12–25–62, Cl. 29—182.5.
Grant, Nicholas J., and K. M. Zwilsky, to New England Materials Laboratory, Inc. Method for processing dispersion strengthened metals. 3,070,439, 12–25–62, Cl. 75—206.
Grant, Nicholas J., and K. M. Zwilsky; said Zwilsky assor. to said Grant. Production of dispersion hardened metals. 3,070,440, 12–25–62, Cl. 75—206.
Grant, Norman H.: *See*—
Alburn, Harvey E., Grant, and Clark. 3,032,473.
Grant Oil Tool Co.: *See*—
Auer, Leland S. 3,031,742.
Castelvecchi, John J. 3,016,604.
Grant, Paul M., to International Business Machines Corp. Thin film switching circuit. 3,037,199, 5–29–62, Cl. 340—174.
Grant, Paul M., and R. V. Penney, to International Business Machines Corp. Thin film magneto resistance device. 3,016,507, 1–9–62, Cl. 338—32.
Grant, Robert S. Medical examination table. 3,016,275, 1–9–62, Cl. 312—209.
Grant, Samuel, to Helene Curtis Industries, Inc. Aluminium organic complex and anti-perspirant compositions containing the same. 3,030,274, 4–17–62, Cl. 167—90.
Grant, Whitney I., and J. W. Deroche, to Vilter Mfg. Corp. Method of unloading two stage compressors. 3,070,282, 12–25–62, Cl. 230—26.
Grant, William H. Adjustable boom crane. 3,029,954, 4–17–62, Cl. 212—55.
Grant, William H. Tea bag package. 3,057,729, 10–9–62, Cl. 99—77.1.
Grantham, Frederick W. Washing machine. 3,058,330, 10–16–62, Cl. 68—58.
Grantham, Frederick W., to J. Grantham. Laundry apparatus. 3,067,986, 12–11–62, Cl. 259—3.
Grantham, Joann: *See*—
Grantham, Frederick W. 3,067,986.
Grantham, Raymond J., to Callery Chemical Co. Gas evolving protective coating. 3,019,114, 1–30–62, Cl. 106—13.
Grantham, Rodney E., to United States of America, Navy. VHF aircraft antenna. 3,025,523, 3–13–62, Cl. 343—705.
Grantham, Rodney E., S. J. Raff, H. C. Hoffman, Jr., S. B. Pulliam, and P. Yaffee, to United States of America, Navy. Miss distance telemetering system. 3,034,115, 5–8–62, Cl. 343—6.
Grantham, Rodney E., and L. Hardis, to United States of America, Navy. Doppler-frequency curve plotter. 3,052,032, 9–4–62, Cl. 33—27.
Grantham, William G., to American Viscose Corp. Coating composition comprising cellulose derivative and a crystalline polymer. 3,051,670, 8–28–62, Cl. 260—17.
Grantz, Kurt: *See*—
Brendel, Oskar, Grantz, Hofstadt, and Franz. 3,049,760.
Granzow, Clarence E. Electric circuit board. 3,040,19, 6–19–62, Cl. 174—68.5.
Grapentin, Kurt: *See*—
Ebert, Hans, Ritter, Harmsen, and Grapentin. 3,067,006.
Grapes, Eugene F.: *See*—
Patterson, William W., III, and Grapes. 3,021,924.
Patterson, William W., III, and Grapes. 3,033,531.
Graphic Controls Corp.: *See*—
Dierks, Raymond W. 3,036,287.
Grapp, Stanley A., to General Mills, Inc. Tear strip package. 3,065,896, 11–27–62, Cl. 229—51.
Grapp, Stanley A., to General Mills, Inc. End closure for cartons. 3,065,897, 11–27–62, Cl. 229—51.
Graser, Fritz: *See*—
Eisele, Julius, Federkiel, Schuster, Gehm, Tartter, Graser, Rohland, and Stoecki. 3,037,030.
Graser, Fritz, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Dyes of the perinaphthoylene-benzimidazole series. 3,031,281, 4–24–62, Cl. 260—282.
Grass, Albert M. Variable speed paper feeding drive. 3,026,011, 3–20–62, Cl. 226—178.
Grass, Otto R. Flexible connector for rigid pipes. 3,052,491, 9–4–62, Cl. 285—233.
Grass, Richard B.: *See*—
Lowe, Alexander K., and Grass. 3,030,750.
Grassau, Franz, to Rud. Osberghaus, Firma. Safety razor. 3,052,979, 9–11–62, Cl. 30—67.
Grasselli, Robert, and K. J. Allsing, to Universal Oil Products Co. Thermal diffusion method. 3,064,814, 11–20–62, Cl. 210—72.
Grassl, Simon. Cervical collars. 3,050,052, 8–21–62, Cl. 128—75.
Grassl, Simon. Neck supporting device. 3,060,930, 10–30–62, Cl. 128—75.
Grassmann, Wolfgang, and K. Hannig. Method and apparatus for the continuous colorimetric determination of the individual components of a mixture. 3,059,524, 10–23–62, Cl. 88—14.
Grasso's Koninklijke Machinefabrieken N.V.: *See*—
Van Heyst, Leonardus H. M. 3,026,691.
Graswich, Edward, and J. W. Cedarquist, to Dobrmann Hotel Supply Co. Fire door. 3,065,687, 11–27–62, Cl. 98—115.
Grate, Lorene G. Skin care lotion. 3,062,721, 11–6–62, Cl. 167—91.
Grath, Gustaf-Bertil L., to Aktiebolaget Stille-Werner. Surgical screw connector. 3,051,169, 8–28–62, Cl. 128—92.
Grathwol, Margaret D.: *See*—
Grathwol, William L. 3,019,826.
Grathwol, William L., deceased, by M. D. Grathwol, executrix. Wood trimming machine having improved cutter protective means. 3,019,826, 2–6–62, Cl. 144—216.
Gratian, Joseph W., to General Dynamics Corp. Semiconductor magnetic pickup. 3,041,414, 6–26–62, Cl. 179—100.2.
Gratian, Joseph W., to General Dynamics Corp. Elimination of amplitude distortion noise. 3,041,415, 6–26–62, Cl. 179—100.2.
Gratian, Joseph W., to General Dynamics Corp. Transverse boundary-displacement recording head. 3,051,796, 8–28–62, Cl. 179—100.2.
Gratian, Joseph W., and R. J. O'Brien, to General Dynamics Corp. Pronunciary. 3,020,360, 2–6–62, Cl. 179—100.2.

Grattan, Worthin F. Automatic transmission for automotive vehicles 3,063,309, 11–13–62, Cl. 74—731.

Gratzmuller, Jean L. Device for controlled slow-rate continuous fluid-flow. 3,028,876, 4–10–62, Cl. 137—501.

Gratzmuller, Jean L. Hydraulic device for interlocking two hydraulic piston-cylinder units. 3,030,930, 4–24–62, Cl. 121—40.

Gratzmuller, Jean L. Return-spring system in a pressure-fluid cylinder. 3,039,758, 6–19–62, Cl. 267—1.

Gratzmuller, Jean L. Hydro-pneumatic accumulators. 3,064,686, 11–20–62, Cl. 138—31.

Gratzmuller, Jean L. High pressure containers. 3,070,127, 12–25–62, Cl. 138—31.

Grau, Harry R., to Bio-Physical Research, Inc. Intravenous injection device. 3,048,171, 8–7–62, Cl. 128—214.

Grau, Theodore H. Hopper attachment for a forage harvester. 3,059,566, 10–23–62, Cl. 99—235.

Graulich, Hubert. Storm shutter assembly. 3,020,951, 2–13–62, Cl. 106—35.

Graulich, Wilhelm: *See*—
Heinz, Anton R., and Graulich. 3,019,192.
Heinz, Anton R., Rosahl, Graulich, and Esser. 3,050,509.
Rosahl, Dietrich, Gaulich, Holzrichter, and Hermann. 3,054,192.

Graulich, Wilhelm, W. Lehmann, O. Bayer, W. Kass, and W. Berlenbach, to Farbenfabriken Bayer Aktiengesellschaft. Process of treating textile with a copolymer and a cross linking agent. 3,062,686, 11–6–62, Cl. 117—161.

Graulig, Oskar, and J. Jackson, to American Machine & Foundry Co. Apparatus for wrapping. 3,021,768, 2–20–62, Cl. 93—44.1.

Graves, Charles T., to General American Transportation Corp. Vent structures for tank safety valves. 3,060,962, 10–30–62, Cl. 137—583.

Graves, Donald L., to Electronics Corp. of America. Fuel burner control apparatus. 3,064,719, 11–20–62, Cl. 158—28.

Graves, Edward B., to Picker X-Ray Corp., Waite Mfg. Div., Inc. X-ray apparatus. Re. 25,118, 1–30–62, Cl. 250—93.

Graves, Edward B. Mounting bracket. 3,033,500, 5–8–62, Cl. 248—4.

Graves, Edward B., to Picker X-ray Corp., Waite Mfg. Division, Inc. Protection device for rotating anode X-ray tube. 3,043,957, 7–10–62, Cl. 250—103.

Graves, Edward B., and E. J. Bastin, to Picker X-Ray Corp., Waite Mfg. Div., Inc. Viewing apparatus for amplified X-ray images. 3,018,375, 1–23–62, Cl. 250—77.

Graves, Frederick E., to Russell, Burdsall & Ward Bolt and Nut Co. Plastic threaded plugs. 3,027,042, 3–27–62, Cl. 220—39.

Graves, George O.: *See*—
Graves, Verl K. 3,047,340.

Graves, George O. Food processing machine. 3,037,442, 6–5–62, Cl. 99—238.

Graves, George O. Food processing machine. 3,067,671, 12–11–62, Cl. 99—238.

Graves, Herbert C., Jr., to Gibson Electric Co. Contact for forge welding methods. 3,034,202, 5–15–62, Cl. 29—155.55.

Graves, James G. Blanket clamp for off-set press. 3,062,-141, 11–6–62, Cl. 101—415.1.

Graves, Ralph M., ½ to Roane Hosiery, Inc. Cutter attachment for looping machines. 3,051,104, 8–28–62, Cl. 112—25.

Graves, Robert W.: *See*—
Contreras, Gilbert E., and Graves. 3,016,249.

Graves, Robert W., to Aeroquip Corp. Pressure compensating expansion joint. 3,051,515, 8–28–62, Cl. 285—228.

Graves, Roy R., to The Graves-Stambaugh Corp. Sterilized liquid food product packaging. 3,063,211, 11–13–62, Cl. 53—183.

Graves, Roy R., to The Graves-Stambaugh Corp. Sterilized liquid food product packaging and package resulting therefrom. 3,063,845, 11–13–62, Cl. 99—171.

Graves, Shelby J.: *See*—
Canalizo, Carlos R., and Graves. 3,064,628.
Raulins, George M., and Graves. 3,048,358.

Graves, Shelby J., to Otis Engineering Corp. Well tools. 3,042,065, 7–3–62, Cl. 137—155.

Graves-Stambaugh Corp., The: *See*—
Graves, Roy R. 3,063,211.
Graves, Roy R. 3,063,845.

Graves, Verl K., to George O. Graves. Material handling apparatus. 3,047,340, 7–31–62, Cl. 302—17.

Graviner Mfg. Co. Ltd.: *See*—
Griffiths, Rupert. 3,045,326.

Gravley, Charles K.: *See*—
Williams, Alfred L. W., and Gravley. 3,052,949.

Gravley, Charles K., to Clevite Corp. Heat reaction apparatus. 3,054,606, 9–18–62, Cl. 263—8.

Gravlin, Earl W.: *See*—
Koelsch, Emery F., and Gravlin. 3,025,995.

Gravure Enterprises, Inc.: *See*—
Sportelli, Frank A. 3,024,111.

Gravure Research, Inc.: *See*—
George, Harvey F., and Kimball. 3,032,245.

Gray, Alfred E.: *See*—
Azari, Eric, Gray, Malin, Nelson, and Thompson. 3,029,021.

Gray, Allan P.: *See*—
Cavallito, Chester J., and Gray. 3,022,308.
Cavallito, Chester J., and Gray. 3,055,939.

Gray, Allan P., to Irwin, Neisler, and Co. Pyridyl carbamyl lower alkane derivatives: analgesic process. 3,039,930, 6–19–62, Cl. 167—65.

Gray, Allan P., and T. B. O'Dell, to Irwin Neisler & Co. Analgesic aralkyl-pyridines. 3,063,902, 11–13–62, Cl. 167—65.

Gray, Alvin E., to International Business Machines Corp. Sorting macaine. 3,033,355, 5–8–62, Cl. 209—74.

Gray, Alvin E., and L. A. Wilson, to International Business Machines Corp. Sorting machine. 3,024,904, 3–13–62, Cl. 209—74.

Gray, Arthur E., to Pittsburgh Chemical Co. Apparatus for coating pipe surfaces. 3,029,027, 4–10–62, Cl. 239—215.

Gray, Arthur E., and G. N. Gleysteen, to Pittsburgh Chemical Co. Apparatus and method for coating pipe surfaces. 3,034,729, 5–15–62, Cl. 239—215.

Gray, Arthur I. Condition monitoring device. 3,035,443, 5–22–62, Cl. 73—343.5.

Gray, Basil P., and C. W. Montgomery, to Ethyl Corp. Rigid polyvinyl chloride compositions containing low molecular weight styrene polymer. 3,058,943, 10–16–62, Cl. 260—33.6.

Gray, Cameron E., and O. P. Smith. Wind powered turbine exhauster. 3,066,596, 12–4–62, Cl. 98—72.

Gray, Charles E.: *See*—
Morgan, John F., and Gray. 3,048,132.

Gray, Charles L., Jr., and R. H. Dettre, to E. I. du Pont de Nemours and Co. Process for increasing the scratch resistance of glass. 3,051,593, 8–28–62, Cl. 117—124.

Gray, Cyril: *See*—
Brown, Kenneth R., and Gray. 3,024,409.

Gray, Dan E. Single pass log sawing machine. 3,062,249, 11–6–62, Cl. 143—1.

Gray, Eddie T. Y. Agricultural machinery. 3,022,909, 2–27–62, Cl. 214—131.

Gray, Edward E., K. R. Hackett, and K. E. McFarland, to General Precision, Inc. Radar simulation. 3,031,774, 5–1–62, Cl. 35—10.4.

Gray, Edward E., P. N. Schink, and R. S. C. Young, to General Precision Inc. Terrain radar simulation. 3,067,526, 12–11–62, Cl. 35—10.4.

Gray, Elmer J.: *See*—
Allison, William D. 3,037,789.

Gray, Eugene B., and C. C. De Pew, to Aerpat A.G. Turbine rotor mounting. 3,043,563, 7–10–62, Cl. 253—77.

Gray, G. A., Co., The: *See*—
Foster, Theodore D. 3,068,052.
Walter, John M. 3,031,896.
Walter, John M., and Marx. 3,040,632.

Gray, Geoffrey T., to Toledo Scale Corp. Adjustable chart sensing mechanism. 3,024,973, 3–13–62, Cl. 235—1.

Gray, Geoffrey T., to Toledo Scale Corp. Printer. 3,031,955, 5–1–62, Cl. 101—96.

Gray, Hiram J., and J. T. Leone, to Eastman Kodak Co. Paper having improved characteristics and its preparation. 3,015,537, 1–2–62, Cl. 8—121.

Gray, Gordon E., to R. M. Hill and G. E. Gray. Instrument construction. 3,040,698, 6–26–62, Cl. 116—129.

Gray, Harold P. Tractor hitch organization. 3,056,458, 10–2–62, Cl. 172—448.

Gray, Harry J., Jr., and J. G. Nordahl, to Sperry Rand Corp. Transistor amplifiers for pulse signals. 3,039,009, 6–12–62, Cl. 307—88.5.

Gray, Harry Z. Composite cleaning article and method of manufacturing same. 3,040,353, 6–26–62, Cl. 15—118.

Gray, Homer, and F. O. Andrews, Press for applying handle to containers. 3,036,371, 5–29–62, Cl. 29—235.

Gray, James F. Support and drive mechanism for tumblers. 3,033,057, 5–8–62, Cl. 74—674.

Gray, John J. Ventilating tension screed support and hood construction. 3,057,287, 10–9–62, Cl. 98—115.

Gray, John W.: *See*—
Blumenfeld, Arthur C., and Gray. 3,039,063.
Tull, William J., and Gray. 3,032,756.

Gray, John W. Spear gun. 3,026,864, 3–27–62, Cl. 124—27.

Gray, John W., to General Precision, Inc. Integrator with means for compensating for capacity absorption effects. 3,047,808. 7–31–62. Cl. 328—127.

Gray, John W., to General Precision, Inc. Dual aerial navigation system. 3,070,796, 12–25–62, Cl. 343—112.

Gray, John W., S. King, and J. Reed, to General Precision, Inc. Signal-to-noise detector. 3,061,830, 10–30–62, Cl. 343—8.

Gray, Kenneth R.: *See*—
Smith, Norman H., and Gray. 3,025,235.

Gray, Kenneth R., and F. W. Herrick, to Rayonier Inc. Reaction products of polymethylol phenol and sulfited tannins. 3,062,783, 11–6–62, Cl. 260—49.

Gray, Leslie V., and J. P. Feightner. Electric watch analyzer. 3,038,121, 6–5–62 Cl. 324—157.

Gray, Lowell C., and L. H. Bishop, to The Bendix Corp. Three-position latching solenoid actuator. 3,070,730, 12–25–62, Cl. 317—190.

Gray Mfg. Co., The: *See*—
Fleming, Ronald F. 3,031,530.
Helm, Charles W., Jr., and Moore. 3,024,322.

Gray, Margery P., to Wisconsin Alumni Research Foundation. Process of preparing anti-H lectin. 3,053,739, 9–11–62, Cl. 195—4.

Gray Marine Motor Co.: *See*—
Bartlow, Jack R. 3,050,934.

Gray, Norman J. Quick-release magnetic buckle. 3,027,617, 4–3–62, Cl. 24—201.
Gray, Preston R., to Bell Telephone Laboratories, Inc. Interswitching center transfer arrangement. 3,057,963, 10–9–62, Cl. 179—42.
Gray, Raymond K., and S. C. Wolniak, to The Illinois Lock Co. Valve for door closer. 3,064,303, 11–20–62, Cl. 16—52.
Gray, Reuben F., to United States of America, Navy. Lower face, high pressure mask. 3,044,464, 7–17–62, Cl. 128—142.
Gray, Robert A., F. Lamb, and L. Mandel, to Kleer-Site Corp. Eyeglass liquid applicator device. 3,048,878, 8–14–62, Cl. 15—512.
Gray, Robert A., Jr., and S. R. Woolford, to Mueller Brass Co. Forming tool for plastic pipe. 3,042,965, 7–10–62, Cl. 18—1.
Gray, Robert B., to Erie Resistor Corp. Amplifier system for stereo sound. 3,053,934, 9–11–62, Cl. 179—1.
Gray, Robert J., and W. E. Carter, to Airtex Products, Inc. Ball joint, and securing and dust shield means therefor. 3,061,344, 10–30–62, Cl. 287—87.
Gray, Robert M. Block handling apparatus. 3,019,925, 2–6–62, Cl. 214—310.
Gray, Roland H., Jr., R. J. Rygwelski, and R. G. Tigner, to The Dow Chemical Co. Process for extending the film forming life of a latex of a crystalline vinylidene chloride-acrylonitrile copolymer. 3,047,527, 7–31–62, Cl. 260—29.6.
Gray, Ruth C. Garment drying appaartus . 3,069,021, 12–18–62, Cl. 211—178.
Gray, Samuel A., to Hydraulic Research and Mfg. Co. Dynamic pressure feedback servo valve. 3,042,005, 7–3–62, Cl. 121—41.
Gray, Sidney, to Radio Corp. of America. Weather display and forecasting system. 3,026,501, 3–20–62, Cl. 340—182.
Gray Tool Co. : *See*—
Watts, John D. 3,021,974.
Watts, John D. 3,055,537.
Watts, John D., and Ireland. 3,052,301.
Watts, John D., and Pierce. 3,051,513.
Gray, Walter W., to Specialties, Inc. Rate of climb indicator. 3,040,569, 6–26–62, Cl. 73—179.
Gray, Willard F. M., to General Electric Co. Edge coating method. 3,044,892, 7–17–62, Cl. 117—10.
Gray, William J. Rolling sphere having means for accommodating an occupant therewithin. 3,066,951, 12–4–62, Cl. 280—206.
Gray, William P. Calculator. 3,070,296, 12–25–62, Cl. 235—77.
Graybeal, Warren E., to Nelson Laboratories, Inc. Switch. 3,033,126, 5–8–62, Cl. 104—101.
Graybeal, Warren E., to Stewart-Warner Corp. Transfer mechanism. 3,045,801, 7–24–62, Cl. 198—24.
Graybill, Clinton L., to Graybill Industries, Inc. Fluid distribution systems and controlling fluid motor with piston actuated reversing valve means. 3,042,074, 7–3–62, Cl. 137—509.
Graybill, Clinton L., to Graybill Industries, Inc. Automatic variable speed transmission. 3,054,298. 9–18–62, Cl. 74—230.17.
Graybill, Howard W., to I-T-E Circuit Breaker Co. High voltage double break interrupter switch. 3,046,365, 7–24–62, Cl. 200—48.
Graybill Industries, Inc. : *See*—
Graybill, Clinton L. 3,042,074.
Graybill, Clinton L. 3,054,298.
Grayboff, Marilyn. Light-transmitting structural panel. 3,046,616. 7–31–62, Cl. 20—15.
Grayhill, Inc. : *See*—
Scherry, George A. 3,030,131.
Grayson, Martin, and P. T. Keough, to American Cyanamid Co. Process for preparing organic phosphine oxides and olefins. 3,067,258, 12–4–62, Cl. 260—606.5.
Grayson, Richard D., to General Controls Co. Means and techniques for sensing and controlling temperatures. 3,040,581, 6–26–62, Cl. 73—368.3.
Grayson, Richard D., and L. Newton, to General Controls Co. Valve structure. 3,063,639, 11–13–62, Cl. 236—21.
Grazen, Alfred E., to Platecraft of America, Inc. Method for electroforming and coating. 3,061,525, 10–30–62, Cl. 204—9.
Great Atlantic & Pacific Tea Co., Inc. : *See*—
Cathcart, William H., Beattie, and Berquist. 3,038,807.
Greatbatch, Wilson, to Taber Instrument Corp. Transistor amplifier with temperature compensation. 3,025,472, 2–13–62, Cl. 330—19.
Greatbatch, Wilson, to Taber Instrument Corp. Compensated balanced transistor amplifiers. 3,036,274, 5–22–62, Cl. 330—15.
Greatbatch, Wilson, to Wilson Greatbatch, Inc. Medical cardiac pacemaker. 3,057,356, 10–9–62, Cl. 128—422.
Greatbatch, Wilson, Inc. : *See*—
Greatbatch, Wilson. 3,057,356.
Great Dane Trailers, Inc. : *See*—
Jewell, Robert A. 3,028,192.
Jewell, Robert A. 3,036,679.
Greathouse, Glen A., and A. B. Taylor, to Mar-Tay, Inc. Biocidal compositions for topical application. 3,023,144, 2–27–62, Cl. 167—58.
Great Lakes Carbon Corp. : *See*—
Best, Bushnell. 3,035,901.
Toelke, Lester W. 3,064,734.
Triska, Alfred A. 3,058,821.
Great Lakes Products, Inc. : *See*—
Hammer, Maurice J. 3,028,115.
Great Lakes Tractor Co., The : *See*—
Snider, William R. 3,044,241.
Great Neck Saw Manufacturers, Inc. : *See*—
Jacoff, Richard. 3,047,139.
Great Northern Paper Co. : *See*—
Manzo, Richard L., and St. John. 3,067,445.
Great Western Mfg. Co. : *See*—
Miller, Rufus E. 3,032,200.
Greaves, Fred G. : *See*—
Putnam, Edgar G., and Greaves. 3,034,576.
Greaves, Fred G. Material handling slide valve. 3,058,625, 10–16–62, Cl. 222—137.
Greaves, Harry E., to Minneapolis-Honeywell Regulator Co. Controlling apparatus. 3,056,417, 10–2–62, Cl. 137—86.
Greaves & Thomas Ltd. : *See*—
Cobb, William R. 3,016,265.
Greaves, Thomas W. : *See*—
Carpenter, Robert G., King, and Greaves. 3,034,271.
Grebby, John W., S. G. Hawtin, and J. E. Downing, to British Celanese Ltd. Cellulose derivative materials. 3,046,608, 7–31–62, Cl. 18—48.
Grebe, Carl E. : *See*—
Rice, Warren A. 3,032,137.
Grebe, John J., and J. F. Miller, to The Dow Chemical Co. Production of cement. 3,044,756, 7–17–62, Cl. 263—53.
Grebner, Helmut : *See*—
Potzsch, Helmut. 3,036,676.
Greby, Daniel F., to Parkersburg-Aetna Corp. Roller bearing with undulated retainer. 3,038,767, 6–12–62, Cl. 308—217.
Greco, Guido, to Montecatini, Societa Generale per l'Industria Mineraria e Chimica. Apparatus for producing synthesis gas containing Co and H_2 without catalysts. 3,052,288, 9–4–62. Cl. 158—118.
Greco, Guido, L. Luciani, and U. Soldano, to Societa Generale per l'Industria Mineraria e Chimica Montecatini. Process for producing concentrated urea-formaldehyde solutions by absorbing gaseous formaldehyde in aqueous urea solutions. 3,067,177, 12–4–62, Cl. 260—69.
Greco, Michael. Tire valve. 3,033,263, 5–8–62, Cl. 152—427.
Greco, Michael. Folding wall. 3,060,521, 10–30–62, Cl. 20—4.
Greco, Nicholas P. : *See*—
Rosenthal, Robert W., Proper, and Greco. 3,066,165.
Greco, Norman A., to General Electric Co. Transmission line windows. 3,039,068, 6–12–62, Cl. 333—98.
Greco, Peter, to Burndy Corp. Electrical connector for printed circuit boards. 3,069,652, 12–18–62, Cl. 339—176.
Greco, Thomas J. Circuit controller. 3,038,103, 6–5–62, Cl. 315—241.
Greczin, John, to Singer-Fidelity, Inc. Flexible hose. 3,049,-901, 8–21–62, Cl. 66—190.
Gredigk, Josef : *See*—
Hartmann, Kurt, Hüsing, Seidel, Deppe, and Gredigk. 3,057,008.
Greefkes, Johannes A. : *See*—
De Jager, Frank, and Greefkes. 3,020,352.
Greeley, Leo A., deceased, by Cadillac State Bank, executor, to J. F. McCarthy Inc. Road scrapers. 3,022,587, 2–27–62, Cl. 37—159.
Greeley, Leo O., to F. J. McCarthy Inc. Locking clamp. 3,028,699, 4–10–62, Cl. 37—159.
Green, Alfred J., to Wright Rain Ltd. Water sprinklers. 3,033,469, 5–8–62, Cl. 239—230.
Green, Armin H. : *See*—
Schlage, Ernest L., and Green. 3,057,053.
Green, Arthur K. : *See*—
Koshaba, Wilson, and Green. 3,025,713.
Green, Carl : *See*—
Bergren, Stephen L., and Green. 3,027,471.
Green, Daniel M., K. J. Kohnle, and R. J. Elliott, to Grove Laboratories Inc. Gel composition, pressurized container with same and method of preparation. 3,051,621, 8–28–62, Cl. 167—65.
Green, David A. : *See*—
Thomson, Ernest E., Green, and Holton. 3,039,016.
Green, David J., to Lear, Inc. Probability curve and error limit computer. 3,018,049, 1–23–62, Cl. 235—184.
Green, David J., A. G. Van Alstyne, G. M. Moore, Jr., R. W. Sanders, Q. L. Bonness, A. R. Noland, and V. Olson, to Gilfillan Bros., Inc. Air traffic control system. 3,031,658, 4–24–62, Cl. 343—6.
Green, Donald T., to Picker X-Ray Corp., Waite Mfg. Div., Inc. Isotope X-ray. 3,046,430, 7–24–62, Cl. 313—57.
Green, Edward H. Aerosol dispenser valve. 3,045,877, 7–24–62, Cl. 222—394.
Green, Emil, and S. Schlanger. Cable armor cutters. 3,022,574, 2–27–62, Cl. 30—90.5.
Green, Evelyn V., and P. R. Hines. Sheet handling apparatus. 3,053,531, 9–11–62, Cl. 271—53.
Green, Francis E., Jr., to Eureka Specialty Printing Co. Dispensing package and box for strip materials. 3,016,135, 1–9–62, Cl. 206—52
Green, Franklin H., to Pittsburgh Plate Glass Co. Method and apparatus for forming fibers. 3,041,663, 7–3–62, Cl. 18—8.
Green, Franklin H., to Pittsburgh Plate Glass Co. Apparatus for forming fibers. 3,041,664, 7–3–62, Cl. 18—8.
Green, Frederick H., to The Garrett Corp. High pressure ratio air conditioning system. 3,026,681, 3–27–62, Cl. 62—5.

Green, Frederick H., to The Garrett Corp. Cooling device. 3,027,726, 4–3–62, Cl. 62—5.
Green, George F. H. : *See*—
Long, Alan G., Eardley, and Green. 3,060,199.
Green, Harold A. : *See*—
Erner, William E., and Green. 3,050,520.
Erner, William E., Green, and Mills. 3,050,523.
Green, Harold A., to Air Products and Chemicals, Inc. Synthesis of imidazoles. 3,037,028, 5–29–62, Cl. 260—309.
Green, Harry S. : *See*—
Swales, Frank, Kurvers, and Green. 3,019,653.
Green, Homer H., R. R. Radke, and R. R. Steingas, to Motec Industries Inc. Tractor mounted harvesters. 3,043,376, 7–10–62, Cl. 172—274.
Green, Hugh M. : *See*—
Green, William P., R. M., and H. M. 3,066,438.
Green, Jack, to California Research Corp. Comparison logging of geologic formation constituents. 3,061,725, 10–30–62. Cl. 250—83.3.
Green, James E. Portable trailer. 3,053,563, 9–11–62, Cl. 296—27.
Green, James H., Jr., and J. Gordon, to Sylvania Electric Products Inc. Selective calling system. 3,069,657, 12–18–62, Cl. 340—171.
Green, James T. and K. J. Water ski construction. 3,040,345, 6–26–62, Cl. 9—310.
Green, James W. Ornamental watch stand. 3,062,491, 11–6–62. Cl. 248—116.
Green, John A., to Borg-Warner Corp. Device for removing a motor and impeller assembly from a liquid booster pump assembly mounted within a liquid supply tank. 3,064,340, 11–20–62, Cl. 29—240.
Green, John G. Towed underwater vehicle. 3,065,722, 11–27–62, Cl. 114—16.
Green, John, Press, Inc. : *See*—
Porter, Robert W. 3,043,734.
Green, Joseph. Toys. 3,040,476, 6–26–62, Cl. 46—118.
Green, Kenneth J. : *See*—
Green, James T. and K. J. 3,040,345.
Green, Leland W. Internal conduit coating method and apparatus. 3,041,204, 6–26–62, Cl. 117—97.
Green, Martin J. Power driven pencil sharpeners. 3,026,848, 3–27–62, Cl. 120—96.
Green, Max D. Inverted turbine. 3,026,088, 3–20–62, Cl. 253—165.
Green, Milton : *See*—
Blout, Elkan R., Green, Rogers, Simon, and Woodward. 3,019,107.
Green, Milton, to Polaroid Corp. Photographic products, processes and compositions. 3,022,167, 2–20–62, Cl. 96—61.
Green, Milton, to Polaroid Corp. Catalytic hydrogenation of 2,5-dialkoxy-β-nitrostyrene to produce β-aminoethylhydroquinone. 3,062,884, 11–6–62, Cl. 260—570.8.
Green, Milton, and H. P. Husek, to Polaroid Corp. O-acyl derivatives of amino-aralkylene-substituted hydroquinones and catechols. 3,019,254, 1–30–62, Cl. 260—479.
Green, Milton, and M. S. Simon, to Polaroid Corp. Photographic products, processes and compositions. 3,022,166, 2–20–62, Cl. 96—61.
Green, Milton, and W. E. Soledar, to Polaroid Corp. 4-polyalkyleneoxy-1-naphthols. 3,022,354, 2–20–62, Cl. 260—613.
Green, Milton, and H. G. Rogers, to Polaroid Corp. Novel photographic products, compositions and processes. 3,043,690, 7–10–62, Cl. 96—29.
Green, Milton, and W. E. Soledar, to Polaroid Corp. Novel substituted silver halide developing agents. 3,061,434, 10–30–62, Cl. 96—66.
Green, Nathan : *See*—
Beroza, Morton, Green, and Gertler. 3,016,329.
Green, Ralph J., to Tung-Sol Electric Inc. Casing for semiconductor diode. 3,025,435, 3–13–62. Cl. 317—234.
Green, Ralph J., to Tung-Sol Electric Inc. Method of forming ohmic contact to silicon. 3,031,747, 5–1–62, Cl. 29—473.1.
Green, Richard J., and J. W. Borger, to Pullman Inc. Container for pulverant materials and apparatus for unloading same. 3,069,208, 12–18–62, Cl. 302—52.
Green, Robert P., and H. Judd, to Champion Papers Inc. Method of recovering titanium compounds. 3,043,655, 7–10–62, Cl. 23—87.
Green, Rose M. : *See*—
Green, William P., R. M., and H. M. 3,066,438.
Green, Rowland P., to Stothert & Pitt Ltd. Concrete mixing machines. 3,062,515, 11–6–62, Cl. 259—177.
Green, Royal D. Internal combustion engine fuel charge former. 3,028,846. 4–10–62, Cl. 123—25.
Green, William D., Jr., and R. P. Bartlett, to Consolidated Cigar Corp. Method of and apparatus for color classification. 3,048,270, 8–7–62, Cl. 209—111.5.
Green, William E. : *See*—
Johnson, Stanley E., and Green. 3,025,471.
Green, William G. Drilling rate recorder. 3,017,770, 1–23–62, Cl. 73—151.5.
Green, William G. Oil well pump. 3,020,848, 2–13–62, Cl. 103—46.
Green, William G., ⅛ to Otis Engineering Corp. Pulling tool assembly for well equipment. 3,023,811, 3–6–62, Cl. 166—178.
Green, William G., to Aquatron Engineering Corp. Well head assembly for petroleum wells. 3,067,820, 12–11–62, Cl. 166—88.
Green, William G., and D. M. Moody, said Green, assor. to Aquatron Engineering Corp. Pipe line survey instrument. 3,064,127, 11–13–62. Cl. 250—83.3.
Green, William P. : *See*—
Gard, Charles D. 3,064,929.
Hattan, Mark. 3,039,507.
Green, William P., R. M., and H. M. Hoop toy. 3,066,438, 12–4–62, Cl. 46—52.
Greenawalt, Frederick A., to Ranco Inc. Reversing valves. 3,032,312, 5–1–62. Cl. 251—356.
Greenawalt, Frederick A., to Ranco Inc. Valve mechanism. 3,056,574, 10–2–62, Cl. 251—31.
Greenaway, John F., P. S. Hampson, D. Halton, and K. G. Marwing, to Automatic Telephone & Electric Co. Ltd. Metering arrangements for automatic telephone systems. 3,067,290, 12–4–62. Cl. 179—7.
Greenbank, James W., and R. S. Blough, to Traf-O-Teria System, Inc. Collection box. 3,036,758, 5–29–62, Cl. 232—44.
Greenbaum, Jerome A. Game device. 3,027,162, 3–27–62, Cl. 273—126.
Green Bay Box Co. : *See*—
Baum, Richard E., and Daniels. 3,056,245.
Greenberg, Arthur Z. Speed warning device for vehicle. 3,035,133, 5–15–62, Cl. 200—61.89.
Greenberg, Burleigh B., to Brier Mfg. Co. Zipper lock. 3,028,647, 4–10–62, Cl. 24—205.14.
Greenberg, Elmer H and W. B. Metal-plate-treating method and apparatus. 3,055,150, 9–25–62, Cl. 51—14.
Greenberg, Harold J. Universal ball and socket joint. 3,034,809, 5–15–62, Cl. 285—267.
Greenberg, Harry : *See*—
Greenberg, Raymond A., and Greenberg. 3,065,046.
Greenberg, Harry, to National Distillers and Chemical Corp. Recovery of hafnium values. 3,069,232, 12–18–62, Cl. 23—140.
Greenberg, Harry, and H. R. Lubowitz, to National Distillers and Chemical Corp. Purification method for metal halides. 3,053,620, 9–11–62, Cl. 23—87.
Greenberg, Harry, and S. P. Rowland, to National Distillers and Chemical Corp. Polyesterification process. 3,067,178, 12–4–62, Cl. 260—75.
Greenberg, Harry, and V. L. Hansley, to National Distillers and Chemical Corp. Polymerization of conjugated diolefins with an alfin catalyst and a dihydroaromatic molecular weight regulator. 3,067,187, 12–4–62, Cl. 260—94.2.
Greenberg, Richard A., to Swift & Co. Preservation of canned meats. 3,025,168, 3–13–62, Cl. 99—187.
Greenberg, Robert L., to National Equipment Corp. Article transferring apparatus. 3,033,387, 5–8–62, Cl. 214—1.
Greenberg, Samuel : *See*—
Feldman, Samuel S., and Greenberg. 3,069,168.
Greenberg, Walter H. : *See*—
McCoy, John H., and Greenberg. 3,038,551.
Greenberg, Charles H., to Riverside Plastics Corp. Vacuum post-curing of infusible plastic material. 3,029,473, 4–17–62. Cl. 18—48.
Greenberg, William B. : *See*—
Greenberg, Elmer H. and W. B. 3,055,150.
Greenberger, George M. Tightener for conveyer belts. 3,018,873, 1–30–62, Cl. 198—208.
Greenbie, Barrie B., to Portapavilion Structures, Ltd. Collapsible building structure. 3,017,893, 1–23–62, Cl. 135—7.1.
Greenblatt, Richard C., to Burroughs Corp. Circuitry for pulsation solenoids. 3,049,650, 8–14–62. Cl. 317—148.5.
Greenblatt, Sidney R., and R. A. Guthman, Jr., to Montag, Inc. Loose-leaf binder. 3,018,780, 1–30–62, Cl. 129—23.
Greenblum, Louis L. Teeth rotector. 3,058,462, 10–16–62, Cl. 128—136.
Greene, Charles E., and C. H. Pulley, to Irving Air Chute Co. Inc. Seat belt protector boots. 3,046,056, 7–24–62, Cl. 297—385.
Greene, Charles R., to Shell Oil Co. Polymerization of isoprene in aliphatic monoolefin solvent. 3,065,218, 11–20–62, Cl. 260—94.2.
Greene, Charles R., and J. M. Kunkel, Jr. II, to Shell Oil Co. Production of synthetic elastomers. 3,062,796, 11–6–62, Cl. 260—88.2.
Greene, David H., to Universal Detergents Inc. Synthetic detergents and surface-active agents. 3,042,623, 7–3–62, Cl. 252—137.
Greene, Ernest J., and W. V. Millman, to American Air Filter Co., Inc. Heat exchange unit. 3,063,682, 11–13–62, Cl. 257—148
Greene, Edgeworth : *See*—
Dock, Mortimer R., Chaloux, and Greene. 3,025,665.
Greene, George B. : *See*—
Bacon, Stanley H., Efstathiou, and Greene. 3,060,272.
Greene, Harold L. Bow tie holder. 3,019,910, 2–6–62, Cl. 211—87.
Greene, Harry R. : *See*—
Dashew, Stanley A., Sumida, Dobrowsky, and Greene. 3,056,347.
Greene, Haskell M. Perforation and cleaning of wells. 3,029,732, 4–17–62, Cl. 102—21.6.
Greene, Howard M., Jr., to Comapco, Inc. Radiant energy control system. 3,041,459, 6–26–62, Cl. 250—201.
Greene, James L. : *See*—
Eibl, William F., and Greene. 3,034,381.
Greene, John H. : *See*—
Kirkwood, George B., and Greene. 3,036,903.

Greene, John P., to Parachem Corp. Sheet material dispenser. 3,051,352, 8–28–62, Cl. 221—26.

Greene, Joseph L., to General Motors Corp. Method of coating aluminum with lead. 3,050,410, 8–21–62, Cl. 117—130.

Greene, Leonard M., to Safe Flight Instrument Corp. Airplane instruments. 3,043,540, 7–10–62, Cl. 244—77.

Greene, Malbone W.: *See*—
Thayer, Louis C., and Greene. 3,031,882.
Wilson, Ray I., Greene, and Haagen-Smit. 3,028,317.

Greene, Malbone W., and J. W. Haagen-Smit, to Beckman Instruments, Inc. Null type gas analyzer. 3,026,472, 3–20–62, Cl. 324—36.

Greene, Norman A. Toy. 3,032,921, 5–8–62, Cl. 46—118.

Greene, Norman A. Toy torpedo. 3,053,183, 9–11–62, Cl. 102—37.

Greene, Richard A. Industrial curtain hardware. 3,016,951, 1–16–62, Cl. 160—126.

Greene, Richard F., to The Superior Electric Co. Lighting unit. 3,064,121, 11–13–62, Cl. 240—2.

Greene, Robert A. Cigar box. 3,021,943, 2–20–62, Cl. 206—45.2.

Greene, Robert R., J. H. Harker, and H. A. Lockhart, to Bell & Gossett Co. Motor pump unit. 3,059,582, 10–23–62, Cl. 103—87.

Greene, Robert R., J. H. Harker, and H. A. Lockhart, to Bell & Gossett Co. Flexible coupler. 3,063,262, 11–13–62, Cl. 64—27.

Greene, Robert Z.: *See*—
Reynolds, Donald. 3,046,869.

Greene, Sanford. Game apparatus. 3,061,313, 10–30–62, Cl. 273—139.

Greene, Whitney E. Interrupted thread bolt and bushing with stop and radially sliding lock means. 3,023,797, 3–6–62, Cl. 151—24.

Greene, Whitney E. Wedge locked insert. 3,039,508, 6–19–62, Cl. 151—23.

Greene, Whitney E. Self-locking rotary transmission. 3,051,-282, 8–28–62, Cl. 192—8.

Greene, William J., to Air Reduction Co., Inc. Automatic seam follower. 3,017,496, 1–16–62, Cl. 219—124.

Greene, William J., to Air Reduction Co., Inc. Electron beam welding. 3,049,608, 8–14–62, Cl. 219—117.

Greenewald, Herbert, Jr. Composition and method of forming ceramic cores. 3,017,677, 1–23–62, Cl. 22—194.

Greenfield, Anthony F., 40% to S. Sollins. Closure fitting. 3,034,521, 5–15–62, Cl. 134—102.

Greenfield, Charles: *See*—
Carver, Robert W., and Greenfield. 3,035,921.

Green Giant Co.: *See*—
Eue, Ellsworth W. 3,065,082.

Greenhalf, William D. G., to General Precision Systems Ltd. Training devices. 3,035,354, 5–22–62, Cl. 35—10.2.

Greenhalgh, Harold. Furnaces. 3,028,153, 4–3–62, Cl. 263—6.

Greenlief, Norman, to Imperial Chemical Industries Ltd. Lungworm control composition and method of using same. 3,053,732, 9–11–62, Cl. 167—53.

Greenhalgh, Roger C., and D. E. Norton, to International Business Machines Corp. Tape reader control. 3,049,291, 8–14–62, Cl. 235—61.11.

Greenham, Charles G.: *See*—
Robinson, Bertram D. C., Kirby, and Greenham. 3,031,-291.

Greenhaus, Albert: *See*—
Knoll, David, and Greenhaus. 3,037,730.
Knoll, David, and Greenhaus. 3,051,816.

Greening, Donald J., and C. E. Smith, to Cutler-Hammer, Inc. Motor control systems. 3,021,466, 2–13–62, Cl. 318—327.

Greening, Donald J., N. L. Peterson, and C. E. Smith, to Cutler-Hammer, Inc. Motor control systems. 3,026,464, 3–20–62, Cl. 318—327.

Greening, Donald J., and C. E. Smith, to Cutler-Hammer, Inc. Transistor amplifier system for an inductive load with transistor protection means. 3,047,742, 7–31–62, Cl. 307—88.5.

Greening, John H., to Micromatic Hone Corp. Torque actuated control device for honing tools. 3,030,740, 4–24–62, Cl. 51—34.

Greening, John H., and R. C. Engle, to Micromatic Hone Corp. Bore gauging device. 3,059,381, 10–23–62, Cl. 51—34.

Greening, John P.: *See*—
Blocker, Wade, and Greening. 3,027,087.

Greening, John P., to Phillips Petroleum Co. Coherence measuring circuit. 3,032,743, 5–1–62, Cl. 340—15.

Greening, John P., to Phillips Petroleum Co. Gain control amplifier. 3,048,817, 8–7–62, Cl. 340—15.5.

Greening Nursery Co., The: *See*—
Romine, James W. 3,055,153.

Greenlaw, Lyle E., to Snappy, Inc. Conduit fitting having a radially swingable end locking portion. 3,052,490, 9–4–62, Cl. 285—189.

Greenleaf, Francis D., J. T. MacIsaac, Jr., and F. W. Brey, to Cutler-Hammer, Inc. Axminster loom-spool setting apparatus. 3,059,310, 10–23–62, Cl. 28—55.5.

Greenleaf, Leland B., to C. G. Conn, Ltd. Musical instrument valve mechanism. 3,030,846, 4–24–62, Cl. 84—388.

Greenleaf, Leland B., to C. G. Conn, Ltd. Piston guide key arrangement for brass instrument. 3,044,339, 7–17–62, Cl. 84—392.

Greenleaf, Nathaniel B. Mop having a universally adjustable handle. 3,016,556, 1–16–62, Cl. 15—229.

Greenleaf, Nathaniel B. Wringing apparatus. 3,030,648, 4–24–62, Cl. 15—119.

Greenleaf, Walter J. Rotary cutting tool. 3,055,186, 10–2–62, Cl. 29—105.

Greenlee Bros. & Co.: *See*—
Long, Louis E. 3,019,915.
Swanson, Edwin C. 3,018,818.
Swanson, Edwin C. 3,066,610.

Greenlee, Sylvan O., to Devoe & Raynolds Co., Inc. Epoxide resin compositions. 3,021,304, 2–13–62, Cl. 260—47.

Greenlee, Sylvan O. Curable epoxide composition containing polyhydric phenol and cured product thereof. 3,032,527, 5–1–62, Cl. 260—43.

Greenlee, Sylvan O., to S. C. Johnson & Son, Inc. N-substituted-4,4-bis-(4-hydroxyphenyl) pentanoic acid amides. 3,047,627, 7–31–62, Cl. 260—559.

Greenlee, Sylvan O. Resinous compositions. 3,057,614, 10–9–62, Cl. 260—23.7.

Greenlee, Sylvan O. Polyglycidyl ethers of hydroxyphenylated-phenyletherated polymers. 3,060,140, 10–23–62, Cl. 260—23.

Greenlee, Sylvan O. Modification of polyepoxide conversion systems with petroleum resin-phenol addition products. 3,069,373, 12–18–62, Cl. 260—28.

Greenlee, Sylvan O., and J. W. Pearce, to S. C. Johnson & Son, Inc. Epoxide conversion of unsaturated acids. 3,023,-178, 2–27–62, Cl. 260—22.

Greenlees, James C., to Fairchild Stratos Corp. Externally adjustable speed controller. 3,023,761, 3–6–62, Cl. 137—56.

Greenlie, David G.: *See*—
Ballou, Sidney R., and Greenlie. 3,067,987.

Greenly, Kenneth H., to D. Napier & Son Ltd. Starting systems for gas turbine engines. 3,020,716, 2–13–62, Cl. 60—39.14.

Greenman, Edwin G.: *See*—
Hechtman, John F., and Greenman. 3,019,134.
Hechtman, John F., and Greenman. 3,026,217.
Hechtman, John F., and Greenman. 3,026,241.
Hechtman, John F., and Greenman. 3,053,718.
Hechtman, John F., and Greenman. 3,066,043.

Greenman, Nathan. Hinge for swinging doors. 3,063,089, 11–13–62, Cl. 16—186.

Greenman, Orval L., and R. J. Stewart, to The Bulman Corp. Store fixture. 3,044,631, 7–17–62, Cl. 211—136.

Greeno, John R., and T. J. Dull. Automatic seam treating machine. 3,040,167, 6–19–62, Cl. 219—156.

Greeno, John R., and T. J. Dull. Automatic spring assembly machine. 3,045,714, 7–24–62, Cl. 140—92.94.

Greensboro Loom Reed Co., Inc.: *See*—
McFetters, George A. 3,049,151.

Greensburg Concrete Block C.: *See*—
Repasky, George S. and J. F. 3,044,637.

Greenspan, Edward B., and J. de Sola Mosely; said de Sola Mosely assor. to said Greenspan. Sphygmomanometer. 3,056,401, 10–2–62, Cl. 128—2.05.

Greenspan, Frank P., and A. E. Fepe, to FMC Corp. Epoxy-polybutadiene polymers. 3,030,336, 4–17–62, Cl. 260—47.

Greenspan, George M. Window display apparatus. 3,047,966, 8–7–62, Cl. 35—58.

Greenspan, Isaac. Weaving machine for wickerwork. 3,059,-668, 10–23–62, Cl. 139—28.

Greenspan, Lawrence: *See*—
Barney, Kay H., and Greenspan. 3,044,065.

Greenspan, Lawrence E.: *See*—
Leslie, Richard E., and Greenspan. 3,029,392.

Greenstadt, Eugene W.: *See*—
Azari, Eric, Wiener, and Greenstadt. 3,037,625.

Greenstreet, Jack D. Automatic steering for a trailer. 3,032,354, 5–1–62, Cl. 280—443.

Greenwald, Harry: *See*—
Budofsky, Seymour S. 3,052,329.

Greenwich, Harry, to International Associates. Coin operated device with percussion actuated timer. 3,053,946, 9–11–62, Cl. 200—35.

Greenwald, Harold A., to The Garrett Corp. Variable head compressor. 3,041,848, 7–3–62, Cl. 62—197.

Greenwald, Harold A., to The Garrett Corp. Variable head compressor. 3,042,291, 7–3–62, Cl. 230—114.

Greenwald, Harold A., to The Garrett Corp. Fluid cooled dynamoelectric machine. 3,060,335, 10–23–62, Cl. 310—54.

Greenwald, Samuel, to Candle Heat Appliance Corp. Food warming and cooking apparatus. 3,034,496, 5–15–62, Cl. 126—261.

Greenway Industries: *See*—
White, James M., Cardwell, Davisson, and Brooks. 3,023,800.

Greenwell, Richard H., to Hercules Powder Co. Purification of polyolefins. 3,030,055, 5–22–62, Cl. 260—93.7.

Greenwell, Richard H., to Hercules Powder Co. Polymerization of olefins. 3,058,973, 10–16–62, Cl. 260—94.9.

Greenwood, Allan N., to General Electric Co. Contact structure for a vacuum-type circuit interrupter. 3,036,180, 5–22–62, Cl. 200—144.

Greenwood, Charles A.: *See*—
Grandy, Andrew J., and Greenwood. 3,028,173.

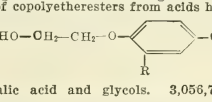
Greenwood, Donald L.: *See*—
Leffler, Dean E., and Greenwood. 3,028,173.

Greenwood, Henry B., and J. O. Danko, Jr., to Samuel M. Langston Co. Extended slotting mechanism. 3,031,937 5–1–62, Cl. 93—58.2.

Greenwood, Orville T.: *See*—
Brophy, Ralph D., and Greenwood. 3,058,257.

Greenwood, Orville W., to Aircraft Products Co. Directional gyroscope assembly for automatic pilots. 3,058,358, 10–16–62, Cl. 74—5.6.
Greenwood, Sydney H. J. : *See*—
Oswald, Alexis A., Rupar, and Greenwood. 3,043,824.
Greenwood, Thomas L. Shock register. 3,017,083, 1–16–62, Cl. 235—91.
Greenwood, Walter C. Carrier helmet. 3,028,059, 4–3–62, Cl. 224—5.
Greer, David R. : *See*—
Sieving, Alfred W., and Greer. 3,057,666.
Greer, Douglas R. Fish lures. 3,049,830, 8–21–62, Cl. 43—42.34.
Greer, Edita S. : *See*—
Carver, Harold R. 3,063,202.
Greer, Edward M., to Greer Hydraulics, Inc. Pressure vessel. 3,038,501, 6–12–62, Cl. 138—30.
Greer, Fred W., and D. H. Lounsbury, to J. W. Greer Co. Chocolate confection cooling. 3,027,728, 4–3–62, Cl. 62—63.
Greer Hydraulics, Inc. : *See*—
Greer, Edward M. 3,038,501.
Greer, J. W., Co. : *See*—
Genich, William H. 3,064,589.
Greer, Fred W., and Lounsbury. 3,027,728.
Hill, William, and Lounsbury. 3,045,640.
Norman, Daniel P., and Kinney. 3,061,446.
Gref, Hans : *See*—
Herzhoff, Peter, and Gref. 3,055,338.
Greffe, André, to Societe d'Electro-Chimie d'Electro-Metallurgie et des Acieries Electriques d'Ugine. Process for obtaining ingots with a small amount of pipe and of segregation. 3,024,508, 3–13–62, Cl. 22—216.
Greffe, Andre, M. Asselin, and F. Grandjacques, to Societe d'Electro-Chimie, d'Electro-Metallurgie et des Acieries Electriques d'Ugine. Process of producing manganese. 3,054,670, 9–18–62, Cl. 75—80.
Greger, Paul, to Voigtlander A.G. Photographic camera. 3,017,814, 1–23–62, Cl. 95—10.
Greger, Paul, G. Kinder, and R. Sommer, to Voigtlander A.G. Photographic camera having an electric exposure meter. 3,017,813, 1–23–62, Cl. 95—10.
Gregg, Arthur T. : *See*—
Carlson, Wilbur L., and Gregg. 3,039,798.
Gregg, Earl C., Jr. : *See*—
Hendry, Charles M., and Gregg. 3,070,599.
Gregg, John, to Litton Systems, Inc. Dry circuit switch. 3,068,335, 12–11–62, Cl. 200—166.
Gregg, John D. W. Road wheel attachments. 3,044,518, 7–17–62, Cl. 152—89.
Gregg, William, to The W. H. Fay Co. Train of trailers for carrying load extending between the trailers. 3,070,386, 12–25–62, Cl. 280—404.
Grego, Peter : *See*—
Dalton, Robert H., and Grego. 3,024,381.
Gregoire, Ferdinand, and R. Ricard, to Societe des Blancs de Zinc de la Mediterranee Eug. Chabaury, Pierre Gindre & Cie. Method for facilitating the extraction of aluminum from aluminum containing materials. 3,028,218, 4–3–62, Cl. 23—141.
Gregoire, Jean A. Suspension of vehicles. 3,066,929, 12–4–62, Cl. 267—31.
Gregoire, Resta S. Metering dispenser. 3,029,002, 4–10–62, Cl. 222—307.
Gregoire, Resta S., and E. L. Simm, to Future Products, Inc. Traffic marker. 3,040,636, 6–26–62, Cl. 94—1.5.
Gregoire, Stephen E. : *See*—
Twaddell, Russell W., and Gregoire. 3,020,449.
Gregor, Wilhelm, to Licentia Patent-Verwaltungs G.m.b.H. Displaceable fin for vehicles. 3,036,540, 5–29–62, Cl. 114—126.
Gregora, John, to Vincent Bros. Pty. Ltd. Sanding drums. 3,029,567, 4–17–62, Cl. 151—169.
Gregorczik, Edmund : *See*—
Meyer, Henry L., Wilhem, and Gregorczik. 3,022,584.
Wilhelm, Fred R., Gregorczik, and Meyer. 3,064,427.
Wilhelm, Fred R., Gregorczik, and Meyer. 3,064,681.
Gregorian, Raznic S. : *See*—
Bafford, Richard A., and Gregorian. 3,017,376.
Gregorig, Romano, to Escher Wyss Aktiengesellschaft. Heat exchanger. 3,035,818, 5–22–62, Cl. 257—235.
Gregorius, Joseph S., to Pittsburgh Plate Glass Co. Tiltable glass forming day tank. 3,037,323, 6–5–62, Cl. 49—3.
Gregory, Andrew H. : *See*—
Stephens, Roy M., Richbourg, and Gregory. 3,023,480.
Gregory, Benjamin F. Hydrotherapy apparatus. 3,043,296, 7–10–62, Cl. 128—66.
Gregory, Benjamin F. Wall mounted hydrotherapy apparatus. 3,065,746, 11–27–62, Cl. 128—66.
Gregory, Buck A. Peanut digging machine. 3,024,849, 3–13–62, Cl. 171—61.
Gregory, Donald R. and F. D. Line keeper for fishing rods. 3,067,537, 12–11–62, Cl. 43—25.2.
Gregory, Eric, to 134 Woodworth Corp. Method of introducing hard phases into metallic matrices. 3,026,200, 3–20–62, Cl. 75—224.
Gregory, Eric, and M. Epner, to 134 Woodworth Corp. Heat treatable tool steel of high carbide content. 3,053,706, 9–11–62, Cl. 148—31.
Gregory, Francis D. : *See*—
Gregory, Donald R. and F. D. 3,067,537.
Gregory, Gordon I. : *See*—
Evans, Ronald M., Elks, Hems, Arthur, Oughton, Gregory, Walker, and Hunt. 3,040,034.
Phillipps, Gordon H., Graham, Gregory, and Elks. 3,040,069.
Phillipps, Gordon H., Graham, Gregory, and Elks. 3,040,070.
Gregory, H. De Lancey : *See*—
Byrnes, John J. 3,029,976.
Gregory, Haskell I. Missile for hypodermic medication. 3,042,406, 7–3–62, Cl. 273—106.5.
Gregory Industries, Inc. : *See*—
Glorioso, Paul A. 3,064,119.
Polos, Constantine D. 3,049,358.
Gregory, James B., C. C. Moore, and H. D. Emerson, to Union Oil Co. of California. Air pollution abatement system. 3,048,157, 8–7–62, Cl. 123—136.
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Gregory, Ralph A. : *See*—
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Grenchus, Edward J.: *See*—
Saltz, Fred, and Grenchus. 3,018,722
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De Vienne, Robert A. and J. P., and Grenier. 3,027,166.
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Grenstad, Arvid, R. F. Hereth, L. R. Morris, and G. M. Sherman, to United States of America, Navy. Missile launcher front guide and latching mechanism therefor. 3,045,552, 7–24–62, Cl. 89—1.7.
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Hoffmann, Ernest, and Gresham. 3,067,755.
Gresham, James T., to Kimberly-Clark Corp. Cellulosic wiping material. 3,047,445, 7–31–62, Cl. 154—46.
Gresham, Joseph N. Down-draft water washed paint spray room. 3,035,507, 5–22–62, Cl. 98—115.
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Balthis, Joseph H., Jr., Gresham, and Merckling. 3,038,-863.
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Greska, Hans: *See*—
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Gress, George E.: *See*—
Miles, Roger H., and Gress. 3,024,689.
Gress-Miles Organ Co., Inc.: *See*—
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Gress, Thomas E.: *See*—
Bloch, Roy W., and Gress. 3,050,287.
Gretag Aktiengesellschaft: *See*—
Mandler, Walter. 3,043,190.
Mast, Fred. 3,041,395.
Mast, Fred, and Janssen. 3,016,417.
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Grever, Jerome L.: *See*—
Bick, John D., and Grever. 3,050,594.
Grew, John E.: *See*—
Aldred, Fred C., Grew, and Townsend. 3,069,784.
Grewe, Ferdinand: *See*—
Sasse, Klaus, Wegler, Unterstenhöfer, and Grewe. 3,029,-
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Grewing, Klaus: *See*—
Hoenick, Hans, and Grewing. 3,062,060.
Grey, David S.: *See*—
Land, Edwin H., and Grey. 3,056,342.
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Grey, David S., to Polaroid Corp. Photographic shutter mechanism. 3,056,341, 10–2–62, Cl. 95—59.
Gribbin, T. F.: *See*—
Hayward, Landes H. 3,020,960.
Gribble, Joseph J.: *See*—
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Goudy, Paul R., Gribble, and Marien. 3,024,337.
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Morin, Louis H., and Gries, 3,018,519.
Griese, Robert W., to American Can Co. Method of making cartons. 3,029,711, 4–17–62, Cl. 93—36.
Griesemer, Douglas: *See*—
Horne, Russel K., and Griesemer, 3,033,140.
Grieshaber, Emil: *See*—
Froehlich, Kurt, and Grieshaber, 3,059,626.
Grieshaber, Emil W.: *See*—
Kotz, Arthur R., Appeldorn, Grieshaber, Peterson, and Giorgini, 3,056,904.
Grieshaber, Herman R. Surgical retractor. 3,040,739, 6–26–62, Cl. 128—20.
Griesinger, William K.: *See*—
Wheeler, Edward S., Griesinger, and Ellis. 3,036,090.
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Mustakas, Gus C., Griffin, and Kirk. 3,023,107.
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Carlin, Kenneth G., and Griffin. 3,021,929.
Griffin, John D.: *See*—
Rubens, Louis C., Griffin, and Urchick. 3,067,147.
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Griffin, Phil H., III: *See*—
Nutter, Benjamin P., and Girffin. 3,036,641.
Griffin, Ray R: *See*—
Turner, Imus B., and Griffin. 3,025,549.
Griffin, Richard N.: *See*—
Gibbs, Hugh H., and Griffin. 3,041,317.
Griffin, Roger L., to Swift & Co. Removing leather from leather press. 3,040,554, 6–26–62, Cl. 69—48.
Griffin, Ross A.: *See*—
Griffin, Carl T. and R. A. 3,018,601.
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Griffin, Theodore R., to United-Carr Fastener Corp. Closure member. 3,018,535, 1–30–62, Cl. 24—213.
Griffin, Theron W. Wire fencing stringing and stretching implement. 3,048,348, 8–7–62, Cl. 242—86.5.
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Doll, Donald P., Griffin, and Libera. 3,053,625.
Griffin, Warren R., to United States of America, Air Force. Room temperature vulcanization of fluorinated hydrocarbon elastomers. 3,041,316, 6–26–62, Cl. 260—79.
Griffin Wellpoint Corp.: *See*—
Griffin, David H., and Werblin. 3,015,365.
Griffin Wheel Co.: *See*—
Strom, Charles F., and Wszolek. 3,015,863.
Griffin, Wilbur H.: *See*—
Hardy, John M., Taylor, and Griffin. 3,054,628.
Griffin, Wilfred. Ice cap container for picnic jug cooler. 3,059,452, 10–23–62, Cl. 62—457.
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Griffing, Neal R.: *See*—
Nelson, Edward C., and Griffing. 3,046,107.
Griffioen, Jan, to Optische Industrie De Dude Delft, N.V. Optical light-tight joint. 3,040,626, 6–26–62, Cl. 88—68.
Griffis, Jubie D.: *See*—
Broussard, John G., and Griffis. 3.016,073.
Griffis, Oba. Convertible automatic fishing reel. 3,059,872, 10–23–62, Cl. 242—84.2.
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Griffith, Bert P.: *See*—
Schmitz, William F., Griffith, and Long. 3 042,392.
Griffith, Clement P., and J. J. Delaney, to Bowser, Inc. Quick disconnect mounting for a submerge pump. 3,066,-837, 12–4–62, Cl. 222—385.
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Griffith Co., The: *See*—
Kettenring, Stanley J. 3,050,013.
Griffith, George L., and F. B. Wells, to Trojan Powder Co. Seismographic exploration. 3,059,575, 10–23–62, Cl. 102—22.
Griffith, George W. S., to The General Electric Co. Ltd. Radio relay system with automatic channel selection based upon signal strength. 3,035,169, 5–15–62, Cl. 250—15.
Griffith, James S., R. S. Olsen, and H. L. Rechter, to E. I. du Pont de Nemours and Co. Compositions and processes for making foamed alumina refractory products, and articles so produced. 3,041,190, 6–26–62, Cl. 106—40.
Griffith Laboratories, Inc., The: *See*—
Schnell, Carl. 3,019,067.
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Griffith, Llewellyn B. Spray device to eliminate foam. 3,056,-749, 10–2–62, Cl. 252—361.
Griffith, Louis E., to Riley Stoker Corp. Control of superheat. 3,066,657, 12–4–62, Cl. 122—479.
Griffith, Robert P. Device to align and locate blocks and cylinders using optical instruments. 3,057,250, 10–9–62, Cl. 88—2.2.
Griffiths, Albert: *See*—
Lindsay, Richard W., and Griffiths. 3,056,014.
Griffiths, Clyde C., and W. J. Saxomeyer, to Whiting Corp. Railroad rip track installation. 3,055,310, 9–25–62, Cl. 104—32.
Griffiths, Edward G., and N. S. Johnson, to Camloc Fastener Corp. Continuous seam fastener. 3,054,484, 9–18–62, Cl. 189—36.
Griffiths, Graham N.: *See*—
Meyer, Percy, and Griffiths. 3,027,319.
Griffiths, Herbert D., R. H. Higgins, and W. E. Studdiford, to Bell Telephone Laboratories, Inc. Test probe. 3,040,254, 6–19–62, Cl. 324—158.
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Griffiths, Lyman L. Closure remover device. 3,048,068, 8–7–62, Cl. 81—3.3.
Griffiths, Ronald E., and A. W. Harris, to United States Steel Corp. Silicon-containing aluminum coated welding electrode and method of producing the same. 3,029,506, 4–17–62, Cl. 29—528.
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Griffiths, Ronald E., and G. F. Wald, to United States Steel Corp. Wire-drawing block assembly. 3,055,491, 9–25–62, Cl. 205—29.
Griffiths, Rupert, ½ to Graviner Mfg. Co. Ltd., ½ to Wilkinson Sword Ltd. Temperature detectors. 3,045,326, 7–24–62, Cl. 29—155.5.
Griffiths, Rupert, and J. A. Radford, ½ to Wilkinson Sword Ltd., and ½ to H. B. Randolph, Hand tools. 3,057,063. 10–9–62, Cl. 30—266.
Griffiths, Sidney H.: *See*—
Lakin, Raymond W., and Griffiths. 3,027,039.
Griffiths, Theodore C. Driver indicator device. 3,041,882, 7–3–62 Cl. 73—492.
Griffitts, Henry V., to McCaffrey-Ruddock Tagline Corp. Means for facilitating replacement of springs in spring rewound tagline device. 3,062,479, 11–6–62, Cl. 242—107.5.

Griffitts, James J., and J. C. Hobbs, II, to Dade Reagents Inc. Lancet and method of forming. 3,060,937, 10–30–62, Cl. 128—314.

Griffitts, Samuel L. Multiple unit well seal. 3,057,408, 10–9–62, Cl. 166—202.

Griffolyn Co., Inc.: *See*—
Diehl, John M. 3,023,758.

Griffoul, Roger, and A. Schram, to Compagnie Generale de Radiologie. X-ray generator tubes. 3,037,142, 5–29–62, Cl. 313—330.

Grifo, Richard A., and R. L. Mayhew, to General Aniline & Film Corp. Low foaming detergent for automatic dishwashing machine. 3,022,250, 2–20–62, Cl. 252—135.

Griggs, Charles: *See*—
Speer, Paul, Griggs, and McAvoy. 3,046,286.

Griggs, James L.: *See*—
Haumann, Wilfried, and Griggs. 3,069,045.

Griggs, Virgil. Pry bar. 3,049,337, 8–14–62, Cl. 254—131.

Grigonis, Frank, to Camel Trailers Inc. Trailer. 3,032,218, 5–1–62, Cl. 214—505.

Grigsby Bros. Paper Box Manufacturers: *See*—
Charles, David H., Benjamin, Grigsby, and Busch. 3,069,-979.

Grigsby Co., Inc., The: *See*—
Eadie, Hugh S. 3,059,497.

Grigsby, John D., to Thompson Ramo Wooldridge Inc. Electric duty cycle control. 3,048,719, 8–7–62, Cl. 307—132.

Grigsby, John D., and J. R. Jeromson, Jr. Brake control system. 3,048,976, 8–14–62, Cl. 60—54.5.

Grigsby, John D., and J. R. Jeromson, Jr., to Thompson Ramo Wooldridge Inc. Brake system with electro-hydraulic unit. 3,048,979, 8–14–62, Cl. 60—54.6.

Grigsby, Walter D., Jr.: *See*—
Charles, David H., Benjamin, Grigsby, and Busch. 3,069,979.

Grillo, James A.: *See*—
Carroll, John J., and Grillo. 3,061,976.

Grillo, Salvatore J., and W. B. Walker, to United States of America, Navy. Rocket firing relay. 3,039,363, 6–19–62, Cl. 89—1.7.

Grillon, August B., B. J. Holland, S. V. Pope, and C. J. Steigleder, to Hughes Aircraft Co. Apparatus for handling fusible materials. 3,045,619, 7–24–62, Cl. 113—93.

Grim, Otto: *See*—
Waas, Heinrich, Ehlers, and Grim. 3,045,628.

Grimaila, Algert G., to Motorola, Inc. Periphery plot converter. 3,068,467, 12–11–62, Cl. 343—5.

Grimaldi, John A. Sandal. 3,052,045, 9–4–62, Cl. 36—2.5.

Grimes, David D., to United States of America, Navy. Wing vibration damper. 3,047,253, 7–31–62, Cl. 244—35.

Grimes, Gerald E. Device for inflating objects. 3,065,774, 11–27–62, Cl. 141—38.

Grimes, John J., Jr., and W. A. Lucht, to United States Steel Corp. Stranded wire structures. 3,035,403, 5–22–62, Cl. 57—145.

Grimes, Robert C. Web-towelling washing apparatus. 3,064,-458, 11–20–62, Cl. 68—22.

Grimes, Warren D., J. H. Shaffer, and G. M. Watson, to United States of America, Atomic Energy Commission. Preparation of refractory oxide crystals. 3,063,794, 11–13–62, Cl. 23—14.5

Grimes, William W., to The Standard Oil Co. Radial flow reactor. 3,051,561, 8–28–62, Cl. 23—288.

Grimh, Roger A.: *See*—
Mleczko, Alexander E., and Grimh. 3,035,856.

Grimland, Charles J.: *See*—
Grimland, Joseph F. and C. J. 3,036,198.

Grimland, Joseph F. and C. J.; said C. J. Grimland assor. to said J. F. Grimland. Electric welding system. 3,036,198, 5–22–62, Cl. 219—78.

Grimm, Eric, to U.S. Tool Co., Inc. Slide feed. 3,038,646, 6–12–62, Cl. 226—158.

Grimm, Eric, to U.S. Tool Co., Inc. Slide feed. 3,038,647, 6–12–62, Cl. 226—159.

Grimm, Jean: *See*—
Magnin, Georges, and Grimm. 3,034,190.

Grimme, Walter, and H. Schmitz, to Rheinpreussen Aktiengesellschaft für Bergbau und Chemie. Alkamine esters of amino salicylic acid. 3,029,274, 4–10–62, Cl. 260—472.

Grimmeiss, Hermann G., H. Koelmans, and I. B. Mank, to North American Philips Co., Inc. Gallium nitride phosphors. 3,027,329, 3–27–62, Cl. 252—301.4.

Grimmer, George G., and J. H. Bostock. Well tools. 3,051,-243, 8–28–62, Cl. 166—224.

Grimmer, George G., to Otis Engineering Corp. Anchoring devices for well tools. 3,057,407, 10–9–62, Cl. 166—125.

Grimminger, Hermann, and B. Hamprecht, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for improving the adhesiveness of polyolefins. 3,036,930, 5–29–62, Cl. 117—93.

Grimm-Jeannerat, Fritz. Watch for telephone sets with calling dial. 3,048,965, 8–14–62, Cl. 58—46.

Grimmond, Robert: *See*—
Wright, Esmond P. G., Ridler, and Grimmond. 3,048,827.

Grimone, Frank H., and E. J. Kohler, to Sylvania Electric Products Inc. Frame grid. 3,064,692, 11–20–62, Cl. 140—71.5.

Grimshaw, Charles, to General Electric Co. Thermally responsive switch. 3,017,478, 1–16–62, Cl. 200—138.

Grimshaw, Charles, to General Electric Co. Condition responsive electric switch mechanism. 3,065,323, 11–20–62, Cl. 200—140.

Grindle, Christopher. Pig parlor cleaner. 3,040,785, 6–26–62, Cl. 141—18.

Grieg, Paul A., Jr., to The Electric Storage Battery Co. Cushioning attachment for safety devices. 3,037,313, 6–5–62, Cl. 42—74.

Grinich, Victor H., to Fairchild Camera and Instrument Corp. Memory circuit. 3,034,106, 5–8–62, Cl. 340—173.

Grinnell Corp.: *See*—
Allen, Harry C. 3,044,555.
Auffrey, Albert J. 3,051,978.
Boteler, Henry W. 3,020,020.
Boteler, Henry W. 3,026,909.
Hanson, Eric P. 3,051,397.
Hanson, Eric P., Merdinyan, and Milligan. 3,064,739.
Miner, George L. 3,027,906.
Sherburne, Philip C. 3,031,160.
Sherburne, Philip C. 3,049,325.
Sherburne, Philip C. 3,065,006.
Thielsch, Helmut J. 3,033,145.

Grinstead, Carl E. Counter. 3,064,893, 11–20–62, Cl. 235—132.

Grinstead, Robert R.: *See*—
Magner, James E., Long, Ellis, and Grinstead. 3,030,175.

Grinstead, Robert R., to United States of America, Atomic Energy Commission. Process for producing alkyl orthophosphoric acid extractants. 3,018,253, 1–23–62, Cl. 252—364.

Grinstead, Robert R., to The Dow Chemical Co. Oxidation of olefins by thallium (III). 3,048,636, 8–7–62, Cl. 260—586.

Grint, Frederick L.: *See*—
Davies, David O., and Grint. 3,041,834.
Morley, Frederick W. W., Davies, and Grint. 3,024,624.

Griot, Rudolf: *See*—
Renz, Jany, Bourquin, Griot, Ruesch, and Schwarb. 3,055,903.
Renz, Jany, Bourquin, Griot, Schwarb, and Ruesch. 3,055,888.

Grip, Erik K., to Aktiebolag Atvidaberg-Facit. Clearing mechanism for calculating machines. 3,062,444, 11–6–62, Cl. 235—144.

Grip, Nils O.: *See*—
Abbott, Gail C. 3,029,856.

Gris, Conrad D., to Mansaver Industries, Inc. Motor actuated rotary crane hook. 3,046,046, 7–24–62, Cl. 294—82.

Grisbrook, Robert B., to Tecumseh Products Co. Internal combustion engine. 3,040,725, 6–26–62, Cl. 123—182.

Griscom-Russell Co., The: *See*—
Lawrance, Harold R. 3,020,024.
Vaaler, Luther E. 3,017,696.

Grise, Frederick G. J., to L. Grise, Jr. Control apparatus for power-operated cables. 3,043,566, 7–10–62, Cl. 254—174.

Grise, Lionel, Jr.: *See*—
Grise, Frederick G. J. 3,043,566.

Grisel, Yvan V., to Ejectoret S.A., and Pako, Etablissement. Lipstick case. 3,032,180, 5–1–62, Cl. 206—56.

Grisell, Lloyd P.: *See*—
Chin, David D., and Grisell. 3,042,893.

Griser, Lawrence P.: *See*—
Ochin, Zell, and Griser. 3,020,013.

Grisewood, Edgar N.: *See*—
Bernstein, Isidor M., Grisewood, Van Valkenburgh, and Neville. 3,055,117.

Grishkin, William. Line guide tip. 3,060,618, 10–30–62, Cl. 43—24.

Grishman, Simon, to William Gluckin & Co., Inc. Girdle with relatively movable hip and thigh panels. 3,029,822, 4–17–62, Cl. 128—521.

Grishman, Simon, to William Gluckin & Co., Inc. Girdle with dual body wall united by front and rear panels. 3,043,313, 7–10–62, Cl. 128—547.

Grisley, Daniel W., Jr., to Monsanto Chemical Co. Mono salts of O-hydrocarbyl-carboalkylthiol phosphonic acids. 3,033,891, 5–8–62, Cl. 260—461.

Grissom, Everett D. Reversible ratchet wrench. 3,019,687 2–6–62, Cl. 81—61.

Grissom, Robert F., and W. A. Saums, to Masonite Corp. Process of treating hardboard surfaces. 3,056,718, 10–2–62, Cl. 162—179.

Griswold, Augustus W.: *See*—
Rutkus, John, Jr., Shepardson, and Griswold. 3,062,-095.
Shepardson, Donald W., Rutkus, and Griswold. 3,062,-110.
Woodward, Bernard, Jr. 3,070,210.

Griswold, David E., to D. G. Griswold. Apparatus for the preparation, maintenance and feeding of slurries. 3,064,-816, 11–20–62, Cl. 210—104.

Griswold, Donald G.: *See*—
Griswold David E. 3,064,816.

Griswold, Donald G. Hydrant valve. 3,034,544, 5–15–62, Cl. 141—346.

Griswold, Earle A., and A. W. Lewing, to Tampax Inc. Catamenial tampon. 3,038,214, 6–12–62, Cl. 19—144.5.

Griswold, Earle A., and J. R. McLaughlin, to Tampax Inc. Catamenial tampon. 3,058,468, 10–16–62, Cl. 128—285.

Griswold, Edgar F., Jr.: *See*—
Lyles, George D., Griswold, and Gentle. 3,060,461.

Griswold, Hector W., to Chicopee Mfg. Corp. Apparatus and method for making nonwoven fabric. 3,025,585, 3–20–62, Cl. 28—1.

Griswold, Neal J.: *See*—
Apodaca, Albert R., and Griswold. 3,054,351.
Fowler, Blair B., Young, and Griswold. 3,034,568.
Griswold, Owen H. Vacuum pump. 3,019,964, 2–6–62, Cl. 230—148.
Griswold, Roger W., II. Blunt-tailed jet airfoil. 3,016,213, 1–9–62, Cl. 244—42.
Griswold, Roger W., II. Inherent spiral stability system. 3,027,119, 3–27–62, Cl. 244—76.
Griswold, Roger W., II. Aerodynamic autopilot. 3,027,121, 3–27–62, Cl. 244—78.
Griswold, Roger W. II. Supersonic airfoil with boundary layer control. 3,063,658, 11–13–62, Cl. 244—42.
Griswold, Stanley M., to B.B. Chemical Co. Flocked solvent activatable stiffener sheet material. 3,021,240, 2–13–62, Cl. 154—46.
Griswold, Stanley M., to B. B. Chemical Co. Flocked solvent activatable stiffening and shoe lining materials. 3,022,188, 2–20–62, Cl. 117—25.
Griswold, Stanley M., to B. B. Chemical Co. Methods of shoe and stiffening employing solvent activatable stiffener ply with anti-stain solvent activating solution. 3,029,450, 4–17–62, Cl. 12—146.
Gritzner-Kayser Aktiengesellschaft: *See*—
Armbruster, Max, 3,031,988.
Höll, Karl, Meier, and Welte. 3 070,050.
Schlosser, Erwin, and Meier. 3,066,627.
Groak, Josef, to L. Farrer-Brown. Reducing cameras. 3,059,530, 10–23–62, Cl. 88—24.
Grob & Co. A.G.: *See*—
Graf, Martin. 3,016,925.
Wagner, Otto. 3,016,924.
Grob, Cyril, to Ciba Corp. Unsaturated aliphatic aminodiols and process for their manufacture. 3,060,196, 10–23–62, Cl. 260—340.7.
Grobecker, Hugo H., to Cleaver-Brooks Co. Tube beading apparatus. 3,018,819, 1–30–62, Cl. 153—81.
Grobey, Paul A., J. W. Lovely, and C. V. Thayer, to Bryant Chucking Grinder Co. Grinding apparatus. 3,023,552, 3–6–62, Cl. 51—236.
Grobman, William: *See*—
Moser, Henry W., Grobman, and Eskilson. 3,041.968.
Grobowski, Ben T., to The E. T. Rugg Co. Reel type lawn mower with height of cut adjustment. 3,044,240, 7–17–62, Cl. 56—254.
Groce, Homer W., to Cocker Machine & Foundry Co. Seal for a rotating shaft. 3,030,118, 4–17–62, Cl. 277—4.
Groce, Irwin J., to National Distillers and Chemical Corp. Process for recovery as zirconium oxysulfate zirconium values from salt baths. 3,057,682, 10–9–62, Cl. 23—114.
Groene, Heinz, and C. Süling, to Bayer Aktiengesellschaft. Farbenfabriken. Process for the production of polymers containing disulphonimide groupings. 3,052,656, 9–4–62, Cl. 260—78.5.
Groenendyke, Goethe M., to Socony Mobil Oil Co., Inc. Electronic triode bridge multiplier. 3,021,074, 2–13–62, Cl. 235—194.
Groenweghe, Leo C. D., to Monsanto Chemical Co. Chemical process. 3,024,278, 3–6–62, Cl. 260—543.
Groesbeck, William A., to United States of America, Navy. Manifolded cone pressure probe. 3,029,639, 4–17–62, Cl. 73—212.
Groff, Emory L., to Poor & Co. Rail joint. 3,027,092, 3–27–62, Cl. 238—244.
Groff, Jerome J.: *See*—
Weideman, Bernard A., and Groff. 3,041.687.
Grogan, Charles H., and C. F. Geschickter, to The Geschickter Fund for Medical Research. Therapeutic salts. 3,069,423, 12–18–62, Cl. 260—286.
Grogan, Charles H., and L. M. Rice, to The Geschickter Fund for Medical Research. Thiodisalicylate salt. 3,069,424, 12–18–62, Cl. 260—286.
Grogan, William D. Apparatus for separating boards or strips. 3,045,726, 7–24–62, Cl. 143—157.
Grogel, Merrill A., to Reynolds Metals Co. Curved divider tray. 3,051,346, 8–28–62, Cl. 220—23.8.
Grogg, Benjamin: *See*—
Graham, William R., Jr., and Grogg. 3,054,677.
Grogoza, William, to American Machine & Foundry Co. Bowling alley masking units. 3,018,105, 1–23–62, Cl. 273—54.
Groh, Edward F.: *See*—
Bevilacqua, Frank, Uecker, and Groh. 3,018,240.
Grohe, Friedrich: *See*—
Weller, Kurt. 3,026,898.
Grohe, Friedrich, Armaturenfabrik: *See*—
Bayer, Friedrich. 3,044,707.
Grohmann, August, and H. Prött, to Hydraulik G.m.b.H. Extrusion press and control therefor. 3,043,425, 7–10–62, Cl. 207—9
Grolitzer, Arthur J.: *See*—
Metzner, Robert G., and Grolitzer. 3,045,065.
Groll, Alvin F. Feed control means. 3,022,812, 2–27–62, Cl. 153—88.
Groll, Harry. Bookmark. 3,036,547, 5–29–62, Cl. 116—119.
Groll, Horst P., and K. P. Lange, to Telefunken G.m.b.H. Cathode ray tube system. 3,030,443, 4–17–62, Cl. 178—6.8.
Groll, Manfred: *See*—
Bienert, Berthold Breig, Groll, and Gutjahr. 3,047,582.
Groll, Robert C. Oil burner. 3,060,999, 10–30–62, Cl. 158—91.
Groll, Thomas F., Jr., and E. S. Stevens, to Nopco Chemical Co. Apparatus and method for determining effectiveness of defoamers in foamy systems. 3,027,755, 4–3–62, Cl. 73—53.
Gromme, Carl F. Low pressure fuel distribution system. 3,065,699, 11–27–62, Cl. 103—2.
Gronau, Hans, to Victoria Machine Tool Co. Ltd. Apparatus for controlling the movement of a reciprocatory driven element. 3,022,677, 2–27–62, Cl. 74—472.
Gronberg, Anton B. Rotary cutter having a vertically upward intake. 3,027,925, 4–3–62, Cl. 146—107.
Gronbeck, John L. Body assist for toilet seat. 3,047,884, 8–7–62, Cl. 4—254.
Gronemeier, Howard J., to Raytheon Co. Color television matrix systems. 3,018,323, 1–23–62, Cl. 178—5.4.
Gronemeyer, Erich, to Container Corp. of America. Container closure. 3,029,003, 4–10–62, Cl. 222—545.
Gronemeyer, Erich, to Container Corp. of America. Spout with frangible diaphragm for caulking cartridge. 3,029,-987, 4–17–62, Cl. 222—541.
Gronemeyer, Erich. to Container Corp. of America. Hat holder. 3,036,698, 5–29–62, Cl. 206—8.
Gronemeyer, Fred C.: *See*—
Johns, Floyd L., Gronemeyer, and Dusbabek. 3,052,615.
Gronemeyer, George E., to Mirror Insulation Co., Inc. Thermal insulation. 3,028,278, 4–3–62, Cl. 154—45.
Gronkowski, George. Swimming aid device. 3,015,829, 1–9–62, Cl. 9—307.
Groos, Ernst H. Puller tool. 3,041,713, 7–3–62, Cl. 29—256.
Gronn, Karl. Cartridge cases. 3,034,433, 5–15–62, Cl. 102—43.
Grontkowski, Raymond B., to Signal-Stat Corp. Variable intensity automotive vehicle lighting and signalling system. 3,007,019–22, Cl. 315—77.
Grontkowski, Raymond B., to Signal-Stat Corp. Magnetomotive and thermomotive flasher. 3,041,424, 6–26–62, Cl. 200—113.
Gronvik, Uno. Grease gun. 3,033,424, 5–8–62, Cl. 222—256.
Gronvold, George L. Automobile handling and storage apparatus. 3,033,390, 5–8–62, Cl. 214—16.1.
Groo, Arthur L.: *See*—
Dwinell, Richard C., and Groo. 3,064.374.
Groo, Arthur L., to Welmaid Products Inc. Clothes drying rack. 3,018,899, 1–30–62, Cl. 211—123.
Groom, Donald W., and H. W. Hartog, to International Groom Co., G.m.b.H. Method of, and compositions for use in, cleansing the interior surfaces of tanks and the like. 3,025,190, 3–13–62, Cl. 134—10.
Groothuis, Stanley E.: *See*—
Manning, Frank W., Groothuis, Lykins, Mahoney, and Papke. 3,038,997.
Groov-Pin Corp.: *See*—
Braendel, Felix W., and Bosse. 3,015,117.
Groppe, Ocee K.: *See*—
Johnson, James V., Jr., Groppe, Hibbitts, and Phillips. 3,019,511.
Groppe, Ocee K., to American Machine & Foundry Co. Cigarette rejector. 3,034,645, 5–15–62, Cl. 209—111.5.
Groppini, Diego, to Dalmine S.p.A. Device for drawing or rolling, especially for the production of frusto-conically shaped bodies and the like. 3,044,331, 7–17–62, Cl. 80—59.
Gros, Charles, to Etablissements Neyrpic. Turbine unit for turbodrills and turbocorers. 3,018,997, 1–30–62, Cl. 253—3.
Gros, Charles, to Neyrpic, Etablissements. Drilling tools for turbine drills. 3,047,344, 7–31–62, Cl. 308—8.2.
Gros, Hermann, to Maybach-Motorenbau G.m.b.H. Safety friction clutch. 3,064,455, 11–20–62, Cl. 64—30.
Grosbaum, Eugene, and R. L. Worthington, to The Bendix Corp. Direct current modulator. 3,047,790, 7–31–62, Cl. 321—45
Grosch, Gottlieb W. Irrigation gate valve. 3,033,514, 5–8–62, Cl. 251—145.
Grosclaude, René, to Laboratoires Vifor S.A. Manufacturing process of a container made of plastic material and installation for carrying out said process. 3,016,669, 1–16–62, Cl. 53—191.
Grosco, Inc.: *See*—
Grossnickle, Alex. 3,063,678.
Grose, Ansel B. Device for dispensing frozen fluffy cream and the like. 3,062,021, 11–6–62, Cl. 62—342.
Grose, Basil H., and S. L. Hurst, to Westinghouse Brake and Signal Co., Ltd. Remote control systems. 3,035,248, 5–15–62, Cl. 340—163.
Grose, Martin L. Method and means for handling articles to be dispensed from a bulk supply. 3,045,400, 7–24–62, Cl. 53—37.
Grosfillex Freres, Societe a responsabilite limitee dite: *See*—
Grosfillex, Raymond. 3,061,374.
Grosfillex, Raymond, to Grosfillex Freres, Societe a responsabilite limitee dite. Collapsible seat. 3,061,374, 10–30–62, Cl. 297—440.
Grosjean, Kurt, to Landis & Gyr, A.G. Heat exchanger valve. 3,019.985, 2–6–62, Cl. 236—1.
Grosnickle, Henry, Jr., and W. C. Arnold, to The National Cash Register Co. Record member feed control means. 3,031,188, 4–24–62, Cl. 271—62.
Gross, Albert H., to H. K. Porter Co., Inc. Adjustable cable way connector. 3,053,358, 9–11–62, Cl. 189—36.

Gross, Carl. Trimming device of edge trimming apparatus. 3,065,658, 11–27–62, Cl. 83—673.

Gross, Charles P., to Joint Filling Equipment Co. Joint filling machine. 3,020,812, 2–13–62, Cl. 94—39.

Gross, Charles P. Joint cleaning and filling machine. 3,020,-813, 2–13–62, Cl. 94—39.

Gross, Emanuel H.: *See*—
Luoma, Eino J., and Gross. 3,025,463.

Gross, Erich: *See*—
Holstein, Otto H. A., and Gross. 3,048,656.

Gross, Frank C. Box forming apparatus. 3,068,760, 12–18–62, Cl. 93—49.

Gross, Gustav-Adolf, to Ciba Ltd. Process and apparatus for the oxidation of anthracene to anthraquinone. 3,062,-842, 11–6–62, Cl. 260—385.

Gross, Hans-Werner: *See*—
Herbert, Wilhelm, Gross, and Dorschner. 3,069,249.
Weittenhiller, Hellmuth, Bieger, Schoß, Herbert, Dorschner, and Gross. 3,069,250.

Gross, Howard H., and W. Kierstead, Jr., to Texaco Development Corp. Apparatus for effecting fluid-fluid contact. 3,015,545, 1–2–62, Cl. 23—270.5.

Gross, James A., to Chemical Construction Corp. Phosphoric acid process. 3,057,700, 10–9–62, Cl. 23—283.

Gross, Jules. Heavy duty tire repair machine. 3,038,203, 6–12–62, Cl. 18—18.

Gross, Malcolm E., to The B. F. Goodrich Co. Improved phenolic resin/synthetic elastomer adhesive for structural metallic members. 3,066,060, 11–27–62, Cl. 154—43.

Gross, Maria T. H. Appliances for cleaning silver and silver-plated articles. 3,035,997, 5–22–62, Cl. 204—248.

Gross, Maurice J., to Barnes Drill Co. Hone and abrasive element therefor. 3,016,660, 1–16–62, Cl. 51—184.3.

Gross, Otto, and H. Berger, to Bergwerksgesellschaft Hibernia Aktiengesellschaft. Apparatus for producing hydrogen cyanide. 3,033,658, 5–8–62, Cl. 23—288.

Gross, Reinhold J. Rocket probe device. 3,015,463, 1–2–62, Cl. 244—147.

Gross, Robert, and L. Jacobson. Reinforced and ornamental spectacle hinge connections. 3,052,159, 9–4–62, Cl. 88—41.

Gross, Stanley B. Force cup. 3,021,532, 2–20–62, Cl. 4—255.

Gross, Thomas A. O. Pneumatic load bearing devices. 3,047,-040, 7–31–62, Cl. 152—330.

Gross, Thomas A. O. Semi-isothermal pneumatic support. 3,047,285, 7–31–62, Cl. 267—65.

Gross, Wilbur S. Collar construction for shirts. 3,038,165, 6–12–62, Cl. 2—141.

Gross, William L., to Colgate-Palmolive Co. Machine for combing edges of steel wool strips and process. 3,024,069, 3–6–62, Cl. 300—21.

Grosse, Kenneth E.: *See*—
Batina, Jerome R., and Grosse. 3,028,561.

Grossenheider, Howard, to Zenith Radio Corp. Ultrasonic transmitter. 3,017,849, 1–23–62, Cl. 116—137.

Grossenheider, Howard C.: *See*—
Wandrey, Clarence W., and Grossenheider. 3,047,787.

Grosser, Edward M. Globe. 3,037,390, 6–5–62, Cl. 35—46.

Grosser, John H. Solenoid operated dispenser for pressure sensitive adhesive tapes. 3,065,889, 11–27–62, Cl. 225—8.

Grossimon, Herbert P.: *See*—
Moore, Gerald T., Herzberg, and Grossimon. 3,063,015.
Morin, John O., McDonough, and Grossimon. 3,020,460.

Grosskopf, Carl to Otto H. Drager. Tube for detecting impurities in air. 3,033,655, 5–8–62, Cl. 23—254.

Grosskopf, Karl: *See*—
Stampe, Gerhard, Mollering, and Grosskopf. 3,026,711.

Grosskopf, Karl, to Dragerwerks, Heinr. & Bernh. Small testing tubes having three or more separately arranged reagents or reagent layers. 3,022,141, 2–20–62, Cl. 23—254.

Grossman, George J., Jr.: *See*—
Stelzer, Roland B., Grossman, and Heath. 3,063,150.

Grossman, George J., Jr., to Texaco Inc. Well casing. 3,057,409, 10–9–62, Cl. 166—242.

Grossman, Irving, to Diapulse Mfg. Corp. of America. Circumcision clamp. 3,050,065, 8–21–62, Cl. 128—346.

Grossman, Jerome H., to Penobscot Shoe Co. Light-weight shoe construction. 3,036,390, 5–29–62, Cl. 36—19.5.

Grossman, Jerome H., to Penobscot Shoe Co. Easily lasted moccasin construction. 3,050,876, 8–28–62, Cl. 36—11.

Grossman, Joel M.: *See*—
Wooten, Willis C., Jr., and Grossman. 3,063,963.

Grossman, Morris: *See*—
Tandler, William S., Grossman, and Sloan. 3,023,506.

Grossman, Paul, and P. Rhyner, to Ciba Ltd. Water-soluble salts of anthraquinone dyestuffs. 3,036,078, 5–22–62, Cl. 260—272.

Grossman, Richard F.: *See*—
Bluestein, Allen C., and Grossman. 3,036,982.

Grossman, Robert: *See*—
Stavis, Gus, and Grossman. 3,044,003.

Grossmann, Elihu D., and R. E. Myers. Process of treating polyolefin-coated paper. 3,051,609, 8–28–62, Cl. 162—5.

Grossmann, Elihu D., and R. E. Myers. Process of treating polyolefin-coated paper. 3,051,610, 8–28–62, Cl. 162—5.

Grossmann, Paul, to Ciba Ltd. Anthraquinone dyestuffs. 3,040,064, 6–19–62, Cl. 260—380.

Grossmann, Paul, to Materiel Industriel S.A., and Constructions Mecaniques S.A. Renens. Vehicles for the testing of railway tracks. 3,038,332, 6–12–62, Cl. 73—146.

Grossmann, Samuel W., to Allied Chemical Corp. Production of nitrogen tetroxide. 3,070,425, 12–25–62, Cl. 23—157.

Grossnickle, Alex, to Grosco, Inc. Wire stretcher. 3,063,678, 11–13–62, Cl. 254—80.

Grossteinbeck, Rolf, and H. Holtz, to Velasques Nederland N.V. Method of producing tobacco-containing foils. 3,025,860, 3–20–62, Cl. 131—140.

Grosswiller, Leo J.: *See*—
Graber, Carl D., Kenny, and Grosswiller. 3,059,840.

Grostick, Norman L., to The Bin-Dicator Co. Bin level indicator. 3,018,343, 1–23–62, Cl. 200—61.21.

Grostick, Norman L., to The Bin-Dicator Co. Motion indicator. 3,042,767, 7–3–62, Cl. 200—81.

Grosvenor, Alvah W.: *See*—
Samuel, George A., Bell, Grosvenor, and Jackson. 3,021,231.

Groszek, Aleksander: *See*—
Pethrick, Samuel R., and Groszek. 3,062,742.

Groszos, Stephen J.: *See*—
Staffej, Stanley F., and Groszos. 3,032,525.

Groszos, Stephen J., to American Cyanamid Co. Composition comprising a vinylidene polymer and a compound containing boron oxygen and silicon in a ring structure. 3,029,-210, 4–10–62, Cl. 260—29.1.

Groszos, Stephen J., to American Cyanamid Co. Composition comprising a vinylidene polymer and a compound containing boron, oxygen and silicon. 3,029,211, 4–10–62, Cl. 260—29.1.

Groszos, Stephen J., and C. S. Scanley, to American Cyanamid Co. Gasoline containing dialkanolamine boronic acid bisesters. 3,021,206, 2–13–62, Cl. 44—75.

Grote, Hugo, to Demag-Zug G.m.b.H. Axially displaceable coupling, brake and like friction means. 3,034,625, 5–15–62, Cl. 192—107.

Grote, Warren B., to The Goodyear Tire & Rubber Co. Tire with sidewall inserts. 3,050,098, 8–21–62, Cl. 152—354.

Groth, Albert C. Child's coaster wagon. 3,035,849, 5–22–62, Cl. 280—87.01.

Groth, Otto L., S. H. Carlson, and K. A. I. Carlsson, ½ to J. E. W. Svensson. Cover structures for wagons, trucks or the like. 3,017,215, 1–16–62, Cl. 296—106.

Grotefeld, Eberhard: *See*—
Gerstmeier, Bernhard, Gradenwitz, and Grotkopp. 3,068,-625.

Grotnes Machine Works, Inc.: *See*—
Ragettli, Christian. 3,015,291.
Van Leer, Oscar J., and Ragettli. 3,051,112.

Grotta, Henry M.: *See*—
Bearse, Arthur E., Hillenbrand, and Grotta. 3,041,349.

Grotto, La Von P.: *See*—
Benjamin, Homer H., and Grotto. 3,026,138.

Grotz, Anthony N., to Carling Electric, Inc. Single pole progressive switch. 3,022,394, 2–20–62, Cl. 200—68.

Grotz, Charles A., W. A. Reinhart, and K. V. Swanke, to Boeing Airplane Co. Retractable noise suppressor for jet engines. 3,055,174, 9–25–62, Cl. 60—35.6.

Grotz, Leonard C., to Union Carbide Corp. Suspending agents for vinyl polymerization. 3,055,876, 9–25–62, Cl. 260—87.1.

Grötzschel, Rudolf: *See*—
Leuschke, Siegfried, and Grötzschel. 3,027,800.

Groudan, Alan, W. M. Wirfel, H. E. Lustig, and R. Dessauer, to Sperry Rand Corp., Ford Instrument Co. Division. Automatic switching circuit. 3,040,259, 6–19–62, Cl. 328—110.

Groupe, Vincent, L. H. Pugh, and A. S. Levine, to Carter Products, Inc. Xerosin and process of preparation thereof. 3,039,923, 6–9–62, Cl. 167—65.

Grove, Alexander C., to General Precision, Inc. Holder. 3,051,123, 8–28–62, Cl. 116—114.

Grove, Earl L., to Wood, Gar Industries, Inc. Water-cooled cable. 3,065,290, 11–20–62, Cl. 174—15.

Grove, George L.: *See*—
Dall, Albert H., and Grove. 3,046,704.
Dall, Albert H., and Grove. 3,060,647.

Grove, George L., to The Cincinnati Milling Machine Co. Regulating wheel spindle mounting and drive for a centerless grinding machine. 3,406,703, 7–31–62, Cl. 51—103.

Grove, George L., and J. Decker, to The Cincinnati Milling Machine Co. Cooling device for machine tool member. 3,049,710, 7–31–62, Cl. 51—266.

Grove, James E., to The Hamilton Tool Co. Portable, elevatable work handling and locating table. 3,067,893, 12–11–62, Cl. 214—514.

Grove Laboratories Inc.: *See*—
Green, Daniel M., Kobnle, and Elliott. 3,051,621.

Grove, Marvin H., to Grove Valve and Regulator Co. Valve construction. 3,044,741, 7–17–62, Cl. 251—54.

Grove, Marvin H. Valve construction having provisions for valve seat access. 3,068,887, 12–18–62, Cl. 137—329.01.

Grove, Marvin H. Completion valve. 3,068,895, 12–18–62, Cl. 137—594.

Grove, Marvin H. Well valve construction. 3,068,896, 12–18–62, Cl. 137—594.

Grove, Marvin H. Completion valve and hanger assembly. 3,068,940, 12–18–62, Cl. 166—97.

Grove, Marvin H. Butterfly valve seal construction. 3,069,-128, 12–18–62, Cl. 251—173.

Grove, Marvin H. Valve construction having fluid pressure and spring bias seals. 3,069,129, 12–18–62, Cl. 251—175.

Grove, Marvin H. Plug valve. 3,069,130, 12–18–62, Cl. 251—283.

Grove, Marvin H. Valve construction. 3,069,131, 12–18–62, Cl. 251—327.
Grove, Marvin H. Valve construction. 3,069,132, 12–18–62, Cl. 251—329.
Grove Research and Development Co., The: *See—* Toennies. Owe M. 3,063,383.
Grove, Richard C.: *See—* Mayer, Joseph S. 3,038,256.
Grove Silk Co.: *See—* Stuewer, Reinhold F. 3,041,816.
Grove Valve and Regulator Co.: *See—* Brumm, Richard S. 3,068,883. Bryant, Austin U. 3,026,084. Grove, Marvin H. 3,044,741.
Grover, Anson R.: *See—* Spence, Sydney P., Grover, Klosek, and Nicolson. 3,069,434.
Grover, BEllen S.: *See—* Grover, Philip D. and B. S. 3,057,982.
Grover, Donald P., to United States of America, Army. Rotary piston charger-brake mechanism. 3,017,807, 1–23–62, Cl. 89—12.
Grover, George A., to Electro-Voice, Inc. Phonograph pickup. 3,056,861, 10–2–62, Cl. 179—100.41.
Grover, Philip D. and B. S., to Grover Products Corp. Electric snap switch. 3,057,982, 10–9–62, Cl. 200—138.
Grover Products Corp.: *See—* Grover, Philip D. and B. S. 3,057,982.
Grover, Shamsher S.: *See—* Grubb, George C., Walk, and Grover. 3,023,843.
Grover, Shamsher S., G. C. Grubb, and W. W. Walk, to The M. W. Kellogg Co. Acetylene purification. 3,023,842, 3–6–62, Cl. 183—115.
Grover Smith Mfg. Corp.: *See—* Meeker, William M. 3,019,773.
Grover, William E., and W. H. Phillips. Cable operated dump body. 3,024,931, 3–13–62, Cl. 214—517.
Groves, Harold W. Method of making a prestressed archery bow. 3,038,830, 6–12–62, Cl. 156—160.
Groves, James D.: *See—* Evans, Arthur W., and Groves. 3,017,254.
Groves, John N.: *See—* Mrenna, Stephen A., and Groves. 3,048,685.
Groves, Katherine B.: *See—* Smith, Walter H. B. 3,016,646. Smith, Walter H. B. 3,053,002.
Groves, Martin V., to Pul-Vac, Inc. Vacuum cleaner head. 3,054,131, 9–18–62, Cl. 15—382.
Groves, Robert C. Controlling movement of articles. 3,047,347, 7–31–62, Cl. 312—39.
Groves, Robert C. Method and apparatus for dispensing. 3,048,070, 8–7–62, Cl. 83—231.
Groves, Robert C. Materials dispenser and combination thereof with washing apparatus. 3,062,030, 11–6–62, Cl. 68—12
Groves, Warren O., to Monsanto Chemical Co. Non-degradative drying of sodium triphosphate hexahydrate. 3,063,801, 11–13–62, Cl. 23—107.
Groves, William A., to Argus Inc. Projector. 3,061,219, 10–30–62, Cl. 242—55.12.
Groves, William L., Jr.: *See—* Stanberry, C. J., Jr., and Groves. 3,052,628.
Groves, William L., Jr., and C. J. Stanberry, Jr., to Continental Oil Co. Low fluid loss composition. 3,065,172, 11–20–62, Cl. 252—8.55.
Groves, William L., Jr., and B. W. Terry, to Continental Oil Co. Purification of alkyl aryl sulfonates. 3,068,279, 12–11–62, Cl. 260—505.
Grove-White, Charles W., to Fielden Electronics Ltd. Continuously operating analytical instruments. 3,022,422, 2–20–62, Cl. 250—43.5.
Grow, Harlow B. Clock. 3,022,626, 2–27–62, Cl. 58—50.
Groz, Theodor, & Sohne & Beckert, Ernst, Nadelfabrik Commandit-Gesellschaft: *See—* Wiederhut, Wolfgang, and Danhammer. 3,031,867.
Grubaugh, Richard F., to Standard Oil Co. Pressed solid propellant pellets. 3,044,123, 7–17–62, Cl. 52—.5.
Grubb, Bendt: *See—* Grubb, Kjeld T. and B. 3,034,266.
Grubb, George C.: *See—* Grover, Shamsher S., Grubb, and Walk. 3,023,842.
Grubb, George C., W. W. Walk, and S. S. Grover, to The M. W. Kellogg Co. Acetylene purification. 3,023,843, 3–6–62, Cl. 183—115.
Grubb, Henry M., and C. H. Ehrhardt, to Standard Oil Co. Digitizing amplifier. 3,064,193, 11–13–62, Cl. 324—120.
Grubb, Kjeld T. and B. Metallographic polishing. 3,034,-266, 5–15–62, Cl. 51—185.
Grubb, Thomas C., and K. J. Master. Variable dose inhaler. 3,046,983, 7–31–62, Cl. 128—200.
Grubbe, Arnold C.: *See—* Styan, Richard T., and Grubbe. 3,063,307.
Grubbens & Co. Aktiebolag: *See—* Wallen, Emil O. L. 3,035,781.
Grubbs, Wiley K.: *See—* Cleveland, Bill D., and Grubbs. 3,033,112.
Grubbs, William J., Jr., M. E. Hines, and L. J. Varnerin, Jr., to Bell Telephone Laboratories, Inc. Integrated semiconductive device. 3,021,459, 2–13–62, Cl. 317—234.
Grube, Erwin: *See—* Baumann, Albert, and Grube. 3,040,912. Patzold, Georg, Myska, and Grube. 3,021,967.
Grube, Kenneth R., and D. N. Williams, to The Bunker Hill Co. Lead-nickel-cadmium alloys. 3,043,682, 7–10–62, Cl. 75—166.
Grube, Robert H., to Aerojet-General Corp. Object locating apparatus. 3,038,996, 6–12–62, Cl. 250—83.3.
Gruben, Arnold H.: *See—* Feiler, Leonard, Gruben, and Leiner. 3,043,794.
Gruber, Günter, and H.-A. Wannow, to Cassella Farbwerke Mainkur Aktiengesellschaft. Anti-crease finishings and their manufacture. 3,058,848, 10–16–62, Cl. 117—139.4.
Gruber, Helmut, and H. Scheidig, to W. C. Heraeus, G.m.b.H. Water-cooled crucible for vacuum arc furnaces. 3,019,274, 1–30–62, Cl. 13—31.
Gruber, Helmut, and H. Scheidig, to W. C. Heraeus, G.m.b.H. Movement mechanism for electrode control in vacuum arc furnaces. 3,042,731, 7–3–62, Cl. 13—13.
Gruber, Henry. Necktie knot support. 3,026,530, 3–27–62, Cl. 2—153.
Gruber, Jerome M., to Waukesha Bearings Corp. Tilting pad journal bearings. 3,022,123, 2–20–62, Cl. 308—73.
Gruber, Jerome M., to Waukesha Bearings Corp. Tilting pad type thrust bearings having integral means for measuring thrust loads. 3,033,031, 5–8–62, Cl. 73—140.
Gruber, Jerome M., to Waukesha Bearings Corp. Water lubricated thrust bearings. 3,048,456, 8–7–62, Cl. 308—160.
Gruber, Joseph J.: *See—* Dobbins, Mark, Gruber, Repp, and Rockhoff. 3,049,198.
Gruber, Joseph J., and J. J. De Falco, to Fenestra, Inc. Joint concealer and shelf T. 3,049,199, 8–14–62, Cl. 189—34.
Gruber, Joseph J., and J. J. De Falco, to Fenestra, Inc. Acoustical treated building structure. 3,068,535, 12–18–62, Cl. 20—4.
Gruber, Leslie G. Burial casket. 3,041,704, 7–3–62, Cl. 27—12.
Gruber, Stahlgruber Otto, & Co.: *See—* Gruber, Wilhelm. 3,039,509.
Gruber, Theophile, to Thermindex S.A. Magnetically controlled switching device. 3,043,931, 7–10–62, Cl. 200—87.
Gruber, Warren M.: *See—* Karpchuk, Sylvester, and Gruber. 3,020,766.
Gruber, Warren M., to Tinius Olsen Testing Machine Co. Apparatus for controlling rate of change of condition. 3,018,658, 1–30–62, Cl. 73—90.
Gruber, Warren M., to Tinius Olsen Testing Machine Co. Balancing machine. 3,035,448, 5–22–62, Cl. 73—460.
Gruber, Wilhelm, to Otto Gruber & Co., Stahlgruber. Tire patching. 3,034,621, 5–15–62, Cl. 152—367.
Gruber, Wilhelm, to Stahlgruber Otto Gruber & Co. Cold vulcanizing dry repair patch. 3,039,509, 6–19–62, Cl. 152—367.
Gruber, William H. Ore handling machine and apparatus for removing minerals from ore. 3,061,536, 10–30–62, Cl. 209—250.
Grubitsch, Heribert, to FMC Corp. Process for preparation of pure chlorine dioxide. 3,056,270, 10–2–62, Cl. 62—48.
Grudin, Daniel, to Curtiss-Wright Corp. Mechanical remote control system. 3,030,052, 4–17–62, Cl. 244—75.
Gruen, Harold: *See—* Zechter, Sol, and Gruen. 3,051,900.
Gruenberg, Elliot L., to Maxson Electronics Corp. Modulated carrier wave moving target detection radar system. 3,020,539, 2–6–62, Cl. 343—7.7.
Gruendler Crusher & Pulverizer Co.: *See—* Gruendler, William P. 3,030,035.
Gruendler, Karl-Heinz: *See—* Bartholomé, Ernst, Gruendler, and Teltschik. 3,031,-286.
Gruendler, William P., to Gruendler Crusher & Pulverizer Co. Grinders. 3,030,035, 4–17–62, Cl. 241—89.
Gruenewaelder, Lou A. Face masks. 3,042,034, 7–3–62, Cl. 128—146.
Gruenewald, Frederick P. Pressurized container. 3,064,696, 11–20–62, Cl. 141—20.
Grumbles, Samuel C., W. E. Risch, and W. H. Gillen, to Anchor Hocking Glass Corp. Closure cap and method of making same. 3,018,911, 1–30–62, Cl. 215—40.
Grumman Aircraft Engineering Corp.: *See—* Wennagel, Glenford J., and Gilruth. 3,044,432.
Grummitt, Oliver J., and J. A. Stearns, to The Sherwin-Williams Co. Active acids for metal driers useful in siccative coatings. 3,023,117, 2–27–62, Cl. 106—264.
Grummitt, Oliver J., to The Sherwin-Williams Co. Coating compositions having reduced odor on drying. 3,043,704, 7–10–62, Cl. 106—252.
Grunberg, Jacques F., and R. Brunand, to Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude L'Air Liquide. Process for the liquefaction of a gas. 3,066,492, 12–4–62, Cl. 62—9.
Grundberg, Donald N. Absentee indicator. 3,024,556, 3–13–62, Cl. 40—336.
Grundig, Max: *See—* Hebel, Martin and M. 3,063,628. Hebel, Martin, and Schweitzer. 3,017,095. Hennig, Horst. 3,041,393. Sinkewitsch, Leonid. 3,043,531. Pieplow, Hans W., Haas, and Harnisch. 3,035,786. Pieplow, Hans-Werner. 3,027,431.
Grunding G.m.b.H.: *See—* Link, Manfred. 3,034,629.

Grundmann, Christopn J., and E. Kober, to Olin Mathieson Chemical Corp. Halomethyl-5-triazines. 3,022,303, 2–20–62, Cl. 260—248.

Grundmann, Gustave L., to Radio Corp. of America. Ultrasonic transmitter mechanism. 3,028,830, 4–10–62, Cl. 116—137.

Grundmann, Gustave L., and J. E. Albright, to Radio Corp. of America. Mechanical resonator. 3,028,831, 4–10–62, Cl. 116—137.

Grundmann, John F., to Joy Mfg. Co. Hydraulically controlled and operated power tong. 3,021,739, 2–20–62, Cl. 81—53.

Grundmann, John F., to Joy Mfg. Co. Elevator. 3,061,356, 10–30–62, Cl. 294—90.

Grundmann, Werner, H. Bestian, H.-J. Bahr, and S. Sommer, to Hercules Powder Co, Inc. Process for finishing polyolefins. 3,066,130, 11–27–62, Cl. 260—94.9.

Grundmeier, Grant L. Adjustable feeding troughs for fowl. 3,050,030, 8–21–62, Cl. 119—53.

Grundseth, Odd, ½ to Fred Olsen Aviation Maintenance Norsk Flyindustri A/S and ½ to International Macgregor Organization. Rain or weather cover for ship's hatches, open railway truck and the like. 3,048,183, 8–7–62, Cl. 135—5.

Grundwasserbauten, A.G., fur: *See*—
Fehlmann, Hans B., 3,061,100.

Grundy, Clifford, to Motor Gear & Engineering Co. Ltd. Universal joints. 3,044,282, 7–17–62, Cl. 64—17.

Grundy, Robert. Landing plate. 3,037,727, 6–5–62, Cl. 244—114.

Gruneberg, Gerhard, M. Jung, H. Spengler, and E. Justl, to Accumulatoren-Fabrik Aktiengesellschaft and Siemens-Schuckertwerke Aktiengesellschaft. Method of regenerating double skeleton catalyst electrodes. 3,067,276, 12–4–62, Cl. 136—164.

Grunenberg, Anton. Tripod gun rests. 3,016,802, 1–16–62, Cl. 89—40.

Gruner, Frederick R., to Purolator Products, Inc. Mechanical signal device. 3,029,836, 4–17–62, Cl. 137—557.

Gruner, Frederick R., to Purolator Products, Inc. Throwaway oil filter. 3,042,215, 7–3–62, Cl. 210—443.

Gruner, Frederick R., to Purolator Products, Inc. Magnetic filter signal device. 3,043,262, 7–10–62, Cl. 116—70.

Gruner, Frederick R., to Purolator Products, Inc. Two flow rate filter. 3,058,593, 10–16–62, Cl. 210—493.

Gruner, Heinz E. R., to Bausch & Lomb Inc. Two-stage photogrammetric rectifier. 3,049,966, 8–21–62, Cl. 88—24.

Grunert, Erhard, to Pechiney, Compagnie de Produits Chimiques et Electrometallurgiques. Smelting furnaces. 3,059,038, 10–16–62, Cl. 13—9.

Grunert, Helmuth, to Prameta, Prazisionsmetall- und Kunststofferzeugnisse, G. Baumann & Co. Surgical lancet for blood sampling. 3,030,959, 4–24–62, Cl. 128—329.

Grunewald, Kurt H.: *See*—
Schonfeldt, Nikolaus A., and Grunewald. 3,026,171.

Grunfelder, Philip J.: *See*—
Crockett, Thomas W., Grunfelder, and Sevebeck, 3,061,798.

Grunin, Louis. Process for preparing synthetic pearlescent resin with fixed patterns. 3,046,610, 7–31–62, Cl. 18—58.

Grünke, Erich: *See*—
Forster, Jakob, and Grünke. 3,020,865.

Grünke, Erich, to E. Forster. Thread tensioning or braking devices for shuttles. 3,042,082, 7–3–62, Cl. 139—217.

Grunke, Erich, to E. and J. Forster, trading in partnership as Gebruder Forster. Sewing machines having ornamental stitch devices. 3,053,206, 9–11–62, Cl. 112—158.

Grunt, Max, and M. Ben Uri; said Ben Uri assor. to said Grunt. House construction. 3,016,583, 1–16–62, Cl. 20—1.

Grunwald, Frederick A., and W. B. Lacefield, to Mead Johnson & Co. 3-sulfanilamido-4-substituted triazoles. 3,056,780, 10–2–62, Cl. 260—239.75.

Grunwald, Louis J.: *See*—
Wally, Joseph H., Jr., and Grunwald. 3,062,093.

Grunwald, Robert R. R. Wallace, and H. Bowen, to The Harwald Co., Inc. Automatic film cleaner. 3,019,464, 2–6–62, Cl. 15—100.

Grunwaldt, Gottfried, to North American Philips Co., Inc. Multistable trigger arrangement. 3,068,368, 12–11–62, Cl. 307—88.5.

Grunzweig & Hartmann A.-G.: *See*—
Buchmeier, Eduard. 3,016,998.

Gruschke, Hans, and H. Medem, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for preparing high molecular linear polyesters from polymethylene glycols and esters of benzene dicarboxylic acids. 3,036,043, 5–22–62, Cl. 260—75.

Gruschke, Hans, and H. Medem, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for preparing high molecular linear polyesters from polymethylene glycols and esters of benzene dicarboxylic acids. 3,057,908, 10–9–62, Cl. 260—475.

Gruschow, Allan C., and H. C. Veryser. Disposable mouse trap. 3,045,384, 7–24–62, Cl. 43—81.5.

Gruskin, Ben: *See*—
Balicki, Thomas M. 3,029,458.

Gruss, George A.: *See*—
Ernst, John M., Gruss, and Martin. 3,025,061.

Gruss, George A., to American Machine & Foundry Co. Pin elevating mechanism for bowling pin spotting machines. 3,017,184, 1–16–62, Cl. 273—43.

Gruss, George A., to American Machine & Foundry Co. Pin and ball handling mechanism. 3,068,004, 12–11–62, Cl. 273—43.

Grüss, Heinz, to Siemens-Schuckertwerke Aktiengesellschaft. Anodic brightening and polishing of metal. 3,068,158, 12–11–62, Cl. 204—140.5.

Gruttadauria, Angelo S.: *See*—
Krueger, Theodore H., and Gruttadauria. 3,029,355.

Grybowski, Tnaddeus M.: *See*—
Bontwood, John E., and Grybowski. 3,017,464.

Grycтko, Carl, and K. D. Ball, to I-T-E Circuit Breaker Co. Separate phase directed venting. 3,043,939, 7–10–62, Cl. 200—144.

Grycтko, Carl E.: *See*—
Bodenschatz, August, and Grycтko. 3,023,288.

Grzych, Leo J. and S. J. Propeller hub arrangement for aircraft. 3,061,341, 10–30–62, Cl. 287—53.

Grzych, Stanley J.: *See*—
Grzych, Leo J. and S. J. 3,061,341.

Grzymek, Rolf, to The Cincinnati Milling Machine Co. Automatic feed mechanism for machine tools. 3,052,069, 9–4–62, Cl. 51—165.

Gschaider, Alfred. Automatic arc welding machine. 3,031,567, 4–24–62, Cl. 219—130.

Gschneidner, Karl A., Jr.: *See*—
Elliff, Reed O., and Gschneidner. 3,043,727.

Gschwender, Alois, to North American Philips Co., Inc. Device for inductive heating of workpieces. 3,051,812, 8–28–62, Cl. 219—10.69.

Gschwind, Robert C. Suspension safety-device. 3,042,339, 7–3–62, Cl. 242—107.4.

Gstaldeu, Alphonse C. Device to measure and register automatically angular displacement. 3,026,724, 3–27–62, Cl. 73—136.

Guadagni, Dante G., to United States of America, Agriculture. Preparation of frozen fruit. 3,025,169, 3–13–62, Cl. 99—193.

Guandique, Esperanza: *See*—
Parrish, Esperanza, and McCartney. 3,062,702.

Guanella, Gustav, 60% to K. Rath. High frequency balancing units. 3,025,480, 3–13–62, Cl. 333—33.

Guard Coatings Corp.: *See*—
Kornbluth, Murray. 3,034,915.

Guardian S.A.: *See*—
Endowes, Cecil S. 3,036,591.

Guarino, Frederick L., H. Gervais, and D. Vlahov. Clip design mechanism. 3,019,519, 2–6–62, Cl. 29—212.

Guarino, Louis S., and W. A. Ogden, to United States of America, Navy. Helicopter integrated director equipment. 3,048,836, 8–7–62, Cl. 343—7.

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Guarino, Louis S., and J. Vaccaro, Jr., to United States of America, Navy. Horizontal display. 3,059,233, 10–16–62, Cl. 343—112.

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Guarnaschelli, Vincent, and E. F. Rauch. Adjustable fuel pumps. 3,027,847, 4–3–62, Cl. 103—150.

Guarnier, Maurice: *See*—
Savage, Robert H., and Guarnier. 3,042,822.

Guarricini, Joseph, G. J. Herskowitz, and J. E. Keigler, to United States of America, Army. Satellite picture rectification. 3,026,765, 3–27–62, Cl. 88—24.

Guay, Roland H., to Phillips Petroleum Co. Rocket motor. 3,017,826, 1–23–62, Cl. 102—49.

Gubanyi, Laszlo: *See*—
Kemeny, Janos, and Gubanyi. 3,039,164.

Gubash, Peter J. Bow magazine. 3,017,874, 1–23–62, Cl. 124—23.

Gubash, Peter J. Brush deflector. 3,070,083, 12–25–62, Cl. 124—23.

Gubler, Huldreich, to Aluminium-Industrie-Aktien-Gesellschaft. Axial guide for the rolls of rolling mills. 3,046,067, 7–24–62, Cl. 308—233.

Gucker, George C., R. Hardigan, J. A. Xenakis, and J. A. Quinn, to Sperry Rand Corp., Ford Instrument Co. Division. Correcting 3D cam errors. 3,033,462, 5–8–62, Cl. 235—197.

Gudelis, David A., to Esso Research and Engineering Co. Tetrapropylene quality improvement. 3,046,316, 7–24–62, Cl. 260—671.

Guderian, Walter L., A. F. Kanda, D. G. Schulz, and W. H. Spencer, to General Mills, Inc. Broadband spectrum analyzer for testing jammers and the like. 3,035,229, 5–15–62, Cl. 324—77.

Gudermuth, Clyde S., to Missouri Wood Heel Co. Top lift. 3,057,087, 10–9–62, Cl. 36—34.

Gudgeon, Herbert: *See*—
Gee, Eric, Gudgeon, and tSephenson. 3,019,200.

Gudmundsen, Richard A., to Hughes Aircraft Co. Junction transistor having an improved current gain at high emitter currents. 3,040,197, 6–19–62, Cl. 307—88.5.

Gueck, Ralph G.: *See*—
De Paul, Alseno S., Gueck, and Morse. 3,064,152.

Guedel, Arthur R. Apparatus for flattening containers. 3,048,096, 8–7–62, Cl. 100—215.

Guedon, Noel. Grease gun. 3,021,036, 2–13–62, Cl. 222—256.

Gueffroy, Walter A.: *See*—
Currie, Frank S., and Gueffroy. 3,025,814.
Guenot, Jean R. R.: *See*—
Ficat, Raymond P., and Guenot. 3,064,645.
Guenthard, Jacques, to Sandoz Ltd. Dyestuffs of the anthraquinone series containing dichloropyrimidyl. 3,035,058, 5–15–62, Cl. 260—256.5.
Guenther, Emmerich, to Phillips Petroleum Co. Flow controller for chromatographic analyzer. 3,056,278, 10–2–62, Cl. 73—23.
Guenther, Frederick O.: *See*—
Sprung, Murray M., and Guenther. 3,017,385.
Guenther, Louis F.: *See*—
Fellberg, Hans W. Re. 25,211.
Guenther-Mitchell Engineering Co.: *See*—
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Guenther, Ralph E.: *See*—
Lee, Charles M., Guenther, and Nerwin. 3,027,818.
Guenther, Walter F., to Westinghouse Electric Corp. Binary alternator. 3,020,467, 2–6–62, Cl. 323—89.
Guenthert, Paul: *See*—
Scholz, Heinrich, and Guenthert. 3,067,255.
Guerard, Adelille. Ski sled. 3,026,120, 3–20–62, Cl. 280—12.
Guerdan, Dikran A.: *See*—
Galtz, Charles S., and Guerdan. 3,027,472.
McCown, William E., and Guerdan. 3,051,858.
Guerne, William, to Brevets Aero-Mecaniques S.A. Nose fuzes of the percussion type including a self-destruction device. 3,033,115, 5–8–62, Cl. 102—71.
Guerth, Fritz A., to United States of America, Navy. Electro-optical indicating system. 3,024,449, 3–6–62, Cl. 340—177.
Guerth, Fritz A. Shaft position indicator. 3,031,652, 4–24–62, Cl. 340—200.
Guerth, Fritz A., to United States of America, Navy. Electronic tracking apparatus. 3,039,002, 6–12–62, Cl. 250—203.
Guerth, Fritz A., to United States of America, Navy. Target tracking system. 3,057,953, 10–9–62, Cl. 178—6.8.
Guest, Howard R.: *See*—
Sookne, Arnold M., Galligan, Guest, and Adams. 3,024,135.
Sookne, Arnold M., Guest, and Adams. 3,026,216.
Stansbury, Harry A., Jr., and Guest. 3,023,243.
Stansbury, Harry A., Jr., and Guest. 3,048,622.
Guest, Howard R., B. W. Kiff, and C. B. Halstead, to Union Carbide Corp. Process for improving the color of resins produced from acrolein and pentaerythritol. 3,022,273, 2–20–62, Cl. 260—47.
Guest, Howard R., J. T. Adams, and B. W. Kiff, to Union Carbide Corp. Epoxides of bicyclic acetals. 3,023,222, 2–27–62, Cl. 260—340.7.
Guest, Howard R., and B. W. Kiff, to Union Carbide Corp. Process for the production of epsilon-caprolactones and carboxylic acids. 3,025,306, 3–13–62, Cl. 260—343.
Guest, Howard R., and R. K. Barnes, to Union Carbide Corp. Polyurethane foam and method of making same. 3,037,946, 6–5–62, Cl. 260—2.5.
Guest, Howard R., J. T. Adams, and H. A. Stansbury, Jr., to Union Carbide Corp. Chemical compounds containing sulfur and spirobi (meta-dioxane) groups. 3,043,850, 7–10–62, Cl. 260—340.7.
Guest, Howard R., and R. K. Barnes, to Union Carbide Corp. Alkylene oxide adducts of 2,2-(hydroxyaryl) ethanols. 3,065,276, 11–20–62, Cl. 260—613.
Guest, James D. Antenna with adjustable tuning reactance. 3,064,257, 11–13–62. Cl. 343—747.
Guest, Kenneth E.: *See*—
Moore, Michael, Seaberg, and Guest. 3,039,536.
Seaberg, Ernest E., and Guest. 3,030,063.
Guest, Lawrence V., to Birmingham Sound Reproducers Ltd. Adaptor for use with disc talking machines. 3,034,795, 5–15–62, Cl. 274—39.
Guest, Lawrence V., to Birmingham Sound Reproducers Ltd. Sound reproducing apparatus. 3,049,354, 8–14–62, Cl. 274—1.
Guest, Paul R., and A. R. Reinarz, to Armco Steel Corp. Pumps. 3,037,460, 6–5–62, Cl. 103—216.
Guetersloh, Donald G.: *See*—
Bale, Maurice E., Jr., and Guetersloh. 3,027,884.
Guettel, Marvin A.: *See*—
Mierendorf, Robert C., and Guettel. 3,034,024.
Guettler, Herbert W. Two-apron press. 3,063,362, 11–13–62, Cl. 100—154.
Guex, Waldemar, and M. Montavon, to Hoffmann-La Roche Inc. Unsaturated cyclic ketones and esters and processes for preparing same. 3,057,913, 10–9–62, Cl. 260—488.
Gueytron, Maurice J., to Société à Responsabilité Limitée dite Etablissemeuts G. Julin & Fils. Continuous screw press progressively adjustable during operation. 3,065,689, 11–27–62, Cl. 100—148.
Gugen, Norbert O., to E. T. Skinner & Co. Ltd. Sealing means for an aperture in an article comprised of flexible sheet material. 3,058,187, 10–16–62, Cl. 24—201.
Gugger, Rene: *See*—
Bethge, Walther, and Gugger. 3,021,243.
Guggi, Walter B.: *See*—
Kabell, Louis J., Murphy, and Guggi. 3,016,428.
Gugino, Samuel. Combined brace band and tension bar retainer for fencing. 3,022,044, 2–20–62, Cl. 256—47.
Gugler, Victor F. Dough twisting machine. 3,038,418, 6–12–62, Cl. 107—8.
Gugliemelli, Lewis A., G. L. Mayer, and C. R. Russell, to United States of America, Agriculture. Allylated dialdehyde starch and process for preparing same. 3,032,550, 5–1–62, Cl. 260—233.3.
Gugliemelli, Lewis A., G. L. Mayer, and C. R. Russell, to United States of America, Agriculture. Process for preparing allylated dialdehyde starch. 3,037,018, 5–29–62, Cl. 260—233.3.
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Guhl, August. Active-oxygen treatment for human head hair. 3,058,233, 10–16–62, Cl. 34—99.
Guiberson Corp., The: *See*—
Davis, Roy C. 3,043,372.
Davis, Roy C. 3,047,025.
Davis, Roy C. 3,047,071.
Guichard, Louis. Automatic infinitely variable-speed drive. 3,035,460, 5–22–62, Cl. 74—796.
Guichard, Raymond A. E., to Arianex. Filing systems for documents. 3,034,511, 5–15–62, Cl. 129—16.
Guida, Frank C. Electrode for inert gas shielded electric welding and cutting. 3,019,330, 1–30–62, Cl. 219—145.
Guida, Frank C. Luminescent fish lure. 3,040,462, 6–26–62, Cl. 43—17.6.
Guidi, Antonio: *See*—
Lecis, Piero, and Guidi. 3,057,683.
Guidi, Ettore: *See*—
Perfetti, Pietro, and Guidi. 3,041,251.
Guidici, Gino, and D. R. Hoffman, to Endicott-Johnson Corp. Boot or shoe having water resistant closure and gusset assembly. 3,059,353, 10–23–62, Cl. 36—50.
Guido, Frank R.: *See*—
Herrick, George H., Prescott, and Guido. 3,022,739.
Guido, Theodore C. Life saving apparatus for boats. 3,018,494, 1–30–62, Cl. 9—14.
Guidone, Vincent P. Alarm clock. 3,034,281, 5–15–62, Cl. 58—21.15.
Guier, William C. Method and apparatus for blocking off and emptying a section of pipe line. 3,040,779, 6–26–62, Cl. 138—97.
Guier, William C. Apparatus for handling stands of pipe. 3,063,509, 11–13–62. Cl. 175—200.
Guigli, Emil, to Canning, Pekara, Inc. Latch and hinge mechanism. 3,064,851, 11–20–62. Cl. 220—18.
Guilbert, Francois V., to Sud-Aviation Societe Nationale de Constructions Aeronatiques. Landing skid equipped with auxiliary wheel. 3,020,009, 2–6–62, Cl. 244—102.
Guilbert, Inc.: *See*—
Guilbert, Nicholas R., Jr., and De Feo. 3,051,269.
Guilbert, Nicholas R., Jr., and J. J. De Feo, to Guilbert, Inc. Power unit for elevator shaftway doors. 3,051,269, 8–28–62, Cl. 187—60.
Guiles, Harry W.: *See*—
Albert, Pauline M., and Guiles. 3,017,036.
Guill, A. W., to Union Carbide Corp. Liquid phase pelleter. 3,029,466, 4–17–62, Cl. 18—1.
Guilland, Charles, to Centre National de la Recherche Scientifique. Ferromagnetic materials with low coefficient of temperature of the initial magnetic permeability. 3,021,283, 2–13–62. Cl. 252—62.5.
Guillaumant, Roger E. Utensil support. 3,028,972, 4–10–62, Cl. 211—87.
Guillaume, Emile: *See*—
Guillaume, Roger and E. 3,043,270.
Guillaume, Roger and E. Means for use in securing livestock and other animals. 3,043,270, 7–10–62, Cl. 119—119.
Guillet, Henri. Electrical connecting device. 3,065,383, 11–20–62 Cl. 317—101.
Guillet, James E., R. L. Combs, and C. E. Tholstrup, to Eastman Kodak Co. Polyethylene containing unsaturated monoesters. 3,057,810, 10–9–62, Cl. 260—23.
Guilleux, Robert, to Societe a Responsabilite Limitee la Detection Electronique Francaise. Apparatus responsive to the composition of a gaseous medium. 3,028,490, 4–3–62, Cl. 250—43.5.
Guillotte, Robert J.: *See*—
Gillespie, Hatcher, and Guillotte. 3,038,077.
Guinan, Joseph C.: *See*—
Mulheren, Joseph D., and Guinan. 3,066,794.
Guinard, Norman W.: *See*—
De Kanski, Leon M., Dinsmoor, Guinard, and Martinuzzi. 3,056,104.
Guinard, Paul A. By-pass relief valve. 3,035,596, 5–22–62, Cl. 137—116.
Guinard, Paul A. Distributing device. 3,042,063, 7–3–62, Cl. 137—115.
Guinett, Elsa C. and L. W. Head covering device. 3,055,377, 9–25–62, Cl. 132—48.
Guinett, Louis W.: *See*—
Guinett, Elsa C. and L. W. 3,055,377.
Guinn, J. Edwin, ¼ to A. E. Jackson and ¼ to H. P. Knight. Portable sanders. 3,049,841, 8–21–62, Cl. 51—170.
Guinness, Arthur, Son and Co. (Park Royal) Ltd.: *See*—
Ash, Michael E. 3,063,841.
Guiorguiev, Methodi. Surgical needle. 3,035,580, 5–22–62, Cl. 128—303.18.
Guiot, Maurice, to Recherches et Etudes Electroniques et Mecaniques, R.E.T.E.M. Low-pressure fuel injection device. 3,036,564, 5–29–62, Cl. 123—119.
Gulas, John, Sr. Door holder. 3,019,044, 1–30–62, Cl. 292—275.

Gulbrandsen, Helge, to United Shoe Machinery Corp. Apparatus for use in pressing soles and flaps against shoe bottoms and heel breasts. 3,030,643, 4–24–62, Cl. 12—16.4.

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Gulbrandsen, Helge, and G. V. Sprague, Jr., to United Shoe Machinery Corp. Machines for applying pressure to shoe bottoms. 3,052,901, 9–11–62, Cl. 12—38.

Guldemond, John, and H. E. Van Hoesen, to Research Corp. Electrical precipitator power system. 3,039,252, 6–19–62, Cl. 55—105.

Gulden, Ernest V.: *See*—
Hearsum, Desmond R., and Gulden. 3,047,226.

Gulden, Raymond O., to George P. Pilling & Son Co. Tonometer. 3,062,042, 11–6–62, Cl. 73—80.

Gulf Interstate Oil Co.: *See*—
Young, Farrie S. 3,021,864.
Young, Farrie S. 3,045,893.
Young, Farrie S. 3,053,032.

Gulf Oil Corp.: *See*—
Eld, Aksel C., and Lehrian. 3,027,145.
Eld, Aksel C., and Lehrian. 3,055,646.
Franklin, Leslie U., and Gebhart. 3,042,615.
Japp, Albert L. 3,057,518.
Litchfield, William H. 3,060,005.
Pryor, William T., and Knopp. 3,055,764.
Rogers, Walter F. 3,039,545.

Gulf Research & Development Co.: *See*—
Anderson, John E., Franke, and Strellec. 3,060,197.
Barie, Walter P., Jr., and Selwitz. 3,040,081.
Beutler, Harold, Fliam, and Larson. 3,053,750.
Boucek, Albert C., Elliott, and Stewart. 3,029,207.
Cantrell, Troy L., Fisher, and Peters. 3,029,203.
Churchill, Arthur V. 3,048,480.
Churchill, Arthur V., and Fareri. 3,067,019.
Coggeshall, Norman D., Doolen, and Wyckoff. 3,059,478.
Dimond, Harold L. 3,046,315.
Donaldson, Robert E., Offutt, and Rice. 3,062,735.
Elliott, George E., Jr., and Lerner. 3,033,800.
Elliott, George E., Jr., McKinley, and Stewart. 3,017,-368.
En Dean, Howard J., Jones, and Topanelian. 3,016,733.
Fareri, Elizabeth L., and Pellegrini. 3,020,135.
Fareri, Elizabeth L., and Pellegrini. 3,039,956.
Fareri, Elizabeth L., and Pellegrini. 3,048,607.
Fareri, Elizabeth L., and Pellegrini. 3,070,429.
Flinn, Richard A., and Stewart. 3,020,239.
Francis, Elliott S., and Shoemaker. 3,024,194.
Gaston, Gardner E., and Howard. 3,025,147.
Gaston, Gardner E., and Howard. 3,033,665.
Goodwin, Robert J. 3,045,753.
Gottshall, Ralph I., and Swain. 3,017,359.
Gottshall, Ralph I., Peters, and Swain. 3,035,908.
Hall, William K., Sill, and Wolfe. 3,028,213.
Halter, Robert E., and Hartle. 3,042,697.
Halter, Robert E., McCarthy, and McGrath. 3,042,614.
Hartle, Robert J. 3,055,748.
Hartle, Robert J. 3,055,925.
Hartle, Robert J. 3,068,259.
Hay Russell G., and Helwig. 3,033,906.
Hay, Russell G., Meyer, and Selwitz. 3,068,306.
Henderson, James H., and Wyllie. 3,018,827.
Henke, Alfred M., and McKinley. 3,053,760.
Huitt, Jimmie L., McGlothlin, and Papaila. 3,026,938.
Huitt, Jimmie L., Pekarek, and Teplitz. 3,062,294.
Jewell, James G. 3,017,353.
Keeling, Roland O., Jr. 3,029,341.
Kollar, John, and Schulz. 3,060,236.
Krack, Elmer J. 3,024,408.
Lerner, Bernard J. 3,025,131.
Lerner, Bernard J. 3,025,157.
Lerner, Bernard J. 3,052,627.
Lichtenfels, Dean H. 3,030,798.
McCarthy, Paul R. 3,052,631.
McGuire, Robert J. 3,066,018.
Murphy, Clarence R. 3,027,411.
Murphy, Clarence R. 3,052,731.
Murphy, Clarence R. 3,062,889.
Myers, Earl E. 3,029,135.
Norris, Matthew S. 3,053,913.
Odioso, Raymond C., and Frech. 3,062,903.
O'Reilly, Donald E. 3,020,469.
Patnode, Homer W. 3,019,693.
Pellegrini, John P., Jr., and Strange. 3,067,224.
Rocchini, Albert G., and Trautman. 3,057,151.
Rocchini, Albert G., and Trautman. 3,057,152.
Rocchini, Albert G., and Trautman. 3,057,153.
Rosenberg, Milton. 3,027,324.
Searr, John, Jr. 3,033,278.
Teplitz, Abraham J. 3,026,936.
Thayer, Helen I. 3,031,401.
Tittle, Charles W. 3,053,388.
Tracht, Joseph H. 3,053,077.
Tracht, Joseph H. 3,070,645.
Trautman, Charles E. 3,033,788.
Trautman, Charles E. 3,066,100.
Walde, Robert A. 3,070,630.
Wyllie, Malcolm R. J. 3,057,403.
Wyllie, Malcolm R. J. 3,062,286.

Gulick, Kenneth H., to Harris-Intertype Corp. Pile raising control mechanism. 3,047,289, 7–31–62, Cl. 271—30.

Gulick, Ronald A.: *See*—
Anderson, Clifford E., Gulick, and Nagel. 3,067,977.

Gulick, Ronald A., to ACF Industries, Inc. Swing check valve. 3,038,494, 6–12–62, Cl. 137—527.2.

Gulick, Ronald A., to ACF Industries, Inc. Back seating for valve stems. 3,051,434, 8–28–62, Cl. 251—167.

Gulledge, Hugh C., to E. I. du Pont de Nemours and Co. Process of making wool-like cellulosic textile materials stabilized against photodegradation. 3,053,606, 9–11–62, Cl. 8—115.6.

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Gulley, Irvin G. Manually operated supply and vent valve. 3,070,125, 12–25–62, Cl. 137—625.27.

Gullstrom, Delora K.: *See*—
Burchfield, Harry P., and Gullstrom. 3,054,800.

Gulnick, Adrion N., and K. Van Vechten, to International Telephone and Telegraph Corp. Tape transports. 3,029,-006, 4–10–62, Cl. 226—50.

Gulton Industries, Inc.: *See*—
Dahlke, Hugo E. 3,050,998.
Day, Robert G. 3,036,153.
Halter, Robert E., and McGrath. 3,035,907.
Hartle, Robert J., and Thayer. 3,035,969.
Hay, Russell G., and Montgomery. 3,044,963.
Henke, Alfred M., and Peterson. 3,046,218.
Howatt, Glenn N. 3,027,441.
Howatt, Glenn N. 3,027,540.
Howatt, Glenn N. 3,054,035.
Howatt, Glenn N., Dranetz, and Welkowitz. 3,040,301.
Huitt, Jimmie L., Pekarek, and Topanelian. 3,050,122.
Laird, William M., and Wyllie. 3,047,488.
Lefkowitz, Issai. 3,024,371.
McGrath, Joseph J., and Pellegrini. 3,047,498.
McGuire, Robert J. 3,047,373.
Orlacchio, Anthony W. 3,045,131.
Patnode, Homer W. 3,049,046.
Pellegrini, John P., Jr. 3,047,375.
Ridenour, William P. 3,046,238.
Rosenberg, Milton. 3,047,493.
Rosenberg, Milton, and Schaub. 3,048,538.
Scarr, John, Jr. 3,047,273.
Schilling, Arthur R., and Brichsen. 3,025,359.
Schwartz, Daniel S. 3,060,748.
Selwitz, Charles M., and Walde. 3,047,618.
Swartz, George B., Jr. 3,044,950.
Thayer, Helen I. 3,047,607.
Walsh, Bruce R. 3,051,226.
Welkowitz, Walter. 3,019,660.
Welkowitz, Walter. 3,019,661.
Welkowitz, Walter. 3,020,759.
Welkowitz, Walter. 3,028,749.

Gulya, John A., to Lukens Steel Co. Method of hot forming nickel steel by pressure dies. 3,024,529, 3–13–62, Cl. 29—55.5.

Gum, Rowland H., to San Joaquin Valley Turkey Grower's Assn. Press for forming tied meat rolls. 3,019,722, 2–6–62, Cl. 100—1.

Gumb, John: *See*—
Bondy, Herbert F., and Gumb. 3,022,331.

Gumbinner, Robert, to Polychrome Corp. Method and composition for fixing transfer image. 3,029,727, 4–17–62, Cl. 101—149.2.

Gumboldt, Albert G. M.: *See*—
Bier, Gerhard, Gumboldt, Hartmann, and Happe. 3,036,-052.
Rust, Kurt K. G., Gumboldt, Horndler, Sommer, and Heitzer. 3,058,970.
Wiberg, Egon, Hartwimmer, and Gumboldt. 3,048,574.

Gummer, Swen G.: *See*—
Meyers, Joseph. 3,031,036.

Gummere, Harold O., and E. L. Kissell, to Buckeye Tools Corp. Feeding apparatus. 3,029,978, 4–17–62, Cl. 221—22.

Gummeson, Per Eg., and M. Mathiesen, to Hoganasmetoder, Aktiebolaget. Continuous kilns. 3,038,711, 6–12–62, Cl. 263—28.

Gump, B. F., Co.: *See*—
Nowak, Leon J., Jr. 3,065,842.

Gump, Richard E.: *See*—
Martin, Howard F. 3,045,381.

Gump, Robert G.: *See*—
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Gump, William S.: *See*—
Manowitz, Milton, and Gump. 3,061,469.

Gumpertz, Donald G. Methods and apparatus for identifying containers. 3,033,367, 5–8–62, Cl. 209—111.5.

Gumpertz, Donald G., and J. E. Hendricks, said Hendricks assor. to said Gumpertz. Character projection apparatus. 3,041,600, 6–26–62, Cl. 340—378.

Gumpertz, Donald G., and S. T. Schy; said Schy assor. to said Gumpertz. Electronic control system. 3,044,563, 7–17–62, Cl. 117—3.

Gündel, Wolfgang: *See*—
Boller, Carl, Gündel, and Kirstahler. 3,019,123.
Strauss, Wennemar, Gundel, Kirstahler, and Willmund. 3,030,283.

Gündel, Wolfgang, to Dehydag, Deutsche Hydrierwerke G.m.b.H. Method of producing sulfonic derivatives of N-substituted dithiocarbamic esters. 3,023,215, 2–27–62, Cl. 260—293.4.

Gunderloy, Frank C., Jr.: *See*—
Lovett, William E., and Gunderloy. 3,070,430.

Gunderloy, Frank C., Jr., to Esso Research and Engineering Co. Synthesis of partial esters of phosphorus acids and salts thereof. 3,019,249, 1–30–62, Cl. 260—461.

Gunderson, Allen D., to Gorton, George Machine Co. Index type multiple spindle pantograph machine. 3,023,676, 3–6–62, Cl. 90—13.1.

Gunderson, Arthur M. Golfer's tool. 3,047,896, 8–7–62, Cl. 15—111.

Gunderson, Henry W. Jr., and A. A. McGrath. Drop bottom basket. 3,047,329, 7–31–62, Cl. 294—69.

Gunderson, Leland B.: *See*—
Loevenstein, Hirsch, Carlson, and Gunderson. 3,019,895.

Gunderson, Lewis O., to Dearborn Chemical Co. Amino-aldehyde condensation product. 3,025,313, 3–13–62, Cl. 260—404.5.

Gunderson, Ralph R. Signal flare package. 3,063,556, 11–13–62, Cl. 206—65.

Gunderson, Ralph R. Reflecting signal marker. 3,066,577, 12–4–62, Cl. 88—79.

Gundlach, Robert W., to Xerox Corp. Electrostatic emulsion development. 3,068,115, 12–11–62, Cl. 117—37.

Gundstrom, Otto E. Valve rotator. 3,043,284, 7–10–62, Cl. 123—90.

Gunnelle, Piyatilleke P., M. Young, and G. H. French, to United Kingdom Atomic Energy Authority. Nuclear reactor fuel element having a thermocouple junction within its sheath. 3,051,641, 8–28–62, Cl. 204—193.2.

Gunew, Dimiter, to Imperial Chemical Industries of Australia and New Zealand Ltd. Paper chromatographic equipment. 3,067,132, 12–4–62, Cl. 210—31.

Gungle, Warren C., and J. F. Waymouth, to Sylvania Electric Products Inc. Helium-argon lamp. 3,052,813, 9–4–62, Cl. 313—109.

Gungle, Warren C., and J. F. Waymouth, to Sylvania Electric Products Inc. Aperture fluorescent lamp. 3,067,351, 12–4–62, Cl. 313—109.

Gunn, Earl G., to Young Radiator Co. Modulating power-transmission unit. 3,020,992, 2–13–62, Cl. 192—61.

Gunn, Fred A., and H. H. Morris, to Southern Clays, Inc. Delaminated English clay products, etc. 3,034,859, 5–15–62, Cl. 23—110.

Gunn, John C.: *See*—
French, John L., Termont, and Gunn. 3,032,215.

Gunnert, Anders R., to Svenska Aktiebolaget Gasaccumulator. Method for measuring uni- or tri-axial inherent stresses. 3,068,688, 12–18–62, Cl. 73—88.

Gunning, Alfred W., to Multi-Lift Co. Friction-free load hoisting mast. 3,061,045, 10–30–62, Cl. 187—9.

Gunning, Alfred W., to The Multi-Lift Co. Load hoisting mast with roller chain anti-friction means. 3,061,046, 10–30–62, Cl. 187—95.

Gunning, Alfred W., to The Multi-Lift Co. Multiple section materials handling structure with anti-friction bearings. 3,061,047, 10–30–62, Cl. 187—95.

Gunning, Harry E.: *See*—
Keller, Daniel F., and Gunning. 3,028,799.

Gunnison, Richard N., to Enterprise Railway Equipment Co. Sliding closure operating mechanism for hopper outlet. 3,066,618, 12–4–62, Cl. 105—282.

Gunsalus, Irwin C.: *See*—
Reed, Lester J., and Gunsalus. 3,049,549.

Gunson, Cecil P. Mobile incinerator. 3,038,421, 6–12–62, Cl. 110—18.

Gunson, R.W. (Seeds) Ltd.: *See*—
Fraenkel, Herbert. 3,053,497.
Fraenkel, Herbert. 3,066,797.

Gunst, Alfred: *See*—
Bernutz, Johannes, and Gunst. 3,059,059.

Gunst, Dennis, to Instant Synchronization Corp. Method of modifying a recorded sound track and apparatus for producing a modified sound track. 3,049,965, 8–21–62, Cl. 88—16.2.

Gunst, Raymond: *See*—
Fasciati, Alfred, and Gunst. 3,040,023.

Gunst, Raymond, to Ciba Co., Inc. Diazo triazine dyestuffs. 3,040,021, 6–19–62, Cl. 260—153.

Gunst, Raymond, to Ciba Corp. Water-soluble disazo-dyestuffs. 3,050,515, 8–21–62, Cl. 260—153.

Gunter, Colie W., to Sperry Rand Corp. Stamp transfer wheel. 3,030,262, 4–17–62, Cl. 156—567.

Gunter, Edmund J.: *See*—
Bethe, Eugene J., and Gunter. 3,032,828.

Guntert, Ronald M., W. F. Earley, and R. E. Noack, to Guntert & Zimmerman Const. Div., Inc. Feeler unit for the control of a traveling machine. 3,064,217, 11–13–62, Cl. 336—30.

Guntert & Zimmerman Const. Div., Inc.: *See*—
Guntert, Ronald M., Earley, and Noack. 3,064,217.

Günthard, Hans H., and J. J. Primas, to Trüb, Täuber & Co., A.G. Device for ascertaining nuclear induction spectra. 3,034,039, 5–8–62, Cl. 324—.5.

Gunthel, Alfred B., Jr., to Dossert Mfg. Corp. Angularly adjustable bus bar support assembly. 3,023,990, 3–6–62, Cl. 248—70.

Gunther, Arnold, to Rubber & Fibre Chemical Corp. Drum drier for evaporating solvent from a solution of unvulcanized rubber. 3,048,218, 8–7–62, Cl. 159—12.

Gunther, Conrad J.: *See*—
Dzus, Theodore, and Gunther. 3,055,071.

Gunther, Donald A., to American Sterilizer Co. Vacuum switch. 3,064,223, 11–20–62, Cl. 21—103.

Gunther, Eberhard: *See*—
Lässig, Wolfgang, and Gunther. 3,063,837.

Gunther, Ellen P.: *See*—
Kaiser, Emil, and Gunther. 3,053,825.
Kaiser, Emil, and Gunther. 3,053,835.

Günther, Fredo, to Schering A.G. Method of destroying weeds. 3,036,908, 5–29–62, Cl. 71—2.4.

Gunther, Gunnar G. J., and G. B. Rosengren, to Lumalampan Aktiebolag. Method of producing a light-diffusing layer on glass surfaces, especially on the inside of electric lamp envelopes. 3,058,866, 10–16–62, Cl. 156—25.

Gunther-Mohr, Gerard R., to International Business Machines Corp. Single crystal refining. 3,020,132, 2–6–62, Cl. 23—301.

Gunther, Theodore: *See*—
Englehart, Alva F., and Gunther. 3,031,962.

Günther, Willi: *See*—
Sauer, Edgar, Günther, and Wutzler. 3,045,570.

Gunther, William H., Jr., to Indair, Inc. Air transportable drill frame. 3,047,080, 7–31–62, Cl. 175—201.

Gunver Mfg. Co., The: *See*—
Williams, La Vergne H. 3,017,205.

Guptill, Edwin C., to General Electric Co. Electrical measuring instrument. 3,026,477, 3–20–62, Cl. 324—147.

Guralnick, Morris, and D. Titus. Cargo container. 3,032,227, 5–1–62, Cl. 220—1.5.

Gurin, Emanuel. Printing machine and printing blanket therefor. 3,045,595, 7–24–62, Cl. 101—415.1.

Gurin, Lawrence R. Orthodontic device. 3,036,204, 10–2–62, Cl. 32—14.

Gurley, Grey M.: *See*—
Carroll, Fred M., and Gurley. 3,015,264.
Carroll, Fred M., and Gurley. 3,033,564.

Gurner, John R.: *See*—
Long, Everett, Packman, and Gurner. 3,029,344.

Gurney, Gordon T., to The Gamewell Co. Flow proportioning system for foam producing apparatus. 3,047,003, 7–31–62, Cl. 137—100.

Gursky, Harlan A., and M. D. Guyot. Calculating device. 3,023,954, 3–6–62, Cl. 235—84.

Gurney, Irving K.: *See*—
Reynolds, Dennis G., and Gurney. 3,054,604.

Gurney, Joseph T., Sr. Time delay switch. 3,020,363, 2–6–62, Cl. 200—33.

Gurnlak, John, to Michael Flynn Mfg. Co. Pivotal slidable window. 3,041,680, 7–3–62, Cl. 20—42.

Gurries Mfg. Co.: *See*—
Curlett, John. 3,057,092.
Curlett, John. 3,065,602.

Gursky, Henry, Kolb, and J., to General Electric Co. Resin foam insulated cabinet structure including improved electrical conductor arrangement. 3,042,780, 7–3–62, Cl. 219—19.

Gursky, Henry D., to Curtin-Hebert Co., Inc. Wide face finishing machine using a coated abrasive. 3,060,646, 10–30–62, Cl. 51—139.

Gurtner, Francis B., to The Budd Co. Multiple electrode mounting. 3,061,711, 10–30–62, Cl. 219—78.

Gurton, Owen A., and R. W. Moody, to Imperial Chemical Industries Ltd. Delay fuse elements for delay electric detonators and delay electric detonators containing them. 3,041,914, 7–3–62, Cl. 86—1.

Gurtowski, Francis J., to The Electric Storage Battery Co. Adjustable headband. 3,041,622, 7–3–62, Cl. 2—8.

Gurvis, Henry, to Crown Auto Top Mfg. Co. Heat and pressure sealing press. 3,026,237, 3–20–62, Cl. 156—365.

Gusching, Nagle V.: *See*—
Gusching, Wayne H., and Gusching. 3,017,863.

Guse, Artur: *See*—
Paul, Siegfried, and Guse. 3,061,764.

Gusey, Arthur L., 25% to A. B. Pearson. Clutch release for worm gear peg. 3,023,658, 3–6–62, Cl. 84—306.

Guss, Cyrus O.: *See*—
Gassner, Francis X., and Guss. 3,034,962.

Guss, Reuben. Loudspeaker. 3,055,991, 9–25–62, Cl. 179—115.5.

Gussow, William A., to S & C Electric Co. Switch construction. 3,070,674, 12–25–62, Cl. 200—48.

Gussow, William A., and J. J. Mikos, to S & C Electric Co. Switch construction. 3,030,481, 4–17–62, Cl. 200—146.

Gust, George A.: *See*—
Osborne, William B. 3,021,925.

Gustafson, August W., and R. E. McGlothlin; said McGlothlin assor. to said Gustafson. Line marking machine. 3,052,077, 9–4–62, Cl. 56—25.4.

Gustafson, Blaine W., to Deere & Co. Rake tooth means. 3,019,586, 2–6–62, Cl. 56—400.

Gustafson, Blaine W., to Deere & Co. Rake tooth mounting means. 3,031,835, 5–1–62, Cl. 56—400.

Gustafson, Blaine W., to Deere & Co. Rake tooth mounting means. 3,065,591, 11–27–62, Cl. 56—400.

Gustafson, Carl M.: *See*—
Matusky, Steve M., Gustafson, and Leffan. 3,025,997.

Gustafson, Edwin A., ⅓ to J. W. Bretall and ⅓ to L. Mayer. Side-mounted mower. 3,023,561, 3–6–62, Cl. 56—25.4.

Gustafson, Eric W., to Kleen-Stik Products, Inc. Adhesive transfer machine. 3,043,365, 7–10–62, Cl. 156—540.
Gustafson George W., and L. R. Langfeldt, to Lamb Grays Harbor Co., Inc. Tail gluer. 3,063,408, 11–13–62, Cl. 118—253.
Gustafson, Gordon W., to Minneapolis-Honeywell Regulator Co. Switch apparatus. 3,018,345, 1–23–62, Cl. 200—67.
Gustafson, Henry A., to C. R. Jennings. Dispensing closures. 3,023,939, 3–6–62, Cl. 222—536.
Gustafson Ivar R.: *See*—
Fredriksson, Per Sven E., Granström, and Gustafson. 3,032,289.
Gustafson, Robert E., to United States of America, Navy. Temperature sensing element and method of installation. 3,052,123, 9–4–62, Cl. 73—343.
Gustafson, Wilbur E.: *See*—
Chase, Walter M., Gustafson, Hall, Kievens, Campbell, and Porciuncula. 3,031,615.
Gustafsson, Carl J.: *See*—
Barth, Elmer J., and Gustafsson. 3,046,807.
Gustafsson, Eric R. Screeds. 3,067,656, 12–11–62, Cl. 94—45.
Gustafsson, Ernst B. Expansion valve. 3,034,534, 5–15–62, Cl. 137—781.
Gustavson, Sterling T., and V. G. Hanson, to International Cigar Machinery Co. Tobacco product and method and apparatus for making same. 3,016,779, 1–16–62, Cl. 83—242.
Gustavsson, John O., to Atiebolaget Svetsmekano. Plate shearing machines. 3,058,379, 10–16–62, Cl. 83—314.
Gustavsson, Karl A. G., to Bahco, Aktiebolaget. Gas purifying apparatus. 3,061,993, 11–6–62, Cl. 55—248.
Gustin-Bacon Brake Co.: *See*—
Frankhouser, Frederick M., Clark, and Wearden. 3,065,997.
Gustin-Bacon Mfg. Co.: *See*—
Adams, Waldemar H. 3,025,194.
Higgins, Lee J., Jr. 3,022,020.
Sheidley, Hubert O. 3,025,197.
Stephens, Joseph F. 3,021,247.
Stephens, Joseph F., Higgins, and Haynes. 3,020,192.
Warkoczewski, Joseph T. 3,035,317.
Warkoczewski, Joseph T. 3,040,395.
Warkoczewski, Joseph T. 3,040,398.
Warkoczewski, Joseph T. 3,060,774.
Gustin, Giuliano, to Fratelli Borletti, S.p.A. Combination rotary hook and bobbin-holding basket device for sewing machines. 3,067,703, 12–11–62, Cl. 112—230.
Gustin, Giuliano, to Fratelli Borletti S.p.A. Work feeding devices for sewing machines. 3,070,051, 12–25–62, Cl. 112—217.
Gustison, Robert A., to Union Carbide Corp. Tantalum and columbium pentafluoride production. 3,056,649, 10–2–62, Cl. 23—88.
Gustke, John W.: *See*—
Reitze, James J., Gustke, Schultz, and Thompson. 3,033,051.
Guszmann, Max. Radiator system. 3,033,536, 5–8–62, Cl. 257—262.16.
Gut, Marcel, and R. I. Dorfman, to Worcester Foundation for Experimental Biology. Delta-4-pregnenolones and method. 3,061,060, 10–30–62, Cl. 260—239.55.
Gut, Stanley J.: *See*—
Molander, William A., Jr., and Gut. 3,065,145.
Guta, Leon. Drain check valves. 3,044,433, 7–17–62, Cl. 114—197.
Gutberlet, Theodor, to Schunk & Ebe G.m.b.H. Brush holders for electrical machinery. 3,049,637, 8–14–62, Cl. 310—246.
Gutehoffnungshütte Sterkrade Aktiengesellschaft: *See*—
Hoyden, Adolf. 3,061,274.
Hügel, Helmut. 3,051,004.
Vogel, Rudolf, and Hoefer. 3,051,431.
Guterman, Sadia S., to Raytheon Co. Magnetic core shift register. 3,017,084, 1–16–62, Cl. 235—92.
Gutfreund, Sol. Automatic food chopper lock. 3,036,615, 5–29–62, Cl. 146—186.
Guth, Chester K., to Oravisual Co., Inc. Easels. 3,015,906, 1–9–62, Cl. 45—129.
Guth, Durward O. Method for killing weeds. 3,023,096, 2–27–62, Cl. 71—2.4.
Guth, Edwin F., Co., The: *See*—
Guth, Edwin F., Jr. 3,015,721.
Guth, Edwin F., Jr., to The Edwin F. Guth Co. Fluorescent lighting fixtures. 3,015,721, 1–2–62, Cl. 240—51.11.
Guth, Eugene D.: *See*—
Larsen, Olaf E., and Guth. 3,058,301.
Guth, Eugene D., to Phillips Petroleum Co. Method for stabilizing of ammonium nitrate. 3,018,164, 1–23–62, Cl. 23—103.
Guth, Eugene D., to Phillips Petroleum Co. Solid propellant and a process for its preparation. 3,018,203, 1–23–62, Cl. 149—19.
Guth, Eugene D., and C. G. Long, to Phillips Petroleum Co. High burning rate solid propellant. 3,044,910, 7–17–62, Cl. 149—19.
Guth, Frederick A. Piano action. 3,058,382, 10–16–62, Cl. 84—249.
Guth, Lauren W., to General Electric Co. Waste disposal apparatus. 3,034,734, 5–15–62, Cl. 241—36.
Guth, Lauren W., and D. S. Cushing, to General Electric Co. Dishwashing apparatus. 3,067,759, 12–11–62, Cl. 134—176.
Guth, Sylvester K.: *See*—
Fleming, David G., and Guth. 3,047,718.
Guthman, Richard A., Jr.: *See*—
Greenblatt, Sidney R., and Guthman. 3,018,780.
Guthrie, George G. Pressure actuated switch. 3,043,929, 7–10–62, Cl. 200—83.
Guthrie, John D.: *See*—
Bullock, Austin L., and Guthrie. 3,017,237.
Bullock, Austin L., and Guthrie. 3,065,222.
Guthrie, John W.: *See*—
Bradshaw, Harold G., Guthrie, and Shaw. 3,066,817.
Gutjahr, Heinrich: *See*—
Bienert, Berthold, Breig, Groll, and Gutjahr. 3,047,582.
Gutknecht, William J. Method for producing embossed designs in an injection mold. 3,052,581, 9–4–62, Cl. 156—10.
Gutmann, Ferdinand, & Co.: *See*—
Gould, Jack U., and Gutmann. 3,019,933.
Gutmann, Hugo, to Hoffmann-La Roche, Inc. 1-(cycloalkanoyl)- and 1-(tri-alkyl-acetyl)-2,2-(di-substituted)-hydrazine compounds. 3,062,881, 11–6–62, Cl. 260—557.
Gutmann, Hugo, R. Hegedus, and P. Zeller, to Hoffmann-La Roche Inc. Amino acid hydrazides. 3,065,265, 11–20–62, Cl. 260—534.
Gutmann, Leonard M.: *See*—
Gould, Jack U., and Gutmann. 3,019,933.
Gutmann, William R.: *See*—
Fleming, Harold W., and Gutmann. 3,050,571.
Gutridge, Jack E., to Pullman Inc. Apparatus for handling freight. 3,051,098, 8–28–62, Cl. 105—368.
Gutridge, Jack E., to Pullman Inc. Highway-railway transportation system and apparatus. 3,070,041, 12–25–62, Cl. 105—366.
Gutsche, Heinrich: *See*—
Schweickert, Hans, Gutsche, and Emeis. 3,030,189.
Gutsche, Heinrich, to Siemens-Schuckertwerke Aktiengesellschaft. Method for producing highest-purity silicon for electric semiconductor devices. 3,042,494, 9–3–62, Cl. 23—223.5.
Gutsell, Erwin S., Jr., and B. J. Magerlein, to The Upjohn Co. Hydrocortisone 21-β,β-dimethyl glutarate and derivatives thereof. 3,025,311, 3–13–62, Cl. 260—397.45.
Gutshall, Charles E., to Illinois Tool Works, Inc. Lock washer. 3,032,089, 5–1–62, Cl. 151—25.
Gutshall, Charles E., to Illinois Tool Works, Inc. Retainer. 3,056,597, 10–2–62, Cl. 267—1.
Gutstein, Martin: *See*—
Howemeyer, William E., Gutstein, and Begell. 3,035,353.
Güttel, Gerhard, to Adrema-Werke G.m.b.H. Machine for embossing printing plates. 3,042,175, 7–3–62, Cl. 197—6.7.
Gutteling, Jan, to International Business Machines Corp. Sheet feeding device. 3,025,052, 3–13–62, Cl. 271—28.
Gutting, Robert D. Device for laying out corners. 3,066,416, 12–4–62, Cl. 33—1.
Guttman, Joseph M. Finger stylus. 3,048,149, 8–7–62, Cl. 120—42.4.
Gutweiler, Klemens, and H. Niebergall, to Shell Oil Co. Polyaddition products of phosphines with unsaturated silanes. 3,070,582, 12–25–62, Cl. 260—80.
Gutweniger, Edgar C. Skeleton roll printing press. 3,054,348, 9–18–62, Cl. 101—420.
Guty, Bernard J., to Radio Corp. of America. Apparatus for soldering printed circuit sheets. 3,053,215, 9–11–62, Cl. 113—129.
Gutzmer, Ernest R., to Intercompany Corp. Production of lithographic printing plates. 3,059,560, 10–23–62, Cl. 95—89.
Gutzwiller, Ernst, to Saul & Co., as nominee of Fidelity Union Trust Co., trustee under Sandoz Trust. Pigment dyestuffs from 1-N-(β-1'-benzanthronyl)-aminoanthraquinones by acid condensing agents. 3,022,307, 2–20–62, Cl. 260—274.
Gutzwiller, Frank W., to General Electric Co. Silicon controlled rectifier circuit including a variable frequency oscillator. 3,040,270, 6–19–62, Cl. 331—113.
Guy, Granville M., to Poly Industries, Inc. Fast action coupling and clamping assembly. 3,042,430, 7–3–62, Cl. 285—365.
Guy, Harold D.: *See*—
McCoubrey, Arthur O., Holloway, Mainberger, and Guy. 3,060,384.
Guy, James W., and D. R. Ballard, to E. E. Moubayed. Leafproof variable-volume holder for frozen confections. 3,062,369, 11–6–62, Cl. 206—56.
Guyer, Raymond A., Jr., to Lukens Steel Co. Apparatus and method for manufacture of riveted plate girders. 3,052,140, 9–4–62, Cl. 78—49.
Guyer, Reynolds. Tissue packages. 3,021,002, 2–13–62, Cl. 206—57.
Guyer, Reynolds, to Waldorf Paper Products Co. Easy opening carton. 3,022,931, 2–27–62, Cl. 229—51.
Guyer, Reynolds, to Waldorf Paper Products Co. Reclosable cartons. 3,058,646, 10–16–62, Cl. 229—44.
Guyer, Reynolds, and N. H. Sandberg, to Waldorf Paper Products Co. Apparatus for die cutting paperboard. 3,020,809, 2–13–62, Cl. 93—58.3.
Guyer, Walter R. F., and E. Arundale, to Esso Research and Engineering Co. Platinum-alumina catalyst containing added aluminum chloride. 3,022,252, 2–20–62, Cl. 252—442.
Guyot, Hubert: *See*—
Cuille, Jean, and Guyot. 3,030,266.
Guyot, Marius G., to Aluminum Co. of America. Casting equipment. 3,049,767, 8–21–62, Cl. 22—68.

Guyot, Morel D.: *See*—
Gurney, Harlan A., and Guyot. 3,023,954.
Guyot, Roger R. G. Marker for any kind of live-stock, more specially poultry. 3,016,643, 1–16–62, Cl. 40—302.
Guyton, James H., and G. M. Gaskill, to General Motors Corp. Transistorized heater control system. 3,057,557, 10–9–62, Cl. 236—38.
Guziak, Leonard F.: *See*—
Fryling, Charles F., and Guziak. 3,058,947.
Ingram, Alvin R., and Guziak. 3,037,958.
Guzskie, Stanley, C. J. Holpuch, and M. Marks, to Admiral Corp. Control circuit. 3,033,930, 5–8–62, Cl. 179—1.
Guzzetta, Giuseppe: *See*—
Musso, Pompilio, and Guzzetta. 3,069,041.
Gwinn, Joseph M., Jr.: *See*—
Coleman, Gerald W., and Gwinn. 3,044,644.
Gwinn, Joseph M., Jr., A. J. O'Brien, and W. R. Shireman, to Gar Wood Industries, Inc. Front-mounted power control unit for bulldozer. 3,031,779, 5–1–62, Cl. 37—144.
Gwinn, Mabel C.: *See*—
Thomas, Betty S., and Gwinn. 3,033,420.
Gwinnett, Edwin A.: *See*—
Tuplin, William A., Gwinnett, and Jenkins. 3,066,917.
Gwozdz, Eugene: *See*—
Poarch, Arthur E., and Gwozdz. 3,050,400.
Gwynn, Marion H. Hydrofining and catalyst regeneration process. 3,019,181, 1–30–62, Cl. 208—217.
Gwynne, George R., to Douglas Aircraft Co., Inc. Honeycomb structure machine. 3,035,952, 5–22–62, Cl. 156—512.
Gwynne, Jay H., to Consolidation Coal Co. Apparatus for and method of segregating material by specific gravity. 3,051,310, 8–28–62, Cl. 209—172.5.
Gwynne, Ralph W. Hair trimmer head. 3,032,875, 5–8–62, Cl. 30—200.
Gygax, Ernest F., to Universal Match Corp. Devices for producing air screens. 3,021,775, 2–20–62, Cl. 98—36.
Gylling & Co., Aktiebolaget: *See*—
Mindermann, Kurt H. 3,045,074.
Gynt, Sven, to Allmanna Svenska Elektriska Aktiebolaget. Rotor spider for electrical machines. 3,046,426, 7–24–62, Cl. 310—267.
Gyoerkoes, Tibor, to Celanese Corp. of America. Extractive distillation of hexanol with a polyhydric alcohol as a solvent. 3,048,527, 8–7–62, Cl. 202—39.5.
Gyorfy, Julius. Protective helmet. 3,026,525, 3–27–62, Cl. 2—8.
Gyorgy, Ernst M., and H. E. D. Scovil, to Bell Telephone Laboratories, Inc. Method of suppressing saturation effects in gyromagnetic devices. 3,051,917, 8–28–62, Cl. 333—31.
Gyorgy, Ernst M., and E. A. Nesbitt, to Bell Telephone Laboratories, Inc. Permalloy with gold additions. 3,067,-029, 12–4–62, Cl. 75—170.
Gyreacta Transmission Ltd.: *See*—
Clerk, Robert C. 3,037,574.
Gyromat Corp., The: *See*—
Wiggins, Richard F., Maltas, and Gann. 3,017,009.
Wiggins, Richard F., Maltas, and Ullman. 3,017,010.
Gysi, Gebruder, A. G.: *See*—
Michel, Kaspar. 3,016,801.
Gysin, Hans, E. Knüsli, and J. Rumpf, to J. R. Geigy A.-G. New condensation products derived from tetrameric cyanogen halides. 3,053,843, 9–11–62, Cl. 260—249.5.
Gysler, Ervin S. Cultivator clamp. 3,031,019, 4–24–62, Cl. 172—710.
Gzemski, Felix C., and R. C. Taylor, to The Atlantic Refining Co. Process for preparing synthetic rubber-asphalt compositions prepared thereby. 3,041,299, 6–26–62, Cl. 260—28.5.
H-B Mfg. Co.: *See*—
Baird, William G., and Hrach. 3,018,505.
HEK Mfg. Co.: *See*—
Ennor, Paul L. 3,056,205.
H. & L. Tooth Co.: *See*—
Launder, Ernie L. 3,016,253.
Launder, Richard L. 3,020,655.
H.M.S. Associates, Inc.: *See*—
Mackey, Andrey V. 3,055,212.
HRB-Singer, Inc.: *See*—
Eiland, Phillip F., Jr. 3,069,906.
Eiland, Phillip F., Jr., and McGinley. 3,043,142.
Knausenberger, Georg E. 3,040,313.
Krueger, Donald. 3,018,566.
Laughlin, Robert D. 3,025,396.
Thompson, Fred C. 3,064,204.
H_2 Oil Engineering Corp.: *See*—
May, Russell D. 3,040,499.
Haack, Erich: *See*—
Achelis, Johann D., Gall, Haack, and Voemel. 3,028,382.
Achelis, Johann D., Gall, Haack, and Voemel. 3,044,936.
Braun, Franz, and Haack. 3,026,328.
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Haag, Theodore T., to Borroughs Mfg. Co. Storage cabinet. 3,023,068, 2–27–62, Cl. 312—263.
Haage, Konrad: *See*—
Lang, Anton, Glehr, and Haage. 3,027,883.
Haagen, Karl, to Farbenfabriken Bayer Aktiengesellschaft. Method of removing oxygen dissolved in water by means of anion exchange resins. 3,051,651, 8–28–62, Cl. 210—32.
Haagen-Smit, Jan W.: *See*—
Greene, Malbone W., and Haagen-Smit. 3,026,472.
Wilson, Ray L., Greene, and Haagen-Smit. 3,028,317.
Wilson, Ray L., and Haagen-Smit. 3,042,495.
Haake, Claus H.: *See*—
Lehmann, Willi, and Haake. 3,048,732.
Haake, Frederick L. Separable connector. 3,066,970, 12–4–62, Cl. 294—83.
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Haarer, Erich: *See*—
Baumeister, Wilhelm, Gaeth, Haarer, and Schwarz. 3,044,901.
Haas, Charles B. Magnetic minesweeping equipment. 3,016,-868, 1–16–62, Cl. 114—235.
Haas, Charles W., Jr., to Bell Telephone Laboratories, Inc. Ring counter-pulse distributor using a single two-state device per stage and a source of phase-opposed alternating voltages for driving common push-pull lines. 3,047,738, 7–31–62, Cl. 307—88.5.
Haas, Edward W.: *See*—
Wolfe, H. Hix, and Haas. 3,025,800.
Haas, Gerhard J., and A. I. Fleischman. Process of preventing precipitation in malt beverages and product. 3,052,-547, 9–4–62, Cl. 99—48.
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Haas, Helmut: *See*—
Pieplow, Hans W., Haas, and Harnisch. 3,035,786.
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Haas, Karl, and S. Voll, to Siemens-Schuckertwerke Aktiengesellschaft. Shaft bushing for explosion-proof electrical machines. 3,021,147, 2–13–62, Cl. 277—53.
Haas, Kurt: *See*—
Hofstetter, Ernst, and Haas. 3,015,725.
Haas, Otto R., to United Shoe Machinery Corp. Seams, shoes and methods of making same incorporating flat lasted work. 3,034,463, 5–15–62, Cl. 112—262.
Haas, Willard, and M. A. Fuller, to The B. F. Goodrich Co. Method and apparatus for manufacturing hose. 3,037,343, 6–5–62, Cl. 57—9.
Haase, Carl F.: *See*—
Frei, John, and Haase. 3,018,122.
Haase, Elmer A., T. W. Nobles, A. P. Schnaible, and H. L. McCombs, Jr., to The Bendix Corp. Normal and emergency fuel control system for gas turbine engines. 3,023,-575, 3–6–62, Cl. 60—39.28.
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Haban, Frank : *See*—
Buchholz, Arnold, Haban, and Weeks. 3,016,191.
Buchholz, Arnold R., and Haban. 3,020,916.
Buchholz, Arnold R., Haban, and Weeks. 3,026,982.
Haber, Harold E., and R. M. Clinehens, to The National Cash Register Co. Magnetic data storage device. 3,031,648, 4–24–62, Cl. 340—174.
Haber, Richard : *See*—
Geary, Robert J., and Haber. 3,038,794.
Haber, Robert J. : *See*—
Daniels, Charles J., and Haber. 3,028,127.
Haber, Robert J., to All American Engineering Co. Arresting gear retrieve system. 3,020,010, 2–6–62, Cl. 244—110.
Haberkorn, Otto, to Walther Büromaschinen Gesellschaft m.b.H. Totalizer control mechanism for adding and calculating machines. 3,026,026, 3–20–62, Cl. 235—60.
Haberland, Ernest R., to Hughes Aircraft Co. Electrical connector. 3,038,140, 6–5–62, Cl. 339—61.
Haberland, Fred C. : *See*—
Anderson, J Edward C., and Haberland. 3,026,809.
Haberland, Hans : *See*—
Von Halkai, Bela, Haberland, Reichle, and Stroh. 3,036,048.
Wegner, Christian, Hess, and Haberland. 3,026,333.
Haberlin, Hans P., to Erwin Buhrer. Dowel guide with plastic filler material. 3,015,864, 1–9–62, Cl. 22—110.
Habermaas, Otto H., and O. Hoppmann, to Beteiligungs- und Patentverwaltungsgesellschaft mit beschrankter Haftung. Rotatable arrangement, especially for dredges. 3,020,107, 2–6–62, Cl. 308—203.
Habermann, Ewald : *See*—
Bernhardt, Eugen, and Habermann. 3,028,782.
Habernickel, Valentin, to Henkel & Cie. G.m.b.H. Stable peroxide containing phosphates. 3,035,897, 5–22–62, Cl. 23—107.
Habernickel, Valentin, and F. Weldes, to Henkel & Cie, G.m.b.H. Process for the production of anhydrous boron compounds containing active oxygen. 3,024,085, 3–6–62, Cl. 23—59.
Haberstroh, Otto : *See*—
Nawrath, Günter, Schnegg, and Haberstroh. 3,015,480.
Haberstump, Alfred H., to Haberstump-Harris Inc. Element arranging and delivering device. 3,026,000, 3–20–62, Cl. 221—10.
Haberstump, Alfred H., to Haberstump-Harris, Inc. Force applying tool. 3,037,208, 6–5–62, Cl. 1—220.
Haberstump-Harris Inc. : *See*—
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Habib, Austin G. : *See*—
Sirois, Lionel J., Mote, and Habib. 3,031,384.
Habib, Emile E., to Deering Milliken Research Corp. Textile sizing composition applicating method and resulting product. 3,044,898, 7–17–62, Cl. 117—76.
Habicht, Ernst, and G. Meinas. Material handling system. 3,025,996, 3–20–62, Cl. 220—94.
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Lamin, Leonard, and Habisohn. 3,056,856.
Habisohn, Victor J., to International Telephone and Telegraph Corp. Rejuvenating timer. 3,060,331, 10–23–62, Cl. 307—88.5.
Hablutzel, Emil, and J. L. Haeusermann, to Maschinenfabrik Benninger A.-G. Apparatus for treating ribbon and rope-shaped goods with a treating fluid. 3,058,327, 10–16–62, Cl. 68—5.
Haboush, Edward J. Hip joint prosthesis. 3,067,740, 12–11–62, Cl. 128—92.
Habra-Werk, Wilhelm F. Ott : *See*—
Danielzig, Karl-Heinz. 3,041,941.
Neuendorf, Gunter, and Reil. 3,028,796.
Hach, Ralph J. : *See*—
Edwards, Edwin D., and Hach. 3,019,731.
Hach, William : *See*—
Paschall, Eugene F., Katzbeck, and Hach. 3,068,124.
Hachenberg, Edmund, to A. H. Schutte. Supervising device for hydraulic adjusting apparatus in automatic lathes. 3,034,309, 5–15–62, Cl. 60—54.5.
Hachmann, Hans. Wind power plant. 3,032,119, 5–1–62, Cl. 170—38.
Hachmuth, Karl H., to Phillips Petroleum Co. Isoprene separation. 3,038,016, 6–5–62, Cl. 260—681.5.
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Hack, Heinrich, and G. Jungke, to Carl Schenck Maschinenfabrik G.m.b.H. Control device for unbalance-correcting machining of rotating workpieces. 3,037,403, 6–5–62, Cl. 77—5.
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Hack, Walter L., to Western Gold and Platinum Co. Method of brazing. 3,056,195, 10–2–62, Cl. 29—475.
Hackbart, Reuben J., and E. T. Neubauer, to The Trane Co. Three cylinder compressor. 3,065,902, 11–27–62, Cl. 230—187.
Hackbarth, Russell R. : *See*—
Defandorf, John L., Hackbarth, Kraus, and Sywulka. 3,066,244.
Hacker, David P. : *See*—
Jackson, Charles I., and Hacker. 3,037,738.
Hacker, Elmer W. : *See*—
Strong, Richard V. D., Hamilton, and Hacker. 3,022,619.
Hacker, Frederick W., to A. O. Smith Harvestore Products, Inc. Joint construction for conveyor housing. 3,016,128, 1–9–62, Cl. 198—213.
Hacker, Frederick W., to A. O. Smith Harvestore Products, Inc. Bunk feeder control mechanism. 3,029,791, 4–17–62, Cl. 119—52.
Hacker, Kurt, and E. Köhl, to Fortuna-Werke Spezialmaschinenfabrik A.G. Suction stripping duct arrangement for transporting rollers. 3,028,742, 4–10–62, Cl. 69—10.
Häcker, Walter E., to Daimler-Benz Aktiengesellschaft. Window actuating mechanism. 3,024,061, 3–6–62, Cl. 296—44.
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Lehnert, Guenther. 3,023,300.
Hackett, James W., E. M. Henry, and J. M. McCormick, to Owens-Illinois Glass Co. Face plate for supporting color-control elements in cathode-ray tubes. 3,030,536, 4–17–62, Cl. 313—80.
Hackett, Kenneth R. : *See*—
Gray, Edward E., Hackett, and McFarland. 3,031,774.
Hackett, Theodore N. : *See*—
Schwartz, Daniel M., and Hackett. 3,034,820.
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Hackett, Theodore N., J. E. Raven, and D. M. Schwartz, to The Elmco Corp. Material handling device. 3,034,821, 5–15–62, Cl. 294—88.
Hackett, Theodore N., and O. Puhlmann, to The Elmco Corp. Implement position control and indicator means. 3,045,845, 7–24–62, Cl. 214—140.
Hackett, William S., to General Motors Corp. Mold test apparatus. 3,057,182, 10–9–62, Cl. 73—15.6.
Hachhel, Robert H., and W. Sacks, to Union Carbide Corp. Fog resistant polyolefin films. 3,048,265, 8–7–62, Cl. 206—45.34.
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Hacklander, Hans, to The Singer Mfg. Co. Ruffling mechanisms for sewing machines. 3,018,744, 1–30–62, Cl. 112—132.
Hacklander, Hans, to The Singer Mfg. Co. Lubricant cooling means for sewing machines. 3,031,991, 5–1–62, Cl. 112—256.
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Hackman, Amos W., and C. H. Jacobson, to Tuttle Electric Products, Inc. Split strap supporting means for electrical insulators. 3,016,441, 1–9–62, Cl. 219—19.
Hackman, Russell F. : *See*—
Schneider, Louis J., and Hackman. 3,034,317.
Hackney, Robert F. : *See*—
Bryant, Clifford A., Hackney, and Payne. 3,026,830.
Hackney, Stanley, to United Kingdom Atomic Energy Authority. Nuclear reactor moderator structures. 3,020,226, 2–6–62, Cl. 204—193.2.
Haddad, Charles, to Ford Motor Co. Motor vehicle air suspension system. 3,037,788, 6–5–62, Cl. 280—124.
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Haddad, Nassib : *See*—
Foster, Boutwell H., and Haddad. 3,015,149.

Haddad, Nassib, to United States Rubber Co. Spacer fabrics and method of making them. 3,015,148, 1–2–62, Cl. 28—72.
Haddad, Salomon J., to Carolina Knitting Machine Corp. Knitting methods and means and product formed thereby. 3,054,278, 9–18–62, Cl. 66—8.
Hadden, Robert L. Convertible trailer. 3,016,268, 1–9–62, Cl. 298—17.
Haddix, Bud F. Grain drier. 3,057,080, 10–9–62, Cl. 34—174.
Hadekel, Ruben: *See*—
Summerlin, Frederick A., and Hadekel. 3,020,889.
Haden, Walter L., Jr.: *See*—
Robinson, Alfred J., and Haden. 3,039,973.
Haden, Walter L., Jr., to Minerals & Chemicals Philipp Corp. Smoking preparation containing laminar alumina and smoking unit containing same. 3,050,421, 8–21–62, Cl. 131—17.
Haden, Walter L., Jr., and F. J. Dzierzanowski, to Minerals & Chemicals Philipp Corp. Synthetic crystalline zeolite produced from dehydrated aluminum silicate. 3,065,054, 11–20–62, Cl. 23—112.
Hadfield, Harry R., R. H. Ricketts, J. Simons, and W. E. Stephen, to Imperial Chemical Industries Ltd. New colouration process. 3,042,477, 7–3–62, Cl. 8—55.
Hadfields Ltd.: *See*—
Stevenson, Harry, and Pease. 3,034,811.
Hadley, B. H.: *See*—
Adler, Paul W. 3,026,804.
Adler, Paul W. 3,027,694.
Hadley, David J.: *See*—
Bennett, John B., Bream, Hadley, and Wood. 3,056,845.
Gasson, Edward J., Hadley, and Wood. 3,031,500.
Hadley, David J., and J. B. Bream, to The Distillers Co. Ltd. Purification of acrylonitrile. 3,051,630, 8–28–62, Cl. 202—71.
Hadley, Howard C., to Deere & Co. Corn husker. 3,049,127, 8–14–62, Cl. 130—5.
Hadley, John, to The General Electric Co. Ltd. Apparatus for measuring the frequency of electric waves. 3,039,054, 6–12–62, Cl. 324—82.
Hadlock, Clarence S., to DynaCo Mfg., Inc. Automotive vehicle. 3,043,774, 7–24–62, Cl. 180—51.
Hadnagy, Thomas D. Machine for manufacturing merchandise-supporting pallets or platforms. 3,046,558, 7–31–62, Cl. 1—30.
Hadsel, Jack L.: *See*—
Edmonds, Harvey A., and Hadsel. 3,039,593.
Hadzekyriakides, Nicholas S.: *See*—
Symes, William F., and Hadzekyriakides. 3,035,054.
Symes, William F., and Hadzekyriakides. 3,035,057.
Haeber, John A.: *See*—
Ashe, Robert E., Haeber, Newman, and Otteman. 3,041,090.
Bauer, Richard J., Haeber, Otteman, and Perner. 3,064,735
Haeber, John A., to Shell Oil Co. Apparatus for cementing well casing. 3,050,129, 8–21–62, Cl. 166—129.
Haeber, John A., to Shell Oil Co. Underwater dual tubing well completion. 3,062,288, 11–6–62, Cl. 166—46.
Haeber, John A., N. B. Newman, and L. G. Otteman, to Shell Oil Co. Method and apparatus for cementing underwater wells. 3,050,117, 8–21–62, Cl. 166—21.
Haecker, Ernest. Game board package. 3,036,705, 5–29–62, Cl. 206—78.
Haede, Werner: *See*—
Ruschig, Heinrich, Haede, and Fritsch. 3,028,400.
Haede, Werner, L. Middendorf, and W. Fritsch, to Farbwerke Hoeschst Aktiengesellschaft vormals Lucius & Brüning. 12-hydroxysteroic acid esters of 21-hydroxy steroids of the pregnane series. 3,059,001, 10–16–62, Cl. 260—397.45.
Haedike, Edward J., to Mid-Continent Metal Products Co. Incinerator burner control. 3,027,853, 4–3–62, Cl. 110—8.
Haefele, John W., to The Procter & Gamble Co. Hair control composition. 3,068,151, 12–11–62, Cl. 167—87.1.
Haefiger, William W.: *See*—
Crownover, Joseph W. 3,035,126.
Haefiger, William W. Chain saw guide bar. 3,066,708, 12–4–62, Cl. 143—32.
Haefner, Albert J., and F. Conrad, to Ethyl Corp. Manufacture of 1,1,1-trichloroethane. 3,019,175, 1–30–62, Cl. 204—163.
Haefner, Arthur E., to Conax Corp. Electrically fired detonator. 3,059,576, 10–23–62, Cl. 102—28.
Haegele, Rowland W., O. Heil, and C. H. Turnblom, to Eitel-McCullough, Inc. Reflex klystron. 3,043,985, 7–10–62, Cl. 315—5.21.
Haegele, Rowland W., and J. W. McLaughlin, to Eitel-McCullough, Inc. Tunable resonant cavity. 3,045,146, 7–17–62, Cl. 315—5.21.
Haegh, Jan E.: *See*—
Andersen, Wilhelm A., and Haegh. 3,016,482.
Haendeler, Walter, to Schloemann Aktiengesellschaft. Cooling of extruded products. 3,040,884, 6–26–62, Cl. 207—16.
Haenky, Norman H. and V. J. Combination valve. 3,068,903, 12–18–62, Cl. 137—630.22.
Haenky, Victor J.: *See*—
Haenky, Norman H. and V. J. 3,068,903.
Haensch, Paul, to Aeroquip G.m.b.H. Axial seal for rotary shafts or the like. 3,061,320, 10–30–62, Cl. 277—142.
Haensel, Vladimir: *See*—
Donaldson, George R., and Haensel. 3,054,833.
Haentjens, Walter D. Sinking pump. 3,066,612, 12–4–62, Cl. 103—111.
Haerr, Roger S., to North American Aviation, Inc. Method for precision forming. 3,025,905, 3–20–62, Cl. 153—32.
Haertel, Otto: *See*—
Adloff, Jakob A., Haertel, and Riehl. 3,053,366.
Haerther, Lester W., and H. I. Walker, to Collins Radio Co. Aircraft approach horizon instrument. 3,019,532, 2–6–62, Cl. 33—204.
Haerther, William W., Jr., to Hawley Products Co. Acoustical devices. 3,032,138, 5–1–62, Cl. 181—32.
Haettinger, George C.: *See*—
Poorman, Richard M., Haettinger, and O'Connell. 3,066,222.
Haettinger, George C., and R. M. Poorman, to Union Carbide Corp. Cryogenic storage container. 3,059,114, 10–16–62, Cl. 250—83.3.
Haeusermann, Jakob L.: *See*—
Haeussermann, Emil and Haeusermann. 3,058,327.
Haeussermann, Walter, to United States of America, Army. Space vehicle attitude control mechanism. 3,017,777, 1–23–62, Cl. 74—5.
Haff, Frederick, Jr., to G. Braf Co., Inc. Pressure roller. 3,069,058, 12–18–62, Cl. 226—187.
Hafler, David. Pre-amplifier. 3,059,190, 10–16–62, Cl. 330—92.
Häfliger, Franz: *See*—
Denss, Rolf, Girod, and Hafliger. 3,031,465.
Eugster, Conrad H., Denss, Häfliger, and Girod. 3,024,252.
Eugster, Conrad H., Denss, Hafliger, and Girod. 3,041,355.
Pfister, Rudolf, and Häfliger. 3,025,299.
Hafner, Manfred: *See*—
Huband, Leonard W., and Hafner. 3,039,058.
Hafner, Raoul, to Bristol Aircraft Ltd. Aircraft arranged for vertical take-off and landing. 3,032,295, 5–1–62, Cl. 244—53.
Hafner, William F., C. W. Leach, and T. W. Smeal, to United States Steel Corp. Method of preparing improved wood preservative from coal tar creosote. 3,046,217, 7–24–62, Cl. 208—.
Hafner, William J.: *See*—
Cork, Gordon H., and Hafner. 3,069,111.
Hafstad, Carl E. Friction latch mechanism. 3,037,801, 6–5–62, Cl. 292—76.
Hafstad, Lawrence R.: *See*—
Henderson, Joseph E., Hafstad, and Roberts. 3,064,578.
Haftke, Jozef J.: *See*—
Wierzbicki, Alexander, and Haftke. 3,036,812.
Hagaman, Boynton G., to Antenna Systems, Inc. Horn antenna having reduced length. 3,068,478, 12–11–62, Cl. 343—756.
Hagan, Albert W., to Roy S. Sanford & Co. Carton. 3,040,958, 6–26–62, Cl. 229—37.
Hagan Chemicals & Controls, Inc.: *See*—
Gill, Joseph, and Sippach. 3,019,416.
Harkins, Robert E., and Straight. 3,047,647.
Hatch, George B. 3,022,133.
Hronas, John J. 3,066,095.
Hronas, John J., and Roland. 3,045,872.
Liddell, Robert W. 3,043,772.
Lindner, Kurt. 3,037,838.
Lintner, Anthony E. 3,058,917.
Luppold, Robert H., Jr. 3,046,461.
Mahon, John H. 3,036,923.
Rice, Owen, and Stough. 3,050,144.
Rudy, Hermann, and Schuster. 3,055,726.
Stough, Donald M., and Luppold. 3,053,083.
Swartz, William E. 3,043,208.
Swartz, William E. 3,057,420.
Williams, Ray S. 3,037,585.
Hagan, James J.: *See*—
Young, Frank B., Hagan, and Easterbrooks. 3,023,143.
Hagan, James J., F. B. Ablondi, and R. E. Clarke, to American Cyanamid Co. Methods for purifying plasminogen. 3,066,079, 11–27–62, Cl. 195—66.
Hagan, Lamont: *See*—
Celentano, Vincent D., and Hagan. 3,044,897.
Hagan, Thomas G.: *See*—
Young, Frink M., and Hagan. 3,052,880.
Hagan, William K: *See*—
Byrd, Clarence G., and Hagan. 3,061,795.
Hagberg, Carl S, O. Method of analysing cereals and other starch-containing substances and products thereof. 3,049,006, 8–14–62, Cl. 73—169.
Hagberg, Hugo E., to Carling Electric, Inc. Momentary switches. 3,016,439, 1–9–62, Cl. 200—159.
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Graham, Richard P., and Hage. 3,039,410.
Hagedorn, Erwin C., to Owens-Illinois Glass Co. Method of making colored glass. 3,024,121, 3–6–62, Cl. 106—52.
Hagedorn, Erwin C., to Owens-Illinois Glass Co. Glass composition having high chemical durability. 3,054,686, 9–18–62, Cl. 106—54.
Hagedorn, Floyd T.: *See*—
Laine, Leslie H., and Hagedorn. 3,023,543.
Hagel, Raymond J. Artificial fish lure. 3,059,372, 10–23–62, Cl. 43—42.09.
Hagelbarger, David W., to Bell Telephone Laboratories, Inc. Accumulator. 3,052,413, 9–4–62, Cl. 235—176.

Hägele, Gustav, W. Meyer, and F. Johannsen, to Dr. Kurt Herberts & Co. vorm Otto Louis Herberts. New additional polymers from monomeric vinyl compounds and unsaturated cross-linked polyester resins and a process for preparing the same. 3,044,978, 7–17–62, Cl. 260—45.4.

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Hageline, Emil E.: *See*—
Du Broff, Warren, Hageline, and Barski. 3,055,478.

Hageman, Howard A., to United States Rubber Co. N,N-di(2,2,2-trinitroethyl) ethylene urea and method of production. 3,035,062, 5–15–62, Cl. 260—309.7.

Hageman, Howard A., to United States Rubber Co. 1-nitro-3-(2,2,2-trinitroethyl) guanidine and method of preparation. 3,035,094, 5–15–62, Cl. 260—564.

Hageman, Howard A., to United States Rubber Co. (2,2,2-trinitroethyl)-2-nitramino-2-imidazoline. 3,043,848, 7–10–62, Cl. 260—309.6.

Hageman, Howard A., to United States Rubber Co. Trinitromethyl-2,4-dinitrophenyl sulfide. 3,045,052, 7–17–62, Cl. 260—609.

Hageman, James R. Drafting instrument. 3,061,933, 11–6–62, Cl. 33—104.

Hagemann, Guy: *See*—
Penau, Henry, and Hagemann. 3,042,581.

Hagemann, Guy, G. Nomine, L. Penasse, and J. Teillon, to Roussel UCLAF, S.A. Fungicidal compound and process of making same. 3,052,605, 9–4–62, Cl. 167—65.

Hagemann, Julius. Automatic stabilization of objects suspended from an unstable platform. 3,030,050, 4–17–62, Cl. 244—3.

Hagemeyer, Hugh J., Jr.: *See*—
Bloyd, Alden E., Hull, and Hagemeyer. 3,062,872.

Hagemeyer, Hugh J., Jr., to Eastman Kodak Co. Linear polyesters of dimethylmalonic acid and neopentyl glycol. 3,043,-808, 7–10–62, Cl. 260—75.

Hagemeyer, Hugh J., Jr., and M. B. Edwards, to Eastman Kodak Co. Polymerization of olefins with a catalyst slurry preactivated with ethylene. 3,067,183, 12–4–62, Cl. 260—88.2.

Hagen, Glenn E., to General Instrument Corp. Intercoupling apparatus. 3,017,074, 1–16–62, Cl. 234—23.

Hagen, Gustav: *See*—
Himmelheber, Max, Hagen, and Froede. 3,023,136.

Hagen, Kenneth R., to Morton Salt Co. Dispensing apparatus. 3,036,746, 5–29–62, Cl. 222—480.

Hagen, Norbert, to R. Hagen. Process and apparatus for manufacturing blown articles. 3,050,773, 8–28–62, Cl. 18—19.

Hagen, Reinold: *See*—
Hagen, Norbert. 3,050,773.

Hagen, Robert A.: *See*—
Auer, John H., Jr., Bolton, Kendall, and Hagen. 3,046,-544.
De Kramer, Isaac A., and Hagen. 3,046,364.

Hagen, Robert W., to Heliflow Corp. Vapor jet refrigeration unit. 3,033,006, 5–8–62, Cl. 62—170.

Hagenah, Klaus, and O. Peters, to Hauni-Werke Korber & Co. K.G. Cigar making machines. 3,028,865, 4–10–62, Cl. 131—21.

Hagenbook, Loy D.: *See*—
Beck, William R., and Hagenbook. 3,053,404.

Hagendoorn, Willem J., to American Air Filter Co., Inc. Filter loading apparatus. 3,055,277, 9–25–62, Cl. 93—84.

Hagendoorn, Willem J., to American Air Filter Co., Inc. Air filter apparatus. 3,063,222, 11–13–62, Cl. 55—354.

Hagenmeyer, Hugh J., Jr., V. K. Park, and M. B. Edwards, to Eastman Kodak Co. Catalysts containing alkali metal salts for olefin polymerization. 3,026,312, 3–20–62, Cl. 260—93.7.

Hagenson, Leo J., to Rolite, Inc. Collapsible and expanding house trailer. 3,024,059, 3–6–62, Cl. 296—23.

Hagenuaer, Rudolph, and J. G. Geraci. Cloth moving device. 3,032,210, 5–1–62, Cl. 214—1.7.

Hager, Clarence H.: *See*—
Bandhuin, Francis J., Heiss, Jensen, and Hager. 3,029,-847.

Hager, Gerald L.: *See*—
Cybriwsky, Alexander, and Hager. 3,016,293.

Hager, Guy Y., to Westinghouse Electric Corp. Expulsion lightning arrester. 3,040,203, 6–19–62, Cl. 313—231.

Hager, Karl F., and M. Rosenthal, to United States of America, Army. Abietic acid and salts as inhibitors. 3,068,081, 12–11–62, Cl. 44—53.

Hager, Nathaniel E., Jr., to Armstrong Cork Co. Apparatus for measuring thermal conductivity. 3,045,473, 7–24–62, Cl. 73—15.

Hager, Onslow B., and R. A. Martin, to Alco Chemical Corp. Textile materials with ravel resistance acrylic tetra polymer and textiles coated with same. 3,070,561, 12–25–62, Cl. 260—29.6.

Hager, Robert E.: *See*—
Daniels, John F., and Hager. 3,031,949.

Hager, Robert E., to Westinghouse Air Brake Co. Data display indicator. 3,046,542, 7–24–62, Cl. 340—347.

Hager, Robert R., to The Bendix Corp. Pneumatic servomotor unit. 3,023,053, 2–27–62, Cl. 303—7.

Hager, Robert R., to The Bendix Corp. Compensating means for master cylinders. 3,040,534, 6–26–62, Cl. 60—54.6.

Hager, Robert R., to The Bendix Corp. Fluid pressure motor construction. 3,053,235, 9–11–62, Cl. 121—48.

Hager, Robert R., to The Bendix Corp. Ball compensator for hydraulic safety diaphragm. 3,064,429, 11–20–62, Cl. 60—54.5.

Hager, Wilhelm: *See*—
Hofmann, Rudolf, and Hager. 3,026,167.

Hagerborg, John G., to FMC Corp. Injection molding machine. 3,049,757, 8–21–62, Cl. 18—30.

Hagerty, John P. Chamber for expending consumable charges and charging apparatus therefor. 3,043,105, 7–10–62, Cl. 60—39.47.

Hagerty, Sidney E.: *See*—
Swarts, John H., and Hagerty. 3,069,764.

Hagg, Arthur C., and B. Cametti, to Westinghouse Electric Corp. Dynamoelectric machine. 3,017,072, 1–16–62, Cl. 230—118.

Hagg, Arthur C., and R. D. Heitchue, Sr., to Westinghouse Electric Corp. Resilient support system for vertical axis motor compressor unit. 3,058,705, 10–16–62, Cl. 248—20.

Haggadone, L. V., to Free-Roll Tester Corp. Wheel friction indicator. 3,033,018, 5–8–62, Cl. 73—9.

Haggard, John M.: *See*—
McMurray, Paul H., and Haggard. 3,042,000.

Haggard, John M., and P. A. McMurray, to A. O. Smith Harvestore Products, Inc. Automatic animal feeder. 3,028,838, 4–10–62, Cl. 119—52.

Haggard & Marcusson Co.: *See*—
Sark, Ward T. 3,051,689.

Hagge, Walter, G. Matthaess, and M. Quaedvlieg, to Farbenfabriken Bayer Aktiengesellschaft. Preparation of ester salts of sugars di and trisaccharides. 3,024,229, 3–6–62, Cl. 260—234.

Hagge, Walter, M. Quaedvlieg, and H. Seifert, to Bayer Aktiengesellschaft, Farbenfabriken. Anion exchange resins cross-linked with hexahydro-triacrylyl triazines. 3,038,866, 6–12–62, Cl. 260—2.1.

Hagge, Walter, J. Dusing, J. Kolbe, to Bayer Aktiengesellschaft, Farbenfabriken. Dispersing and demulsifying compositions. 3,058,919, 10–16–62, Cl. 252—336.

Hagge, Walter, H. Krause, M. Quaedvlieg, A. Schlachter, and K. Schönol, to Farbenfabriken Bayer Aktiengesellschaft. Process for preventing electrostatic charges on synthetic high polymers. 3,065,110, 11–20–62, Cl. 117—138.8.

Haggerty, James D. Floating support. 3,021,536, 2–20–62, Cl. 9—11.

Haggerty, Thomas I.: *See*—
Bethe, Eugene J., and Haggerty. 3,033,804.

Haggerty, William A.: *See*—
Ernst, Hans, Haggerty, and Ritter. 3,037,329.

Hagler, Duran L., and M. L. Kasbohm, to Union Carbide Corp. Method and apparatus for controlling periodically reversed heat transfer devices. 3,022,635, 2–27–62, Cl. 62—21.

Hagner, George R.: *See*—
Vinson, Paul, and Hagner. 3,070,686.

Hagopian, Jacob J.: *See*—
Johnson, Reynold B., and Hagopian. 3,018,332.

Hagopian, Jacob J., to International Business Machines Corp. Magnetic record disc with gas-supported transducer. 3,037,-205, 5–29–62, Cl. 346—74.

Hagopian, Jacob J., to International Business Machines Corp. Magnetic recording and reproducing system. 3,058,100, 10–9–62, Cl. 340—174.1.

Hagopian, Jacob J. Game card. 3,068,010, 12–11–62, Cl. 273—152.1.

Hagström, Nils A., and B. P. Björnson, to Sandviken Jernverks Aktiebolag. Apparatus for drilling mutually intersecting parallel holes. 3,059,977, 10–23–62, Cl. 308—3.

Hagström, Nils G. A., to Sandvikens Jernverks Aktiebolag. Cutting insert for percussion drill bits. 3,034,589, 5–15–62, Cl. 175—410.

Hague, Harry W.: *See*—
Breza, Carril J., Hague, v. d. Luft, and Swed. 3,062,142.

Hague, Rudolph P. Hobby-horse. 3,027,171, 3–27–62, Cl. 280—1.183.

Hague, Wilmer W., and G. A. Householder, to Chambersburg Engineering Co. Control system for impact device. 3,043,-271, 7–10–62, Cl. 121—12.

Hahn, Daniel J. Aircraft control surface protector. 3,057,-580, 10–9–62, Cl. 244—1.

Hahn, Erich, to Kamera -und Kinowerke Dresden, VEB. Photographic camera. 3,043,202, 7–10–62, Cl. 95—10.

Hahn, Frank J.: *See*—
Carney, Robert J., and Hahn. 3,069,368.
Carney, Robert J., and Hahn. 3,069,371.

Hahn, Gilbert B.: *See*—
Douglas, Alvin P., and Hahn. 3,044,802.

Hahn, Harold G., to The Dow Chemical Co. Coating of shaped articles. 3,022,198, 2–20–62, Cl. 117—138.8.

Hahn, Harold G., to The Dow Chemical Co. Coating of shaped articles. 3,058,846, 10–16–62, Cl. 117—138.8.

Hahn, Heinrich: *See*—
Jacobi, Ernst, Van Schoor, and Hahan. 3,030,381.

Hahn, Helmut: *See*—
Schurer, Otto, Hahn, and Stähler. 3,020,304.

Hahn, Henry R.: *See*—
Edgerly, Glenn E., Hahn, and Auslender. 3,038,409.

Hahn, Herbert S., to FMC Corp. Multi-cylinder pump. 3,045,-604, 7–24–62, Cl. 103—173.

Hahn, Johann: *See*—
Sauer, Edgar, and Hahn. 3,068,769.
Sauer, Edgar, Wutzler, and Hahn. 3,045,568.

Hahn, John H., and J. F. Quinn, to Monsanto Chemical Co. N-acetyl aminophenol process. 3,042,719, 7–3–62, Cl. 260—562.
Hahn, Oliver M.: *See*—
Bernhardt, Ernest C., Hahn, and Hansen.
Hahn, Robert S., to The Heald Machine Co. Grinding machine. 3,056,238, 10–2–62, Cl. 51—103.
Hahn, Theodor. Piston engines. 3,040,716, 6–26–62, Cl. 121—59.
Hahn, Werner: *See*—
Noack, Rolf, and Hahn. 3,031,939.
Noack, Rolf, and Hahn. 3,037,434.
Weise, Johannes, and Hahn. 3,057,280.
Hahn, Willi: *See*—
Seydel, Robert, Kempermann, Hahn, and Stroh. 3,048,563.
Hahne, Karl H.: *See*—
Raydt, Ulrich, and Hahne. 3,025,946.
Hahnel, Alwin: *See*—
Bettin, Roger R., Hahnel, Harrison, and Schwittek. 3,054,057.
Hähnel, Werner, to Trumpf & Co. Adjustable eccentric. 3,033,055, 5–8–62, Cl. 74—571.
Hahnke, Grace: *See*—
Yahnke, James G., and Boyett. 3,050,416.
Hahs, Walter R., to International Business Machines Corp. Frequency shifting clock. 3,028,552, 4–3–62, Cl. 328—55.
Haidegger, Hans, to Ebauches S.A. Device for sorting and orienting particles. 3,033,337, 5–8–62, Cl. 193—31.
Haidegger, Hans, to S. A. Ebauches. Package of watch parts. 3,061,081, 10–30–62, Cl. 206—18.
Haig, John, and Co. Ltd.: *See*—
Whittam, Albert. 3,031,097.
Haigh, Daniel H.: *See*—
Roberts, Carleton W., and Haigh. 3,043,795.
Roberts, Carleton W., Haigh, Hall, and Lamson. 3,029,217.
Haigh, Henry W., and W. M. Morgan, to American-Marietta Co. Production of bonded cellulose units. 3,019,146, 1–30–62, Cl. 154—45.9.
Haigh, Leslie B., and M. G. Kolmes, to International Telephone and Telegraph Corp. Electric switch. 3,036,182, 5–22–62, Cl. 200—159.
Haigh, Leslie B., M. Bisk, and T. W. Tuttle, to International Telephone and Telegraph Corp. PABX switching system. 3,048,662, 8–7–62, Cl. 179—22.
Haigh, Leslie B., H. F. Herbig, and R. W. Blanchard, to International Telephone and Telegraph Corp. Answering signal detector for a private automatic branch exchange. 3,051,790, 8–28–62, Cl. 179—9.
Haigh, Leslie B., H. F. Herbig, and A. C. Bucarey, to International Telephone and Telegraph Corp. Telephone call completion indicator. 3,069,503, 12–18–62, Cl. 179—9.
Haight, Frank L., to United Aircraft Corp. Tilting rotor head system. 3,050,274, 8–21–62, Cl. 244—7.
Haigis, Russell J., and L. L. Stowell, to The Stanley Works. Non-loading metal-backed abrader and method for its production. 3,042,508, 7–3–62, Cl. 51—295.
Haigler, Edmund D.: *See*—
Boonshaft, Julius C., and Haigler. 3,022,800.
Haile, Finn F. Concrete fence posts. 3,045,977, 7–24–62, Cl. 256—51.
Hailes, William D., to General Railway Signal Co. Vehicle control system. 3,045,112, 7–17–62, Cl. 246—63.
Hailey, Albert M., and G. H. Clarke, to Siemens Edison Swan Ltd. Electrically-operated changing display indicators. 3,016,526, 1–9–62, Cl. 340—324.
Hailey, James G. Thermostatic expansion valve with cut-off. 3,049,893, 8–21–62, Cl. 62—211.
Hailey, Robert R.: *See*—
Dayger, Jonas E., Salani, Hailey, Laurer, and Babel. 3,029,019.
Hailston, Ellis W., and L. E. Huffman, to Remington Arms Co., Inc. Control device for gas operated firearm. 3,020,807, 2–13–62, Cl. 89—193.
Hailston, Ellis W., and R. L. Kelly, to Remington Arms Co., Inc. Compensating device for gas operated firearms. 3,058,400, 10–16–62, Cl. 89—193.
Hailstone, Dudley K., to Survival Equipment Corp. Escape chute. 3,070,203, 12–25–62, Cl. 193—25.
Haimsohn, Jerome N.: *See*—
Davis, Robert G., Haimsohn, and Bashour. 3,025,138.
Hain, Charles M. Nail holder and set device. 3,061,835, 11–6–62, Cl. 1—47.
Hain, David F. Adjustable head-piece. 3,068,487, 12–18–62, Cl. 2—175.
Hain, Kurt, to Arnold & Stolzenberg G.m.b.H. Intermittent chain-and-crank drive with mathematically exact pauses. 3,068,708, 12–18–62, Cl. 74—37.
Haine, Michael E., to Associated Electrical Industries (Woolwich) Ltd. Electrical apparatus for intensifying images. 3,069,551, 12–18–62, Cl. 250—213.
Haine, Michael E., and P. A. Einstein, to Associated Electrical Industries (Manchester) Ltd. Image scanner for electron microscopes. 3,051,860, 8–28–62, Cl. 313—65.
Hainer, William H.: *See*—
Figenshau, James K., and Hainer. 3,053,948.
Haines, Edward M., and C. E. Hughes, to General Electric Co. Heating and cooling apparatus. 3,017,162, 1–16–62, Cl. 257—290.
Haines, Paul G., and H. E. Albert, to Pennsalt Chemicals Corp. Synergistic antioxidant compositions. 3,068,198, 12–11–62, Cl. 260—45.95.
Haines, Robert S., and B. Leland, to International Business Machines Corp. Process for manufacturing cured magnetic tapes utilizing an isocyanate accelerator. 3,049,442, 8–14–62, Cl. 117—119.6.
Haines, Willits P., Jr. Aircraft hanger. 3,034,607, 5–15–62, Cl. 189—1.5.
Hainsworth, Sidney B., and G. E. Watts, to J. H. Fenner & Co. Ltd. Power transmission and conveyor belting. 3,029,166, 4–10–62, Cl. 117—216.
Hainsworth, Thomas E.: *See*—
Abichandani, Krishin P., Krug, Hainsworth, and Story. 3,062,487.
Hainy, Rüdolf: *See*—
Böhm, Siegfried, Hainy, Jürenz, and Jehmlich. 3,034,412.
Hair, Kenneth E. Steam bath apparatus. 3,025,533, 3–20–62, Cl. 4—162.
Hairagain, Inc.: *See*—
Maxwell, Grant H. 3,062,214.
Hairstrate, Inc.: *See*—
Chidrey, Henry M., Jr., and Doty. 3,017,328.
Haiss, Ernst, Eisen-und Metall-KG., Fa.: *See*—
Schmieder, Emil, and Haiss. 3,050,764.
Haiss, Werner: *See*—
Schmieder, Emil, and Haiss. 3,050,764.
Haist, Grant M.: *See*—
King, James R., and Haist. 3,033,765.
Haist, Grant M., and J. R. King, to Eastman Kodak Co. New class of development promoter precursors for dry processing self-developing silver halide coating. 3,041,170, 6–26–62, Cl. 96—66.
Hait, James M., to FMC Corp. Method of pitting fruit. 3,049,795, 6–26–62, Cl. 146—238.
Hait, James M., to FMC Corp. Fluid flow conduits. 3,067,585, 12–11–62, Cl. 61—7.
Hajian, Gabriel, to Textron Electronics, Inc. Vibration exciter amplitude protector. 3,056,910, 10–2–62, Cl. 318—128.
Hajian, Gabriel, to Textron Electronics, Inc. Amplitude limiter employing integrating, clipping and differentiating circuits in series. 3,068,418, 12–11–62, Cl. 328—169.
Hajny, Charles E., to Minnesota Mining and Mfg. Co. Apparatus for converting thermal energy to mechanical energy. 3,038,108, 6–5–62, Cl. 318—129.
Hajny, Charles E., to Penn Controls, Inc. Pilot burner-thermoelectric generator assembly. 3,038,950, 6–12–62, Cl. 136—4.
Hajos, Eugene, to Hydraxtor Co. Method and means for cleaning articles. 3,039,842, 6–19–62, Cl. 8—159.
Hake, Walter T., to Elmer and King Mfg. Co. Machine tool adjusting means. 3,019,672, 2–6–62, Cl. 77—4.
Hakimoglu, Ayhan, to International Business Machines Corp. Transistor voltage regulator. 3,025,451, 3–13–62, Cl. 323—9.
Hakimoglu, Ayhan, to International Business Machines Corp. Magnetic core multivibrator having variable reset means. 3,034,072, 5–8–62, Cl. 331—113.
Hakkaido Tanko Kisen Kabushiki Kaisha: *See*—
Higuchi, Kozo, Tsuyuguchi, Osa, and Ando. 3,030,412.
Hakkarinen, William, to United States of America, Navy. Cup penetrometer. 3,020,963, 2–13–62, Cl. 170—36.
Halbach, Ralph H., to Dorr-Oliver Inc. Centrifuge construction. 3,036,760, 5–29–62, Cl. 233—46.
Halbach, Robert W., to Pepperidge Farm Inc. Toaster biscuit and method of making same. 3,061,441, 10–30–62, Cl. 99—82.
Halbedel, Harold S., and W. B. Field, to The Harshaw Chemical Co. Anhydrous metal fluoborates. 3,018,162, 1–23–62, Cl. 23—59.
Halbeisen, John F., to Chrysler Corp. Air outlet control for an air conditioner. 3,035,421, 5–22–62, Cl. 62—426.
Halbeisen, John F., to Chrysler Corp. Room air conditioner. 3,035,422, 5–22–62, Cl. 62—426.
Halber, Leon H.: *See*—
Lesser, Jack, and Halber. 3,043,037.
Halberg, Robert W.: *See*—
Bellay, Charles W., and Halberg. 3,020,776.
Halberstadt, Charles C., to The Budd Co. Portable welding tool or gun. 3,021,417, 2–13–62, Cl. 219—89.
Halberstadt, Charles C., to The Budd Co. Feeding device, especially for metal stampings. 3,061,118, 10–30–62, Cl 214—8.5.
Halbig, Paul, to Lonza Electric and Chemical Works Ltd. Preparation of aqueous dispersions of polymers. 3,026,306, 3–20–62, Cl. 260—86.3.
Halbig, Paul, and C. Nordmann, to Lonza Electric and Chemical Works Ltd. Spinning polyacrylonitrile filaments and washing the filaments in contact with an absorbent surface. 3,035,884, 5–22–62, Cl. 18—54.
Halbreich, Oscar, to Kem Button Corp. Shank button feeder ejection means. 3,042,255, 7–3–62, Cl. 221—186.
Haldeman, Robert G.: *See*—
Hoffenberg, David S., Haldeman, and Hardy. 3,042,724.
Haldemann, Heinz, to Contraves A.G. Automatic curve sensing system. 3,021,463, 2–13–62, Cl. 318—162.
Halden, Joseph G. B., to Ozalid Co. Ltd. Diazotype and like photo-copying apparatus. 3,020,818, 2–13–62, Cl. 95—89.
Haldex Aktiebolag: *See*—
Carlsson, Hans T. H. 3,029,378.
Hal-Gen Products, Inc.: *See*—
Pfauser, Edward M. 3,063,226.

Hale, Arthur N., to Union Special Machine Co. Stitch length control for sewing machines. 3,015,290, 1–2–62, Cl. 112—210.

Hale, Arthur N., J. N. Covert, and R. W. Volkmann, to Union Special Machine Co. Low mass presser mechanism for sewing machines. 3,044,428, 7–17–62, Cl. 112—235.

Hale, Arthur N., G. T. Nelson, and R. T. Edwards, to Union Special Machine Co. Table stand construction for sewing machines. 3,063,770, 11–13–62, Cl. 312—246.

Hale, Clifford W.: *See*—
Abraham, Edward P., Newton, and Hale. 3,049,541.

Hale, James F., and W. B. Smith, to The Borden Co. Cocoa beverage powder and method of making the same. 3,028,242, 4–3–62, Cl. 99—26.

Hale, James F., and W. B. Smith, to The Borden Co. Miscible malted milk powder. 3,054,675, 9–18–62, Cl. 99—56.

Hale, James R., and R. C. Mauer, to Lockheed Aircraft Corp. Magnetron preamplifier. 3,050,691, 8–21–62, Cl. 330—124.

Hale, John D., and J. B. Rolfe, to Fairbanks, Morse & Co. Magnetic balance indicator. 3,031,021, 4–24–62, Cl. 177—173.

Hale, John K.: *See*—
McCarty, Horace G., and Hale. 3,036,420.

Hale, Lloyd R.: *See*—
Hoyt, Lewis O., and Hale. 3,047,967.

Hale, Mervin P.: *See*—
Bergatt, Robert N., and Hale. 3,043,306.

Hale, Mervin P. Automatic livestock insecticide applicator. 3,046,942, 7–31–62. Cl. 119—157.

Hale, Ralph F., to Joy Mfg. Co. Hydraulic control circuit for a movable vehicle. 3,061,380, 10–30–62, Cl. 303—6.

Hale, Rodney B., to B.P.L. (Instruments) Ltd. Test apparatus for internal combustion engines. 3,035,438, 5–22–62, Cl. 73—116.

Hale, William A. Boiler. 3,050,041, 8–21–62, Cl. 122—367.

Haler, David, to West Pharmaceutical Co. Ltd. Therapeutic substances and compositions. 3,019,222, 1–30–62, Cl. 260—242.

Hales, Ralph A., to Atlas Chemical Industries, Inc. Process for preparing 2,5-bis hydroxymethyl tetrahydrofuran. 3,040,062, 6–19–62, Cl. 260—347.8.

Hales W. M., Co., Inc.: *See*—
Bernardi, Edward P., Sr. 3,031,741.

Haley, Alfred J., Jr.: *See*—
Cohn, Johann G. E., Haley, and Andersen. 3,056,646.

Haley, Dan J., to Da-Mar Industries, Inc. Vehicle axle and suspension assembly. 3,034,625, 9–18–62, Cl. 280—124.

Haley, James C., to United States of America, Air Force. Dynamic analyzer for advanced reconnaissance systems. 3,018,653, 1–30–62, Cl. 73—1.

Haley, James W.: *See*—
Curry, Cecil B., Haley, and Theiler. 3,049,467.

Haley, Robert J.: *See*—
Sadler, James E., and Haley. 3,035,389.

Haley, Theodore G. Box for dispensing sheet material of clinging nature. 3,028,060, 4–3–62, Cl. 225—53.

Haley, William J.: *See*—
Harter, Donald G., Haley, Boehmer, and Jaremus. 3,041,847.

Halfaker, Thomas C., to Day-Brite Lighting, Inc. Lighting fixture leveling support. 3,051,430, 8–28–62, Cl. 248—343.

Halford, Erdest T. Tool for straightening milk cases and the like. 3,055,413, 9–25–62, Cl. 153—32.

Hall, Kullen & Co. Werkzeugburstenfabrik Kullen & Co. G.m.b.H. Wire brush. 3,055,034, 9–25–62, Cl. 15—197.

Halifax Paper Co., Inc.: *See*—
Nolte, David G. 3,029,935.

Halina, Joseph W., to International Telephone and Telegraph Corp. Gain regulation circuit. 3,060,383, 10–23–62, Cl. 329—50.

Hall, Alfred G. W., to Watercraft Ltd. Moulding of boat hulls from synthetic resin bonded glass fibres. 3,025,193, 3–13–62, Cl. 29—469.

Hall, Alfred G. W., to Watercraft Ltd. Hulls of boats formed from synthetic-resin-bonded glass fibre. 3,069,703, 12–25–62, Cl. 9—6.

Hall, Alton B., to White Glove Charcoal, Inc. Preparation of fuel briquettes. 3,026,189, 3–20–62, Cl. 44—16.

Hall, Bertrand J.: *See*—
Pintauro, Nicholas D., and Hall. 3,067,036.

Hall, C. M., Lamp Co.: *See*—
Worden, Norbert P. 3,065,342.

Hall, C. P., Co., The: *See*—
Kuceski, Vincent P. 3,021,348.

Hall, C. P., Co. of Illinois, The: *See*—
Kuceski, Vincent P., and McMillen. 3,059,615.

Hall, Carl D., Jr.: *See*—
Robinson, John J. 3,016,315.

Hall, Christopher H., W. D. Hanvill, and C. L. Conley, Jr., to Esso Research and Engineering Co. Method and apparatus for handling deformable plastic-like materials. 3,039,138, 6–19–62, Cl. 18—4.

Hall, Clarence R. Spindle brake. 3,044,248, 7–17–62, Cl. 57—88.

Hall, Dennis S., and P. Reader, to United Shoe Machinery Corp. Shoe toe lining trimming machines. 3,024,482, 3–13–62, Cl. 12—57.6.

Hall, Don F.: *See*—
Chisholm, Douglas S., and Hall. 3,021,562.
Chisholm, Douglas S., and Hall. 3,056,190.

Hall, Donald A. Velocity measuring device. 3,019,073, 1–30–62, Cl. 346—38.

Hall, Donald G.: *See*—
Gaubis, Leonard L., and Hall. 3,045,762.

Hall, Donald I.: *See*—
Chaves, Aurelius, Jr., and Hall. 3,023,782.

Hall, Donivan L.: *See*—
Adler, Clarence E., and Hall. 3,057,547.

Hall, Eddie T., J. D. Newton, and J. R. Wood, to International Business Machines Corp. Adder circuit. 3,042,304, 7–3–62, Cl. 235—153.

Hall, Edward O., and R. H. Bates, to Minneapolis-Honeywell Regulator Co. Controller. 3,058,349, 10–16–62, Cl. 73—398.

Hall, Elmer D. Cleavage barriers. 3,064,731, 11–20–62, Cl. 166—35.

Hall, Emery L., and R. H. Kocian, to Skil Corp. Adapter for connecting power drills to powerless tools. 3,056,439, 10–2–62, Cl. 144—1.

Hall, Eric T., and W. R. Leonard, to Rolls-Royce Ltd. Gas shielded arc welding. 3,051,827, 8–28–62, Cl. 219—130.

Hall, Forest D. Fire protective water curtain projector. 3,045,931, 7–24–62, Cl. 239—598.

Hall, Frederick W., and A. Young, to Associated Automation Ltd. Coin collectors for telecommunication services. 3,023,275, 2–27–62, Cl. 179—6.5.

Hall, Garrison K. Finder for quickly locating a desired item in a long list of items. 3,068,747, 12–18–62, Cl. 88—24.

Hall, Geoffrey, and K. R. Highton, to Ferranti, Ltd. Inductive windings. 3,044,030, 7–10–62, Cl. 336—60.

Hall, George D.: *See*—
Thornhill, Charles W., Hall, and Nordin. 3,049,140.

Hall, George E., to Roseman Mower Corp. Gang mower with retractable mower elements. 3,038,286, 6–12–62, Cl. 56—7.

Hall, George H.: *See*—
Bablouzian, Leon M., and Hall. 3,039,771.
Whitehouse, John B., Lamade, Di Maggio, and Hall. 3,043,069.

Hall, Harlow H.: *See*—
Ciegler, Alex, Hall, and Nelson. 3,025,221.

Hall, Harry H. Acoustical mine firing control system. 3,016,829, 1–16–62, Cl. 102—18.

Hall, Harvey S., and M. J. Everitt, to Cathodeon Ltd. Impact-operable electric alarm switch devices. 3,038,042, 6–5–62, Cl. 200—61.08.

Hall, Howard R. Coffee making apparatus. 3,041,960, 7–3–62, Cl. 99—316.

Hall, Hubert L., to R. T. Hall. Calcination means and method. 3,050,298, 8–21–62, Cl. 263—28.

Hall, Hugh E., Jr.: *See*—
McKay, Alexander S., and Hall. 3,016,961.

Hall, Hugh E., Jr., to Texaco Inc. Radioactivity geophysical exploration. 3,016,960, 1–16–62, Cl. 175—41.

Hall, Ian A. M.: *See*—
Barnes, Arthur G., Hall, and Thomasson. 3,044,735.

Hall, J. & E., Ltd: *See*—
Bailey, William J. 3,022,866.

Hall, James A.: *See*—
Knochel, William J., and Hall. 3,038,096.

Hall, James G.: *See*—
Brenman, Elmer W., and Hall. 3,015,320.

Hall, James H., to Fansteel Metallurgical Corp. Capacitor. 3,036,249, 5–22–62, Cl. 317—230.

Hall, James H., Jr., and J. T. Martin. Semiautomatic journal box oiling device. 3,039,563, 6–19–62, Cl. 184—2.

Hall, James R., Sr., and J. A. Casing stop collar to mount a well tool. 3,065,005, 11–20–62, Cl. 287—52.

Hall, Jewell M., and H. S. McCullough, Jr. Missile gaseous bearing system. 3,027,117, 3–27–62, Cl. 244—14.

Hall, John A.: *See*—
Hall, Jesse E., Sr., and J. A. 3,065,005.

Hall, John L.: *See*—
Brewer, Thomas L., Hall, and Chewey. 3,015,936.

Hall, John L., C. R. Schreiber, and M. E. Cushman, to Curtiss-Wright Corp. Mechanism for converting rotary to linear movement. 3,044,312, 7–17–62, Cl. 74—95.

Hall, La Von C.: *See*—
Hall, Nate C. and L. V. C. 3,030,151.

Hall, Lewis D., to Ultek Corp. Vacuum pump. 3,070,283, 12–25–62, Cl. 230—69.

Hall, Lewis W., Jr., and C. L. Thomas, to Sun Oil Co. Isomerization of non-terminal olefins. 3,065,281, 11–20–62, Cl. 260—669.

Hall, Marchand B.: *See*—
Novak, John V., and Hall. 3,034,384.

Hall, Marchand B., to Acme Steel Co. Strap guide. 3,052,178, 9–4–62, Cl. 100—25.

Hall, Marchand B., D. O. Anderson, Jr., and E. Staron, to Acme Steel Co. Strapping tool. 3,021,876, 2–20–62, Cl. 140—93.4.

Hall, Marchand B., D. O. Anderson, Jr., and R. F. Plattner, to Acme Steel Co. Strapping tool. 3,032,075, 5–1–62, Cl. 140—93.4.

Hall, Maurice B., to E. I. du Pont de Nemours and Co. Preparation of metallized perfluorocarbon resins. 3,069,286, 12–18–62, Cl. 117—47.

Hall, Mitchell A. Increment wheel. 3,034,370, 5–15–62, Cl. 74—415.

Hall, Mitchell A. Control member. 3,063,301, 11–13–62, Cl. 74—415.

Hall, Mitchell A. Cycle starting mechanism. 3,064,485, 11–20–62, Cl. 74—102.

Hall, Mitchell A. Selective coin slide. 3,064,786, 11–20–62, Cl. 194—4.

Hall, Mitchell A. Coin chute. 3,064,788, 11–20–62, Cl. 194—55.
Hall, Mitchell A. Plus-minus timer. 3,065,313, 11–20–62, Cl. 200—35.
Hall, Nate C. and L. V. C. Dump boxes. 3,030,151, 4–17–62, Cl. 298—23.
Hall, Natt A. Brooder system. 3,039,378, 6–19–62, Cl. 98—40.
Hall, Newton L. Horizontal rotary grinding mill with floating load-partition. 3,027,104, 3–27–62, Cl. 241—176.
Hall, Newton L. Rotary grinding mill short-rod and ball type. 3,027,105, 3–27–62, Cl. 241—184.
Hall, Newton L. Horizontal rotary grinding mill and apparatus inclosing floating-impelling load-rotor. 3,028,104, 4–3–62, Cl. 241—176.
Hall, Newton L. Lifter-liner lining for rotary ball mills. 3,042,323, 7–3–62, Cl. 241—183.
Hall, Norman L.: *See*—
Parsons, Hubert J., and Hall. 3,039,342.
Hall, Phillip M., and J. H. Bamford, to Electric & Musical Industries Ltd. Apparatus for sensing the quantity of an elongated medium. 3,059,870, 10–23–62, Cl. 242—55.12.
Hall, Phillip F.: *See*—
Berger, Irving, and Hall. 3,027,113.
Hall, Preston M. Process for the recovery of juices from fruit such as citrus fruit and product obtained therefrom. 3,068,106, 12–11–62, Cl. 99—168.
Hall, Ralph: *See*—
Koerner, Ernest C., Hall, and Smith. 3,022,200.
Hall, Ralph, E. L. Smith, and G Daniel Hilker, ½ to Phelps Dodge Copper Products Corp., and ½ to Shawinigan Resins Corp. Insulated conductor. 3,067,263, 12–4–62, Cl. 117—232.
Hall, Ralph W., to The Randall Co., Division of Textron, Inc. Mail box construction. 3,030,007, 4–17–62, Cl. 232—17.
Hall, Raymond L., 24.8% to C. Farny, 6.3% to C. H. Farny, 6.3% to D. H. Farny, 6.3% to M. H. Farny, and 6.3% to C. L. Saunders. Ski practicing method and apparatus. 3,047,291, 7–31–62, Cl. 272—56.5.
Hall, Richard A., to The Monastery of The Holy Ghost, Inc. Waste catching devices. 3,063,418, 11–13–62, Cl. 119—95.
Hall, Richard C.: *See*—
Osborn, John A., and Hall. 3,027,281.
Hall, Richard C., to Edwin L. Wiegand Co. Electric heater-reflector assemblies. 3,032,638, 5–1–62, Cl. 219—34.
Hall, Richard H.: *See*—
Roberts, Carleton W., Haigh, Hall, and Lamson. 3,029,-217.
Hall, Richard H. Pneumatic needle-bar positioner for sewing machines. 3,026,835, 3–27–62, Cl. 112—221.
Hall, Richard H., and J. W. Bird, Jr., to Xerox Corp. Development of electrostatic images. 3,015,305, 1–2–62, Cl. 118—637.
Hall, Richard T.: *See*—
Hall, Hubert L. 3,050,298.
Hall, Richard W., to Bannes Engineering Co. Flexible oscillating electric joint. 3,030,600, 4–17–62, Cl. 339—2.
Hall, Robert A., to Imperial Chemical Industries Ltd. Composition comprising silicone elastomer and (tetramethylbenzylethylenedioxy) dimethylsilane. 3,056,756, 10–2–62, Cl. 260—29.1.
Hall, Robert D.: *See*—
Johnston, Robert W., and Hall. 3,053,016.
Hall, Robert L., and O. D. Ratliff, to Phillips Petroleum Co. High impulse solid propellant composition. 3,053,708, 9–11–62, Cl. 149—19.
Hall, Robert N., to General Electric Co. Method of making non-rectifying contacts to silicon carbide. 3,030,704, 4–24–62, Cl. 29—472.9.
Hall, Robert N., to General Electric Co. Semiconductor devices. 3,065,391. 11–20–62, Cl. 317—234.
Hall, Robert W.: *See*—
Smith, Raymond B., Simmons, and Hall. 3,024,365.
Hall, Ronald D., and G. Harris, to Brewing Patents Ltd. Preventing haze in fermented beverages. 3,053,664, 9–11–62, Cl. 99—48.
Hall, Ross H.: *See*—
Bullock, Milon W., Hand, and Hall. 3,041,340.
Hall, Russell S., to General Motors Corp. Floating labyrinth seal. 3,018,113, 1–23–62, Cl. 277—53.
Hall, Ruth W. Hair solution absorber. 3,050,071, 8–21–62, Cl. 132—46.
Hall, Sherman B.: *See*—
Daly, Thomas A., and Hall. 3,045,624.
Hall, Thomas C.: *See*—
Stevenson, Alden, and Hall. 3,055,776.
Hall, Thomas R., to McCabe-Powers Body Co. Stub drivers. 3,033,297, 5–8–62, Cl. 175—144.
Hall, Thomas R., to McCabe-Powers Body Co. Boom attachments. 3,043,394, 7–10–62, Cl. 182—2.
Hall, Thomas R., to McCabe-Powers Body Co. Truck derricks. 3,043,443, 7–10–62, Cl. 212—8.
Hall, Viola B. Adhesive disc and clasp for keys and the like. 3,016,224, 1–9–62, Cl. 248—205.
Hall, Walter J., to Bell & Howell Co. Slide projector. 3,023,-669, 3–6–62, Cl. 88—28.
Hall, Walter M., Jr. Carding machine licker-in roll cowling. 3,034,179, 5–15–62, Cl. 19—105.
Hall, William D.: *See*—
Edlen, George G., and Dumire. 3,062,938.
Hall, William D. Plug and grounding means. 3,045,201, 7–17–62, Cl. 339—14.
Hall, William D. Thermostat for cooling systems. 3,059,-078, 10–16–62, Cl. 200—122.
Hall, William H. Hose examining forms. 3,052,387, 9–4–62, Cl. 223—43.
Hall, William K., G. A. Sill, and C. L. Wolfe, to Gulf Research & Development Co. Measuring and recording integrator having control means. 3,028,213, 4–3–62, Cl. 346—33.
Hall, William M., to General Motors Corp. Turbojet thrust computer. 3,019,604, 2–6–62, Cl. 60—39.28.
Hall, William M., to General Motors Corp. Sonic region detector. 3,039,305, 6–19–62, Cl. 73—181.
Hallack & Howard Mfg. Co., a division of Boise-Cascade Corp.: *See*—
Brown, Clyde A. 3,064,281.
Hallam, Cecil G., to Western Electric Co., Inc. Corrugation and meshing of metal tapes. 3,054,439, 9–18–62, Cl. 153—77.
Hallam, Thomas B., and B. H. Jones, to The Sperry Gyroscope Co. Ltd. Machine for assorting by weight. 3,054,497, 10–2–62, Cl. 209—121.
Hallam, William A., to Rockwell-Standard Corp. Leaf spring assemblies. 3,053,527, 9–11–62, Cl. 267—47.
Hallamore, Kim, and B. E. Carlson, to Don Baxter, Inc. Portable anesthesia apparatus. 3,021,840, 2–20–62, Cl. 128—188.
Hallas, Alister, to Telephone Cables Ltd. Electric impedances of variable value. 3,036,263, 5–22–62, Cl. 323—74.
Hallay, Alexander, and J. E. Haymaker, to General Electric Co. Apparatus for starting and operating arc lamps. 3,058,033, 10–9–62, Cl. 315—289.
Hallberg, Frederick C., to United States of America, Navy. Blocking trigger circuit enabled by clock amplifier and triggered by signal impulses. 3,053,995, 9–11–62, Cl. 307—88.5.
Hallberg, Rolf A. Q., to Morton Salt Co. Seed treating apparatus. 3,064,948, 11–20–62, Cl. 259—3.
Hallden, Frederick C., and J. M. Rodriguez, to Hazeltine Research Inc. Apparatus for performing conditional subtraction. 3,045,913, 7–24–62, Cl. 235—155.
Hallen, Alf E. Lifting apparatus comprising a cargo boom having two topping lifts which, in a horizontal plane, form an angle. 3,054,512, 9–18–62, Cl. 212—3.
Hallene, Alan: *See*—
Beck, Walter, and Hallene. 3,033,317.
Hallene, Alan M., and R. F. Martin, to Montgomery Elevator Co. Noise suppressor for hydraulic systems. 3,033,306, 5–8–62, Cl. 181—46.
Hallene, Alan M., and R. F. Martin, to Montgomery Elevator Co. Shackle spring mounting for hydraulic elevators. 3,043,401. 7–10–62, Cl. 187—17.
Haller, John F., to Olin Mathieson Chemical Corp. Preparation of dimethylnitrosoamine. 3,065,270, 11–20–62, Cl. 260—583.
Haller, Neil M.: *See*—
Bomba, James S., Haller, and Kretzmer. 3,050,581.
Haller, Wolfgang K.: *See*—
Hessinger, Philip S., and Haller. 3,024,118.
Hallerback, Stig L., to Aktiebolaget W. Dan Bergman. Immersible drainage pumps. 3,025,799, 3–20–62, Cl. 103—87.
Hallett, Floyd P., to Mallinckrodt Chemical Works. X-ray contrast agents. 3,033,757, 5–8–62, Cl. 167—95.
Hallett, Galen M., Jr., to Charleston Rubber Co. Dry box glove mounting assembly. 3,051,963, 9–4–62, Cl. 2—270.
Hallett, James T.: *See*—
Price, Glenn R., Walsh, and Hallett. 3,070,493.
Hallett Mfg. Co.: *See*—
Estes, Stanley E. 3,048,704.
Halley, Angus M.: *See*—
Stapleford, Leonard E., and Halley. 3,027,831.
Halley, Angus M., to James Halley & Sons Ltd. Rotary photogravure printing apparatus. 3,027,832, 4–3–62, Cl. 101—247.
Halley, Clay J., Jr., and B. B. Wilde. Device for post-determination of vehicle speed. 3,024,979, 3–13–62, Cl. 235—61.
Halley, James, & Sons Ltd.: *See*—
Halley, Angus M. 3,027,832.
Stapleford, Leonard E., and Halley. 3,027,831.
Halley, Stanley G., to Sandoz Chemical Works, Inc. Sustained action pharmaceutical tablets. 3,044,938, 7–17–62, Cl. 167—82.
Halliburton, Alwyn N. Process for attaching plastic to metal and articles produced thereby. 3,017,307, 1–16–62, Cl. 156—72.
Halliburton Co.: *See*—
Barrington, Burchus Q. 3,051,241.
Blydorp, Abraham A. 3,052,297.
Bradley, Billie J. 3,044,553.
Briggs, George E., Jr. 3,045,756.
Brown, Jack E. 3,057,297.
Caldwell, Blake M., and Owen. 3,067,679.
Caldwell, Blake M., and Wier. 3,067,678.
Copland, George V., and Love. 3,039,310.
Davis, Frederick L. 3,022,875.
Douglass, Charles C., and Evans. 3,058,526.
Evans, Robert T. 3,054,454.
Firminhac, Ralph H. 3,052,798.
Ghiselin, William F., Jr. 3,028,528.
Gilreath, Lafayette E. 3,064,778.
Gordon, Thomas J., Jr. 3,070,164.
Hathorn, Don H., and Brown. 3,039,535.
Huddleston, Richard H., Jr. 3,022,489.

Halliburton Co. : *See*—Continued
Huddleston, Richard H., Jr. 3,024,658.
Huddleston, Richard H. Jr., Bravenec, and Eszlinger. 3,065,407.
Knox, John A. 3,057,798.
Malone, William T., and Cunningham. 3,064,730.
Mayhew, Eldon J. 3,036,633.
Patterson, Pat, and Cummins. 3,057,406.
Rankin, Edward E., Jr. 3,028,495.
Reesby, Carl E. 3,041,875.
Reesby, Carl E., and Smith. 3,054,848.
Skolaut, Paul L., and Waters. 3,051,653.
Walker, Wayne A. 3,053,673.
Yarborough, Mathias V., and McBee. 3,053,430.
Hallicrafters Co., The : *See*—
Ricks, James B. 3,041,397.
Halliday, William, R. W. G. Haslett, and J. E. L. Sothcott. Impulse driven sweep recorder. 3,031,251, 4–24–62, Cl. 346—139.
Halliday, William M., to The Leece-Neville Co. Alternator-rectifier electrical system. 3,026,465, 3–20–62, Cl. 320—28.
Hallinan, Mark : *See*—
Carli, Vincent J., and Hallinan. 3,045,329.
Halling, Louis F., ½ to R. S. Halling. Fishing lure. 3,024,562, 3–13–62, Cl. 43—42.48.
Halling, Robert S. : *See*—
Halling, Louis F. 3,024,562.
Halliwell, Ronald H., to E. I. du Pont de Nemours and Co. Method for charging fluorocarbon gases. 3,018,633, 1–30–62, Cl. 62—48.
Hallmark Cards, Inc. : *See*—
Bacon, Doris A. 3,034,255.
Hallock, Edward C. Structural member for hollow spars, beams, and louver blades. 3,031,045, 4–24–62, Cl. 189—34.
Hallow, William C., E. J. Lion, J. Kranc, I. H. Custis, and F. W. Scutti, Sr., to United States of America, Navy. Parachute-type aerial delivery device for high-speed drop of photographic film or the like. 3,032,301, 5–1–62, Cl. 244—138.
Hallowell, Dennis F., Jr., to Richfield Oil Corp. Grease composition. 3,020,233, 2–6–62, Cl. 252—40.7.
Hallowell, Dennis F., Jr., to Richfield Oil Corp. Greases thickened with lithium soaps of ethyl hexanoic acid, fatty materials, and esters of 12-hydroxystearic acid. 3,053,767, 9–11–62, Cl. 252—41.
Halls, Gordon A. : *See*—
Lefebvre, Arthur H., and Halls. 3,055,179.
Hallstrom, Olof H. Vacuum cleaner. 3,055,161, 9–25–62, Cl. 55—356.
Hallsworth, Arnold, to Steels Engineering Products Ltd. Cranes and like mechanical handling appliances. 3,033,401, 5–8–62, Cl. 214—672.
Hallsworth, Arnold, to Steels Engineering Products Ltd. Cranes. 3,061,127, 10–30–62, Cl. 214—672.
Hallum, Jules V., to Columbian Carbon Co. Treatment of microorganisms. 3,058,894, 10–16–62, Cl. 204—131.
Halm Instrument Co., Inc. : *See*—
Aronson, Theodore F., and Lyon. 3,029,500.
Lyon, Floyd A., and Aronson. 3,021,874.
Lyon, Floyd A., and Konazewski. 3,056,246.
Haloid Co., The : *See*—
Schwertz, Frederick A. 3,023,731.
Haloski, Frank, and R. A. Adams, to Vacuum Can Co. Rotary spray nozzle. 3,069,094, 12–18–62, Cl. 239—261.
Halperin, Bernard, to Stretch Togs, Inc. Tights, drawers and the like, for expectant mothers and obese persons. 3,034,136, 5–15–62, Cl. 2—224.
Halperin, David, to Catamaran Corp. of America. Ice conversion unit for boat trailers. 3,051,503, 8–28–62, Cl. 280—16.
Halpern, Benjamin D., to The Borden Co. Copolymers of vinyl chloride with phosphite esters. 3,069,400, 12–18–62, Cl. 260—87.5.
Halpern, Benjamin D., and W. Karo. Process for the preparation of N-alkyl-1,1-dihydroheptafluorobutylamines. 3,032,587, 5–1–62, Cl. 260—583.
Halpern, Benjamin D., and B. O. Krueger, to The Borden Co. Alkoxylated polyvinyl alcohol. 3,052,652, 9–4–62, Cl. 260—73.
Halpern, Joseph. Holder for sewing machine bobbins, and the like. 3,021,093, 2–13–62, Cl. 242—134.
Halpern, Otto, to Syntex Corp. 6-12-substituted progesterone. 3,047,570, 7–31–62, Cl. 260—239.57.
Halpern, William. Apparatus for deburring and chamfering in combination with drill or reamer or the like. 3,044,325, 7–17–62, Cl. 77—66.
Halsell, Charles M., and A. J. Goodwin, to Black, Sivalls & Bryson, Inc. Method and apparatus for mass flow measurement. 3,026,706, 3–27–62, Cl. 73—3.
Halsey, Brenton S. : *See*—
Outterson, Charles R., Baker and Halsey. 3,017,295.
Halsey, Donald J., and R. M. Sells, Jr., to United States of America, Navy. Ejectable flight capsule. 3,067,973, 12–11–62, Cl. 244—140.
Halsey, Donald J., to Ling-Temco-Vought, Inc. Emergency ejection seat. 3,042,347, 7–3–62, Cl. 244—141.
Halstead, Calvert B. : *See*—
Guest, Howard R., Kiff, and Halstead. 3,022,273.
Halstead, Harold A., H. A. Halstead, Jr., and R. E., to Novelty Carriage Works, Inc. Prisoner confining partition for automobiles. 3,015,515, 1–2–62, Cl. 296—24.
Halstead, Harold A., Jr. : *See*—
Halstead, Harold A., H. A. Halstead, Jr., and R. E. 3,015,515.
Halstead, Marian. Body molding garment for feminine wear. 3,016,057, 1–9–62, Cl. 128—549.
Halstead, Marian. Body molding garment. 3,059,646, 10–23–62, Cl. 128—535.
Halstead, Robert E. : *See*—
Halstead, Harold A., H. A. Halstead, Jr., and R. E. 3,015,515.
Halsted, Richard E., to General Electric Co. Luminescent system and method. 3,031,574, 4–24–62, Cl. 250—80.
Haltenberger, Jules. Automobile front seat backrest adjustment. 3,020,088, 2–6–62, Cl. 297—357.
Halter, Robert E., and J. J. McGrath, to Gulf Research & Development Co. Hydrocarbon composition containing an itaconic acid amine reaction product. 3,035,907, 5–22–62, Cl. 44—71.
Halter, Robert E., P. R. McCarthy, and J. J. McGrath, to Gulf Research & Development Co. Greases containing tetrahalophthalyl compounds and organophilic siliceous materials as thickeners. 3,042,614, 7–3–62, Cl. 252—33.6.
Halter, Robert E., and R. J. Hartle, to Gulf Research & Development Co. Process for making phosphorus acid esters. 3,042,697, 7–3–62, Cl. 260—461.
Halterman, James W., to Dresser Industries, Inc. Pipe joint. 3,064,983 11–20–62, Cl. 277—169.
Haltmeier, Alfred, to Farbenfabriken Bayer Aktiengesellschaft. Apparatus for spraying or atomizing moldable compositions. 3,015,450, 1–2–62, Cl. 239—421.
Halton, Donald : *See*—
Greenaway, John F., Hampson, Halton, and Marwing. 3,067,290.
Halton, Donald, to Automatic Telephone & Electric Co, Ltd. Binary counting circuits. 3,063,016, 11–6–62, Cl. 235—92.
Halverscheid, Herbert : *See*—
Nauen, Alfred, and Halverscheid. 3,052,448.
Halverscheid, Herbert, to Hans Ziller. Method of cold repairing rubber belts especially rubber conveyor belts. 3,016,319, 1–9–62, Cl. 156—98.
Halversen, Joy J. Maurer, and K. I. Saad to Parker Rust Proof Co. Method of and solution for forming phosphate coatings on zinc surfaces. 3,046,165, 7–24–62, Cl. 148—6.15.
Halverson, Richard E., to Western Electric Co., Inc. Device for bending terminals. 3,033,265, 5–8–62, Cl. 153—16.
Halverson, Richard E., to Western Electric Co., Inc. Drill jig. 3,038,357, 6–12–62, Cl. 77—62.
Halverson, Richard E., to Western Electric Co., Inc. Device for supporting and moving an article in a machine. 3,051,-960, 8–28–62, Cl. 90—18.
Halvorsen, Elmer W., to Sleeper & Hartley, Inc. Wire coiling machine and looper. 3,028,904, 4–10–62, Cl. 153—2.
Halvorsen, Henry J. : *See*—
Reed, John W., Halvorsen, Hold, and Miller. 3,050,837.
Halvorsen, Henry K., and H. K. Halvorsen, Jr. Power tagline. 3,027,031, 3–27–62, Cl. 214—657.
Halvorsen, Henry K., Jr. : *See*—
Halvorsen, Henry K., and H. K. Halvorsen, Jr. 3,028,-031.
Halvorson, Harlan L., to L. L. Smith. Roof ventilator. 3,036,503, 5–29–62, Cl. 98—32.
Halwachi, Fiolke, to D-M-E Corp. Plastic mold base and unit dies. 3,025,570, 3–20–62, Cl. 18—42.
Ham, Charles M., to Sperry Rand Corp. Ball bearings. 3,058,789, 10–16–62, Cl. 308—199.
Ham, George E., to The Dow Chemical Co. Preparation of ethylene sulfate. 3,045,027, 7–17–62, Cl. 260—327.
Ham, George E., to Monsanto Chemical Co. A copolymer comprising the reaction product of: 6-aminocaprolic acid or caprolactam; an aliphatic primary diamine; and urea. 3,053,811, 9–11–62, Cl. 260—77.5.
Ham, George E., to The Dow Chemical Co. Method for preparation of 2,2-bis(paralloxyphenyl)ropane. 3,060,-243, 10–23–62, Cl. 260—613.
Ham, George E., and G. Sumrell. Polymers of thiofumarate esters and methods of preparing the same. 3,060,154, 10–23–62, Cl. 260—78.5.
Hamabe, Naohiko : *See*—
Ito, Chuko, Okuda, and Hamabe. 3,065,045.
Hamada, Tsugio, to Vitamix Pharmaceuticals, Inc. Sustained action tablet containing oxytetracycline. 3,034,964, 5–15–62, Cl. 167—82.
Hamaishi, Takashi : *See*—
Minagawa, Toyosaku, and Hamaishi. 3,031,380.
Hamaker, John C., Jr. : *See*—
Roberts, George A., and Hamaker. 3,036,912.
Hamal, Heinrich : *See*—
Berlin, Ludwig W., and Hamal. 3,058,978.
Hamanaka, Wataru : *See*—
Ito, Akira, Hamanaka, Takagi, Wada, and Kawada. 3,064,000.
Hamann, Harry L., to Production Metal Stamping Co. Fastening means and method of applying the same. 3,024,509, 3–13–62, Cl. 24—73.
Hamann, Omer F., to General Dynamics Corp. Character beam-shaped tube. 3,020,441, 2–6–62, Cl. 315—8.5.
Hamann, Omer F., to General Dynamics Corp. Counting tube system. 3,035,202, 5–15–62, Cl. 315—8.5.
Hamann-Rechenmaschinen G.m.b.H. : *See*—
Hornauer, Gunter W. R., and Denzin. 3,053,446.

Hambley, Clarke C., to Chesebrough-Pond's Inc. Dispenser-applicator device. 3,039,132, 6–19–62, Cl. 15—571.
Hamblin, Henry J., and H. J. Nation, to National Research Development Corp. Motors for hydrostatic power transmission systems. 3,020,893, 2–13–62, Cl. 121—59.
Hambrecht, Albert H., F. L. Bartels, L. L. Isenring, and C. B. Rowe, to Research Products Corp. Air fitler with integral frame. 3,017,698, 1–23–62, Cl. 29—552.
Hambsch, Erich, and F. Herbold, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Agents for combating plant injuring nematodes. 3,039,918, 6–19–62, Cl. 167—22.
Hamburgen, Arthur, to International Business Machines Corp. Binary multiplier. 3,016,195, 1–9–62, Cl. 235—164.
Hamburger, Alvin. Utility brush. 3,046,587, 7–31–62, Cl. 15—111.
Hamburger Flugzeugbau G.m.b.H. : *See*—
Beusse, Hans, and Schukat. 3,067,381.
Tonnies, Eduard, and Fricke. 3,060,685.
Hamco Machine & Electronics Corp. : *See*—
Heinrich, Robert G. 3,039,235.
Hameister, Harold L., R. B. Wallace, F. H. Smith, to Remington Arms Co., Inc. Machine tool. 3,061,064, 10–30–62, Cl. 198—19.
Hamel, Jacob S., to Walt Disney Productions. Boat guiding apparatus. 3,030,895, 4–24–62, Cl. 104—71.
Hamel, Richard. Bottle handling device. 3,053,561, 9–11–62, Cl. 294—87.22.
Hamelink, Cornelis A. S. Checking system. 3,029,024, 4–10–62, Cl. 235—153.
Hamelink, William B., to Minneapolis-Honeywell Regulator Co. Condition responsive means. 3,020,413, 2–6–62, Cl. 250—214.
Hamer, Howard, to Electronic Associates, Inc. Data transmission system. 3,032,745, 5–1–62, Cl. 340—170.
Hamer, Leland S., to Chiksan Co. Fluid seal. 3,031,200, 4–24–62, Cl. 277—177.
Hamer, Leland S., to Chiksan Co. Sealing ring. 3,035,811, 5–22–62, Cl. 251—317.
Hamer, Leland S. Gyrostatic wheel stabilizing apparatus. 3,046,058, 7–24–62, Cl. 301—5.
Hamer, Leland S. Wheel balancer. 3,047,339, 7–31–62, Cl. 301—5.
Hamer, Leland S., to FMC Corp. Plug valve. 3,061,267, 10–30–62, Cl. 251—172.
Hamer, Martin, to Standard Oil Co. Motor fuel. 3,036,905, 5–29–62, Cl. 44—66.
Hamer, Martin, and S. R. Oblad, to Standard Oil Co. Motor fuel composition. 3,036,902, 5–29–62, Cl. 44—56.
Hamer, Martin, F. K. Kawahara, and R. H. Brown, to Standard Oil Co. Motor fuel. 3,037,492, 6–5–62, Cl. 123—1.
Hamer, Martin, L. D. La Croix, Jr., and C. B. Tracy, to Standard Oil Co. Motor fuel. 3,052,530, 9–4–62, Cl. 44—69.
Hamer, Morgan F., and D. E. Livingston, to Collins Radio Co. Radio hold-down device. 3,035,806, 5–22–62, Cl. 248—361.
Hamerstrand, George E. : *See*—
Hofreiter, Bernard T., Hamerstrand, and Mehltretter. 3,062,703.
Hofreiter, Bernard T., Hamerstrand, and Mehltretter. 3,067,088.
Hamill, James J. : *See*—
Hardman, Albert F., and Hamill. 3,062,825.
Hamill-Markus Industries, Inc. : *See*—
Randol, Glenn T. 3,035,660.
Hamilton, Allen R., to Consolidated Vacuum Corp. Temperature control circuit. 3,031,610, 4–24–62, Cl. 323—66.
Hamilton, Billy H., to Bell Telephone Laboratories, Inc. Current supply apparatus. 3,069,612, 12–18–62, Cl. 321—2.
Hamilton Carl C., and T. B. Hurst, to The Babcock & Wilcox Co. Steam generator. 3,022,774, 2–27–62, Cl. 122—478.
Hamilton, Carl C., and M. C. Santucci, to The Babcock & Wilcox Co. Tubular fluid heater and support therefor. 3,055,349. 9–25–62, Cl. 122—510.
Hamilton, Charles W. F. Hydraulic jet propulsion apparatus for waterborne craft. 3,044,260, 7–17–62, Cl. 60—35.54.
Hamilton, Clark H. Syringe. 3,035,616, 5–22–62, Cl. 141—309.
Hamilton, Clayton H. Simplified method for measuring protein-bound iodine. 3,055,742, 9–25–62, Cl. 23—230.
Hamilton Cosco Inc. : *See*—
Hamilton, Earl F. Re. 25,195.
Hamilton, Earl F. 3,016,974.
Hamilton, Earl F. 3,027,196.
Hamilton, Earl F. 3,042,139.
Hamilton, Earl F. 3,042,448.
Hamilton, Earl F. 3,044,078.
Hamilton, Earl F. 3,044,840.
Hamilton, Earl F. 3,062,583.
Hamilton, Earl F. 3,063,729.
Hamilton, Earl F., and Lay. 3,059,963.
Hamilton, Dallas E., to The Dow Chemical Co. Preparation of fluoral. 3,017,436, 1–16–62, Cl. 260—601.
Hamilton, David R. : *See*—
Snyder, Edward D., and Hamilton. 3,020,664.
Hamilton, Donald A. : *See*—
Corcoran, William H., Goldberg, and Hamilton. 3,064,652.
Gossett, Fred C., and Hamilton. 3,030,955.
Wall, Wendell L., Cowley, and Hamilton. 3,050,059.
Hamilton, Donald A., to Don Baxter, Inc. Needle package. 3,021,942, 2–20–62, Cl. 206—43.
Hamilton, Donald A., to Don Baxter, Inc. Molded part for a parenteral drip housing. 3,025,855, 3–20–62, Cl. 128—214.
Hamilton, Donald A., to Don Baxter, Inc. Three-way valve. 3,057,370, 10–9–62, Cl. 137—315.
Hamilton, Donald A., and E. S. Howell, Jr., to Don Baxter, Inc. Tubing clamp. 3,029,059, 4–10–62, Cl. 251—9.
Hamilton, Earl F., to Hamilton Cosco, Inc. Foldable play pen. Re. 25,195, 7–3–62, Cl. 5—98.
Hamilton, Earl F., to Hamilton Cosco, Inc. Step stool. 3,016,974, 1–16–62, Cl. 182—33.
Hamilton, Earl F., to Hamilton Cosco Inc. Chair arm rest fastening. 3,027,196, 3–27–62, Cl. 297—421.
Hamilton, Earl F., to Hamilton Cosco, Inc. Step stool. 3,042,-139, 7–3–62, Cl. 182—33.5.
Hamilton, Earl F., to Hamilton Cosco, Inc. Chair. 3,042,-448, 7–3–62, Cl. 297—301.
Hamilton, Earl F., to Hamilton Cosco, Inc. Infant's crib. 3,044,078, 7–17–62, Cl. 5—100.
Hamilton, Earl F., to Hamilton Cosco, Inc. Article of furniture. 3,044,840, 7–17–62, Cl. 311—108.
Hamilton, Earl F., to Hamilton Cosco, Inc. Infant's car seat and crib. 3,062,583, 11–6–62, Cl. 297—118.
Hamilton, Earl F., to Hamilton Cosco, Inc. Stroller. 3,063,-729, 11–13–62, Cl. 280—36.
Hamilton, Earl F., and R. B. Lay, to Hamilton Cosco Inc. Infant's walker. 3,059,963, 10–23–62, Cl. 297—5.
Hamilton, Edgar H. : *See*—
Cleek, Given W., and Hamilton. 3,022,182.
Hamilton, Edward F., Jr., and J. P. Harrington, to E. I. du Pont de Nemours and Co. Process for preparing glossy, transparent nylon films by melt extrusion of superpolyamide resins. 3,027,602, 4–3–62, Cl. 18—57.
Hamilton Electronic Corp. : *See*—
Clark, Richard U. 3,027,504.
Hamilton, Elmer E. Toy chain saw. 3,036,402, 5–29–62, Cl. 46—147.
Hamilton, Eugene P., R. M. Trebino, and H. R. Dell, to Smith-Corona Marchant Inc. Magnetic core circuit. 3,047,731, 7–31–62, Cl. 307—88.
Hamilton, Francis W. Multi-spindle automatic machine tools. 3,038,636, 6–12–62, Cl. 221—234.
Hamilton Glass Co. : *See*—
Nathan, Bernard. 3,032,866.
Hamilton, James D. : *See*—
Firth, Donald, and Hamilton. 3,065,953.
Hamilton, James S., to Potdevin Machine Co. Manufacture of bags. 3,021,767, 2–20–62, Cl. 93—35.
Hamilton, Joseph C., to Owens-Illinois Glass Co. Apparatus for slicing semi-hardened materials. 3,059,306, 10–23–62, Cl. 25—107.
Hamilton, Joseph P., to Western Kraft Corp. Container with cover lock. 3,055,570, 9–25–62, Cl. 229—16.
Hamilton, Joseph R., to Lynch Corp. Hydraulically controlled glass feeder. 3,036,556, 5–29–62, Cl. 121—45.
Hamilton, Joseph R., to Lynch Corp. Transfer and invert-revert mechanism for glass machines. 3,060,707, 10–30–62, Cl. 65—236.
Hamilton Kent Mfg. Co. : *See*—
Nathan, Tracy D. 3,046,028.
Hamilton, Louis F. Hemostatic instrument. Re. 25,191, 6–26–62, Cl. 128—326.
Hamilton, Lyle A., and P. S. Landis, to Socony Mobil Oil Co., Inc. Process for preparing 1,2-dithiole-3-thiones from aromatic ortho-methyl thiols. 3,040,057, 6–19–62, Cl. 260—327.
Hamilton Mfg. Co. : *See*—
Anderson, Lehman E. 3,021,605.
Hamilton, Newell, to The Babcock & Wilcox Co. Method of continuously casting metals. 3,052,936, 9–11–62, Cl. 22—200.1.
Hamilton, Robert C., and H. Mandroian, to United States of America, Army. Engine speed regulator. 3,042,836, 7–3–62, Cl. 317—5.
Hamilton, Robert W. : *See*—
Cusic, John W., and Hamilton. 3,055,891.
Cusic, John W., and Hamilton. 3,061,609.
Hamilton, Robert W., to Magee-Hale Park-O-Meter Co. Automatic parking meter. 3,026,983, 3–27–62, Cl. 194—72.
Hamilton, Stuart, to United Aircraft Corp. Variable area exhaust nozzle. 3,062,003, 11–6–62, Cl. 60—35.6.
Hamilton, Thomas, and C. W. Hawkey, to Westinghouse Electric Corp. Filament-transferring and orienting apparatus. 3,039,497, 6–19–62, Cl. 140—71.6.
Hamilton Tool Co., The : *See*—
Grove, James E. 3,067,893.
Huffman, Harold W. 3,066,957.
Hamilton, Wallace, to Pneumo Dynamics Corp. Hatch cover. 3,016,087, 1–9–62, Cl. 160—206.
Hamilton, Wallace, and J. Lovell, to Cleveland Pneumatic Industries, Inc. Transport vehicle. 3,016,623, 1–16–62, Cl. 34—50.
Hamilton, Wallace, and P. P. Surso, to Pneumo Dynamics Corp. Hatch cover dog. 3,021,165, 2–13–62, Cl. 292—256.5.
Hamilton, Walter E. : *See*—
Lowe, Edison, Durkee, and Hamilton. 3,046,143.

Hamilton Watch Co., The : *See*—
Bly, Donald A. 3,063,233.
Cammauf, Esther V. 3,063,136.
Detwiler, Harry S. 3,059,413.
Detwiler, Harry S. 3,063,234.
Detwiler, Harry S. 3,066,474.
Detwiler, Harry S., and Nelson. 3,048,004.
Detwiler, Harry S., Reese, and Serlemitsos. 3,015,206.
Epperlein, Helmut. 3,015,207.
Epperlein, Helmut. 3,034,284.
Epperlein, Helmut. 3,059,412.
Epperlein, Helmut. 3,060,676.
Fritsch, Daniel. 3,050,930.
Jensen, Kaj H. 3,041,818.
Jensen, Kaj H. 3,049,861.
Koehler, Fred. 3,015,933.
Koehler, Fred. 3,017,741.
Koehler, Fred. 3,052,766.
Koehler, Fred. 3,069,287.
Koehler, Fred. 3,069,515.
Long, Edgar S. 3,015,681.
Nelson, Carl A. 3,060,675.
Petters, Oscar R. 3,023,850.
Reese, James H. 3,016,685.
Reese, James H. 3,058,292.
Reese, James H., and Detwiler. 3,034,285.
Rueger, Herman. 3,016,688.
Rueger, Herman. 3,040,150.
Hamilton, William H. : *See*—
Strong, Richard V. D., Hamilton, and Hacker. 3,022,619.
Hamilton, William S., and B. L. Hinkle, to E. I. du Pont de Nemours and Co. Apparatus for casting film. 3,021,560, 2–20–62, Cl. 18—15.
Hamlet, Buck C. : *See*—
Harbers, Henry C., and Hamlet. 3,052,487.
Harbers, Henry C., and Hamlet. 3,063,703.
Harbers, Henry C., and Hamlet. 3,063,732.
Hamlett, Sidney J., to White Sewing Machine Corp. Sewing machine. 3,035,534, 5–22–62, Cl. 112—158.
Hamlett, Sidney J., to White Sewing Machine Corp. Carrying case for a sewing machine. 3,038,513, 6–12–62, Cl. 150—52.
Hamlett, Sidney J., to White Sewing Machine Corp. Zig-zag sewing machine. 3,068,817, 12–18–62, Cl. 112—158.
Hamlyn, Peter M., J. E. Snelling, and B. G. Horstmann. Marine propulsion units. 3,051,119, 8–28–62, Cl. 115—35.
Hamm, Clarence L., and W. Widlansky, to General Electric Co. Internal lubrication tube structure for hollow shafts. 3,038,556, 6–12–62, Cl. 184—6.
Hamm, Philip C. : *See*—
Beaver, David J., Stoffel, and Hamm. 3,066,021.
Hamm, Philip C., and G. A. Saul, to Monsanto Chemical Co. Mixed anhydrides of phosphorodiamidic acid in method of weed control. 3,020,141, 2–6–62, Cl. 71—2.3.
Hammack, Seldon R., deceased (Theda W. Hammack, executrix). Turning point and preliminary survey pin. 3,059,-732, 10–23–62, Cl. 189—21.3.
Hammack, Theda W. : *See*—
Hammack, Seldon R. 3,059,732.
Hammaker, Paul B., to Phillips Petroleum Co. Combination landing nipple-circulating mandrel. 3,054,456, 9–18–62, Cl. 116—224.
Hamman, Lyle J., to Eaton Stamping Co. Side mounted starter. 3,024,780, 3–13–62, Cl. 123—185.
Hammans, Reginald H., L. Holt, and C. H. Rabbs, to Granada TV Network Ltd. Television systems. 3,067,282, 12–4–62, Cl. 178—6.8.
Hammar, Gustaf, deceased (by L. B. Hammar, executrix), to United States of America, Navy. Gun sight. 3,067,330, 12–4–62, Cl. 250—83.3.
Hammar, Gustaf W. : *See*—
Sugarman, Meyer L., Jr., and Hammar. 3,063,861.
Hammar, Gustaf W., and F. C. Bennett, Jr., to Eastman Kodak Co. Method of producing infrared transmitting filter. 3,063,862, 11–13–62, Cl. 117—33.3.
Hammar, Louise B. : *See*—
Hammar, Gustaf. 3,067,330.
Hammell, Kemper M., to AMP Inc. Electrical connection device. 3,066,275, 11–27–62, Cl. 339—176.
Hammell, Kemper M., and H. Rueger, to AMP Inc. Electrical panel and terminal circuit harness therefor. 3,068,376, 12–11–62, Cl. 313—108.
Hammer, Allan D. Portable lunch box. 3,025,947, 3–20–62, Cl. 206—4.
Hammer, Frank E. : *See*—
Scott, Don, and Hammer. 3,016,336.
Hammer, Henry F., to Chas. Pfizer & Co., Inc. Intramuscular tetracycline compositions containing a calcium salt and an acetamide or a lactamide. 3,062,717, 11–6–62, Cl. 167—65.
Hammer, Henry F., C. I. Jarowski, and F. J. Pilgrim, to Chas. Pfizer & Co., Inc. Dicarboxylic acid derivatives of tetracycline and its analogs. 3,036,120, 5–22–62, Cl. 260—501.
Hammer, James P. : *See*—
Farr, Leo E., Jr., and Hammer. 3,062,438.
Rowe, Thomas H., Hammer, and Kennedy. 3,046,528.
Saltz, Fred, and Hammer. 3,055,581.
Hammer, James P., and J. W. Slater, to International Business Machines Corp. Detection circuit for unwanted designations and blank columns. 3,021,059, 2–13–62, Cl. 235—61.11.
Hammer, Maurice J., to Great Lakes Products, Inc. Spinning reel. 3,028,115, 4–3–62, Cl. 242—84.2.
Hammer, Warren, and C. F. Sudds, to Belden Mfg. Co. Method of forming insulated wire. 3,027,287, 3–27–62, Cl. 156—56.
Hammerand, Donald J., to Admiral Corp. Mounting for a phonograph turntable. 3,058,790, 10–16–62, Cl. 308—227.
Hammerly, Herman J., to General Electric Co. Electric terminal construction. 3,020,515, 2–6–62, Cl. 339—95.
Hammermill-Massachusetts Paper Co., Inc. : *See*—
Bolaski, Walter, and Gallatin. 3,041,246.
Hammermill Paper Co. : *See*—
Domizi, Dante J., Holasek, Smith, and Lannan. 3,058,-004.
Rasch, Royal H., Leemhuis, and Sutton. 3,069,310.
Hammerschmidt, George : *See*—
Bell, Angus S., Krause, and Hammerschmidt. 3,025,187.
Hammersla, William E. : *See*—
Duvall, George H., Hammersla, and Koliss. 3,061,666.
Hammersley, Evadna B. : *See*—
Hammersley, Lowell V. 3,044,540.
Hammersley, Lowell V., to E. B. Hammersley, by decree of distribution. Canopy-door unit. 3,044,540, 7–17–62, Cl. 160—20.
Hammersley, Richard L., to Handling Equipment Mfg. Corp. Cold water inlet for water heating tanks. 3,062,233, 11–6–62, Cl. 137—592.
Hammersley, Richard L., and D. E. Robinson, to Handling Equipment Mfg. Corp. Air inlet and smoke outlet baffle structure for gas fired heater. 3,056,400, 10–2–62, Cl. 126—307.
Hammerstrom, Henry H., and L. B. Woodruff. Single phase alternating current motor. 3,030,534, 4–17–62, Cl. 310—185.
Hammes, Josef J., to B. W. Lowell. Combination loud speaker mounting and lamp. 3,023,830, 3–6–62, Cl. 181—31.
Hammes, Paul A., to Merck & Co., Inc. Method of curing meat. 3,051,579, 8–28–62, Cl. 99—159.
Hammesfahr, Gunter. Apparatus for vulcanizing rubber tires. 3,054,141, 9–18–62, Cl. 18—6.
Hammett, Allen E. : *See*—
Corbin, Charles R., Jr., and Hammett. 3,025,028.
Hammett, Robert B. Apparatus and method for effecting a wave intermediary thermodynamic cycle. 3,034,299, 5–15–62, Cl. 60—39.77.
Hammel, Robert B. Regenerated registers. 3,045,214, 7–17–62, Cl. 340—173.
Hammink, Lucas, to American Enka Corp. Flaw detecting and thread tensioning device. 3,067,481, 12–11–62, Cl. 28—64.
Hammitt, Andrew B., and H. L. Birum, Jr. Curtain wall assembly. 3,052,330, 9–4–62, Cl. 189—34.
Hammon, George L. Gas torches. 3,039,521, 6–19–62, Cl. 158—27.4.
Hammon, George L. Manual valve for gas torches. 3,045,-694, 7–24–62, Cl. 137—328.
Hammond, Charles T. : *See*—
Newman, Herbert G. A., and Hammond. 3,050,735.
Hammond, Eric T., W. H. Watson, S. L. Cole, and R. Lane, to Hindley Bros. Ltd. Belt false twisting apparatus for crimping of textile yarns. 3,035,397, 5–22–62, Cl. 57—34.
Hammond, Harold W. Eye protector. 3,023,418, 3–6–62, Cl. 2—13.
Hammond, John W., to Aircraft Armaments, Inc. Zero recovery time pulse generator using polarity sensitive integrator driving Schmitt trigger through cathode follower. 3,034,063, 5–8–62, Cl. 328—58.
Hammond, Joseph W., to Seismograph Service Corp. Method of seismic prospecting. 3,018,838, 1–30–62, Cl. 181—.5.
Hammond, Lauren E. Water vehicle. 3,064,286, 11–20–62, Cl. 9—310.
Hammond, Lee C. : *See*—
Bass, Miles M., Bell, Hammond, and Robischung. 3,029,-563.
Hammond Machinery Builders, Inc. : *See*—
Bass, Miles M., Bell, Hammond, and Robischung. 3,029,-563.
Krueger, Edward C. 3,024,073.
Sutton, Donald E. 3,032,940.
Sutton, Donald E. 3,057,025.
Zinn, Clarence A. 3,066,454.
Hammond, Milton B., and G. B. Bowman, to Rockwell-Standard Corp. Composite metal article. 3,064,337, 11–20–62, Cl. 29—196.5.
Hammond Organ Co. : *See*—
Hanert, John M. 3,048,072.
Hanert, John M. 3,051,032.
Hanert, John M. 3,056,328.
Hanert, John M. 3,070,659.
Meinema, Herbert E. 3,037,414.
Hammond, Richard F. : *See*—
Spicer, Hugh C., and Hammond. 3,041,126.
Hammond, Robert J. : *See*—
Faulkner, Willard J., and Hammond. 3,046,024.
Hammond, Robert J., to V-M Corp. Pickup cartridge. 3,054,-862, 9–18–62, Cl. 179—100.41.
Hammond, Robert L. : *See*—
Hopson, Marvin H., and Hammond. 3,029,713.
Hammond, Roland P. Railway signalling means. 3,024,357, 3–6–62, Cl. 246—2.

Hamner Electronics Co., Inc.: *See*—
Hornyak, William F. 3,046,337.
Hamner, Glen P.: *See*—
Cull, Neville L., and Hamner. 3,025,254.
Moritz, Karsten H., and Hamner. 3,061,539.
Hamon, Ray C., to Union Carbide Corp. Tobacco smoke filters. 3,032,445, 5–1–62, Cl. 131—10.
Hamor, Glenn H. 4-amino-2-sulfamylbenzoic acid esters. 3,017,427, 1–16–62, Cl. 260—470.
Hamori, Andras, to Bell Telephone Laboratories, Inc. Pulse repeater testing arrangement. 3,062,927, 11–6–62, Cl. 179—175.31.
Hamp, John L. Fishing rod. 3,060,617, 10–30–62, Cl. 43—18.
Hampden Specialty Products Corp.: *See*—
Panicci, Richard L. 3,029,104.
Panicci, Richard L. 3,058,773.
Hampel, Robert H., to G. Leblanc Corp. Musical instrument with improved spring bearing. 3,064,516, 11–20–62, Cl. 84—382.
Hampl, Delmar L. Grain and material sampler. 3,034,360, 5–15–62, Cl. 73—425.
Hamprecht, Bernd: *See*—
Grimminger, Hermann, and Hamprecht. 3,036,930.
Hamprecht, Guenther, H. Bellmuth, and F. Lorenz, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Device for separating apparatus for lumpy goods. 3,018,930, 1–30–62, Cl. 222—410.
Hamprecht, Guenther, and M. Schwarzmann, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Complex metal aluminum hydrides and their production. 3,060,216, 10–23–62, Cl. 260—448.
Hampshire Chemical Corp.: *See*—
Singer, John J., Jr., and Weisberg. 3,061,628.
Hampshire Mfg. Corp.: *See*—
Marcus, Louis G. 3,042,941.
Hampshire, William J.: *See*—
Alspach, Hardin S., Gamble, Hampshire, Mellinger, and Musch. 3,044,117.
Hampson, Edward S.: *See*—
Horsting, William F. 3,060,658.
Hampson, James R. Electric motor control. 3,046,462, 7–24–62, Cl. 318—259.
Hampson, John C., to Rockwell-Standard Corp. Sinuous spring strip and apparatus for forming same. 3,057,380, 10–9–62, Cl. 140—71.
Hampson, Peter S.: *See*—
Greenaway, John F., Hampson, Halton, and Marwing. 3,067,290.
Hampton, Burt L., to The Glidden Co. Refining fatty acids. 3,052,701, 9–4–62, Cl. 260—419.
Hampton, Burt L., to The Glidden Co. Refining tall oil fatty acids. 3,066,160, 11–27–62, Cl. 260—419.
Hampton, Donald M. Well head for air drilling apparatus. 3,052,300, 9–4–62, Cl. 166—84.
Hampton, Harry D. Subsurface fluid meter. 3,034,349, 5–15–62, Cl. 73—155.
Hampton, Harry D. Subsurface fluid meter. 3,034,350, 5–15–62, Cl. 73—155.
Hampton, Hugh H. Sharpener for pencils. 3,049,096, 8–14–62, Cl. 120—96.
Hampton, Robert K.: *See*—
Davenport, William G., Hampton, and Katzen. 3,022,921.
Hampton, Robert S., and W. Josephian. Conical support for jacketed vessel. 3,037,657, 6–5–62, Cl. 220—15.
Hampton, Thomas L.: *See*—
Pirtle, John C., and Hampton. 3,042,349.
Hampton, William B.: *See*—
Marnett, Lawrence F., and Hampton. 3,021,800.
Hampton, William C., to American Instrument Co., Inc. Penetrometer for porosimeters. 3,022,657, 2–27–62, Cl. 73—38.
Hampton, William G.: *See*—
Crowther, George A., Brown, and Hampton. 3,064,884.
Hampton, William J., and C. J. Hueber, to Addressograph-Multigraph Corp. Printing machines. 3,029,726, 4–17–62, Cl. 101—58.
Hamren, Victor E., 47% to P. K. Horrigan. Method of fabricating miniature bellows by electroless chemical deposition. 3,040,426, 6–26–62, Cl. 29—423.
Hamren, Victor E., to Mech-Metal Tronics, Inc. Hermetically sealed rotary drive coupling. 3,051,008, 8–28–62, Cl. 74—18.1.
Hamren, Victor E., and G. L. Glaeser, Jr., to Mechtronics Corp. Bellows. 3,030,983, 4–24–62, Cl. 137—796.
Hamrick, James C., to Jet Line Products, Inc. Apparatus for installing lines through conduits. 3,034,766, 5–15–62, Cl. 254—134.4.
Hamrick, James C., to Jet Line Products, Inc. Method and apparatus for passing lines through conduits. 3,052,451, 9–4–62, Cl. 254—134.4.
Hamrick, Joseph T.: *See*—
Beckett, James A., Rose, and Hamrick. 3,054,252.
Hamrick, Joseph T., to Thompson Ramo Wooldridge Inc. Underwater explosive device. 3,027,836, 4–3–62, Cl. 102—7.
Hamson, Roger E., to Radio Corp. of America. Acoustic devices. 3,032,615, 5–1–62, Cl. 179—115.5.
Hamstead, George W., to W. Watson & Sons Ltd. Optical systems in which parallax is eliminated. 3,024,698, 3–13–62, Cl. 88—57.
Hamway, Edward G., and B. Edwards, to The General Tire & Rubber Co. Method of making suede-like plastic sheeting. 3,041,193, 6–26–62, Cl. 117—11.
Han, Pum S. Sphygmomanometer. 3,032,030, 5–1–62, Cl. 128—2.05.
Han, Shu T., and J. P. Brezinski, to Beloit Iron Works. Drainage control mechanism. 3,018,825, 1–30–62, Cl. 162—319.
Hanaban, W. O.: *See*—
Allston, Hugh C. 3,025,677.
Hanak, Anton. Steel forming dies. 3,036,623, 5–29–62, Cl. 153—32.
Hanak, Joseph J.: *See*—
Rosi, Fred D., and Hanak. 3,028,341.
Hanaoka, Takeuni: *See*—
Kawamura, Yurio, Tanuki, Takenouchi, Satani, Sakata, and Hanaoka. 3,039,880.
Hanau Engineering Co., Inc.: *See*—
Franwick, Edmond J. 3,035,350.
Franwick, Edmond J. 3,048,923.
Franwick, Edmond J., and Beu. 3,054,402.
Strauss, Walter S. 3,064,936.
Hanau, Heinz, to General Motors Corp. Method of making bearings. 3,036,365, 5–29–62, Cl. 29—148.4.
Hanawai Mfg Co., Ltd.: *See*—
Lent, Ralph C. 3,047,249.
Hance, Harold V., and N. H. Enenstein, to Hughes Aircraft Co. Moving target selector. 3,026,514, 3–20–62, Cl. 343—7.7.
Hancik, Albin M., ½ to A. M. Hancik and ½ to W. A. Foll. Laminated tube structure and method. 3,037,529, 6–5–62, Cl. 138—109.
Hancock Brick and Tile Co., The: *See*—
Schmunk, John D., and Gilliland. 3,035,469.
Schmunk, John D., and Gilliland. 3,050,198.
Hancock, Charles K., to Signal Oil and Gas Co. Road marker materials and methods of making same. 3,020,252, 2–6–62, Cl. 260—24.
Hancock & Co. (Engineers) Ltd.: *See*—
Hancock, Leslie J. 3,063,698.
Hancock, James E. Conveyor mounting for elevating scraper. 3,048,934, 8–14–62, Cl. 37—129.
Hancock, James E. Tongue for elevating scraper. 3,063,740, 11–13–62, Cl. 280—446.
Hancock, James E. Earth moving apparatus and fluid control therefor. 3,066,429, 12–4–62, Cl. 37—129.
Hancock, John D., to Phillips Petroleum Co. Welding gun for thermoplastic materials. 3,066,841, 12–4–62, Cl. 226—128.
Hancock, Kenneth G., and D. M. Bruce, to Electro-Hydraulics Ltd. Hydraulic systems. 3,060,689, 10–30–62, Cl. 60—52.
Hancock, Kenneth G., and D. M. Bruce, to Electro-Hydraulics Ltd. Selector valve mechanism. 3,060,967, 10–30–62, Cl. 137—621.
Hancock, Leslie J., to Hancock & Co. (Engineers) Ltd. Photoelectric controlled line following devices as used with oxygen jet cutting machines. 3,063,698, 11–13–62, Cl. 266—23.
Hancock, Milton L.: *See*—
Glass, William H., and Hancock. 3,043,496.
Hancock, Virgil, to Textron, Inc. Process of making colored multi-focal eyeglass lens. 3,031,926, 5–1–62, Cl. 88—54.
Hancock, Wilbert R. Ball tossing game devices. 3,049,352, 8–14–62, Cl. 273—96.
Hancock, William M., to Western Electric Co., Inc. Method of an apparatus for mass soldering wiring boards. 3,037,274, 6–5–62, Cl. 29—471.1.
Hand, Eugene E., to High Voltage Engineering Corp. Reduction of voltage fluctuations in electrostatic equipment. 3,056,052, 9–25–62, Cl. 310—6.
Hand, Francis R.: *See*—
Anderson, John L., and Hand. 3,019,354.
Hand, George C., Jr., and J. H. Kubanoff, to United States of America, Navy. Contour data recording system. 3,040,360, 6–19–62, Cl. 340—174.1.
Hand, John J.: *See*—
Bullock, Milon W., Hand, and Hall. 3,041,340.
Handberg, Christian N., to Jensen Fitting Mfg. Ltd. Spray nozzle. 3,038,668, 6–12–62, Cl. 239—554.
Handel, Siegfried K., to The Mosler Safe Co. Control circuit for motor driven file. 3,059,984, 10–23–62, Cl. 312—223.
Handelman, Henry. Counter. 3,027,073, 3–27–62, Cl. 235—83.
Handl, Egon. Pump for concrete and mortar mixtures and the like. 3,058,430, 10–16–62, Cl. 103—167.
Handler, Alois: *See*—
Cech, Karl. 3,029,689.
Keznickl, Eduard. 3,017,813.
Keznickl, Eduard. 3,032,002.
Muller, Johann. 3,060,495.
Handler, Ing. A.: *See*—
Keznickl, Eduard. 3,024,714.
Handley, Harold E., to Economy Governor Co. Safety control system for fluid distribution and apparatus. 3,021,866, 2–20–62, Cl. 137—458.
Handley, Harold E., to McGraw-Edison Co. Structural beams and columns. 3,044,585, 7–17–62, Cl. 189—37.
Handley, Harold E., to Handley Industries, Inc. Lead test box. 3,055,970, 9–25–62, Cl. 174—37.
Handley Industries, Inc.: *See*—
Handley, Harold E. 3,055,970.

Handley, John. Page printing telegraph receivers. 3,025,-347, 3–13–62, Cl. 178—25.

Handley, John. High-speed printing machines. 3,025,348, 3–13–62, Cl. 178—25.

Handley, John. Type printing apparatus. 3,038,580, 6–12–62, Cl. 197—82.

Handley, John. High speed perforators. 3,069,057, 12–18–62, Cl. 226—112.

Handley, John R., and R. A. Armer, to Calpat Products, Inc. Parking meter and time release structure therefor. 3,054,-251, 9–18–62, Cl. 58—142.

Handley, Lawrence M.: *See*—
Dooley, Philip G., and Handley. 3,062,004.

Handling Equipment Mfg. Corp.: *See*—
Carlson, Theodore E., and Bowen. 3,028,843.
Hammersley, Richard L. 3,062,233.
Hammersley, Richard L., and Robinson. 3,056,400.

Handschuhmaker, Edward, and H. G. Hoyer, to Textron Inc. Method of producing a cake batter. 3,069,270, 12–18–62, Cl. 99—92.

Handschy, John, R. J. Gordon, and R. J. Moore, to Shell Oil Co. Alkylation process. 3,050,453, 8–21–62, Cl. 204—162.

Handtmann, Albert, Armaturenfabrik: *See*—
Keznicki, Eduard. 3,059,534.

Handwerk, Erwin C., to American Metal Climax, Inc. Heated fractionating column. 3,045,995, 7–24–62, Cl. 266—19.

Handzel, Edward, to Ru-Son Products Co., and J. Rubenstein. Apparatus for opening bags. 3,059,390. 10–23–62, Cl. 53—189.

Haneklaus, Karl, to F. Tacke, KG. Articulated-joint toothed coupling. 3,044,280, 7–17–62, Cl. 64—8.

Hanel, Ewald, to Schubert & Salzer Maschinenfabrik Aktiengesellschaft. Cam system for controlling transfer bits. 3,053,109, 9–4–62, Cl. 66—95.

Haner, Robert B., and H. C. Sibley, to General Railway Signal Co. Communication system. 3,021,506, 2–13–62, Cl. 340—147.

Hanert, John M., to Hammond Organ Co. Apparatus for producing pseudo-stereophonic effects. 3,048,072, 8–7–62, Cl. 84—1.24.

Hanert, John M., to Hammond Organ Co. Single manual double countermelody electrical musical instrument. 3,051,-032, 8–28–62, Cl. 84—1.19.

Hanert, John M., to Hammond Organ Co. Electrical musical instrument employing piano damper pedal operated switch. 3,056,328, 10–2–62, Cl. 84—217.

Hanert, John M., to Hammond Organ Co. Artificial reverberation control apparatus. 3,070,659, 12–25–62, Cl. 179—1.

Hanes, Herman E.: *See*—
Zamboldi, George R., and Hanes. 3,067,319.

Hanes, Herman E., to Air Reduction Co., Inc. Metal-graphite brush with brazed shunt. 3,067,318, 12–4–62, Cl. 219—85.

Hanes Hosiery Mills Co.: *See*—
Thomas, Roany B., and Young. 3,044,293.

Hanes, James W. E., to Huntsinger Associates. Sucker rod and pump rotating apparatus. 3,030,935, 4–24–62, Cl. 121—150.

Hanes, Vaughan D., to Aerojet-General Corp. Setting tool-propellant operated. 3,024,843, 3–13–62, Cl. 166—63.

Hanes, Vaughan D., to Aerojet General Corp. Initiating device for oil well tools. 3,024,844, 3–13–62, Cl. 166—65.

Hanes, Vaughan D., to Aerojet-General Corp. Telescopic bridging plug-pressure set. 3,029,872, 4–17–62, Cl. 166—63.

Hanes, Vaughan D., to Aerojet-General Corp. Combination bridging plug and combustion chamber. 3,029,873, 4–17–62, Cl. 166—63.

Hanes, Vaughan D., to Aerojet-General Corp. Initiating device for oil well tools. 3,045,081, 7–17–62, Cl. 200—61.53.

Hanes, Vaughan D., to Aerojet-General Corp. Bridging plug. 3,062,295, 11–6–62, Cl. 166—204.

Hanes, Vaughan D., and L. Zernow, to Aerojet-General Corp. Downhole actuator for well tools. 3,032,110, 5–1–62, Cl. 166—63.

Hanewinkel, Lorenz, to Zuse KG. Information storage device. 3,052,872, 9–4–62, Cl. 340—174.

Haney, Donald W., to International Business Machines Corp. Data storage device. 3,052,407, 9–4–62, Cl. 235—61.11.

Haney, John D.: *See*—
Frame, John D., Haney and White. 3,041,267.

Haney, Roy E. D., and J. V. Clarke, Jr., to Esso Research and Engineering Co Radioactive tracer. 3,045,119, 7–17–62, Cl. 250—106.

Haney, Virgil B. Interchangeable inserts for fishing floats. 3,056,229, 10–2–62, Cl. 43—44.87.

Hanf, Walter K.: *See*—
Dunbeck, Joseph T., and Hanf. 3,038,694.

Hanff, Theodore R., to Herculite Corp. Tie plates for concrete railroad ties. 3,062,450, 11–6–62, Cl. 238—287.

Hanford, William E., J. W. Copenhaver, and H. R. Davis, to The M. W. Kellogg Co. Mercaptoazo and mercaptoazoxy aromatic compounds and method for the preparation thereof. 3,052,667, 9–4–62, Cl. 260—143.

Hanggi, George J.: *See*—
Clynch, Frank, and Hanggi. 3,059,483.

Haniel und Lueg Gesellschaft mit Beschr, Haftung: *See*—
Holländer, Michel. 3,039,396.

Hanington, Charles A., to The Scholl Mfg. Co., Inc. Surgical pad. 3,029,813, 4–17–62, Cl. 128—153.

Hanington, Charles A., to The Scholl Mfg. Co., Inc. Surgical pad and packet. 3,063,555, 11–13–62, Cl. 206—63.2.

Hanink, Dean K., to General Motors Corp. Coating of titanium and titanium alloys with aluminum and aluminum alloys. 3,037,880, 6–5–62, Cl. 117—52.

Hanink, Dean K., A. A. Shoudy, Jr., R. F. Thomson, and A. G. Mette, to General Motors Corp. Method of applying an aluminum coating on ferrous metal article. 3,033,705, 5–8–62, Cl. 117—50.

Hanink, Dean K., and F. J. Webbere, to General Motors Corp. High temperature heat and creep resistant alloy. 3,047,-381, 7–31–62 Cl. 75—171.

Hanink, Dean K., A. A. Shoudy, Jr., and R. F. Thomson, to General Motors Corp. Method of aluminum coating. 3,065,107, 11–20–62, Cl. 117—93.

Hanizeski, Roman H., to General Electric Co. Spring lock for X-ray apparatus. 3,064,766, 11–20–62, Cl. 188—77.

Hanje, Abe J.: *See*—
Hunter, Robert H., Hanje, and Smith. 3,047,054.

Hanken, Albert F. G., to Industrial Nucleonics Corp. Measuring system. 3,044,297, 7–17–62, Cl. 73—355.

Hankin, Ralph L., to Abbey Etna Machine Co. Mechanism for end cropping and test sampling welded seam tubing. 3,043,678 7–10–62, Cl. 82—101.

Hankins, Elinor M., and W. D. Emmons, to Rohm & Haas Co. N-acryloxyalkyl-oxazolidines and N-acryloxyalkyltetrahydro-1, 3-oxazines, their polymers preparation thereof, and derivatives thereof. 3,037,006, 5–29–62, Cl. 260—80.5.

Hankins, Elinor M., and W. D. Emmons, to Rohm & Haas Co. Acryloxyalkyl-ketimines and -aldimines, polymers and preparation thereof, and primary amine monomers and polymers derived therefrom. 3,037,969, 6–5–62, Cl. 260—89.5.

Hankins, Kenneth E., to C. H. Masland & Sons. Carpet with reinforcement. 3,042,564, 7–3–62, Cl. 154—49.

Hankins, Kenneth E., to C. H. Masland and Sons. Method of applying polyurethane foam to the backs of carpets and equipment therefor. 3,046,177, 7–24–62, Cl. 156—78.

Hankison Corp.: *See*—
Hankison, Lewis E., and Walker. 3,063,259.
Walker, William F., and Sedar. 3,040,500.

Hankison, Lewis E., and W. F. Walker, to Hankison Corp. Apparatus for filtering and dehydrating gases. 3,063,259, 11–13–62, Cl. 62—317.

Hanks, Harland W., to Stauffer Chemical Co. Electron beam furnace with multiple field guidance of electrons. 3,068,-309, 12–11–62, Cl. 13—31.

Hankscraft Co.: *See*—
Conlin, Peter, and Schulz. 3,020,385.

Hankus, Chester P., 65% to C. P. Hankus, 10% to T. Hankus, 10% to P. Van Beek, and 15% to K. T. Snow. Foil slitting mechanism. 3,067,797, 12–11–62. Cl. 153—2.

Hankus, Chester P., 10% to T. Hankus, 10% to P. Van Beek, and 15% to K. T. Snow. Separable joint for poles. 3,069,-192, 12–18–62, Cl. 287—127.

Hankus, Theodore: *See*—
Hankus, Chester P. 3,067,797.
Hankus, Chester P. 3,069,192.

Hänle, Eugen: *See*—
Hütter, Ulrich, and Hänle. 3,021,246.

Hanlon, Wilfred F., to Forster, Inc. Multi-channel gooseneck construction with substantially uninterrupted and even inner and outer surfaces. 3,041,855, 7–3–62, Cl. 63—5.

Hanlet, Jacques M. N. to Societe d'Electronique et d'AAutonmatisme. Method of manufacturing electrical resistances and articles resulting therefrom. 3,019,137, 1–30–62, Cl. 117—212.

Hanlet, Jacques M. N., to Societe d'Electronique et d'Automatisme. Electronic bistable device. 3,030,515, 4–17–62, Cl. 250—213.

Hanlet, Jacques M. N., to Societe d'Electronique et d'Automatisme. Electroluminescent compositions. 3,030,541, 4–17–62, Cl. 313—108.

Hanlet, Jacques M. N., to Societe d'Electronique et d'Automatisme. Electrophotoluminescent devices. 3,035,177, 5–15–62, Cl. 250—213.

Hanley, George P.: *See*—
De Fezzy, Albert, Hanley, Kenyon, and Peak. 3,021,826.

Hanley, George P., to General Motors Corp. Gear pump and sump for engine lubrication system. 3,057,434, 10–9–62, Cl. 184—6.

Hanley, George P., and K. J. Winkel, to General Motors Corp. Limiting speed governor. 3,053,096, 9–11–62, Cl. 73—531.

Hanley, George P., and K. L. Hulsing, to General Motors Corp. Rotary blower. 3,059,835, 10–23–62, Cl. 230—141.

Hanley Hydrojet, Inc.: *See*—
Hanley, Keenan. 3,034,295.

Hanley, Keenan, to Hanley Hydrojet, Inc. Hydraulic jet propulsion unit for watercraft. 3,034,295, 5–15–62, Cl. 60—35.54.

Hanley, Thure E.: *See*—
Randell, Dwight L., Hanley, and Larison. 3,044,288.

Hanley, William J. Hand stamp. 3,033,107, 5–8–62, Cl. 101—110.

Hanley, William L. Cooling section for tunnel kiln. 3,024,515, 3–13–62, Cl. 25—142.

Hanley, William M., to FMC Corp. Strainer. 3,063,566, 11–13–62, Cl. 210—411.

Hanlon, Donald V., to Container Corp. of America, Sefton Fibre Can Co. Division. Container. 3,051,370, 8–28–62, Cl. 229—51.

Hanlon, William J.: *See*—
Bingham, Robert E., Forrest, Hanlon, and Hutson. 3,062,759.

Hanlon & Wilson Co.: *See*—
Hannon, Stephen J. 3,043,098.
Hanmer, Robert S., and J. H. Carroll, to Phillips Petroleum Co. Method of preparing butadiene polymer-carbon black masterbatch. 3,035,006, 5–15–62, Cl. 260—41.5.
Hanmer, Robert S., to Phillips Petroleum Co. Apparatus for fines recovery in carbon black-rubber masterbatch production. 3,057,697, 10–9–62, Cl. 23—260.
Hanmore, De Witt W. Adjustable supports. 3,043,641, 7–10–62, Cl. 311—39.
Hann, Kenneth G., and J. McFarlane, to Somerset Wire Co. Ltd. Method of and apparatus for processing wire particularly applicable to wire for pre-stressed concrete construction. 3,068,353, 12–11–62, Cl. 219—155.
Hann, Melvin M., to Sunstrand Corp. Piston return mechanism. 3,066,606, 12–4–62, Cl. 103—5.
Hann, Paul D.: *See*—
Van Pool, Joe, and Hann. 3,045,055.
Hanna, Ashley R. Cloth-laying machines. 3,033,561, 5–8–62, Cl. 270—31.
Hanna, Clinton R., to Westinghouse Electric Corp. Vehicle stabilizer, tilter and leveling system. 3,035,852, 5–22–62, Cl. 280—124.
Hanna, Delbert L., to Velsicol Chemical Corp. Production of 3,5,6-trichlorosalicylic acid. 3,062,877, 11–6–62, Cl. 260—521.
Hanna Engineering Works: *See*—
Ellis, John T., Jr. Re. 25,257.
Ellis, John T., Jr. 3,070,363.
Hanna, John C. 3,054,383.
Hanna, John C. 3,054,385.
Hanna, Jay, to Dixie Lionel Corp. Toy atomic waste disposal container. 3,034,257, 5–15–62, Cl. 46—226.
Hanna, John C., to Hanna Engineering Works. Fluid motor. 3,054,383, 9–18–62, Cl. 121—38.
Hanna, John C., to Hanna Engineering Works. Fluid actuator having cushioned stop. 3,054,385, 9–18–62, Cl. 121—38.
Hanna, John E.: *See*—
Peake, Clyde C., and Hanna. 3,021,969.
Hanna, Milton M., and F. K. Lipschutz, to Louisville Cap Corp. Hat or cap with sizing insert or element. 3,025,529, 3–20–62, Cl. 2—197.
Hanna, Ralph, to Midland-Ross Corp. Program controller. 3,043,517, 7–10–62, Cl. 236—46.
Hanna, William E. Safety locking devices for automobiles. 3,046,367, 7–24–62, Cl. 200—61.78.
Hannah, Harold D.: *See*—
Hartley, Richard S., and Hannah. 3,054,431.
Hannah, John B.: *See*—
Havens, Carl B., and Hannah. 3,066,882.
Hannam, Herbert J., to General Electric Co. Methods of manufacturing and handling target electrodes and target electrode assemblies. 3,032,859, 5–8–62, Cl. 29—25.14.
Hannan, Henry: *See*—
Hannan, Ralph, Jr. and H. 3,049,787.
Hannan, Patrick J., and J. M. Leonard. Device for detecting small changes in level. 3,018,558, 1–30–62, Cl. 33—209.
Hannan, Ralph, Jr. and H. Apparatus for extruding prestressed concrete products. 3,049,787, 8–21–62, Cl. 25—118.
Hannas, Carl L. Swing. 3,044,774, 7–17–62, Cl. 272—85.
Hannas, Paul V., and R. G. Oschell, to United States of America, Army. Dummy ammunition cartridge. 3,027,840, 4–3–62, Cl. 102—41.
Hannegan, Raymond C., to Gibson Electric Co. Flushing silver solders over and onto surfaces of other metals. 3,065,539, 11–27–62, Cl. 29—497.
Hanneman, Walter M., to Illinois Tool Works. Rivet setter. 3,033,410, 5–8–62, Cl. 218—42.
Hannes, George J., to Johns-Manville Fiber Glass Inc. Laminate and method of forming same. 3,060,068, 10–23–62, Cl. 154—43.
Hannes, Paul, to Koppers Co., Inc. Slit hopper discharge means. 3,025,981, 3–20–62, Cl. 214—17.
Hannes, Paul, to Koppers Co., Inc. Coke quenching tower. 3,033,764, 5–8–62, Cl. 202—227.
Hannig, Kurt: *See*—
Grassmann, Wolfgang, and Hannig. 3,059,524.
Hannigan, William D., to United Aircraft Corp. Flexural support for rocket. 3,057,298, 10–9–62, Cl. 102—50.
Hannon Engineering Co.: *See*—
Hannon, Gilbert H. 3,043,156.
Hannon, Gilbert H., to Hannon Engineering Co. Variable speed repetitive cycle transmission mechanism. 3,043,156, 7–10–62, Cl. 74—393.
Hannon, Gilbert H., to H. G. Weber and Co., Inc. Sheet and bag separating and stacking mechanism. 3,057,527, 10–9–62, Cl. 225—100.
Hannon, Robert J., to Sylvania Electric Products Inc. Modulator tuned circuits. 3,069,636, 12–18–62, Cl. 333—70.
Hannon, Stephen, and W. A. Brennan, to Raytheon Co. Transformers. 3,041,561, 6–26–62, Cl. 336—84.
Hannon, Stephen J., to Hanlon & Wilson Co. Exhaust heater-muffler combination. 3,043,098, 7–10–62, Cl. 60—31.
Hannon, William F., to The Fafnir Bearing Co. Work supporting jig. 3,050,197, 8–21–62, Cl. 214—1.
Hannoosh, Mitchell M.: *See*—
King, Thomas F., Farnsworth, and Hannoosh. 3,049,201.
Hannum, Arthur J.: *See*—
Losee, Ferril A., and Hannum. 3,027,543.
Hannum, Arthur J., to Hughes Aircraft Co. Digital communications receiver. 3,037,568, 6–5–62, Cl. 179—15.
Hanny, Jost, to Sulzer Freres, S.A. Expansion turbine and turbocompressor connected therewith in a cold producing plant. 3,038,318, 6–12–62, Cl. 62—192.
Hänny, Jost, and A. Zürcher, to Sulzer Freres, S.A. Means for centering the piston of a piston compressor. 3,035,-879, 5–22–62, Cl. 309—5.
Hanold, Robert J., and R. D. Johnston, to General Motors Corp. Power plant heat storage arrangement. 3,029,596, 4–17–62, Cl. 60—24.
Hanover Tool Co., Inc.: *See*—
Stambaugh, Burnell C., and Meckley. 3,023,654.
Hanrahan, Francis P., to United States of America, Agriculture. Apparatus for heat-treating liquid food stuffs. 3,016,815, 1–16–62, Cl. 99—251.
Hanrahan, James P.: *See*—
Woods, Allen. 3,059,401.
Hansberg, Fritz. Device for hardening foundry cores and foundry moulds by means of gaseous or atomized reagents particularly CO_2 gas. 3,038,221, 6–12–62, Cl. 22—87.
Hanschitz, Rudolf, to Electrostar G.m.b.H. Kitchen appliance with air cooling system therefor. 3,051,856, 8–28–62, Cl. 310—59.
Hanscom, H. F., & Co., Inc.: *See*—
Hanscom Harris F. 3,044,614.
Hanscom, Harris F., to H. F. Hanscom & Co., Inc. Tape package having controlled unwinding. 3,044,614, 7–17–62, Cl. 206—59.
Hanse, Albert B.: *See*—
Conway, Robert D., and Hanse. 3,028,957.
Hansel, Otto, Junior, G.m.b.H.: *See*—
Hansel, Otto, and Lesch. 3,033,343.
Hansel, Otto, and H. Lesch, to Otto Hansel, Jr., G.m.b.H. Feeding device for packing machines. 3,033,343, 5–8–62, Cl. 198—30.
Hansel, Paul G., to Servo Corp. of America. Monitor for doppler beacon system. 3,023,410, 2–27–62, Cl. 343—106.
Hansel, Paul G., and H. H. Waller, to Servo Corp. of America. Reverse bearing indicator. 3,050,727, 8–21–62, Cl. 343—113.
Hansel, Sydney: *See*—
Lunn, Edward O. 3,026,919.
Hansel, Sydney. Feed spouts for wood chippers. 3,047,244, 7–31–62, Cl. 241—278.
Hänseler, Konrad: *See*—
Ståhli, Gustav, and Hänseler. 3,036,422.
Hansell, Erik B.: *See*—
Devol, George C., and Hansell. 3,016,465.
Hansell, Marjorie B.: *See*—
Devol, George C., and Hansell. 3,016,465.
Hansella-Werke Albert Henkel A.G.: *See*—
Thurlings, Hermann. 3,015,378.
Thurlings, Hermann. 3,028,064.
Thurlings, Hermann. 3,042,260.
Hanselmann, Frank. Twin-cylinder fluid motor with pendulum piston. 3,070,075, 12–25–62, Cl. 121—97.
Hansen, Åge, to Allmanna Svenska Elektriska Aktiebolaget. Means for electric vacuum furnaces. 3,017,485, 1–16–62, Cl. 219—10.79.
Hansen, Albert B. A.: *See*—
Hartmann, Louis M., and Hansen. 3,064,727.
Hansen, Albert, Jr., F. W. Kelley, Jr., I. Somos, and W. H. Tobin, Jr., to General Electric Co. Control system for solid state controlled rectifier. 3,070,739, 12–25–62, Cl. 321—47.
Hansen, Alfred E. Gas separators for wells. 3,048,122, 8–7–62, Cl. 103—203.
Hansen, Bobby J. Method for rejuvenating used self locking nuts. 3,065,529, 11–27–62, Cl. 29—401.
Hansen, Charles E., and R. L. Hughes, to Callery Chemical Co. Methyl borate process. 3,042,704, 7–3–62, Cl. 260—462.
Hansen, Charles W., H. E. Wiltsey, and D. J. Christenson, to J. I. Case Co. Fertilizer distributor metering-plate guide. 3,024,951, 3–13–62, Cl. 222—485.
Hansen, Christie L. Line attaching device. 3,019,546, 2–6–62, Cl. 43—44.91.
Hansen, Donald E., to Mosler Research Products, Inc. Electronic intrusion protection array system. 3,047,849, 7–31–62, Cl. 340—258.
Hansen, Donald J. Apparatus for mixing fuel with air. 3,049,415, 8–14–62, Cl. 48—180.
Hansen, Edward P., and W. H. Volkman. Can perforator and spout former. 3,027,634, 4–3–62, Cl. 30—6.3.
Hansen, Erwin G., to Midland-Ross Corp. Multiple branch heating system and method. 3,036,779, 5–29–62, Cl. 237—69.
Hansen, George E., to Crane Co. Fabricated gate valve and method of making same. 3,032,310, 5–1–62, Cl. 251—327.
Hansen, George E., and A. Korzenowski, to Crane Co. Renewable disc insert for gate valves or the like. 3,017,158, 1–16–62, Cl. 251—84.
Hansen Glove Corp.: *See*—
Frentzel, Herman C. 3,026,834.
Hansen, Guenther: *See*—
Leber, Adolf, and Hansen. 3,048,470.
Hansen, Hans C. Automatic phonographs. 3,017,188, 1–16–62, Cl. 274—15.
Hansen, Hans C. Record feeding arrangements. 3,038,727, 6–12–62, Cl. 274—10.
Hansen, Hans C. Spindle with feeder position record changing phonographs. 3,044,782, 7–17–62, Cl. 274—10.

Hansen, Hans C. Electric Motors. 3,061,746, 10–30–62, Cl. 310—90.

Hansen, Hans R. A.: *See*—
Bradburn, William J., Jr., Hansen, and Conger. 3,041,-565.

Hansen, Hans R. A., to The Louis Allis Co. D.C. adjustable speed drive. 3,041,514, 6–26–62, Cl. 318—154.

Hansen, Hans R. A., and H. M. Norman, to The Louis Allis Co. Motor speed regulator arrangement. 3,045,161, 7–17–62, Cl. 318—143.

Hansen, Harold V.: *See*—
Oehler, William P., and Hansen. 3,019,032.
Oehler, William P., and Hansen. 3,055,322.
Oehler, William P., and Hansen. 3,059,705.

Hansen, Harold V., to Deere & Co. Multi-partitioned hopper with tapered auger distributor. 3,027,050, 3–27–62, Cl. 222—160.

Hansen, Harold V., to Deere & Co. Planters-adjustable valve timing for hill drop. 3,038,425, 6–12–62, Cl. 111—34.

Hansen, Howard C. Omnidirectional drive system for land vehicles. 3,016,966, 1–16–62, Cl. 180—26.

Hansen, Jan: *See*—
Baldwin, Francis M., Campbell, and Hansen. 3,052,278.

Hansen, Jay M., to Hughes Aircraft Co. Read amplifier. 3,034,088, 5–8–62, Cl. 330—95.

Hansen, Jay M., and Z. Atamian, to Hughes Aircraft Co. Self-seating contact head for magnetic memory drum. 3,022,494, 2–20–62, Cl. 340—174.1.

Hansen, John. Apparatus for making bread slicer blades and the like. 3,036,408, 5–29–62, Cl. 51—38.

Hansen, John. Honing apparatus for bread slicing machines 3,060,650, 10–30–62, Cl. 51—246.

Hansen, John A.: *See*—
Brainard, Wallace E., Hansen, Sedgwick, and Sipek. 3,054,333.
Brainard, Wallace F., Hansen, Sedgwick, Sipek, and Baechle. 3,052,011.
Parsike, Charles A., and Hansen. 3,031,902.

Hansen, John A., to Coors Adolph, Co. Article handling machine. 3,058,570, 10–16–62, Cl. 198—31.

Hansen, John E.: *See*—
Bernhardt, Ernest C., Hahn, and Hansen. 3,040,005.

Hansen, Jorgen H. R. Collapsible sailboat. 3,057,316, 10–9–62, Cl. 114—39.

Hansen, Kai H., to General Motors Corp. Mechanical follow-up mechanism. 3,062,069, 11–6–62, Cl. 74—388.

Hansen, Kai H., R. Schilling, and J. McRoberts, to General Motors Corp. Motor vehicle construction. 3,022,847, 2–27–62, Cl. 180—64.

Hansen, Lela R. Folding ironing boards. 3,039,214, 6–19–62, Cl. 38—115.

Hansen, Leo J., E. V. Podebradsky, and J. L. Shaw to Oscar Mayer & Co., Inc. Collagen enclosed sausage-type product and method of preparing same. 3,041,182, 6–26–62, Cl. 99—169.

Hansen, Lewis C.: *See*—
Thompson, Elmer D., and Hansen. 3,027,613.

Hansen, Lloyd F.: *See*—
Greif, Martin, Hansen, and Yen. 3,046,605.

Hansen, Lloyd F., to American Cyanamid Co. Valve operating lever for pressurized dispensers. 3,066,838, 12–4–62, Cl. 222—394.

Hansen, Lloyd F., and W. J. Sarvis, to American Cyanamid Co. Capsules of soft plastic containing granules. 3,038,-282, 6–12–62, Cl. 53—28.

Hansen, Louis L. and G. O. Sedgwick, to Archer-Daniels-Midland Co. Method of preparing epoxidized oils and the like. 3,051,729, 8–28–62, Cl. 260—348.5.

Hansen, Ove J. G., to Fisher & Nielsen, Aktieselskabet. Vacuum cleaner, the driving motor of which is arranged for running at two different velocities. 3,069,068, 12–18–62, Cl. 230—12.

Hansen, Paul E. Underhood tray for auto mechanics. 3,023,063, 2–27–62, Cl. 311—21.

Hansen, Quinten A. Fluid pressure operated clutch with stationary cylinder assembly. 3,038,575, 6–12–62, Cl. 192—85.

Hansen, Quinten A., to R. H. and R. N. Stearns. Detent for releasably holding an electromagnetic brake disengaged. 3,045,782, 7–24–62, Cl. 188—171.

Hansen, Quinten A., to Eaton Mfg. Co. Automotive device. 3,069,929, 12–25–62, Cl. 74—785.

Hansen, Rasmus I. C. Combination parking device, wheel jack, and wheel blocking device for automotive vehicles. 3,029,886, 4–17–62, Cl. 180—1.

Hansen, Robert B., to Radio Corp. of America. Chroma converter. 3,023,271, 2–27–62, Cl. 178—5.4.

Hansen, Robert C., to Hughes Aircraft Co. Scanning antenna. 3,029,432, 4–10–62, Cl. 343—768.

Hansen, Robert D., to The Dow Chemical Co. Method of separating rare earth metal ions. 3,033,646, 5–8–62, Cl. 23—23.

Hansen, Robert E., to Union Carbide Corp. Galvanic battery. 3,069,484, 12–18–62, Cl. 136—3.

Hansen, Robert J., to General Electric Co. Signal simulator. 3,060,424, 10–23–62, Cl. 343—17.7.

Hansen, Roy C., ½ to R. B. Cole, and ½ to C. A. Dalton. Hanger panel for veneer masonry blocks. 3,019,560, 2–6–62, Cl. 50—342.

Hansen, Royal E. Automatic adjusting atomizing devices for carburetors. 3,049,342, 8–14–62, Cl. 261—69.

Hansen, Rudolf, to F. Jungheinrich. Control unit for a conveyance. 3,043,388, 7–10–62, Cl. 180—19.

Hansen, Siegfried, to Hughes Aircraft Co. Automatic celestial navigation and guidance system. 3,048,352, 8–7–62, Cl. 244—14.

Hansen, Soren L. W., to Dansk Rontgen-Teknik A/S. Arrangement in suspending in cords or similar flexible carrying means, an X-ray tube or the like. 3,032,308, 5–1–62, Cl. 248—329.

Hansen, Thelma D. Fastening device. 3,041,694, 7–3–62, Cl. 24—103.

Hansen, Volmer C. Watering plants. 3,036,783, 5–29–62, Cl. 239—548.

Hansen, Walter P., to Henry J. Kaiser Co. Stacking and reclaiming material. 3,049,244, 8–14–62, Cl. 214—10.

Hansford, Rowland C., and D. A. Young, to Union Oil Co. of California. Hydrocracking process and catalyst. 3,053,-754, 9–11–62, Cl. 208—108.

Hansford, Rowland C., and D. A. Young, to Union Oil Co. of California. Hydrocracking process with the use of a silicon oxide, zirconium oxide and titaniumodide composite catalyst. 3,053,755, 9–11–62, Cl. 208—110.

Hanshaw, Ellsworth S.: *See*—
Griffin, George O., and Hanshaw. 3,048,160.

Hansley, George S., to The Tait Mfg. Co. Flow control device. 3,066,696, 12–4–62, Cl. 137—513.5.

Hansley, Virgil L.: *See*—
Hansley, Harry, and Hansley. 3,067,187.

Hanslip, Richard E., to Mather Spring Co. Torsion spring unit. 3,022,992, 2–27–62, Cl. 267—57.

Hanson, Adolph M.: *See*—
Acker, William F., and Hanson. 3,060,895.

Hanson, Alden W., to The Dow Chemical Co. Fluid-loss prevention in well treatment. 3,047,068, 7–31–62, Cl. 166—42.

Hanson, Alfred H., to Crowell Designs, Inc. Double action hydraulic cylinder. 3,043,338, 7–10–62, Cl. 137—784.

Hanson, Arthur O. Spider center. 3,018,114, 1–23–62, Cl. 279—

Hanson, Calmer P. Front wheel motor mount for bicycles. 3,056,460, 10–2–62, Cl. 180—31.

Hanson, Carl T. Animated foot operated motion device. 3,068,000, 12–11–62, Cl. 272—53.1.

Hanson, Chester C. Mail box signal apparatus. 3,026,025, 3–20–62, Cl. 252—35.

Hanson, Clark L., to International Harvester Co. Control means for liquid fertilizer application. 3,031,983, 5–1–62. Cl. 111—67.

Hanson, David W. Combination form and faucet assembly adapter. 3,035,276, 5–22–62, Cl. 4—191.

Hanson, Donald W., to G. T. Schjeldahl Co. Apparatus for cutting holes in thin flexible webs. 3,066,554, 12–4–62, Cl. 77—22.

Hanson, Donald W., to G. T. Schjeldahl Co. Bread package. 3,067,040, 12–4–62, Cl. 99—172.

Hanson, Edwin E. Spray nozzle. 3,066,870, 12–4–62, Cl. 239—113.

Hanson, Elmo E., to The Firestone Tire & Rubber Co. Apparatus for forming tire bodies. 3,057,396, 10–9–62, Cl. 156—397.

Hanson, Eric P., to Grinnell Corp. Foam-water sprinkler device. 3,051,397, 8–28–62, Cl. 239—432.

Hanson, Eric P., P. H. Merdinyan, and G. H. Milligan, to Grinnell Corp. Fire protection system. 3,064,739, 11–20–62, Cl. 169—2.

Hanson, Frederick L., W. A. Jack, to Johns-Manville Corp. Ventilated ceiling constructions. 3,058,411, 10–16–62, Cl. 98—40.

Hanson, George E., and W. L. Stalder, to Phillips Petroleum Co. Recovery of solvent from olefin polymer and catalyst. 3,031,438, 4–24–62, Cl. 260—88.2.

Hanson, George H., to Phillips Petroleum Co. Nuclear reactor. 3,047,486, 7–31–62, Cl. 204—193.2.

Hanson, Harold J.: *See*—
Meyer, Paul H., and Hanson. 3,031,818.

Hanson, Harris G. Handle with selectively usable wrench head for reaching units. 3,039,339, 6–19–62, Cl. 81—177.

Hanson, Harry L., and R. H. Hoge, to The Good Roads Machinery Corp. Road cleaning machines. 3,036 326, 5–29–62, Cl. 15—353.

Hanson, Harry W. Bow sight. 3,063,151, 11–13–62, Cl. 33—46.

Hanson, Henry M., to Hunter Engineering Co. Embossing rolls. 3,040,799, 6–26–62, Cl. 153—77.

Hanson, Herbert, Jr.: *See*—
Rasmussen, Kai, Hanson, and Colwell. 3,035,691.

Hanson, Leonard L. Tagline fairlead construction. 3,048,-369, 8–7–62, Cl. 254—139.

Hanson, Leroy C., to Ferro Corp. Electric heating unit. 3,024,345, 3–6–62, Cl. 219—37.

Hanson, Leroy C., to Ferro Corp. Electric heating unit. 3,042,784, 7–3–62, Cl. 219—37.

Hanson, Leroy C., to Ferro Corp. Electric heating unit. 3,042,785, 7–3–62, Cl. 219—37.

Hanson, Leroy C., to Ferro Corp. Heating unit. 3,043,944, 7–10–62, Cl. 219—37.

Hanson, Leroy C., to Ferro Corp. Heating unit. 3,056,012, 9–25–62, Cl. 219—37.

Hanson, Lester: *See*—
Brown, James D., and Hanson. 3,019,378.

Hanson, Raymond A., to The First National Bank of Pullman. Machine for laying jointless concrete pipe. 3,032,852, 5–8–62, Cl. 25—32.

Hanson, Raymond A., to The First National Bank, Consolidator for monolith concrete pipe laying machines. 3,049,783, 8–21–62, Cl. 25—32.
Hanson, Robert P., and F. F. Piraino. Selection of neurotropic viral strains and preparation of vaccines therefrom. 3,029,190, 4–10–62, Cl. 167—78.
Hanson, Ross A., to Union Oil Co. of California. Refining of residual shale oils. 3,052,629, 9–4–62, Cl. 208—11.
Hanson, Rudolph A.: *See*—
Deptula, Frank J., Hanson, Leavit, and Flansburgh. 3,038,288.
Hanson-Van Winkle-Munning Co.: *See*—
Harper, Willard J., Bagwell, and Hauck. 3,058,604.
Harper, Willard J., Hauck, Moll, and Dutcher. 3,022,881.
Kleiner, Walter B., and Kardos. 3,041,256.
Stoddard, William B., Jr. 3,041,259.
Hanson, Victor G.: *See*—
Clausen, Sigurd, Neumair, and Hanson. 3,033,210.
Gustavson, Sterling T., and Hanson. 3,016,779.
Hanson, Walter J.: *See*—
Bernart, William F., Hanson, and Schmeck. 3,016,820.
Hanson, Walter J., to Pitney-Bowes, Inc. Document handling apparatus. 3,049,845, 8–21–62, Cl. 53—62.
Hanson, William, Jr., to Joy Mfg. Co. Conveyor apparatus. 3,061,076, 10–30–62, Cl. 198—184.
Hanssen, Tore B., to King-Seeley Thermos Co. Electro-responsive heating system. 3,069,524, 12–18–62, Cl. 219—20.
Hanssens, Gustave J. J., to Plastidry Societe Anonyme. Hose pipes. 3,018,800, 1–30–62, Cl. 138—125.
Hanssmann, Kurt: *See*—
Glesmann, Herbert C., and Hanssmann. 3,032,158.
Hansson, Elof, Inc.: *See*—
Kodaras, Michael J. 3,061,056.
Hansson, Hugo, to Allmanna Sevenska Elektriska Aktiebolaget. Telemetering over a single channel by variable pulses and variable interval encoding. 3,047,845, 7–31–62, Cl. 340—184.
Hansson, Hugo, to Allmanna Svenska Elektriska Aktiebolaget. Device for producing a series of electric pulses. 3,059,126, 10–16–62, Cl. 307—88.5.
Hansson, Hugo, C. Petterson, and E. Angeid, to Allmanna Svenska Elektriska Aktiebolaget. Remote metering by means of impulse series. 3,068,458, 12–11–62, Cl. 340—206.
Hansson, Rolf B. O.: *See*—
Blomqvist, Ake H. P., and Hansson. 3,041,518.
Hanstein, Walter: *See*—
Marcovitz, Morton W., and Hanstein. 3,052,350.
Hanstein, Walter, to Burroughs Corp. Magnetic selection apparatus. 3,052,351, 9–4–62, Cl. 209—74.
Hanstein, Walter, and T. J. McKnight, to Burroughs Corp. Stacking mechanism. 3,062,537, 11–6–62, Cl. 271—71.
Hanstein, Walter, Jr., and R. H. Jones, to Burroughs Corp. Optical apparatus for reading indicia appearing on a record medium. 3,057,552, 10–9–62, Cl. 235—61.11.
Hanus, Edward J.: *See*—
Siegel, Sheldon, Pettebone, and Hanus. 3,070,503.
Siegel, Sheldon, Pettebone, and Hanus. 3,070,508.
Stoyle, Lewis E., Jr., Ouellette, and Hanus. 3,035,985.
Stoyle, Lewis E., Jr., Ouellette and Hanus. 3,037,911.
Hanus, Edward J., and V. J. Rizzo, to Merck & Co., Inc. Repository vitamin B12 gelatin compositions and preparation thereof. 3,035,982, 5–22–62, Cl. 167—81.
Hanusch, Fritz, and A. Rettig, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Apparatus for processing thermoplastic synthetic materials in screw extruders and kokneaders. 3,047,907, 8–7–62, Cl. 18—12.
Hanvill, William D.: *See*—
Hall, Christopher H., Hanvill, and Conley. 3,039,138.
Hanvin, Daniel J. Machine bench employing a portable manually-operable electric power tool. 3,060,979, 10–30–62, Cl. 143—132.
Hany, Harald, to Henschel-Werke G.m.b.H. Vapor generator. 3,052,220, 9–4–62, Cl. 122—167.
Hany, Harald. R. Roosen, and E. Spehr, to Henschel Werke G.m.b.H. Pumps. 3,051,089, 8–28–62, Cl. 103—101.
Hanysz, Eugene A.: *See*—
Chapman, Frederick W., Hanysz, Weller, and Martin. 3,022,451.
Hanysz, Eugene A., to General Motors Corp. Magnetic core structure. 3,017,518, 1–16–62, Cl. 307—88.
Hanysz, Eugene A., and E. F. Weller, Jr., to General Motors Corp. Measurement of coating thicknesses by thermal means. 3,016,732, 1–16–62, Cl. 73—15.
Hanze, Arthur R.: *See*—
Dale, Jack K., and Hanze. 3,062,712.
Hanze, Arthur R., H. C. Murray, and O. K. Sebek, to The Upjohn Co. 9α-hydroxylation of Δ4-3-keto pregnane series steroids by fungi of the Cunninghamella and Helicostylum genera. 3,038,913, 6–12–62, Cl. 260—397.45.
Hanzel, Joseph W., to United States of America, Navy. Vacuum type potting fixture for coating articles. 3,051,-991, 9–4–62, Cl. 18—36.
Hanzel, Richard W., to Sunbeam Corp. Cooking vessel and method of making the same. 3,064,112, 11–13–62, Cl. 219—44.
Hanzl, Vladimir, and J. Maler, to Sdruzeni podniku textilniho strojirenstvi. Stopping mechanism for knitting machines and more particularly for two-cylinder circular knitting machines. 3,043,122, 7–10–62, Cl. 66—157.
Happ, Georg, to The National Cash Register Co. Totalizer engaging controls. 3,050,245, 8–21–62, Cl. 235—7.
Happ, William W., to Raytheon Co. Electrical cooling devices. 3,058,041, 10–9–62, Cl. 317—235.
Happe, Reynold, to Diehl Mfg. Co. Spindle locking means for portable tools. 3,021,723, 2–20–62, Cl. 74—527.
Happe, Reynold, and J. P. Lubas, to The Singer Mfg. Co. Bench mounting fixture for portable belt sander. 3,016,-659, 1–16–62, Cl. 51—166.
Happe, Reynold, and L. F. Daman, to Diehl Mfg. Co. Combination unit grass edger and trimmer. 3,034,275, 5–15–62, Cl. 56—25.4.
Happe, Wilhelm: *See*—
Bier, Gerhard, Gumboldt, Hartmann, and Happe. 3,036,-052.
Gies, Helmut, and Happe. 3,058,797.
Happel, John, and C. J. Marsel. Oxidation coupling of an acetylene hydrocarbon. 3,065,283, 11–20–62, Cl. 260—678.
Happell, John J., G. R. Thomas, R. P. Denise, and J. L. Bunts, Jr., to United States of America, Atomic Energy Commission. Experimental liquid metal fuel reactor. 3,018,239, 1–23–62, Cl. 204—193.2.
Happich, Muriel L.: *See*—
Beebe, Clarence W., Happich, Naghski, and Windus. 3,027,221.
Harada, Henry H., to General Motors Corp. Governor mechanism. 3,052,775, 9–4–62 Cl. 200—80.
Harada, Kaoru: *See*—
Fox, Sidney W., and Harada. 3,052,655.
Harasz, Edward F. Polishing surfaces. 3,019,564, 2–6–62, Cl. 51—56.
Haram, Arthur C. Visual signal generation and electrical outlet control means therefor. 3,054,994, 9–18–62, Cl. 340—326.
Haraske, Edward T.: *See*—
Seymour, Raymond E., and Haraske. 3,045,799.
Harast, Joseph. Manufacture of aromatic amines from nitrocompounds. 3,041,377, 6–26–62, Cl. 260—580.
Harben, Grover S., Jr.: *See*—
Brown, George W., and Harben. 3,017,027.
Harbers, Henry C., and B. C. Hamlet, to Western Unit Corp. Trailer hitch. 3,052,487, 9–4–62, Cl. 280—506.
Harbers, Henry C., and H. J. Williams, to Western Unit Corp. Leaf-spring-securing assembly for vehicle axles. 3,058,740, 10–16–62, Cl. 267—52.
Harbers, Henry C., and B. C. Hamlet, to Western Unit Corp. Vehicle-suspension means. 3,063,703, 11–13–62, Cl. 267—65.
Harbers, Henry C., and B. C. Hamlet, to Western Unit Corp. Vehicle-suspension means employing leaf and air spring assemblies in combination. 3,063,732, 11–13–62, Cl. 280—124.
Harbidge, John, to Joseph Lucas (Industries) Ltd. Pressure sensitive valves. 3,060,953, 10–30–62, Cl. 137—101.
Harbin, Adie D., Jr., and H. E. Munns, to Diamond Alkali Co. Method and apparatus for the control of oxidation-reduction reactions. 3,051,831, 8–28–62, Cl. 204—1.
Harbison-Walker Refractories Co.: *See*—
Crichton, Neil T. 3,029,755.
Davies, Ben, and Weaver. 3,070,449.
Leatham, Earl, and Pack. 3,060,042.
Leeper, Walter S. 3,049,165.
McCreight, Donald O., and Birch. 3,024,122.
Miller, Eldon D., Jr. 3,067,050.
Platt, Richard O., and Ralston. 3,057,519.
Renkey, Albert L. 3,060,043.
Snellman, Roger. 3,057,468.
Snyder, Richard P. 3,063,677.
Snyder, Richard P., Leatham, Gabor, and Pack. 3,060,-000.
Walt, John P. 3,068,813.
Wicken, Oscar M., and Gill. 3,030,091.
Harbo, Alf F. Apparatus for cleaning musical instruments of the cup mouthpiece type. 3,039,477, 6–19–62, Cl. 134—169.
Harbor Industries, Inc.: *See*—
Emery, Merton D. 3,033,639.
Harbort, Ludwig, to G. Wagner. Heetographic coloring paper having a transfer coat containing lower alkyl mercapto triphenyl carbinol. 3,035,935, 5–22–62, Cl. 117—36.2.
Harbort, Ludwig, and H.-J. Rahn, to G. Wagner. Process for preparing tris-(4-methylmercaptophenyl)-carbinol compounds. 3,047,632, 7–31–62, Cl. 260—609.
Harbour, Raymond J.: *See*—
Dever, Charles J., Harbour, and Seifert. 3,023,760.
Hard Chek Co.: *See*—
Criche, William J. 3,038,330.
Hard Mfg. Co.: *See*—
Mann, Stuart N. 3,055,020.
Mann, Stuart N., and Daty. 3,050,744.
Hard, Robert A., and H. F. Kummerle, to Union Carbide Corp. Method of separating nickel and cobalt compounds and producing salts therefrom. 3,069,231, 12–18–62, Cl. 23—117.
Hardcastle, Philip P., to Cardwell Mfg. Co. Pump plunger construction. 3,015,529, 1–2–62, Cl. 309—4.
Hardcastle, Philip P., and R. M. Prescott, to Cardwell Mfg. Co. Liquid cooling apparatus. 3,024,012, 3–6–62, Cl. 261—111.
Hardegger, Emil: *See*—
Corrodi, Hans R., Hardegger, Kogl, and Zeller. 3,057,-879.
Hardeman, Wilbur Y.: *See*—
Kerstetter, Harold A., Hardeman, and Folkenroth. 3,030,694.

Harden, Eldon A.: *See*—
Morkoski, James, and Harden. 3,059,706.
Harden, Eldon A., and F. M. Pierson, to International Harvester Co. Implement attachment for tractor. 3,039,541, 6–19–62, Cl. 172—677.
Harden, George L. Line pull-through device. 3,041,043, 6–26–62, Cl. 254—134.3.
Hardenbergh, Raymond H.: *See*—
Kendall, Jackson W., Jr., Perry, and Hardenbergh. 3,023,341.
Hardenbrook, Joe P. Lock for toilet seat covers. 3,024,472, 3–13–62, Cl. 4—253.
Harder, Arthur J., Jr., to General Electric Co. Leak detection device. 3,027,753, 4–3–62, Cl. 73—40.7.
Harder, Edwin L., to Westinghouse Electric Corp. Electric power transmission computer. 3,027,084, 3–27–62, Cl. 235—185.
Harder, William F.: *See*—
Truman, Theodore J., and Harder. 3,019,868.
Harders, Fritz, to Dortmund-Horder Huttenunion Aktiengesellschaft. Apparatus for treating metal melts. 3,022,059, 2–20–62, Cl. 266—34.
Harders, Fritz, to Dortmund-Horder Huttenunion Aktiengesellschaft. Apparatus for treating steel melts. 3,027,150, 3–27–62, Cl. 266—34.
Harders, Fritz, to Dortmund-Hörder Hüttenunion Aktiengesellschaft. Treatment of metal melts. 3,033,550, 5–8–62, Cl. 266—34.
Hardesty, Edwin C., and D. L. Myers, to Western Electric Co., Inc. Apparatus for winding strand material in a helix. 3,024,497, 3–13–62, Cl. 18—19.
Hardesty, George K. C. Panel illuminating system. 3,027,-668, 3–27–62, Cl. 40—130.
Hardesty, George K. C. Illumination system for instrument panel display. 3,027,669, 4–3–62, Cl. 40—130.
Hardesty, Gilbert R., and R. D. McMillan, Jr., to Ling-Temco-Vought, Inc. Incremental actuator. 3,055,346, 9–25–62, Cl. 121—38.
Hardesty, Jules M. Temperature responsive firing mechanism. 3,020,845, 2–13–62, Cl. 102—70.
Hardesty, Thomas K. C., to United States of America, Navy. Force responsive switch. 3,049,601, 8–14–62, Cl. 200—83.
Hardgrove, Albert J.: *See*—
Lanhoff, Howard J., and Hardgrove. 3,054,676.
Hardgrove, Ralph M., to The Babcock & Wilcox Co. Method for burning fuel. 3,048,131, 8–7–62. Cl. 110—72.
Hardie, Harry, to The Nobelt Co. Waistband for garments. 3,040,330, 6–26–62, Cl. 2—237.
Hardies, Donald E.: *See*—
Pray, Blaine L., and Hardies. 3,043,888.
Hardigan, Robert: *See*—
Gucker, George C., Hardigan, Xenakis, and Quinn. 3,033,462.
Hardin, Edward P., Jr., and R. P. Medlin, to Socony Mobil Oil Co., Inc. Combination reforming and cracking process. 3,060,116, 10–23–62, Cl. 208—79.
Hardin, Irving E.: *See*—
Vining, Edward K., Hardin, and Secchitano. 3,061,825.
Hardin, Linus F.: *See*—
Masters, George R. 3,042,404.
Hardin, N. A.: *See*—
Brandon, Clarence W. 3,045,749.
Hardines, Donald E., and B. O. Pray, to Pittsburgh Plate Glass Co. Stabilization of methylchloroform. 3,070,634, 12–25–62, Cl. 260—652.5.
Harding, Anthony A., to Marconi's Wireless Telegraph Co. Ltd. Velocity responsive radio devices. 3,067,417, 12–4–62, Cl. 343—8.
Harding, Anthony J., and R. J. Young, to Imperial Chemical Industries Ltd. Fractional distillation. 3,032,481, 5–1–62, Cl. 202—61.
Harding, Francis, and R. M. Browning, to St. Regis Paper Co. Apparatus for controlling paper rolls. 3,025,013, 3–13–62. Cl. 242—58.3.
Harding, Howard E., to Boeing Airplane Co. Carbo-blast method and unit. 3,033,711, 5–8–62, Cl. 134—7.
Harding, Robert, Jr., to International Telephone and Telegraph Corp. High speed recording apparatus. 3,051,785, 8–28–62, Cl. 178—23.
Harding, Ronald H., to Union Carbide Corp. Clamp for test specimen. 3,057,032, 10–9–62, Cl. 24—250.
Hårding, Sune, to Wicauders Korkfabriker, Atiebolaget. Combination closure for bottles and similar containers. 3,032,225, 5–1–62, Cl. 215—31.
Hardinge Brothers, Inc.: *See*—
Parsons, Hubert J., and Hall. 3,039,342.
Hardis, Leonard: *See*—
Graulham, Rodney E., and Hardis. 3,052,032.
Hardison, Leslie C.: *See*—
McCausland, John W., and Hardison. 3,067,774.
Hardison, Manley K.: *See*—
Edelstone, Sigmund E., and Hardison. 3,049,263.
Hardison, Wilbur T.: *See*—
Bourns, Marlan E., Hardison, and Hulbert. 3,051,921.
Hardison, Wilbur T., and W. D. Hulbert, to Bourns, Inc. Variable resistor. 3,018,459, 1–23–62, Cl. 338—180.
Hardison, Wilbur T., V. G. Mathison, R. E. Caddock, and M. E. Bourns, to Bourns, Inc. Variable resistor device. 3,069,646, 12–18–62, Cl. 338—143.
Hardman, Albert F., to The Goodyear Tire & Rubber Co. Method of preparing sulfenamides. 3,022,300, 2–20–62, Cl. 260—247.1.
Hardman, Albert F., and J. J. Hamill, to The Goodyear Tire & Rubber Co. Process of preparing certain thiazole disulfides. 3,062,825, 11–6–62, Cl. 260—306.5.
Hardman, David C. Process and apparatus for scouring textile material in rope form. 3,016,282, 1–9–62, Cl. 8—151.
Hardman, Harley F., and H. E. Alford, to The Standard Oil Co. Asphalt structural unit. 3,063,856, 11–13–62, Cl. 106—281.
Hardman, James A., to Utah Scientific Research Foundation. Drive mechanism for track laying vehicles. 3,044,318, 7–17–62, Cl. 74—665.
Hardman, Laurie W., ½ to Cranes & Shovels Proprietary Ltd. Tractors or like vehicles. 3,055,520, 9–25–62, Cl. 214—140.
Hard Metal Tools Ltd.: *See*—
Trent, Edward M., and Comins. 3,033,694.
Hardon, Frank T., to Packaging Corp. of America. Collapsible container. 3,039,670, 6–19–62, Cl. 229—27.
Hardt, Carl T., to Vaco Products Co. Wire stripper. 3,058,-377, 10–16–62, Cl. 81—9.5.
Hardt, Paul E., to Klockner-Werke A.G. Method of refining pig iron and a fining vessel for performing the method. 3,034,885, 5–15–62, Cl. 75—52.
Hardtmuth, L. & C., Inc.: *See*—
Riepe, Helmuth, and Kaiser. 3,020,884.
Harduk, John, and R. Lessig, to Burroughs Corp. Intermittent motion apparatus. 3,019,316, 1–30–62, Cl. 200—105.
Hardway, Edward V., Jr., to Robertshaw-Fulton Controls Co. Acceleration responsive devices. 3,035,450, 5–22–62, Cl. 73—492.
Hardway, Edward V., Jr., to Houston Instrument Corp. Supply voltage variation compensated servosystem. 3,047,784, 7–31–62, Cl. 318—28.
Hardwick Stove Co.: *See*—
Brown, Reeves. 3,044,459.
Hardwicke-Etter Co.: *See*—
Shelburne, Richard M. 3,027,604.
Hardwicke, Norman L.: *See*—
Kelly, Pennell C., and Hardwicke. 3,018,195.
Hardy, Allen W.: *See*—
Farr, Richard S., and Hardy. 3,030,755.
Hardy, Charles A., Jr. Marine anchor. 3,040,692, 6–26–62, Cl. 114—207.
Hardy, Dale J.: *See*—
Senseney, George T., and Hardy. 3,015,792.
Hardy, Edgar E., to Mobay Chemical Co. Upholstery Units. 3,047,282, 7–31–62, Cl. 267—1.
Hardy, Elizabeth M., to American Cyanamid Co. Trichloromethyl 2-nitroxy-5-phosphinobenzenethiosulfonate pesticides. 3,017,321, 1–16–62, Cl. 167—30.
Hardy, Henry, to Foster Yates & Thom Ltd., and International Vulcanizing Corp. Means for controlling or determining the filling of moulds in injection moulding. 3,025,568, 3–20–62, Cl. 18—30.
Hardy, Henry, to International Vulcanizing Corp. Apparatus for molding shoes. 3,063,096, 11–13–62, Cl. 18—17.
Hardy, James A.: *See*—
Woollenweber, William E., Jr., Hardy, and Paul. 3,056,-634.
Hardy, John A., to Boeing Airplane Co. Chemical milling. 3,042,566, 7–3–62, Cl. 156—18.
Hardy, John L.: *See*—
Josephs, Melvin J., and Hardy. 3,069,252.
Hardy, John M., W. B. Taylor, and W. H. Griffin, to Atlas Bradford Pipe coupling having a Teflon sealing gasket. 3,054,628, 9–18–62, Cl. 285—332.3.
Hardy, John W., to Westinghouse Electric Corp. Bipolar integrator with diode budge discharging circuit for periodic zero reset. 3,064,144, 11–13–62, Cl. 307—88.5.
Hardy, Joseph. Fishing rod holder. 3,037,314, 6–5–62, Cl. 43—17.
Hardy Maskinprodukter Aktiebolag: *See*—
Sundberg, Hardy M. 3,034,866.
Hardy, Maurice E., and W. H. Puls, to Zenith Radio Corp. Tone arm positioning assembly. 3,030,115, 4–17–62, Cl. 274—10.
Hardy, Paul W.: *See*—
Blair, Earl R., and Hardy. 3,025,184.
Hardy, Peter S., to Peerless Aluminum Foundry Co., Inc. Portable cook stove. 3,051,159, 8–28–62, Cl. 126—25.
Hardy, Richard J., B. Martin, and R. B. Jacobs, to United States of America, Commerce. System for measuring net positive suction head of pumps. 3,054,289, 9–18–62, Cl. 73—168.
Hardy, Robert A., Jr., C. F. Howell, and N. Q. Quinones, to American Cyanamid Co. 5-aryl-2-imino-4-oxazolidinones. 3,026,319, 4–10–62, Cl. 167—65.
Hardy, Robert A., Jr., C. F. Howell, and N. Q. Quinones, to American Cyanamid Co. Process for preparing 5-phenyl-2-dialkyl-amino-2-oxazolin-4-ones. 3,037,990, 6–5–62, Cl. 260—307.
Hardy, Robert A., Jr., C. F. Howell, and N. Q. Quinones, to American Cyanamid Co. Central nervous system stimulant. 3,047,461, 7–31–62, Cl. 167—65.
Hardy, William B.: *See*—
Tomcufcik, Andrew S., and Hardy. 3,027,373.
Von, Isaiah, Somerville, Tomcufcik, and Hardy. 3,027,374.
Von, Isaiah, Tomcufcik, and Hardy. 3,030,368.
Hardy, William B., and I. Von, to American Cyanamid Co. Derivatives of Bz-1'-(alphaanthraquinonylamino)-benzanthrone-2,2'-acridine. 3,027,369, 3–27–62, Cl. 260—247.1.
Hardy, William B., and R. E. Herd, to American Cyanamid Co. New vat dyes. 3,027,375, 3–27–62, Cl. 260—274.

Hardy, William B., and R. E. Herd, to American Cyanamid Co. New vat dyes. 3,027,376, 3–27–62, Cl. 260—274.
Hardy, William B., I. Von, and A. S. Tomcufcik, to American Cyanamid Co. New vat dyes. 3,027,377, 3–27–62, Cl. 260—274.
Hardy, William B., and R. E. Herd, to American Cyanamid Co. New vat dyes. 3,030,369, 4–17–62, Cl. 260—274.
Hardy, William B., and T. H. Chao, to American Cyanamid Co. Preparation of ortho-aminobenzenesulfonic acids. 3,038,932, 6–12–62, Cl. 260—508.
Hardy, William B., W. S. Forster, and J. F. Hosler, to American Cyanamid Co. Heterocyclic ultraviolet absorbers. 3,049,509, 8–14–62, Cl. 260—45.8.
Hardy, William B., F. M. Furman, and D. W. Hein, to American Cyanamid Co. Process for hydroxynaphthalenealkanoic acids. 3,049,561, 8–14–62, Cl. 260—520.
Hardychuk, Peter. Combination cigarette and match pack. 3,017,988, 1–23–62, Cl. 206—48.
Hare, Charles L. Attachment for dial telephone sets. 3,066,-190, 11–27–62, Cl. 179—6.3.
Hare, Frances S. Knock-down picnic box or the like. 3,063,-771, 11–13–62, Cl. 312—264.
Hare, Milton D., and H. A. Meneses, to Research Corp. Center adjusting device. 3,037,409, 6–5–62, Cl. 82—45.
Hare, Richard C., to Applied Power Industries, Inc. Hydraulic control system. 3,048,978, 8–14–62, Cl. 60—54.5.
Hare, Terence G. Reversible ratchet type wrench. 3,019,682, 2–6–62, Cl. 81—63.2.
Hares, George B., and J. L. Sheldon, to Corning Glass Works. Image orthicon target. 3,069,578, 12–18–62, Cl. 313—68.
Haresnape, John N.: *See*—
Desty, Denis H., Haresnape, and Whyman. 3,046,699.
Yeo, Alan A., and Haresnape. 3,024,188.
Harestad, Paul: *See*—
Cagan, Bernard J., Ziroli, and Harestad. 3,037,750.
Harford, Henry D., to International Business Machines Corp. Flip-flop with each side cross-coupled to other side by capacitor and emitter follower in parallel. 3,015,735, 1–2–62, Cl. 307—88.5.
Hargens, Charles W., and G. A. Smith, to L. Forman. Apparatus for specific gravity measurements. 3,054,296, 9–18–62, Cl. 73—453.
Hargens, Charles W., III, P. R. Irish, and W. F. Horscroft, Jr., to Bethlehem Steel Co. Device for computing relative concentrations of elements in a mixture. 3,027,086, 3–27–62, Cl. 235—193.
Hargrave, John A. Diaper washer. 3,021,528, 2–20–62, Cl. 4—1.
Hargraves, Frank M.: *See*—
Ewing, Nelson, and Hargraves. 3,059,349.
Hargreaves, Brian. Automatic electric circuit breakers. 3,030,470, 4–17–62, Cl. 200—88.
Hargreaves, Derek B., and E. Staniforth, to W. Hargreaves & Co. Ltd. Apparatus for working turf. 3,049,851, 8–21–62, Cl. 56—7.
Hargreaves, Jeanne W.: *See*—
Turley, William E. 3,030,164.
Hargreaves, Robert, and H. M. Miller, to Whitin Machine Works. Flier construction. 3,035,398, 5–22–62, Cl. 57—62.
Hargreaves, Roger, to Tiltman Langley Ltd. Process of tinning a metal surface and a device for carrying out the process. 3,057,747, 10–9–62, Cl. 117—51.
Hargreaves, W., & Co. Ltd.: *See*—
Hargreaves, Derek B., and Staniforth. 3,049,851.
Hargreaves, William B.: *See*—
Turley, William E. 3,030,164.
Hargrove, Robert E., to United States of America, Agriculture. Control of bacteriophage. 3,041,248, 6–26–62, Cl. 195—48.
Harig Manufacturing Corporation: *See*—
Mueller, Alvin E. 3,030,744.
Haring, Alfons: *See*—
Hopt, Rudolf, Falk, and Haring. 3,067,373.
Haringhuizen, Pieter J., to Stamicarbon N.V. Purification of a gas by removing one or more admixed impurities from it by condensing the impurity or impurities to the solid state. 3,036,438, 5–29–62, Cl. 62—13.
Haris Co., Ltd.: *See*—
Iwakiri, Mitsuo, and Hino. 3,020,257.
Harispuru, Enrique F. Parking signal. 3,037,098, 5–29–62, Cl. 200—61.27.
Harjes, Clarence F.: *See*—
Kooi, Earl R., Harjes, and Gilkison. 3,042,584.
Harke, Martin W., and R. J. Smith, to General Electric Co. Method and apparatus for manufacturing refrigerator cabinets or the like. 3,028,945, 4–10–62, Cl. 198—19.
Harkenrider, Robert J., to Miller Lubricator Co. Journal box lubricator. 3,020,103, 2–6–62, Cl. 308—88.
Harkenrider, Robert J., to Multiple Extrusions, Inc. Multiple tube extrusion apparatus and method. 3,038,201, 6–12–62, Cl. 18—14.
Harkenrider, Robert J., to Multiple Extrusions, Inc. Method and apparatus for making multiple tube structures by extrusion. 3,038,202, 6–12–62, Cl. 18—14.
Harker, David, to General Electric Co. Monochromator system. 3,030,512, 4–17–62, Cl. 250—83.6.
Harker, John H.: *See*—
Greene, Robert R., Harker, and Lockhart. 3,059,582.
Greene, Robert R., Harker, and Lockhart. 3,063,262.
Harker, John H., to Bell & Gossett Co. Seat for rotary mechanical seals. 3,025,069, 3–13–62, Cl. 277—22.
Harker, Robert J., to Commercial Solvents Corp. Non-corrosive lubricating compositions. 3,039,961, 6–19–62, Cl. 252—47.5.
Harker, Thomas B., and E. B. Nutt, Jr., to The Magnavox Co. High speed counters. 3,017,086, 1–16–62, Cl. 235—117.
Harkes, Pieter D., to Lever Brothers Co. Improvements in preparing alkyl maleic acid anhydrides. 3,017,417, 1–16–62, Cl. 260—346.8.
Harkins, Robert E., and P. E. Straight, to Hagan Chemicals & Controls, Inc. Control systems and components thereof. 3,047,647, 7–31–62, Cl. 13—6.
Harkness, Andrew W. Mechanism for suspending a flush valve from the trip lever. 3,022,517, 2–27–62, Cl. 4—57.
Harkness, Joseph R., to Briggs & Stratton Corp. Engine powered rotary lawn mower with improved engine starter. 3,044,238 7–17–62, Cl. 56—25.4.
Harkness, Joseph R., to Briggs & Stratton Corp. Rotary power lawn mower with improved engine. 3,044,239, 7–17–62, Cl. 56—25.4.
Harkreader, Tyler M.: *See*—
Diehl, Thomas W., Harkreader, and Chalmers. 3,052,-790.
Harlan, Don L., J. A. Battle, Jr., and J. C. Allen, to Texaco Inc. Well bore completion method. 3,019,838, 2–6–62, Cl. 166—39.
Harlan, J. Way. Removable bumper supported step for truck bodies. 3,017,949, 1–23–62, Cl. 182—92.
Harlan, Warren H.: *See*—
Fechheimer, Paul R., and Harlan. 3,056,436.
Fechheimer, Paul R., Jacobs, and Harlan. 3,037,536.
Harland Engineering Co. Ltd., The: *See*—
Watling, Nicolas. 3,060,507.
Harlander, Leslie A., and R. K. Walther, to Matson Navigation Co. Container chassis combination. 3,034,825, 5–15–62, Cl. 296—35.
Harle, Harold P., to General Electric Co. Automatic ice maker control means. 3,034,312, 5–15–62, Cl. 62—135.
Harlen, Frank, D. J. O'Sullivan, D. E. Lambeth, and D. G. A. Thomas, to Dowty Electrics Ltd. Precipitation chambers. 3,031,573, 4–24–62, Cl. 250—71.5.
Harless, Charles A.: *See*—
Ringe, Carl H., and Harless. 3,019,729.
Harless, William H. Sail latch. 3,040,690, 6–26–62, Cl. 114—108.
Harley, Frank B., to Harley Patents (International) Ltd. Releasable connectors. 3,035,320, 5–22–62, Cl. 24—230.
Harley Patents (International) Ltd.: *See*—
Harley, Frank B. 3,035,320.
Härlin, Carl-Erik W.: *See*—
Edström, Nils H., Härlin, and Katzeff. 3,069,502.
Harlin, Floyd, to General Electric Co. Rotor blade and shroud assembly. 3,065,955, 11–27–62, Cl. 253—77.
Harling, Denis W., to The General Electric Co. Ltd. Staircase generator with constant current storing capacitor and intermittent charge transfer to another capacitor. 3,058,012, 10–9–62. Cl. 307—88.5.
Harling, Denis W., and R. G. Hine, to The General Electric Co. Ltd. Arrangements for demodulating electric carrier oscillations that are modulated by television signals. 3,057,-954, 10–9–62, Cl. 178—7.3.
Harling, Donald W.: *See*—
Clark, Philip B., and Harling. 3,062,953.
Harling, Donald W., to McGraw-Edison Co. Junction box and support means for luminaries. 3,062,952, 11–6–62, Cl. 240—25.
Harloff, Werner B. Hair comb and the like. 3,060,941, 10–30–62, Cl. 132—11.
Harlow, Hugh E.: *See*—
Berger, Ralph, and Harlow. 3,016,008.
Harlow, Kenneth B. Combustion systems for internal combustion engines. 3,019,276, 1–30–62, Cl. 123—148.
Harlow, Willis E.: *See*—
Knerr, Carl J., and Harlow. 3,068,679.
Knerr, Carl J., and Harlow. 3,068,680.
Harm, Alson R., to Westinghouse Electric Corp. Automatic reclosing circuit-breaker. 3,030,471, 4–17–62, Cl. 200—108.
Harman, Carl A., to Monsanto Chemical Co. Method of making improved polymeric dihydroquinoline compositions. 3,047,521, 7–31–62, Cl. 260—23.
Harman, Emil I., to Philco Corp. Television receivers and the like. 3,036,154, 5–22–62, Cl. 178—7.91.
Harman, Floyd B., to International Harvester Co. Free piston engine pump. 3,065,703, 11–27–62, Cl. 103—44.
Harman, Hal W., ⅛ to W. H. F. Schmieding, and ⅛ to P. Fultz. Method of repairing cracked elements. 3,039,182, 6–19–62, Cl. 29—402.
Harman, Marion W., to Monsanto Chemical Co. Haloallylthiadiazoles. 3,058,990, 10–16–62, Cl. 260—302.
Harman, Marion W., and J. J. D'Amico, to Monsanto Chemical Co. Controlling vegetation with esters of alkoxyalkyl dithiocarbamic acids. 3,057,710, 10–9–62, Cl. 71—2.7.
Harman, William H., Jr., to I-T-E Circuit Breaker Co. Visible indicating means for circuit breaker contacts. 3,054,880, 9–18–62, Cl. 200—168.
Harmer, John D., to Raytheon Co. Gain control circuits. 3,036,275, 5–22–62, Cl. 330—29.
Harmes, Lee D., to Mission Mfg. Co. Pipe treating apparatus. 3,056,155, 10–2–62, Cl. 15—104.06.
Harmes, Oren B., J. H. Therkeld, and D. A. Deal. Cleaning apparatus. 3,058,668, 10–16–62, Cl. 239—305.
Harmon, Adeline A. Pin curler spool. 3,026,883, 3–27–62, Cl. 132—40.

Harmon, Billy J., to Industrial Machinery Co., Inc. Hanger for conveyor screw. 3,037,613, 6–5–62, Cl. 198—213.

Harmon, Carlyle, to Chicopee Mfg. Corp. Apparatus for making strands, yarns, and the like. 3,018,521, 1–30–62, Cl. 19—150.

Harmon, Carlyle, to Chicopee Mfg. Corp. Textile fabrics and methods of making the same. 3,059,313, 10–23–62, Cl. 28—80.

Harmon, Carlyle, and F. Kalwaites, to Chicopee Mfg. Corp. Method and apparatus for producing nonwoven fibrous sheets. 3,042,576, 7–3–62, Cl. 162—114.

Harmon, Carlyle, W. S. Barnard, and C. E. Johnson, to Chicopee Mfg. Corp. Method of manufacturing an insulating interlining fabric. 3,043,733, 7–10–62, Cl. 156—209.

Harmon, Duane D., to Fisher Scientific Co. Apparatus for spectrographic analysis. 3,024,693, 3–13–62, Cl. 88—14.

Harmon, Duane D., to Fisher Scientific Co. Optical system for spectrographic source. 3,045,533, 7–24–62, Cl. 88—14.

Harmon, Jesse, to E. I. du Pont de Nemours, and Co. Crystalline poly(methylene sulfide) and process for its preparation. 3,070,580, 12–25–62, Cl. 260—79.

Harmon, Leon D., to Bell Telephone Laboratories, Inc. Electrographic transmitter. 3,016,421, 1–9–62, Cl. 178—19.

Harmon, Leon D., to Bell Telephone Laboratories, Inc. Automatic character analyzer. 3,050,711, 8–21–62, Cl. 340—146.3.

Harmon, Leon D., to Bell Telephone Laboratories, Inc. Output selecting circuit. 3,050,713, 8–21–62, Cl. 340—172.

Harmon, Leon D., and C. F. Mattke, to Bell Telephone Laboratories, Inc. Photosensitive transducer with parallel readout. 3,027,528, 3–27–62, Cl. 338—17.

Harmon, Paul V., and L. P. Carpenter, to Precision Parts Corp. Electrically heated boiler. 3,031,559, 4–24–62, Cl. 219—20.

Harmon, Ralph N., and J. R. Boykin, to Westinghouse Electric Corp. Method and apparatus for exploding bombs. 3,063,345, 11–13–62, Cl. 89—1.5.

Harmon, Raymond G., to Union Carbide Corp. Vapor fraction analysis. 3,068,686, 12–18–62, Cl. 73—23.

Harmon, Robert W., to The Ohio Brass Co. Corona ball. 3,046,327, 7–24–62, Cl. 174—73.

Harmon, Samuel J. Vacuum controlled gas saver. 3,034,-492, 5–15–62, Cl. 123—124.

Harmon, Wallace J., ½ to T. H. Inshaw. Kite. 3,055,622, 9–25–62, Cl. 244—153.

Harms, August F., to Koninklijke Pharmaceutische Fabrieken V/H Brocades-Stheeman & Pharmacia, N.V. Substituted benzhydryl amino ethers and salts. 3,038,931, 6–12–62, Cl. 260—501.

Harms, August F., to Koninklijke Pharmaceutische Fabrieken v/h Brocades-Stheeman & Pharmacia, N.V. Method of producing pharmaceutically active tiopinylethers. 3,040,049, 6–19–62, Cl. 260—292.

Harms, John D., to American Air Filter Co., Inc. Filter medium. 3,022,861, 2–27–62, Cl. 183—71.

Harms, Robert L., to Diamond National Corp. Dispenser carton. 3,059,826, 10–23–62, Cl. 229—17.

Harms, Victor, and J. H. Schwartz. Translators for multichannel codes employing matrices. 3,047,840, 7–31–62, Cl. 340—166.

Harms, William J., and A. E. Leininger, to Ford Motor Co. Vehicle body with retractable rigid top. 3,059,962, 10–23–62, Cl. 296—117.

Harmsen, Ernst: *See*—
Ebert, Hans, Ritter, Harmsen, and Grapentin. 3,067,-696.

Harmsen, John L. Reinforced concrete railway tie. 3,039,-695, 6–19–62, Cl. 238—117.

Harnack, Werner W. R.: *See*—
Schubert, Bernhard, and Harnack. 3,024,585.

Harnack, Werner W. R., to Hauni-Werke Korber & Co. K.G. Devices for feeding rod-like articles. 3,039,588, 6–19–62, Cl. 198—26.

Harned, John L., and E. J. Marchewitz, to General Motors Corp. Vehicle guidance system. 3,033,305, 5–8–62, Cl. 180—79.1.

Harner, George S. Thief detecting device. 3,053,416, 9–11–62, Cl. 222—39.

Harnett, William T.: *See*—
Rumrill, Howard J., Howe, Harnett, and Browe. 3,038,-686.

Harnik, Marcel, to Chemetron Corp. 16-substituted equilenin derivatives. 3,051,732, 8–28–62, Cl. 260—397.4.

Harnisch, Helmut: *See*—
Pieplow, Hans W., Haas, and Harnisch. 3,035,786.

Harnisch, Joachim, and H. Hermann. Record changing mechanism. 3,021,144, 2–13–62, Cl. 274—10.

Harnischfeger Corp.: *See*—
Perkins, William J. 3,029,955.
Wendelburg, Frank W., Evans, and Durst. 3,039,036.

Harnish, James R.: *See*—
Divine, William H., and Harnish. 3,028,735.

Harnish, James R., to Borg-Warner Corp. Air conditioning systems. 3,036,441, 5–29–62, Cl. 62—159.

Harnish, James R., to Borg-Warner Corp. Heat pump systems. 3,041,849, 7–3–62, Cl. 62—215.

Harnist, Lucien. Hemorrhoidal composition. 3,019,163, 1–30–62, Cl. 167—63.

Harnist, Lucien. Agent for the treatment of temporary hoarseness. 3,020,203, 2–6–62, Cl. 167—68.

Harnois, Nelson C., to Lockheed Aircraft Corp. Search radar systems. 3,019,429, 1–30–62, Cl. 343—11.

Harold, Vincent C., Jr.: *See*—
Cubberley, Richard H., Harold, and Zinaman. 3,020,184.

Harp, Alonzo M.: *See*—
Giesse, Robert C., Hull, and Harp. 3,069,091.

Harp, Maurice C.: *See*—
Faries, Alfred M., and Harp. 3,046,495.

Harper, Billy G., and J. R. Davis, to The Dow Chemical Co. Method of making uniform dispersions of carbon black in polyolefins. 3,067,118, 12–4–62, Cl. 204—162.

Harper, Chester H.: *See*—
Allen, Keneth M., and Harper. 3,038,589.
Allen, Kenneth M., and Harper. 3,065,777.

Harper, Clarence M., Jr., and G. F. Harrington, to Hygrade Food Products Corp. Meat treating. 3,016,004, 1–9–62, Cl. 99—255.

Harper, David H., to American Can Co. Metal coating composition comprising vinyl resin, phenolic-formaldehyde resin, epoxide resin and melamine-formaldehyde resin. 3,035,007, 5–15–62, Cl. 260—45.1.

Harper, Frederick R., to Vernon F. Taylor, Jr. Non-antigenic protein and fat composition and method of preparation. 3,046,197, 7–24–62, Cl. 167—66.

Harper, Frederick R., to Vernon F. Taylor, Jr. Blood product and method of preparation. 3,046,198, 7–24–62, Cl. 167—78.

Harper, George F.: *See*—
Kaye, Joseph, and Harper. 3,025,633.

Harper, John T., and J. M. Askins, to Aircraft Armaments, Inc. Quick disconnect waveguide coupling. 3,039,797, 6–19–62, Cl. 285—95.

Harper, Kenneth A., to Phillips Petroleum Co. Fluidized catalytic polymerization process. 3,037,063, 5–29–62, Cl. 260—683.15.

Harper, Laffie, to The Foundry Equipment Co. Press brake. 3,027,858, 4–17–62, Cl. 153—21.

Harper, Lauren M. Shoe repair machine construction. 3,069,707, 12–25–62, Cl. 12—50.5.

Harper, Leonard R.: *See*—
Fernekees, James E., and Harper. 3,028,583.

Harper, Leonard R., to International Business Machines Corp. Ring counter using a walking code and having a common pulsing line. 3,051,853, 8–28–62, Cl. 307—88.5.

Harper, Robert H., to Swift & Co. Process for destroying microscopic organisms in meat. 3,069,272, 12–18–62, Cl. 99—157.

Harper, Robert H., H. H. Trombly, and H. P. Bonheimer, to Swift & Co. Processing cooked comminuted meats. 3,033,-687, 5–8–62, Cl. 99—109.

Harper, Robert W., to North American Aviation, Inc. Alternating current line voltage regulator. 3,070,743, 12–25–62, Cl. 323—46.

Harper, Rufus H. Trailer dumping hitch. 3,053,572, 9–11–62, Cl. 298—5.

Harper, Willard J., P. A. Hauck, M. J. Moll, and D. G. Dutcher to Hanson-Van Winkle-Munning Co. Automatic conversion immersing machine. 3,022,881, 2–27–62, Cl. 198—19.

Harper, Willard J., C. E. Bagwell, and P. A. Hauck, to Hanson-Van Winkle-Munning Co. Article treating machine and load-unload mechanism therefor. 3,058,604, 10–16–62, Cl. 214—89.

Harper-Wyman Co.: *See*—
Huff, Norman M. 3,030,025.
Wiberg, Raymond F. 3,030,026.

Harpham, John A., and H. W. Turner, to Hercules Powder Co. Paper manufacture. 3,069,311, 12–18–62, Cl. 162—146.

Harpham, Lawrence M. Toy exerciser. 3,051,482, 8–28–62, Cl. 272—39.

Harpster, Norman R., to Universal-Cyclops Steel Corp. Age hardening cobalt base alloy. 3,047,382, 7–31–62, Cl. 75—171.

Harpster, Walter C., to Roberts Paving Co., Inc. Oil and/or gas fired vertical furnace and method. 3,035,823, 5–22–62, Cl. 263—29.

Harr, Jesse, deceased; L. Harr, administratrix, to National Aircraft Corp. Street sweeper brush and holder. 3,038,-189, 6–12–62, Cl. 15—181.

Harr, John A.: *See*—
Cirone, Frank P., Harr, and Lowry. 3,036,161.

Harrah, Robert E.: *See*—
Stubberfield, Reuben A. 3,058,580.

Harrah, Robert E., to Firco, Inc. Cylinder, piston and rod assembly. 3,040,712, 6–26–62, Cl. 121—38.

Harrell, George L., to The Merit Co. Casket hardware. 3,025,624, 3–20–62, Cl. 41—10.

Harrell, Harry E., Jr. Baseboard electric heater. 3,020,382, 2–6–62, Cl. 219—34.

Harrell, William C.: *See*—
Kunkle, Gerald E., and Harrell. 3,066,453.

Harren, Richard E.: *See*—
Brown, George L., Harren, Kine, and Wormser. 3,033,-811.

Harren, Richard E., and V. Runowicz, to Rohm & Haas Co. Aqueous composition containing polyvalent metal salt of an acidic copolymer as a thickener. 3,026,281, 3–20–62, Cl. 260—29.6.

Harrer, Joseph M., L. W. Fromm, Jr., and V. M. Kolba, to United States of America, Atomic Energy Commission. Direct-cycle, boiling-water nuclear reactor. 3,049,487, 8–14–62, Cl. 204—193.2.

Harrer, Paul H., and W. H. Shannon, to Allis-Chalmers Mfg. Co. Crop handling machine. 3,016,675, 1–16–62, Cl. 56—341.

Harrer, Theodore M. : *See*—
Loveland, Malcolm W., Harrer, and Blakewell. 3,058,616.
Harrer, Theodore M., M. W. Loveland, and R. F. Blakewell, to Atlas-Pacific Engineering Co., Inc. Pear seed celling mechanism. 3,055,408, 9–25–62, Cl. 146—52.
Harres, Alfred. Earth working tool and carriage of an underground cable laying machine. 3,024,851, 3–13–62, Cl. 172—699.
Harrick, Nicolas J., to North American Philips Co., Inc. Semiconductor stepping switch. 3,033,993, 5–8–62, Cl. 307—88.5.
Harries, Francis B. Hydraulic cutting implement. 3,041,725, 7–3–62, Cl. 30—180.
Harries, John H. O., and W. T. Welford, to Harries Television Research Ltd. Optical projection display devices. 3,053,144, 9–11–62, Cl. 88—24.
Harries Television Research Ltd. : *See*—
Harries, John H. O., and Welford. 3,053,144.
Harries, William G. : *See*—
Lewinstein, Marcus, and Harries. 3,054,050.
Harrill, Prince G. : *See*—
Young, Harland H., and Harrill. 3,021,321.
Harriman, Benjamin R. Coating photographic material. 3,018,178, 1–23–62, Cl. 96—94.
Harrington, Carl M., to Jeffrey Galion Mfg. Co. Current collector means. 3,032,616, 5–1–62, Cl. 191—12.2.
Harrington, James P. : *See*—
Hamilton, Edward F., Jr., and Harrington. 3,027,602.
Harrington, John V. : *See*—
Cypser, Rudolph J., Harrington, Hopkins, Housman, Jeffrey, and Ross. 3,056,110.
Harrington, John V., M. Sandor, and M. J. Kelley, to Nopco Chemical Co. Emulsifier composition. 3,024,198, 3–6–62, Cl. 252—312.
Harrington, Joseph J. Dual chamber automatic hay baler. 3,020,830, 2–13–62, Cl. 100—209.
Harrington, Joseph J., C. J. Dunning, and J. D. Mitchell, to Harrington Mfg. Co. Peanut harvesting machine. 3,053,-034, 9–11–62, Cl. 56—130.
Harrington, Kent W. : *See*—
Browning, James A., and Harrington. 3,027,447.
Browning, James A., and Harrington. 3,061,710.
Harrington Mfg. Co. : *See*—
Harrington, Joseph J., Dunning, and Mitchell. 3,053,-034.
Harrington Mfg. Co., Inc. : *See*—
Mitchell, John D. Re. 25,149.
Harrington, Richard H. : *See*—
Cutaia, Alfred, and Harrington. 3,052,468.
Mitchell, John D. 3,060,844.
Harrington, Robert C., Jr. : *See*—
Smith, James L., and Harrington. 3,034,957.
Harrington, Robert C., Jr., and J. L. Smith, to Eastman Kodak Co. Dialkyl tin bis-(poly-halogenated phenates) and halogenated synthetic resins containing same. 3,038,877, 6–12–62, Cl. 260—45.5.
Harrington, Thomas L. : *See*—
Palmquist, Philip V., McKenzie, and Harrington. 3,043,-196.
Harrington, William F. Camera. 3,069,987, 12–25–62, Cl. 95—36.
Harris, Alan J., to Span Tendons Ltd. Cables for prestressing concrete. 3,060,640, 10–30–62, Cl. 50—135.
Harris, Arch W. : *See*—
Griffiths, Ronald E., and Harris. 3,029,506.
Griffiths, Ronald E., and Harris. 3,030,706.
Harris, Ben A., to General Dynamics Corp. Toll ticketing trunk circuit. 3,068,320, 12–11–62, Cl. 179—7.
Harris, Ben A., C. W. Baxter, and N. L. Wiseman, to General Dynamics Corp. Transistorized phase discriminator. 3,015,737, 1–2–62, Cl. 307—88.5.
Harris, Bennett L. Gasoline vending apparatus. Re. 25,254, 10–9–62, Cl. 222—2.
Harris, Bernard : *See*—
Hughes, William, Evans, and Harris. 3,043,659.
Harris, Bert C., to White Motor Co. Fifth wheel construction. 3,035,855, 5–22–62, Cl. 280—439.
Harris, Donald A., to Hyster Co. Method and apparatus for handling loads. 3,040,920, 6–26–62, Cl. 214—651.
Harris, Donald A., and R. C. Shoemaker, to Hyster Co. Apparatus for handling loads. 3,054,521, 9–18–62, Cl. 214—651.
Harris, Edward J. : *See*—
Frohlich, Adolf H., and Harris. 3,051,225.
Harris, Edward J. Vulcanizing press. 3,041,667, 7–3–62, Cl. 18—17.
Harris, Edward J. Vulcanizing press. 3,052,920, 9–11–62, Cl. 18—17.
Harris, Edward P. : *See*—
Wall, James R., and Harris. 3,049,730.
Harris, Edward P., to General Motors Corp. Pneumatic containers and method and apparatus for making the same. 3,033,557, 5–8–62, Cl. 267—65.
Harris, Edward P., to General Motors Corp. Resilient sealing strips for sealing doors. 3,038,217, 6–12–62, Cl. 20—69.
Harris, Edward P., to General Motors Corp. Sealing strip. 3,059,292, 10–23–62, Cl. 20—69.
Harris, Edward P., and J. R. Wall, to General Motors Corp. Polymerization apparatus. 3,070,427, 12–25–62, Cl. 23—260.
Harris, Ellis D. Transistor exclusive-or circuit with gain. 3,017,523, 1–16–62, Cl. 307—88.5.
Harris, Ernest S. : *See*—
Challas, William G., Jr., and Harris. 3,053,558.
Harris, Ernest S., and R. F. Beck, to General Motors Corp. Dual purpose shipping rack. 3,056,526, 10–2–62, Cl. 220—97.
Harris Foundry & Machine Co. : *See*—
Thompson, Wallace M. Re. 25,268.
Thompson, Wallace M. 3,037,446.
Thompson, Wallace M. 3,044,584.
Thompson, Wallace M. 3,046,825.
Harris, Francis S., to Microwave Associates, Inc. Transmit-receive system. 3,056,127, 9–25–62, Cl. 343—5.
Harris, George C., and C. A. Weisgerber, to Hercules Powder Co. Emulsions of starch derivatives and use of same for sizing paper. 3,070,452, 12–25–62, Cl. 106—213.
Harris, George C., and R. A. Leonard, to Hercules Powder Co. Amino alkyl ethers of starch. 3,070,594, 12–25–62, Cl. 260—233.3.
Harris, George J., to Canadian Industries Ltd. Continuous manufacture of a phosphoric and sulphuric acid mixture. 3,030,200, 4–17–62, Cl. 71—37.
Harris, Gerald R., ½ to J. A. Tod and ¼ to C. Hornung. Device for placing plastic clips on bags. 3,021,654, 2–20–62, Cl. 53—138.
Harris, Gilbert W., Sr., to Water Process Corp. Ice making apparatus. 3,020,730, 2–13–62, Cl. 62—307.
Harris, Graham : *See*—
Hall, Ronald D., and Harris. 3,053,664.
Harris, Harry J. : *See*—
Lichtenfeld, Alfred F. 3,050,910.
Harris, Harry R. Retractible device for golf club head covers. 3,015,351, 1–2–62, Cl. 150—52.
Harris, Henry C. : *See*—
Cassidy, Joseph, Pals, and Harris. 3,054,656.
Harris, Herbert. Forms for clinched staples and the like. 3,056,181, 10–2–62, Cl. 24—73.
Harris, Herbert W. : *See*—
Rench, Harry D., and Harris. 3,061,165.
Harris-Hogan Co. : *See*—
Lakatta, Edward. 3,017,846.
Harris-Intertype Corp. : *See*—
Adams, Dolor N. 3,019,105.
Aranyi, Janos A., Bliomas, and Sarfaty. 3,042,189.
Bradmiller, Edwin W., and Doty. 3,037,665.
Brandt, Gotlieb H., and Wojciechowski. 3,039,388.
Downie, Robert H. 3,049,995.
Downie, Robert H. 3,049,996.
Gulick, Kenneth H. 3,047,283.
Heigl, Carl H., and Zugel. 3,030,624.
Heigl, Carl H., and Zugel. 3,032,336.
Hooven, Frederick J., and O'Brien. Re. 25,128.
Lindemann, Robert E. 3,030,884.
Lindemann, Robert E. 3,064,564.
Midgette, Ernest L. 3,042,188.
Midgette, Ernst L., Sarfaty, and Bittner. 3,063,548.
Norton, Robert K. 3,044,771.
O'Brien, Richard C. 3,017,811.
O'Brien, Richard C. 3,059,219.
Penner, Arthur H. 3,017,830.
Reif, Peter M., and Semenhuk. 3,035,835.
Sausele, George J. H. 3,017,015.
Sausele, George J. H. 3,043,421.
Seel, Howard J. 3,018,099.
Staines, Alfred J. 3,039,767.
Weidman, William H. 3,022,068.
Weidman, William H. 3,053,532.
Wojciechowski, Walter J., and Weigl. 3,038,405.
Yingling, Victor N., and Seel. Re. 25,283.
Harris, James E., and W. R. Carson, to General Motors Corp. Method of control. 3,050,577, 8–21–62, Cl. 136—27.
Harris, James J., to Koppers Co., Inc. Boraarothiazole borazines. 3,016,402, 1–9–62, Cl. 250—551.
Harris, James J., to Koppers Co., Inc. B,B',B''-tris(pyridinium halide)- and B,B',B''-tris(quinolinium halide)-borazines and a process for their preparation. 3,052,686, 9–4–62, Cl. 260—296.
Harris, James O. 6-dihydroquinolinyl polyethers and aminoethers. 3,049,510, 8–14–62, Cl. 260—45.8.
Harris, James S. : *See*—
Mitchell, Thompson, Harris, and Zekaria. 3,017,461.
Harris, Jay C., to Monsanto Chemical Co. Detergent compositions. 3,037,937, 6–5–62, Cl. 252—152.
Harris, John F., Jr., to E. I. du Pont de Nemours and Co. N-(fluoroalkylthio)-imides. 3,036,088, 5–22–62, Cl. 260—326.
Harris, John F., Jr., to E. I. du Pont de Nemours and Co. Polymeric -perfluoro-2-butyne. 3,037,010, 5–29–62, Cl. 260—42.1.
Harris, John F., Jr., to E. I. du Pont de Nemours and Co. Polymers of polyfluorothioaldehydes. 3,047,545, 7–31–62, Cl. 260—79.
Harris, John F., Jr., to E. I. du Pont de Nemours and Co. Vinyl perfluoroalkylsulfides and polymers. 3,048,569, 8–7–62, Cl. 260—79.7.
Harris, John F., Jr., to E. I. du Pont de Nemours and Co. Poly (perfluoroalkylthio)organic compounds. 3,062,894, 11–6–62, Cl. 260—609.
Harris, John F., Jr., and R. M. Joyce, Jr., to E. I. du Pont de Nemours and Co. Fluoroalkylthioacetylenes. 3,062,893, 11–6–62, Cl. 260—609.

Harris, Lawrence, to United Aircraft Corp. Logarithmic output intermediate frequency amplifier. 3,032,716, 5–1–62, Cl. 328—145.

Harris, Lee M.: *See*—
Soper, La Vern G., and Harris. 3,022,411.

Harris, Lee T. Variable displacement hydraulic assembly. 3,044,409, 7–17–62, Cl. 103—120.

Harris, Le Roy S., to Schutte and Koerting Co. Desuperheater. 3,034,771, 5–15–62, Cl. 261—36.

Harris, Lionel R. F., and F. N. Martin, to Her Majesty's Postmaster General. Alternating current receivers. 3,046,345, 7–24–62, Cl. 179—15.

Harris, Luther G., to United States of America, Navy. Three dimensional isometric display system. 3,044,058, 7–10–62, Cl. 343—7.9.

Harris, Mechell F. Hair drying apparatus. 3,052,038, 9–4–62, Cl. 34—80.

Harris, Milton, and L. R. Mizell, to Western Felt Works. Method of making felt. 3,060,548, 10–30–62, Cl. 28—72.3.

Harris, Ples L. Pecan sheller. 3,065,778, 11-27-62, Cl. 146—16.

Harris, Ralph E.: *See*—
Peters, Lowell E., and Harris. 3,055,062.

Harris, Raymond C., and G. C. Newland, to Eastman Kodak Co. Cellulose organic ester compositions stabilized with 6,13 - dichloro-3,10 - diphenyl-triphenodioxazine. 3,031,321, 4–24–62, Cl. 106—176.

Harris, Richard A., to Western Electric Co., Inc. Switching system. 3,056,050, 9–25–62, Cl. 307—115.

Harris, Richard W.: *See*—
Chalmers, John W., and Harris. 3,057,126.

Harris, Robert E., to H. H. Robertson Co. Resistance welding machine. 3,026,404, 3–20–62, Cl. 219—81.

Harris, Samuel. Dental flasks. 3,058,155, 10–16–62, Cl. 18—33.

Harris, Samuel W.: *See*—
Altwicker, Elma R., Garrett, Wellmuenster, and Harris. 3,052,725.

Harris, Sidney E., and W. G. Rausch, to Hoffmann-La Roche Inc. Package filling apparatus. 3,018,595, 1–30–62, Cl. 53—78.

Harris, Thomas I.: *See*—
Brewer, Silas H., Harris, and Sandback. 3,029,699.

Harris, Thomas I., and I. C. Sandback, to Bell & Howell Co. Optical system. 3,059,532, 10–23–62, Cl. 88—57.

Harris, Tommy G.: *See*—
Cluck, Howard O., and Harris. 3,018,474.

Harris Transducer Corp., The: *See*—
Farr, Harold K. 3,027,511.
Harris, Wilbur T. 3,018,465.
Harris, Wilbur T. 3,018,466.
Harris, Wilbur T. 3,018,467.
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Harris, Wilbur T. 3,027,541.
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Harris, Wilbur T. 3,066,525.
Harris, Wilbur T. 3,067,345.

Harris, Walter. Diaper rinser. 3,068,681, 12–18–62, Cl. 68—213.

Harris, Wayne W., to International Business Machines Corp. Multi-channel tape detector. 3,018,951, 1–30–62, Cl. 235—61.11.

Harris, Wilbur T., to The Harris Transducer Corp. Compliant acoustic radiating means. 3,018,465, 1–23–62, Cl. 340—8.

Harris, Wilbur T., to The Harris Transducer Corp. Compensated hydrophone. 3,018,466, 1–23–62, Cl. 340—8.

Harris, Wilbur T., to The Harris Transducer Corp. Resonant reactively operating variable position transducer. 3,018,467, 1–23–62, Cl. 340—12.

Harris, Wilbur T., to The Harris Transducer Corp. Electromagnetic transducer. 3,022,487, 2–20–62, Cl. 340—12.

Harris, Wilbur T., to The Harris Transducer Corp. Structure for use in an electrodynamic transducer. 3,027,541, 3–27–62, Cl. 340—12.

Harris, Wilbur T. Hollow conical electromechanical transducer. 3,030,606, 4–17–62, Cl. 340—8.

Harris, Wilbur T., to The Harris Transducer Corp. Oscillator. 3,056,590, 10–2–62, Cl. 259—1.

Harris, Wilbur T., to The Harris Transducer Corp. Pole testing apparatus. 3,066,525, 12–4–62, Cl. 73—67.8.

Harris, Wilbur T., to The Harris Transducer Corp. Rod-mounted plural crystal assembly. 3,067,345, 12–4–62, Cl. 310—8.6.

Harris, William H., to Scovill Mfg. Co. Lipstick container. 3,021,946, 2–20–62, Cl. 206—56.

Harris, William H., Jr., to Micromatic Home Corp. Bore gauging device. 3,065,577, 11–27–62, Cl. 51—34.

Harrison, Charles E. Ice-damage preventer for swimming pools. 3,050,750, 8–28–62, Cl. 9—8.

Harrison, Charles H., to Woodson Marine Ltd. Marine propulsion unit. 3,070,060, 12–25–62, Cl. 115—18.

Harrison, Don E., to General Electric Co. Phosphor suspension. 3,017,365, 1–16–62, Cl. 252—301.3.

Harrison, Donald A., and J. J. Selfridge, to International Business Machines Corp. Error detecting system for a digital computer. 3,036,770, 5–29–62, Cl. 235—153.

Harrison, George C.: *See*—
Rothweiler, George A., Harrison, and Casement. 3,056,704.

Harrison, Henry: *See*—
Harrison, Henry C. 3,024,547.
Harrison, Henry C. 3,058,135.

Harrison, Henry. Platform ladder. 3,031,028, 4–24–62, Cl. 182—122.

Harrison, Henry. Folding step stool. 3,057,432, 10–9–62, Cl. 182—156.

Harrison, Henry and H. C. Screw clamp. 3,055,654, 9–25–62, Cl. 269—241.

Harrison, Henry and H. C. Pneumatic door check. 3,058,146, 10–16–62, Cl. 16—66.

Harrison, Henry C.: *See*—
Harrison, Henry and H. C. 3,055,654.
Harrison, Henry and H. C. 3,058,146.

Harrison, Henry C., ½ to H. Harrison. Combined snow plow and cart. 3,024,547, 3–13–62, Cl. 37—130.

Harrison, Henry C., ½ to H. Harrison. Sweeper and dustpan assembly. 3,058,135, 10–16–62, Cl. 15—41.

Harrison, Henry M., to Electric & Musical Industries Ltd. Magnetic transducing heads. 3,060,279, 10–23–62, Cl. 179—100.2.

Harrison, Hugh T., to The Dow Chemical Co. Inhibited aqueous acidic composition. 3,062,748, 11–6–62, Cl. 252—147.

Harrison, James, to The Globe and Mail Ltd. Apparatus and method for positioning an overwrap sheet above material to be wrapped. 3,026,659, 3–27–62, Cl. 53—74.

Harrison, James B., and O. L. Mageli, to Wallace & Tiernan Inc. Compositions of chlorosubstituted benzoyl peroxide. 3,029,206, 4–10–62, Cl. 252—426.

Harrison, James M., to Crown Machine & Tool Co. Method of making dispensable cups. 3,045,286, 7–24–62, Cl. 18—48.

Harrison, John E. R.: *See*—
Bettin, Roger R., Hahnel, Harrison, and Schwittek. 3,054,057.

Harrison, John E. R., to General Dynamics Corp. Crystal filters for multifrequency source. 3,054,968, 9–18–62, Cl. 331—76.

Harrison, John E. R., to General Dynamics Corp. Crystal filters for multifrequency source. 3,054,969, 9–18–62, Cl. 331—76.

Harrison, John E. R., to General Dynamics Corp. Stable transistor frequency changer having a stable multivibrator with synchronizing pulse input. 3,061,742, 10–30–62, Cl. 307—88.5.

Harrison, John E. R., G. V. Lennon III, and J. Van Sandwyk, to General Dynamics Corp. Automatic gain control generator for receivers. 3,060,329, 10–23–62, Cl. 307—88.5.

Harrison, John R.: *See*—
Carter, Giles F., and Harrison. 3,017,299.

Harrison, John R., to Hercules Powder Co. Laundry starch and process. 3,049,434, 8–14–62, Cl. 106—194.

Harrison, John W.: *See*—
Avtges, James A., Harrison, and Shaver. 3,047,370.
Baird, William G., Jr., and Harrison. 3,045,285.
Dreyfus, Robert L., and Harrison. 3,050,402.
Dreyfus, Robert L., Harrison, and Lowry. 3,022,614.

Harrison, John W., to W. R. Grace & Co. Closure for vacuum packages. 3,041,801, 7–3–62, Cl. 53—37.

Harrison, John W., to W. R. Grace & Co. Multiple can carrier and sanitary seal. 3,046,711, 7–31–62, Cl. 53—30.

Harrison, John W., T. E. Ford, R. L. Dreyfus, and M. A. Howe, Jr., to W. R. Grace & Co. Film dispensers. 3,039,664, 6–19–62, Cl. 225—18.

Harrison, Leslie N. Inspection of crustaceans. 3,067,328, 12–4–62, Cl. 250—71.

Harrison, Myron L., to The Bendix Corp. High pumping efficiency master cylinder. 3,044,268, 7–17–62, Cl. 60—54.6.

Harrison, Peter F.: *See*—
Gaspar, Emeric, Munns, and Harrison. 3,068,521.

Harrison, Richard L., to Sylvania Electric Products Inc. Travelling wave tube. 3,038,100, 6–5–62, Cl. 315—3.6.

Harrison, Richard, III, H. V. Shriver, and A. J. Holland, Jr. Portable shelter. 3,016,115, 1–9–62, Cl. 189—2.

Harrison, Stuart A.: *See*—
Berglund, Lawrence W., Capener, and Harrison. 3,041,298.

Harrison, Thomas L., and R. H. Pratt, to Pratt Mfg. Corp. Apparatus for closing the edges of packages. 3,054,242, 9–18–62, Cl. 53—378.

Harrison, Walter H. Ventilated frame for lenses. 3,015,987, 1–9–62, Cl. 88—41.

Harrison, William, Jr. Tube holder and paste dispenser. 3,065,881, 11–27–62, Cl. 222—100.

Harrison, William B., Jr.: *See*—
Rexrode, Hampton M., and Harrison. 3,041,517.

Harrisson, Joseph W. E.: *See*—
Scanlan, James J., and Harrisson. 3,044,939.

Harrold, Marshall C.: *See*—
Alexander, Donald F., and Harrold. 3,017,030.

Harrop, Leon L. Microscopic slide rimmer. 3,023,730, 3–6–62, Cl. 118—410.

Harrop, Leslie D., to The Upjohn Co. Feeding ruminants 9α-fluoro-16α-methylprednisolone. 3,036,917, 5–29–62, Cl. 99—2.

Harrover, Robert E., Jr., to Westinghouse Electric Corp. Addition agent for acid copper electrolytes. 3,054,734, 9–18–62, Cl. 204—52.

Harruff, Ray W., and W. S. Touchman, to A. Kimball Co. Portable record sensing apparatus. 3,018,947, 1–30–62, Cl. 234—30.

Harry, Frank. Safe and vault alarm devices. 3,056,125, 9–25–62, Cl. 340—274.
Harry, Robert J., to The Alliance Machine Co. Cranes. 3,021,169, 2–13–62, Cl. 294—115.
Harry, Robert J., to The Alliance Machine Co. Lock rod mechanism. 3,044,639, 7–17–62, Cl. 214—31.
Harry, William R., to Bell Telephone Laboratories, Inc. Signal translating systems. 3,066,633, 12–4–62, Cl. 114—23.
Harshaw Chemical Co., The: *See*—
Carlson, Roland W. 3,030,509.
Carlson, Roland W. 3,053,982.
Carlson, Roland W. 3,068,359.
Dudnikov, Mitchell. 3,028,392.
Halbedel, Harold S., and Field. 3,018,162.
Moy, Paul W. 3,030,281.
Platt, Richard D. 3,052,796.
Seabright, Clarence A. 3,025,178.
Towle, Jack L. 3,032,594.
Unkefer, Gilbert G., Barrick, and Meek. 3,046,153.
Hart, Arthur L., to American Can Co. Container for a dispensable product having a pressure relief valve. 3,063,-603, 11–13–62, Cl. 222—482.
Hart, Benjamin F., and R. P. Carlson, to General Electric Co. Method and apparatus for helically winding strip material. 3,062,267, 11–6–62, Cl. 153—64.5.
Hart, Charles H., to General Metals Corp., Adel Precision Products Division. Pump construction. 3,063,378, 11–13–62, Cl. 103—126.
Hart & Cooley Mfg. Co.: *See*—
Waalkes, Robert J., and Kuhtic. 3,065,002.
Hart, David, to United States of America, Army. First fire and igniter composition. 3,030,243, 4–17–62, Cl. 149—42.
Hart, Donald J.: *See*—
Cromley, William H., and Hart. 3,063,630.
Hart, Edward C., to Scaife Co. Rotary compressors. 3,016,-184, 1–9–62, Cl. 230—152.
Hart, Edward H., C. L. Tribby, and H. J. Morris, to Hartford Laboratories. Emblaming fluid containing blood pigment and method of making. 3,061,509, 10–30–62, Cl. 167—49.5.
Hart, Edwin C. Print drier. 3,069,002, 12–18–62, Cl. 206—1.
Hart, Everett E. Cutting apparatus having a reciprocating tool carriage and stopping means. 3,056,325, 10–2–62, Cl. 83—487.
Hart, Frank J., to Jay Kay Metal Specialties Corp. Automatic electrically operated can opener. 3,031,751, 5–1–62, Cl. 30—4.
Hart, George H., to The Hart Mfg. Co. Assembly device for bus bars. 3,032,865, 5–8–62, Cl. 29—203.
Hart, George H., to The Hart Mfg. Co. Thermostat switch. 3,069,523, 12–18–62, Cl. 219—20.
Hart, Gerald E. Signal display system. 3,048,837, 8–7–62, Cl. 343—16.
Hart, Harry H., to John Inglis Co, Ltd. Device for draping fourdrinier wire. 3,022,820, 2–27–62, Cl. 162—273.
Hart, Harry H., to John Inglis Co. Ltd. Wire changing fourdrinier machine. 3,025,909, 3–20–62, Cl. 162—273.
Hart, Hendrik: *See*—
Kuilman, Cornelis. 3,057,385.
Hart, James L., to Phillips Petroleum Co. Uranium recovery process. 3,022,135, 2–20–62, Cl. 23—14.5.
Hart, John A.: *See*—
Skramstad, Harold K., Raudenbush, and Hart. 3,050,690.
Hart, John F., to Sinclair Oil & Gas Co. Automatic hang-off for reciprocating rod. 3,024,667, 3–13–62, Cl. 74—593.
Hart, John G., and E. R. Ziegler, to General Motors Corp. Pump assembly. 3,056,911, 10–2–62, Cl. 318—272.
Hart, John J., and M. Sajben, to Westinghouse Electric Corp. Moisture removing apparatus for steam turbine or the like. 3,058,720, 10–16–62, Cl. 253—76.
Hart, John M. Radio-telephone communication system having means for automatic direct dispatch between mobile stations. 3,065,421, 11–20–62, Cl. 325—55.
Hart Mfg. Co., The: *See*—
Hart, George H. 3,032,865.
Hart, George H. 3,069,523.
Hart, Robert A.: *See*—
Aves, William L., Jr., and Hart. 3,031,331.
Hart, Robert H.: *See*—
Allen, Robert L., and Hart. 3,032,151.
Moore, Lawrence A., and Hart. 3,060,843.
Hart, Robert H., L. F. Platt, D. W. Thomas, and J. E. Rhinehart, to United States of America, Navy. Method for making flexible tubular members. 3,059,319, 10–23–62, Cl. 29—155.
Hart, Robert K., to Abbott-Lane Industries, Inc. Package. 3,064,800, 11–20–62, Cl. 206—42.
Hart, Robert T., to Collins Radio Co. Data transmission system for telemetering. 3,032,751, 5–1–62, Cl. 340—198.
Hart, Robert W. Dynamic pressure sensitive detector. 3,045,-491, 7–24–62. Cl. 73—398.
Hart, Sylvan L. Elapsed time indicator and controller. 3,029,384, 4–10–62, Cl. 324—68.
Hart, Thomas F. Gas burner lint screen. 3,051,230, 8–28–62, Cl. 158—118.
Hart, W. C. & Z. N., Instrumenten en Apparatenfabriek N.V.: *See*—
Muires, Wilhelm H. 3,028,745.
Hart, William D., to The Regina Corp. Combined suction operated floor washer and wax applier. 3,018,504, 1–30–62, Cl. 15—320.
Harte, Walter H.: *See*—
Markakis, Pericles, Freeman, and Harte. 3,027,258.
Hartel, Erwin H., to Cleveland Pneumatic Industries, Inc. Aircraft landing gear. 3,017,143, 1–16–62, Cl. 244—102.
Hartel, Erwin H., to Cleveland Pneumatic Industries, Inc. Shock absorber. 3,017,172, 1–16–62, Cl. 267—64.
Hartel, Erwin H., to Cleveland Pneumatic Industries, Inc. Retractable landing gear. 3,038,687, 6–12–62, Cl. 244—102.
Hartel, Erwin H., to Cleveland Pneumatic Industries, Inc. Aircraft landing gear for use on catapult aircraft. 3,062,-485, 11–6–62, Cl. 244—63.
Hartel, Pieter H., to Bull Nederland, Administratie-en Statistiekmachine Mij, N.V. Device for conveying and stacking documents bearing registrations. 3,046,009, 7–24–62, Cl. 271—71.
Hartenstein, Raymond G.: *See*—
Kerley, James J., Jr., Hartenstein, and Crecce. 3,037,728.
Harter, Clair M. Fishing rod joint. 3,048,432, 8–7–62, Cl. 287—126.
Harter, Donald G., W. J. Haley, A. P. Boehmer, and B. M. Jaremus, to Borg-Warner Corp. Compressor capacity controllers. 3,047,217, 7–31–62, Cl. 62—193.
Harter, Earl F., to Carrier Corp. Method and apparatus for the generation of electric power. 3,043,115, 7–10–62, Cl. 62—236.
Harter, James R. R. Submarine vehicle. 3,020,722, 2–13–62, Cl. 61—46.
Harter, Paul: *See*—
Staudt, Erwin, and Harter. 3,033,089.
Harter, Robert R.: *See*—
Faust, Ellwood L., and Harter. 3,065,800.
Harter, Walter E., to Harter's Hobby Products, Inc. Model airplane variable-size pan. 3,022,606, 2–27–62, Cl. 46—76.
Harter's Hobby Products, Inc.: *See*—
Harter, Walter E. 3,022,606.
Hartford, Charles H.: *See*—
Makowski, Alexander G., and Hartford. 3,014,894.
Hartford National Bank and Trust Co.: *See*—
Liebe, August A. 3,015,153.
Hartford Special Machinery Co., The: *See*—
Morin, John O., McDonough, and Grossimon. 3,020,460.
Hartgenbush, John A. Alignment jig for butt welding. 3,045,621, 7–24–62, Cl. 113—102.
Hartgerink, Harold G. Extract of bixa orellana plant for use as a pharmaceutical. 3,066,074, 11–27–62, Cl. 167—65.
Hartin, David C.: *See*—
Grahl, Melvin F., and Hartin. 3,056,089.
Hartin, William J., to The Bendix Corp. Reactor control. 3,038,847, 6–12–62, Cl. 204—193.3.
Harting, Glen R., to Borg-Warner Corp. Electromagnetic friction device. 3,054,490, 9–18–62, Cl. 192—84.
Hartke, David H.: *See*—
Alrich, John C., and Hartke. 3,022,006.
Brown, Joseph R., Jr., and Hartke. 3,070,800.
Hartke, Klaus: *See*—
Bohme, Horst, and Hartke. 3,046,274.
Hartlapp, Gerhard: *See*—
Rodis, Franz, Hartlapp, and Beltz. 3,023,083.
Hartle, Robert J.: *See*—
Halter, Robert E., and Hartle. 3,042,697.
Hartle, Robert J., to Gulf Research & Development Co. Fuel for spark ignition engines. 3,055,748, 9–25–62, Cl. 44—69.
Hartle, Robert J., to Gulf Research & Development Co. Alkyl acid phosphates. 3,055,925, 9–25–62, Cl. 260—437.
Hartle, Robert J., to Gulf Research & Development Co. Molybdenum and tungsten halides and sulfides of organic substituted dithiophosphoric acids. 3,068,259, 12–11–62, Cl. 260—429.
Hartle, Robert J., and H. I. Thayer, to Gulf Research & Development Co. Carbamate-pyrethrin insecticides. 3,035,-969, 5–22–62, Cl. 167—24.
Hartler, Nils J. C., to Stiftelsen Svensk Cellulosaforskning. Methods of improving the yield in alkaline digestion of cellulosic material. 3,042,575, 7–3–62, Cl. 162—80.
Hartley Controls Corp.: *See*—
Nelson, Hartley. Re. 25,282.
Hartley, Edward L.: *See*—
Deacon, William, Golesworthy, Hartley, and Martin. 3,020,718.
Hartley, Emmett C., to Parker-Hannifin Corp. Tube flaring tool. 3,040,801, 6–26–62, Cl. 153—79.
Hartley, Ezra D., to The Flo-Motive Corp. Dual cavity fluid handling device. 3,040,664, 6–26–62, Cl. 103—4.
Hartley, J. R.: *See*—
Courtney, Joseph F. 3,052,024.
Hartley, Richard S., to The Hobart Mfg. Co. Food handling apparatus. 3,051,207, 8–28–62, Cl. 146—102.
Hartley, Richard S., and H. D. Hannah, to The Hobart Mfg. Co. Food processing machinery. 3,054,431, 9–18–62, Cl. 146—78.
Hartley, Robert A., A. K. Pester, and J. F. Hayes, to International Paints (Canada) Ltd. Coating composition. 3,069,279, 12–18–62, Cl. 106—128.
Hartley, Robert R., to Westinghouse Air Brake Co. Computer test and change-over circuit. 3,054,560, 9–18–62, Cl. 235—151.
Hartley, Wilfred, R. S. Craig, and R. H. Sapiro, to Humphreys & Glasgow Ltd. Method of removing hydrogen sulphide from gases. 3,068,065, 12–11–62, Cl. 23—2.

Hartman, Albert E. Cleaning implement. 3,061,861, 11–6–62, Cl. 15—209.

Hartman, David J.: *See*—
Wintrode, Warner C., and Hartman. 3,028,526.

Hartman, Eugene H., to United States Rubber Co. Process of vulcanizing rubber including a delayed addition of ultra-accelerator. 3,023,460, 3–6–62, Cl. 18—55.

Hartman, Frank B.: *See*—
Demmer, William R., Foin, and Hartman. 3,058,659.
Evans, Oliver D., and Hartman. 3,027,031.
Foin, Warren C., Gregory, Hartman, and Trachy. 3,026,037.

Hartman, George L., and H. E. Bradford, to Superior Coach Corp. Escape ladder. 3,042,141, 7–3–62, Cl. 182—95.

Hartman, Harry J., and W. E. Pocock, to Allied Research Products, Inc. Protective coating. 3,053,691, 9–11–62, Cl. 117—75.

Hartman, Irvin C.: *See*—
Daugherty, Harry V. 3,070,136.

Hartman, John A.: *See*—
Passal, Frank, and Hartman. 3,041,255.

Hartman, Joseph H. Valve shank protector. 3,067,630, 12–11–62, Cl. 74—608.

Hartman, Lyle M. Foldable leg construction. 3,061,391, 10–30–62, Cl. 311—99.

Hartman, Maurice D., Jr., and G. C. Sparks, to Sparks Corp. Push-out-blister package. 3,054,503, 9–18–62, Cl. 206—42.

Hartman, Paul F., to United States Rubber Co. N,N'-bis-(trinitroalkyl)-ureas. 3,028,425, 4–3–62, Cl. 260—553.

Hartman, Paul F., to United States Rubber Co. Process for production of 2,2,2-tri-nitroethanol. 3,041,383, 6–26–62, Cl. 260—638.

Hartman Trailer Mfg. Co., Inc.: *See*—
Pierce, Samuel. 3,053,224.

Hartmann, Adolf: *See*—
Bier, Gerhard, Gumbolt, Hartmann, and Happe. 3,036,-052.

Hartmann Aktiengesellschaft, Maschinenfabrik: *See*—
Ibing, Rolf, Luft, and Nagel. 3,024,908.

Hartmann & Braun Aktiengesellschaft: *See*—
Block, Stefan, and Schlenz. 3,026,713.
Ebbinghaus, Edgar. 3,045,474.
Engelhardt, Heinz, Block, and Schlenz. 3,055,207.
Moyat, Peter. 3,045,663.
Schlenz, Hans. 3,032,402.

Hartmann, Brodrene, Aktieselskabet: *See*—
Hartmann, Louis M., and Hansen. 3,064,727.

Hartmann, Kurt, H. Husing, G. Seidel, W. Deppe, and J. Gredigk, to Krauss-Maffei Aktiengesellschaft. Batch type kneading and mixing machine for rubber and plastic materials. 3,057,008, 10–9–62, Cl. 18—2.

Hartmann, Leonhard T., to Allied Chemical Corp. Purification of crude coke oven light oil. 3,027,318, 3–27–62, Cl. 208—224.

Hartmann, Louis M., and A. B. A. Hansen, to Brodrene Hartmann Aktieselskabet. Machine for making pulp blanks. 3,064,727, 11–20–62, Cl. 162—382.

Hartmann, Otto, to Daimler-Benz Aktiengesellschaft. Diesel engine. 3,020,898, 2–13–62, Cl. 123—32.

Hartman, Otto O., to Beatrice Foods Co. Process for preparing pickles. 3,070,444, 12–25–62, Cl. 99—102.

Hartmann, Robert F., to Olin Mathieson Chemical Corp. Treatment of brass. 3,046,166, 7–24–62, Cl. 148—11.5.

Hartmeister, Joel T. Range finding device. 3,044,344, 7–17–62, Cl. 88—24.4.

Hartnett, John J., to The Animation Equipment Corp. Optical printer drive and control mechanism. 3,044,350, 7–17–62, Cl. 88—24.

Hartnett, R. W., Co.: *See*—
Ackley, Charles E. 3,042,183.

Hartnett, Stephen E., and R. H. Twyford, to Mechanical Enterprises, Inc. Character adding device for typewriting equipment. 3,063,541, 11–13–62, Cl. 197—180.

Hartog, Huibert W.: *See*—
Groom, Reginald W., and Hartog. 3,025,190.

Hartop, Lynn M., and W. R. Henderson, to General Electric Co. Busway switch. 3,053,945, 9–11–62, Cl. 200—16.

Hartridge, Leslie Ltd.: *See*—
Taylor, Cecil I. 3,068,876.

Hartrimor Laboratories: *See*—
Hart, Edward H., Tribby, and Morris. 3,061,509.

Hartshorn, Cyril. Apparatus for measuring and classifying women's stockings. 3,022,892, 2–27–62, Cl. 209—122.

Hartshorn, Derick S. Lead screw means with half-nut engageable when in alignment with lead screw threads. 3,026,549, 3–27–62, Cl. 10—105.

Hartshorne, Edward, to Olin Mathieson Chemical Corp. Meat wrapper containing antibiotic. 3,041,184, 6–26–62, Cl. 99—174.

Hartsock, James G.: *See*—
Hartsock, Robert E. and J. G. 3,025,361.

Hartsock, Robert E. and J. G.; said J. G. Hartsock assor. to said R. E. Hartsock. Selector switches. 3,025,361, 3–13–62, Cl. 200—11.

Hartung, Homer A., and R. C. Borchert, to Union Carbide Corp. Organosiloxanes. 3,037,962, 6–5–62, Cl. 260—46.5.

Hartup, William O., deceased; W. A. Conner, executor of said W. O. Hartup. Sheet-metal trimming machine. 3,026,754, 3–27–62, Cl. 83—188.

Hartupee, Perry B., to Thornton Axle Inc. Locking differential with pressure relief device. 3,051,020, 8–28–62, Cl. 74—710.5.

Hartvig, Arthur: *See*—
Garvey, Mark J., and Hartvig. 3,068,986.

Hartwell Corp., The: *See*—
Davis, Clifford A. 3,039,572.
Poe, Lloyd R. 3,039,837.
Poe, Lloyd R. 3,051,520.

Hartwell, Ralf L., to Technical Wire Products, Inc. Electrical shielding and sealing gasket. 3,019,281, 1–30–62, Cl. 174—35.

Hartwell, Ralf L., to Technical Wire Products Inc. Shielding and mounting strip. 3,026,367, 3–20–62, Cl. 174—35.

Hartwell, Sidney J., to Allis-Chalmers Mfg. Co. Maximum and minimum indicator. 3,041,997, 7–3–62, Cl. 116—129.

Hartwig, Arthur: *See*—
Baker, William R., and Hartwig. 3,056,071.

Hartwig, Deward. Cot constructions. 3,044,080, 7–17–62, Cl. 5—111.

Hartwig, Edward C., D. B. Cummings, and R. F. Post, to United States of America, Atomic Energy Commission. Pyrotron with translational closure fields. 3,015,748, 1–2–62, Cl. 315—161.

Hartwig, Frederick J., to The Babcock & Wilcox Co. Method of forming a mineral wool pad. 3,023,141, 2–27–62, Cl. 162—152.

Hartwig, Frederick J., and F. H. Norton, to The Babcock & Wilcox Co. Apparatus for forming a ceramic filament. 3,066,504, 12–4–62, Cl. 65—1.

Hartwig, Fritz, and E. Dahlke, to Licentia Patent-Verwaltungs-G.m.b.H. Dry shaver apparatus having different power units. 3,043,996, 7–10–62, Cl. 318—17.

Hartwimmer, Robert: *See*—
Wiberg, Egon, and Hartwimmer. 3,067,003.
Wiberg, Egon, Hartwimmer, and Gumboldt. 3,048,574.

Hartz, Frank M.: *See*—
Mulavey, James E., and Hartz. 3,027,513.

Hartz, Helmut. Elastic coupling. 3,039,281, 6–19–62, Cl. 64—27.

Hartz Mountain Products Corp.: *See*—
Stern, Leonard. 3,017,859.

Hartz, Walter A.: *See*—
Coolidge, James C., and Hartz. 3,064,702.

Hartzell, Carol: *See*—
Volkmann, Willy B., and Hartzell. 3,018,799.

Hartzell, Earl F.: *See*—
Volkmann, Willy B., and Hartzell. 3,018,799.

Hartzell, Herman L., and K. W. Young, to General Motors Corp. Vehicle heating system. 3,051,393, 8–28–62, Cl. 237—2.

Hartzell Propeller, Inc.: *See*—
Biermann, David. 3,027,949.
Biermann, David. 3,057,410.

Haruta, Kazuo: *See*—
Hiraa, Motozo, Haruta, Kuwatsuka, Munekata, and Imamoto. 3,025,136.

Haruyama, Ichizo. Apparatus for cutting chemical tows. 3,045,520, 7–24–62, Cl. 83—201.

Harvánek, Pavel, to Zdarske strojirny a slerarny. Flywheel press. 3,035,514, 5–22–62, Cl. 100—264.

Harvard Mfg. Co., The: *See*—
Sands, Hillard J. 3,066,319.

Harvath, John J.: *See*—
Lanham, Philip H., Jack, and Harvath. 3,062,352.

Harvel, Loyd F., and R. C. Meisenheimer. Tool for replacing oil filters. 3,066,559, 12–4–62, Cl. 81—53.

Harvel Research Corp.: *See*—
Falella, John D. 3,017,382.
Harvey, Mortimer T. 3,065,184.
Harvey, Mortimer T., and Rosamilia. 3,016,092.

Harvengt, Edmond. Automatic discharge for magnetic medium separators. 3,023,902, 3–6–62, Cl. 209—172.5.

Harvest Queen Mill & Elevator Co.: *See*—
Collins, Donald P., Jr. 3,067,721.
McLean, Douglas K. 3,039,428.
Mills, Robert L., and Bryan. 3,036,530.

Harvestore Products, Inc.: *See*—
Hacker, Frederick W. 3,016,128.

Harvey, Allan M., K. S. Karsten, and W. S. Taylor, to R. T. Vanderbilt Co., Inc. Bacteriostats. 3,024,163, 3–6–62, Cl. 167—31.

Harvey Aluminum (Inc.): *See*—
Loevenstein, Hirsch, Carlson, and Gunderson. 3,019,895.

Harvey, Archibald C., to The Paterson Engineering Co. Ltd. Galvanic detector. 3,043,764, 7–10–62, Cl. 204—195.

Harvey, Arthur, to Copymation, Inc. Corrosive fluid container fitting. 3,050,218, 8–21–62, Cl. 222—498.

Harvey, Don A.: *See*—
Meier, Wilber L., and Harvey. 3,032,657.

Harvey, Douglas J., to General Motors Corp. Refrigerating apparatus. 3,027,725, 4–3–62, Cl. 62—3.

Harvey, Douglas J., to General Motors Corp. Method of growing copper filaments. 3,060,013, 10–23–62, Cl. 75—.5.

Harvey, Edward E. Boat lift. 3,021,965, 2–20–62, Cl. 214—1.

Harvey, George W., and D. F. Brower, to General Dynamics Corp. Discharge device. 3,043,981, 7–10–62, Cl. 313—169.

Harvey, Harmond S.: *See*—
Stern, Ruth B., and Harvey. 3,057,473.

Harvey, Jack B.: *See*—
Adams, Robert T., and Harvey. 3,066,297.
Warren, Thomas B., and Harvey. 3,048,783.

Harvey, James E., and S. F. Michatek, to Eastman Kodak Co. Film gate mechanism. 3,046,833, 7–31–62, Cl. 88—17.
Harvey, John : *See*—
Deska, Theodore J., and Harvey. 3,016,834.
Harvey, John T. C., to Intercontinental Equipment Co., Inc. Means for securing wires or rods in the stressed condition. 3,048,907, 8–14–62, Cl. 24—122.6.
Harvey Machine Co., Inc. : *See*—
Braid, Ralph A. 3,019,733.
Hilton, Ralph W. 3,064,347.
Harvey, Merlin P. : *See*—
Ladd, Elbert C., and Harvey. 3.048,613.
Harvey, Mortimer T., to Harvel Research Corp. Acetone-formaldehyde reaction product corrosion inhibitor. 3,065,-184, 11–20–62, Cl. 252—146.
Harvey, Mortimer T., and P. L. Rosamilia, to Harvel Research Corp. Compositions of matter and methods and steps of making and using the same. 3,016,092, 1–9–62, Cl. 166—31.
Harvey, Oral R. : *See*—
Zeigler, Ralph W., and Harvey. 3,041,512.
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Harvey, Richard. Lattice type plastic grille. 3,058,266, 10–16–62, Cl. 50—262.
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Harvey, Robert L. : *See*—
Hackley, Reginald A., and Harvey. 3,022,195.
Harvey, Ronald G., W. D. Hoffman, and S. H. Patinkin, to Sinclair Research, Inc. Process for the production of alpha olefins. 3,035,104, 5–15–62, Cl. 260—683.15.
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Harvey, William J. Wall molding clamping devices. 3,060,530, 10–30–62, Cl. 20—74.
Harwald Co., Inc., The : *See*—
Grunwald, Robert, Wallace, and Bowen. 3,019,464.
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Harwich, Stanley. Refrigerating process and apparatus for the same. 3,041,853, 7–3–62, Cl. 62—489.
Harwig, Stephen H. : *See*—
Ogle, James C., Jr., Barkley, and Harwig. 3,024,341.
Harwig, Stephen H., to Libbey-Owens-Ford Glass Co. Method of making an electrically conductive article. 3,063,881, 11–13–62, Cl. 154—2.7.
Harwood Cabinets Ltd. : *See*—
Shumacher, Eric. 3,063,483.
Harwood, Floyd E. : *See*—
Parsons, John T., and Harwood. 3,020,115.
Harwood, Floyd E., and J. T. Parsons, to Parsons Corp. Time recording system and apparatus. 3,024,077, 3–6–62, Cl. 346—22.
Harwood, Floyd E., and R. R. Mast, to Parsons Corp. Recording apparatus. 3,052,402, 9–4–62, Cl. 234—128.
Harwood, Geo. S., & Son, Inc. : *See*—
Jee, Albert R. 3,040,387.
Harwood, Harold J. : *See*—
Marshall, Mervin D., and Harwood. 3,031,509.
Harwood, Harold J., and K. A. Pollart, to Monsanto Chemical Co. Preparation of phosphine sulfides. 3,053,900, 9–11–62, Cl. 260—606.5.
Harwood, Kenneth J., to Kimberly-Clark Corp. Puffed cellulosic product and method of manufacture. 3,025,199, 3–13–62, Cl. 154—46.
Harwood, Kenneth J., to Kimberly-Clark Corp. Manufacture of apertured cellulosic products. 3,038,215, 6–12–62, Cl. 19—161.
Harwood, Kenneth J., to Kimberly-Clark Corp. Manufacture of cellulosic product. 3,046,986, 7–31–62, Cl. 128—290.
Harwood, Kenneth J., to Kimberly-Clark Corp. Non-woven fabric and method of making the same. 3,047,444, 7–31–62, Cl. 154—46.
Harwood, Kenneth J., J. C. Bletzinger, and W. U. Day, to Kimberly-Clark Corp. Cellulosic product. 3,029,817, 4–17–62, Cl. 128—290.
Harwood, Kenneth J., and C. I. Rickard, to Kimberly-Clark Corp. Sanitary product. 3,038,474, 6–12–62, Cl. 128—288.
Harwood, Louis J. : *See*—
Harwood, Milton G. and L. J. 3,066,651.
Harwood Mfg. Co. : *See*—
Swislow, Sidney. 3,021,105.
Harwood, Mark H. : *See*—
Napolin, Seymour, and Harwood. 3,047,824.
Harwood, Milton G. and L. J. Poultry blinder and fastener. 3,066,651, 12–4–62, Cl. 119—97.
Hartzog, James B. Bait well assembly. 3,039,224, 6–19–62, Cl. 43—56.
Harza Patents : *See*—
Harza, Richard D. 3,068,763.
Harza, Richard D., to Harza Patents. Top seal. 3,068,763, 12–18–62, Cl. 94—18.
Hasala, Ernest N. : *See*—
Regan, George P., Sr., and Hasala. 3,031,339.
Hasbany, Woodrow A., to Clark Equipment Co. Regulating valve. 3,023,773, 3–6–62, Cl. 137—495.
Hasbrook, Arthur F., to O. S. Petty. Apparatus for sonic geophysical exploration. 3,020,970, 2–13–62, Cl. 181—.5.
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Hasbrouck, Augustus, and R. S. Thompson, to United Aircraft Corp. Circumferential bleed valve. 3,057,541, 10–9–62, Cl. 230—114.
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Hasbrouck, Richard B. : *See*—
Schock, Richard U., Jr., Hasbrouck, and Dickson. 3,020,-283.
Hasbrouck, Richard B., and A. Alter, to Abbott Laboratories. Phenylarsonic acid compositions. 3,030,269, 4–17–62, Cl. 167—53.1.
Hasche, Blanche K. : *See*—
Hasche, Rudolph L. 3,044,861.
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Hase, Alfred M., to McGraw-Edison Co. Selenium rectifiers and their method of manufacture. 3,052,572, 9–4–62, Cl. 117—200.
Hase, Hermann : *See*—
Stiel, Andreas, and Hase. 3,068,961.
Hasek, Robert H. : *See*—
Elam, Edward U., Hasek, and Martin. 3,017,395.
Hasekamp, Lester W., to The Porcel Engineering Co. Metallic wall construction. 3,045,784, 7–24–62, Cl. 189—34.
Haselhorst, John B. : *See*—
Schroth, Emil A., Kern, and Haselhorst. 3,038,623.
Haselmann, Heinrich : *See*—
Fiala, Ernst J. H., and Haselmann. 3,021,172.
Haseltine, Robert C., to Engelhard Industries, Inc. Method of making a composite tube. 3,041,719, 7–3–62, Cl. 29—517.
Haselton, William M. : *See*—
Walsh, John C., Haselton, Holland, and Juhl. 3,051,096.
Haseman, Joseph F. : *See*—
Fenske, Douglas H., and Haseman. 3,067,875.
Haseman, Joseph F., to International Minerals & Chemical Corp. Beneficiation of ores. 3,022,956, 2–27–62, Cl. 241—24.
Hasenfratz, Willi, to Forschungs Anstalt fur Mechanik. Apparatus for bending a flexible metal wire or strip. 3,068,-782, 12–18–62, Cl. 100—26.
Hashimoto, Tenzo N., to Kakawateez, Ltd. Confection and method of making. 3,063,843, 11–13–62, Cl. 99—126.
Haskell, Boris. Honeycomb structures. 3,070,198, 12–25–62, Cl. 189—82.
Haskell, Philip R., R. E. Evans, P. A. Ketchpel, Jr., and L. B. Connor, to Remington Arms Co., Inc. Cartridge-powered piston type tool. 3,024,464, 3–13–62, Cl. 1—44.5.
Haskell, Philip R., R. E. Evans, L. B. Connor, and P. A. Ketchpel, Jr., to Remington Arms Co., Inc. Cartridge-powered piston type tool. 3,024,530, 3–13–62, Cl. 30—92.
Haskell, Philip R., R. E. Evans, P. A. Ketchpel, Jr., and L. B. Connor, to Remington Arms Co., Inc. Cartridge-powered piston type tool. 3,024,531, 3–13–62, Cl. 30—272.
Haskell, Philip R., R. E. Evans, P. A. Ketchpel, Jr., and L. B. Connor, to Remington Arms Co., Inc. Cartridge-powered piston type tool. 3,024,666, 3–13–62, Cl. 30—358.
Haskell, Philip R., R. E. Evans, P. A. Ketchpel, Jr., and L. B. Connor, to Remington Arms Co., Inc. Shock absorbing and energy dissipating means. 3,024,749, 3–13–62, Cl. 60—26.1.
Haskell, Theodore H., J. Ehrlich, R. F. Pittillo, and L. E. Anderson, to Parke, Davis & Co. Actinobolin and its fermentative production. 3,043,830, 7–10–62, Cl. 260—239.5.
Haskett, William C., to The Upjohn Co. α-chloro-m-nitroacetophenone fungicide. 3,050,441, 8–21–62, Cl. 167—30.
Haslam, John H., to E. I. du Pont de Nemours and Co. Organic titanium compounds. 3,030,320, 4–17–62, Cl. 260—18.
Haslam, John H., to E. I. du Pont de Nemours and Co. Organic titanium compounds. 3,032,570, 5–1–62, Cl. 260—429.5.
Haslam, John H., to E. I. du Pont de Nemours and Co. Titanium acylate silicone copolymers. 3,035,071, 5–15–62, Cl. 260—414.
Haslam, Maurice B., and O. C. Miles, to Avco Corp. Tape recording system and method. 3,048,830, 8–7–62, Cl. 340—174.1.
Haslehurst, Arthur K., ½ to Joseph Sankey & Sons Ltd. Wick-type burners having electric igniting devices. 3,040,-804, 6–26–62, Cl. 158—94.
Hasler, Edmond F. : *See*—
Douglas, John L., Hasler, and Vick. 3,029,383.
Hasler, Herbert G. : *See*—
Hawthorne, William R., and Hasler. 3,056,373.
Hasler, Walter, and W. F. Birrer, to E. Mettler. Electrical measuring device for a precision balance. 3,058,076, 10–9–62, Cl. 336—30.
Haslett, Roy W. G. : *See*—
Brown, Thomas G., Rankin, and Haslett. 3,041,872.
Halliday, William, Haslett, and Sothcott. 3,031,251.
Haslett, Roy W. G., P. R. Hopkin, and N. H. Benning, to Kelvin & Hughes Ltd. Echo detection with delayed read out. 3,019,411, 1–30–62, Cl. 340—1.

Haslett, William H., Jr. : *See*—
Gessler, Albert M., and Haslett. 3,037,954.
Hasley, Howard A., to Allis-Chalmers Mfg. Co. Sealing mechanism for oscillatable separators. 3,022,893, 2–27–62, Cl. 209—405.
Haslup, Robert E., to General Motors Corp. Flexible conduit hinge for domestic appliances. 3,042,471, 7–3–62, Cl. 312—223.
Hass, Henry B., to Purdue Research Foundation. Propellants. 3,042,559, 7–3–62, Cl. 147—47.
Hass, John B. E., to Separator, Aktiebolaget. Fluid-operated actuating device for welding tongs and the like. 3,065,733, 11–27–62, Cl. 121—38.
Hass, Karl, H. Ottersky, and K. Stolzel, to Feldmuhle Papier- und Zellstoffwerke Aktiengesellschaft. Metallic current conductor mounting for a horizontal graphite electrode in an electrolytic cell. 3,037,928, 6–5–62, Cl. 204—286.
Hass, Martin A. Stablizing artificial tooth. 3,060,576, 10–30–62, Cl. 32—2.
Hassan, Arnold : *See*—
Chapin, Donald A., Hassan, and Orr. 3,053,026.
Hasse, Alexander M. : *See*—
Castro, Raoul, and Hasse. 3,045,483.
Hasselbach, Wolfgang, A. Bauer, and H. Scherer, to Firma Max Braun. Phonograph. 3,027,164, 3–27–62, Cl. 274—9.
Hassell, Dennis R. Log bunk with stake easily releasable from a remote station. 3,023,592, 5–8–62, Cl. 280—145.
Hasselman, Herbert P., to Sylvania Electric Products Inc. Double loose turn picker. 3,018,803, 1–30–62, Cl. 140—71.5.
Hasselo, William C. : *See*—
Chidsey, Francis A., Jr., and Hasselo. 3,049,282.
Hasselquist, Victor H., to The B. F. Goodrich Co. Transfer mechanism for bias cut fabric pieces. 3,019,018, 1–30–62, Cl. 271—74.
Hasselquist, Victor H., to The B. F. Goodrich Co. Belt conveyor apparatus. 3,037,548, 6–5–62, Cl. 156—536.
Hasselquist, Victor H. Container flattening apparatus. 3,043,212. 7–10–62, Cl. 100—233.
Hasser, George L. : *See*—
Horwitz, Henry L., Hasser, Cox, and Westhead. 3,037,-084.
Hassid, Maurice A., to The British Vacuum Flask Co. Ltd. Containers. 3,039,639, 6–19–62, Cl. 215—13.
Hassing, Oluf S. Electro-mechanical production of half-tone blocks. 3,043,906, 7–10–62, Cl. 178—6.6.
Hassle, Apotekare Paul Nordstroms, Aktiebolaget : *See*—
Brandstrom, Arne E. 3,068,284.
Hassler, Winfield S. Pour spout carton. 3,055,571, 9–25–62, Cl. 229—17.
Hassold, Gabriel, nee Endras, to Ballonfabrik Augsburg, vorm. A. Riedinger. Inflatable life-saving dinghies. 3,058,127, 10–16–62, Cl. 9—11.
Hastings, Franklin G., R. Mueller, and J. J. Preotle, to General Motors Corp. Refrigerating apparatus. 3,048,902, 8–14–62, Cl. 20—69.
Hastings, James A. : *See*—
Hong, James, Cathaway, Richter, and Hastings. 3,023,-985.
Hastings, Kenneth E., to International Business Machines Corp. Electrodynamic relay. 3,062,935, 11–6–62, Cl. 200—87.
Hastings Mfg. Co. : *See*—
Anderson, Hugo F. 3,048,948.
Stevens, Guy L. 3,066,557.
Hastings, Paul F. : *See*—
Merry, Albert B., and Hastings. 3,043,028.
Hastings, Russell, Jr., to Clark Equipment Co. Lift truck with counter-rotating dual traction motors. 3,057,426, 10–9–62, Cl. 180—42.
Hastings, Warren W., to American Radiator & Standard Sanitary Corp. Bourdon tube pressure gauge. 3,069,910, 12–25–62 Cl. 73—411.
Hastings, Whitney. Mop. 3,064,295, 11–20–62, Cl. 15—147.
Hastrich, Friedrich, to Nadler-Werke Dr. Paul Nadler. Process for sterilizing or pasteurizing food products. 3,041,-186, 6–26–62, Cl. 99—211.
Hasty, Robert A. : *See*—
McKinney, William W., Hasty, and Noska. 3,055,370.
Hasty, Robert R. Folding or knock-down golf cart. 3,023,020, 2–27–62, Cl. 280—36.
Haswell, Ronald, to Sir Howard Grubb Parsons & Co. Ltd. A.C. frequency changing means. 3,036,218, 5–22–62, Cl. 250—218.
Haszeldine, Robert N. Coupling of halogenated organic compounds. 3.046.304, 7–24–62, Cl. 260—513.
Haszeldine, Robert N. Polymerization of vinylic nitroso compounds and products thereof. 3,058,961, 10–16–62, Cl. 260—87.5.
Haszeldine, Robert N. Process for the preparation of polyfluoroolefins. 3,069,479, 12–18–62, Cl. 260—648.
Haszeldine, Robert N., H. Iserson, and F. E. Lawlor, to Pennsalt Chemicals Corp. Preparation of tertahalomethanes. 3.069,481, 12–18–62, Cl. 260—664.
Hat Corp. of America : *See*—
Hoffman, Stanley G. 3,069.690.
Salesky, Charles H., and Havens. 3,054,113.
Hata, Toju, R. Sugawara, and A. Matsumae. Protomycin and its production. 3,023,145, 2–27–62, Cl. 167—65.
Hata, Toju, R. Sugawara, A. Matsumae, and Y. Sano. Antibiotic melanomycin. 3,067,100, 12–4–62, Cl. 167—65.
Hatch, Albert J. : *See*—
Ulrich, Aaron J., Butler, and Hatch. 3,022,236.
Hatch, Arthur R., to American Motors Corp. Wiper blade parking device. 3,019,468, 2–6–62, Cl. 15—250.19.
Hatch, Arthur R., to American Motors Corp. Combination back and head rest. 3,063,751, 11–13–62, Cl. 297—410.
Hatch, Donald M., to Curtiss-Wright Corp. Machine for molding plastic articles. 3,035,630, 5–22–62, Cl. 156—498.
Hatch, Dorrill K. : *See*—
Carlson, Frank A., Jr., Hatch, and Whittier. 3,070,475.
Hatch, George B., to Hagan Chemicals & Controls, Inc. Methods of inhibiting the pitting of iron and steel. 3,022,133, 2–20–62, Cl. 21—2.7.
Hatch, Melvin J., to The Dow Chemical Co. Thioether cation exchange resins. 3,030,317, 4–17–62, Cl. 260—2.2.
Hatch, Melvin J., to The Dow Chemical Co. Composite ion exchange resin bodies. 3,041,292, 6–26–62, Cl. 260—2.1.
Hatch, Melvin J., and J. A. Dillon, Jr., to The Dow Chemical Co. Separation of strong polybasic acids from their salts. 3,067,007, 12–4–62, Cl. 23—105.
Hatch, Meredith R. Work feed and drive therefor. 3,057,312, 10–9–62, Cl. 113—38.
Hatch, Virgil O., to United States of America, Army. Stop leak composition consisting of ground nut shells, castor oil and polyvinyl alcohol. 3,034,998, 5–15–62, Cl. 260—17.4.
Hatch, William H. : *See*—
Norberen, Leo D., and Hatch. 3,018,181.
Hatchard, William R., to E. I. du Pont de Nemours and Co. 3 - cyano - [1,3] - dithiolo - [4,5-c] - isothiazole - Δ^{5a} - malononitrile and process. 3,048,596, 8–7–62, Cl. 260—302.
Hatcher, Cecil W., to Concrete Sawing Equipment, Inc. Concrete slurry cutter. 3,037,755, 6–5–62, Cl. 262—20.
Hatcher, Ernest C. Propellers or the like having variable-pitch blades. 3,051,248, 8–28–62, Cl. 170—160.32.
Hatcher, Julian P., G. E. Atherton, and W. L. Cox, to Universal Oil Products Co. Metal deactivator composition of low freezing properties. 3,043,783, 7–10–62, Cl. 252—403.
Hatcher, Norman M. : *See*—
Gillespie, Warren, Jr., Hatcher, and Guillotte. 3,038,-077.
Hatcher, Robert L., to Noll Mfg. Co. Cap assembly. 3,041,-955, 7–3–62, Cl. 98—46.
Hatfield, Cleburne B., to Strato-Missiles, Inc. Propulsion system with automatic control of fuel and air. 3,024,596, 3–13–62, Cl. 60—35.6.
Hatfield, Frederick A., to McGraw-Edison Co. Method of forming a conductive coil on a closed magnetic core. 3,021,599, 7–10–62, Cl. 29—155.57.
Hatfield, John E., to Irving Air Chute Co., Inc. Parachute pack container fastener and release mechanisms. 3,032,303, 5–1–62, Cl. 244—148.
Hatfield, John E., to Irving Air Chute Co., Inc. Quickly releasable buckle for safety and harness strap. 3,060,537, 10–30–62, Cl. 24—197.
Hatfield, Robert W., to Harry T. Campbell Sons' Corp. Ontrack truck carriages. 3,057,306, 10–9–62, Cl. 105—159.
Hathaway, Clayton E., Jr., D. C. Goetz, and R. H. Kottke, to Archer-Daniels-Midland Co. Water-soluble mold and core binders and method. 3,046,147, 7–24–62, Cl. 106—38.9.
Hathaway, Richard A. : *See*—
Galke, Ralph W., and Hathaway. 3,038,728.
Hathorn, Don H., and T. L. Brown, to Halliburton Co. Multiple completion sand screen. 3,039,535, 6–19–62, Cl. 166—226.
Hatke, Fred L. : *See*—
Zworykin, Vladimir K., and Hatke. 3,052,232.
Hatkin, Leonard, to United States of America, Army. Directive antenna scanning and tracking device and applications thereof. 3,064,258, 11–13–62, Cl. 343—757.
Hatler, Hosea : *See*—
Hornick, Frank, and Hatler. 3,031,330.
Hatsopoulos, George N., and J. Kaye, to Thermo Electron Engineering Corp. Process and apparatus for converting thermal energy into electrical energy. 3,054,914, 9–18–62, Cl. 310—4.
Hatstat, Robert G., G. H. Lockwood, and W. D. Schmidt, to The Heald Machine Co. Grinding machine. 3,019,565, 2–6–62, Cl. 51—165.
Hattan, Mark, 6% to W. P. Green. Lock nut having segmented thread structure. 3,039,507, 6–19–62, Cl. 151—14.
Hatten, Bernard W., and W. A. Gallaer, to Westinghouse Electric Corp. Motor support and vibration isolation means. 3,043,970, 7–10–62, Cl. 310—91.
Hattenhauer, Albert W., to Standard Fire Hose Co. Fire extinguisher cabinet. 3,067,822, 12–11–62, Cl. 169—1.
Hatton, Norman G. : *See*—
Goodall, Donald G., Hatton, and Roberts. 3,067,578.
Hatton, Roger E. : *See*—
Campbell, John R., and Hatton. 3,020,315.
Hattori, Kiyoshi : *See*—
Gavlin, Gilbert, and Hattori. 3,052,669.
Solomon, Irvine J., Klein, and Hattori. 3,053,899.
Hattori, Kiyoshi, J. J. Finn, and M. J. Klein, to Callery Chemical Co. Production of alkyldecaboranes. 3,038,943, 6–12–62, Cl. 260—606.5.
Hattori, Kyuhachi, to Kasho Kabushiki Kaisha. Drainage trap. 3,042,210, 7–3–62, Cl. 210—163.
Hatz, Ernst, Jr., to Motorenfabrik Hatz, Gesellschaft mit beschrankter Haftung. Decompression devices for internal combustion engines. 3,057,336, 10–9–62, Cl. 123—182.

Hatzinger, Hans: *See*—
Bergstrasser, Georg, and Hatzinger. 3,067,304.
Haubein, Albert H., to Hercules Powder Co. Condensates of hexachlorocyclopentadiene with 1,4-dichlorobutene-2. 3,065,128, 11–20–62, Cl. 167—30.
Haubold, Dieter. Staple driving machine. 3,058,114, 10–16–62, Cl. 1—3.1.
Haubold, Dieter. Fastening means for stapling machines. 3,060,439, 10–30–62, Cl. 1—46.
Hauck, Aloysius J., to Basic Products Corp. Circuit means. 3,061,828, 10–30–62, Cl. 340—251.
Hauck, John F., to Allis-Chalmers Mfg. Co. Leak annunciator unit. 3,016,525, 1–9–62, Cl. 340—242.
Hauck Mfg. Co.: *See*—
Turpin, Alexander J. 3,045,745.
Haück, Michael, and M. Wiese, to Maschinenfabrik Augsburg-Nurnberg AG. Staple wire cutting device for printing press stitching apparatus. 3,017,634, 1–23–62, Cl. 1—7.
Hauck, Paul A.: *See*—
Harper, Willard J., Bagwell, and Hauck. 3,058,604.
Harper, Willard J., Hauck, Moll, and Dutcher. 3,022,881.
Haueisen, Batist R. Coating scratch resistance indicator. 3,021,707, 2–20–62, Cl. 73—150.
Hauel, Anna P.: *See*—
Van Nordstrand, Robert A., Teter, Keith, and Hauel. 3,058,907.
Hauenstein, Gunther: *See*—
Hoppe, Alfred, Langner, Westerhoff, Wolke, and Hauenstein. 3,019,179.
Hauer, Erwin F. Wall construction. 3,038,278, 6–12–62, Cl. 50—262.
Haug, Anton J. Paper fibre processing machine and method of working pulp fibres. 3,042,321, 7–3–62, Cl. 241—157.
Haug, Chester J., G. S. Van Deusen, and J. H. Selby, to The Warner & Swasey Co. Balling head. 3,042,330, 7–3–62, Cl. 242—54.4.
Haug, John S., to United Engineers & Constructors Inc. Checkerbrick for use in gas-making apparatus. 3,037,758, 6–5–62, Cl. 263—51.
Haug, Richard J., Jr. Shock-absorbent heel construction. 3,043,024, 7–10–62, Cl. 36—36.
Haug, Roy L.: *See*—
Foss, Frederic, and Haug. 3,063,366.
Haube, Barth: *See*—
Oppegaard, Assur G., Hauge, and Aas. 3,050,362.
Haugwitz, Otto, to Societe Anonyme Geoffroy-Delore. System for handling wire and the like. 3,056,433, 10–2–62, Cl. 140—2.
Haugwitz, Otto, to Societe Anonyme Geoffroy-Delore. Method and apparatus for producing improved conductor cables. 3,061,997, 11–6–62, Cl. 57—58.52.
Haugwitz, Otto, to Geoffroy-Delore, Societe Anonyme. Drag speed controlling device for a cable in a stranding machine. 3,067,564, 12–11–61, Cl. 57—34.
Haugwitz, Otto, to Geoffroy-Delore, Societe Anonyme. Stranding machine. 3,067,568, 12–11–62, Cl. 57—66.
Hauk, Ernest D., and H. M. Turley, to Klampon Thread Protector. Thread protector for use during running of tubular elements into an oilwell. 3,038,502, 6–12–62, Cl. 138—96.
Haumann, Wilfried, to Union Carbide Corp. Method and apparatus for producing a homogeneous thermal insulation mixture. 3,020,234, 2–6–62, Cl. 252—62.
Haumann, Wilfried, to Union Carbide Corp. Dispensing apparatus for low-temperature storage containers. 3,034,845, 5–15–62, Cl. 312—268.
Haumann, Wilfried, to Union Carbide Corp. Plug for low temperature storage containers. 3,069,044, 12–18–62, Cl. 220—14.
Haumann, Wilfried, and R. J. Berta, to Union Carbide Corp. Apparatus for storing and dispensing materials at low temperatures. 3,052,370, 9–4–62, Cl. 220—17.
Haumann, Wilfried, and J. L. Griggs, to Union Carbide Corp. Thermally insulated storage container. 3,069,045, 12–18–62, Cl. 220—15.
Hauni-Werke Korber & Co. K.G.: *See*—
Hagenah, Klaus, and Peters. 3,028,865.
Harnack, Werner W. R. 3,039,588.
Koch, Hans, and Peters. 3,055,374.
Pollmann, Max. 3,039,587.
Richter, Willy. 3,045,681.
Ritscher, Arthur, and Schubert. 3,044,225.
Rode, Ludwig. 3,044,370.
Rudszinat, Willy. 3,039,373.
Rudszinat, Willy. 3,058,568.
Schubert, Bernhard. 3,039,473.
Schubert, Bernhard. 3,052,163.
Schubert, Bernhard, and Harnack. 3,024,585.
Schubert, Bernhard, and Rudszinat. 3,036,733.
Stelzer, Carl. 3,039,367.
Wachsmuth, Willi. 3,047,132.
Haunost, Daniel A., to Midwest Folding Products Mfg. Corp. Convertible table-bench. 3,061,369, 10–30–62, Cl. 297—124.
Haupin, Warren E., and E. A. Maduk, to Aluminum Co. of America. Carbon anode. 3,060,115, 10–23–62, Cl. 204—290.
Haüpt, Eugen, R. Leinhos, W. Rilk, K. Schubart, and K. Wustemann, to C. Zeiss. Field glass with shock protection covering. 3,033,079, 5–8–62, Cl. 88—34.
Haupt, Frank J., to The Western Union Telegraph Co. Tape reading punch. 3,016,186, 1–9–62, Cl. 234—28.
Haupt, Fritz, to Maag Gear Wheel & Machine Co, Ltd. Gear assembly in which a drive from a driving shaft to a driven shaft is distributed through two parallel intermediate shafts. 3,036,475, 5–29–62, Cl. 74—410.
Haupt, Max, and H. C. Bartels. Massive reinforced concrete floor and ceiling structures. 3,053,509, 9–11–62, Cl. 257—124.
Haupt, Walter H., to Keleket X-ray Corp. X-ray apparatus. 3,068,357, 12–11–62, Cl. 250—57.
Haupt, Wilhelm, H. Kelch, and D. Straub, to Kienzle Apparate G.m.b.H., Firma. Meter arrangement for fluid dispensing apparatus. 3,031,103, 4–24–62, Cl. 222—20.
Hauptmann, Gunther: *See*—
Merten, Rudolf, Von Brachel, Holtschmidt, and Hauptmann. 3,070,556.
Hauptmann, Karl H., and K. Zeile, to C. H. Boehringer Sohn. Process for the separation of genins from glycosides. 3,022,294, 2–20–62, Cl. 260—239.55.
Hauptner, H.: *See*—
Bruchhaus, Paul Ch. 3,051,172.
Hauptschein, Murray: *See*—
Iserson, Hyman, Lawlor, and Hauptschein. 3,062,794.
Hauptschein, Murray, to Pennsalt Chemicals Corp. Acetyl-4-trifluoromethylsalicyclic acid. 3,019,253, 1–30–62, Cl. 260—479.
Hauptschein, Murray, to Pennsalt Chemicals Corp. Trifluoromethylhydroxybenzoic acids and their group I metal salts. 3,052,603, 9–4–62, Cl. 167—58.
Hauptschein, Murray, to Pennsalt Chemicals Corp. Process for controlling fungae diseases with acetyl-4-trifluoromethyl-salicylic acid. 3,065,135, 11–20–62, Cl. 167—58.
Hauptschein, Murray, M. Braid, and F. E. Lawlor, to Pennsalt Chemicals Corp. Organic fluorine compounds. 3,019,258, 1–30–62, Cl. 260—543.
Hauptschein, Murray, and M. Braid, to Pennsalt Chemicals Corp. Halogenated organic compounds. 3,047,636, 7–31–62, Cl. 260—653.
Hauptschein, Murray, M. Braid, and F. E. Lawlor, to Pennsalt Chemicals Corp. Halogenated organic compounds. 3,051,764, 8–28–62, Cl. 260—653.1.
Hauri, Paul: *See*—
Hurlimann, Hans, and Hauri. 3,067,405.
Schmid, Hans, and Hauri. 3,025,496.
Hauritz, Svend E.: *See*—
Weber, Joseph R., and Hauritz. 3,046,029.
Haus, Joseph B., and R. W. Price, to S. B. Penick and Co. Process for purifying pyrethrum extracts. 3,042,706, 7–3–62, Cl. 260—468.
Hausammann, Werner. Variable nozzles, in particular laval nozzles for wind tunnels. 3,045,705, 7–24–62, Cl. 138—45.
Hausammann, Werner. Turbo rotor. 3,059,834, 10–23–62, Cl. 230—134.
Hausch, Walter R., to The Firestone Tire & Rubber Co. Laminated article and method of making same. 3,019,148, 1–30–62, Cl. 154—48.
Hauschild, Friedrich: *See*—
Petsch, Ernst, and Hauschild. 3,028,006.
Hause, Gilbert K.: *See*—
Kelley, Oliver K., and Hause. 3,021,727.
Kelley, Oliver K., and Hause. 3,048,241.
Hause, Gilbert K., to General Motors Corp. Transmission. 3,021,726, 2–20–62, Cl. 74—677.
Hause, Gilbert K., to General Motors Corp. Power transmission system. 3,029,662, 4–17–62, Cl. 74—695.
Hause, Gilbert K., to General Motors Corp. Transmission. 3,033,335, 5–8–62, Cl. 192—3.2.
Hause, Gilbert K., to Private Pro Co. Practice golf club. 3,033,575, 5–8–62, Cl. 273—193.
Hause, Gilbert K., to General Motors Corp. Split torque transmission. 3,039,325, 6–19–62, Cl. 74—677.
Hause, Gilbert K., to General Motors Corp. Transmission. 3,042,162, 7–3–62, Cl. 192—4.
Hause, Gilbert K., to General Motors Co. Transmission. 3,053,361, 9–11–62, Cl. 192—48.
Hause, Gilbert K., to General Motors Corp. Variable capacity fluid supply. 3,067,689, 12–11–62, Cl. 103—42.
Hause, Gilbert K., and O. K. Kelley, to General Motors Corp. Multi-phase transmission. 3,062,074, 11–6–62, Cl. 74—677.
Hause, Norman L., and W. H. Todd, to E. I. du Pont de Nemours and Co. Process for enriching the L-lysine content of food and the resulting product. 3,015,567, 1–2–62, Cl. 99—143.
Hausel, Charles L.: *See*—
Truitt, Joseph A., and Hausel. 3,064,911.
Hauser, Fred. Timing devices. 3,040,227, 6–19–62, Cl. 318—443.
Hauser, Fred. Timing device. 3,040,228, 6–19–62, Cl. 318—443.
Hauser, Fred. Distributors. 3,056,426, 10–2–62, Cl. 137—624.
Hauser, Jon W.: *See*—
Hasbrouck, Paul A., and Hauser. 3,059,645.
Hauser, Philip L., to Root-Lowell Mfg. Co. Combination pump and dust receptacle. 3,045,388, 7–24–62, Cl. 43—147.
Hauser, Richard: *See*—
Gamel, Gayne D., and Hauser. 3,045,083.
Hauserman, E. F., Co., The: *See*—
Fowles, Gilbert L., and Pollock. 3,033,330.
Pollock, Gordon J., and Fowles. 3,026,977.
Sacks, Henry W. 3,027,273.

Haushalter, Fred L. Vibration dampener. 3,041,889, 7–3–62, Cl. 74—574.

Haushalter, Fred L. Method of making a vibration dampener. 3,058,208, 10–16–62, Cl. 29—451.

Haushalter, Fred L. Vibration dampener. 3,058,371, 10–16–62, Cl. 74—574.

Haushalter, Roger W.: *See*—
Bubniak, William C., Haushalter, Ricketts, Turunen, and Vickers. 3,057,604.

Hauskama, Elmer J. Rear view mirror anti-glare shield. 3,022,109, 2–20–62, Cl. 296—97.

Hauskrecht, Toni: *See*—
Pohl, Franz A., and Hauskrecht. 3,016,289.

Hausmann, George F., to United Aircraft Corp. Boundary layer control apparatus for compressors. Re. 25,253, 10–9–62, Cl. 230—122.

Hausmann, George F., to United Aircraft Corp. Fluid valve. 3,016,063, 1–9–62, Cl. 137—597.

Hausmann, Werner, to Schlepperwerk Nordhausen, VEB. Vehicle track. 3,054,644, 9–18–62, Cl. 305—35.

Hausmann, Werner, and R. Vogel, to VEB Schlepperwerk Nordhausen. Hydraulic control valve. 3,015,344, 1–2–62, Cl. 137—625.

Hausmann, Werner, and K. Hentschel, to Schlepperwerk Nordhausen, VEB. Control arrangement for power-take-off systems. 3,040,588, 6–26–62, Cl. 74—15.2.

Hausser, Raymond E., W. Majeske, and N. L. Hubbard, to Severance Tool Industries, Inc. Stop-countersink tool. 3,028,774, 4–10–62, Cl. 77—73.5.

Häussermann, Kurt, P. Maucher, and H. Stallbaumer, to Lamellen-und Kupplungsbau August Haussermann. Clutch, especially for motor vehicles. 3,016,120, 1–9–62, Cl. 192—89.

Haussner, Theodor H. W., and R. Easton, to Koppers Co., Inc. Continuous casting machine. 3,040,397, 6–26–62, Cl. 22—57.3.

Hausted, Ray K., to Simmons Co. Adjustable bed rails. 3,051,534, 2–28–62, Cl. 5—331.

Hausweiler, Arnold, R. Seydel, and R. Stroh, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of 3,5-disubstituted-4-hydroxy benzoic acids and their esters. 3,029,276, 4–10–62, Cl. 260—473.

Hausz, Walter, to General Electric Co. Radar tracking and antenna systems. 3,040,310, 6–19–62, Cl. 343—7.

Hautau, Charles F.: *See*—
Distel, Richard, and Hautau. 3,048,213.

Hautau, Charles F. Aircraft wheel powering device. 3,059,712, 10–23–62, Cl. 180—10.

Haute-Fourneaux et Forges d'Allevard, Societe des: *See*—
Saives, Leon. 3,038,220.

Hauth, Joseph J., to United States of America, Atomic Energy Commission. Vibration compaction. 3,042,594, 7–3–62, Cl. 204—154.2.

Hauth, Joseph J., and R. J. Anicetti, to United States of America, Atomic Energy Commission. Method of preparing a fuel element for a nuclear reactor. 3,067,117, 12–4–62, Cl. 204—154.2.

Hautz, Harry W. Golf ball marking device. 3,019,762, 2–6–62, Cl. 118—76.

Havac Ltd.: *See*—
Highfield, Frank W. W., and Brierley. 3,037,607.

Havel, Edward V.: *See*—
Kanter, Jerome J., Lahr, and Havel. 3,066,392.

Haven, Alfred C., Jr., to E. I. du Pont de Nemours and Co. Aminocyclopentadienyl (cyclopentadienyl) iron. 3,035,074, 5–15–62, Cl. 260—439.

Haven, Byron D., and M. G. Smith, to International Business Machines Corp. Pulse repetition rate converter. 3,063,013, 11–6–62, Cl. 328—34.

Haven, Frank H.: *See*—
Vradenburg, Robert, Scribner, and Haven. 3,044,034.

Havener, Leslie N., to Erico Products, Inc. Clip type fastener. 3,055,686, 9–25–62, Cl. 287—51.

Havens, Byron L., to International Business Machines Corp. Electronic multiplier-divider. 3,018,957, 1–30–62, Cl. 235—159.

Havens, Carl B., and G. A. Clark, to The Dow Chemical Co. 4-acyloxy-2'-hydroxybenzophenone. 3,024,270, 3–6–62, Cl. 260—476.

Havens, Carl B., R. G. Brookens, to The Dow Chemical Co. 2'-hydroxy-3'-nitro-5'-phenylpropiophenone. 3,048,637, 8–7–62, Cl. 260—592.

Havens, Carl B., and J. B. Hannah, to The Dow Chemical Co. Roll starting method and mechanism for a rewinder. 3,066,882, 12–4–62, Cl. 242—56.

Havens, Carl B., and R. G. Brookens, to The Dow Chemical Co. Esters of epoxy fatty acids and 2,4-dihydroxy benzophenone. 3,068,193, 12–11–62, Cl. 260—45.85.

Havens, Charles R.: *See*—
Salesky, Charles H., and Havens. 3,054,113.

Haver & Boecker: *See*—
Haver. Fritz. 3,045,770.

Haver, Fritz, to Haver & Boecker. Packing machine for granular and powdered materials. 3,045,770, 7–24–62, Cl. 177—69.

Haverberg, Loren R., to J. Flapan. Wheel washer apparatus. 3,058,133, 10–16–62, Cl. 15—21.

Haverland, William H., and B. M. Brush, to J. J. Monaghan Co., Inc. Volume-controlled actuator for bistable valve mechanisms. 3,067,760, 12–11–62, Cl. 137—63.

Haverstock, Julius J., and R. M. Goodman, to Philco Corp. Laundering machines. 3,017,758, 1–23–62, Cl. 68—19.

Haviland, Girard S., to The Jacobs Mfg. Co. Collet. 3,022,082, 2–20–62, Cl. 279—1.

Haviland, Horace N. Drum beater. 3,055,254, 9–25–62, Cl. 84—422.

Havirco, Jennie L.: *See*—
Huber, Ralph L. 3,032,037.

Havlick, Howard T.: *See*—
Oestermeyer, Carl F., Raney, Koenig, and Havlick. 3,036,140.

Havnen, Egil, Electronic speed control system for motor vehicles and roads. 3,042,136, 7–3–62, Cl. 180—82.1.

Havner, Robert S. Carpet cushion and backing fabric therefor. 3,058,194, 10–16–62, Cl. 28—80.

Hawa Machinery Ltd.: *See*—
Noda, Shozo. 3,067,471.

Hawes, Herbert B.: *See*—
Kesner, Richard N., and Hawes. 3,015,492.

Hawes, Roland C.: *See*—
Cary, Henry H., and Hawes. 3,025,746.

Hawes, Russell B., to Sanders Associates, Inc. Radar guidance control system. 3,025,024, 3–13–62, Cl. 244—14.

Hawes, William H. Continuous framing accessories for structural beams. 3,058,553, 10–16–62, Cl. 189—36.

Hawie, Gabriel S., to The Hawie Mfg. Co. Display means. 3,031,161, 4–24–62, Cl. 248—223.

Hawie, Gabriel S., to The Hawie Mfg. Co. Clip. 3,049,782, 8–21–62, Cl. 24—260.

Hawie, Jacob S., to The Hawie Mfg. Co. Fastener for elastic bandage. 3,039,461, 6–19–62, Cl. 128—171.

Hawie, Jacob S., to The Hawie Mfg. Co. Connecting device. 3,058,183, 10–16–62, Cl. 24—81.

Hawie Mfg. Co., The: *See*—
Hawie, Gabriel S. 3,031,161.
Hawie, Gabriel S. 3,049,782.
Hawie, Jacob S. 3,039,461.
Hawie, Jacob S. 3,058,183.

Hawk Bilt Mfg. Corp.: *See*—
Elwick, Keith D. 3,020,883.
Elwick, Keith D. 3,035,547.
Elwick, Keith D. 3,048,409.

Hawk, Carl D.: *See*—
McCombs, Howard L., Fodroci, and Hawk. 3,040,715.

Hawk, Dale W., to Allis-Chalmers Mfg. Co. Coupling mechanism. 3,058,558, 10–16–62, Cl. 192—67.

Hawk, Leonard H., and E. G. Stacey. Bar soap holder. 3,054,211, 9–18–62, Cl. 45—28.

Hawk, Le Roy R.: *See*—
Brady, Kenneth J., and Hawk. 3,037,674.

Hawk, Thomas F., ⅓ to R. H. Hill and C. J. Hoover. Silo seal structure. 3,049,070, 8–14–62, Cl. 99—235.

Hawk, Thomas F., and E. L. Springer. Door structure for auger feed silos. 3,048,946, 8–14–62, Cl. 50—112.

Hawk, Thomas F., and R. H. Hill. Storage bin. 3,058,623, 10–16–62. Cl. 222—95.

Hawk, Thore C. Welding torch. 3,035,155, 5–15–62, Cl. 219—75.

Hawkes, Harold G.: *See*—
Hawkes, Ralph O. and H. G., Morrison, and Sirles. 3,017,997.

Hawkes, Howard T., C. M. Ginn, and J. H. Sabasteanski, to Southworth Machine Co. Ream transfer apparatus and method. 3,017,041, 1–16–62, Cl. 214—8.5.

Hawkes, Ralph O. and H. G., R. M. Morrison, and A. R. Sirles, to Komline-Sanderson Engineering Corp. Endless belt and drum type vacuum filter. 3,017,997, 1–23–62, Cl. 210—401.

Hawkes, William T. Cable splice. 3,047,651, 7–31–62, Cl. 174—84.

Hawkey, Charles W.: *See*—
Hamilton, Thomas, and Hawkey. 3,039,497.

Hawkey, Charles W., to Westinghouse Electric Corp. Device for curling support wires. 3,063,473, 11–13–62, Cl. 140—71.6.

Hawkins, David M., and D. E. Abell, to Westinghouse Electric Corp. Generator fed motor control system. 3,036,254, 5–22–62, Cl. 318—143.

Hawkins, Donald K., to ACF Industries, Inc. Dynamic servo driven magnetostrictive delay line. 3,020,650, 2–13–62. Cl. 35—8.

Hawkins, Donald K., to ACF Industries Inc. Data flow evaluator and trainer. 3,061,945, 11–6–62. Cl. 35—13.

Hawkins, Harold M., to Phillips Petroleum Co. Concentration of aqueous solutions. 3,017,751, 1–23–62, Cl. 62—58.

Hawkins, Havilah S. Work feed device for band saws. 3,068,913, 12–18–62, Cl. 143—26.

Hawkins, Jack S., to Jennings Radio Mfg. Corp. Vacuum switch. 3,042,774, 7–3–62, Cl. 200—104.

Hawkins, James E., W. R. Hunsicker, and E. H. Mahoney, to Seismograph Service Corp. Apparatus for retrieving lost lanes in hyperbolic position finding systems. 3,027,555, 3–27–62, Cl. 343—105.

Hawkins, James E., S. W. Schoellhorn, and R. W. Baltosser, to Seismograph Service Corp. Seismic reproducing and recording device. 3,046,553, 7–24–62, Cl. 346—17.

Hawkins, Merrill L. Apparatus for organic typography. 3,045,794, 7–24–62, Cl. 197—1.

Hawkins, Robert D., to Sperry Rand Corp. Vibration and shock isolator. 3,049,344, 8–14–62, Cl. 267—1.

Hawkins, Samuel R.: *See*—
Ellenbogen, Leon, and Hawkins. 3,020,204.

Hawkins, Thane E., and S. E. Weikal, to Talon, Inc. Shoe fastening device. 3,059,351, 10–23–62, Cl. 36—50.

Hawkins, Wallace G.: *See*—
Webb, Charles E., and Hawkins. 3,044,122.
Hawkins, Walter L., and F. H. Winslow, to Bell Telephone Laboratories, Inc. Composition including a saturated hydrocarbon polymer stabilized with oxygenated or sulfurized carbon black. 3,042,649, 7–3–62, Cl. 260—41.
Hawkins, William M.: *See*—
Feigley, David A., Jr., and Hawkins. 3,058,872.
Hawkinson, Donald R., and D. B. Todd, to Shell Oil Co. Feeding powder at uniform rates. 3,062,589, 11–6–62, Cl. 302—56.
Hawkinson, Paul E., Co.: *See*—
Sornsen, Wallace V. 3,043,565.
Hawks, Huron B. Fish lure. 3,017,716, 1–23–62, Cl. 43—42.16.
Hawks, Huron B. Fish lure. 3,034,249, 5–15–62, Cl. 43—42.15.
Hawks, Otis J. Hydraulic door control device. 3,025,558, 3–20–62, Cl. 16—51.
Hawks, Verl J., to Bell Telephone Laboratories, Inc. Control circuits. 3,016,857, 1–16–62, Cl. 114—23.
Hawks, Verl J., to Bell Telephone Laboratories, Inc. Control circuits. 3,033,146, 5–8–62, Cl. 114—23.
Hawley, Alfred E.: *See*—
Clerard, Alfred E., Hawley, and Klein. 3,039,951.
Hawley, Charles F., to Riley Stoker Corp. Power plant. 3,057,165, 10–9–62, Cl. 60—73.
Hawley, Don M., to Hawley Products Co. Process of making felted containers. 3,015,603, 1–2–62, Cl. 162—117.
Hawley, Edwin L.: *See*—
Gonda, Desire, and Hawley. 3,035,956.
Hawley, James F., to General Motors Corp. Wiring harness for electrically heated variable pitch propeller blade. 3,042,-346, 7–3–62, Cl. 244—134.
Hawley, Jesse G.: *See*—
Yazell, Harold N., Jr., and Hawley. 3,052,327.
Hawley Products Co.: *See*—
Haerther, William W., Jr. 3,026,958.
Haertler, William W., Jr. 3,032,138.
Hawley, Don M. 3,015,603.
Hawley, Richard A., to Meat Packers Equipment Co. Mold for food products. 3,017,822, 1–23–62, Cl. 100—240.
Hawley, Richard A., to Meat Packers Equipment Co. Food mold loading apparatus. 3,061,345, 10–30–62, Cl. 287—119.
Hawley, Roger S., R. E. Clayton, and D. J. Buckley, to Esso Research and Engineering Co. Composition comprising a copolymer of an isoolefin and a multiolefin and 2-mercaptoimiozoline and blends thereof with an unsaturated rubber. 3,055,857, 9–25–62, Cl. 260—41.5.
Hawley, Wilbur W., and D. J. Haykin, Jr., to United States of America, Navy. Folding fin. 3,063,375, 11–13–62, Cl. 102—50.
Haworth, Lionel, K. A. Basford, P. B. Smith, and H. S. Bottoms, to Rolls-Royce Ltd., and Joseph Lucas (Industries) Ltd. Aircraft engine control mechanisms. 3,067,628, 12–11–62, Cl. 74—471.
Haworth, Russell G.: *See*—
Knill, Raymond R., McLaughlin, Priesnitz, Conder, and Haworth. 3,019,890.
McLaughlin, Asa L., Priesnitz, Haworth, Fleming, Conder, and Frost. 3,052,455.
Haws, Ernest R. Foldable partitions. 3,068,936, 12–18–62, Cl. 160—40.
Hawthorne, Arthur L.: *See*—
Meger, Alfred F., and Hawthorne. 3,047,243.
Hawthorne, John O., and M. H. Wilt, to United States Steel Corp. Polyvinyl-alcohol resin resistant to water and method of making it. 3,023,199, 2–27–62, Cl. 260—91.3.
Hawthorne, John O., and M. S. Morgan, to United States Steel Corp. 2-hydroxyethoxy-2'-biphenylcarboxylic acid and method of making it. 3,061,638, 10–30–62, Cl. 260—520.
Hawthorne, Kenneth B., and F. A. Maguire, to Johnson & Johnson. Display stand. 3,045,835, 7–24–62, Cl. 211—149.
Hawthorne, William R., and H. G. Hasler, to Dracone Developments Ltd. Flexible barges. 3,056,373, 10–2–62, Cl. 114—74.
Hawtin, Percy, to Percy Hawtin, and Ashley Bending Co. Ltd. Dental apparatus. 3,069,775, 12–25–62, Cl. 32—27.
Hawtin, Selwyn G.: *See*—
Grebby, John W., Hawtin, and Downing. 3,046,608.
Larman, William T., Hawtin, and Downing. 3,023,075.
Hawver, Roy, and J. W. Jamieson, to Ford Motor Co. Latching mechanism. 3,052,493, 9–4–62, Cl. 292—5.
Haxo, Henry E., R. C. Barton, and L. J. Schaffner, to United States Rubber Co. Adhering vinylpyridine-butadiene rubbers to other rubbers. 3,018,812, 1–30–62, Cl. 152—330.
Hay, Arthur D., to McLean Engineering Laboratories. Ventilating apparatus. 3,047,211, 7–31–62, Cl. 230—119.
Hay, Claude H., to Baldwin Instrument Co. Ltd. Machine tool feed apparatus. 3,039,443, 6–19–62, Cl. 121—48.
Hay, Donald A., to Alloyd Research Corp. Heat treating devices. 3,036,824, 5–29–62, Cl. 266—4.
Hay, Peter M. G. R. Mitchell, and P. P. Salatiello, to Olin Mathieson Chemical Corp. Coating polyolefin film and coating method. 3,041,208, 6–26–62, Cl. 117—138.8.
Hay, Russell G., and R. W. Helwig, to Gulf Research & Development Co. Process for converting normal hexane to benzene. 3,033,906, 5–8–62, Cl. 260—673.5.
Hay, Russell G., and C. W. Montgomery, to Gulf Research & Development Co. Process for the regeneration of aromatization catalysts. 3,044,963, 7–17–62, Cl. 252—412.
Hay, Russell G., L. F. Meyer, and C. M. Selwitz, to Gulf Research & Development Co. Process for preparing an oily polymer from a mixture of propylene and ethylene. 3,068,-306, 12–11–62, Cl. 260—683.15.
Hay, Warren H.: *See*—
Peek, Sandford C., Jr., and Hay. 3,070,723.
Hay, Wayne W., to Air Reduction Co., Inc. Artificial respiration apparatus. 3,033,196, 5–8–62, Cl. 128—29.
Hayao, Shin: *See*—
Fancher, Otis E., and Hayao. 3,037,982.
Hayao, Shin, to Miles Laboratories, Inc. Phenyltetrahydropyranylpiperazines. 3,037,981, 6–5–62, Cl. 260—26.
Hayao, Shin, to Miles Laboratories, Inc. Phenylpiperazinylalkyl esters. 3,038,901, 6–12–62, Cl. 260—268.
Hayasaka, Enakichi and S. Non-stop variable angular velocity ratio conveying mechanism. 3,067,631, 12–11–62, Cl. 74—686.
Hayasaka, Shigeaki: *See*—
Hayasaka, Enakichi and S. 3,067,631.
Hayashi, Masao. Mixer. 3,063,684, 11–13–62, Cl. 259—102.
Hayashi, Ryozo: *See*—
Kitahabe, Katsuni, Hayashi, and Takasaki. 3,061,635.
Hayashi, Takeo: *See*—
Sawamura, Toshio, and Hayashi. 3,022,961.
Hayba, Franklin P., and R. F. Hotaling, to Crescent Metal Products, Inc. Latching mechanism. 3,021,795, 2–20–62, Cl. 104—48.
Hayball, George D., E. W. Peterson, and T. H. Johnson, to Santa Barbara Research Center. Bolometer. 3,052,861, 9–4–62, Cl. 338—18.
Hayden, Albert P., and A. O. Mason, to United States Steel Corp. Helical spring wire tie. 3,069,491, 12–18–62, Cl. 174—94.
Hayden, Ernest A. Lumber saw attachment for chain saws. 3,051,203, 8–28–62, Cl. 143—32.
Hayden, Frederick L.: *See*—
Kelday, Roy M., and Hayden. 3,038,592.
Hayden, James C., to V. L. Hayden. Train coach hydrant. 3,063,466, 11–13–62, Cl. 137—307.
Hayden, John: *See*—
Coates, William H., and Hayden. 3,057,701.
Hayden, Noel E. Swivel chair for bath tubs. 3,022,518, 2–27–62, Cl. 4—185.
Hayden, Ralph L., and R. R. Steele, to Johns-Manville Fiber Glass Inc. Metering device and method. 3,023,729, 3–6–62, Cl. 118—234.
Hayden, Ralph L., and W. D. Poole, to Johns-Manville Fiber Glass Inc. Apparatus for packaging a strand of a flexible material. 3,040,999, 6–26–62, Cl. 242—43.
Hayden, Ray, Morgan, and E. B. Morgan, to American Seating Co. Kneeler bar mountings. 3,015,521, 1–2–62, Cl. 297—426.
Hayden, Robert B., to E. I. du Pont de Nemours and Co. Melt spinning monitoring means. 3,036,334, 5–29–62, Cl. 18—8.
Hayden, Velma L.: *See*—
Hayden, James C. 3,063,466.
Hayden, William: *See*—
Georgette, Nicholas J., and Hayden. 3,035,833.
Haydn, Hildegard: *See*—
Schnage, Wilhelm, Seibert, and Haydn. 3,025,160.
Haydock, Raymond, to R. Haydock, trustee. Caster sleeve. 3,015,124, 1–2–62, Cl. 16—43.
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Haydon, Arthur W. Re. 25,305.
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Korsgren, Theodore Y., Jr. 3,057,223.
Korsgren, Theodore Y., Sr., and T. Y., Jr. 3,062,932.
Hayer, Frederick W. Rotary electric shaver. 3,035,343, 5–22–62, Cl. 30—44.
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Hayes, C. I., Inc.: *See*—
Westeren, Herbert W. Re. 25,261.
Hayes, Charles F.: *See*—
Barrelle, Roland J., and Hayes. 3,048,015.
Hayes, Charles F., to General Motors Corp. Combustion liner. 3,064,425, 11–20–62, Cl. 60—39.65.
Hayes, Dudley W., to FMC Corp. Vertical screw press. 3,035,511, 5–22–62, Cl. 100—117.
Hayes Engineers (Leeds) Ltd.: *See*—
Hayes, Hubert G. 3,065,737.
Hayes, Hubert G., and Woodruff. 3,023,778.
Woodruff, Joseph B. 3,024,808.
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Crockford, Jack A., Hayes, Jenkins, and Feurt. Re. 25,279.
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Hayes, Harold L., to Barber-Colman Co. Regulator for constant volume control of gas flow. 3,049,146, 8–14–62, Cl. 137—517.
Hayes, Henry L., to Roark Toark Tool Co. Torque clutch Re. 25,274, 10–30–62, Cl. 192—56.
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Hartley, Robert A., Pester, and Hayes. 3,069,279.
Hayes, John B., to Deere & Co. Harvester reel mounting and adjusting mechanism. 3,030,758, 4–24–62, Cl. 56—222.
Hayes, John C.: *See*—
Padberg, Louis R., Jr., Parker, Hayes, and Papineau. 3,066,278.
Hayes, John C., to Zonolite Co. Method of exfoliating vermiculite. 3,062,753, 11–6–62, Cl. 252—378.
Hayes, John C. Manual auxiliary control system for automatic chokes. 3,064,953, 11–20–62, Cl. 261—39.
Hayes, John D., to Bausch & Lomb Inc. Projection optical system. 3,018,688, 1–30–62, Cl. 88—57.
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Hayes, Thomas P. Quickly detachable shoulder carrying slings for use with shoulder-supported firearms. 3,035,746, 5–22–62, Cl. 224—1.
Hayes Track Appliance Co.: *See*—
Hayes, Stanley W. 3,027,851.
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Hayes, William J., to Shell Oil Co. Method and apparatus for installing guide lines at underwater wellheads. 3,050,-140, 8–21–62, Cl. 175—7.
Hayes, William J., to Shell Oil Co. Method and apparatus for cleaning a wellhead guide system. 3,062,287, 11–6–62, Cl. 166—43.
Hayes, William J., to Shell Oil Co. Replaceable marine marker. 3,066,325, 12–4–62, Cl. 9—8.
Hayeshaw Ltd.: *See*—
Roscoe, Samuel. 3,035,404.
Hayford, Richard E., and C. B. Kaiser, to Xerox Corp. Xerographic color reproduction. 3,057,720, 10–9–62, Cl. 96—1.
Haykin, David J., Jr.: *See*—
Hawley, Wilbur W., and Haykin. 3,063,375.
Haymaker, Jack E.: *See*—
Hallay, Alexander, and Haymaker. 3,058,033.
Haymes, William G., and A. C. Keathley, to Phillips Petroleum Co. Solid propellant rocket motor. 3,026,674, 3–27–62, Cl. 60—35.6.
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Hayner, Paul F., T. W. Thompson, C. R. Walker, M. G. Pfeifer, H. W. Campman, Jr., and H. W. Boothroyd, to Sanders Associates, Inc. Automatic blade slope control system. 3,026,638, 3–27–62, Cl. 37—156.
Haynes, Frank G., to The International Nickel Co., Inc. Nickel-chromium casting alloy with niobides. 3,069,258, 12–18–62, Cl. 75—171.
Haynes, Frederick E.: *See*—
Skowron, John F., Haynes, and Smullin. 3,069,588.
Haynes, Harold E., to Radio Corp. of America. Composite photography. 3,037,422, 6–5–62, Cl. 88—24.
Haynes, Harold L.: *See*—
Marzocchi, Alfred, and Haynes. 3,040,413.
Haynes, Harry L., to Union Carbide Corp. Diphenyl sulfide nematocide. 3,021,258. 2–13–62, Cl. 167—30.
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Haynes, Homer A.: *See*—
Stephens, Joseph F., Higgins, and Haynes. 3,020,192.
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Haynie, Herschel M., Sr. Fishing lure with concealed expansible hooks. 3,059,371, 10–23–62, Cl. 43—35.
Hays, Edwin E., to Wallace & Tiernan Inc. Pharmaceutical composition containing a resin-narcotic compound and a resin-antihistamine compound. 3,035,979, 5–22–62, Cl. 167—72.
Hays, Edwin E., and L. Michelson, to Wallace & Tiernan Inc. Codeine and 2-methyl-3-O-tolyl-4-quinazolone analgesic composition. 3,051,623, 8–28–62, Cl. 167—67.
Hays Mfg. Co.: *See*—
Windsor, Richard T. 3,036,782.
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Hays, Richard Y., to E. I. du Pont de Nemours and Co. Yarn traversing apparatus. 3,059,874, 10–23–62, Cl. 242—158.5.
Hays, Willard C., and G. I. Doering, to Industrial Nucleonics Corp. Extrusion process controls. 3,015,129, 1–2–62, Cl. 18—12.
Hayssen Mfg. Co.: *See*—
Gausman, Alfred P., and Zellmer. 3,050,916.
Hayter, Charles E.: *See*—
Bourne, William G., and Hayter. 3,023,286.
Hayter, Mary E.: *See*—
Hayter, Richard B. 3,023,003.
Hayter, Richard B., 29⅛% to R. Barnum, 8⅛% to W. J. Dayton, 8⅛% to E. M. Salone, 8⅛% to B. G. Salone, and 8⅛% to Mary E. Hayter. Toy game gun and table including ball control. 3,023,003, 2–27–62, Cl. 273—119.
Hayward, Albert J., to The George Cohen 600 Group Ltd. Machine tools. 3,028,778, 4–10–62, Cl. 82—29.
Hayward, Edward J.: *See*—
Moody, John C., Ellis, Hayward, and Houston. 3,030,-426.
Hayward, George W. Booster-type casting apparatus. 3,052,-055, 9–4–62, Cl. 43—19.
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Hayward, Norman G.: *See*—
Kienlen, Berthol J., and Hayward. 3,036,169.
Haywood, George L.: *See*—
Camp, John E., Mueller, Sandholdt, and Haywood. 3,020,139.
Haywood, George L., to Norton Co. Abrasive product. 3,016,-294, 1–9–62, Cl. 51—297.
Haywood, Lester D. Connector for antenna lead-in. 3,042,-892, 7–3–62, Cl. 339—100.
Hazard, Frances R. Garment shaper. 3,063,607, 11–13–62, Cl. 223—69.
Hazdra, James J.: *See*—
Karabinos, Joseph V., Hazdra, and Ferlin. 3,062,878.
Hazel, Herbert K., to International Business Machines Corp. Trim and clinch device. 3,034,382, 5–15–62, Cl. 78—1.
Hazelett, Richard: *See*—
Hazelett, Robert W. and R. 3,036,348.
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Hazeltine Research, Inc.: *See*—
Bailey, William F. 3,015,763.
Brabham, Hugh B. S. 3,064,199.
Dow, Jennings B. 3,046,537.
Espenlaub, Walter C. 3,056,853.
Farber, Richard J. 3,070,750.
Hallden, Frederick C., and Rodriguez. 3,045,913.
Hazeltine, Alan. 3,054,561.
Heacock, William J., Jr. Re. 25,226.
Hirsch, Charles J. 3,015,689.
Hirsch, Charles J. 3,034,439.
Loughlin, Bernard D. Re. 25,284.
Loughlin, Bernard D. 3,043,909.
Marley, John. 3,015,152.
Marley, John. 3,037,143.
Nixon, Ralph D. 3,037,419.
Proudfit, Alexander. 3,038,072.
Proudfit, Alexander. 3,047,872.
Regis, Robert. 3,047,818.
Ribchester, Eric. 3,024,304.
Ribchester, Eric. 3,035,117.
Richman, Donald. 3,015,728.
Richman, Donald. 3,030,491.
St. John, Karl M. 3,038,027.
Stone, Gerald. 3,035,178.
White, John R. 3,017,576.
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Hazen Engineering Co.: *See*—
Nichols, Howard H., and Keller. 3,061,194.
Hazen, Gretzolon L., and A. W. Theilig, to Rockwood & Co. Temperature and humidity control systems for air-conditioning cabinets. 3,056,553, 10–2–62, Cl. 236—3.
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Head, James R.: *See*—
Wooldridge, William D. 3,019,451.
Head, Victor P., to Fischer & Porter Co. High-capacity rotameter. 3,024,654, 3–13–62, Cl. 73—209.
Head, Victor P., to Fischer & Porter Co. Solids concentration measuring and regulating device. 3,027,756, 4–3–62, Cl. 73—53.
Head, Wrightson & Co. Ltd.: *See*—
Barnard, Dennis A., and Nossiter. 3,047,915.
Headrick, Jessie L. Valve. 3,036,813. 5–29–62, Cl. 251—196.
Headrick, Richard T., to Bowser, Inc. Erector type air transportable fueling system. 3,028,010, 4–3–62, Cl. 210—172.
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Hahn, Robert S. 3,056,238.
Hatstat, Robert G., Lockwood, and Schmidt. 3,019,565.
Lockwood, George H. 3,032,935.
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Martinec, Eugene F. 3,052,234.
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Healy, Verne R.: *See*—
McCorkel, Franklin M., and Healy. 3,070,231.
Heaps, John F.: *See*—
Lindstrom, Mary D., Fantl, Cohen, and Heaps. 3,058,938.
Heaps, Stanley N.: *See*—
Frost, Holloway H., and Heaps. 3,048,847.
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Hearst, Jack W., to Automatic Burner Corp. Oil burner construction. 3,027,933, 4–3–62, Cl. 158—28.
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Heaslip, Donald B.: *See*—
Tepolt, Florian E., and Heaslip. 3,019,356.
Heatbath Mfg. Co.: *See*—
Du Fault, Homer D., and Kuhm, Maurice, Paul E. 3,042,020.
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Brittain, Clarence F., and Jones. 3,024,764.
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Bartok, William, and Heath. 3,061,646.
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Heath, Robert B.: *See*—
Stelzer, Roland B., Grossman, and Heath. 3,063,150.
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Heatley, William A., Jr.: *See*—
Fischer, Paul E., Heatley, and Sorkin. 3,048,088.
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Heckelmann, Karlheinz, and Hebbel. 3,022,169.
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Glynn, Emmett P., and Hebenstreit. 3,032,505.

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Hebenstreit, Lester V.: *See*—
Cutsogeorge, George A., Hebenstreit, and Spaven. 3,038,106.
Dennis, David H., and Hebenstreit. 3,067,589.

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Heberlein, Georg. 3,017,685.
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Held, Max R. 3,041,814.
Raschle, Joseph. 3,058,289.
Weiss, Ernst. 3,058,192.
Weiss, Ernst, and Prokesch. 3,053,038.

Heberlig, Jack C.: *See*—
Faget, Maxime A., Bland, and Heberlig. 3,038,175.

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Hebermehl, Reinhard: *See*—
Zankl, Erich, and Hebermehl. 3,045,034.

Hebert, Fred C. Sprinkler flushing system and fitting. 3,059,702, 10–23–62, Cl. 169—37.

Hebert, Gerard E.: *See*—
Millington, Alfred F., and Hebert. 3,036,679.

Hebert, Gladys F. Petticoat. 3,039,114, 6–19–62, Cl. 2—212.

Hébert, Jacques: *See*—
De La Tramerye, Raymond, and Hébert. 3,031,023.

Hebert, John W., to Calcinator Corp. Domestic refuse and garbage incinerators. 3,043,246, 7–10–62, Cl. 110—8.

Hebert, John W., and P. G. La Rue. Burner shield and pilot assembly. 3,035,533, 5–22–62, Cl. 110—8.

Hebert, John W., P. R. Schubert, and H. L. Coles, to Calcinator Corp. Incinerators. 3,043,245, 7–10–62, Cl. 110—8.

Hebert, John W., and P. G. La Rue, to Calcinator Corp. Incinerators. 3,043,247, 7–10–62, Cl. 110—8.

Hebert, John W., and P. G. La Rue, to Calcinator Corp. Incinerators. 3,043,249, 7–10–62, Cl. 110—8.

Hebras, Frederic J. M. Manufacture of pleated skirts. 3,034,135, 5–15–62, Cl. 2—211.

Hechenbleiknер, Ingenuin, and A. T. Gaul, to Hooker Chemical Corp. Transesterification process for making trialiphatic phosphite esters. 3,056,823, 10–2–62, Cl. 260—461.

Hechenbleiknер, Ingenuin, and K. R. Molt, to Carlisle Chemical Works, Inc. Alkyl tin. 3,059,012, 10–16–62, Cl. 260—429.7.

Hechler, Georg, and P. Weber, to Phrix-Werke A.G. Method for simultaneously producing fibers of different denier and similar crimp. 3,038,779, 6–12–62, Cl. 18—54.

Hechler, Valentine, IV, and J. Weinberg, to Webcor, Inc. Fluid motor. 3,035,550, 5–22–62, Cl. 121—38.

Hecht, Herbert, to Sperry Rand Corp. Automatic pilot for dirigible craft. 3,021,097, 2–13–62, Cl. 244—77.

Hecht, Herbert, to Sperry Rand Corp. Flight control equipment. 3,058,700, 10–16–62, Cl. 244—77.

Hecht, Herbert, and L. Kaufman, to Sperry Rand Corp. Aircraft altitude control system. 3,070,333, 12–25–62, Cl. 244—77.

Hecht, Isidore, ½ to Milton Hecht. Clinching hubs for buffing rings. 3,015,915, 1–9–62, Cl. 51—193.

Hecht, Marianne: *See*—
Stransky, Gustave. 3,045,631.
Stransky, Gustave. 3,045,632.

Hecht, Milton: *See*—
Hecht, Isidore. 3,015,915.

Hecht, Victor. Carburetor valve assembly. 3,054,594, 9–18–62, Cl. 251—333.

Hechtle, Emil, to Radiant Pen Corp. Writing device. 3,064,624, 11–20–62, Cl. 120—42.3.

Hechtman, John F., and E. G. Greenman, to Kimberly-Clark Corp. Cellulosic product. 3,019,134, 1–30–62, Cl. 117—155.

Hechtman, John F., and E. G. Greenman, to Kimberly-Clark Corp. Fiber products and methods of manufacturing comprising base sheet of cellulose fibers saturated with a mixture comprising elastomeric polymer and polar adjunct polymer having carboxylic acid functional group. 3,026,217, 3–20–62, Cl. 117—155.

Hechtman, John F., and E. G. Greenman, to Kimberly-Clark Corp. Cellulosic product and method of manufacture. 3,026,241, 3–20–62, Cl. 162—135.

Hechtman, John F., and E. G. Greenman, to Kimberly-Clark Corp. Compressed top press sheet. 3,053,718, 9–11–62, Cl. 154—54.5.

Hechtman, John F., and E. G. Greenman, to Kimberly-Clark Corp. Cellulosic product comprising saturated fibrous web having a coating comprising vinyl resin and alkyl acrylate-carboxylic acid plasticizer. 3,066,043, 11–27–62, Cl. 117—68.5.

Hechtman, John F., and P. A. Simonen, to Kimberly-Clark Corp. Aqueous emulsion of alkyl acrylate polymer and vinyl copolymer and cellulosic fiber impregnated with same. 3,066,109, 11–27–62, Cl. 260—29.6.

Heck, Arthur W.: *See*—
D'Ettorre, Alfred J., Heck, Kauffman, and Ranville. 3,057,636.

Heck, Carl L.: *See*—
Weber, Joachim F. L., and Heck. 3,015,538.

Heck, Gustav, to Ritter Co., Inc. Syringe for medical and dental purposes. 3,055,366, 9–25–62, Cl. 128—247.

Heck, Merribel V.: *See*—
D'Ettorre, Alfred J., Heck, Kauffman, and Ranville.

Heck, Richard F., to Hercules Powder Co. Copolymers. 3,025,275, 3–13–62, Cl. 260—80.3.

Heck, Richard F., to Hercules Powder Co. Copolymers. 3,025,276, 3–13–62, Cl. 260—80.3.

Heck, Richard F., to Hercules Powder Co. Crystalline poly-(cis-propenyl alkyl ethers). 3,048,573, 8–7–62, Cl. 260—91.1.

Heck, Richard F., and E. J. Vandenberg, to Hercules Powder Co. Process for the polymerization of vinyl ethers. 3,025,283, 3–13–62, Cl. 260—91.1.

Heckathorn, Loyd E., to Towner Mfg Co. Apparatus for converting reciprocatory motion to oscillatory motion. 3,044,313, 7–17–62, Cl. 74—108.

Heckathorn, Loyd E., and S. J. Coughran, to Towner Mfg. Co. Two way plow. 3,042,120, 7–3–62, Cl. 172—210.

Heckel, Hermann C. N.: *See*—
Wheeler, Robert L., and Heckel. 3,030,257.

Heckel, Hermann C. N., and R. T. Jefferson, Jr., to Rea Magnet Wire Co. Article of manufacture utilizing a stranded core construction and method of making. 3,015,686, 1–2–62, Cl. 174—122.

Heckel, Hermann C. N., and R. T. Jefferson, Jr., to Rea Magnet Wire Co., Inc. Article of manufacture comprising an insulated electrical conductor and method of making. 3,018,321, 1–23–62, Cl. 174—110.

Heckel, Hermann C. N., and R. T. Jefferson, Jr., to Rea Magnet Wire Co., Inc. Article of manufacture using a braided core construction and method of making. 3,033,917, 5–8–62, Cl. 174—121.

Heckel, Hermann C. N., and R. T. Jefferson, Jr., to Rea Magnet Wire Co. Inc. Electrical component having a serrated core construction and method of making the component. 3,035,115, 5–15–62, Cl. 174—110.

Heckel, Herman C. N., and R. T. Jefferson, Jr., to The Central Pharmacal Co. Benzyl dextran-amphetamine and method of making same. 3,063,906, 11–13–62, Cl. 167—82.

Heckelman, Richard W., to General Electric Co. Variable transistor circuit discharging a stored capacitance from a load. 3,064,145, 11–13–62, Cl. 307—88.5.

Heckelmann, Karlheinz, and K. Hebbel, to Agfa Aktiengesellschaft Matting of photographic layers. 3,022,169, 2–20–62, Cl. 96—67.

Heckenkamp, Edward B., to Allis-Chalmers Mfg. Co. Tractor-implement hydraulic control system. 3,050,037, 8–21–62, Cl. 121—46.5.

Hecker, Alfred, to Anker-Werke Aktiengesellschaft. Cash drawer mechanism for cash registers and other business machines. 3,015,435, 1–2–62, Cl. 235—22.

Hecker, Arthur C.: *See*—
Leistner, William E., Knoepke, and Hecker. 3,015,644.

Hecker, Arthur C., M. W. Pollock, and I. Rabinovici, to Argus Chemical Corp. Neopentyl glycol alkyl phthalates and polyvinyl chloride compositions plasticized therewith. 3,028,352, 4–3–62, Cl. 260—31.6.

Hecker, Arthur C., O. H. Knoepke, W. E. Leistner, and M. W. Pollock, to Argus Chemical Corp. Transesterification process for producing nonsymmetrical phosphite triesters and products resulting therefrom. 3,056,824, 10–2–62, Cl. 260—461.

Hecker, Robert T. Vehicle transport. 3,035,728, 5–22–62, Cl. 214—505.

Heckethorn, John E.: *See*—
Bourcier de Carbon, Christian M. L. L. 3,038,562.

Heckethorn, John E., to Heckethorn Mfg. & Supply Co. Automatic two-speed drives for automobile accessories. 3,019,874, 2–6–62, Cl. 192—48.

Heckethorn, John E., to Heckethorn Mfg. Supply Co. Seat cushioning means. 3,028,201, 4–3–62, Cl. 297—453.

Heckethorn, John E., to Heckethorn Mfg. & Supply Co. Two aircraft. 3,041,016, 6–26–62, Cl. 244—54.

Heckethorn Mfg. Supply Co.: *See*—
Heckethorn, John E. 3,019,874.
Heckethorn, John E. 3,028,201.
Heckethorn, John E. 3,037,600.
Heckethorn, William W. Method of making a hose nozzle. 3,016,605, 1–16–62, Cl. 29—453.
Heckmaier, Joseph: *See*—
Bauer, Hans, Bergmeister, and Heckmaier. 3,051,668.
Bergmeister, Eduard, Heckmaier, and Doriat. 3,046,609.
Doriat, Martin, Eckart, and Heckmaier. 3,025,565.
Ebersbach, Hans-Walter, and Heckmaier. 3,027,358.
Heckmaier, Joseph, and H. Bauer, to Wacker-Chemie G.m.b.H. Polymerization of vinyl chloride in aqueous suspension. 3,033,839, 5–8–62, Cl. 260—87.1.
Heckmaier, Joseph, and K.-H. Michl, to Wacker-Chemie G.m.b.H. Process of foaming and curing a polyvinyl chloride plastisol by use of subatmospheric pressure and an applied high-frequency electric field, respectively. 3,055,-848, 9–25–62, Cl. 260—2.5.
Heckman, John A. Film-cutting and card holder inserting machine. 3,019,579, 2–6–62, Cl. 53—123.
Hecksher, Helmut, to Xerox Corp. Method and apparatus for transferring images from xerographic to metallic plates. 3,063,859, 11–13–62, Cl. 117—17.5.
Hecox, William, and A. Finlay, Jr., to The Sheffield Corp. Amplitude stabilized oscillator. 3,060,387, 10–23–62, Cl. 331—183.
Hecox, William, and R. E. Martin, to National Industrial Products Co. Digital readout apparatus. 3,061,026, 10–30–62, Cl. 177—13.
Hedberg, Carl W., to Research-Cottrell, Inc. Electrostatic magnetic collecting system. 3,029,577, 4–17–62, Cl. 55—100.
Hedberg, Oscar E., to Gasaccumulator, Svenska Aktiebolaget. Flash arrester for gas conduits. 3,031,285, 4–24–62, Cl. 48—192.
Hedblom, Lars O. Muffler construction. 3,038,552, 6–12–62, Cl. 181—56.
Hedden, David S. Flexible abrasive wheel manufacture. 3,028,709, 4–10–62, Cl. 51—193.5.
Heddendorf, George B., and H. A. Speh, to Burroughs Corp. Card file marking device. 3,018,887, 1–30–62, Cl. 209—73.
Hedegaard, Arne, to Rothenborg Specialmaskiner for Sy-Industrien A/S. Chain cutting apparatus. 3,068,819, 12–18–62, Cl. 112—252.
Hedegaard, Kristen, to G. M. Pfaff AG. Bobbin winding device for sewing machines. 3,059,601, 10–23–62, Cl. 112—218.
Hedeman, Walter R.: *See*—
Gibbs, Thomas E., and Hedeman. 3,028,598.
Heden, Carl G., to Getinge Mekaniska Verkstads Aktiebolag. Cultivation plant. 3,022,229, 2–20–62, Cl. 195—142.
Hedenburg, Oscar F., to Rex Research Corp. Process for making 3,4-methylenedioxy-phenyl-1-polyalkoxy-thio-alkyl and polyalkoxy-methyl ethers. 3,035,063, 5–15–62, Cl. 260—340.5.
Hedenburg, Oscar F., to Rex Research Corp. 3-polyalkoxymethyloxy - 1 - polyalkoxymethyloxy - 2 - methyl - propyl 1,3',4' methylenedioxyphenyl synergists. 3,060,195, 10–23–62, Cl. 260—340.5.
Hederhorst, Fred: *See*—
Bennett, Rufus B., and Hederhorst. 3,038,789.
Hedgcock, Wendell T., to Collins Radio Co. Amplitude modulated A.-C. error signal servosystem with error conversion to pulses and reconversion. 3,056,076, 9–25–62, Cl. 318—29.
Hedgecock, Durwood J., T. E. Lewis, and J. E. Nielsen, to Reynolds Metals Co. Metal strip having rounded edges and method of and apparatus for producing the same. 3,055,241, 9–25–62, Cl. 80—31.1.
Hedgepeth, Edward B. Trailer hitch. 3,021,154, 2–13–62, Cl. 280—406.
Hedger, Frank R.: *See*—
Ray, William A. and Hedger. 3,061,695.
Hedger, John R. Electric iron holder. 3,062,492, 11–6–62, Cl. 248—117.1.
Hedges, Edison, to Thompson Ramo Wooldridge Inc. Ball joint socket assemblies for steering linkage and the like. 3,059,950, 10–23–62, Cl. 287—87.
Hediger, Edwin A.: *See*—
Pepez, Thomas A., and Hediger. 3,064,489.
Hediger, Edwin A., to The Gleason Works. Index mechanism. 3,030,826, 4–24–62, Cl. 74—822.
Hediger, Hermann. Device for measuring the roughness of surfaces. 3,049,002, 8–14–62, Cl. 73—105.
Hedland, Harry A., and P. M. Waterman, to W. Waterman. 3,060,958, 10–30–62, Cl. 137—493.8.
Hedland, Harry A., to W. Waterman. Flow regulators. Flow regulators. 3,015,341, 1–2–62, Cl. 137—493.
Hedlen Co., The: *See*—
Schwarz, Leonard H., and Remkiewicz. 3,069,035.
Hedley, Christopher S.: *See*—
Booth, Cyril, Hedley, and Gilpin. 3,067,049.
Hedley, Norman, to American Cyanamid Co. Increasing precious metal recovery in cyanidation. 3,033,675, 5–8–62, Cl. 75—107.
Hedley, William H., R. J. Roehrs, and C. M. Henderson, to United States of America, Atomic Energy Commission. Flame denitration and reduction of uranium nitrate dioxide. 3,041,136, 6–26–62, Cl. 23—14.5.
Hedlund, Inge E. S.: *See*—
Bernstein, Axel V. and Hedlund. 3,034,379.
Hedman, Sven: *See*—
Lindstrom, Olle, and Hedman. 3,067,121.
Hedrich, Albert L.: *See*—
Kalmus, Henry P., and Hedrich. 3,021,481.
Hedrick, Glen W., to United States of America, Agriculture. Vinyl pionate and polymeric derivatives thereof. 3,030,337, 4–17–62, Cl. 260—63.
Hedrick, Glen W., to United States of America, Agriculture. Amino acids containing a cyclobutane ring. 3,031,499, 4–24–62, Cl. 260—514.
Hedrick, Glen W., to United States of America, Agriculture. Alkyl, ethenyl esters of pinic acid and polymers thereof. 3,063,970, 11–13–62, Cl. 260—78.5.
Hedrick, Glen W., and F. C. Magne, to United States of America, Agriculture. Vinyl chloride polymers plasticized with hydronopyl pinonate. 3,057,814, 10–9–62, Cl. 260—31.2.
Hedrick, Ross M.: *See*—
Butler, John M., Hedrick, and Mottus. 3,017,392.
Butler, John M., Hedrick, and Mottus. 3,018,273.
Butler, John M., Hedrick, and Mottus. 3,028,369.
Mottus, Edward H., Hedrick, and Butler. 3,017,391.
Hedrick, Ross M., to Monsanto Chemical Co. Imides of isobutylene/maleic anhydride interpolymers. 3,053,814, 9–11–62, Cl. 260—78.5.
Hedstrom, Åke. Substructure of interchangeable building components with overlying carriageway. 3,058,132, 10–16–62, Cl. 14—13.
Hedstrom, Carl W., to Hedstrom Union Co. Convertible baby vehicles. 3,019,028, 1–30–62, Cl. 280—36.
Hedstrom Union Co.: *See*—
Hedstrom, Carl W. 3,019,028.
Hedwin Corp.: *See*—
Heeger, Alan J.: *See*—
Nisbet, Thomas R., Heeger, and Morsette. 3,034,011.
Speas, Charles A. 3,035,737.
Winstead, Thomas W. 3,027,044.
Winstead, Thomas W. 3,042,271.
Heenan & Froude Ltd.: *See*—
Evans, Godfrey A. 3,062,046.
Evans, Godfrey A., and Bathurst. 3,033,321.
Jarvis, Ivor M. 3,029,902.
Heeney, Thomas A., Jr.: *See*—
Allen, John P. C., Lobosco, and Heeney. 3,054,886.
Heer, Walter, to Escher Wyss Aktiengesellschaft. Vertical lathe. 3,057,234, 10–9–62, Cl. 82—2.
Heerdt, Donald E., to Ferro Corp. Variable switch. 3,047,-684, 7–31–62, Cl. 200—38.
Heeren, Clyde H. Mulcher. Re. 25,237, 9–11–62, Cl. 172—523.
Heeren, Vernon L., and J. Reed, to Raytheon Co. Microwave transmission line components. 3,036,279, 5–22–62, Cl. 333—9.
Heermans, Thomas W., to Sylvania Electric Products Inc. Rapid wind mechanism for cameras. 3,061,223, 10–30–62, Cl. 242—71.4.
Hees, George W., to Sylvania Electric Products Inc. Ionization vacuum gauge. 3,019,360, 1–30–62, Cl. 313—7.
Heese, William E., and R. F. White, to General Dynamics Corp. Hydraulic rotary actuator. 3,019,771, 2–6–62, Cl. 121—38.
Heestand, Richard L., and M. L. Picklesimer, to United States of America, Atomic Energy Commission. Braze bonding of columbium. 3,046,650, 7–31–62, Cl. 29—488.
Heetman, Alphonsus, to North American Philips Co., Inc. Arrangement for automatic telephone systems. 3,020,353, 2–6–62, Cl. 179—18.
Hefel, Karl, and H. F. von Thungen. Automatic clutch control systems for motor vehicles. 3,066,776, 12–4–62, Cl. 192—.075.
Hefer, Friedrich W.: *See*—
Erath, Louis W., Madeley, and Hefer. 3,044,042.
Heffelfinger, Carl J., to E. I. du Pont de Nemours and Co. Processes for preparing polyethylene terephthalate. 3,048,-564, 8–7–62, Cl. 260—75.
Hefferon, Edward J., and M. Kramcsak, Jr., to The Bassick Co. Caster and socket therefor. 3,065,495, 11–27–62, Cl. 16—43.
Heffler, Milton S., and C. L. Wilson. Polyformal-diisocyanate condensation prepolymers. 3,055,871, 9–25–62, Cl. 260—77.5.
Heffley, Ernest L., and L. J. Miller, to Anchor Hocking Glass Corp. Mechanism and method for applying gaskets. 3,053,221, 9–11–62, Cl. 118—2.
Heffley, Howard H., to The Toledo Plate & Window Glass Co. Hollow ribbed mirror corner protector. 3,047,142, 7–31–62, Cl. 206—62.
Heffron, Charles B.: *See*—
Fernald, Olaf H., and Heffron. 3,062,914.
Heffron, Charles B., and O. H. Fernald, to Westinghouse Electric Corp. Automatic frequency control. 3,045,062, 7–17–62, Cl. 178—69.5.
Heftel, Laurence. Foldable shelf structure. 3,028,016, 4–3–62, Cl. 211—149.
Hegar, Harry J.: *See*—
Warn, Arthur M., and Hegar. 3,055,471.
Hegedus, Balthasar: *See*—
Gutmann, Hugo, Hegedus, and Zeller. 3,065,265.
Hegedus, Steve J. Paint containers for paint applicator rollers. 3,058,145, 10–16–62, Cl. 15—571.
Hegel, George W., and C. E. Tomaszewski, to General Electric Co. Apparatus for threading strip. 3,027,148, 3–27–62, Cl. 263—3.

Hegeman, Andrew R., and C. H. Ringe, to R. Hoe & Co., Inc. Inking mechanism for printing machines. 3,018,727, 1–30–62, Cl. 101—366.

Hegeman, Andrew S., Jr. Loudspeaker. 3,032,136, 5–1–62, Cl. 181—31.

Heger, James J., to United States Steel Corp. Method of making wide flat sheets. 3,066,384, 12–4–62, Cl. 29—19.

Hegerfeld, Richard C. Swimming pools. 3,069,695, 12–25–62, Cl. 4—172.

Hegg, Billy S.: *See*—
Thompson, Thomas J., and Hegg, 3,049,139.

Hegg, Billy S., and N. K. Peters, to The Bendix Corp. Coordinated fuel feed and exhaust jet area control with temperature override. 3,031,840, 5–1–62, Cl. 60—35.6.

Hegge, Edward N., and J. P. McDonough, to United States of America, Army. Projectile for multimissile ammunition. 3,059,578, 10–23–62, Cl. 102—89.

Heggie, Henry W., to Jahill Corp. Knitted fabric run stop. 3,052,110, 9–4–62, Cl. 66—172.

Heggy, James E. Welding electrode holder. 3,045,109, 7–17–62, Cl. 219—143.

Hegland, Reidar, to Aluminum-Industrie-Aktien-Gesellschaft. Furnaces for electrolytic production of aluminum. 3,042,604, 7–3–62, Cl. 204—244.

Hegna, Hans O., to California Research Corp. Carburetor. 3,057,606, 10–9–62, Cl. 261—65.

Hegyi, Moses, to Borg-Warner Corp. Coating thickness control mechanism. 3,022,011, 2–20–62, Cl. 239—97.

Hehl, Karl, to Arburg-Feingeratefabrik oHG Hehl & Sohne. Clamping mechanism for molding press. 3,015,131, 1–2–62, Cl. 18—30.

Hehl, Karl, to Arburg-Feingeratefabrik oHG, Hehl & Sohne. Mutiple stage timing mechanism. 3,033,949, 5–8–62, Cl. 200—38.

Hehl, Karl, to Arburg-Feingeratefabrik oHG, Hehl & Sohne. Injection molding apparatus. 3,034,175, 5–15–62, Cl. 18—30.

Hehl, Karl, to Arburg-Feingeraetefabrik oHG, Hehl & Sohne. Injection molding machine. 3,068,520, 12–18–62, Cl. 18—30.

Hehmeyer, Charles R.: *See*—
Stiglic, Paul M., Shramo, and Hehmeyer. 3,066,653.

Heiart, Robert B.: *See*—
Cohen, Abraham B., and Heiart. 3,035,881.
Cohen, Abraham B., and Heiart. 3,035,915.
Cohen, Abraham B., and Heiart. 3,035,941.

Heiart, Robert B., to E. I. du Pont de Nemours and Co. Process for rendering polyester film receptive to photographic materials and resulting elements. 3,035,916, 5–22–62, Cl. 96—87.

Heiart, Robert B., to E. I. du Pont de Nemours and Co. Photopolymerization process of image reproduction. 3,060,026, 10–23–62, Cl. 96—28.

Heiber, Arnold. Phonograph record folder. 3,057,470, 10–9–62, Cl. 206—62.

Heiberg, Oernulf E., to Whitin Machine Works. Torque controlled strand tensioning system and method. 3,015,203, 1–2–62, Cl. 57—93.

Heiberg, Oernulf E., to Institute of Textile Technology. Mechanical analog computer. 3,027,069, 3–27–62, Cl. 235—61.

Heiberger, Francis E., and D. T. Kennedy, to Danly Machine Specialties, Inc. Automatic shut height motor control circuit. 3,028,531, 4–3–62, Cl. 318—29.

Heid Aktiengesellschaft, Maschinenfabrik: *See*—
Tschirf, Ludwig, Gärtner, and Janovsky. 3,042,170.

Heid, James M.: *See*—
McCarter, Donald C., Ramachandran, and Heid. 3,047,917.

Heidelberg, Götz, to Bölkow-Entwicklungen Kommanditgesellschaft. Propulsive means for aircraft. 3,039,537, 6–19–62, Cl. 170—135.4.

Heideman, Leslie R., to International Shoe Co. Device for changing quickly the sole and heel pattern in a vulcanizing machine. 3,045,282, 7–24–62, Cl. 18—17.

Heidemann, Wilhelm: *See*—
Peter, Julius, Heidemann, Ellegast, and Juffa. 3,039,297.

Heidenhain, Johannes, to Wenczler & Heidenhain, Fa. Projection device for reading and setting length and angular dimensions. 3,031,923, 5–1–62, Cl. 88—24.

Heidenreich & Harbeck: *See*—
Apitz, Gerhard. 3,020,808.

Heidenwolf, Hermann, ½ to H.-G. Biermann. Rivet combination. 3,047,181, 7–31–62, Cl. 218—29.

Heidenwolf, Hermann, ½ to H.-G. Biermann. Hand-operated tool for riveting by means of tubular rivets receiving a shank. 3,048,296, 8–7–62, Cl. 218—42.

Heider, Merle J. Portable self-drilling device. 3,060,769, 10–30–62, Cl. 77—13.

Heidergott, Harry W., to Western Electric Co., Inc. Article advancing and ejecting apparatus. 3,045,819, 7–24–62, Cl. 209—74.

Heidersberger, Richard W.: *See*—
Mapes, Daniel, Orsini, and Heidersberger. 3,055,553.

Heidinger, Del J.: *See*—
Burmeister, Albert J., Brown, and Heidinger. 3,048,123.

Heidler, Glen R., to Burroughs Corp. Hinge structure. 3,048,806, 8–7–62, Cl. 339—4.

Heidler, Glen R., to Burroughs Corp. Electrical connector. 3,048,812, 8–7–62, Cl. 339—252.

Heidler, Glen R., to Burroughs Corp. Modularized electrical network assembly. 3,070,729, 12–25–62, Cl. 317—100.

Heidmann, Leon, to Forges et Ateliers de Constructions Electriques de Jeumont. Machine for rapid forming cartridge cases. 3,043,254, 7–10–62, Cl. 113—38.1.

Heidorn, Carlton F.: *See*—
Anderson, Elroy H., and Heidorn. 3,043,994.
Anderson, Elroy H., and Heidorn. 3,045,290.

Heidorn, John H., to General Motors Corp. Superheat control. 3,047,696, 7–31–62, Cl. 200—140.

Heidorn, John H., to General Motors Corp. Refrigerating apparatus with compressor output modulating means. 3,062,020, 11–6–62, Cl. 62—196.

Heidorn, John H., to General Motors Corp. Control for refrigerating apparatus. 3,064,447, 11–20–62, Cl. 62—197.

Heidt, William A., and D. C. Roller, to International Business Machines Corp. Attachment for typewriter ribbon. 3,022,879, 2–27–62, Cl. 197—172.

Heifetz, Marvin: *See*—
Darsie, Burns, and Heifetz. 3,043,198.

Heightman, Anthony N., and W. T. Underhill, to Marconi's Wireless Telegraph Co. Ltd. Voltage regulating circuit arrangements. 3,034,037, 5–8–62, Cl. 323—66.

Heigl, Carl H., and V. A. Zugel, to Harris-Intertype Corp. Signature stitcher including signature centering means. 3,030,624, 4–24–62, Cl. 1—7.

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McCleary, Eugene J., Jr., and Heigl. 3,018,715.

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Heijn, Herman J.: *See*—
Duinker, Simon, and Heijn. 3,019,977.

Heijn, Herman J., J. F. Klinkhamer, J. A. Samwel, and H. A. R. De Miranda, to North American Philips Co., Inc. System for controlling a plurality of writing head. 3,020,117, 2–6–62, Cl. 346—74.

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Heijnis, James W. I., to American Enka Corp. Melting grid. 3,041,648, 7–3–62, Cl. 257—304.

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Heil Co., The: *See*—
Cissna, David H., and Cole. 3,048,284.
Cole, Clayton K. 3,056,516.
Meyer, Arnold F. 3,043,599.
Urban, George E. 3,049,256.

Heil, Edward K., to North & Judd Mfg. Co. Fastener setting machine. 3,069,688, 12–25–62, Cl. 1—325.

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Heil, Oskar: *See*—
Haegele, Rowland W., Heil, and Turnblom. 3,043,985.

Heiland, Carl A., to Minneapolis-Honeywell Regulator Co. Recording system. 3,064,260, 11–13–62, Cl. 346—109.

Heilbrun, David G. Practice bowling alley. 3,051,485, 8–28–62, Cl. 273—54.

Heilig, Georg T.: *See*—
Heuenberger, Karl-Heinz, and Heilig. 3,034,776.

Heilig, Morton L. Sensorama simulator. 3,050,870, 8–28–62, Cl. 35—1.

Heiling, Heinzfelix M., to Langbein-Pfankauser Werke A.G. Composition for the electrolytic deposition of well levelled and ductile nickel coatings of mirror-like luster. 3,054,733, 9–18–62, Cl. 204—49.

Heilman, George R.: *See*—
Matheny, Wade M., Jr., and Heilman. 3,034,588.

Heilman, James M.: *See*—
Abseck, Strutt, and Rehfeld. 3,030,923.

Heilman, Kenneth A., to E. I. du Pont de Nemours and Co. Coating apparatus. 3,025,828, 3–20–62, Cl. 118—63.

Heilman, Raymond B., to Heinemann Electric Co. Induction blowout for circuit breakers. 3,016,438, 1–9–62, Cl. 200—

Heilman, William J.: *See*—
Tress, John J., and Heilman. 3,050,476.

Heilman, William O.: *See*—
Skarstrom, Charles W., and Heilman. 3,069,830.

Heilmann, Gerhard, to Deutsche Gold-und Silber-Scheideanstalt vormals Roessler. Process for electrolytic deposition of gold-copper-cadmium alloys. 3,056,733, 10–2–62, Cl. 204—44.
Heilmann, Heinz: *See*—
Ludemann, Joseph, and Heilmann. 3,056,896.
Heilmann, Walter E.: *See*—
Wilcken, Hugo. 3,047,923.
Wilcken, Hugo. 3,047,924.
Wilcken, Hugo. 3,052,922.
Heilpern, Walter. Method and means for the compensation of reactive currents due to stray capacitances between the capacitor columns of a cascade rectifier. 3,036,259, 5–22–62, Cl. 321—15.
Heim, Lewis R., to Universal Bearing Corp. Bearing air-cleaning apparatus. 3,027,590, 4–3–62, Cl. 15—304.
Heim, Lewis R., to Universal Bearing Corp. Method of making bearings. 3,049,789, 8–21–62, Cl. 29—148.4.
Heim, Richard. Grooved guide roller for textile machines. 3,048,054, 8–7–62, Cl. 74—567.
Heiman, Warren J. Gun barrel with a layer of radioactive material. 3,034,244, 5–15–62, Cl. 42—76.
Heimann-Trosien, Klaus: *See*—
Fernholz, Hans, Heimann-Trosien, and Schmidt. 3,062,-863.
Fernholz, Hans, Ruths, and Heimann-Trosien. 3,022,342.
Heimann, Willi, to G. M. Pfaff, A.G. Method and means for making buttonholes in series formation. 3,048,135, 8–7–62, Cl. 112—155.
Heimaster, John W., and J. R. Miller, to Union Carbide Corp. Earth strata-hardness responsive means. 3,056,952, 10–2–62, Cl. 340—261.
Heimberg, Eli, to Cameo Curtains Inc. Optionally applicable lining for draperies. 3,047,060, 7–31–62, Cl. 160—330.
Heimer, Alf F. Window arrangements, particularly for engine driven vehicles. 3,038,756, 6–12–62, Cl. 296—44.
Heimerdinger, Richard E.: *See*—
Zackay, Victor F., and Heimerdinger. 3,068,094.
Heimrich, Martin C., Carrier. 3,041,030, 6–26–62, Cl. 248—129.
Hein, Allyn J., J. A. Junck, and F. H. Winters, to Caterpillar Tractor Co. Hydraulic circuit for actuation of an earth-moving scraper bowl. 3,068,596, 12–18–62, Cl. 37—129.
Hein, Charles E., to Morse Chain Co. Flexible coupling. 3,036,445, 5–29–62, Cl. 64—11.
Hein, Delton W.: *See*—
Hardy, William B., Furman, and Hein. 3,049,561.
Hein, George N., to Becton, Dickinson and Co. Syringe assembly and attachment. 3,045,673, 7–24–62, Cl. 128—218.
Hein, Kurt and W. C., to Eureka Specialty Printing Co. Stage pad and label rejector. 3,026,236, 3–20–62, Cl. 156—355.
Hein, Lehmann, & Co. Aktiengesellschaft: *See*—
Puffe, Werner, and Georgi. 3,057,587.
Schmidt, Heinrich. 3,050,089.
Siepe, Werner. 3,050,190.
Hein, Lester W. Display and dispensing cabinet. 3,044,841, 7–17–62, Cl. 312—138.
Hein, Martin B.: *See*—
Hein, Simon J. and M. B. 3,023,630.
Hein, Rowland F., to E. I. du Pont de Nemours and Co. Process for recovering bromine adsorbed on anion-exchange resins. 3,037,845, 6–5–62, Cl. 23—154.
Hein, Simon J. and M. B. Post hole digging attachment for portable electric drills. 3,023,630, 3–6–62, Cl. 74—423.
Hein, Walter C.: *See*—
Hein, Kurt and W. C. 3,026,236.
Heine, Thomas H., and W. E. Wilson, to Westinghouse Electric Corp. Apparatus for basing lamps. 3,063,492, 11–13–62, Cl. 156—424.
Heine, Wolfgang F.: *See*—
Balvin, Joseph A., and Heine. 3,042,281.
Heine, Wolfgang F., and K. Meri, to Mohawk Business Machines Corp. Automatic volume control transistor circuit arrangement. 3,019,396, 1–30–62, Cl. 330—28.
Heineck, Arthur W., to International Business Machines Corp. Error check circuit. 3,056,108, 9–25–62, Cl. 340—146.
Heineck, Arthur W., Jr., and J. R. Wood, to International Business Machines Corp. Sensing instruction apparatus for data processing machine. 3,064,895, 11–20–62, Cl. 235—157.
Heinecke, Gustav W. System for supplying hot dry compressed air. 3,041,842 7–3–62 Cl. 62—93.
Heineken's Brouwerijen Nederland N.V.: *See*—
Dijkema, Leendert F. W. 3,041,147.
Heinemann, Bernard: *See*—
Schmitz, Henry, Hooper, Lein, and Heinemann. 3,060,-099.
Heinemann Electric Co.: *See*—
Heilman, Raymond B. 3,016,438.
Schwartz, Norman J. 3,016,435.
Schwartz, Norman J. 3,056,008.
Smith, Benjamin H. 3,017,475.
Heinemann, Gustave, to Pittsburgh Plate Glass Co. Control of submerged aquatic weeds. 3,060,010, 10–23–62, Cl. 71—2.1.
Heinemann, Heinz: *See*—
Donovan, Joseph J., Heinemann, and Milliken. 3,034,-932.
Heiniger, Daniel W., to Sears, Roebuck and Co. Portable, man-carried, power-driven tool. 3,042,434, 7–3–62, Cl. 287—58.
Heininger, Samuel A., and G. H. Birum, to Monsanto Chemical Co. Toxic arylsulfinyl haloalkanenitriles. 3,018,304, 1–23–62, Cl. 260—465.
Heininger, Samuel A., and G. H. Birum, to Monsanto Chemical Co. Thio-substituted haloalkaneamides. 3,022,344, 2–20–62, Cl. 260—558.
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Heininger, Samuel A., and G. H. Birum, to Monsanto Chemical Co. 3-(halophenylthio) alkenenitriles. 3,050,545, 8–21–62, Cl. 260—465.
Heininger, Samuel A., and G. H. Birum, to Monsanto Chemical Co. Arylsulfinyl haloalkane-nitrile pesticides. 3,063,-894, 11–13–62, Cl. 167—30.
Heininger, Samuel A., and G. H. Birum, to Monsanto Chemical Co. Alkyl 2-halo-3-(arylthio) propionates. 3,064,036, 11–13–62, Cl. 260—470.
Heininger, Samuel A., and G. H. Birum, to Monsanto Chemical Co. Pesticidal acrylonitrile reaction products. 3,065,127, 11–20–62, Cl. 167—22.
Heinke, Lowell L.: *See*—
Wheeler, Charles J. 3,059,607.
Heinl, Ernst: *See*—
Beierbach, Walter, and Heinl. 3,028,199.
Beierbach, Walter, and Heinl. 3,036,862.
Heinlein, Carl T., to Cosmocord Ltd. Piezoelectric stereo cartridge. 3,067,296, 12–4–62, Cl. 179—100.41.
Heinrich, Adeline: *See*—
Heinrich, Ernst H. 3,028,163.
Heinrich, August H., deceased, by A. Heinrich, executrix. Sealing systems for bearings, shafts, etc. 3,028,163, 4–3–62, Cl. 277—63.
Heinrich, Chester J., A. T. Kornylak, and M. Toscano, to United States of America, Navy. Ball transfer tables. 3,020,993, 2–13–62, Cl. 193—38.
Heinrich, Dipl. Ing. Friedrich, Ingenieurburo: *See*—
Wittlich, Norbert. 3,035,548.
Heinrich, Gunter to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of anhydrous hydrazine. 3,063,-806, 11–13–62, Cl. 23—190.
Heinrich, Helmut G., General Mills, Inc. Aerodynamic retardation device. 3,056,568, 10–2–62, Cl. 244—147.
Heinrich, Herbert: *See*—
Clements, John E., and Heinrich. 3,028,000.
Heinrich, Ludwig K., to The Celotex Corp. Apparatus for pairing. 3,045,301, 7–24–62, Cl. 118—239.
Heinrich, Ludwig K., to The Celotex Corp. Hydraulic pressure equalizing system. 3,040,533, 6–26–62, Cl. 60—54.5.
Heinrich, Ludwig K. Variable ratio speed reducer. 3,060,-766, 10–30–62 Cl. 74—740.
Heinrich, Raymond L.: *See*—
Anderson, James A., Jr., Heinrich, and Hoffmann. 3,068,-168.
Heinrich, Robert G., to Hamco Machine & Electronics Corp. Cutting apparatus. 3,039,235, 6–19–62, Cl. 51—73.
Heins, James F., and R. L. Gasperetti, to Westinghouse Electric Corp. Electrical control apparatus. 3,045,171, 7–17–62, Cl. 322—25.
Heinsman, William G., J. M. Roehm, and H. S. Wille, to Kawneer Co. Electric door operator. 3,039,764, 6–19–62, Cl. 268—53.
Heinlin, Henry G., and T. Kondell, to The Electric Storage Battery Co. Deferred action battery. 3,067,274, 12–4–62, Cl. 136—90.
Heintz, Edward A., to Union Carbide Corp. Bonding high temperature resistant materials with tungsten hexametaphosphate. 3,025,204, 3–13–62, Cl. 156—89.
Heintz, James C., Co., The: *See*—
Fassero, Anthony T., and Maddox. 3,059,274.
Heintz, Milton L., to General Electric Co. Arrangement for adusting the displacement of a piston. 3,024,731, 3–13–62, Cl. 103—37.
Heintz, Rene: *See*—
Delcroix, Jean, Hubert, and Heintz. 3,019,894.
Heintz, Rene, and J.-M. Jour, to Compagnie du Filage des Metaux et des Joints Curty. Method and apparatus for forming coatings of vitreous material on a heated metal billet. 3,044,893, 7–17–62, Cl. 117—18.
Heintz, William D., and G. W. Peters. Diagnostic articulator. 3,031,759, 5–1–62, Cl. 32—32.
Heintzmann, Eisenhutte, & Co.: *See*—
Heintzmann, Hans F. 3,050,004.
Heintzmann, Hans F., to Bochumer Eisenhutte Heintzmann & Co. Flanged trough sections for support structures. 3,022,100, 2–20–62, Cl. 287—103.
Heintzmann, Hans F., to Eisenhutte Heintzmann & Co. Valve gear for fluid pressure pumps. 3,050,004, 8–21–62, Cl. 103—37.
Heintzmann, Hans F., to Bochumer Gesellschaft fur Grubenausbau und Technik m.b.H. Force measuring device for determining the stresses upon the frameworks in underground excavations and the like. 3,058,341, 10–16–62, Cl. 73—141.
Heiny, Suzanne N., to The Dow Chemical Co. Preparation of acrylamide. 3,041,375, 6–26–62, Cl. 260—561.
Heinz, Alfred, to Western Electric Co., Inc. Electro-optical servo system for coarse and fine positioning of transistors. 3,029,348, 4–10–62, Cl. 250—221.

Heinz, Anton R., to Bayer Aktiengesellschaft, Farbenfabriken. Coagulation of latices of natural and synthetic rubbers. 3,053,824, 9–11–62, Cl. 260—92.3.

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Heinz, H. J., Co.: *See*—
Anderson, James B. 3,018,717.

Heinz, Walter E., and R. E. Dodd, to Shell Oil Co. Pelletizing metallic ore. 3,041,161, 6–26–62, Cl. 75—3.

Heinze, Kurt: *See*—
Hintze, Klaus, and Heinze. 3,021,773.

Heinze, Richard R., and R. L. Ostrozynski, to Olin Mathieson Chemical Corp. Chlorite-permanganate cellulosic bleaching process. 3,035,883, 5–22–62, Cl. 8—109.

Heinzl, Joseph A., to W. R. Weaver. Telescope sight mount for firearms. 3,040,433, 6–26–62, Cl. 33—50.

Heinzelman, Richard V., D. A. Lyttle, and W. C. Anthony, to The Upjohn Co. 5-hydroxy-α-alkyltryptophans. 3,026,-325, 3–20–62, Cl. 260—319.

Heinzen, Robert A.: *See*—
Everard, Joseph J., and Heinzen. 3,059,131.

Heinzer, Hans, to Schweizerische Industrie-Gesellschaft. Endless type conveyer. 3,057,456, 10–9–62, Cl. 198—129.

Heinzmann, Fred C.: *See*—
Crane, Hewitt D., Bennion, and Heinzmann. Re. 25,148.
Crane, Hewitt D., Bennion, and Heinzmann. 3,037,198.

Heise, Carl H. Road building machine. 3,070,358, 12–25–62, Cl. 259—159.

Heise, Kurt, to Smith-Corona Marchant Inc. Arrangements for transferring numerical values between typewriters and calculating machines. 3,053,444, 9–11–62, Cl. 235—60.12.

Heisel, Roy O. Apparatus for shaping crystals. 3,041,800, 7–3–62, Cl. 51—277.

Heiseler George W., to Boston Machine Works Co. Presser elements on cementing machine. 3,041,998, 7–3–62, Cl. 118—251.

Heisenberg, Erwin, E. Siggel, and R. Lotz, to Vereinigte Glanzstoff-Fabriken AG. Regeneration of terephthalic acid dimethyl ester from polyethylene terephthalate. 3,037,050, 5–29–62, Cl. 260—475.

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Heiser, Warren R., and E. L. Zibbell, to Ferro Stamping Co. Can opening device. 3,054,178, 9–18–62, Cl. 30—8.

Heiser, William H., to International Telephone and Telegraph Corp. Frequency-controlled switch. 3,029,310, 4–10–62, Cl. 179—15.

Heisig, Theodore C., and P. J. Keating, Jr., to Texaco, Inc. Roll oil containing a phosphorus acid ester and an oil-miscible dicarboxylic acid. 3,050,466, 8–21–62, Cl. 252—49.8.

Heisler, Harold, to Midwest Folding Products Mfg. Corp. Foldable stage. 3,021,575, 2–20–62, Cl. 20—1.123.

Heisler, Robert Y., and G. W. Eckert, to Texaco Inc. Motor fuel containing octane improver. 3,015,547, 1–2–62, Cl. 44—63.

Heisler, Robert Y., H. V. Hess, G. W. Eckert, and L. E. Ruidisch, to Texaco Inc. Preparation of esters from tertiary olefins. 3,055,934, 9–25–62, Cl. 260—497.

Heisler, Robert Y., and H. V. Hess, to Texaco Inc. Process for preparing pure isobutylene. 3,068,305, 12–11–62, Cl. 260—682.

Heiss, Frederick H.: *See*—
Baudhuin, Francis J., Heiss, Jensen, and Hager. 3,029,-847.

Heiss, Frederick H., K. C. Rolin, and F. J. Baudhuin, to Valspar Corp. Dispensing machine. 3,066,830, 12–4–62, Cl. 222—135.

Heiss, Hans: *See*—
Neugebauer, Wilhelm, Heiss, Uhlig, and Rebenstock. 3,028,804.

Heiss, John F.: *See*—
Davis, Robert G., Goldfarb, and Heiss. 3,025,139.

Heiss, John P., and H. W. Templeton, to Thompson Ramo Wooldridge Inc. Mounting for vehicle strut. 3,042,393, 7–3–62, Cl. 267—35.

Heitchue, Regis D., Sr.: *See*—
Hagg, Arthur C., and Heitchue. 3,058,705.

Heitshu, Daniel C., to Sperry Rand Corp. Conveyor. 3,059,-759, 10–23–62, Cl. 198—213.

Heitshu, Daniel C., to Sperry Rand Corp. Silo unloader. 3,065,033, 11–20–62, Cl. 302—56.

Heitz, Robert G.: *See*—
MacBeth, Gordon, and Heitz. 3,051,761.

Heitzer, Erich: *See*—
Rust, Kurt K. G., Gumboldt, Horndler, Sommer, and Heitzer. 3,058,970.

Heitzman, Edward J., to Geenral Motors Corp. Air cooled brake drum. 3,043,630, 7–10–62, Cl. 301—6.

Heizmotoren G.m.b.H., Firma: *See*—
Dürr, Walter, and Ansel. 3,033,276.

Hejnochowicz, Rudolf N., to Ralph Norris Ltd. Photographic film cassettes or containers. 3,043,534, 7–10–62, Cl. 242—71.1.

Helasti, Olavi. Method and apparatus for imparting enhanced stretchability to paper. 3,061,505, 10–30–62, Cl. 162—109.

Helbig, Jim D., to Gates Cyclo International, Inc. Poultry housing. 3,018,759, 1–30–62, Cl. 119—21.

Helbling, Anton E. Branding iron. 3,067,314, 12–4–62, Cl. 219—30.

Helbing, Clarence H., and J. H. Waggoner, to Pittsburgh Plate Glass Co. Sound deadener and absorber. 3,056,707, 10–2–62, Cl. 154—44.

Held, Edward C., Jr.: *See*—
George, David M., Rush, and Held. 3,066,481.

Held, Harold C., to Bell Telephone Laboratories, Inc. Automatic control in fabrication of printed wiring boards. 3,068,733, 12–18–62, Cl. 83—371.

Held, Max R., to Heberlein Patent Corp. Apparatus for producing crimped yarn. 3,041,814, 7–3–62, Cl. 57—34.

Helda, Robert W., W. L. Lehner, and N. L. Walker, to Sylvania Electric Products Inc. Component inserting apparatus. 3,015,881, 1–9–62, Cl. 29—203.

Helda, Robert W., and W. L. Lehner, to Sylvania Electric Products, Inc. Clamping device. 3,051,474, 8–28–62, Cl. 269—165.

Heldenbrand, Russell C.: *See*—
Cochran, Kenneth W., and Huckabay. 3,029,382.

Heldenbrand, Russell C. Tensile-magnetic inspection of drill pipe and the like. 3,029,381, 4–10–62, Cl. 324—37.

Helder, George K., and J. S. Mayo, to Bell Telephone Laboratories, Inc. Detection and measurement of errors in pulse code trains. 3,048,819, 8–7–62, Cl. 340—146.1.

Helderman, James F., to Olin Mathieson Chemical Corp. Stud driver attachment. 3,038,159, 6–12–62, Cl. 1—44.5.

Heldon Products, Inc.: *See*—
De Long, William A. 3,038,433.

Heldt, Walter Z., to E. I. du Pont de Nemours and Co. Cyanopentaisonitrile-iron (II) salts. 3,062,855, 116–62, Cl. 260—439.

Helena Rubinstein, Inc.: *See*—
Joss, Ira, Lederberg, and Silson. 3,033,213.

Helene Curtis Industries, Inc.: *See*—
Grant, Samuel. 3,030,274.

Helfaer, Bertram M.: *See*—
Papero, Patrick V., Jr., and Helfaer. 3,065,208.

Helferich, Burckhardt, R. Behnisch, and W. Wirth, to Bayer Aktiengesellschaft, Farbenfabriken. N-(4-sulfonamidophenyl)-butane sultame. 3,048,518, 8–7–62, Cl. 167—51.5.

Helfert, Hermann. Assembly of plant containers. 3,035,369, 5–22–62, Cl. 47—34.

Helfinstine, Robert F., to Minneapolis-Honeywell Regulator Co. Automatic control systems. 3,018,070, 1–23–62, Cl. 244—77.

Helgeson, Virgil L., and E. J. Loper, to General Motors Corp. Cross-wind compensation computer. 3,070,307, 12–25–62, Cl. 235—187.

Heli-Coil Corp.: *See*—
Brancato, Leo J. 3,018,684.
Brancato, Leo J. 3,031,004.
Brancato, Leo J. 3,040,423.
Steinmeyer, Gerhard. 3,052,972.

Helidow Corp.: *See*—
Hagen, Robert W. 3,033,006.

Heling, Wilhelm: *See*—
Fahrbach, Erich, and Heling. 3,069,304.
Fahrbach, Erich, Lauppe, Schabert, Heling, and Nottebohm. 3,069,305.

Helipara Gesellschaft mit Beschrankter Haftung Luftfahrzeugbau: *See*—
Brinkmann, Otto. 3,035,798.

Hell, Dr.-Ing. Rudolf, Kommanditgesellschaft: *See*—
Hell, Rudolf, and Koll. 3,034,105.
Hell, Rudolf, and Koll. 3,038,024.
Hell Rudolf, and Koll. 3,051,783.
Zeyen, Fritz-Otto. 3,026,039.

Hell, Hans: *See*—
Steinmetz, Helmut, Hell, and Koeppe. 3,066,642.

Hell, Hans, to Adox Kamerawerk G.m.b.H. Mounting arrangement for camera walls or the like. 3,066,588, 12–4–62, Cl. 95—11.

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Helland, Howard M., to Lockport Felt Co., Inc. Papermaker's wet felt. 3,039,496, 6–19–62, Cl. 139—383.

Hellberg, Harald: *See*—
Seemann, Walter P., and Hellberg. 3,030,190.

Hellems, Elmer J., and E. O'Dell. Safety valve for pulsating liquid pressure systems. 3,049,143, 8–14–62, Cl. 137—390.22.

Hellenberg, Clare E.: *See*—
Henke, Russell W., Brannon, Hellenberg, and Dadian. 3,057,161.
Heller, David L., to American Motor Co., Inc. Remote meter reading system. 3,054,095, 9–11–62, Cl. 340—184.
Heller, Franz, to American Type Founders Co, Inc. Printing plates and methods and apparatus for forming them. 3,022,728, 2–27–62, Cl. 101—415.1.
Heller, Franz, and A. Steyer, to American Type Founders Co. Inc. Plate cylinder mountings for printing presses. 3,065,690, 11–27–62, Cl. 101—142.
Heller, George E.: *See*—
Klumb, Harvey A., and Heller. 3,044,069.
Heller, George L., to Columbian Carbon Co. Process for effecting particulate dispersions. 3,032,430, 5–1–62, Cl. 106—307.
Heller, George L., A. C. Warner, and C. L. De Land, to Columbian Carbon Co. Carbon black manufacture. 3,046,096, 7–24–62, Cl. 23—209.4.
Heller, George L., and J. W. White, to Columbian Carbon Co. Method of compounding carbon black and rubber. 3,048,559, 8–7–62, Cl. 260—33.6.
Heller, Joseph I. Pocket tape recorders. 3,050,595, 8–21–62, Cl. 179—100.2.
Heller, Joseph J., ½ to M. Pfeferman. Dielectric recording and playback apparatus and method. 3,057,966, 10–9–62, Cl. 179—100.1.
Heller, Joseph N., to General Motors Corp. Air cleaner condition indicator. 3,033,030, 5–8–62, Cl. 73—118.
Heller, Kenneth G., and W. Snyder, to American Radiator & Standard Sanitary Corp. Null-balance indication system and variable transformer therefor. 3,017,588, 1–16–62, Cl. 336—135.
Heller, László, and G. Faragó, to Licencia Találmanyokat Ertekesitoe Vallalet. Apparatus for utilizing the heat which is obtained with the production of cold in refrigerating plants. 3,018,640, 1–30–62, Cl. 62—335.
Heller, Richard V., to Rotron Mfg. Co., Inc. Mounting means for fans and the like. 3,029,870, 4–17–62, Cl. 160—369.
Heller, Robert M., to Watts Electric & Mfg. Co. Connector structure. 3,059,214, 10–16–62, Cl. 339—184.
Heller, Robert M., and W. A. Stanley, to Watts Electric & Mfg. Co. Connector structure. 3,040,286, 6–19–62, Cl. 339—64.
Heller, Richard M.: *See*—
Ferry, Wilbur V., Helley, and Taylor. 3,070,721.
Hellige, Fritz, & Co., G.m.b.H.: *See*—
Kleine, Norbert, Matthes, and Mueller. 3,068,687.
Laeufer, Walter, and Streu. 3,031,250.
Schaeder, Johann A. 3,047,865.
Schaeder, Johann A., and Walther. 3,039,105.
Helligrath, Robert: *See*—
Loebler, Peter, Helligrath, Elsner, and Huttenlocher. 3,060,061.
Hellin, Michel, F. Coussemant, D. Lumbroso, J.-P. Servaud, and M. Alexandre, to Institut Francais du Petrole des Carburants et Lubrifiants. Method for producing isoprene and formaldehyde from 4,4-dimethylmetadioxane. 3,057,923, 10–9–62, Cl. 260—606.
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Hellin, Michel, F. Coussemant, D. Lumbroso, and J.-P. Servaud, to Institut Francais du Petrole des Carburants et Lubrifiants. Method for producing isoprene and formaldehyde from 4,4-dimethylmetadioxane. 3,060,240, 10–23–62, Cl. 260—606.
Helling, Raymond P., and G. R. Lay. Slush pump valves. 3,058,487, 10–16–62, Cl. 137—516.19.
Helling, Werner, and K. Lange. Continuous carbon electrode. 3,020,220, 2–6–62, Cl. 204—67.
Helling, Werner, and H. Lay, to Vereinigte Aluminum-Werke Aktiengesellschaft. Electrolytic apparatus and process for producing aluminum. 3,033,768, 5–8–62, Cl. 204—67.
Hellings, Geoffrey M., to General Precision, Inc. Television equipment, especially for ground aircraft trainers and the like. 3,040,123, 6–19–62, Cl. 178—6.
Hellkvist, Nils B.: *See*—
Holmberg, Arne F., Hellkvist, and Raub. 3,068,436.
Hellman, Werner F. Dart gun toy. 3,035,564, 5–22–62, Cl. 124—26.
Hellmann, Richard J.: *See*—
Starck, Clemens B., Smith, and Hellmann. 3,053,661.
Hellmig, Erhard, to Agfa Aktiengesellschaft. Photographic tone correction. 3,035,913, 5–22–62, Cl. 96—27.
Hellquist, Ivan A., to Svenska Aktiebolaget Gasaccumulator. Arrangement for controlling the supply of gas to a breathing device. 3,060,933, 10–30–62, Cl. 128—142.
Hellström, Börje T., and B. I. Lindblad, to TKB-Produkter Fabriksaktiebolag. Automatic reading device. 3,067,409, 12–4–62, Cl. 340—174.1.
Hellstrom, Edward C., and C. E. Pollard, Jr., to Bell Telephone Laboratories, Inc. Switching device. 3,048,677, 8–7–62, Cl. 200—87.
Hellstrom, Gosta L., to Electrolux Aktiebolaget. Multi-purpose suction nozzle. 3,040,367, 6–26–62, Cl. 15—37.
Hellwig, Donald J. Diaper rinsing device. 3,031,683, 5–1–62, Cl. 4—1.
Hellwig, Günter, to Babcock & Wilcox Ltd. Rotatable steam coil air heater. 3,048,152, 8–7–62, Cl. 122—1.
Helly-Hansen, Leiv. Apparatus for the production of flexible tubes or hoses having helically extending reinforcing element. 3,019,154, 1–30–62, Cl. 156—429.
Helm Accessories, Inc.: *See*—
Larson, Gustav. Re. 25,182.
Helm, Charles W., Jr., and F. L. Moore, to The Gray Mfg. Co. Sound translating apparatus. 3,024,322, 3–6–62, Cl. 179—100.4.
Helm, Edward J.: *See*—
Van Ackeren, Joseph, and Helm. 3,042,590.
Helm, Jack D., and F. L. Hopkins, to Bemis Bro. Bag Co. Automatic bag feeding machine. 3,050,918, 8–28–62, Cl. 53—386.
Helm, Jack D., and F. L. Hopkins, to Bemis Bro. Bag Co. Bag magazine. 3,051,297, 8–28–62, Cl. 198—165.
Helm, Mark W., to The Hoover Co. Combined polisher and shampooer. 3,028,615, 4–10–62, Cl. 15—50.
Helm, Mark W., to The Hoover Co. Detergent dispensing wheel support for shampoo appliances. 3,040,350, 6–26–62, Cl. 15—50.
Helmer, Norman D., to Stoner Rubber Co., Inc. Spray nozzle. 3,027,098, 3–27–62, Cl. 239—602.
Helmers, Carl J., to Phillips Petroleum Co. Ignition and production of carbonaceous strata. 3,048,223, 8–7–62, Cl. 166—11.
Helmers, Edward N., to E. I. du Pont de Nemours and Co. Air supported structure. 3,035,590, 5–22–62, Cl. 135—1.
Helmerson, Bengt A.: *See*—
Helmerson, Knut H. and B. A. 3,026,652.
Helmerson, Knut H., to Casius Corp. Ltd. Apparatus for manufacturing reinforcing elements for concrete building elements. 3,027,558, 4–3–62, Cl. 1—1.
Helmerson, Knut H. and B. A., to Casius Corp. Ltd. Reinforced light-weight concrete slabs. 3,026,652, 3–27–62, Cl. 52—78.
Helmes, Christiaan T., to Helmes' Machinefabriek. Apparatus for bringing two moving indicia marks into register with each other. 3,027,462, 3–27–62, Cl. 250—219.
Helmes' Machinefabriek: *See*—
Helmes, Christiaan T. 3,027,462.
Helmick, Donald E. Form clamping device. 3,057,034, 10–9–62, Cl. 25—131.
Helmick, Fred E.: *See*—
Fahrenbach, Wolfgang B., and Helmick. 3,015,256.
Helmig, Willem H. Th.: *See*—
Reuwerman, Theodorus, and Helmig. 3,035,769.
Helming, Bernd H., to Polysius G.m.b.H., Firma. Apparatus for heating cement powder or similar fine-granular materials. 3,049,343, 8–14–62, Cl. 263—32.
Helmke, Kermit W., and W. A. Klos. Convertible airplane locks. 3,017,137, 1–16–62, Cl. 244—2.
Helmreich, Robert F.: *See*—
Henson, Walter A., Helmreich, and Johnson. 3,061,559.
Helms, Charles C.: *See*—
Atwood, John G., and Helms. 3,026,712.
Helms, Millard O.: *See*—
Miller, John H., and Helms. 3,068,518.
Helms, Paul E. Screw holder and driver. 3,056,441, 10–2–62, Cl. 145—52.
Helmschrott, Norbert: *See*—
Vogtlin, Karl, and Helmschrott. 3,044,307.
Helpa, Hanns, to H. L. Naimer. Method of manufacturing nuts and mold for use in manufacturing the nut. 3,054,145, 9–18–62, Cl. 18—42.
Helper, Nathan F.: *See*—
Smith, Walton R., and Helper. 3,056,536.
Helsdon, Peter B., to Marconi's Wireless Telegraph Co. Ltd. Saw tooth wave generators. 3,028,508, 4–3–62, Cl. 307—88.5.
Helsel, Joseph C., Sr. Fair lead roller assembly. 3,063,680, 11–13–62, Cl. 254—190.
Helsel, Reuben H., and R. I. N. Weingart, to General Register Corp. Ticket issuing machine. 3,034,714, 5–15–62, Cl. 235—91.
Helsten, Wesley A., to Amsted Industries Inc. Handbrake linkage for rotor brake. 3,048,240, 8–7–62, Cl. 188—46.
Helsten, Wesley A., to Amsted Industries Inc. Single shoe tread brake arrangement. 3,059,729, 10–23–62, Cl. 188—46.
Helstrom, Carl W.: *See*—
Altar, William, and Helstrom. 3,048,813.
Helterline, Leo L., Jr.: *See*—
Muchnick, Paul, Tanner, Silver, and Helterline. 3,042,848.
Helton, Eugene L., and W. R. Thomas, to Caterpillar Tractor Co. Bulldozer for heavy duty and ripping operations. 3,038,267, 6–12–62, Cl. 37—145.
Heltzel, Carl J., E. A. Gardner, and W. J. Kirchner, to The Heltzel Steel Form and Iron Co. Portable batching plant. 3,049,248, 8–14–62, Cl. 214—17.
Heltzel, Robert E. Slide lock for concrete road forms. 3,034,613, 5–15–62, Cl. 189—36.
Heltzel, Robert E. Mobile batching plant. 3,064,832, 11–20–62, Cl. 214—17.
Heltzel Steel Form and Iron Co., The: *See*—
Heltzel, Carl J., Gardner, and Kirchner. 3,049,248.

Helvenston, Edward P., and T. T. Broun, Jr., to Pittsburgh Plate Glass Co. Method of rocket propulsion using liquid ammonia and ammonium perchlorate. 3,024,595, 3–13–62, Cl. 60—35.4.

Helvern, James O., to General Motors Corp. Brake anchor pin. 3,016,112, 1–9–62, Cl. 183—78.

Helvern, James O., and C. R. Wueliner, to General Motors Corp. Brake booster unit. 3,068,843, 12–18–62, Cl. 121—46.5.

Helversen, Frederick D., O. F. Chaplin, and C. W. Tellier, Jr., to Crown Zellerbach Corp. Method and apparatus for dewatering pulp and the resulting product. 3,021,254, 2–13–62, Cl. 162—100.

Helwer, Claud E., 20% to W. Coffee. Irrigation valve. 3,043,329, 7–10–62, Cl. 137—321.

Helwig, Carl. Drive shaft bearing and seal. 3,025,113, 3–13–62, Cl. 308—36.1.

Helwig, Carl. Crankcase ventilator for automotive vehicles. 3,051,151, 8–28–62, Cl. 123—119.

Helwig, Ralph W.: *See*—
Hay, Russell G., and Helwig. 3,033,906.

Helwig, Walter O. Electric brushes for electric motors and generators. 3,017,529, 1–16–62, Cl. 310—248.

Helwig, Werner C.: *See*—
Chu, Gordon P. K., and Helwig. 3,055,779.

Helwig, William J., to Radio Corp. of America. Apparatus for and method of processing articles or materials in a continuous flow operation. 3,057,130, 10–9–62, Cl. 53—86.

Hemathermatrol Corp.: *See*—
Watson, Robert L. 3,064,649.

Hembd, Alfred E. and P. E. Advertising display assemblies. 3,015,177, 1–2–62, Cl. 40—10.

Hembd, Paul E.: *See*—
Hembd, Alfred E. and P. E. 3,015,177.

Hemel, Albert: *See*—
Leonard, Edward J., Hemel, Tarschisch, Karow, Gibson, and Liston. 3,036,160.

Hemeon, Wesley C. L. Method and apparatus for incinerating combustible wastes. 3,068,812, 12–18–62, Cl. 110—8.

Hemingway, Charles E. Stock feed for screw machine. 3,027,018, 3–27–62, Cl. 214—1.5.

Hemmerich, Peter: *See*—
Erlenmeyer, Hans, Fallab, and Hemmerich. 3,048,578.

Hemmeter, George R., to General Electric Co. Process for treating steel. 3,042,556, 7–3–62, Cl. 148—111.

Hemmi, Hans M.: *See*—
Hofer, Kurt, Hemmi, Peter, and Lutz. 3,033,640.

Hemmi, Hans M., and A. Peter, to Sandoz Ltd. Process for the fast dyeing of natural and artificial polyamide fibers with water-soluble metal-containing azo dyestuffs. 3,043,-648, 7–10–62, Cl. 8—42.

Hemminger, Charles E., and E. R. Gilliland, to Esso Research and Engineering Co. Iron ore reduction with coke. 3,046,-106, 7–24–62. Cl. 75—36.

Hemminger, Rodney L.: *See*—
Warnock, William R., Lindlof, and Hemminger. 3,055,-435.

Hempel, Herbert W., to Marsh Stencil Machine Co. Stencil machine table alignment construction. 3,024,725, 3–13–62, Cl. 101—407.

Hempel, Roy A., to Robotomics Enterprises, Inc. Electronic counter. 3,038,658, 6–12–62, Cl. 235—92.

Hempel, William C.: *See*—
Solum, James R., and Hempel. 3,070,168.

Hemphill, Alfred A., and J. M. Tewksbury, to The Bendix Corp. Quadrantal error correcting means for a magnetic antenna. 3,034,122, 5–8–62, Cl. 343—788.

Hemphill, Alfred A., and J. M. Tewksbury, to The Bendix Corp. Transistor converter circuit utilizing direct coupled series transistors. 3,040,269, 6–19–62, Cl. 331—113.

Hemphill Co.: *See*—
St Pierre, Paul L. and E., and Wawzonek. 3,036,449.

Hemphill, Frederick J.: *See*—
Broadbent, Bernard G., and Hemphill. 3,019,558.

Hempstead, James W.: *See*—
Nicholas, Donald C., and Hempstead. 3,046,599.

Hems, Benjamin A.: *See*—
Evans, Ronald M., Elks, Hems, Arthur, Oughton, Gregory, Walker, and Hunt. 3,040,034.

Hemstreet, Harold S., to General Precision, Inc. Perspective alteration means. 3,015,988, 1–9–62, Cl. 88—57.

Hemstreet, Harold S., to General Precision Inc. Analog computer apparatus. 3,018,051, 1–23–62, Cl. 235—193.

Hemstreet, Harold S., to General Precision Inc. Hydraulic safety device for a force simulator. 3,033,174, 5–8–62, Cl. 121—47.

Hemstreet, Harold S., to General Precision, Inc. System for simulating the effects of auto-pilot inputs to the control column of an aircraft. 3,063,160, 11–13–62, Cl. 35—12.

Hemstreet, Harold S., and A. Montgomery, to General Precision Inc. Safety device for a control loading mechanism. 3,067,725, 12–11–62, Cl. 121—38.

Hemwall, John B., to The Dow Chemical Co. Method of enhancing plant growth employing aurintricarboxylic acid and salts thereof. 3,019,098, 1–30–62, Cl. 71—1.

Hemwall, John B., to The Dow Chemical Co. Enhancing the phosphorus uptake from plant growth by use of phosphonic acid. 3,029,140, 4–10–62, Cl. 71—33.

Henatsch, Reynold. Replaceable heel structure. 3,064,367, 11–20–62, Cl. 36—36.

Henatsch, Reynold. Sidewalk canopy. 3,067,813, 12–11–62, Cl. 160—32.

Henbest, Harold B. Process for acyloxylating-20-keto steroids. 3,069,438, 12–18–62, Cl. 260—397.45.

Henchert, John, to Continental Can Co., Inc. Method of making a tear strip can body. 3,021,805, 2–20–62, Cl. 113—120.

Henches, Eugene W.: *See*—
Garrison, Richard J., Henches, and Spiro. 3,020,525.

Hencke, William R., C. F. McBurnett, and L. F. Badgett, to Texaco Inc. Method of preparing lithium soap greases. 3,015,624, 1–2–62, Cl. 252—41.

Hencken, Harold G.: *See*—
Gillick, Thomas J., Jr., Hencken, and Wrotnowski. 3,050,193.
Gillick, Thomas J., Jr., Wrotnowski, and Hencken. 3,050,191.

Hendee, Charles F.: *See*—
Fine, Samuel, and Hendee. 3,034,055.

Hendel, Carl E., G. K. Notter, and R. M. Reeve, to United States of America, Agriculture. Preparation of dehydrated potatoes. 3,031,314, 4–24–62, Cl. 99—207.

Hendel, Carl E., R. M. Reeve, and G. K. Notter, to United States of America, Agriculture. Control of characteristics of dehydrated mashed potatoes. 3,054,683, 9–18–62, Cl. 99—207.

Hendershot, Charles E.: *See*—
Barnett, Eugene R., and Hendershot. 3,026,859.

Hendershot, William F.: *See*—
Benjamin, Chester R., Hendershot, and Hesseltine. 3,063,909.

Hendershott, William B., to United States of America, Navy. Aerial target. 3,030,111, 4–17–62, Cl. 273—105.3.

Henderson, Charles B., and J. M. Burton, to Atlantic Research Corp. Ignition aid. 3,041,835, 7–3–62, Cl. 60—39.47.

Henderson, Courtland M.: *See*—
Hedley, William H., Roehrs, and Henderson. 3,041,136.

Henderson, Courtland M., to Monsanto Chemical Co. Spark plug. 3,061,756, 10–30–62, Cl. 313—145.

Henderson, Earnest R.: *See*—
Burkholder, Ward J., and Henderson. 3,054,786.

Henderson, Edward. Hypodermic needle. 3,064,651, 11–20–62, Cl. 128—221.

Henderson, Fergus C. Draught excluding devices for doors or the like. 3,054,154, 9–18–62, Cl. 20—67.

Henderson, Floyd E., to Allis-Chalmers Mfg. Co. Transposition insulator for electrical coils. 3,054,845, 9–18–62, Cl. 174—34.

Henderson, Frank D., to Bristol Siddeley Engines Ltd. Speed responsive devices. 3,050,996, 8–28–62, Cl. 73—182.

Henderson, Harold P. Method of manufacturing door knobs. 3,026,576, 3–27–62, Cl. 18—59.

Henderson, Home I. Method and apparatus for core orientation. 3,058,054, 10–9–62, Cl. 324—14.

Henderson, James H., and M. R. J. Wyllie, to Gulf Research & Development Co. Single well vertical drive in-situ combustion process. 3,018,827, 1–30–62, Cl. 166—39.

Henderson, John A., to Baltimore Biological Laboratory, Inc. Hermetically sealed petri dish. 3,055,808, 9–25–62, Cl. 195—139.

Henderson, Joseph E., L. R. Hafstad, and R. B. Roberts, to United States of America, Navy. Light sensitive proximity fuse. 3,064,578, 11–20–62, Cl. 102—70.2.

Henderson, Knox B., and J. Brown, to National Tank Co. Metering oil and gas separators. 3,040,572, 6–26–62, Cl. 73—200.

Henderson, Lloyd F., and F. E. Carroll, to Lever Bros. Co. Light duty liquid detergent. 3,029,205, 4–10–62, Cl. 252—161.

Henderson, Richard: *See*—
McKillip, Richard H., and Henderson. 3,052,553.

Henderson, Richard L.: *See*—
Brosene, William G., Jr. 3,032,095.

Henderson, Robert B., and J. R. Drake. Back plate for self-contained underwater breathing apparatus. 3,033,431, 5–8–62, Cl. 224—5.

Henderson, Robert D.: *See*—
Brosene, William G., Jr., and Henderson. 3,032,095.

Henderson, Robert J.: *See*—
Council, Dansby A., and Henderson. 3,068,660.

Henderson, Robert M., and R. Zechlin, to Fairbanks, Morse & Co. Voltage regulators for generators. 3,056,913, 10–2–62, Cl. 322—28.

Henderson, Robert R., to Burroughs Corp. Typewriter mechanism. 3,035,677, 5–22–62, Cl. 197—16.

Henderson, Stanford A., to Gomco Surgical Mfg. Corp. Valve and pump assembly for closing and irrigating fluid drainage tube in suction apparatus. 3,044,466, 7–17–62, Cl. 128—276.

Henderson, Wayne K.: *See*—
Cable, Robert E., Goode, Henderson, and Montillon. 3,041,266.

Henderson, Wayne L. R.: *See*—
Harton, Lynn M., and Henderson. 3,053,945.

Henderson, William A., Jr., to American Cyanamid Co. Process for preparing pentamethylcyclopentaphosphine. 3,029,289, 4–10–62, Cl. 260—606.5.

Henderson, William A., Jr., S. A. Buckler, and M. Epstein, to American Cyanamid Co. Substituted cyclotetraphosphines. 3,032,591, 5–1–62, Cl. 260—606.5.

Henderson, William D. Dispensing system. 3,033,421, 5–8–62, Cl. 222—26.

Hendon, Lofton M. Fishing rod holder. 3,036,800, 5–29–62, Cl. 248—41.
Hendrichsen, Knut, to North American Aviation, Inc. Temperature compensated spring-biased linear hydraulic device. 3,051,194, 8–28–62, Cl. 137—468.
Hendrick, Hobart J., and F. C. Benson, to The H. B. Ives Co. Door closers. 3,036,329, 5–29–62, Cl. 16—80.
Hendrick, Roger H.: *See*—
McLean, John O., Fritzlen, and Hendrick. 3,051,536.
Hendricks, George D., to The Gamewell Co. Traffic cycle length selector. 3,047,838, 7–31–62, Cl. 340—31.
Hendricks, George D., to The Gamewell Co. Infrared detectors. 3,056,106, 9–25–62, Cl. 340—31.
Hendricks, James C.: *See*—
Wernham, Spencer C., and Hendricks. 3,058,256.
Hendricks, John E.: *See*—
Gumpertz, Donald G., and Hendricks. 3,041,600.
Hendricks, Robert W., to E. I. du Pont de Nemours and Co. Process of preparing shaped articles of acrylonitrile polymer containing free metal particles. 3,015,858, 1–9–62, Cl. 18—57.
Hendricks, Robert W., to E. I. du Pont de Nemours and Co. Process of preparing shaped articles of acrylonitrile polymer containing silver insoluble particles. 3,056,169, 10–2–62, Cl. 18—57.
Hendricks, Robert W., to E. I. du Pont de Nemours and Co. Polymeric film and process of preparation. 3,056,676, 10–2–62, Cl. 96—87.
Hendriks, Robert W., to E. I. du Pont de Nemours and Co. Process for metallizing polyacrylonitrile shaped article by treating with a water soluble metal salt and reducing the salt to the free metal. 3,058,845, 10–16–62, Cl. 117—138.5.
Hendricks, Robert W., and K. R. Osborn, to E. I. du Pont de Nemours and Co. Process for preparing polymeric structures. 3,056,170, 10–2–62, Cl. 18—57.
Hendricksen, Warren, and H. H. Needham, deceased (by M. Needham, executrix), to A. O. Smith Corp. Multi-layer vessel having a gamma ray flux absorbing layer. 3,016,462, 1–9–62, Cl. 250—108.
Hendrickson, Arnold P.: *See*—
Cray, Seymour R., and Hendrickson. 3,041,466.
Hendrickson, Donald E.: *See*—
Schwartz, Daniel M., and Hendrickson. 3,055,489.
Schwartz, Daniel M., Hendrickson, and Brown. 3,040,-918.
Hendrickson, Donald E., J. D. Brown, D. M. Schwartz, and E. J. Utz, to The Elmco Corp. Material handling machine. 3,030,713, 4–24–62, Cl. 37—117.5.
Hendrickson, Everett W.: *See*—
Kayko, Charles J., and Hendrickson. 3,065,436.
Hendrickson, John J., to Hendrickson Machine Co. Baffle plate. 3,045,981, 7–24–62, Cl. 257—236.
Hendrickson Machine Co.: *See*—
Hendrickson, John J. 3,045,981.
Hendrickson, Melvin C.: *See*—
Eilers, Carl G., Hendrickson, and Herrmann. 3,023,270.
Hendrickson, Roy H., to Rochester Button Co. Button loading mechanism for sewing machines. 3,042,254, 7–3–62, Cl. 221—173.
Hendrickson, Severin B., and P. J. Radigan, to Heywood-Wakefield Co. Molded plastic article. 3,055,783, 9–25–62, Cl. 154—43.
Hendrie, George S., to Detroit Macoid Corp. Sewing welt. 3,028,641, 4–10–62, Cl. 20—74.
Hendriks, Hendrik: *See*—
Schuhmacher, Jacobus P., and Hendriks. 3,048,575.
Hendriks, Wilhelm F. M.: *See*—
Van der Brugghen, Joan, and Hendriks. 3,017,783.
Van der Brugghen, Joan, and Hendriks. 3,017,785.
Hendrix, Dewey. Center locating device. 3,025,608, 3–20–62, Cl. 33—191.
Hendrix, Dewey. Center locating and scribing device. 3,025,609, 3–20–62, Cl. 33—191.
Hendrix, Hurshel V.: *See*—
Bottenberg, Kenneth C., and Hendrix. 3,027,901.
Hendrix, Walter H., to E. I. du Pont de Nemours and Co. Filament handling process and apparatus. 3,055,786, 9–25–62, Cl. 156—158.
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Hendry, Adolph R.: *See*—
Talbott, Irl W., and Hendry. 3,063,700.
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Hendry, James A.: *See*—
Rose, Francis L., and Hendry. 3,049,542.
Hendry, James M.: *See*—
Pusch, Walter G., Hendry, and Hulsizer. 3,050,106.
Hendry, Janet D.: *See*—
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Henecka, Hans: *See*—
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Hengel, Robert J. Orienting and feeding device. 3,015,413, 1–2–62, Cl. 221—9.
Hengeller, Carlo: *See*—
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Hengen, Otto: *See*—
Siemer, Harm, and Hengen. 3,018,222.
Henika, Richard G., and N. E. Rodgers. Process for making yeast leavened bakery products and composition therefor. 3,053,662, 9–11–62, Cl. 99—90.
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Blaser, Bruno, Raecke, and Schirp. 3,043,846.
Blaser, Bruno, Schirp, and Stein. 3,064,041.
Blaser, Bruno, Stein, and Schirp. 3,023,216.
Blaser, Bruno, and Worms. 3,042,487.
Blaser, Bruno, and Worms. 3,061,406.
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Budnowski, Manfred, Lieske, and Dohr. 3,065,186.
Dohr, Manfred, Wulff, and Werdelmann. 3,024,197.
Habernickel, Valentin. 3,035,897.
Habernickel, Valentin, and Weldes. 3,024,085.
Pietsch, Helmut, Keller, and Stein. 3,052,647.
Raecke, Bernhard. 3,055,880.
Schenk, Walter. 3,042,717.
Schutt, Hartwig. 3,023,210.
Schutt, Hartwig, and Stein. 3,023,234.
Sinner, Herbert, and Fries. 3,058,916.
Stein, Werner, and Hennig. 3,031,482.
Stein, Werner, Schirp, and Schütt. 3,023,217.
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Weinschenk, Albert. 3,025,541.
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Henkels, Herbert W.: *See*—
Strull, Gene, and Henkels. 3,054,912.
Henker, Heinz: *See*—
Siebertz, Karl, Henker, and Dorendorf. 3,035,183.
Henker, Walter: *See*—
Bär, Ernst, and Henker. 3,057,022.
Henle, Robert A.: *See*—
Logue, Joseph C., and Henle. 3,037,127.
Henle, Robert A., to International Business Machines Corp. Logical circuits using junction transistors. 3,031,584, 4–24–62, Cl. 307—88.5.
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Achterhof, Marvin, Henley, and Schriner. 3,026,271.
Henley, Virgil E.: *See*—
McMahon, Thomas J., and Henley. 3,017,919.
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Schumacher, Joseph N., Henley, Bernasek, and Teague. 3,050,432.
Henley, Walter M., to R. J. Reynolds Tobacco Co. Smoking article. 3,041,211, 6–26–62, Cl. 131—17.
Henn, Fritz: *See*—
Endres, Gunther, Soehring, and Henn. 3,038,835.
Henn, Richard H.: *See*—
Barr, Charles R., Henn, and Salminen. 3,043,694.
Henn, Richard W., and C. A. Goffe, to Eastman Kodak Co. High-contrast photographic silver chloride emulsions and method of processing. 3,030,209, 4–17–62, Cl. 96—45.
Henne, Albert L., to E. I. du Pont de Nemours and Co. Process for replacing vinylic halogens with fluorine. 3,024,-290, 3–6–62, Cl. 260—648.
Henne, George B., & Co., Inc.: *See*—
Windmassinger, George. 3,027,745.
Henne, Hans. 50% to Leonard M. Cohn. Process for making steel. 3,034,887, 5–15–62, Cl. 75—60.
Henneberger, Leo. Ventilators. 3,062,125, 11–6–62, Cl. 98—37.
Hennells, William E. Safety check and exhaust valve. 3,034,-527, 5–15–62, Cl. 137—102.
Hennemann, Georg, and A. G. Lutgerhorst, to American Enka Corp. Cellulosic sponge manufacture. 3,018,192, 1–23–62, Cl. 117—98.
Hennenberger, Karl-Heinz, and G. T. Heilig, to Lurgi Gesellschaft fur Chemie und Huttenwesen mit beschrankter Haftung. Rotary furnace. 3,034,776, 5–15–62, Cl. 263—33.

Hennessey, Russell J., to Waldorf Paper Products Co. Combined carton and article holder. 3,029,934, 4–17–62, Cl. 206—47.
Hennessey, Russell J., to Waldorf Paper Products Co. Can containing carton. 3,049,278, 8–14–62, Cl. 229—16.
Hennessey, Russell J., to Waldorf Paper Products Co. Multi-article carton. 3,054,505, 9–18–62, Cl. 206—47.
Hennessey, Walter F., Jr., to The Bendix Corp. Electrical connector. 3,025,487, 3–13–62, Cl. 339—45.
Hennessey, William M., to Burroughs Corp. Article-feeding apparatus. 3,051,291, 8–28–62, Cl. 198—30.
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Hennessy, Carroll A., to Lamson Corp. Carrier for pneumatic tube systems. 3,054,576, 9–18–62, Cl. 243—39.
Hennessy, James J., to Hennessy Lubricator Co., Inc. Railway axle box oil and dust seal. 3,059,938, 10–23–62, Cl. 277—130.
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Hennessy, James J. 3,059,938.
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Hennig, Fritz O., to Dresser Industries, Inc. Combustor with unitary liner. 3,044,263, 7–17–62, Cl. 60—39.32.
Hennig, Harvey: *See*—
Lindahl, Harold A., and Hennig. 3,025,321.
Hennig, Harvey, to The Pure Oil Co. Catalytic cracking process with the production of high octane gasoline. 3,065,166, 11–20–62, Cl. 208—67.
Hennig, Horst: *See*—
Stein, Werner, and Hennig. 3,031,482.
Hennig, Horst, to M. Grundig. Television system for inspecting the inner walls of enclosed spaces. 3,041,393, 6–26–62, Cl. 178—6.8.
Hennig, Ingeborg: *See*—
Ehrhart, Gustav, Hennig, Lindner, and Ott. 3,051,618.
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Schmitt, Karl, Hennig, Lindner, and Ott. 3,045,043.
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Hennig, Karlheinz: *See*—
Speckhardt, Georg, and Hennig. 3,067,269.
Hennig, Victor E. O. Demountable concrete form. 3,035,321. 5–22–62, Cl. 25—131.
Henning, Frederick E. Rock and earth-drilling auger with interchangeable cutting inserts. 3,024,856, 3–13–62, Cl. 175—391.
Henning, Frederick W., and R. J. Gerardi, to United States of America, Navy. Igniter nozzle anti-coking device. 3,030,774, 4–24–62, Cl. 60—39.74.
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Henning, George E., to Western Electric Co., Inc. Apparatus for twisting strands. 3,052,079, 9–4–62, Cl. 57—34.
Henning, Henry A. Metallic building structure. 3,062,334, 11–6–62, Cl. 188—1.
Henning, Robert W.: *See*—
De Caro, Charles J., and Henning. 3,060,436.
De Caro, Charles J., Henning, and Ivins. 3,066,302.
Kopf, Rowland J., Henning, and Marsh. 3,029,435.
Marsh, Roger, Kopf, and Henning. 3,016,539.
Henning, Robert W., to Olin Mathieson Chemical Corp. Fastener driver hammer tool. 3,060,441, 10–30–62, Cl. 1—47.
Henning, Robert W., and R. J. Kopf, to Olin Mathieson Chemical Corp. Powder-actuated tools. 3,029,434, 4–17–62, Cl. 1—44.5.
Henning, Robert W., E. F. Pfaff, and R. J. Kopf, to Olin Mathieson Chemical Corp. Fastening apparatus. 3,041,-616, 7–3–62, Cl. 1—44.5.
Henning, Robert W., and H. L. Ivins, to Olin Mathieson Chemical Corp. Fastener device. 3,060,435, 10–30–62, Cl. 1—44.5.
Henning, Robert W., and H. L. Ivins, to Olin Mathieson Chemical Corp. Swing jaw safety fixture. 3,060,437, 10–30–62, Cl. 1—44.5.
Henning, Robert W., and R. Marsh, to Olin Mathieson Chemical Corp. Cartridges and cartridge firing apparatus. 3,060,855, 10–30–62, Cl. 102—38.
Henning, Robert W., and C. J. De Caro, to Olin Mathieson Chemical Corp. Explosive actuated driving device. 3,063,-054, 11–13–62, Cl. 1—44.5.
Henning, Wolfgang. Pipe strap or hose clamp. 3,038,230, 6–12–62, Cl. 24—282.
Henning, Wolfgang. Clamping ring. 3,069,741, 12–25–62, Cl. 24—279.
Henninger, Clyde K.: *See*—
Smith, William C., and Henninger. 3,044,625.
Henninger, Elmer G.: *See*—
Matheson, William A., and Henninger. 3,037,612.
Henninger, Friedrich, to Motoren-Werke Mannheim A.G. Vorm. Benz Abt. Stat Motorenbau. Starting and reversing system for Diesel engines. 3,019,596, 2–6–62, Cl. 60—16.
Henninges, Ernst. Elastic compound sealing strip. 3,029,-481, 4–17–62, Cl. 20—69.
Henningsen, Erik, to McGraw-Edison Co. Method and apparatus for impregnation of porous articles. 3,042,546, 7–3–62, Cl. 117—95.
Henningsen, Etlar A., and E. J. Johnston, to International Harvester Co. Tooth bar mounting for parallel rakes. 3,023,039, 2–27–62, Cl. 287—119.
Henningsson, Ragnar: *See*—
Wulff, Sigurd, Henningsson, and Cassler. 3,062,561.
Henningsson, Thom L., to Aktiebolaget Vabix. Radiator receivable in a wall recess. 3,022,048, 2–20–62, Cl. 257—136.
Hennion, Joseph B., to Tyler Refrigeration Corp. Check-out arrangement for self-service stores. 3,062,324, 11–6–62, Cl. 186—1.
Hennis, Earl S., and K. C. Maholm, to Knapp-Monarch Co. Inflator for inflatable appliance. 3,023,932, 3–6–62, Cl. 222—5.
Hennis, Henry E., and E. H. Rosenbrock, to The Dow Chemical Co. Scent composition. 3,022,222, 2–20–62, Cl. 167—94.
Henny, Willi, G. F. Savonuzzi, and R. A. Mendelsohn, to Chrysler Corp. Gas turbine adjustable nozzle and interstage inner shroud suspension. 3,038,697, 6–12–62, Cl. 253—39.
Henny, Willi, and G. F. Savonuzzi, to Chrysler Corp. Gas turbine engine interstage inner shroud suspension. 3,059,-900, 10–23–62, Cl. 253—39.
Henrich, Charles D. Hydraulic lift for corn sheller feeder. 3,064,656, 11–20–62, Cl. 130—6.
Henrich, Günter: *See*—
Rahlfs, Erich, and Henrich. 3,015,542.
Rahlfs, Erich, and Henrich. 3,028,219.
Henrich, William H.: *See*—
Chow, Wen T., and Henrich. 3,028,659.
Henrichsen, Knut, to North American Aviation, Inc. High temperature variable displacement pump. 3,053,196, 9–11–62, Cl. 103—161.
Henrickson, Erling G., and G. A. Moore. Wobble motion mechanism. 3,046,695, 7–31–62, Cl. 46—104.
Henrickson, Henry G.: *See*—
Smith, Clarence J., Henrickson, and Drummond. 3,053,-209.
Henrickson, Henry G., to Kaiser Aluminum & Chemical Corp. Apparatus and method used in making a can body. 3,033,264, 5–8–62, Cl. 153—2.
Henrickson, Henry G., to Kaiser Aluminum & Chemical Corp. Nestable dispensing container. 3,045,871, 7–24–62, Cl. 222—143.
Henrickson, Henry G., to Kaiser Aluminum & Chemical Corp. Apparatus for coating the interior of container. 3,062,-177, 11–6–62, Cl. 118—2.
Henrickson, John A.: *See*—
Frey, John A., and Henrickson. 3,035,826.
Henrickson, Bror W.: *See*—
Black, Warren R., and Henrikson. 3,039,821.
Henrion, Marie C. E. Fluidtight closing means for throttle valves having a continuous outline. 3,034,760, 5–15–62, Cl. 251—173.
Henriksson, Eric O., and H. O. Rasmussen, to A/S Kosangas. Gas control unit. 3,043,332, 7–10–62, Cl. 137—484.4.
Henriques, Eric O., and H. O. Rasmussen, to A/S Kosangas. Gas cylinder fitting. 3,043,334, 7–10–62, Cl. 137—588.
Henrite Products Corp.: *See*—
Loftis, Homer J. 3,065,941.
Henry, Albert R. Pavement breaking drill. 3,063,508, 11–13–62, Cl. 175—147.
Henry-Baudot, Jacques: *See*—
Rahlfs, Erich, Thraum, and Henrich. 3,028,316.
Raymond, Francois H., and Henry-Baudot. 3,029,518.
Henry-Baudot, Jacques, to Printed Motors Inc. Multiple winding electric rotary machines. 3,046,427, 7–24–62, Cl. 310—268.
Henry-Baudot, Jacques, to Printed Motors Inc. Electrical windings for rotary machines. 3,050,650, 8–21–62, Cl. 310—268.
Henry-Baudot, Jacques, to Printed Motors, Inc. Shaded pole type electric machines. 3,056,056, 9–25–62, Cl. 310—172.
Henry-Baudot, Jacques, to Printed Motors, Inc. Electrical rotating machines. 3,056,058, 9–25–62, Cl. 310—268.
Henry-Baudot, Jacques, to Printed Motors, Inc. Printed circuit rotor for axial air gap motor. 3,060,337, 10–23–62, Cl. 310—268.
Henry, Beulah L. Direct and return mailing envelope. 3,018,033, 1–23–62, Cl. 229—73.
Henry, Beulah L. Baster oven. 3,055,287, 9–25–62, Cl. 99—346.
Henry, Clarence R., to Philadelphia Quartz Co. Water treatment. 3,061,541. 10–30–62, Cl. 210—47.
Henry, Clemence J., and R. B. Tierney, to Texaco Inc. Non-squawking automatic transmission fluid. 3,039,967, 6–19–62, Cl. 252—75.
Henry, Edward N., and C. Piaia, Jr., to Westinghouse Electric Corp. Insulated electrical apparatus. 3,030,596, 4–17–62, Cl. 336—61.
Henry, Elliott A., to Sperry Products, Inc. Ultrasonic inspection and measuring means. 3,019,636, 2–6–62, Cl. 73—67.7.
Henry, Elliott A., to Sperry Products, Inc. High resolution piezoelectric transducer. 3,036,231, 5–22–62, Cl. 310—9.7.
Henry, Elliott A., to Branson Instruments, Inc. Ultrasonic wave train generator. 3,038,328, 6–12–62, Cl. 73—67.9.
Henry, Elliott A., to Branson Instruments Inc. Triangular wave generator. 3,048,795, 8–7–62, Cl. 331—152.
Henry, Elliott A., to Sperry Products, Inc. Carrier technique for wide range ultrasonic inspection. 3,050,989, 8–28–62, Cl. 73—67.7.

Henry, Elliott A., to Sperry Products, Inc. Ultrasonic mechanical impedance measuring device. 3,057,188, 10–9–62, Cl. 73—67.1.
Henry, Elliott A., and E. R. Laposka, to Sperry Products, Inc. Thyratron impulse generator. 3,038,102, 6–5–62, Cl. 315—176.
Henry, Everett A., and P. A. Lloyd, to Sperry Rand Corp. (Sperry Gyroscope Co. Division). Aircraft automatic pilot. 3,052,428, 9–4–62, Cl. 244—77.
Henry, Guy A. E.: *See*—
Jacquet, Jacques N., and Henry. 3,045,157.
Henry, J. T., Mfg. Co., Inc.: *See*—
Townshend, Henry H., Jr. 3,040,711.
Henry, James J., to Conch International Methane Ltd. Tank construction. 3,018,916, 1–30–62, Cl. 220—15.
Henry, James J., to Conch International Methane Ltd. Ship. 3,021,808, 2–20–62, Cl. 114—74.
Henry, James J., to Conch International Methane Ltd. Storage means for a liquefied gas. 3,041,841, 7–3–62, Cl. 62—45.
Henry, James J., to Conch International Methane Ltd. Ship and tank thereon. 3,052,203, 9–4–62, Cl. 114—74.
Henry, James L.: *See*—
Brooks, Chester E., Crofutt, and Henry. 3,070,666.
Henry, James S., to Callaway Mills Co. Method and apparatus for producing multicolored single yarn in simulation of ply yarn. 3,020,697, 2–13–62, Cl. 57—36.
Henry, James W., to United States of America, Navy. Gas displacement activator for deferred action type batteries. 3,052,744, 9–4–62, Cl. 136—90.
Henry, John E., and G. A. Reasor, to Hercules Powder Co. Process of preparing carboxyalkyl cellulose ethers. 3,069,409, 12–18–62, Cl. 260—231.
Henry, Kenneth M.: *See*—
Hackett, James W., Henry, and McCormick. 3,030,536.
Henry, Lyell D. Means for sensing roughness of a roadway surface. 3,069,904, 12–25–62, Cl. 73—146.
Henry, Melvin D. Contour supporting molded garment hanger. 3,059,824, 10–23–62, Cl. 223—88.
Henry, Mort: *See*—
Efram, Rudolph H., Applebaum, and Henry. 3,022,891.
Henry, Nelson B., to United States Rubber Co. Quill winder. 3,042,327, 7–3–62, Cl. 242—27.1.
Henry, Nelson R., to The Woodman Co., Inc. Batch weighing apparatus. 3,025,920, 3–20–62, Cl. 177—99.
Henry, Richard E., and F. Wash, to Koehring Co. Retriever for auger earth boring tools. 3,017,216, 1–16–62, Cl. 294—86.
Henry, Robert C., to Universal Oil Products Co. Stabilizing sulfur-containing alkaline solutions. 3,017,364, 1–16–62, Cl. 252—188.
Henry, Robert L., to The Cincinnati Milling Machine Co. Universal line tracer. 3,019,343, 1–30–62, Cl. 250—202.
Henry, Ronald A.: *See*—
Finnegan, William G., Henry, and Skolnik. 3,055,911.
Henry, Ronald A., and C. W. Tait, to United States of America, Navy. Liquid propellants. 3,070,473, 12–25–62, Cl. 149—89.
Henry, Thomas G. Church seat cushions and method of making and installing same. 3,065,031, 11–20–62, Cl. 297—450.
Henry, Thomas R., and F. J. Soriero, Jr., to Curtiss-Wright Corp. Apparatus for measuring reaction engine thrust. 3,038,331, 6–12–62, Cl. 73—116.
Henry Valve Co.: *See*—
Jones, Evan. 3,053,499.
Jones, Evan. 3,064,819.
Henry, W. W., Co., Inc.: *See*—
Du Vall, Wilbur E. 3,028,556.
Du Vall, Wilbur E. 3,049,623.
Du Vall, Wilbur E. 3,050,695.
Du Vall, Wilbur E., and Gammon. 3,056,922.
Henry, William H., and J. J. Purcell, to International Business Machines Corp. Toll highway recorder. 3,037,696, 6–5–62, Cl. 235—99.
Hensch, Edward J.: *See*—
Lindlaw, William, and Hensch. 3,041,296.
Henschel, Joseph W. Water-cooled headwear. 3,029,538, 4–17–62, Cl. 2—7.
Henschel Werke G.m.b.H.: *See*—
Hany, Harald. 3,052,220.
Hany, Harald, Roosen, and Spehr. 3,051,089.
Henschen, Homer E., to AMP Inc. Sheet metal pin socket. 3,058,091. 10–9–62. Cl. 339—217.
Hense, Theo. Electronic command and information transfer system in industrial automation processes. 3,048,330, 8–7–62, Cl. 235—151.
Hensel, Hans R., and H. Baumann, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of 1-aryl-4,5-dihalogenpyridazones-(6). 3,045,014, 7–17–62, Cl. 260—250.
Hensel, Walter C., to Universal Oil Products Co. Side wall burner arrangement. 3,028,907, 4–10–62, Cl. 158—1.
Hensel, Walter C., to Universal Oil Products Co. Fluid heater. 3,066,656, 12–4–62, Cl. 122—240.
Hensel, Werner R. E.: *See*—
Foerster, Hans-Joachim M., and Hensel. 3,067,632.
Hensel, Werner R. E., to Daimler-Benz Aktiengesellschaft. Planetary gear transmission. 3,053,117, 9–11–62, Cl. 74—763.
Hensen, George J.: *See*—
Roark, Richard E. 3,064,725.
Hensen, Raymond M., and R. L. Sailor, to Food Saver Inc. Spray head for egg oiling machine. 3,053,223, 9–11–62, Cl. 118—610.
Henshall, Harold G.: *See*—
Cleland, William J., Henshall, Roper, Waring, and Seijo. 3,052,664.
Henshaw, Richard C., to Lord Mfg. Co. Pump. 3,034,444, 5–15–62, Cl. 103—117.
Henshaw, Thomas A., to The Pyrene Co. Ltd. Inductors for liquids. 3,040,758, 6–26–62, Cl. 139—9.
Henslee, Lewis W., Jr.: *See*—
Le Blanc, Carrol P., and Henslee. 3,022,244.
Hensler, Elmer G., to McGraw-Edison Co. Method for forming short radius fibre bends. 3,058,874, 10–16–62, Cl. 162—223.
Hensley, Albert L., Jr.: *See*—
Barney, James E., II, Tuskan, and Hensley. 3,058,813.
Hensley, Jack I. Position sensitive liquid conductor switch. 3,030,477, 4–17–62, Cl. 200—152.
Hensley, James L., to Ty-Sa-Man Machine Co. Machine tools. 3,020,679, 2–13–62, Cl. 51—34.
Hensley, James L., to Ty-Sa-Man Machine Co. Cutting machines. 3,054,224, 9–18–62, Cl. 51—33.
Hensley, James L., to Ty-Sa-Man Machine Co. High speed friction saw having liquid cooling means. 3,069,950, 12–25–62, Cl. 83—168.
Hensley, William L., to American Cyanamid Co. Primer for polyester reinforced plastic. 3,065,109, 11–20–62, Cl. 117—138.8.
Hensoldt, M., & Sohne Optische Werke A.G.: *See*—
Rantsch, Kurt. 3,026,620.
Rantsch, Kurt. 3,041,922.
Rantsch, Kurt, and Faust. 3,020,802.
Henson, Douglas R., to Dunlop Rubber Co. Ltd. Conveyor belting. 3,047,446, 7–31–62, Cl. 154—52.1.
Henson, Harry H. Cleaning device having a detachable handle. 3,021,547, 2–20–62, Cl. 15—145.
Henson, Harry H. Detachable implement handle. 3,069,190, 12–18–62, Cl. 287—115.
Henson, Walter A., R. F. Helmreich, and W. E. Johnson, to The Dow Chemical Co. Urethane polymer prepared from an organic polyisocyanate and 2,2-bis (4-cyclohexanol) propane. 3,061,559, 10–30–62, Cl. 260—2.5.
Henss, Heinrich, to Vdo Tachometer Werke, Adolph Schindling G.m.b.H. Control panel for measuring instruments. 3,022,447, 2–20–62, Cl. 317—99.
Henss, Heinrich, to VDO Tachometer Werke Adolf Schindling G.m.b.H. Manually operated collapsible wall pump for window-washers in automotive vehicles. 3,058,140, 10–16–62, Cl. 15—250.01.
Henss, Heinrich, to VDO Tachometer Werke Adolf Schindling G.m.b.H., Fa. Speed warning device for motor vehicles. 3,059,230, 10–16–62, Cl. 340—263.
Hentschel, Klaus: *See*—
Haisemann, Werner, and Hentschel. 3,040,588.
Henze, Ernst F., to Telefunken G.m.b.H. Arrangement for producing a series of pulses. 3,038,028, 6–5–62, Cl. 178—22.
Henze, Herbert O. Spinning reel construction. 3,045,942, 7–24–62, Cl. 242—84.21.
Hepburn, William M., to Midland-Ross Corp. Two-stage combustion direct fired and radiant tube furnace. 3,032,326, 5–1–62, Cl. 263—42.
Hepner, Charles, to Erdeo Engineering Corp. Packaging machine. 3,029,007, 4–10–62, Cl. 226—173.
Hepola, George E.: *See*—
Samhammer, Donald F., and Hepola. 3,061,023.
Hepp, James, to Ed-U-Cards Mfg. Co. Shipping and display container. 3,055,494, 9–25–62, Cl. 206—45.19.
Heppe, Robert J., to International Telephone and Telegraph Corp. Control reversal sensor. 3,044,734, 7–17–62, Cl. 244—77.
Heppenstall, Charles W. Retractable jet engine noise suppressor. 3,067,968, 12–11–62, Cl. 244—74.
Heppenstall Co.: *See*—
Anderson, John R. 3,037,806.
Heppler, Herbert, and P. M. Stiglic. Temperature responsive gas turbine fuel control with multi-rate feedback. 3,017,749, 1–23–62, Cl. 60—39.28.
Heppner, Leander J. Impact tool. 3,023,628, 3–6–62, Cl. 74—55.
Hepworth Machine Co., Inc.: *See*—
McPhee, Alexander H., and Reid. 3,019,902.
Hepworth, Walter, to Imperial Chemical Industries Ltd. Antibacterial compositions containing 1-methyl-6-nitro-4-quinolone-3-carboxylic acid or sodium salt thereof. 3,049,474, 8–14–62, Cl. 167—65.
Heraeus, W. C., G.m.b.H.: *See*—
Armbruster, Werner, and Maas. 3,042,510.
Gruber, Helmut, and Scheidig. 3,019,274.
Gruber, Helmut, and Scheidig. 3,042,731.
Lorenz, Albert. 3,019,275.
Lorenz, Albert. 3,042,292.
Lorenz, Albert. 3,066,855.
Herald, Carl T., E. J. McGinley, and O. A. Battista, to American Viscose Corp. Foamable food product containing cellulose crystallite aggregates. 3,067,037, 12–4–62, Cl. 99—139.
Herard, Archibald J., to Crompton & Knowles Corp. Transferring and revoking means for weft replenishing looms. 3,053,286, 9–11–62, Cl. 139—231.
Herasymenko, Anna: *See*—
Herasymenko, Polykarp. 3,036,961.

Herasymenko, Polykarp, deceased, by A. Herasymenko, administratrix. Electrolytic refinement of metals. 3,036,961, 5–29–62, Cl. 204—64.
Herbenar, Edward J., to Thompson Ramo Wooldridge Inc. Parallelogram steering linkage. 3,028,172, 4–3–62, Cl. 280—95.
Herbenar, Edward J., to Thompson Ramo Wooldridge Inc. Bleed controlled fluid-mechanical coupling. 3,033,334, 5–8–62, Cl. 192—3.2.
Herbenar, Edward J., to Thompson Ramo Wooldridge Inc. Joint assembly. 3,041,094, 6–26–62, Cl. 287—87.
Herbenar, Edward J., and S. S. Mazur, to Thompson Ramo Wooldridge Inc. Ball joint assembly. 3,068,031, 12–11–62, Cl. 287—90.
Herbert, Danuta, and J. Ulam, to Electric Techniques Corp., N.Y. Electric dry cells and storage batteries. 3,043,896, 7–10–62, Cl. 136—6.
Herbert, Donald H., to Bohanan Mfg. Co. Store ejector rack. 3,056,623, 10–2–62, Cl. 294—83.
Herbert, Hans, M. Reiher, and G. Pfleiderer, to Farbwerke Hoechst Aktiengesellschaft vormals. Meister Lucius & Bruning & A. Ehrenreich & Cie. Method of making a bearing insert for ball joints. 3,059,318, 10–23–62, Cl. 29—149.5.
Herbert, Harold W., and R. J. Walsh, to Sylvania Electric Products Inc. Electron discharge device. 3,070,724, 12–25–62, Cl. 313—293.
Herbert, John M., to The Plessey Co. Ltd. Ceramic material and method of producing the same. 3,028,656, 4–10–62, Cl. 29—25.42.
Herbert, John M., to The Plessey Co. Ltd. Production of ceramic material. 3,041,189, 6–26–62, Cl. 106—39.
Herbert, Thomas A., Jr., to Rohr Aircraft Corp. Heat insulating and method of making same. 3,032,150, 5–1–62, Cl. 189—34.
Herbert, Thomas A., Jr., to Rohr Aircraft Corp. Apparatus and method for brazing honeycomb sandwich panels. 3,033,973, 5–8–62, Cl. 219—85.
Herbert, Wilelm: *See*—
Weittenhiller, Hellmuth, Bieger, Schoď, Herbert, Dorschner, and Gross. 3,069,250.
Herbert, Wilhelm, H.-W. Gross, and O. Dorschner, to Metallgesellschaft Aktiengesellschaft, A.G. Process for the production of fuel gas low in carbon monoxide. 3,069,249, 12–18–62, Cl. 48—197.
Herbert, William C., Jr. Static eliminators. 3,037,149, 5–29–62, Cl. 317—2.
Herbert, William S.: *See*—
Ruetschi, Paul, Cahan, and Herbert. 3,057,944.
Herberth, John M.: *See*—
Kubiak, Emil A., and Herberth. 3,026,810.
Herberts, Dr. Kurt, & Co. vorm Otto Louis Herberts: *See*—
Hagele, Gustav, Meyer, and Johannsen. 3,044,978.
Hagele, Gustav, Meyer, and Johannsen. 3,066,114.
Herbig, Eugene, to Knapp-Monarch Co. Automatic piercing and cut-off mechanism for electric can opener. 3,060,566, 10–30–62. Cl. 30—4.
Herbig, Henry F.: *See*—
Haigh, Leslie B., Herbig, and Blanchard. 3,051,790.
Haigh, Leslie B., Herbig, and Bucarey. 3,069,503.
Herbig, Henry F., and E. R. Schimdt, to International Telephone and Telegraph Corp. Transistor oscillators. 3,015,696, 1–2–62, Cl. 179—17.
Herbine, Stanley C.: *See*—
Hoffmaster, George R., Gongoll, Herbine, and Bohner. 3,060,444.
Herbkersman, Earle C., to The Pipe Machinery Co. Apparatus for accumulating elongated members in parallel relation in a pile. 3,055,515, 9–25–62, Cl. 214—6.
Herbold, Fritz: *See*—
Hambsch, Erich, and Herbold. 3,039,918.
Herbold, Wolfgang. Deep boring gear including a water jet pump. 3,024,853, 3–13–62, Cl. 175—213.
Herbold, Wolfgang K. J., ½ to P. O. Tobeler, doing business under the name of Trans-Oceanic. Method for oscillating drilling. 3,049,185, 8–14–62, Cl. 175—19.
Herbruggen, Heinrich J. B. Packing ring. 3,027,168, 3–27–62, Cl. 277—215.
Herbst, Clarence A., to Resinoid Engineering Corp. Method of making commutators. 3,066,387, 12–4–62, Cl. 29—155.54.
Herbst, Edward J., to The Singer Mfg. Co. Shuttle mechanisms for sewing machines. 3,016,033, 1–9–62, Cl. 112—232.
Herbst, Edward J., and G. R. Muller, to The Singer Mfg. Co. Support means for sewing machines. 3,048,460, 8–7–62, Cl. 312—30.
Herbst, John A., to Bogue Electric Mfg. Co. Hydraulic actuator. 3,030,934, 4–24–62, Cl. 121—99.
Herbst, John A., and S. Garnett, to Bogue Electric Mfg. Co. Mine sweeping system. 3,060,883, 10–30–62, Cl. 114—221.
Herbst, Philip J., to Radio Corp. of America. Information transmission system. 3,037,190, 5–29–62, Cl. 340—170.
Herbst, Ralph L., and B. F. Landrum, to Minnesota Mining and Mfg. Co. Polymerization of fluorine-containing olefins. 3,024,224, 3–6–62, Cl. 260—87.5.
Herbst, Thomas W.: *See*—
Morgan, William H., Herbst, and King. 3,046,791.
Herbst, William: *See*—
McKee, Ian K., and Herbst. 3,034,911.
Hercik, Lad L. Material shearing apparatus. 3,017,797, 1–23–62, Cl. 83—349.
Hercik, Lad L. Stock shear having stock stop and clamping means. 3,039,344, 6–19–62, Cl. 83—165.
Hercules, Christopher D. Tire tread safety gauge. 3,017,702, 1–23–62, Cl. 33—172.
Hercules Galion Products, Inc.: *See*—
Biszantz, Fred, and Ruth. 3,034,831.
Hercules Powder Co.: *See*—
Amberg, Lyle O. 3,058,859.
Arots, Joseph B., and Fletcher. 3,029,139.
Beermann, Claus, and Bestian. 3,037,971.
Blair, David R., Jr., Bonner, Coleman, and Ryan. 3,048,-103.
Blair, David R., Jr., Coleman, and Ryan. 3,064,573.
Boddorff, Raymond D., Lawrence, and Roth. 3,063,373.
Bohlman, Walter S., and Hayes. 3,033,069.
Bonner, Lyman G. 3,033,117.
Borel, Eric A. 3,022,225.
Borel, Eric A. 3,022,224.
Brack, Karl. 3,031,372.
Breslow, David S. 3,058,957.
Breslow, David S., and Spurlin. 3,058,944.
Brobst, Robert A. 3,049,538.
Butler, Robert W. 3,049,433.
Butler, Robert W. 3,064,313.
Camp, Albert T. 3,036,939.
Chiang, Robert. 3,025,281.
Christman, Donald L., and Vandenberg. 3,025,282.
Cochrane, John D., III, and Witt. 3,063,981.
Conner, Willard P., Jr., and Davis. 3,065,159.
Cooke, Maurice D. 3,049,477.
Davison, Robert W. 3,049,469.
De Butts, Edward H. 3,021,349.
De Butts, Edward H., and Matlack. 3,021,319.
Downard, Jack M. 3,014,201.
Eilo, Clyde W. 3,049,079.
Eilo, Clyde W., and Ott. 3,055,299.
Feild, George B. 3,017,379.
Feild, George B., and Markwood. 3,020,133.
Frey, Christian M. 3,064,023.
Greenwell, Richard H., 3,036,055.
Greenwell, Richard H. 3,058,973.
Harpham, John A., and Turner. 3,069,311.
Harris, George C., and Leonard. 3,070,594.
Harris, George C., and Weisgerber. 3,070,452.
Harrison, John R. 3,049,434.
Haubein, Albert H. 3,065,128.
Heck, Richard F. 3,025,275.
Heck, Richard F. 3,025,276.
Heck, Richard F. 3,048,573.
Heck, Richard F., and Vandenberg. 3,025,283.
Henry, John E., and Reasor. 3,069,409.
John, Andrew, Jr. 3,036,124.
Keeble, John A. 3,029,294.
Keim, Gerald I. 3,039,889.
Keim, Gerald I., and Schulz. 3,058,873.
Keim, Gerald I., and Thompson. 3,066,066.
Klug, Eugene D. 3,033,853.
Klug, Eugene D., and Roberson. 3,049,537.
Kouba, Delore L., Paul, and Stow. 3,053,908.
Kutner, Abraham. 3,058,945.
Kutner, Abraham. 3,058,923.
Lawrence, Robert W., and Shiel. 3,055,648.
Levering, Dewey R. 3,065,250.
Levering, Dewey R., and Maury. 3,062,887.
Levine, Max, and Kuhn. 3,017,238.
Maury, Lucien G., and Nahill. 3,044,844.
Maury, Lucien G., and Nahill. 3,044,853.
McCurdy, Gordon W. 3,027,597.
McNeil, Harry D., Jr. 3,057,823.
McNeil, Harry D., Jr. 3,057,828.
Morrow, Donald G. 3,063,804.
Moyer, Richard L., and Ott. 3,069,074.
Nixon, Joseph R., Jr. 3,029,292.
Nixon, Joseph R., Jr. 3,029,293.
Osgan, Maseh. 3,052,660.
Preckel, Ralph F. 3,032,972.
Preckel, Ralph F. 3,033,715.
Preckel, Ralph F. 3,033,716.
Preckel, Ralph F. 3,033,717.
Preckel, Ralph F. 3,033,718.
Preckel, Ralph F. 3,037,247.
Preckel, Ralph F. 3,037,890.
Robinson, Anderson E., Jr. 3,026,270.
Robinson, Anderson E., Jr. 3,026,305.
Ropp, Walter S. 3,036,981.
Ropp, Walter S. 3,042,630.
Roth, Charles F., and Webnar. 3,061,576.
Sartin, Jarvis G. 3,066,810.
Sawaya, Albert R. 3,039,840.
Shapleigh, James H. 3,063,814.
Snyder, John C. 3,038,922.
Teves, Milton A. 3,030,413.
Thompson, Bernard H. M. 3,043,882.
Thompson, Bernard H. M. 3,043,883.
Vandenberg, Edwin J. 3,051,690.
Vandenberg, Edwin J. 3,058,922.
Vandenberg, Edwin J. 3,058,963.
Vandenberg, Edwin J. 3,065,187.
Vandenberg, Edwin J. 3,065,188.
Vandenberg, Edwin J. 3,065,213.
Watkins, Spencer H. 3,030,221.
Weiland, Henry J. 3,048,887.

Hercules Powder Co.: *See*—Continued
Weiland, Henry J. 3,049,420.
Welder, Dean D. 3,027,709.
Winer, Richard. 3,028,274.
Woodard, Geoffrey D. L. and M. W. 3,038,836.
Young, Richard E. 3,025,205.
Young, Richard E. 3,047,191.
Young, Richard E. 3,063,650.
Zebree, David T. 3,048,507.
Hercules Powder Co. Inc.: *See*—
Dexheimer, Hans, Fuchs, and Schmieder. 3,058,952.
Grundmann, Werner, Bestian, Bahr, and Sommer. 3,066,130.
Rust, Kurt K. G., Gumboldt, Horndler, Sommer, and Heitzer. 3,058,970.
Herculite Corp.: *See*—
Hanff, Theodore R. 3,062,450.
Herd, Robert E.: *See*—
Hardy, William B., and Herd. 3,027,375.
Hardy, William B., and Herd. 3,027,376.
Hardy, William B., and Herd. 3,030,369.
Herdle, Lloyd E.: *See*—
Malm, Carl J., Herdle, and Gandy. 3,047,391.
Herdle, Lloyd E., and G. C. Milligan, to Eastman Kodak Co. Sized partially esterified paper and its method of preparation. 3,062,679, 11–6–62, Cl. 117—76.
Heredy, Leslie A.: *See*—
Del Bel, Elsio, Heredy, and Neuworth. 3,027,345.
Herénguel, Jean, to Commissariat a l'Energie Atomique. Method of treating metallic powders. 3,041,716, 7–3–62, Cl. 29—420.5.
Hereth, Ralph F.: *See*—
Grenstad, Arvid, Hereth, Morris, and Sherman. 3,045,552.
Hereth, Ralph F., to United States of America, Navy. Missile stowing apparatus. 3,065,673, 11–27–62, Cl. 89—1.7.
Hereth, Ralph F., and L. R. Morris, to United States of America, Navy. Arming system. 3,049,976, 8–21–62, Cl. 89—1.7.
Hereth, Ralph F., and O. R. Butterfield, to United States of America, Navy. Hydraulic power transmission unit for driving an intermittently secured member. 3,065,674, 11–27–62, Cl. 89—1.7.
Hergatt, Robert N., and M. P. Hale. Body waste receptor appliance. 3,043,306, 7–10–62, Cl. 128—283.
Hergenrother, Rudolf C., to Raytheon Co. Cathode ray tubes. 3,016,474, 1–9–62, Cl. 315—13.
Hergenrother, Rudolf C., A. S. Luftman, C. E. Sawyer, and D. D. Duggan, to Raytheon Co. Method for installing electrodes. 3,068,548, 12–18–62, Cl. 29—25.16.
Herickes, Joseph A.: *See*—
Damon, Glenn H., Ribovich, and Herickes. 3,069,300.
Herider, Elmer A.: *See*—
Pits, Kennard, and Herider. 3,066,979.
Herion, Erich: *See*—
Ruchser, Erich. 3,059,621.
Rüchser, Erich. 3,068,897.
Herlet, Adolf: *See*—
Patalong, Hubert, and Herlet. 3,068,127.
Herlet, Adolf, E. Spenke, and R. Emeis, to Siemens-Schuckertwerke Aktiengesellschaft. Electric semiconductor device. 3,068,383, 12–11–62, Cl. 317—234.
Herlihy, William F., to Lowell Counter Co. Shoe upper molding apparatus. 3,017,645, 1–23–62, Cl. 12—54.3.
Herlong, Robert P., to Diebold, Inc. Manipulation resistive combination lock. 3,045,466, 7–24–62, Cl. 70—303.
Herlong, Robert P., to Diebold, Inc. Manipulation resistive combination lock. 3,045,467, 7–24–62, Cl. 70—322.
Herman, Bernard, to Stardust, Inc. Slips. 3,066,675, 12–4–62, Cl. 128—454.
Herman, Daniel F.: *See*—
Simone, Dominic, and Herman. 3,037,004.
Simone, Dominic, and Herman. 3,053,817.
Herman, Daniel F., to National Lead Co. Organic compounds of fourth-group metals. 3,027,392, 3–27–62, Cl. 260—429.5.
Herman, Daniel F., A. L. Resnick, and D. Simone, to National Lead Co. Aqueous phase polymerization of vinyl and related monomers with organic cocatalysts. 3,050,504, 8–21–62, Cl. 260—80.
Herman, Eugene T., to The Goodyear Tire & Rubber Co. Refrigerator door seal. 3,025,576, 3–20–62, Cl. 20—69.
Herman, Harold C.: *See*—
Goldman, Leon S. 3,043,751.
Seiler, William. 3,027,637.
Herman, Irving M., to Bell Aerospace Corp. Carbide thread plug shock absorber. 3,064,355, 11–20–62, Cl. 33—199.
Herman, Jean F. Meter for liquid. 3,024,656, 3–13–62, Cl. 73—230.
Herman, Martin A. Master type squaring fixture. 3,067,518, 12–11–62, Cl. 33—112.
Herman, Moe: *See*—
Herman, Sam and Moe. 3,031,705.
Herman, Sam and Moe. 3,031,711.
Herman, Phyllis G.: *See*—
Hertz, Abraham. 3,063,601.
Herman, Sam and Moe. Self wringing sponge mop having slide-on holder. 3,031,705, 5–1–62, Cl. 15—119.
Herman, Sam and Moe. Shoe polishing kit. 3,031,711, 5–1–62, Cl. 15—528.
Herman, Virgil L., B. A. Muller, and E. L. Bowman, to Northrop Corp. Process for chucking porous materials. 3,064,345, 11–20–62, Cl. 29—421.
Hermann, Charles E. Rock crusher. 3,058,676, 10–16–62, Cl. 241—188.
Hermann, Christian P. Pivoting and mobile hoisting contrivances. 3,037,643, 6–5–62, Cl. 212—145.
Hermann, Edward C., to E. I. du Pont de Nemours and Co. (dl) threo-2-(2,2-dichloracetamido)-1-(*a*-sulfamoylphenyl)-1,3-propanediol esters. 3,027,404, 3–27–62, Cl. 260—490.
Hermann, Eugene J., to National Dairy Products Corp. Sliced swiss cheese. 3,046,140, 7–24–62, Cl. 99—116.
Hermann, Franz: *See*—
Ertl, Alfred, and Hermann. 3,049,731.
Hermann, George F., Jr. Piling. 3,059,436, 10–23–62, Cl. 61—69.
Hermann, Gerald P., and E. D. Treanor, to General Electric Co. Protected transformer. 3,040,212, 6–19–62, Cl. 317—15.
Hermann, Günter: *See*—
Schuh, Carl F., Genning, and Hermann. 3,016,244.
Hermann, Hans: *See*—
Harnisch, Joachim, and Hermann. 3,021,144.
Zimmermann, Heinrich, and Hermann. 3,020,051.
Hermann, Hans D., and E. Fischer, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Polymers of formaldehyde stabilized with hydroxyanthraquinones and process for making them. 3,046,249, 7–24–62, Cl. 260—45.95.
Hermann, Heinrich, Firma: *See*—
Tschentschel, Gerold. 3,023,678.
Hermann, Helmut, to Gewerkschaft Eisenhutte Westfalia. Vibrating planing tool. 3,030,087, 4–17–62, Cl. 262—15.
Hermann, Joachim: *See*—
Koril, Milo, and Hermann. 3,053,095.
Hermann, Joachim, and H. Senger, to Balkow-Entwicklungen K.G. Training appliances for marksmen. 3,046,676, 7–31–62, Cl. 35—25.
Hermann, Le Roy N., to P. S. Pedersen, P. S. Pedersen, Jr., and E. Martin, d/b/a Central Farm Equipment Co. Reinforced panel sheets. 3,059,733, 10–23–62, Cl. 189—34.
Hermann, Otto, to The R. K. Le Blond Machine Tool Co. Servo controlled tool block. 3,035,468, 5–22–62, Cl. 82—24.
Hermann, Peter J.: *See*—
Rosahl, Dietrich, Graulich, Holzrichter, and Hermann. 3,054,192.
Hermann, Raymond A.: *See*—
Berets, Donald J., Hermann, and Van Brocklin. 3,038,911.
Hermann, Richard C., to Zenith Radio Corp. Pulse signal source. 3,024,455, 3–6–62, Cl. 340—348.
Hermanns, Frederick R., to The Singer Mfg. Co. Work handling equipment for sewing machine tables. 3,068,821, 12–18–62, Cl. 112—260.
Hermanns, Wilhelm. Emptying means for containers of powdered material. 3,024,072, 3–6–62, Cl. 302—52.
Hermans, Marie E. A., and T. Van der Plas, to Stichting Reactor Centrum Nederland. Process of nuclear fission. 3,054,738, 9–18–62, Cl. 204—154.2.
Hermans, Matthias L.: *See*—
Meijer, Roelf J., and Hermans. 3,015,475.
Hermanson, Dean E., to U.S. Industries, Inc. Two-in-one pump assembly. 3,034,440, 5–15–62, Cl. 103—4.
Hermanson, Donald E.: *See*—
Czyryk, Chester S., and Hermanson. 3,030,527.
Hermanson, Edward H. 1–30–62, Cl. 221—281.
Article dispensing device. 3,018,921,
Hermanson, Harry M., to Minneapolis-Honeywell Regulator Co. Liquid quantity measuring apparatus. 3,019,651, 2–6–62, Cl. 73—304.
Hermes, Julius. Dyed acrylonitrile containing textile having controlled shrinkage and processes for forming same. 3,069,218, 12–18–62, Cl. 88—17.
Hermes, Julius. Dyeing of acrylonitrile polymeric structures. 3,069,221, 12–18–62, Cl. 8—92.
Hermes, Julius. Acrylonitrile containing textile having controlled shrinkage and processes for forming same. 3,069,222, 12–18–62, Cl. 8—130.1.
Hermes Landbouwmachinefabriek & de Vries N.V.: *See*—De Vries, Siebren. 3,021,656.
Hermes, Robert J., to Morgan Construction Co. Repeater for rolling mill. 3,024,678, 3–13–62, Cl. 80—52.
Hermes, Willem, to North American Philips Co., Inc. Direct-voltage monitoring circuit. 3,042,839, 7–3–62, Cl. 317—146.
Hermle, Eduard. Electric switch and sealing element therefor. 3,042,764, 7–3–62, Cl. 200—47.
Hermorion Ltd.: *See*—
Jarund, Harry S. V. 3,032,251.
Hermsen, Johannes, P. J. Kraaijeveld, and N. Warmoltz, to North American Philips Co., Inc. Geiger-Müller counting tube. 3,047,760, 7–31–62, Cl. 313—93.
Hermsen, Johannes, and K. van Duuren, to North American Philips Co., Inc. Beta ray detectors. 3,056,059, 9–25–62, Cl. 313—93.
Hern, John F., and K. E. Gierman, to American Metal Products Co. Adjustable support for back cushion. 3,063,750, 11–13–62, Cl. 297—355.
Hernan, George W., to Ultronic Systems Corp. Recording circuit. 3,056,119, 9–25–62, Cl. 340—174.1.

Hernandez, José, and H. Cartoux, to Pechiney, Compaignie de Produits Chimiques et Electrometallurgiques. Refractory furnace linings and process for producing same. 3,030,228, 4–17–62, Cl. 117—70.

Herndon, James A., to Avco Corp. Function generator. 3,064,899, 11–20–62, Cl. 235—197.

Herndon, John W., and L. M. Welch, to Petro-Tex Chemical Corp. Butadiene purification. 3,070,641, 12–25–62, Cl. 260—681.5.

Herndon, Walter B. : *See*—
Borman, August H., Jr., Cheek, Scheiter, and Herndon. 3,048,055.

Hernqvist, Karl G., to Radio Corp. of America. Low temperature thermionic energy converter. 3,021,472, 2–13–62, Cl. 322—2.

Hernqvist, Karl G., to Radio Corp. of America. High temperature plasma confinement using a travelling electromagnetic field. 3,029,361, 4–10–62, Cl. 315—39.

Herold, Conrad J., to Combustion Engineering, Inc. Temperature equalizing multiport water level gauge. 3,066,-533, 12–4–62, Cl. 73—328.

Herold, Curt P. Multiple quick disconnector. 3,024,703, 3–13–62, Cl. 89—1.7.

Herold, Edward W., to United States of America, Atomic Energy Commission. Frequency control of R.F. heating of gaseous plasma. 3,052,614, 9–4–62, Cl. 204—193.2.

Herold, Henry L. : *See*—
Beek, Joseph A., Jr., and Herold. 3,029,025.

Herold, Milos : *See*—
Culik, Karel, Herold, Palkoska, Belik, and Dasek. 3,037,917.

Herolf, Kjell O. G., to Sunds Verkstader Aktiebolag. Barking machines. 3,019,825, 2–6–62, Cl. 144—208.

Heronemus, William E. : *See*—
Kittredge, George W., and Heronemus. 3,045,622.

Heroy, James H., Jr., to Pittsburgh Plate Glass Co. Unit package for painting. 3,027,999, 4–3–62, Cl. 206—47.

Herpich, William A. : *See*—
Dempster, George R., and Herpich. 3,049,249.
Dempster, George R., and Herpich. 3,049,250.
Dempster, George R., and Herpich. 3,049,254.
Dempster, George R., and Herpich. 3,064,852.
Dempster, George R., Herpich, and Toppins. 3,064,834.

Herpin, Jean-Claude, to Compagnie des Machines Bull (Societe Anonyme). Device for advancing record cards in record card controlled machines. 3,017,077, 1–16–62, Cl. 234—128.

Herr, Benjamin F. : *See*—
McLaughlin, Guy, Jr., Delinger, and Herr. 3,057,451.

Herr, Charles H., Jr., to Allis-Chalmers Mfg. Co. Means for maintaining a pair of mating gears in mesh. 3,043,158, 7–10–62, Cl. 74—462.

Herr, Charles H., Jr., to Allis-Chalmers Mfg. Co. Fluid operated clutch. 3,044,595, 7–17–62, Cl. 192—87.

Herr, Edwin : *See*—
Krämer, Hermann, and Herr. 3,067,690.

Herr Equipment Corp., The : *See*—
Herr, Richard F. 3,033,482.
Herr, Richard F. 3,038,681.
Herr, Richard W. 3,061,224.
Karber, Leonard A. 3,048,346.
Karber, Leonard A. 3,069,778.

Herr, John A., to The Singer Mfg. Co. Speed-regulating system. 3,058,044, 10–9–62, Cl. 318—246.

Herr, Milton E. : *See*—
Babcock, John C., Campbell, Herr, Hogg, and Pederson. 3,016,387.

Herr, Richard F., to The Herr Equipment Corp. Reels for tenuous material. 3,033,482, 5–8–62, Cl. 242—72.1.

Herr, Richard F., to Herr Equipment Corp. Coil unwinder. 3,038,681, 6–12–62, Cl. 242—78.6.

Herr, Richard W., to The Herr Equipment Corp. Apparatus for coiling strip material. 3,061,224, 10–30–62, Cl. 242—72.1.

Herr, Robert W. Counter mechanisms. 3,065,909, 11–27–62, Cl. 235—139.

Herr, Ross R. : *See*—
Bergy, Malcolm E., De Boer, Dietz, Eble, Herr, and Johnson. 3,027,300.

Herr, Ross R., T. Enkoji, and T. J. Bardos, to Armour Pharmaceutical Co. 5-uracilsulfonic acid derivatives. 3,048,589, 8–7–62, Cl. 260—256.5.

Herr, Roy W. Bean vine support stringer. 3,034,259, 5–15–62, Cl. 47—1.

Herr, Warren E., to Specialties Development Corp. Fluid motor throttle valve means responsive to motor exhaust pressure. 3,027,902, 4–3–62, Cl. 137—37.

Herrald, Arthur E., to Schlumberger Well Surveying Corp. Systems for inspecting material. 3,056,920, 10–2–62, Cl. 324—37.

Herreman, Robert A. Outboard motor manipulating mechanism. 3,039,724, 6–19–62, Cl. 248—4.

Herrick, Carlyle S. : *See*—
Schubert, Albert E., and Herrick. 3,019,614.

Herrick, Carlyle S., to General Electric Co. Production of silicon of improved purity. 3,020,129, 2–6–62, Cl. 23—223.5.

Herrick, Claude C., to United States of America, Atomic Energy Commission. Non-corrosive reactor fuel system. 3,049,481, 8–14–62, Cl. 204—154.2.

Herrick, Clifford E., Jr., to General Aniline & Film Corp. Method for improving the tonal gradation of diazotype materials using stratified sensitizing components and U.V. filters. 3,069,268, 12–18–62, Cl. 96—68.

Herrick, Clifford E., Jr., to F. J. Lafreniere, and D. Straw, to General Aniline & Film Corp. Receiving sheet for use in photographic silver transfer process. 3,015,562, 1–2–62, Cl. 96—29.

Herrick, Elbert C. : *See*—
Farkas, Adalbert, and Herrick. 3,038,903.

Herrick, Franklin W. : *See*—
Gray, Kenneth R., and Herrick. 3,062,783.

Herrick, Franklin W., and L. H. Bock, to Rayonier Inc. Resin composition containing alkali-bark product and phenol-formaldehyde resin, and method of preparation. 3,025,250, 3–13–62, Cl. 260—17.2.

Herrick, Franklin W., and L. H. Bock, to Rayonier Inc. Adhesive composition comprising sodium substituted bark derivative and sodium salt of polymethylol phenol. 3,053,-784, 9–11–62, Cl. 260—29.3.

Herrick, George H., R. H. Prescott, and F. R. Guido, to Fairbanks, Morse & Co. Motor and pump apparatus. 3,022,739, 2–27–62, Cl. 103—87.

Herrick, George J. : *See*—
Schoen, Walter A., and Herrick. 3,016,306.

Herrick, Paul E. : *See*—
Herrick, Samuel W. 3,046,034.

Herrick, Samuel W., ½ to P. E. Herrick. Canoe, boat, etc., carrier. 3,046,034, 7–24–62, Cl. 280—35.

Herridge, William G., Jr., to General Motors Corp. Safety fuel pump system. 3,068,364, 12–11–62, Cl. 307—10.

Herrin, Melvin B., to Regent Paper Box Co. Bevel stop for jewel boxes and the like. 3,042,192, 7–3–62, Cl. 206—45.19.

Herrin, Carl E. : *See*—
Stickney, Joseph B., Lemmermann, Herring, and Carlson. 3,070,695.

Herring-Cürle Tractor Co. : *See*—
Herring, William I., and Curle. 3,032,124.

Herring, David L., to United States of America, Navy. Preparation of 1,4-bis(diphenylphosphino)benzene. 3,064,-055, 11–13–62, Cl. 260—606.5.

Herring, Lee R. : *See*—
De Tuncq, Harold R., and Herring. 3,040,505.

Herring, Liles G., to Phillips Petroleum Co. Pelleted igniter composition and method of manufacturing same. 3,017,-300, 1–16–62, Cl. 149—41.

Herring, William I., and A. E. Curle, to Herring-Cürle Tractor Co. Hilling sweep. 3,032,124, 5–1–62, Cl. 172—642.

Herrington, Ervin W. Cathode ray picture tube test tool. 3,015,692, 1–2–62, Cl. 178—7.8.

Herrington, Joseph W. Thermal insulation composition and preformed fittings made therefrom. 3,025,176, 3–13–62, Cl. 106—98.

Herrington, W. J. Tree base stand. 3,045,959, 7–24–62, Cl. 248—47.

Herrle, Karl : *See*—
Fikentscher, Hans, and Herrle. 3,027,347.

Herring, Robert F. Composition for providing an effective water-vapor barrier on postage stamps and other adhesive surfaces. 3,033,692, 5–8–62, Cl. 106—2.

Herring, Robert F. Composition and method for removing postage stamps. 3,062,749, 11–6–62, Cl. 252—170.

Herrlinger, Richard : *See*—
Garber, Murray, Herrlinger, Albrecht, and Ciesielski. 3,038,945.

Herrman, Robert F., to General Dynamics Corp. Power line noise cancellation. 3,015,773, 1–2–62, Cl. 323—75.

Herrmann, Adolf L. Winding and reeling mechanism. 3,032,286, 5–1–62, Cl. 242—55.14.

Herrmann, Charles R. : *See*—
Feldmann, Fritz, Gehlhaar, Hermann, and Petre. 3,067,-682.

Herrmann, Edward M. Gate valve. 3,045,963, 7–24–62, Cl. 251—327.

Herrmann, Günter. Drive means for electrical apparatus. 3,016,208, 1–9–62, Cl. 242—55.12.

Herrmann, Günter, and E. Genning. Sound recording machines. 3,052,785, 9–4–62, Cl. 200—167.

Herrmann, John A. : *See*—
Farnsworth, George H., and Herrmann. 3,033,952.

Herrmann, John A., to I-T-E Circuit Breaker Co. Bus support means for low reactance bus duct. 3,044,036, 7–10–62, Cl. 339—22.

Herrmann, John A., R. S. Davis, R. L. Hickey, L. A. Wood, and W. C. Rauhauser, to I-T-E Circuit Breaker Co. Means for securing appliances to electric distribution duct. 3,066,-273, 11–27–62, Cl. 339—91.

Herrmann, Karl L. Friction reducing apparatus for cam engines. 3,016,110, 1–9–62, Cl. 184—6.

Herrmann, Kurt : *See*—
Niemann, Horst, and Herrmann. 3,030,178.

Herrmann, Ned C. : *See*—
Moffitt, Thomas L., and Herrmann. 3,019,311.

Herrmann, Oskar, to Patent-Treuhand-Gesellschaft fur Elektrische Glühlampen m.b.H. Exhaust machine for lamp and radio bulbs and the like. 3,021,878, 2–20–62, Cl. 141—65.

Herrmann, Richard C. : *See*—
Eilers, Carl G., Hendrickson, and Herrmann. 3,023,270.

Herrmann, Werner E., to Lockheed Aircraft Corp. Annular wing aircraft. 3,065,932, 11–27–62, Cl. 244—15.

Herrmann, Wolfgang: *See*—
Bauder, Josef, Steiner, Herrman, and Jahn. 3,024,308.
Herrod, Leonard G., to Ratby Engineering Co. Ltd. Structures incorporating section strut material. 3,031,087, 4–24–62, Cl. 211—136.
Herrod, Leonard G., to Ratby Engineering Co. Ltd. Constructional systems using section strut material. 3,068,-968, 12–18–62, Cl. 189—36.
Herron, Robert H., G. C. Reed, and D. J. Roth, to The Bendix Corp. Iron-molybdenum sintered powdered metal matrix. 3,021,592, 2–20–62, Cl. 29—182.5.
Herron, Robert H., J. W. Vogan, and D. M. Scruggs, to The Bendix Corp. High temperature antifriction seal, material, and method of manufacture. 3,055,769, 9–25–62, Cl. 117—46.
Herron, William L.: *See*—
Graham, Richard P., Herron, and Ketterer. 3,051,110.
Herschal Products, Inc.: *See*—
Young, Charles H. 3,048,150.
Herscher, Marvin B., to Radio Corp. of America. Delay circuit using magnetic cores and transistor storage devices. 3,018,389, 1–23–62, Cl. 307—88.5.
Herschler, Robert J., to Crown Zellerbach Corp. Process for modifying nylon containing fabric with a solution of anhydrous zinc chloride in a lower dialkyl sulfide and products produced thereby. 3,023,074, 2–27–62, Cl. 8—130.1.
Herschler, Robert J., J. S. Barton, and W. R. Works. Overlay sheet for woody board. 3,058,843, 10–16–62, Cl. 117—122.
Herschmann, Heinrich, to Siemens-Schuckertwerke Aktiengesellschaft. Induction heating apparatus. 3,059,083, 10–16–62, Cl. 219—10.75.
Herschmann, Richard, Radiotechnisches Werk: *See*—
Saupe, Otto, and Schöne. 3,025,088.
Hersey, Carl D.: *See*—
Way, Robert B., and Hersey. 3,039,431.
Hersey, John B., and S. T. Knott, to Woods Hole Oceanographic Institution. Method and apparatus for surveying water-covered areas. 3,065,815, 11–27–62, Cl. 181—.5.
Hersey, Ralph E., to Bell Telephone Laboratories, Inc. Line testing circuit. 3,064,090, 11–13–62, Cl. 179—175.25.
Hersh, Lloyd J., to Fuller Co. Gas-material separator. 3,044,244, 9–18–62, Cl. 55—94.
Hersh, Seymour L. Liquid actuated sealing means. 3,067,-758, 12–11–62, Cl. 134—114.
Hersh, Sidney: *See*—
Baller, Maurice H., Bole, Hersh, and Meekins. 3,064,537.
Johns, Charles A., Hersh, Meekins, and Shiller. 3,068,755.
Hersh, Solomon P., and C. Y. Meyers, to Union Carbide Corp. Crease proofing of cellulosic textile materials. 3,023,129, 2–27–62, Cl. 117—139.4.
Hersh, Solomon P., and G. W. Fowler, to Union Carbide Corp. Stabilized acrylonitrile vinyl or vinylidene copolymer solutions. 3,055,861, 9–25–62, Cl. 260—45.7.
Hershberger, Roman E. Car top sleeper. 3,018,782, 1–30–62, Cl. 135—1.
Hershenson, Harold, to Don Baxter, Inc. Container with closure having a retractable spout. 3,066,833, 12–4–62, Cl. 222—209.
Hershey, Harry L., to W. O. Hickok Mfg. Co. Sheet punching mechanism. 3,064,513, 11–20–62, Cl. 83—345.
Hershey, Melvin P., to The Firestone Tire & Rubber Co. Tubeless tire. 3,038,518, 6–12–62, Cl. 152—362.
Hershler, Abraham: *See*—
Hershler, Max A. 3,054,045.
Hershler, Max A., to A. Hershler, and S. Chessid. Electrical regulator. 3,054,045, 9–11–62, Cl. 323—91.
Herskowitz, Gerald J.: *See*—
Guarnieri, Joseph, Herskowitz, and Keigler. 3,026,765.
Herstedt, Adelbert C., to The Magnavox Co. Transistor circuit for producing a pulse output for each input signal peak. 3,017,521, 1–16–62, Cl. 307—88.5.
Herte, Paul, B. Springer, and A. Karwowski, to VEB Chemische Werke Buna, Processing of synthetic rubber of high plasticity. 3,023,513, 3–6–62, Cl. 34—24.
Hertel, Karl, Jutting tool with removable bit. 3,045,322, 7–24–62, Cl. 29—96.
Hertel, Kenneth L., to University of Tennessee Research Corp. Apparatus for taking samples of fibrous materials. 3,057,-019, 10–9–62, Cl. 19—65.
Hertel, Kenneth L., and H. G. Neil, to The University of Tennessee Research Corp. Fiber measurement. 3,065,664, 11–27–62, Cl. 88—14.
Herter, William J., to S.E.B. Establishment. Method of packing products and container therefor. 3,048,305, 8–7–62, Cl. 222—215.
Herther, William W., Jr., to Hawley Products Co. Acoustical diaphragm. 3,026,958, 3–27–62, Cl. 181—32.
Herty, Charles H., II, to Phillips Petroleum Co. Cooling solid propellant compositions during mixing. 3,053,709, 9–11–62, Cl. 149—19.
Hertz, Abraham, 15% to P. G. Herman. Self-sealing collapsible tubes. 3,063,601, 11–13–62, Cl. 222—213.
Hertz, Theodore M., and F. H. Young, to North American Aviation, Inc. Binary square root mechanization. 3,049,-296, 8–14–62, Cl. 235—158.
Hertzberg, H., & Son, Inc.: *See*—
Hertzberg, Ira. 3,064,379.
Hertzberg, Ira, to H. Hertzerg & Son, Inc. Artificial Christmas tree. 3,064,379, 11–20–62, Cl. 41—15.
Hertzberg, Martin: *See*—
Dessler, Alexander J., Vedder, and Hertzberg. 3,036,213.
Hertzberg, Samuel. Dry shavers having reinforced shearing means and debris collecting means. 3,031,755, 5–1–62, Cl. 30—41.
Hertzig, Frank S.: *See*—
Shattuck, Owen M. 3,061,719.
Herubel, Jean P., to N. Schlumberger & Cie. Advancing screw for gill box. 3,028,635, 4–10–62, Cl. 19—129.
Hervert, George L., and C. B. Linn, to Universal Oil Products Co. Alkylation of aromatic hydrocarbons. 3,050,570, 8–21–62, Cl. 260—671.
Hervert, George L., and C. B. Linn, to Universal Oil Products Co. Alkylation of aromatic hydrocarbons. 3,054,834, 9–18–62, Cl. 260—671.
Hervert, George L., and C. B. Linn, to Universal Oil Products Co. Alkylation of aromatic hydrocarbons. 3,054,835, 9–18–62, Cl. 260—671.
Hervert, George L., and C. B. Linn, to Universal Oil Products Co. Alkylation of aromatic hydrocarbons. 3,054,836, 9–18–62, Cl. 260—671.
Hervert, George L., and C. B. Linn, to Universal Oil Products Co. Alkylation of aromatic hydrocarbons. 3,068,301, 12–11–62, Cl. 260—671.
Hervey, Laurence R. B.: *See*—
Doggett, Roger H. Hervey, and Lanyon. 3,019,138.
Raphael, Thomas, and Hervey. 3,039,894.
Raphael, Thomas, and Hervey. 3,039,915.
Herwig, Walter: *See*—
Zeiss, Harold H., and Herwig. 3,033,878.
Herwig, William C.: *See*—
Koch, Gilbert H., Herwig, and Kissel. 3,044,879.
Herz, Arthur H.: *See*—
Allen, Frank D., Herz, and Kalenda. 3,062,654.
Herz, Arthur H., to Eastman Kodak Co. Photographic emulsions containing colloidal material and alkylene oxide polymers. 3,062,647, 11–6–62, Cl. 96—66.
Herz, Arthur H., and N. W. Kalenda, to Eastman Kodak Co. Substituted disulfides as antifoggants for silver halide emulsions. 3,043,696, 7–10–62, Cl. 96—108.
Herz, Arthur H., and F. D. Allen, to Eastman Kodak Co. Esters of thiosulfonic acids as antifoggants. 3,047,393, 7–31–62, Cl. 96—108.
Herz, Arthur H., and N. W. Kalenda, to Eastman Kodak Co. Substituted disulfides as antifoggants for silver halide emulsions. 3,057,725, 10–9–62, Cl. 96—109.
Herz, Josef E.: *See*—
Fried, Josef, and Herz. 3,022,296.
Fried, Josef, and Herz. 3,025,312.
Fried, Josef, and Herz. 3,042,690.
Fried, Josef, and Herz. 3,047,567.
Fried, Josef, and Herz. 3,050,536.
Fried, Josef, and Herz. 3,057,886.
Herz, Kurt J., to Herz Specialty Products, Inc. Garment cover. 3,034,552, 5–15–62, Cl. 150—52.
Herz Specialty Products, Inc.: *See*—
Herz, Kurt P. 3,034,552.
Herzberg, Ernst: *See*—
Grossimon, Gerd T., Herzberg, and Grossimon. 3,063,015.
Herzberg, Horst: *See*—
Nolte, Friedrich, Klug, Orthner, and Herzberg. 3,035,038.
Orthner, Ludwig. Herzberg, and Frey. 3,022,263.
Orthner, Ludwig, Herzberg, and Landauer. 3,022,276.
Herzberg, Roland J., to Ametek, Inc. Air gauge having adjustable blades. 3,037,373, 6–5–62, Cl. 73—37.9.
Herzegh, Frank, to The B. F. Goodrich Co. Method and apparatus for measuring tire thump. 3,060,733, 10–30–62, Cl. 73—146.
Herzer, Alfred E.: *See*—
Meier, Karl H. 3,017,545.
Herzfeld, Richard P., to Sound system for outdoor theaters. 3,023,308, 2–27–62, Cl. 250—6.
Herzfeld, Valerius E.: *See*—
Daniels, Howard L., Edstrom, and Herzfeld. 3,063,181.
Herzhoff, Peter, and H. Gref, to Agfa Aktiengesellschaft. Brush-coating machine having one or more oscillating brushes. 3,055,338, 9–25–62, Cl. 118—120.
Herzog, Gerald B., to Radio Corp. of America. Information handling device. 3,023,319, 2–27–62, Cl. 307—88.
Herzog, Gerald B., to Radio Corp. of America. Pulse counter type frequency detector. 3,048,789, 8–7–62, Cl. 329—107.
Herzog, Gerhard, to Texaco Inc. Radio-link system of seismic exploration. 3,062,315, 11–6–62, Cl. 181—.5.
Herzog, Hershel: *See*—
Ilavsky, Jan, and Herzog. 3,054,725.
Herzog, Milton W., to Delamere Co., Inc. Display container with insertion means for tubular articles. 3,027,001, 3–27–62, Cl. 206—45.31.
Herzog, Stephen H., to United States of America, Navy. Sealing means for rocket nozzles. 3,020,710, 2–13–62, Cl. 60—35.6.
Herzog, Stephen H., to United States of America, Navy. Plastic nozzle plate for missile motors. 3,048,970, 8–14–62, Cl. 60—35.6.
Herzog, Stephen H., to United States of America, Navy. Heat shield and nozzle seal for rocket nozzles. 3,052,090, 9–4–62, Cl. 60—35.6.
Herzog, Werner: *See*—
Eichler, Herbert, and Herzog. 3,056,314.
Hesco Parts Corp.: *See*—
Ensor, Clyde F., and Wilburn. 3,026,721.

Hesher, Neil R., and V. B. Porter, to Duo Marine, Inc. Catamaran boat hull construction. 3,067,711, 12–11–62, Cl. 114—66.5.

Hesidence, Arthur J. Practice putting apparatus. 3,038,-726, 6–12–62, Cl. 273—176.

Hesketh, James A., and H. Rubin; said Hesketh assor. to said Rubin. Playpen. 3,040,341, 6–26–62, Cl. 5—99.

Heslop, Moylen D., to Sylvania Electric Products, Inc. Random pulse discriminator circuit. 3,047,806, 7–31–62, Cl. 328—37.

Heslop, Robert N., N. Legg, J. F. Mawson, W. E. Stephen, and J. Wardleworth, to Imperial Chemical Industries Ltd. New dyestuffs and process for colouring textile materials therewith. 3,042,475, 7–3–62, Cl. 8—1.

Heslop, Robert N., and C. H. Reece, to Imperial Chemical Industries Ltd. Disulpho-1-amino-4(oxy-, thio-, or amino-substituted-mono halogenotriazinyl-amino-aryl- or arylazo-amino) anthraquinone dyestuffs. 3,065,191, 11–20–62, Cl. 260—153.

Hespenheide, Wilbur G., to Burroughs Corp. Method for producing magnetic materials. 3,047,475, 7–31–62, Cl. 204—43.

Hess, Anton: *See*—
Anderson, Frederick V., and Hess. 3,066,911.

Hess, Anton, and B. Barish, to Thompson Ramo Wooldridge Inc. Seal for rotary regenerator. 3,027,144, 3–27–62, Cl. 253—78.

Hess, Bernhard, R. Hosemann, and H. Warrikhoff, to Licentia Patent-Verwaltungs-G.m.b.H. Pocket dosimeter. 3,067,-331, 12–4–62, Cl. 250—83.3.

Hess, Christian H., to Deere & Co. Tractor draft load control system. 3,022,830, 2–27–62, Cl. 172—7.

Hess, Christian H., to Deere & Co. Tractor draft load control system. 3,022,831, 2–27–62, Cl. 172—7.

Hess, Christian H., and D. C. Horney, to Deere & Co. Hitch device. 3,043,228, 87–62, Cl. 172—272.

Hess, Clem H. and R. C. Trotline and holder therefor. 3,029,545, 4–17–62, Cl. 43—54.5.

Hess, Earl H., to General Cigar Co., Inc. Tobacco treatment and product therefrom. 3,020,179, 2–6–62, Cl. 131—17.

Hess, Frederic O., to Selas Corp. of America. Fiber blowing apparatus. 3,044,110, 7–17–62, Cl. 18—2.5.

Hess, Frederick G., and W. C. Bradbury, to Cities Service Research and Development Co. Stability of hydrocarbon distillate. 3,051,648, 8–28–62, Cl. 208—297.

Hess, Hans: *See*—
Rix, Albert, Marquardt, and Hess. 3,031,056.

Hess, Hans, to Olympia Werke AG. Line shifting control arrangement. 3,025,942, 3–20–62, Cl. 197—66.

Hess, Hans-Jurgen E.: *See*—
Figdor, Sanford K., Hess, and Laubach. 3,069,415.
Figdor, Sanford K., Hess, and Laubach. 3,069,416.

Hess, Hans-Jurgen E., S. K. Figdor, G. M. K. Hughes, and W. T. Moreland, to Chas. Pfizer & Co., Inc. 5α,21-dibromo-6β-fluoro-21-methyl-pregnanes and process for making same. 3,042,691, 7–3–62, Cl. 260—397.47.

Hess, Hans-Jurgen E., G. M. K. Hughes, and G. D. Laubach, to Chas. Pfizer & Co., Inc. Preparation of 21-methyl steroids and intermediates. 3,047,594. 7–31–62, Cl. 260—397.45.

Hess, Harvey C., to The Singer Mfg. Co. Circular stitching device for sewing machines. 3,046,918, 7–31–62, Cl. 112—2.

Hess, Howard V.: *See*—
Heisler, Robert Y., and Hess. 3,068,305.
Heisler, Robert Y., Hess, Eckert, and Ruidisch. 3,055,-934.

Hess, Irwin H., to American Cyanamid Co. Process for recovering water soluble polymers. 3,041,318, 6–26–62, Cl. 260—80.

Hess, Irwin H., and K. K. Kurtz, to American Cyanamid Co. Process for water soluble polymer recovery. 3,046,259, 7–24–62, Cl. 260—80.

Hess, James B. Exercising device and toy. 3,023,000, 2–27–62, Cl. 272—74.

Hess, John J., Jr., to Sperry Rand Corp. Aircraft automatic flight control apparatus. 3,070,332, 12–25–62, Cl. 244—77.

Hess, Kenneth H. Tree shaking device with reel means. 3,029,585, 4–17–62, Cl. 56—328.

Hess, Kurt: *See*—
Wegner, Christian, Hess, and Haberland. 3,026,333.

Hess, Lawrence G.: *See*—
Montagna, Amelio E., and Hess. 3,055,954.

Hess, Lester J.: *See*—
Long, Jasper, Hess, and Kennedy. 3,038,053.

Hess, Lester J., M. E. Kennedy, and J. Long, to Wade Electric Products Co. Socket. 3,027,537, 3–27–62, Cl. 339—191.

Hess, Paul, and R. C. Stieg; said Stieg assor. to said Hess. Projectile and target game. 3,026,110, 3–20–62, Cl. 273—106.

Hess, Paul, and R. C. Stieg; said Stieg assor. to said Hess. Adjustable and foldable tray. 3,050,355, 8–21–62, Cl. 311—22.

Hess, Paul D.: *See*—
Lee, Maurice F., Brondyke, and Hess. 3,025,155.

Hess, Paul D., to Allis-Chalmers Mfg. Co. Gate damping device. 3,060,706, 10–30–62, Cl. 64—28.

Hess, Paul D., K. J. Brondyke, and N. Jarrett, to Aluminum Co. of America. Treatment of molten light metals. 3,039,-864, 6–19–62, Cl. 75—67.

Hess, Paul S.: *See*—
Goldsmith, Robert, and Hess. 3,023,120.

Hess, Paul S., to General Plastics Corp. Method of making foundations for toupees. 3,037,261, 6–5–62, Cl. 28—74.

Hess, Raymond C.: *See*—
Hess, Clem H. and R. C. 3,029,545.

Hess, Richard C., to Westinghouse Air Brake Co. Electrical relay armature assembly. 3,061,765, 10–30–62, Cl. 317—198.

Hess, Robert M. Bite plane finder and former. 3,040,432, 6–26–62, Cl. 32—19.

Hess, Ronald H.: *See*—
Davidson, Raymond L., and Hess. 3,038,715.

Hesse, Earl J., and J. L. Margaroli, to George W. Ashlock Co. Date dicing machine. 3,042,093, 7–3–62, Cl. 146—78.

Hesse, Henry R., to International Telephone and Telegraph Corp. Collision course warning device. 3,040,314, 6–19–62, Cl. 343—17.1.

Hesse, Holger: *See*—
Ruben, Henning. 3,049,811.

Hesse, Kenneth R., and L. S. Yaggy, to Hughes Aircraft Co. Direct-view half-tone storage tube. 3,032,673, 5–1–62, Cl. 313—71.

Hesse, Rudolf: *See*—
Schaub, Franz, and Hesse. 3,058,513.

Hesse, Walter K., to Johns-Manville Corp. High cross velocity fiberization system. 3,045,279, 7–24–62, Cl. 18—2.6.

Hessel, Frederick A.: *See*—
Steckler, Robert, Werner, and Hessel. 3,061,650.

Hessel, Frederick A., to General Aniline & Film Corp. Process for improving injectivity in secondary oil recovery. 3,016,352, 1–9–62, Cl. 252—8.55.

Hessel, Frederick A., to General Aniline & Film Corp. Suppression of potato sprouting by the vapor of propargyl alcohol. 3,025,150, 3–13–62, Cl. 71—2.7.

Hessel, Frederick A., and F. J. Prescott, to General Aniline & Film Corp. Process for improving secondary oil recovery. 3,016,351, 1–9–62, Cl. 252—8.55.

Hesselink, Frans: *See*—
Levison, Robert, and Hesselink. 3,050,775.

Hesseltine, Clifford W.: *See*—
Benjamin, Chester R., Hendershot, and Hesseltine. 3,063,909.

Hessenthaler, Walter H., and H. M. Shappell, to Union Carbide Corp. Shear beaded wrapping material. 3,034,941, 5–15–62, Cl. 154—90.

Hesser, Fr. Maschinenfabrik-Aktiengesellschaft, Firma: *See*—
Bauder, Ulrich. 3,018,702.
Jungmayr, Theodor, and Lohse. 3,045,720.
Lohse, Paul. 3,017,731.
Paal, Hans. 3,048,952.
Schwinger, Heinrich. 3,035,938.
Schwinger, Heinrich. 3,067,863.
Stambera, Adolf. 3,049,268.

Hessinger, Philip S., and W. K. Haller, to Mycalex Corp. of America. Ceramoplastic. 3,024,118, 3–6–62, Cl. 106—39.

Hesslenberg, Werner, to Walther Technik Carl Kurt Walther. Treating apparatus. 3,045,397, 7–24–62, Cl. 51—7.

Hessler, Edward L.: *See*—
Lynch, John P., Osborn, and Hessler. 3,042,560.

Hessler, Erwin: *See*—
Bartholomäus, Werner, Hessler, and Naumann. 3,043,-412.

Hesson, James C., to Marmon-Herrington Co., Inc. Material breaking cartridge. 3,064,574, 11–20–62, Cl. 102—25.

Hestand, Eline S.: *See*—
Eyler, George, Winborne, and Hestand. 3,052,003.

Hester, Dwight H. Bottle top drinking cup. 3,021,977, 2–20–62, Cl. 220—90.4.

Hester, Dwight H. Liquid dispenser. 3,055,556, 9–25–62, Cl. 222—212.

Hester, Dwight H. Paper cans. 3,058,642, 10–16–62, Cl. 229—14.

Hester, Frank A., to Clairex Corp. Piezoelectric transducer for stereophonic phonograph pickup. 3,043,921, 7–10–62, Cl. 179—100.41.

Hester, Harry W., ½ to Robert H. Wendt. Endless cutting assembly. 3,034,276, 5–15–62, Cl. 56—291.

Hester, Woodrow. Plier-type arrow or shaft portable straightener. 3,034,385, 5–15–62, Cl. 81—15.

Heston, Eugene E., and W. M. Mundy, to National Rubber Machinery Co. Apparatus and method for extruding thermoplastic material. 3,036,335, 5–29–62, Cl. 18—12.

Het Spoorwegbouwbedrijf, N.V.: *See*—
Cuperus, Jacob L. A., and Kleijn. 3,067,546.

Hetherington & Berner Inc.: *See*—
Clay, Arthur T. 3,018,736.

Hetherington, James S.: *See*—
Basche, Malcolm, Comerford, Doyle, and Hetherington. 3,020,387.

Hetherington, Richard, to Rohm & Haas Co. Deionization unit with automatic shutoff operable upon exhaustion of resin's ion exchange capacity. 3,038,610, 6–12–62, Cl. 210—96.

Hetrick, George L., to Westinghouse Electric Corp. Collector ring structure. 3,059,203, 10–16–62, Cl. 339—5.

Hettinger, William P., Jr.: *See*—
Braithwaite, David G., McGrew, Hettinger, and D'Amico. 3,034,994.
Braithwaite, David G., McGrew, Hettinger, and D'Amico. 3,034,995.
Keith Carl D., and Hettinger. 3,042,627.
McGrew, Edwin H., and Hettinger. 3,061,555.
Thomas, Owen H., and Hettinger. 3,017,441.

Hetzel, Max, to Bulova Watch Co., Inc. Motion converter. 3,057,147, 10–9–62, Cl. 58—23.
Hetzel, Stanford J., to Sun Oil Co. Separation of phthalic acids. 3,043,869, 7–10–62, Cl. 260—525.
Hetzel, Stanford J., to Sun Oil Co. Separation of isophthalic acid from terephthalic acid. 3,043,870, 7–10–62, Cl. 260—525.
Hetzel, Stanford J., to Sun Oil Co. Refining aromatic carboxylic acids. 3,067,248, 12–4–62, Cl. 260—525.
Hetzler, Lewis R.: *See*—
Larson, Robert L., and Hetzler. 3,022,456.
Larson, Robert L., Hetzler, and Marks. 3,070,704.
Hetzler, Lewis R., to General Motors Corp. Electronic ignition circuit. 3,034,019, 5–8–62, Cl. 315—214.
Hetzler, Lewis R., and L. J. Sheldrake, to General Motors Corp. Regulator circuit for generators. 3,022,455, 2–20–62, Cl. 322—25.
Heubach, Erhard: *See*—
Korinth, Erich, and Heubach. 3,070,424.
Heublein, Inc.: *See*—
Jacobs, Frederick L., and Prochaska. 3,061,438.
Heuboski, Walter J.: *See*—
Milgrom, Hymen T., and Heuboski. 3,036,570.
Heuchling, Theodore P.: *See*—
Pease, William M., and Heuchling. 3,050,668.
Heuck, Claus, F. Rochlitz, H. Schmidt, H. Vilcsek, and J. Winter, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Phosphorus-containing polycondensation resins and process for preparing them. 3,070,578, 12–25–62, Cl. 260—75.
Heuckeroth, Curt, to Rowenta Metallwarenfabrik G.m.b.H. Percolator. 3,031,947, 5–1–62, Cl. 99—283.
Heuer, Arthur, to Didier-Werke A.G. Hot-blast stoves. 3,033,544, 5–8–62, Cl. 263—19.
Heuer, Charles A., to Olin Mathieson Chemical Corp. Fabrication of hollow articles. 3,020,633, 2–13–62, Cl. 29—421.
Heuer, Charles A., to Olin Mathieson Chemical Corp. Metal fabrication. 3,052,964, 9–11–62, Cl. 29—157.3.
Heuer, Charles A., and N. A. Keith, to Olin Mathieson Chemical Corp. Heat exchangers. 3,046,758, 7–31–62, Cl. 62—426.
Heuer, Charles H., to Zenith Radio Corp., Color television. 3,019,401, 1–30–61, Cl. 333—77.
Heuer, Charles H., to Zenith Radio Corp. Color television receiver color balance control. 3,059,140, 10–16–62, Cl. 315—13.
Heuer, Ed., & Co. SA.: *See*—
Heuer, Hubert B. 3,045,418.
Heuer, Hans: *See*—
Breitling, Wilhelm, and Heuer. 3,059,845.
Heuer, Hubert B., to Ed. Heuer & Co. SA. Time meter. 3,045,418, 7–24–62, Cl. 58—74.
Heuer, Russell P., to General Refractories Co. Basic refractory brick. 3,034,457, 5–15–62, Cl. 110—99.
Heuer, Russell P., to General Refractories Co. Basic refractory brick. 3,036,925, 5–29–62, Cl. 106—59.
Heuer, Russell P., to General Refractories Co. Refractory brick and process. 3,042,534, 7–3–62, Cl. 106—58.
Heuer, Russell P., to General Refractories Co. Refractory brick and method of molding. 3,051,101, 8–28–62, Cl. 110—99.
Heuer, Russell P., to General Refractories Co. Brick package. 3,063,767, 11–13–62, Cl. 312—31.
Heuer, Russell P., to General Refractories Co. Refractory roof. 3,064,594, 11–20–62, Cl. 110—99.
Heumann, Walter E., to Esso Research and Engineering Co. Isotactic polypropylene melt spinning process. 3,054,652, 9–18–62, Cl. 18—54.
Heupel, H. W.: *See*—
Wild, John J., and Heupel. 3,070,092.
Heusch, Rudolf, and B. Homeyer, to Farbenfabriken Bayer Aktiengesellschaft. Nematocide. 3,070,491, 12–25–62, Cl. 167—22.
Heuschkel, Hans, to Escher Wyss G.m.b.H. Electrostatic spraying apparatus. 3,045,921, 7–24–62, Cl. 239—132.
Heuschkel, Hans, to Escher Wyss G.m.b.H. Electrostatic spraying of atomized material. 3,049,301, 8–14–62, Cl. 239—15.
Heuser, Helmut C., to Bokum Tool Co., Inc. Tool holder. 3,025,729, 3–20–62, Cl. 77—58.
Heuser, Leon J.: *See*—
Perlman, David, and Heuser. 3,028,311.
Heusler, Karl: *See*—
Reichstein, Tadeus, Wettstein, Anner, Billeter, Heusler, Neher, Schmidlin, Ueberwasser, and Wieland. 3,033,858.
Reichstein, Tadeus, Wettstein, Anner, Billeter, Heusler, Neher, Schmidlin, Ueberwasser, and Wieland. 3,035,049.
Wettstein, Albert, Anner, Heusler, Kalvoda, and Ueberwasser. 3,067,198.
Wettstein, Albert, Anner, Heusler, and Wieland. 3,056,779.
Wettstein, Albert, Anner, Meystre, Wieland, Ehmann, Heusler, Hunger, and Kebrle. 3,026,340.
Wettstein, Albert, Anner, Meystre, Wieland, Ehmann, Heusler, Hunger, and Kebrle. 3,033,881.
Wettstein, Albert, Anner, Meystre, Wieland, Ehmann, Heusler, Hunger, and Kebrle. 3,040,072.
Wettstein, Albert, and Heusler. 3,026,336.
Wettstein, Albert, Heusler, and Wieland. 3,040,039.
Heusser, Hans: *See*—
Ruzicka, Leopold, and Heusser. 3,040,067.
Heusser, Jean, to Hommel, S.A. Combatting pathogenic organisms by means of N-hydroxymethylamino compounds. 3,068,146, 12–11–62, Cl. 167—60.
Hevi-Duty Electric Co.: *See*—
Kusko, Alexander. 3,022,426.
Hewes, Ellsworth D., and L. K. Brownell, to Consolidated Machine Tool Division of Farrel-Birmingham Co., Inc. Drill grinder. 3,057,122, 10–9–62, Cl. 51—125.
Hewett, Colin L., to Organon Inc. New 16-heterocyclic amino steroids. 3,026,318, 3–20–62, Cl. 260—239.5.
Hewett, William A.: *See*—
Calhoun, George M., and Hewett. 3,041,283.
Calhoun, George M., and Hewett. 3,041,284.
Calhoun, George M., and Hewett. 3,052,657.
Hewins, Thomas F. Magnetic force welding apparatus. 3,015,714, 1–2–62, Cl. 219—95.
Hewit, Leroy H., to Amco Aluminum Corp. Window unit. 3,057,023, 10–9–62, Cl. 20—55.
Hewitt, Donald R. Glass and cement block machine. 3,028,651, 4–10–62, Cl. 25—41.
Hewitt, Ellis E.: *See*—
Olson, Paul E., and Hewitt. 3,048,675.
Hewitt, Ellis E., to Westinghouse Air Brake Co. Single pipe brake control system for automotive trailers. 3,022,116, 2–20–62, Cl. 303—28.
Hewitt, Ellis E., to Westinghouse Air Brake Co. Brake control apparatus with quick service means. 3,022,117, 2–20–62. Cl. 303—39.
Hewitt, Ellis E., to Westinghouse Air Brake Co. Multi-position power cylinder and control means therefor. 3,035,549, 5–22–62, Cl. 121—38.
Hewitt, Ellis E., to Westinghouse Air Brake Co. Control system embodying vibration responsive valve device. 3,043,321, 7–10–62, Cl. 137—46.
Hewitt, Ellis E., to Westinghouse Air Brake Co. Automatic engine governor and compressor unloader apparatus. 3,043,495, 7–10–62, Cl. 230—3.
Hewitt, John C., Jr., to Robertshaw-Fulton Controls Co. Control device. 3,068,333, 12–11–62, Cl. 200—87.
Hewitt, John C., Jr., to Robertshaw-Fulton Controls Co. Heat actuated snap acting valve. 3,069,125, 12–18–62, Cl. 251—11.
Hewitt, John J., to Olin Mathieson Chemical Corp. Lead salts of substituted propionic acid. 3,037,997, 6–5–62, Cl. 260—435.
Hewitt, Maurice C. P., and D. P. Lambert, to International Computers and Tabulators Ltd. Electrical accumulators for use with record controlled statistical machines. 3,031,138, 4–24–62, Cl. 235—133.
Hewitt, Robert B. Velocipede with two rear caster wheels. 3,062,559, 11–6–62. Cl. 280—202.
Hewitt-Robins Inc.: *See*—
Dischinger, Henry F. 3,069,027.
Donadio, Vincent J. 3,070,219.
Lippmann, Arthur W. 3,039,609.
Olender, Francis B. 3,042,206.
Skinner, Clayton H. 3,048,256.
Hewitt, Ronald G.: *See*—
Johnston, Peter W. G., and Hewitt. 3,063,391.
Hewitt, William H., Jr., to Bell Telephone Laboratories, Inc. Slotted waveguide antenna. 3,016,535, 1–9–62, Cl. 343—787.
Hewlett-Packard Co.: *See*—
Bagley, Alan S., and Rawlins. 3,039,685.
Boff, Albert F. 3,040,273.
Cochran, David S. 3,041,535.
Cutler, Leonard S., Bagley, and Bodily. 3,040,158
Forge, Charles O. 3,040,265.
Siegel, Floyd G. 3,040,206.
Van Duzer, Victor E. 3,040,186.
Wunderman, Irwin. 3,040,241.
Youngman, Edward A., and Hewett. 3,041,321.
Hewson, Carl E. Inflatable heart massager. 3,034,501, 5–15–62, Cl. 128—39.
Hewson, Robert L., and F. D. Waterfall, to Imperial Chemical Industries Ltd. Fused salt baths for heat treatment of Ti & Ti alloys. 3,053,705, 9–11–62, Cl. 148—28.
Hexacon Electric Co.: *See*—
Johnson, Arthur L. 3,023,295.
Hexcel Products Inc.: *See*—
Steele, Roger C. 3,018,087.
Van Der Meer, Adolf J., and Kline. 3,030,492.
Wentworth, Clinton H., and Wallner. 3,044,921.
Hexdall, Andrew M. Heat storage units. 3,060,870, 10–30–62, Cl. 110—97.
Heya, Yoshiteru: *See*—
Matsubara, Yoshiharu, Heya, and Aizawa. 3,041,381.
Heyden Newport Chemical Corp.: *See*—
Dege, August W. 3,037,060.
Di Bella, Eugene P. 3,037,054.
Girard, Theodore A., and Slaght. 3,048,608.
Sidi, Henri. 3,069,461.
Sidi, Henri. 3,069,475.
Stewart, William J., and Girard. 3,036,022.
Stump, Joseph H., Jr., and Wilson. 3,038,906.
Heyden, Rudi: *See*—
Plapper, Jürgen, Heyden, and Böhme. 3,023,073.
Heyden, Rudi, and J. Plapper, to Böhme Fettchemie G.m.b.H. Process for waterproofing leather. 3,019,133, 1–30–62, Cl. 117—142.

Heydon, John J., and W. P. Taylor. Liquid dispenser. 3,032,-055, 5–1–62, Cl. 137—212.
Heyer, Don, to M and H Industries. Hinge construction. 3,068,508, 12–18–62, Cl. 16—168.
Heyer Inc.: *See*—
Springer, Edward M. 3,029,074.
Springer, Edward M. 3,063,711.
Heyer, Walter E.: *See*—
Mescher, Harold E., and Heyer. 3,035,819.
Heyer, William T. Stereotaxy device. 3,017,887, 1–23–62, Cl. 128—348.
Heyer, William T. Surgical drain. 3,020,913, 2–13–62, Cl. 128—350.
Heying, Theodore L.: *See*—
Clark, Sheldon L., and Heying. 3,030,185.
Faust, John P., Fogle, and Heying. 3,030,184.
Heying, Theodore L., to Olin Mathieson Chemical Corp. Preparation of decaboranyl sodium. 3,066,009, 11–27–62, Cl. 23—14.
Heyl & Patterson, Inc.: *See*—
Mileler, Francis G 3,048,272.
Heyl, Russell G., Jr.: *See*—
Flint, Hyland C., and Heyl. 3,055,653.
Heyl, Russell G., Jr., and R. J. Williams, to American Metal Products Co. Spring cushion construction. 3,036,827. 5–29–62, Cl. 267—90.
Heyl, Russell G., Jr., and R. K. McLean, to American Metal Products Co. High load capacity seat construction. 3,061,-372, 10–30–62, Cl. 297—309.
Heymes, Rene: *See*—
Amiard, Gaston, Goffinet, Heymes, Martel, and Velluz. 3,035,064.
Amiard, Gaston, and Heymes. 3,018,293.
Amiard, Gaston, and Heymes. 3,033,863.
Amiard, Gaston, and Heymes. 3,052,697.
Amiard, Gaston, Martel, Heymes, and Velluz. 3,024,271.
Heymons, Albrecht, and W. Schnabel, to Riedel-de Haen Aktiengesellschaft. Fungicidal compositions and process for the preparation thereof. 3,047,460, 7–31–62, Cl. 167—33.
Heyn, Friedbert: *See*—
Jacobs, Heinz, Claesgens, and Heyn. 3,039,744.
Heyniger, William L., to The Garrett Corp. Inflatable escape chute. 3,018,867, 1–30–62, Cl. 193—25.
Heyns, Ockert S. Method and apparatus for facilitating the processes of parturition. 3,062,215, 11–6–62, Cl. 128—361.
Heyser, Richard C., to California Institute Research Foundation. Self-biasing transistor amplifier. 3,035,233, 5–15–62, Cl. 330—24.
Heyser, Richard C., to California Institute Research Foundation. Transistor amplifier. 3,050,688, 8–21–62, Cl. 330—24.
Heywang, Walter: *See*—
Schöfer, Rudolf, Heywang, and Fenner. 3,027,529.
Heywood, Donald L.: *See*—
Dunn, Jesse T., and Heywood. 3,046,308.
Dunn, Jesse T., and Heywood. 3,048,624.
Dunn, Jesse T., and Heywood. 3,062,824.
Heywood, Vincent E., and H. J. Ruggeri, to United States Envelope Co. Manufacture of quick-opening envelopes or bags. 3,069,982, 12–25–62, Cl. 93—63.
Heywood-Wakefield Co.: *See*—
Hendrickson, Severin B., and Radigan. 3,055,783.
Hezarfiend, Roger J., to General Controls Co. Manometers. 3,023,622, 3–6–62, Cl. 73—401.
Hi, Louis, to Societe Anonyme de Construction de Material d'Alimentation. Machines for washing bottles and like containers. 3,043,318, 7–10–62, Cl. 134—104.
Hib-Singer, Inc.: *See*—
Wellington, Arthur M. and T. C., and Bruce. 3,057,082.
Hibbard, Billy B., to The Dow Chemical Co. Process for preparing transparent compositions from styrene, methyl methacrylate and rubbery copolymers of styrene and butadiene and resinous products thereof. 3,029,223, 4–10–62, Cl. 260—45.5.
Hibbard, Billy B., and D. D. Weage, to The Dow Chemical Co. Copolymers of maleic anhydride with N-vinyl-cyclic carbamates. 3,044,992, 7–17–62, Cl. 260—77.5.
Hibbard, Earl R.: *See*—
Smith, Grant M., and Hibbard. 3,059,052.
Hibbard, George J.: *See*—
Berger, Harold S. 3,044,186.
Hibbard, Haines C., to Jersey Production Research Co. Seismic transcribing system. 3,041,610, 6–26–62, Cl. 346—33.
Hibbard, Oscar L., and E. F. Stoddard, to International Business Machines Corp. Program device. 3,025,368, 3–13–62, Cl. 200—46.
Hibbard, Thomas L., to Kelsey-Hayes Co. Variable tread wheel. 3,037,815, 6–5–62, Cl. 301—1.
Hibbard, Thomas L., to Kelsey-Hayes Co. Wheel and brake drum assembly. 3,049,379, 8–14–62, Cl. 301—6.
Hibbard, Thomas L., and C. W. Sinclair, to Kelsey-Hayes Co. Liquid cooled brake. 3,061,053, 10–30–62, Cl. 188—264.
Hibbard, Walter R. Gun hanger. 3,045,832, 7–24–62, Cl. 211—64.
Hibberd, Frederick H. Apparatus for handling boats. 3,045,-839, 7–24–62, Cl. 214—1.
Hibbert, Virgil B. Hay stack feeder. 3,030,920, 4–24–62, Cl. 119—60.
Hibbert, William, and J. W. Bunting, to Courtaulds Ltd. Cellulose xanthate. 3,033,000, 5–8–62, Cl. 60—97.
Hibbitts, Kermit: *See*—
Johnson, James V., Jr., Groppe, Hibbitts, and Phillips. 3,019,574.
Hibbs, George W., and K. Glenn. Cap for spray dispenser, or the like. 3,058,626, 10–16–62, Cl. 222—182.
Hibnick, Herbert E.: *See*—
Brunner, Matthew J., Finkelstein, and Hibnick. 3,019,-162.
Hibscher, Carl W., to Toledo Scale Corp. Weight lifter for weighing scales. 3,027,956, 4–3–62, Cl. 177—203.
Hibshman, Henry J., R. A. Louis, and I. F. Wagner, to Esso Research and Engineering Co. Asphalt mulch application in low rainfall areas. 3,061,975, 11–6–62, Cl. 47—9.
Hiby, Friedrich K. Variable speed gears. 3,064,498, 11–20–62, Cl. 74—796.
Hichman, Richard W., to Industrial Nucleonics Corp. Recording of sheet material measurement data. 3,065,466, 11–20–62, Cl. 346—1.
Hickerson, John E., to International Business Machines Corp. Code converting mechanism. 3,044,690, 7–17–62, Cl. 234—69.
Hickerson, John E., to International Business Machines Corp. Typewriter tape punch with automatic letters-figures shift. 3,050,241, 8–21–62, Cl. 234—23.
Hickey, Frank D., to FMC Corp. Method of sterilizing. 3,035,886, 5–22–62, Cl. 21—57.
Hickey, John J.: *See*—
Clark, George L., and Hickey. 3,027,515.
Hickey, Robert L.: *See*—
Herrmann, John A., Davis, Hickey, Wood, and Rauhauser. 3,066,273.
Hickin, Robert J.: *See*—
Steele, Gerald H., and Hickin. 3,037,609.
Hicklin, Robert J., to Packaging Corp. of America. Cornerlock carton. 3,037,680, 6–5–62, Cl. 229—35.
Hicklin, Walter H.: *See*—
Belser, Richard B., and Hicklin. 3,048,912.
Hickman, Albert F., to Hickman Developments, Inc. Tandem axle spring suspension. 3,017,195, 1–16–62, Cl. 280—104.5.
Hickman, Albert F., to Bostrom Corp. Resilient seat structure. 3,036,805, 5–29–62, Cl. 248—373.
Hickman, Albert F., to Hickman Developments, Inc. Vehicle spring suspension. 3,050,300, 8–21–62, Cl. 267—63.
Hickman, Albert F. Spring suspension for tandem axle vehicles. 3,069,184, 12–18–62, Cl. 280—104.5.
Hickman, Charles R., ¼ to J. E. Parish, and ¼ to R. W. Parish. Collapsible fluid tight transport tank for a vehicle body. 3,025,073, 3–13–62, Cl. 280—5.
Hickman Developments, Inc.: *See*—
Hickman, Albert F. 3,017,195.
Hickman, Albert F. 3,050,300.
Hickman, Kenneth C. D., to Rochester Institute of Technology. Method of producing high vacuum. 3,034,700, 5–15–62, Cl. 230—101.
Hickman, Kenneth C. D. Heat exchange. 3,062,516, 11–6–62, Cl. 261—22.
Hickok Electrical Instrument Co., The: *See*—
Wise, David S. 3,032,708.
Hickok Mfg. Co., Inc.: *See*—
Clement, George H. 3,044,605.
Meeker, William H. 3,020,612.
Salter, Douglas R., and Brown. 3,063,118.
Hickok, W. O., Mfg. Co.: *See*—
Hershey, Harry L. 3,064,513.
Hickory Spinners, Inc.: *See*—
Finger, Charles E., and Schoonderwoerd. 3,064,791.
Hickox, Barbara J. Pole-mounted superposed compartments. 3,047,348, 7–31–62, Cl. 312—202.
Hicks, Beatrice A. Device for sensing gas density. 3,046,369, 7–24–62, Cl. 200—83.
Hicks, Bruce C., and W. Miles. Spark gap devices. 3,047,-703, 7–31–62, Cl. 315—36.
Hicks, Darrell D., to Devoe & Raynolds Co., Inc. Coating composition comprising a heat curable liquid polymer of butadiene and an aluminate ester. 3,025,258, 3–13–62, Cl. 260—33.6.
Hicks, Donald K.: *See*—
Drake, Bernard, and Hicks. 3,047,816.
Hicks, Emery A. Record repeating attachment for phonograph. Re. 25,197, 7–10–62, Cl. 274—14.
Hicks, Frederick W., Jr., to Air Valves Co. Valve assembly. 3,017,901, 1–23–62, Cl. 137—622.
Hicks, Freeman L. Cable reel handling apparatus. 3,067,966, 12–11–62, Cl. 242—86.5.
Hicks, Gilbert, Jr.: *See*—
Martin, Frank S., Kohrn, and Hicks. 3,041,220.
Hicks, Harry F., Jr., to United States of America, Navy. Hemispherical scanning system. 3,023,662, 3–6–62, Cl. 88—1.
Hicks, James M. Throttle control. 3,044,267, 7–17–62, Cl. 60—54.5.
Hicks, John E., and J. E. Sigler, to Texas Instruments Inc. Method and apparatus for preventing breakage of liners. 3,041,133, 6–26–62, Cl. 23—1.
Hicks, John W., Jr., to American Optical Co. Fiber optical field flattening devices. 3,033,071, 5–8–62, Cl. 88—1.
Hicks, John W., Jr., to American Optical Co. Fiber optical image transfer devices. 3,043,910, 7–10–62, Cl. 178—7.85.
Hicks, John W., Jr., to American Optical Co. Light-conducting fibers. 3,060,789, 10–30–62, Cl. 88—1.
Hicks, John W., Jr., and W. P. Bazinet, Jr., to American Optical Co. Method for shaping a fiber optical device. 3,050,907, 8–28–62, Cl. 49—84.

Hicks, John W., Jr., and M. L. Polanyi, to American Optical Co. Flexible optical probe. 3,068,739, 12–18–62, Cl. 88—1.
Hicks, John W., Jr., and M. L. Polanyi, to American Optical Co. Means for performing colorimetry. 3,068,742, 12–18–62, Cl. 88—14.
Hicks & Otis Prints, Inc.: *See*—
Miller, Philip. 3,070,476.
Hicks, Robert G., to American Air Filter Co., Inc. Apparatus for heating air. 3,017,877, 1–23–62, Cl. 126—110.
Hicks, Robert G., to American Air Filter Co., Inc. Air heating apparatus and control means therefor. 3,051,161, 8–28–62, Cl. 126—110.
Hicks, Robert G., to American Air Filter Co., Inc. Liquid fuel burner. 3,051,229, 8–28–62, Cl. 158—91.
Hicks, William R., to General Electric Co. Electrical plug receptacle structure. 3,025,490, 3–13–62, Cl. 339—119.
Hicks, William T.: *See*—
Crosby, Charles H., Dzugan, Hicks, and Wahlberg. 3,029,959.
Crosby, Charles H., Hicks, Pizzi, and Wahlberg. 3,023,877.
Crosby, Charles H., Hicks, Wahl, and Wahlberg. 3,026,010.
Crosby, Charles H., Hicks, and Wahlberg. 3,017,450.
Hicks, William T., to Western Electric Co., Inc. Color coded telephone cable. 3,031,524, 4–24–62, Cl. 174—112.
Hicks, William W., deceased (Wells Fargo Bank American Trust Co. and E. P. Kaysen, executors), and J. C. Beckett, to J. C. Beckett. Ion controlled inhaling device. 3,070,-100, 12–25–62, Cl. 128—200.
Hicks, Willie G., to Gar Wood Industries, Inc. Convertible flat bed and hopper body for vehicle. 3,037,807, 6–5–62, Cl. 296—10.
Hickson & Welch Ltd.: *See*—
Adams, Dennis A. W., and Sarkar. 3,048,584.
Adams, Dennis A. W., and Sarkar. 3,063,994.
Hico Corp. of America: *See*—
De la Rambelje, Henry A. 3,045,786.
De la Rambelje, Henry A. 3,054,486.
Hida, Yozo, to Koyo Seiko Co. Ltd. Ornamental stitch sewing machine. 3,034,462, 5–15–62, Cl. 112—158.
Hidde Nijland, Hendrik A., to "COQ", N.V. Driving mechanisms for electric circuit-breakers. 3,062,934, 11–6–62, Cl. 200—82.
Hidding, Walter. Tube clamp. 3,042,067, 7–3–62, Cl. 137—315.
Hider, Theodore M., J. J. Rennilson, and R. A. Frech, to General Dynamics Corp. Electronic printer. 3,047,871, 7–31–62, Cl. 346—110.
Hidy, John H., to Seismograph Service Corp. Recording and reproducing apparatus for seismic reflection mapping. 3,042,898, 7–3–62, Cl. 340—15.
Hidy, Phil H.: *See*—
McCutchan, Winfred N., and Hidy. 3,061,521.
Hieber, Walter, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Complex cobalt-organo compounds containing carbon monoxide and their production. 3,031,462, 4–24–62, Cl. 260—340.6.
Hieger, Robert H. Carburetor float clip. 3,026,900, 3–27–62, Cl. 137—444.
Hierholzer, Frank J., Jr., and B. Christensen, to Westinghouse Electric Corp. Current control apparatus for a load device. 3,023,357, 2–27–62, Cl. 323—66.
Hierholzer, Frank J., Jr., and P. F. Pittman, to Westinghouse Electric Corp. Inverter network. 3,059,191, 10–16–62, Cl. 331—113.
Hieronymus, John W., to The Johnson Corp. Syphon pipe structure. 3,034,225, 5–15–62, Cl. 34—125.
Hiersch, Frederick A., to Continental Aviation and Engineering Corp. Heat exchanger. 3,034,770, 5–15–62, Cl. 257—245.
Hiersch, Frederick A., to Continental Motors Corp. Noise suppressed fan structure. 3,058,528, 10–16–62, Cl. 170—159.
Hiestand, Armin, to Ciba Ltd. Hardenable water dispersible aminoplast compositions. 3,023,176, 2–27–62, Cl. 260—21.
Hiestand, Armin, to Ciba Ltd. Process for preparing amino carbamides. 3,055,924, 9–25–62, Cl. 260—404.5.
Hiestand, Armin, and A. Maeder. Process for finishing fibrous materials, and compositions for use therein. 3,057,675, 10–9–62, Cl. 8—116.2.
Hiestand, Harry R., and J. M. Quinn, to E. I. du Pont de Nemours and Co. Stabilizing polyvinyl chloride with terpenes and organometallic carboxylic acid salts. 3,054,771, 9–18–62, Cl. 260—23.
Higashi, Paul: *See*—
Howes, Royal E., and Higashi. 3,027,546.
Higashiuchi, Kazuo: *See*—
Ferrari, Charles G., and Higashiuchi. 3,047,406.
Higatsberger, Michael J., to Osterreichische Studiengesellschaft fur Atomenergie Ges.m.b.H. Method for separating electrically charged particles. 3,040,173, 6–19–62, Cl. 250—41.9.
Higbee, Earl V., to The Stanley Works. Universal saw blade. 3,017,908, 1–23–62, Cl. 143—133.
Higbee, William E. Surface coating compositions. 3,053,-676, 9–11–62, Cl. 106—148.
Higbie Mfg. Co.: *See*—
Wood, Morris E. 3,029,040.
Higginbotham, Daniel K. Razor blade cutter device and guard therefor. 3,015,887, 1–9–62, Cl. 30—162.
Higginbotham, John W., to Martin-Marietta Corp. D.C.-A.C. transistor amplifier. 3,042,875, 7–3–62, Cl. 330—17.
Higginbotham, John W., to Martin-Marietta Corp. Electrical timing circuit. 3,049,627, 8–14–62, Cl. 307—88.5.
Higginbottom, Richard P. Apparatus for providing supplementary heat and moisture in textile steam processing chambers. 3,024,636, 3–13–62, Cl. 68—5.
Higgins, Charles A., and G. L. King, to Radio Frequency Laboratories, Inc. Teleprinter system. 3,037,078, 5–29–62, Cl. 178—70.
Higgins, Edward F. Impact absorbing protector for internally threaded pipe ends. 3,056,427, 10–2–62, Cl. 188—96.
Higgins, Francis J.: *See*—
Davis, Charles T., and Higgins. 3,061,456.
Higgins, Francis J., to Continental Oil Co. Process for preparing microcrystalline wax. 3,065,164, 11–20–62, Cl. 208—31.
Higgins, Frank W.: *See*—
Goodhue, William V., and Higgins. 3,044,722.
Higgins, Inc.: *See*—
Huet, George O. 3,040,687.
Higgins, Irwin R.: *See*—
Blanco, Raymond E., and Higgins. 3,065,044.
Higgins, James R.: *See*—
Stephens, Joseph F., Higgins, and Haynes. 3,020,192.
Higgins, James R. Collapsible tent frames. 3,044,477, 7–17–62, Cl. 135—2.
Higgins, John, to Brunswick Corp. Hypodermic needle mount. 3,043,304, 7–10–62, Cl. 128—218.
Higgins, John V., to Owens-Illinois Glass Co. Package construction for glassware and similar articles. 3,061,089, 10–30–62, Cl. 206—65.
Higgins, Larry L., and C. O. Mallinckrodt, to Thompson Ramo Wooldridge Inc. Radio direction finding system. 3,068,-474, 12–11–62, Cl. 343—113.
Higgins, Lawrence N.: *See*—
Rockett, Charles W., Higgins, and Terp. 3,047,857.
Higgins, Lee J., Jr., to Gustin-Bacon Mfg. Co. Fiber drawing apparatus. 3,022,020, 2–20–62, Cl. 242—18.
Higgins, Ralph G., Jr.: *See*—
Allman, William T., Jr., Higgins, and Underwood. 3,068,873.
Higgins, Robert H.: *See*—
Griffiths, Herbert D., Higgins, and Studdiford. 3,040,254.
Higgins, Stephen P., Jr., to Minneapolis-Honeywell Regulator Co. Electrical apparatus. 3,034,051, 5–8–62, Cl. 324—73.
Higgins, Thair L.: *See*—
Carlson, George J., Dong, Higgins, and Wilcoxen. 3,066,-127.
Higgins, Thair L., and C. H. Wilcoxen, Jr., to Shell Oil Co. Process for polymerizing diolefins in the presence of allene or dimethyl acetylene. 3,068,217, 12–11–62, Cl. 260—94.3.
Higgins, Theodore S., and G. S. Anderson, to Draper Corp. Bobbin conditioning machine. 3,037,715, 6–5–62, Cl. 242—18.
Higgins, Thomas C., to Imperial Chemical Industries Ltd. Production of highly polymeric polymethylene terephthalates. 3,054,776, 9–18–62, Cl. 260—75.
Higgins, Thomas W., L. Capsuto, and P. F. Bruins, to Polytechnic Institute of Brooklyn. Battery separators and method for producing the same. 3,018,316, 1–23–62, Cl. 136—144.
Higgins, William T., to Union Carbide Corp. Method of preparing insulated electrical conductors. 3,068,532, 12–18–62, Cl. 18—59.
High, Alan V., T. J. Orner, and L. C. Rittenhouse, to Owens-Corning Fiberglas Corp. Strand package and method for forming same. 3,062,481, 11–6–62, Cl. 242—165.
Higham, Edward H., to Unilever Ltd. Apparatus for controlling dictating machines. 3,046,338, 7–24–62, Cl. 179—2.
Higham, Peter J.: *See*—
Easter, John W., and Higham. 3,059,552.
Highberg, Alvin: *See*—
Tangjerd, Maurice F. 3,064,993.
Highfield, Frank W. W., and R. W. Brierley, to The Austin Motor Co. Ltd. and Hivac Ltd. Electrical signalling circuits suitable for the automatic control of machining operations. 3,037,607, 6–5–62, Cl. 198—19.
Highland Supply Corp.: *See*—
Oswald, Otto A. B., and Weder. 3,030,720.
Osswald, Hannes E. and O. A. B. 3,044,438.
Highleyman, Wilbur H., to Bell Telephone Laboratories, Inc. Function generators. 3,047,747, 7–31–62, Cl. 307—108.
High Standard Mfg. Corp., The: *See*—
La Violette, Paul A., Jr. 3,018,577.
Highton, Keith R.: *See*—
Hall, Geoffrey, and Highton. 3,044,030.
Highton, Keith R., to Ferranti, Ltd. Inductive windings. 3,029,402, 4–10–62, Cl. 336—180.
Hightower, Frank W., and W. J. Bleistein, to Branson Instruments, Inc. Method of surface cleaning using ultrasonic energy. 3,033,710, 5–8–62, Cl. 134—1.
Hightstown Rug Co.: *See*—
Brunner, Adam W., and Koch. 3,055,196.

High Voltage Engineering Corp.: *See*—
Burrill, Ernest A. 3,056,025.
Cloud, Robert W. 3,048,720.
Gale, Alfred J. 3,035,221.
Gale, Alfred J. 3,039,011.
Gale, Alfred J. 3,056,024.
Hand, Eugene E. 3,056,052.
Nygard, John C. 3,067,374.
Rose, Peter H. 3,034,846.
Rose, Peter H. 3,067,347.

Higley, Robert E., to Westinghouse Electric Corp. Winding of stator coils. 3,044,150. 7–17–62, Cl. 29—155.5.

Hignett, Travis P., A. B. Phillips, and R. D. Young, to Tennessee Valley Authority. Production of granular superphosphate fertilizer. 3,034,883. 5–15–62, Cl. 71—37.

Hignett, Frank A. and R. F., and H. L. Dequasie, to Delaware Valley Electronics Corp. Survivor locator system. 3,048,839. 8–7–62, Cl. 343—100.

Hignutt, Robert F.: *See*—
Hignutt, Frank A. and R. F., and Dequasie, 3,048,839.

Higonnet, Rene A.: *See*—
Moyroud, Louis M. 3,049,210.

Higonnet, Rene A., and L. M. Moyroud. Strip feeding means. 3,016,209. 1–9–62, Cl. 242—55.12.

Higonnet, Rene A., and L. M. Moyroud. Type composing apparatus. 3,054,335. 9–18–62, Cl. 95—4.5.

Higuchi, Kozo, M. Tsuyuguchi, T. Oda, and K. Ando, to Hakkaido Tanko Kisen Kabushiki Kaisha. Method of manufacturing ammonium nitrohumate. 3,030,412, 4–17–62, Cl. 260—515.

Hijiya, Kenji, and K. Okawa, to Nikon Spindle Seizo Kabushiki Kaisha. Frame cleaning device utilizing exhaust air from a suction cleaner in spinning and like operations. 3,018,503, 1–30–62, Cl. 15—312.

Hijmans, Dirk, to Shell Oil Co. Buffer vessel with controlled by-pass and method of operating same. 3,060,950, 10–30–62, Cl. 137—9.

Hilbert, Lloyd E.: *See*—
Samples, Randall H., and Hilbert. 3,054,831.

Hilbert, Richard G., to Universal Winding Co. High speed false twister spindle and machine. 3,044,247, 7–17–62, Cl. 57—77.43.

Hilbinger, Albert R., to Aircraft Armaments, Inc. Isolator using hall effect gyrator. 3,047,821, 7–31–62, Cl. 333—24.

Hild, Arthur J. Pipe support. 3,041,064, 6–26–62, Cl. 269—76.

Hildebrand, Cleveland L., to E. I. du Pont de Nemours and Co. Metering pump drive arrangement. 3,053,585, 9–11–62, Cl. 308—36.1.

Hildebrand, Hendrick E., Sr., to Continental Baking Co. Combination transporting and display rack. 3,055,723, 9–25–62, Cl. 312—200.

Hildebrand, Klaus, to Askania-Werke A.G. Electro-optical device. 3,037,418, 6–5–62, Cl. 88—1.

Hildebrand, Klaus, and H. Pocher, to Continental Elektroindustrie A.G., Askania-Werke. Instrument for measuring distances and the like. 3,019,690, 2–6–62, Cl. 88—1.

Hildebrandt, Alexander B.: *See*—
Kenney, Ben D., and Hildebrandt. 3,032,127.

Hildebrandt, Alexander B., to Jersey Production Research Co. Combination drill bit. 3,066,749, 12–4–62, Cl. 175—317.

Hildebrandt, Alexander B., to Jersey Production Research Co. Drill bits. 3,066,750, 12–4–62, Cl. 175—329.

Hildebrandt, Alexander B., to Jersey Production Research Co. Vibration detector. 3,067,404, 12–4–62, Cl. 340—17.

Hildebrandt, Edward J., to Joy Mfg. Co. Compressor. 3,031,131, 4–24–62, Cl. 230—182.

Hildebrandt, Robert A., R. J. Hovey, and R. R. Walters, to Fansteel Metallurgical Corp. Electrolytic capacitor. 3,015,758, 1–2–62, Cl. 317—230.

Hildebrandt, Robert A., H. H. Hyman, and S. Vogler, to United States of America, Atomic Energy Commission. Solvent extraction process for separating actinide and lanthanide metal values. 3,049,402, 8–14–62, Cl. 23—14.5.

Hildebrandt, Rudolf C. Device for recording data on a film strip. 3,029,717, 4–17–62, Cl. 95—1.1.

Hildebrandt, William F.: *See*—
Johnson, Charles A., and Hildebrandt. 3,065,920.

Hildebrant, Richard V., and R. C. Wells, to United States of America, Air Force. Anticipation timing device. 3,031,543, 4–24–62, Cl. 200—34.

Hildenbrand, Konrad, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Device for a gastight fixing of ceramic tubes in high temperature furnaces. 3,030,092, 4–17–62, Cl. 263—37.

Hildenbrandt, August J.: *See*—
Cantlin, John H., and Hildenbrandt. 3,045,689.

Hilderbrandt, Edmund P., S. H. Fahnrich, and W. E. Dylewicz, to Fun Time Plastics, Inc. Milk carton carrier and pouring handle. 3,056,622, 10–2–62, Cl. 294—31.2.

Hilding, John R., to United States of America, Navy. Sound simulator utilizing noise source. 3,045,190, 7–17–62, Cl. 331—78.

Hilding, John R., to United States of America, Navy. Relay servomechanism. 3,067,527, 12–11–62, Cl. 35—11.

Hildmann, William B., to Brock and Rankin. Book sewing machine. 3,024,746, 3–13–62, Cl. 112—21.

Hildon, Anthony M., and J. G. Marshall, to Laporte Chemicals Ltd. Preparation of permonosulphates. 3,042,488, 7–3–62, Cl. 23—114.

Hildreth, Clarence L., to Allied Chemical Corp. Titanium compounds and processes of producing same. 3,063,797, 11–13–62, Cl. 23—85.

Hildreth, Donald E.: *See*—
Holcomb, Don R., and Hildreth. 3,030,582.

Hildyard, Joseph M., to Hooker Chemical Corp. Evaporation control method. 3,052,289, 9–4–62, Cl. 159—47.

Hileman, Gerald E., to Hilson Industries, Inc. Ice vending machine. 3,061,393, 10–30–62. Cl. 312—97.1.

Hiler, Malvern J., to The Commonwealth Engineering Co. of Ohio. Process and composition for stabilizing and vat dyeing regenerated cellulose textiles employing formaldehyde and water-solubie dextran. 3,066,996, 12–4–62, Cl. 8—18.

Hilfing, Karl E., and N. Lindell, to Atlas Copco Aktiebolag. Welded sheet metal casings. 3,045,898, 7–24–62, Cl. 230—234.

Hilgers, Giovanni. Method for cracking and subsequent gasifying of hydrocarbons. 3,042,507, 7–3–62, Cl. 48—215.

Hilgers, Giovanni. Method for the thermal processing of carbon-containing gas by direct heat exchange with another gas. 3,057,708, 10–9–62, Cl. 48—206.

Hilgers, Karl, to Malmedie & Co. Maschinenfabrik G.m.b.H. Arrangement for the transport of blanks in machine tools. 3,069,917, 12–25–62, Cl. 74—109.

Hilgert, Adolph J., to Penn Controls, Inc. Fluid conductor motors and control devices employing the same. 3,048,-113, 8–7–62, Cl. 103—1.

Hilgert, Horst: *See*—
Ehlers, Max, Liedtke, and Hilgert. 3,046,104.

Hilgoe, Vernon J.: *See*—
Pedersen, Arne V., Peterson, and Hilgoe. 3,057,268.
Zimmer, William G., Behringer, Hilgoe, and Sheffer. 3,039,387.

Hilgoe, Vernon J., and J. Markvaldas, to Miehle-Goss-Dexter Inc. Ink roller socket. 3,060,851, 10–30–62, Cl. 101—349.

Hi-Lite Polishing Machine Co. Inc.: *See*—
Dreiling, Peter M. 3,024,575.

Hilke, Otto: *See*—
Forster, Gerhard, Hilke, and Ganss. 3,037,565.

Hilkemeier, Louis G., to Worthington Corp. Flooded water system for truck mixers. 3,059,818, 10–23–62, Cl. 222—251.

Hilkemeier, Louis G., to Worthington Corp. Self sealing charging hopper for high dump mixers. 3,061,282, 10–30–62, Cl. 259—161.

Hilkemeyer, Alec G. Protective cover for bowling shoes. 3,040,451, 6–26–62, Cl. 36—7.5.

Hilker, G Daniel: *See*—
Hall, Ralph, Smith, and Hilker. 3,067,063.

Hill, Arthur D. Mercury switch control for electrically governed rudder. 3,018,750, 1–30–62, Cl. 114—144.

Hill, Arthur M., to Service Pipe Line Co. Apparatus for repairing pipelines. 3,070,056, 12–25–62, Cl. 113—102.

Hill, Arthur M., to Service Pipe Line Co. Method and apparatus for coating pipes. 3,070,065, 12–25–62, Cl. 118—409.

Hill, Ben J., to Hill Laboratories Co. Rolling massage apparatus with angle changing means. 3,039,458, 6–19–62, Cl. 128—57.

Hill, Betty E.: *See*—
Ellis, Bernard, Hill, Petrow, and Williamson. 3,062,844.

Hill, Broadus E., Jr.: *See*—
Barnes, Thomas W., and Hill. 3,051,364.

Hill Bros. Co.: *See*—
Hill, Lawson T., and L. T. Hill, Jr. 3,046,680.

Hill, Charles A. S., to Richard D. Brew and Co., Inc. Electrical heating device. 3,057,936, 10–9–62, Cl. 13—25.

Hill, Claude, to Harry Ferguson Research Ltd. Chain-and-sprocket drives. 3,029,654, 4–17–62, Cl. 74—216.5.

Hill, Claude, to Harry Ferguson Research Ltd. Variable speed and torque transmission. 3,059,504, 10–23–62, Cl. 74—732.

Hill, Clifford W., to Union Carbide Corp. Arc torch handle gas valve. 3,061,709, 10–30–62. Cl. 219—750.

Hill, Clifford W., W. J. Blanchard, Sr., and K. E. Fisken, to Union Carbide Corp. Arc torch electrode centering. 3,069,532, 12–18–62, Cl. 219—130.

Hill, Dale E.: *See*—
Williams, Forrest V., Ruehrwein, and Hill. 3,022,452.
Williams, Forrest V., Ruehrwein, and Hill. 3,054,936.

Hill, Edward G.: *See*—
Ayers, David T., Jr., and Hill. 3,067,727.

Hill, Edward G., to Kelsey-Hayes Co. Brake operating mechanism. 3,030,154, 4–17–62, Cl. 303—6.

Hill, Edward G., to Kelsey-Hayes Co. Booster brake mechanism. 3,035,552, 5–22–62, Cl. 121—41.

Hill, Edward G., to Kelsey-Hayes Co. Fluid pressure motor mechanism. 3,063,427, 11–13–62, Cl. 121—41.

Hill, Edward G., and J. X. Phillips, to Kelsey-Hayes Co. Motor vehicle braking system and control means therefor. 3,022,115, 2–20–62, Cl. 303—24.

Hill, Edward H.: *See*—
Caldwell, John R., Jackson, and Hill. 3,038,887.

Hill, Edward J. Means for holding nasal tubes in position. 3,046,989, 7–31–62, Cl. 128—348.

Hill, Edward J. Garbage cans. 3,059,807, 10–23–62, Cl. 220—31.

Hill, Edward T. Pistol to be worn on the wrist. 3,018,578, 1–30–62, Cl. 42—13.

Hill Electronics, Inc. : *See*—
Houck, Gilbert R. 3,054,915.
Hill, Emil H. Chain saw sharpener. 3,020,783, 2–13–62, Cl. 76—37.
Hill, Emil H. Detachable link saw chain. 3,020,942, 2–13–62, Cl. 143—135.
Hill, Ernest T. Gate hinge. 3,064,305, 11–20–62, Cl. 16—147.
Hill, Frank A., and A. J. Pankratz, to General Precision, Inc. Pulse generator using delay lines. 3,027,468, 3–27–62, Cl. 307.88.5.
Hill, Frank E. : *See*—
Gardiner, Duncan B., and Hill. 3,015,343.
Hill, Franklin B. Suspension and moving device for drapes and doors. 3,045,747, 7–24–62, Cl. 160—331.
Hill, Fred N. : *See*—
Bailey, Frederick E., Jr., and Hill. 3,041,291.
Thompson, Bruce R., Hill, and Smith. 3,020,229.
Hill, Fred N., J. T. Fitzpatrick, and F. E. Bailey, Jr., to Union Carbide Corp. Preparation of catalysts for the polymerization of epoxides. 3,037,943, 6–5–62, Cl. 260—2.
Hill, Fred N., F. E. Bailey, Jr., and J. T. Fitzpatrick, to Union Carbide Corp. Polymerization of epoxides. 3,062,-755, 11–6–62, Cl. 260—2.
Hill, George B. Double sickle mower construction. 3,017,736, 1–23–62, Cl. 56—297.
Hill, George H., K. A. Sumida, and A. G. Dobrowsky, to Dashew Business Machines, Inc. Printing machines. 3,045,589, 7–24–62, Cl. 101—56.
Hill, George W. : *See*—
Larsen, Paul V., Eyolfson, Hill, and Dils. 3,026,947.
Hill, Gilbert F., to L.A.B. Corp. Vertical linear lock for circular motion testing machine. 3,037,378, 6–5–62, Cl. 73—71.6.
Hill, Harry N., J. W. Clark, and W. A. Woodburn, to Aluminum Co. of America. Stretching mechanisms. 3,051,217, 8–28–62, Cl. 153—35.
Hill, Harvey J., to The Roberts Co. Locking screwdriver. 3,068,922, 12–18–62, Cl. 145—52.
Hill, Howard C., to American Can Co. Service plate or tray. 3,067,922, 12–11–62, Cl. 229—2.5.
Hill, Howard M. Striking punch. 3,019,713, 2–6–62, Cl. 93—36.5.
Hill, Howard M. Dispensing container and blank therefor. 3,029,009, 4–10–62, Cl. 229—17.
Hill, Howard M. Fibre container. 3,032,252, 5–1–62, Cl. 229—37.
Hill, Howard M. Dispensing container and blank. 3,039,-669, 6–19–62, Cl. 229—17.
Hill, Howard M. Container and blank therefor. 3,043,491, 7–10–62, Cl. 229—17.
Hill, Howard M. Dispensing container. 3,047,200, 7–31–62, Cl. 229—17.
Hill, Ian M., ½ to John Dalglish & Sons Ltd. Bow straightening device. 3,020,620, 2–13–62, Cl. 26—51.3.
Hill, Ira W., ½ to A. C. Hoffman. Vehicle emergency brake apparatus. 3,017,965, 1–23–62, Cl. 188—163.
Hill, James H., to E. I. du Pont de Nemours and Co. Circumferentially grooved, longitudinally striped bobbin. 3,034,-743, 5–15–62, Cl. 242—118.32.
Hill, James H. Safety valve mechanism for hydraulic brake system. 3,039,269, 6–19–62, Cl. 60—54.5.
Hill, James J., to Apco, Inc. Ice dispenser for beverage vending machines. 3,027,035, 2–13–62, Cl. 222—245.
Hill, James J., to American Sumatra Tobacco Corp. Selective vending machine. 3,044,598, 7–17–62, Cl. 194—17.
Hill, James S. Adjustable stop mechanism for end gates. 3,023,042, 2–27–62, Cl. 292—276.
Hill, James S., to Engelhard Industries, Inc. Composite material and thermocouple made therefrom. 3,049,577, 8–14–62, Cl. 136—4.
Hill, James S., to Engelhard Industries, Inc. Material for handling molten glass. 3,065,526, 11–27–62, Cl. 29—199.
Hill, James S., to Engelhard Industries, Inc. Composite material of platinum alloy and glass. 3,065,571, 11–27–62, Cl. 219—92.5.
Hill, Jimmy W. : *See*—
Brown, Lloyd H., and Hill. 3,020,609.
Hill, John, to Clevite Corp. Turnover mechanism. 3,025,-978, 3–20–62, Cl. 214—1.
Hill, John H., to Wildman Jacquard Co. Method of knitting a two faced pile fabric. 3,021,698, 2–20–62, Cl. 66—9.
Hill, John H., to Wildman Jacquard Co. Elastic pile fabric and method. 3,023,596, 3–6–62, Cl. 66—194.
Hill, John H., to Wildman Jacquard Co. Fiber control for pile fabric knitting machines. 3,045,459, 7–24–62, Cl. 66—94.
Hill, John L. : *See*—
Andersen, Gordon W., Hill, and Martin. 3,026,494.
Hill, John L. Gun with ejection through hand grip. 3,064,-382, 11–20–62, Cl. 42—25.
Hill, John L., and J. A. Engstrom, Jr., to Sperry Rand Corp. Magnetic record sensing apparatus. 3,064,242, 11–13–62, Cl. 340—174.1.
Hill, John R., to The English Electric Co. Ltd. Electrical impedance networks. 3,064,158, 11–13–62, Cl. 307—57.
Hill, John, R. B. Phaneuf, and R. U. Fittz, Jr., to Clevite Corp. Method and apparatus for assembling a semiconductor. 3,069,531, 12–18–62, Cl. 219—78.
Hill, Joseph : *See*—
Woods, Allen. 3,059,401.
Hill, Joseph A., to Jacobsen Mfg. Co. Combined tractor hood, grille, and instrument panel. 3,064,748, 11–20–62, Cl. 180—69.
Hill, Joseph A., and K. H. Hoffmeyer, to Jacobsen Mfg. Co. Combined tractor seat, fenders, and tool box. 3,058,771, 10–16–62, Cl. 296—37.
Hill, Joseph J., to National Research Development Corp. Electrical measuring instruments. 3,052,846, 9–4–62, Cl. 324—106.
Hill, Justin D., and D. J. Cain, to The Lawrence Paper Co. Process of making wax-containing paper using waste wax paper. 3,021,252, 2–13–62, Cl. 162—7.
Hill, Keith A. : *See*—
Busey, James D., Garnett, Hill, and Napp. 3,063,203.
Welles, Donald P., Jr., and Hill. 3,038,253.
Hill Laboratories Co. : *See*—
Hill, Ben J. 3,039,458.
Hill, Lawson T., and L. T. Hill, Jr., to Hill Bros. Co. Rubber-soled safety shoe. 3,046,680, 7–31–62, Cl. 36—77.
Hill, Lawson T., Jr. : *See*—
Hill, Lawson T., and L. T. Hill, Jr. 3,046,680.
Hill, Lester M., to Beloit Iron Works. Blade mounting means. 3,061,867, 11–6–62, Cl. 15—256.51.
Hill, Max E., to Hill Transformer Co., Inc. Retainer for transformer casing cover. 3,018,017, 1–23–62, Cl. 220—55.
Hill, Maxwell H. Device for forecasting time of a race horse. 3,038,655, 6–12–62, Cl. 235—61.
Hill, Moore, to James Mackie & Sons Ltd. Fallers for textile machines. 3,057,021, 10–9–62, Cl. 19—129.
Hill, Moore, to James Mackie & Sons Ltd. Apparatus for doffing coiled sliver. 3,060,518, 10–30–62, Cl. 19—159.
Hill, Napoleon E., to Worthington Corp. Electrical duct heater. 3,067,316, 12–4–62, Cl. 219—39.
Hill, Petro A., to United States Rubber Co. Compressible foam product. 3,043,731, 7–10–62, Cl. 154—54.
Hill, Pierre A. : *See*—
Hill, Pierre F. and P. A. 3,052,938.
Hill, Pierre F. and P. A. Safety pin. 3,052,938, 9–11–62, Cl. 24—161.
Hill, Ralph M. : *See*—
Gray, Curtis E. 3,040,698.
Kirshenbaum, Isidor, Muessig, and Hill. 3,042,661.
Hill, Ralph W., to Pan American Petroleum Corp. Metering system. 3,036,455, 5–29–62, Cl. 73—3.
Hill, Raymond C. Fishing implement. 3,061,967, 11–6–62, Cl. 43—17.2.
Hill, Richard L. : *See*—
Park. William R. R., and Hill. 3,022,178.
Hill, Robert H. : *See*—
Hawk, Thomas F. 3,049,070.
Hawk, Thomas F., and Hill. 3,058,623.
Hill, Robert H., to Parkersburg Rig and Reel Co. Pump actuating systems. 3,065,704, 11–27–62, Cl. 103—46.
Hill, Robert M., to Sylvania Electric Products Inc. Microwave switch. 3,023,380, 2–27–62, Cl. 333—13.
Hill, Robert O. : *See*—
Potter, Irvin M., and Hill. 3,019,015.
Hill, Robert T. Pharmaceutical preparation. 3,026,247, 3–20–62, Cl. 167—58.
Hill-Rom Co., Inc. : *See*—
Hillenbrand, William A., and Burst. 3,065,334.
Hill, Ronald A., to International Standard Electric Corp. Electrostatic capacitors. 3,029,370, 4–10–62, Cl. 317—230.
Hill, Ronald G., and E. J. Zapel. Pure bending test machine. 3,026,720, 3–27–62, Cl. 73—100.
Hill, Rowland. Fish scaling and filleting jig. 3,016,565, 1–16–62, Cl. 17—8.
Hill, Thomas C. : *See*—
Cooke, Conrad H., and Hill. 3,042,343.
Hill, Thurman : *See*—
Cox, Pope D. 3,057,415.
Hill Transformer Co., Inc. : *See*—
Hill, Max E. 3,018,017.
Hill, Uno T., to Inland Steel Co. Method of preventing the surface staining of cold rolled steel. 3,050,847, 8–28–62, Cl. 29—528.
Hill, Uno T., to Inland Steel Co. Electrolytic tin plate production. 3,062,726, 11–6–62, Cl. 204—40.
Hill, Walter P., Inc. : *See*—
Hill, Walter P. 3,020,705.
Hill, Walter P., to Walter P. Hill, Inc. Positioning system including a prime mover and locking means therefor. 3,020,705, 2–13–62, Cl. 60—6.
Hill, Walter S. : *See*—
Abella, Carlos A., and Hill. 3,057,344.
Hill, William, and D. H. Lounsbury, to J. W. Greer Co. Breading apparatus. 3,045,640, 7–24–62, Cl. 118—16.
Hill, William F., Jr. : *See*—
Straughan, John R., Stickle, and Hill. 3,057,812.
Hill, William H., to Litton Systems, Inc. Photo-transducer signal compressor. 3,050,696, 8–21–62, Cl. 332—3.
Hillard, George O., Jr. : *See*—
Dunlop, Donald D., Koontz, and Hillard. 3 067,268.
Hillberg, Bror : *See*—
Eriksson, George J., and Hillberg. 3,065,659.
Hillberg, Bror, to Superior Concrete Accessories, Inc. Dowel bar supporting structure for concrete expansion and contraction joints. 3,033,087, 5–8–62, Cl. 94—8.
Hillberg, Bror, to Superior Concrete Accessories, Inc. Waler clamp assembly. 3,060,541, 10–30–62, Cl. 25—131.
Hillberg, Robert L., to C. E. Lowe, Sr. Sear mechanism disconnected by breech block motion. 3,060,810, 10–30–62, Cl. 89—145.

Hillecourt, Carrol W. Anchor. 3,022,762, 2–27–62, Cl. 114—208.

Hilleary, William and W. C. Textile heating apparatus. 3,063,124, 11–13–62, Cl. 28—62.

Hilleary, William C. : *See*—
Hilleary, William and W. C. 3,063,124.

Hillebrand, Earl D., to Geo. D. Roper Corp. Removable oven drop door. 3,049,116, 8–14–62, Cl. 126—194.

Hillebrand, Earl D., and H. M. Reeves, to Geo. D. Roper Corp. Combination cooking unit. 3,034,419, 5–15–62, Cl. 99—340.

Hillegas, Julian M., to Continental Can Co. Crown cap disk inserting apparatus. 3,045,743, 7–24–62, Cl. 156—567.

Hillegonds, Lester J. *See*—
Lind, Orbie E., Jr., and Hillegonds, 3,023,682.

Hillen, Hubert J., and D. J. Stuart, to International Computers and Tabulators Ltd. Card feeding apparatus. 3,020,044, 2–6–62, Cl. 271—44.

Hillen, Robert J. : *See*—
Rogers, Dow A., Jr., and Hillen. 3,026,222.

Hillenbrand, Daniel A., and W. W. F. Dieckmann, to Batesville Casket Co., Inc. Load supporting and handling mechanism for vehicles. 3,019,920, 2–6–62, Cl. 214—84.

Hillenbrand, George C., to H. Silberglait, L. Wolff, and H. Greenwald. Burial casket. 3,052,946, 9–11–62, Cl. 27—1.

Hillenbrand, Louis J., Jr. : *See*—
Bearse, Arthur E., Hillenbrand, and Grotta. 3,041,349.
Pattison, John N., Vance, Hillenbrand, and Lanman. 3,038,954.

Hillenbrand, William A., and F. J. Burst, to Hill-Rom Co., Inc. Track mounted lamp. 3,065,334, 11–20–62, Cl. 240—4.

Hiller Aircraft Corp. : *See*—
Jacobsen, Edward H., and Nelson. 3,029,047.
Nichols, John B. 3,025,026.
Nichols, John B., 3,049,321.
Nichols, John B., and Stuart. 3,049,178.

Hiller, Alexander J. : *See*—
Mathes, Robert H., and Hiller. 3,033,570.

Hiller, Robert W., to Dravo Corp. Apparatus for constructing stairs. 3,062,529, 11–6–62, Cl. 269—9.

Hiller, Rolf, K. Rutkowski, W. Krägeloh, D. Voegtlen, and S. Zahlhaas, to Siemens & Halske Aktiengesellschaft. Electronic selection circuits. 3,051,793, 8–28–62, Cl. 179—18.

Hiller, Stanley, to Coproducts Corp. Process for treating fresh coconuts. 3,069,442, 12–18–62, Cl. 260—412.2.

Hillesheim, Albert J. Laminated building arch. 3,039,152, 6–19–62, Cl. 20—1.

Hilliger, Frederick B., and R. E. Wroblewski, to Equipment Mfg., Inc. Auxiliary side rail for load supporting racks. 3,047,906, 6–26–62, Cl. 211—183.

Hillgren, Carl C., to Hillgren Mfg. Co. Apparatus for drawing door knobs. 3,040,684, 6–26–62, Cl. 113—44.

Hillgren Mfg. Co. : *See*—
Hillgren, Carl C. 3,040,684.

Hilliard, Donald A., to The Goodyear Tire & Rubber Co. Multi-color coating composition. 3,038,869, 6–12–62, Cl. 260—8.

Hilliard, Edward J., Jr., to United States of America, Navy. Automatic variable slicer circuit. 3,028,554, 4–3–62, Cl. 328—117.

Hilliard, Glenn E., to Allegheny Ludlum Steel Corp. Process of producing steel. 3,030,203, 4–17–62, Cl. 75—60.

Hilliard, James M., to Cathedral Kneeler Co. Kneeler for a church pew. 3,023,049, 2–27–62, Cl. 297—426.

Hilliard, John K., and B. Mitchell. Voice-control telephone conference system. 3,026,374, 3–20–62, Cl. 179—1.

Hilliard, Robert C., to United States of America, Navy. Wave meter drive mechanism. 3,036,281, 5–22–62, Cl. 333—83.

Hilliker, Donald E., to General Electric Co. Evaporator structure for household refrigerators. 3,019,619, 2–6–62, Cl. 62—417.

Hillix, Foster F., to Wedge Protectors, Inc. Ring expanding machine. 3,034,565, 5–15–62, Cl. 153—48.

Hillix, Foster F., to Wedge Protectors, Inc. Ring rolling machine. 3,048,202, 8–7–62, Cl. 140—88.

Hillman, Harold R. : *See*—
Alikonis, Justin J., Hillman, and Olson. 3,062,660.

Hillman, James G. E. : *See*—
Molins, Desmond W., Pembroke, and Hillman. 3,070,207.
Pembroke, George F., and Hillman. 3,026,661.

Hillman, Murray J., to Hycon Mfg. Co. Voltage and current regulator. 3,023,354, 2–27–62, Cl. 322—25.

Hillman, Murray J., to Hoffman Electronics Corp. Pulse modulation transmission systems or the like. 3,035,234, 5–15–62, Cl. 332—10.

Hillman, Murray J., and A. Nuut, to Hycon Mfg. Co. Transistor time delay relay circuit. 3,017,543, 1–16–62, Cl. 317—148.5.

Hillmeyer, Albert C., and J. M. Calhoun, to Otarion, Inc. Eyeglass and self-contained hearing aid unit. 3,059,066, 10–16–62, Cl. 179—107.

Hills Bros. Coffee, Inc. : *See*—
Nutting, Lee, Silverstein, and Himel. 3,033,875.
Nutting, Lee, Silverstein, and Himel. 3,041,351.

Hills, Campbell E., to United States of America, Air Force. Pulse signal proportional control servosystem. 3,031,603, 4–24–62, Cl. 318—16.

Hills-McCanna Co. : *See*—
Flynn, Jac B. 3,040,666.
Mashinter, William H. 3,053,187.
McFarland, Rolland, Jr. 3,041,036.
Priese, Werner K. 3,030,068.

Hills, William H. : *See*—
Bromley, James E., and Hills. 3,024,516.
Bromley, James E., and Hills. 3,024,517.
Bromley, James E., and Hills. 3,041,706.
Lamb, Douglas J., and Hills. 3,042,326.

Hillson, Frank, and R. Krivisky. Sliding door guide. 3,017,656, 1–23–62, Cl. 16—90.

Hillson, Frank, and R. Krivisky. Sliding drawer assembly. 3,050,357, 8–21–62, Cl. 312—332.

Hillson, Peter J., to Eastman Kodak Co. Unhardened, fogged emulsions and method of processing to positive images. 3,062,651, 11–6–62 Cl. 96—95.

Hill Top Research Institute, Inc. : *See*—
Majors, Paul A. 3,068,154.

Hillyer, Curtis, to General Time Corp. Data transmission apparatus. 3,059,847, 10–23–62, Cl. 235—61.11.

Hillyer, John S. : *See*—
Smith, Robert S. C. 3,043,235.

Hillyer, Murrel N., and J. E. Maxcy, to Hoover Bros., Inc. Viewing screen assembly for movie projectors. 3,025,757, 3–20–62, Cl. 88—24.

Hilmanowski, James R. : *See*—
Braga, Albert T., and Hilmanowski. 3,038,640.
Buzinzky, Edmund J., Johnson, Hilmanowski, and Mlinar. 3,038,641.

Hilmer, Elwyn P., and D. W. Youmans. Transmission. 3,031,025, 4–24–62, Cl. 180—75.

Hilpman, Paul, and W. A. Milanese, Jr., to Mergenthaler Linotype Co. Transfer mechanism for a linecasting machine. 3,024,895, 3–13–62, Cl. 199—32.

Hilpman, Paul, and G. Post, to Mergenthaler Linotype Co. Delivery slide for linecasting machines. 3,048,261, 8–7–62, Cl. 199—26.

Hilpman, Paul, and W. A. Milanese, Jr., to Mergenthaler Linotype Co. Single lever transfer mechanism for linecasting machines. 3,068,999, 12–18–62, Cl. 199—36.

Hilsenrath, Manfred, to Lockheed Aircraft Corp. Low drift transistorized gating circuit. 3,031,588, 4–24–62, Cl. 307—88.5.

Hilson Industries, Inc. : *See*—
Hileman, Gerald E. 3,061,393.

Hilti, Martin, to Anstalt fur Montage-Technik. Apparatus for shooting studs into solid material. 3,058,116, 10–16–62, Cl. 1—44.5.

Hiltmann, Rudolf : *See*—
Wollweber, Hartmund, Hiltmann, Wirth, and Kreiskott. 3,046,298.

Hilton, A. Beekman, to Courtaulds, Inc. Textile process and product. 3,025,622, 3–20–62, Cl. 38—144.

Hilton, Albert R., Jr., and H. H. Spain, to Jersey Production Research Co. Apparatus for cleaning interior surfaces of pipe strings. 3,070,169, 12–25–62, Cl. 166—177.

Hilton, Kenneth D., to Rolls-Royce Ltd. Blades for gas turbine engines. 3,051,439, 8–28–62, Cl. 253—39.15.

Hilton, Ralph W., to Harvey Machine Co., Inc. Method of and apparatus for making impact extrusions. 3,064,347, 11–20–62, Cl. 29—555.

Hilton, Thomas I., to Cluett, Peabody & Co., Inc. Stay fusing timing device. 3,052,281, 9–4–62, Cl. 156—359.

Hiltpold, Robert, W. Fisch, and P. Speiser, to Ciba Ltd. Epoxy-resin enteric coated tablet and composition. 3,055,433, 9–25–62, Cl. 167—82.

Hiltrop, Carl L., and J. Lemish, to Iowa State College Research Foundation, Aggregate treatment. 3,042,535, 7–3–62, Cl. 106—85.

Hilts, William T. System for cleaning liquid dispensing lines. 3,036,741, 5–29–62, Cl. 222—148.

Hime, Walter J., and E. F. Lauterbach, to A. Kimball Co. Bottle cap holding cards. 3,061,092, 10–30–62, Cl. 206—79.

Himebrook, Fredrick C. : *See*—
Coolidge, John E., and Himebrook. 3,052,833.

Himel, Chester M. : *See*—
Nutting, Lee, Silverstein, and Himel. 3,041,351.

Himelsbaugh, Rudolph, to Mechanical Industries Production Co. Apparatus for and method of welding contacts within a case. 3,041,443, 6–26–62, Cl. 219—79.

Himka, John, D. C. Probst, J. H. Gilson, and A. J. Carpenter, to General Motors Corp. Vehicle body. 3,024,062, 3–6–62, Cl. 296—44.

Himka, John, R. J. Lauer, and H. A. Mackie, to General Motors Corp. Vehicle body. 3,034,823, 5–15–62, Cl. 296—28.

Himka, Theodore, to Curtiss-Wright Corp. Supersonic air inlet construction. 3,062,484, 11–6–62, Cl. 244—53.

Himler, Paul J. Bottle holder. 3,029,058, 4–10–62, Cl. 248—350.

Himmelberger, Harold, to United States of America, Navy. Wheel steering and suspension arrangement for missile dolly. 3,066,947, 12–4–62, Cl. 280—80.

Himmelfarb, David, and W. J. Knee. Stabilization of nylon rope. 3,048,963, 8–14–62, Cl. 57—140.

Himmelheber, Max, G. Hagen, and O. Froede. Chipwood articles of high compressive strength and processes for producing the same. 3,023,136, 2–27–62, Cl. 154—45.9.

Himmelheber, Max, K. Steiner, and W. Kull, to Allwood Inc. Apparatus for producing pressed wood-particle panels. 3,067,456, 12–11–62, Cl. 18—4.

Himmelmann, Wolfgang, H. Von Rintelen, and O. Wahl, to Afga Aktiengesellschaft. Vinylsulfonamide modified gelatine and photographic emulsions therefrom. 3,061,436, 10–30–62. Cl. 96—94.

Hinckley, Gardner I., to The Grand Union Co. Method for producing roller assemblies. 3,023,487, 3–6–62, Cl. 29—148.4.

Hind, John D., to Philip Morris, Inc. Selective alkaloid extraction. 3,046,997, 7–31–62, Cl. 131—143.
Hinde, James N., to Bell & Gossett Co. Condensers. 3,042,-379, 7–3–62, Cl. 257—43.
Hinden, Milton. Damper and linkage therefor. 3,044,387, 7–17–62, Cl. 98—110.
Hindenlang, Arthur W., to Combustion Engineering, Inc. Control valve for start up and shut down of atomizing oil burners. 3,065,783, 11–27–62, Cl. 158—28.
Hinderer, Robert F., and J. A. Mullen, to Anaconda Wire and Cable Co. Extrusion of thermosetting polymeric materials. 3,054,142, 9–18–62, Cl. 18—13.
Hinderer, Thomas A., to Fairbanks, Morse & Co. Control for impulse coupling. 3,049,635, 8–14–62, Cl. 310—84.
Hinderling, Rudolf, A. H. Lutz, and O. Schnider, to Hoffmann-La Roche Inc. Method for the preparation of 2,4-dioxo-tetrahydropyridines. 3,019,230, 1–30–62, Cl. 260—297.
Hindermann, Peter: *See*—
Keller, Ernst, Hindermann, and Jung. 3,038,802.
Hindersinn, Raymond R.: *See*—
Worsley, Michael, and Hindersinn. 3,036,999.
Worsley, Michael, and Hindersinn. 3,055,850.
Hindersinn, Raymond R., and M. Worsley, to Hooker Chemical Corp. Halogen containing polyurethane foams and process for preparing same. 3,055,849, 9–25–62, Cl. 260—2.5.
Hindin, Herbert B.: *See*—
Reinowski, Leonard E., Hindin, and Seeley. 3,042,098.
Hindin, Sarl G., and G. A. Mills, to Houdry Process Corp. Reactivation of platinum catalysts. 3,016,354, 1–9–62, Cl. 252—413.
Hindle, Thomas, and D. D. Banks, to Scapa Dryers Ltd. Felt and like guides. 3,043,153, 7–10–62, Cl. 74—241.
Hindle, Thomas, and E. Race. Woven fabric useful as a paper-machine felt and method of making the same. 3,063,-127, 11–13–62, Cl. 28—72.
Hindley Bros. Ltd.: *See*—
Hammond, Eric T., Watson, Cole, and Lane. 3,035,397.
Hindley, Frank: *See*—
Bates, Harold, Hindley, and Popiolek. 3,040,027.
Hindley, Nathan C., to Hoffmann-La Roche Inc. Racemization catalyst and process for the manufacture thereof. 3,036,973, 5–29–62, Cl. 252—474.
Hindman, Roy G. Separating nut assembly. 3,038,366, 6–12–62, Cl. 85—33.
Hindmarch, Thomas. Marine propulsion installations. 3,034,-584, 5–15–62, Cl. 170—160.32.
Hinds, Charles T.: *See*—
Beeren, Thomas J., and Hinds. 3,061,166.
Hinds, Gene W., G. M. Skinner, and P. L. Smith, to Union Carbide Corp. Oxygen roof jet device. 3,020,035, 2–6–62, Cl. 266—34.
Hinds, James A., to Parsons Corp. Method of manufacturing plastic rotor blades. 3,028,292, 4–30–62, Cl. 156—214.
Hinds, John K. Check valve. 3,023,771, 3–6–62, Cl. 137—454.2.
Hinds, Ronald, to British Insulated Callender's Cables Ltd. Manufacture of transposed multiple strip conductor. 3,018,-802, 1–30–62, Cl. 140—71.
Hinds, Ronald, to British Insulated Callenders Cables Ltd. Transposing heads for use in the manufacture of transposed multiple strip conductor. 3,060,976, 10–30–62, Cl. 140—71.
Hine, Christian, and A. Mendes Da Costa, to l'Electro Refractaire. Process of preparation of refractory products containing zirconia, alumina and silica. 3,035,929, 5–22–62, Cl. 106—57.
Hine, Edward K., to Curtiss-Wright Corp. Reversing aircraft propeller. 3,020,007, 2–6–62, Cl. 244—81.
Hine, Edward K., to Curtiss-Wright Corp. Mechanical speed control. 3,057,207, 10–9–62, Cl. 73—512.
Hine, Roy G. B.: *See*—
Harling, Denis W., and Hine. 3,057,954.
Hinegardner, Wilbie S.: *See*—
Elston, Arthur A., and Hinegardner. 3,016,290.
Hines, Charles F., Fishhook leader stay. 3,067,538, 12–11–62, Cl. 43—42.74.
Hines, Claude M., to Westinghouse Air Brake Co. Compressor synchronizing system for multi-unit locomotives having arrangement for equalizing fluid pressure demand for brake control purposes on all units. 3,061,381, 10–30–62, Cl. 303—10.
Hines, Douglas P., to General Electric Co. Temperature reference block. 3,069,909, 12–25–62, Cl. 73—361.
Hines Flask Co., The: *See*—
Hines, Russell J. 3,022,553.
Hines, Leonard R., to American Cyanamid Co. Method of treating fresh red meat for stabilization of color. 3,023,-109, 2–27–62, Cl. 99—107.
Hines, Lloyd Q., Sr. Rotary tilling device. 3,066,743, 12–4–62, Cl. 172—81.
Hines, Marion E.: *See*—
Anderson, William W., and Hines. 3,051,908.
Grubbs, William J., Jr., Hines, and Varnerin. 3,021,459.
Hines, Paul J., and E. M. Worth, to Raytheon Co. Electrical resistance devices. 3,045,200, 7–17–62, Cl. 338—174.
Hines, Paul R.: *See*—
Green, Evelyn V., and Hines. 3,053,531.
Hines, Paul R., and R. P. Taylor, to Richfeld Oil Corp. Separation of phthalic acids. 3,036,123, 5–22–62, Cl. 260—525.
Hines, Russell J., to The Hines Flask Co. Flask for making sand molds for castings. 3,022,553, 2–27–62, Cl. 22—110.
Hinge, George. Baby's bath. 3,021,531, 2–20–62, Cl. 4—177.
Hings, Donald L. and D. P. Method and machine for applying thermosetting resin. 3,037,900, 6–5–62, Cl. 156—310.
Hings, Donald P.: *See*—
Hings, Donald L. and D. P. 3,037,900.
Hinkamp, James B., to Ethyl Corp. Synergistic additive mixtures for fuels. 3,035,906, 5–22–62, Cl. 44—66.
Hinkein, Donald J., and W. W. Martin, to International Business Machines Corp. Control element for computing devices. 3,067,937, 12–11–62, Cl. 235—157.
Hinkel, Lester H., and M. Ferar, to Whirlpool Corp. Movable kitchen units and control means therefor. 3,028,209, 4–3–62, Cl. 312—223.
Hinkle, Barton L.: *See*—
Hamilton, William S., and Hinkle. 3,021,560.
Hinkle, Barton L., to E. I. du Pont de Nemours and Co. Process for treating viscose. 3,048,579, 8–7–62, Cl. 260—218.
Hinkle, Eugene: *See*—
Kimrey, James A. C., and Hinkle. 3,016,725.
Hinkle, James O.: *See*—
Gothe, Walter C., and Hinkle. 3,055,328.
Gothe, Walter C., and Hinkle. 3,064,607.
Hinkle, John H., Jr., to Hooker Chemical Corp. Aluminum and sodium aluminum fluorides. 3,063,799, 11–13–62, Cl. 23—88.
Hinkle, John H., Jr., E. J. Weaver, and L. M. Smith, to Hooker Chemical Corp. Waste recovery process. 3,058,803, 10–16–62, Cl. 23—88.
Hinkle, Paul E., to Kingston Products Corp. Timer switch circuit. 3,025,367, 3–13–62, Cl. 200—38.
Hinkley, David F.: *See*—
Themerdia, John M., Tristram, and Hinkley. 3,053,866.
Hinkley, James R.: *See*—
Casement, James S., and Hinkley. 3,021,234.
Hinlicky, John A.: *See*—
Kant, Fred H., Baeder, Hinlicky, and Read. 3,043,770.
Hinman, Jack W.: *See*—
Hoeksema, Herman, Caron, and Hinman. 3,026,331.
Hinman, Walter L.: *See*—
Palmer, Karl, and Hinman. 3,048,676.
Hino, Tsunetoshi: *See*—
Iwakiri, Mitsuo, and Hino. 3,020,257.
Hinrichs, Ferdinand, and T. A. Geary, to Ladish Co. Electric motor drive crimping tools. 3,034,443, 5–15–62, Cl. 103—87.
Hinrichs, John F., to A. O. Smith Corp. Welding nozzle. 3,038,059, 6–5–62, Cl. 219—130.
Hinrichs, Karl, to Beckman Instruments, Inc. Switching circuit. 3,027,520, 3–27–62, Cl. 330—147.
Hinrichs, Karl, and J. V. White, to Beckman Instruments, Inc. Clamping circuit for feedback amplifiers. 3,058,068, 10–9–62, Cl. 330—10.
Hinrichsen, Hans V., and E. L. Mattson, to Automatic Welding Co. Roller re-surfacing machine. 3,024,349, 3–6–62, Cl. 219—73.
Hinsey, Robert S., to The Bingham-Herbrand Corp. Mechanism control. 3,034,374, 5–15–62, Cl. 74—534.
Hinsey, Robert S., to Van Norman Industries, Inc. Mechanism control. 3,051,015, 8–28–62, Cl. 74—529.
Hinsvark, Orville N., to Catalysts and Chemicals Inc. Method of preparation and stabilization of catalysts. 3,032,515, 5–1–62, Cl. 252—466.
Hintermaier, John C.: *See*—
Bogaty, Herman, Hollies, and Hintermaier. 3,060,551.
Hinton, Anthony J., and V. G. Morgan, to Imperial Chemical Industries Ltd. Manufacture of coloured paper. 3,049,468, 8–14–62, Cl. 162—162.
Hinton, Anthony J., J. S. Morley, and J. N. Turner, to Imperial Chemical Industries Ltd. Process for control of micro-organisms. 3,065,123, 11–20–62, Cl. 162—161.
Hinton, Howard A. Saddle mount. 3,020,064, 2–6–62, Cl. 280—402.
Hinton, Raymond C. P.: *See*—
Pagano, Carmine N., Bigo and Hinton. 3,054,003.
Wright, Esmond P. G., Weir, Hinton, and Dzula. 3,025,-341.
Hinton, Raymond C. P., to International Telephone and Telegraph Corp. Party line detector connector. 3,029,314, 4–10–62, Cl. 179—17.
Hintze, Klaus, and K. Heinze, to VEB Kamera- und Kinowerke Dresden. Photographic cameras with reciprocating operating handle. 3,021,773, 2–20–62, Cl. 95—31.
Hintzen, Heinz, to Ford Motor Co. Vehicle suspension. 3,061,329, 10–30–62, Cl. 280—96.2.
Hintzke, Klaus, to Kamera- und Kinowerke Dresden, VEB. Photographic cameras. 3,063,355, 11–13–62, Cl. 95—10.
Hinz, Arnulf: *See*—
Rodis, Franz, and Hinz. 3,035,301.
Thomas, Friedrich, Bodis, and Hinz. 3,067,857.
Hinz, Werner: *See*—
Hirschfeld, Gerhard, Hinz, and Fritzsche. 3,029,944.
Hirschfeld, Gerhard, Hinz, and Fritzsche. 3,035,694.
Hirschfeld, Gerhard, Hinz, and Fritzsche. 3,069,653.
Hinze, Adolf: *See*—
Lohmann, Adalbert, Friess, Hinze, and Schmidt. 3,026,369.
Hinze, George. Dental articulator. 3,019,529, 2–6–62, Cl. 32—32.
Hinze, Otto: *See*—
Blank, Wilhelm. 3,035,805.
Hipkins, Clement C.: *See*—
Andrew, Harold B. Hipkins, and Towsley. 3,016,310.

Hipp, William J., to Webster Electric Co. Clutch and brake valve. 3,020,721, 2–13–62, Cl. 60—97.

Hipp, William J., to Webster Electric Co. Four way valve with pilot operated check valve. 3,030,929, 4–24–62, Cl. 121—40.

Hippe, Richard, and G. Schussler, to Zwirnerei Ackermann Werk der Ackermann-Goggingen A.G. Magnetically supported false twist tubes and the like. 3,059,408, 10–23–62, Cl. 57—77.45.

Hipps, Herbert E. Clothes and valise carrying device. 3,020,989, 2–13–62, Cl. 190—41.

Hi-Products, Inc.: *See*—
Rosenlund, Gordon T. 3,037,104.

Hirakis, Emanuel C., to Horizons Inc. Protection of niobium. 3,057,048, 10–9–62, Cl. 29—194.

Hirano, Katsuaki: *See*—
Miyahara, Hisao, Hirano, Suzumura, and Nagano. 3,058,-862.

Hirano, Katsuaki, M. Takada, S. Kawamura, H. Suzumura, and K. Nagano, to Kurashiki Rayon Co., Ltd. Method of manufacturing polyvinyl alcohol films. 3,061,884, 11–6–62, Cl. 18—48.

Hirao, Motozo, K. Haruta, Y. Kuwatsuka, E. Munekata, and S. Imamoto, to Asahi Kasei Kogyo Kabushiki Kaisha. Method for continuous production of a basic cupric sulfate. 3,025,136, 3–13–62, Cl. 23—125.

Hiratsuka, Kizo, S. Matsumura, M. Matsuda, K. Takagi, Z. Kasawara, T. Ono, T. Abe and N. Ozawa. Process for the cyclic production of hydrogen peroxide. 3,038,786, 6–12–62, Cl. 23—207.

Hird, Clarence W., to The General Fireproofing Co. Utility compartment for desks. 3,031,246, 4–24–62, Cl. 312—197.

Hird, Robert W. Defrosting device. 3,033,967, 5–8–62, Cl. 219—19.

Hirk, William F. Monogramming and embroidering machines. 3,057,310, 10–9–62, Cl. 112—78.

Hirosawa, Frank N., and J. Delmonte. Curing agent comprising the reaction product of an aliphatic polyamide and an aldehyde and epoxy resin cured therewith. 3,026,-285, 3–20–62, Cl. 260—45.2.

Hirs, Gene. Parts transporting and storage apparatus. 3,052,070, 9–4–62, Cl. 53—55.

Hirsch, Abraham A. Dust ring mounted change gear finding scale for water meter testing. 3,016,731, 1–16–62, Cl. 73—3.

Hirsch, Abraham A. Externally controlled fog wiper for liquid meter register glasses. 3,027,586, 4–3–62, Cl. 15—250.

Hirsch, Alfred, and F. B. Slezak, to Diamond Alkali Co. Trihalo-2,4-dioxohexahydro-1,3,5-triazines and method of preparing same. 3,040,044, 6–19–62, Cl. 260—248.

Hirsch, Arnold J. Methods of root canal and periodontal therapy. 3,035,351, 5–22–62, Cl. 32—40.

Hirsch, Arthur G.: *See*—
Williams, Jack A., and Hirsch. 3,020,199.

Hirsch, Arthur G., to Standard Oil Co. Water-emulsion polish composition. 3,028,350, 4–3–62, Cl. 260—28.

Hirsch, Arthur G., and J. O. Knobloch, to Standard Oil Co. Resolution of trimellitic anhydride and benzene dicarboxylic acids. 3,032,559, 5–1–62, Cl. 260—346.3.

Hirsch, Arthur G., B. A. Bolton, and T. A. Shelby, to Standard Oil Co. Composition consisting essentially of (a) a reaction product of trimellitic anhydride and alkylene oxide and (b) an epoxy resin. 3,062,770, 11–6–62, Cl. 260—32.8.

Hirsch, Arthur G., B. A. Bolton, and R. E. Van Strien, to Standard Oil Co. Catalyst for water-soluble baking type resins. 3,067,157, 12–4–62, Cl. 260—29.2.

Hirsch, Carl. Attachment for printing presses. 3,033,111, 5–8–62, Cl. 101—272.

Hirsch, Charles J., to Hazeltine Research, Inc. Color-television camera. 3,015,689, 1–2–62, Cl. 178—5.4.

Hirsch, Charles J., to Hazeltine Research, Inc. Apparatus for cooling a high-speed missile. 3,034,439, 5–15–62, Cl. 102—92.5.

Hirsch, Georg. Pressure and force multiplying devices. 3,059,433, 10–23–62, Cl. 60—54.5.

Hirsch, Irving: *See*—
Kinigsberg, David, and Hirsch. 3,037,704.

Hirsch, Irwin L.: *See*—
Sheeter, George O., and Hirsch. 3,047,888.

Hirsch, Julius A., and L. Small, to Cutter Cravat, Inc. Fastening device and manner of attaching the same. 3,019,-445, 2–6–62, Cl. 2—145.

Hirsch, Louis W. Automatic drill with sensing head. 3,051,-023, 8–28–62, Cl. 77—32.4.

Hirsch, Mahlon E.: *See*—
Cook, Calvin S., Hirsch, Lohr, and Rees. 3,040,461.

Hirsch, Mahlon E., and R. J. Lohr, to Louis Marx & Co., Inc. Toy cap gun. 3,045,377, 7–24–62, Cl. 42—57.

Hirsch, Mahlon E., and R. J. Lohr, to Louis Marx & Co., Inc. Lever operated toy cap gun. 3,057,102, 10–9–62, Cl. 42—57.

Hirsch, Marian F.: *See*—
Graf, Samuel E., and Hirsch. 3,061,454.

Hirsch, Ralph M. Cryptographic ancillary equipment. 3,057,-955, 10–9–62, Cl. 178—22.

Hirsch, Richard C. Vertical mount hand gun case. 3,031,069, 4–24–62, Cl. 206—16.

Hirsch, Ursula: *See*—
McCormick, Jerry R. D., Sjolander, Hirsch, and Reichenthal. 3,038,005.
McCormick, Jerry R. D., Sjolander, Hirsch, and Reichenthal. 3,069,326.

Hirsch, Winfred, and R. M. Stoltz. Neurological sponge. 3,029,818, 4–17–62, Cl. 128—296.

Hirsch, Winfred, and R. M. Stoltz. Conductive sutures. 3,055,583, 5–22–62, Cl. 128—335.5.

Hirschbeck, Josef, and H. Steinrötter, to Farbwerke Hoechst Aktiengesellschaft vormais Meister Lucius & Brüning. Process for separating carbon monoxide and olefins from gaseous mixtures. 3,026,172, 3–20–62, Cl. 23—2.

Hirschberger, George: *See*—
Reimer, Frederick, and Hirschberger. 3,049,102.

Hirschfeld, Gerhard, W. Hinz, and H. Fritzsche, to International Standard Electric Corp. Sorting equipment. 3,029,944, 4–17–62, Cl. 209—111.5.

Hirschfeld, Gerhard, W. Hinz, and H. Fritzsche, to International Standard Electric Corp. Article sorting control apparatus. 3,035,694, 5–22–62, Cl. 209—75.

Hirschfeld, Gerhard, W. Hinz, and H. Fritzsche, to International Standard Electric Corp. Apparatus for detecting characteristic markings. 3,069,653, 12–18–62, Cl. 340—146.3.

Hirschfeld, Oscar W. Bank for paper money. 3,026,023, 3–20–62, Cl. 232—4.

Hirschhauser, Arthur: *See*—
Lepper, Erich, and Hirschhauser. 3,025,605.

Hirschler, Alfred E., to Sun Oil Co. Siliceous cracking catalyst with a discontinuous surface glaze. 3,044,954, 7–17–62, Cl. 208—114.

Hirschler, Daniel A., Jr., to Ethyl Corp. Crankcase lubricant compositions. 3,055,830, 9–25–62, Cl. 252—59.

Hirschman-Pohle Co., Inc.: *See*—
Weingartner, Gerald A. 3,065,572.

Hirschmann, Ralph F.: *See*—
Chemerda, John M. and Hirschmann. 3,068,243.
Tishler, Max, Steinberg, and Hirschmann. 3,067,193.
Tishler, Max, Steinberg, and Hirschmann. 3,067,194.

Hirschmann, Ralph F., to Merck & Co., Inc. Improved process for the production of fluoro hydroxy steroids. 3,049,556, 8–14–62, Cl. 260—397.45.

Hirschmann, Ralph F., to Merck & Co., Inc. Antihemorrhagic compounds and processes for preparing the same. 3,051,-738, 8–28–62, Cl. 260—461.

Hirschmann, Ralph F., and A. J. Basso, to Merck & Co., Inc. Preparation of dihydrovitamin K1 diphosphate alkali metal salts. 3,065,255, 11–20–62, Cl. 260—461.

Hirschmann, Richard, Radiotechnisches Werk: *See*—
Rottmann, Hans-Peter. 3,032,737.

Hirsekorn, Fred S., and J. H. Rains, to Frontier Chemical Co., Division of Vulcan Materials Co. Stabilization of chlorinated hydrocarbons. 3,029,297, 4–10–62, Cl. 260—652.5.

Hirsekorn, Fred S., and J. H. Rains, to Frontier Chemical Co., Division of Vulcan Materials Co. Stabilization of chlorinated hydrocarbons with nitriles. 3,029,298, 4–10–62, Cl. 260—652.5.

Hirsh, Donald H.: *See*—
Montagna, Amelio E., and Hirsh. 3,021,373.
Montagna, Amelio E., and Hirsh. 3,023,250.

Hirsh, Donald H., and C. E. Hodges, to Union Carbide Corp. Process for the production of ethylene dichloride. 3,042,-728, 7–3–62, Cl. 260—661.

Hirsh, Joseph. Aqueous solutions of higher fatty alcohols and higher fatty alcohol esters and a method for preparing the same. 3,052,607, 9–4–62, Cl. 167—82.

Hirsh, Joseph J. Lanolin transparent emulsions. 3,052,608, 9–4–62, Cl. 167—90.

Hirshfield, Julian J., and E. V. Burnthall, to Monsanto Chemical Co. Method for producing flame and soil resistant acrylic polymer fibers containing carpet fabric. 3,047,425, 7–31–62, Cl. 117—137.

Hirshhorn, Martin, to Sign-O-Matic Ltd. Advertising devices. 3,060,604, 10–30–62, Cl. 40—32.

Hirst, Archie J., to Metalastik Ltd. Vehicle suspension system. 3,028,856, 2–13–62, Cl. 105—197.

Hirst, Archie J., to Metalastik Ltd. Method of making a resilient mounting. 3,028,665, 4–10–62, Cl. 29—450.

Hirst, Archie J., to Metalastik Ltd. Side bearers for railway vehicles. 3,045,998, 7–24–62, Cl. 267—3.

Hirst, Archie J., to Metalastik Ltd. Torsional vibration dampers. 3,062,072, 11–6–62, Cl. 74—574.

Hirst, Arthur A., and A. N. Burns, to Coal Industry (Patents) Ltd. Rotary valves. 3,058,488, 10–16–62, Cl. 137—596.

Hirst Electronic Ltd.: *See*—
Morris, John D., and Hirst. 3,034,016.

Hirst, Stanley, and W. C. Aston, to Imperial Chemical Industries Ltd. Apparatus for the reduction of metals or alloys. 3,049,035, 8–14–62, Cl. 78—36.

Hirst, Sydney: *See*—
Morris, John D., and Hirst. 3,034,016.

Hirst, Wallace: *See*—
Lancaster, John K., Milner, and Hirst. 3,027,449.

Hirt, Edwin R., to Food Systems, Inc. Article lifting device and system. 3,061,352, 10–30–62, Cl. 294—65.

Hirt, Robert E., to Continental Copper & Steel Industries, Inc. Reel play-off stand. 3,069,107, 12–18–62, Cl. 242—79.

Hirth, Leo J., M. Spielman, and C. R. Landgren, to Esso Research and Engineering Co. Process for chloromethylating aromatic hydrocarbons. 3,069,480, 12–18–62, Cl. 260—651.

Hirtler, Erno: *See*—
Wenner, Valentin, and Hirtler. 3,065,076.

Hirtreiter, Arthur B., to The Goodyear Tire & Rubber Co. Rolling lobe type air spring and method of manufacture. 3,043,582, 7–10–62, Cl. 267—65.
Hirtz, Alfred, to Societe Rateau. Rockable-shoe bearing with variable clearance and initial load. 3,063,762, 11–13–62, Cl. 308—73.
Hirtz & Co. Firma : *See*—
Hirtz, Hans and H.-J. 3,045,670.
Hirtz, Hanns-Joachim : *See*—
Hirtz, Hans and H.-J. 3,045,670.
Hirtz, Hans and H.-J., to Hirtz & Co., Firma. Inhalator. 3,045,670, 7–24–62, Cl. 128—192.
Hirtz, John F. : *See*—
Jaye, Richard C., and Hirtz. 3,064,639.
Hirvonen, Eric J., to Leland-Gifford Co. Boring bar construction. 3,019,674, 2–6–62, Cl. 77—58.
Hirzel, Edgar A., to The Goodyear Tire & Rubber Co. Disc brake and pressure applying means therefor. 3,038,559, 6–12–62, Cl. 188—72.
Hise, Eugene C. Metal diaphragm pumps. 3,036,526, 5–29–62, Cl. 103—44.
Hise, Marvin L., and M. A. Welch ; said Welch assor. to Ponca City Industrial Foundation. Apparatus for removing discrete solid material from a pit. 3,030,080, 4–17–62, Cl. 259—6.
Hiser, Robert D., to Union Carbide Corp. Preparation of para-(beta-substituted vinyl) styrene and intermediate products. 3,057,932, 10–9–62, Cl. 260—651.
Hiser, Wilber F., and S. D. McCarty, to Jersey Production Research Co. Offshore apparatus. 3,032,135, 5–1–62, Cl. 175—7.
Hi-Shear Corp. : *See*—
Batten, Ronald W. 3,047,182.
Hi-Shear Rivet Tool Co. : *See*—
Bochman, Harry L., Jr. 3,027,789.
Wing, George S. 3,041,902.
Hislop, John A., to Vard Products Inc. Track type drafting machine. 3,047,954, 8–7–62, Cl. 33—76.
Hi-Speed Checkweigher Co., Inc. : *See*—
Del Rosso, Victor. 3,070,214.
Hisserich, Charles A. Motion transmission system. 3,033,050, 5–8–62, Cl. 74—229.
Hisserich, Charles A., and D. G. Reed, to United States of America, Navy. Acoustic detector. 3,031,644, 4–24–62, Cl. 340—3.
Histed, William N. Heat sealing and cutting apparatus. 3,028,294, 4–3–62, Cl. 156—515.
Hitch, Eric G., B. A. Pells, and C. H. J. Fleetwood, to Siemens Edison Swan Ltd. Communication systems. 3,030,445, 4–17–62, Cl. 179—1.
Hitch, Robert A. : *See*—
Abolins, Andrew, and Hitch. 3,052,941.
Hitchcock, Edward M., to Woodward, Inc. Self adjusting drawer guide. 3,035,880, 5–22–62, Cl. 312—332.
Hitchcock, Eugene B., to Can-Rite, Inc. Can carrying apparatus. 3,070,398, 12–25–62, Cl. 296—24.
Hitchcock, John H., to Morgan Construction Co. Rolling mill. 3,066,558, 12–4–62, Cl. 80—31.1.
Hitchcock, Paul C., to The Chase-Shawmut Co. Manufacturing fuse-links having a rivet insert of a low fusing point metal. 3,042,794, 7–3–62, Cl. 219—150.5.
Hitchings, George H., and S. Bieber, to Burroughs Wellcome & Co. (U.S.A.) Inc. Urethan and 6 azauracil in cancer therapy. 3,019,164, 1–30–62, Cl. 167—65.
Hitchings, George H., G. B. Elion, and L. E. Mackay, to Burroughs Wellcome & Co. (U.S.A.) Inc. 6-thiocyanopurines and method of their preparation. 3,019,224, 1–30–62, Cl. 260—252.
Hitchings, George H., and R. K. Robins, to Burroughs Wellcome & Co. (U.S.A.) Inc. Pyrido (2,3-d) pyrimidine compounds and method of making. 3,021,332, 2–13–62, Cl. 260—256.4.
Hitchings, George H., K. W. Ledig, and R. A. West, to Burroughs Wellcome & Co. (U.S.A.) Inc. Pyrrolopyrimidine vasodilators and method of making them. 3,037,980, 6–5–62, Cl. 260—256.4.
Hitchings, George H., G. B. Elion, and I. Goodman, to Burroughs Wellcome & Co. (U.S.A.) Inc. Purine 6-thiolycosides. 3,050,517, 8–21–62, Cl. 260—209.
Hitchings, George H., and G. B. Elion, to Burroughs Wellcome & Co. (U.S.A.) Inc. Purine derivatives. 3,056,785, 10–2–62, Cl. 260—252.
Hitchins, Robert G. : *See*—
Cook, Alan H., and Hitchins. 3,053,987.
Hite, Bernard E., to Carbide Grinders, Inc. Tool finishing process and apparatus. 3,020,681, 2–13–62, Cl. 51—122.
Hitson, Pierson H. Adjustable guard for electric clippers. 3,041,726, 7–3–62, Cl. 30—201.
Hitt, Otis D., E. F. Knapp, L. L. Johnson, and R. A. Rosenblum, to The Aro Equipment Corp. Transmission. 3,018,673, 1–30–62, Cl. 74—785.
Hitt, William C., to Douglas Aircraft Co., Inc. Ultrasonic thickness comparator. 3,058,328, 10–16–62, Cl. 73—67.8.
Hittle, Carl E., to Radio Corp. of America. Combination motor control system. 3,048,754, 8–7–62, Cl. 318—42.
Hitz, Gifford L. Process of bending metal by wave formation. 3,036,622, 5–29–62, Cl. 153—32.
Hitzman, Donald O., to Phillips Petroleum Co. Microbiological secondary recovery. 3,032,472, 5–1–62, Cl. 195—3.
Hitzman, Donald O., to Phillips Petroleum Co. Treatment of hydrocarbons. 3,069,325, 12–18–62, Cl. 195—3.
Hively, Ada G. : *See*—
McDowel, Edwin J. 3,059,684.
Hix, Hugh B., to E. I. du Pont de Nemours and Co. Niobium-titanium chromium alloy. 3,043,683, 7–10–62, Cl. 75—174.
Hix, Ira M. : *See*—
Battison, Alvin H., Hix, Smith, and Wilkerson. 3,055,582.
Hixenbaugh, Gale D. : *See*—
Schmidt, Louis V., and Hixenbaugh. 3,045,954.
Hixon, Philip E., and E. E. White. Automatic replenishing system. 3,068,886, 12–18–62, Cl. 137—266.
Hiyama, Kazuo. Retractable scaffold. 3,063,514, 11–13–62, Cl. 182—63.
Hjälsten, John A., to Sandvikens Jernverks Aktiebolag. Drill bit. 3,062,306, 11–6–62, Cl. 175—409.
Hjärtsiter, Jacob J., to Fibre Making Processes, Inc. Barking drum. 3,029,943, 2–13–62, Cl. 144—208.
Hjelte, George. Wall climber. 3,032,344, 5–1–62, Cl. 272—60.
Hjelte, George. Exercising device. 3,048,396, 8–7–62, Cl. 272—56.
Hjelte, Sixten M., to AB Calor & Sjogren. Apparatus for mixing and working material. 3,064,908, 11–20–62, Cl. 241—252.
Hjernstad, Erling T., to Penick & Ford, Ltd. Inc. Modification of starch with phosphates and amides. 3,069,411, 12–18–62, Cl. 260—233.3.
Hjernstad, Erling T., and C. C. Kesler, to Penick & Ford, Ltd., Inc. Starch ether derivatives and process for preparing same. 3,062,810, 11–6–62, Cl. 260—233.3.
Hjertstrand, Svante L., to International Standard Electric Corp. Signalling arrangement for automatic telephone systems. 3,055,986, 9–25–62, Cl. 179—90.
Hjorth, Eugene F., to Western Electric Co., Inc. Bit for wire wrapping gun. 3,028,107, 4–3–62, Cl. 242—7.
Hlavacek, Robert J., J. E. Sauvage, and N. Swift, to Swift & Co. Animal runways. 3,039,135, 6–19–62, Cl. 17—1.
Hlavacek, Robert J., J. E. Sauvage, and J. W. Dillehay, to Swift & Co. Apparatus for restraining animals. 3,051,984, 9–4–62, Cl. 17—1.
Hlavacek, Robert J., J. E. Sauvage, J. W. Dillehay, and N. Swift, to Swift & Co. Apparatus for stunning animals. 3,055,046, 9–25–62, Cl. 17—1.
Hlavacek, William J., and W. B. Fleming, to Tee-Pak. Inc. Article banding method. 3,023,554, 3–6–62, Cl. 53—3.
Hlavka, Joseph J., and J. H. Boothe, to American Cyanamid Co. Preparation of 7-halo-6-deoxy-tetracyclines. 3,036,129, 5–22–62, Cl. 260—559.
Hlinsky, Emil J. : *See*—
Evans, Nolan E., and Hlinsky. 3,025,042.
Hlinsky, Emil J., and R. C. Lundquist, to Goodman Mfg. Co. Rotary mining head and core breaker therefor. 3,050,293, 8–21–62, Cl. 262—9.
Hlynsky, Alex, to Diamond Alkali Co. Process for preparation and recovery of 2,5-dichloro-p-xylene. 3,035,103, 5–15–62, Cl. 260—650.
Hnilicka, Milo P., Jr. : *See*—
Eng, Albert, Hnilicka, Light, and Walsh. 3,040,702.
Hnilicka, Milo P., Jr., to National Research Corp. Vacuum device. 3,019,016, 1–23–62, Cl. 220—10.
Hoadley, George B., to United States of America, Army. Micro-wave antenna. 3,019,437, 1–30–62, Cl. 343—725.
Hoadley, Harold A. : *See*—
Olson, Conrad, and Hoadley. 3,029,549.
Hoadley, Harry W. Rotary internal combustion engine. 3,056,391, 10–2–62, Cl. 123—16.
Hoadley, Henry H., to United Aircraft Corp. Sandwich structure. 3,031,046, 4–24–62, Cl. 189—34.
Hoadley, Lemuel D., R. J. McGrath, and R. H. Morgan, to National Steel Corp. Tuyere and bosh cooling system. 3,053,524, 9–11–62, Cl. 266—32.
Hoag, John K., and E. F. Schutt, to Wilmot Castle Co. Mounting for dental chair stools. 3,016,223, 1–9–62, Cl. 248—194.
Hoag, Selwyn B., Jr., and R. H. Kander. Combination pipe tamper and reamer. 3,066,682, 12–4–62, Cl. 131—243.
Hoag, William G., and T. E. Lohr, to General Motors Corp. Window drive mechanism. 3,062,527, 11–6–62, Cl. 268—121.
Hoagland, Albert S., and L. D. Seader, to International Business Machines Corp. Data storage system. 3,034,111, 5–8–62, Cl. 340—174.1.
Hoare, Robert C. : *See*—
Downey, John F., and Hoare. 3,018,154.
Hoban, Inc. : *See*—
Mould, Harry W., Jr. 3,045,134.
Hobart, Charles C., Sr. Method and apparatus for concentrating sand. 3,033,371, 5–8–62, Cl. 209—458.
Hobart, Leo G., and L. E. Loper. Eccentrically adjustable bearing. 3,017,061, 1–16–62, Cl. 226—177.
Hobart Mfg. Co., The : *See*—
Allen, Kenneth C. 3,037,563.
Allen, Kenneth C. 3,044,691.
Allen, Kenneth C. 3,045,229.
Allen, Kenneth C., Boshinski, and Meeker. 3,057,554.
Focht, Ronald E. 3,021,988.
Fox, Gerald B. 3,067,757.
Fox, Gerald B., Vandeveer, and Welch. 3,044,092.
Hartley, Richard S. 3,051,207.
Hartley, Richard S., and Hannah. 3,054,431.
Meeker, David A., and Fox. 3,049,391.

Hobbs, Doreen Y. : *See*—
Ranby, Peter W., and Hobbs. 3,037,941.
Ranby, Peter W., and Hobbs. 3,049,497.
Hobbs, Frank S. Watersports float. 3,048,395, 8–7–62, Cl. 272—1.
Hobbs, Henry G. : *See*—
Haynie, Calvin A. 3,064,842.
Hobbs, Hensley C. : *See*—
Casey, John E., and Hobbs. 3,038,609.
Hobbs, Howard F., to Hobbs Transmission Ltd. Variable speed transmission apparatus. 3,043,163, 7–10–62, Cl. 74—767.
Hobbs, James C., II : *See*—
Griffitts, James J., and Hobbs. 3,060,937.
Hobbs Transmission Ltd. : *See*—
Hobbs, Howard F. 3,043,163.
Hobbs, Willard E., to United States of America, Atomic Energy Commission. Method of preparing uranium pentafluoride. 3,035,894, 5–22–62, Cl. 23—14.5.
Hobbs, William, Jr. : *See*—
Kline, Charles M., and Hobbs. 3,034,667.
Hobbs, William, Jr., to Sperry Rand Corp. Grain bin and cleaner. 3,039,607, 6–19–62, Cl. 209—133.
Hobbs, William, Jr., to Sperry Rand Corp. Bucket elevator. 3,040,873, 6–26–62, Cl. 198—152.
Hoberg, George G., J. R. Van Andel, and E. W. Veitch, to Burroughs Corp. Computer shift control circuits. 3,050,-717, 8–21–62, Cl. 340—174.1.
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Hobin, Martin A. : *See*—
Foos, Raymond A., and Hobin. 3,053,614.
Hoblitzelle, Karl S. J. Magnetic ram pump. 3,031,970, 5–1–62, Cl. 103—46.
Hobourn-F.N.F. Ltd. : *See*—
Porter, Allan W. H. 3,070,325.
Ho-Boy Corp. : *See*—
Satrum, Clarence R. 3,064,231.
Hobrough, Gilbert L., to Hunting Survey Corp. Ltd. Pulse time discriminating system using switched dual anode beam tube. 3,064,198, 11–13–62, Cl. 328—109.
Hobson, Charles W., to (Mrs.) N. Hobson. Bracket and shelf supports. 3,039,622, 6–19–62, Cl. 211—148.
Hobson, Eric D., to Yarrow and Co. Ltd. and Andre Rubber Co. Ltd. End fittings for suction pipes. 3,017,898, 1–23–62, Cl. 137—590.
Hobson, H. M., Ltd. : *See*—
Fellows, Horace. 3,029,637.
Westbury, Roy, Courtenay, and Edwards. 3,023,638.
Hobson, Harry E. Headlight. 3,069,538, 12–18–62, Cl. 240—59.
Hobson, Lloyd H., to Plastering Development Center, Inc. Method of applying plaster. 3,035,940, 5–22–62, Cl. 117—104.
Hobson, Lloyd H., to Plastering Development Center, Inc. Plaster applying apparatus. 3,042,316, 7–3–62, Cl. 239—415.
Hobson, Lloyd L. Lift truck attachment. 3,023,919, 3–6–62, Cl. 214—620.
Hobson, (Mrs.) Nancy : *See*—
Hobson, Charles W. 3,039,622.
Hobson, Patrick H., to The Chemstrand Corp. Stabilized solutions of acrylonitrile polymers. 3,029,214, 4–10–62, Cl. 260—32.6.
Hobson, Paul D., to Shell Oil Co. Method of preparing polyvalent metal petroleum sulfonates and mineral lubricating oil containing same. 3,041,278, 6–26–62, Cl. 252—32.7.
Hobson, Robert R., and H. G. Wilcox, to General Electric Co. Linear motion-producing device and improved locking means therefor. 3,020,887, 2–13–62, Cl. 121—40.
Hobson, Russell B., Jr., to Per Corp. Pressure filter shell and tube assembly. 3,034,652, 5–15–62, Cl. 210—232.
Hobson, William V., and J. W. Zimmerman. Automobile carrier for outboard motor. 3,039,634, 6–19–62, Cl. 214—450.
Hoch, H., & Sons : *See*—
Gaylord, John A. 3,038,472.
Hoch, John : *See*—
Zunker, Harold D., and Hoch. 3,032,734.
Hoch, Morton : *See*—
Deutsch, Sidney, and Hoch. 3,054,539.
Hoch, Paul E., to Hooker Chemical Corp. 1,4,5,6,7,7-hexachloro-2-ethylbicyclo-(2.2.1)-heptene-5. 3,040,106, 6–19–62, Cl. 260—648.
Hoch, Paul E., to Hooker Chemical Corp. Polyalogen-containing bicyclic compounds. 3,040,107, 6–19–62, Cl. 260—648.
Hoch, Paul E., to Hooker Chemical Corp. Preparation of 1,2,3,4,5,6,7,7 - octachloro - 2 - methylbicyclo - (2.2.1)-heptene-5. 3,062,898, 11–6–62, Cl. 260—648.
Hoch, Paul E., and J. S. Newcomer, to Hooker Chemical Corp. Halogen containing polyhydric alcohols. 3,055,948, 9–25–62, Cl. 260—611.
Hoch, Robert G. : *See*—
Bailey, Wilburn R., and Hoch. 3,064,897.
Hochberg, Jerome, to E. I. du Pont de Nemours and Co. Method of making laminated structures. 3,042,574, 7–3–62, Cl. 156—286.
Hochberg, Jerome, to E. I. du Pont de Nemours and Co. Stable non-woven batt of polytetrafluoroethylene fibers. 3,059,311, 10–23–62, Cl. 28—72.2.
Hochberg, Melvin : *See*—
Ratish, Herman D., and Hochberg. 3,067,105.
Hochberg, Melvin, and C. Ely, to Nopco Chemical Co. Stable fat-soluble vitamin compositions. 3,067,104, 12–4–62, Cl. 167—81.
Hochberg, Seymore, to E. I. du Pont de Nemours and Co. Process for inhibiting hydrogen popping. 3,065,102, 11–20–62, Cl. 117—49.
Hochberman, Jehiel : *See*—
Hochberman, Morris Z. 3,045,261.
Hochberman, Morris Z., to J. Hochberman. Combination sleeping bag and knapsack. 3,045,261, 7–24–62, Cl. 5—343.
Hochgraf, Norman N., to Esso Research and Engineering Co. Method for improving CAA acetylene removal. 3,017,442, 1–16–62, Cl. 260—681.5.
Hochgraf, Norman N., R. H. Schatz, and B. R. Tegge, to Esso Research and Engineering Co. Polymerization diluent fractionation. 3,052,665, 9–4–62, Cl. 260—93.7.
Hochhalter, Edward, and C. E. Anderson. Collapsible stoves. 3,056,396, 10–2–62, Cl. 126—9.
Hochman, Leonard. Table cover for holding playing cards. 3,023,005, 2–27–62, Cl. 273—136.
Hochman, Robert F., to Minneapolis-Honeywell Regulator Co. Metal-Ceramic seal. 3,032,869, 5–8–62, Cl. 29—472.7.
Hochmuth, Frank W., to Combustion Engineering, Inc. Soot blower. 3,069,715, 12–25–62, Cl. 15—317.
Hochner, Walter L. : *See*—
Lawrence, Winthrop S., and Hochner. 3,057,018.
Hochreiter, William T. : *See*—
Bundschuh, John J., Craig, and Hochreiter. 3,016,811.
Hochschild, Richard, to The Budd Co. Electromagnetic testing. 3,056,081, 9–25–62, Cl. 324—37.
Hochstein, Francis A. : *See*—
Tanner, Fred W., Jr., Hochstein, and Murai. 3,022,347.
Hock, Kenneth R., and W. P. Paige, to The Dow Chemical Co. Method of preparing blend of resin, pigment and sucrose diacetate hexaisobutyrate and resulting composition. 3,067,153, 12–4–62, Cl. 260—17.4.
Hock, Lawrence R. Apparatus for spinning a lateral flange on a tube. 3,050,102, 8–21–62, Cl. 153—81.
Hock, Lester R. Collapsible cabinet. 3,061,396, 10–30–62, Cl. 312—258.
Hockenberger, Robert H. : *See*—
Carlson, Ronald F., Hockenberger, and McDougal. 3,034,758.
Hockenhull, Donald J. D., to Glaxo Laboratories Ltd. Process for the production of griseofulvin. 3,038,839, 6–12–62, Cl. 195—80.
Hockenhull, Donald J. D., to Glaxo Laboratories Ltd. Production of griseofulvin. 3,069,328, 12–18–62, Cl. 195—81.
Hockensmith, Wilbur D., Jr. Semi-trailer frame and chassis. 3,043,628, 7–10–62, Cl. 298—20.
Hocker, Lon. Voting machines. 3,024,974, 3–13–62, Cl. 235—51.
Hockert, Chester E., to General Motors Corp. Blade retainer. 3,039,740, 6–19–62, Cl. 253—77.
Hockery, John C. : *See*—
Chappell, William A., and McLean. 3,059,332.
Landry, William J. 3,059,333.
Rogers, Ezra S., and Scott. 3,018,548.
Hockett, John A. Combination utility cart and extension ladder. 3,020,972, 2–13–62, Cl. 182—15.
Hocking, Ronald P. : *See*—
Ayton, William R., Ginnings, and Hocking. 3,020,636.
Hockings, Eric F., to Radio Corp. of America. Thermoelectric compositions and devices utilizing them. 3,061,657, 10–30–62, Cl. 136—5.
Hockings, Eric F., and W. L. Mularz, to Radio Corp. of America. Method and materials for thermoelectric bodies. 3,037,065, 5–29–62, Cl. 136—5.
Hocutt, Morris G., and C. T. McLuen, to General Motors Corp. Afterburner fuel igniter. 3,019,598, 2–6–62, Cl. 60—35.6.
Hodag Chemical Corp. : *See*—
Kent, Sheldon E. 3,061,478.
Hoddy, George W., G. L., and R. A., to Universal Electric Co. Bearing structure. 3,063,761, 11–13–62, Cl. 308—72.
Hoddy, Gerald L. : *See*—
Hoddy, George W., G. L., and R. A. 3,063,761.
Hoddy, Raymond A. : *See*—
Hoddy, George W., G. L., and R. A. 3,063,761.
Hodes, William : *See*—
Segro, Nicholas R., and Hodes. 3,044,972.
Hodes, William, and R. E. Van Strien, to Standard Oil Co. Dialkyl alkyl esters of benzenepolycarboxylic acids. 3,046,-258, 7–24–62, Cl. 260—78.5.
Hodes, William, and L. S. Meriwether, to American Cyanamid Co. Polymerization of formaldehyde by nickel-phosphine complexes. 3,054,775, 9–18–62, Cl. 260—67.
Hodge, Allen W., and E. M. Smith, to Kaiser Aluminum & Chemical Corp. Aluminizing of ferrous metal and product. 3,057,050, 10–9–62, Cl. 29—196.2.
Hodge, Edward B. : *See*—
Bennett, Edward O., and Hodge. 3,024,190.
Bennett, Edward O., and Hodge. 3,024,192.
Bennett, Edward O., and Hodge. 3,054,749.
Hodge, Edward B., to Commercial Solvents Corp. Reaction products of nitroolefins and carbonyl compounds. 3,024,232, 3–6–62, Cl. 260—244.

Hodge, Edward B., to Commercial Solvents Corp. Nematocidal 4-amino-3-isoxazolidone process. 3,054,720, 9–18–62, Cl. 167—33.
Hodge, Edward B., to Commercial Solvents Corp. Nematocidal 5-amino-5-methyl-1,3-bis(2-ethylhexyl) - hexahydropyrimidine process. 3,054,721, 9–18–62, Cl. 167—33.
Hodge, Edward B., to Commercial Solvents Corp. Process for the control of bacteria in water flooding operations in secondary oil recovery. 3,054,748, 9–18–62, Cl. 252—8.55.
Hodge, John E., and E. C. Nelson, to United States of America, Agriculture. Preparation of O-galactosylisomaltol. 3,015,654, 1–2–62, Cl. 260—210.
Hodge, John E., and E. C. Nelson, to United States of America, Agriculture. Process for preparing isomaltol. 3,054,-805, 9–18–62, Cl. 260—345.9.
Hodgen, Carl S. Ornamental table top. 3,062,604, 11–6–62, Cl. 311—106.
Hodges, Charles E.: *See*—
Hirsh, Donald H., and Hodges. 3,042,728.
Hodges, Charles E., to Union Carbide Corp. Process for the production of vinyl chloride. 3,055,955, 9–25–62, Cl. 260—656.
Hodges, Hayden D., and J. T. Dean, to Socony Mobil Oil Co., Inc. Unbalanced bridge measurements of borehole temperature. 3,044,298, 7–17–62, Cl. 73—362.
Hodges, Howard T., to Eastman Kodak Co. Visual cycle-timer. 3,043,091, 7–10–62, Cl. 58—39.5.
Hodges, James W., to Sun Oil Co. Packer assembly for multiple completion wells. 3,022,828, 2–27–62, Cl. 166—191.
Hodges, James W., to Sun Oil Co. Well assembly for reducing liquid level in well tubing. 3,022,829, 2–27–62, Cl. 166—224.
Hodges, James W., to Sun Oil Co. Lifting of liquid from well tubing. 3,031,976, 5–1–62, Cl. 103—229.
Hodges, Merwyn E., to General Electric Co. Temperature compensating transistor switching circuit with "snap action" response. 3,067,340, 12–4–62, Cl. 307—88.5.
Hodges, Ralph T., Jr.: *See*—
Reid, Curtis S., and Hodges. 3,035,349.
Hodges Research and Development Co.: *See*—
Williams, Beverly E. 3,016,501.
Williams, Beverly E. 3,026,206.
Williams, Beverly E. 3,034,906.
Williams, Beverly E. 3,056,679.
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Williams, Beverly E. 3,070,448.
Hodgins, John W., and T. T. Hoffman. Mass transfer from solid to gaseous stage by means of sonic energy. 3,054,191, 9–18–62, Cl. 34—4.
Hodgkiss, James W.: *See*—
Pearce, Frederick M., and Hodgkiss. 3,019,372.
Hodgman Mfg. Co., Inc.: *See*—
Cann, Frank E., Jr. 3,061,015.
Hodgman, Willis K., Jr. 3,061,016.
Hodgman, Willis K., Jr., to Hodgman Mfg. Co., Inc. Fusible link. 3,061,016, 10–30–62, Cl. 169—42.
Hodgson, Alfred W., to Westinghouse Electric Corp., A.C.-D.C. electromagnet. 3,018,421, 1–23–62, Cl. 317—154.
Hodgson, Alfred W., to Westinghouse Electric Corp. Phase-shift network. 3,059,175, 10–16–62, Cl. 323—110.
Hodgson, Russell L., and J. H. Raley, to Shell Oil Co. Preparation of diallylic compounds. 3,052,735, 9–4–62, Cl. 260—6.
Hodnett, Carl D. Drill attachment. 3,015,240, 1–2–62, Cl. 77—55.
Hoe, R., & Co., Inc.: *See*—
Brooks, Robert D. 3,027,106.
Flannery, Edward J., and Raymond. 3,015,454.
Hegeman, Andrew R., and Ringe. 3,018,727.
Kissh, Stephan J. 3,056,601.
Neal, Frank. 3,020,842.
Neal, Frank. 3,046,885.
Neal, Frank, and Bryer. 3,055,657.
Neal, Frank, and Pilitz. 3,065,693.
Poiglase, Burton C., Jr. 3,041,966.
Ringe, Carl H., and Harless. 3,019,729.
Trier, James J. 3,069,821.
Hoebing, Cyril J., to Fishing sinker molding apparatus. 3,015,137, 1–2–62, Cl. 22—57.
Hoeckele, Walter J., to Tapex Corp. Snap fastener applicator tools. 3,019,442, 2–6–62, Cl. 1—317.
Hoedemakers, Bartholomeus G. M.: *See*—
De Bruyne, Marinus A., Hoedemakers, and Hoogendonk. 3,055,049.
Hoefer, Karl: *See*—
Vogel, Rudolf, and Hoefer. 3,051,431.
Hoefer, Karl E., to Southern Mill Equipment Corp. Yarn feed fingers with removable guide inserts for knitting machines. 3,031,868, 5–1–62, Cl. 66—125.
Hoefle, Milton L.: *See*—
De Wald, Horace A., and Hoefle. 3,043,874.
Hoeflich, Marvin L. Combined socks and necktie display package. 3,069,009, 12–18–62, Cl. 206—78.
Hoeflich, Victor T. Tiara-like headwear for parties. 3,031,-681, 5–1–62, Cl. 2—198.
Hoeg, Donald F., and C. J. Benning, to W. R. Grace & Co. Propylene catalyst. 3,062,801, 11–6–62, Cl. 260—93.7.
Hoeganaes Development Co., Ltd.: *See*—
Carlstrom, Borge I., 3,067,172.
Carlström, Börge I., and Rumberg. 3,052,583.
Hoegerle, Rose-Marie: *See*—
Dickstein, Jack, and Hoegerle. 3,042,710.
Hoegl, Helmut, O. Sus, and W. Neugebauer, to Kalle Aktiengesellschaft. Electrophotographic reproduction material. 3,037,861, 6–5–62, Cl. 96—1.
Hoehn, John J.: *See*—
Ecker, Mario L., and Hoehn. 3,016,211.
Hoek, Adrain G., and M. N. Vessio. Collapsible table. 3,018,147, 1–23–62, Cl. 311—41.
Hoeksema, Herman, E. L. Caron, and J. W. Hinman, to The Upjohn Co. Tetrahydropyran derivatives of novobiocin. 3,026,331, 3–20–62, Cl. 260—345.9.
Hoekstra, Age H., and W. L. Wanmaker, to North American Philips Co., Inc. Method of increasing the light output of alkaline earth halophosphates. 3,060,129, 10–23–62, Cl. 252—301.4.
Hoekstra, James: *See*—
McCartney, Daniel E., and Hoekstra. 3,020,242.
Hoekstra, James, to Universal Oil Products Co. Method of catalyst manufacture. 3,031,419, 4–24–62, Cl. 252—442.
Hoekstra, John J.: *See*—
Karpiuk, Robert S., and Hoekstra. 3,029,143.
Karpiuk, Robert S., and Hoekstra. 3,029,144.
Hoel, Dean C., and G. W. Steahly, to Monsanto Chemical Co. Stabilization of rubber with O-phenylenediamines. 3,069,383, 12–18–62, Cl. 260—45.9.
Hoelle, James C., to Tokheim Corp. Vehicle fuel pumping apparatus. 3,039,658, 6–19–62, Cl. 222—180.
Hoeltje, Frederick W.: *See*—
Atkinson, Robert P., and Hoeltje. 3,041,832.
Hoelzer, Russell L., and G. J. Schmidt, to The Dow Chemical Co. Inking system. 3,060,852, 10–30–62, Cl. 101—364.
Hoen, Kenneth H.: *See*—
Brown, James D., and Hoen. 3,025,673.
Hoenick, Hans, to Firma Dr. Ing. h.c. F. Porsche K.G. V-belt transmission. 3,047,113, 7–31–62, Cl. 192—3.5.
Hoenick, Hans, to Firma Dr. Ing. h.c. F. Porsche K.G. Internal combustion engine. 3,060,902, 10–30–62, Cl. 121—194.
Hoenick, Hans, and E. Stotz, to Firma Dr. Ing. h.c. F Porsche K.G. Belt transmission. 3,037,395, 6–5–62, Cl. 74—230.19.
Hoenick, Hans, and K. Grewing, to Firma Dr. Ing. h.c. F. Porsche K.G. Transmission for vehicles. 3,062,060, 11–6–62, Cl. 74—15.84.
Hoenig, Sidney J. Ball-point pen-light. 3,045,111, 7–17–62, Cl. 240—6.46.
Hoeninghausen, Leverette: *See*—
Moro-Lin, Joseph J., and Hoeninghausen. 3,046,855.
Moro Lin, Joseph J., and Hoeninghausen. 3,066,583.
Moro Lin, Joseph J., and Hoeninghausen. 3,066,584.
Hoepli, Max H.: *See*—
Glaubert, Siegfried. 3,054,706.
Hoeppel, Raymond W. Oil base drilling and fracturing fluid. 3,021,277, 2–13–62, Cl. 252—8.5.
Hoeppner, Arthur D., to Bemis Bro. Bag Co. Bags. 3,023,-948, 3–6–62, Cl. 229—56.
Hoeppner, Arthur D., to Bemis Bro. Bag Co. Method of making bags. 3,069,978, 12–25–62, Cl. 93—35.
Hoeppner, Conrad H., and L. E. Williams, to Radiation, Inc. Magnetic displacement pickup. 3,038,345, 6–12–62, Cl. 73—517.
Hoeppner, Ernst: *See*—
Wankel, Felix, Froede, and Hoeppner. 3,064,880.
Hoer, Kenneth G., to Creed & Co. Ltd. Facsimile apparatus. 3,044,768, 7–17–62, Cl. 271—4.
Hoer, Kenneth G., to Creed & Co. Ltd. Facsimile apparatus. 3,060,262, 10–23–62, Cl. 178—7.1.
Hoerner Boxes, Inc.: *See*—
Carter, Eugene H. 3,055,573.
Salmon, Buster O. 3,050,234.
Wilson, Robert E. 3,055,624.
Hoerner, Hans: *See*—
Freundorfer, Roman, and Hoerner. 3,060,027.
Hoerni, Jean A., to Fairchild Camera and Instrument Corp. Method of manufacturing semiconductor devices. 3,025,-589, 3–20–62, Cl. 29—25.3.
Hoerni, Jean A., to Fairchild Camera and Instrument Corp. Semiconductor device. 3,064,167, 11–13–62, Cl. 317—234.
Hoesch Aktiengesellschaft: *See*—
Stark, Helmuth. 3,063,518.
Hoess, Joseph A.: *See*—
Simon, Ralph, Voorhees, Hoess, and Frisby. 3,052,429.
Hoey, Raymond M., and G. A. Kaiser, to The Kendall Co. Adhesive tape package. 3,051,307, 8–28–62, Cl. 206—65.
Hofer, Edmund L. Lawn sprinkler. 3,033,467, 5–8–62, Cl. 239—204.
Hofer, Franz: *See*—
Fahlbusch, Heinz, and Hofer. 3,059,916.
Hofer, Gerald, and F. Eheim, to Robert Bosch, G.m.b.H. Injection pump. 3,058,455, 10–16–62, Cl. 123—140.
Hofer, Jean P. Thread rolling method and apparatus. 3,048,064. 8–7–62, Cl. 80—6.
Hofer, Kurt, H. M. Hemmi, A. Peter, and K. Lutz, to Saul & Co., as nominee of Fidelity Union Trust Co. Incorporation of an organic basic compound into cellulose acetate materials. 3,033,640, 5–8–62, Cl. 8—61.
Hofer, Peter H., to Union Carbide Corp. Extruded contour coating. 3,068,516, 12–18–62, Cl. 18—13.
Hoferer, Daniel W. Method and apparatus for loading a tank with a desired weight of liquid. 3,023,620, 3–6–62, Cl. 73—309.
Hoferer, Daniel W. Apparatus for loading a tank with a desired weight of liquid. 3,066,532, 12–4–62, Cl. 73—309.

Hoff, Dale R., and J. M. Korntved, to Merck & Co., Inc. 6α-halogen-9α-halogen-Δ¹⁴-pregnadiene-3-one compounds. 3,047,596, 7–31–62, Cl. 260—397.45.
Hoff, Donald A., and A. R. Wagner, to Warren-Teed Products Co. Systemic composition for the reduction of inflammation and edema and method of administering. 3,041,237, 6–26–62, Cl. 167—51.5.
Hoff, Harry J. and S. J., to Hoffco, Inc. Saw-chain drive sprocket. 3,059,491, 10–23–62, Cl. 74—243.
Hoff, Herbert. Sleevelength adjustment device. 3,045,246, 7–24–62, Cl. 2—269.
Hoff, Jean C., to Jenoff Inc. Level indicator for grain bins and the like. 3,019,310, 1–30–62, Cl. 200—61.21.
Hoff, John M., to The Tappan Co. Gas ignitor. 3,051,862, 8–28–62, Cl. 313—146.
Hoff, Stephen J.: *See*—
Hoff, Harry J. and S. J. 3,059,491.
Hoff, Stephen J., to Hoffco, Inc. Lawn mower blade mounting and control. 3,026,665, 3–27–62, Cl. 56—25.4.
Hoff, Stephen J., to Hoffco, Inc. Centrifugal clutch with controlled self-energizing action. 3,026,980, 3–27–62, Cl. 192—105.
Hoff, Wally C., and R. Somerville, to The McBee Co. Ltd. Postage meter base. 3,064,567, 11–20–62, Cl. 101—407.
Hoffarth, Michael J. Fixtures for attaching women's heels to shoes. 3,053,902, 9–11–62, Cl. 12—123.3.
Hoffberg, Alvin M. Collapsible door supporting wall partitions. 3,039,417, 6–19–62, Cl. 114—71.
Hoffco, Inc.: *See*—
Hoff, Harry J. and S. J. 3,059,491.
Hoff, Stephen J. 3,026,665.
Hoff, Stephen J. 3,026,980.
Hoffenberg, David S., and J. B. Longfield, to American Cyanamid Co. Preparation of vinyl aromatic compounds. 3,025,330, 3–13–62, Cl. 260—650.
Hoffenberg, David S., R. G. Haldeman, and W. B. Hardy, to American Cyanamid Co. Preparation of naphthalenethiol. 3,042,724, 7–3–62, Cl. 260—609.
Hoffer, Max, to Hoffmann-La Roche Inc. Mercury salts of nitrogen heterocyclics and preparation thereof. 3,041,335, 6–26–62, Cl. 260—242.
Hoffert, Howard H. Tongs. 3,053,749, 9–11–62, Cl. 240—297.
Hoffknecht, Frank J. Gate valve for irrigation pipes. 3,061,266, 10–30–62, Cl. 251—147.
Hoffman, Alfred R., to Ekco Products Co. Revolving shelf mounting assembly. 3,019,912, 2–6–62, Cl. 211—144.
Hoffman-Allen Corp.: *See*—
Allen, Albert S. 3,021,954.
Hoffman, Arggle C.: *See*—
Hill, Ira W. 3,017,965.
Hoffman, Arggle C. Tube tester. 3,028,545, 4–3–62, Cl. 324—22.
Hoffman, Arlene M.: *See*—
Kissman, Henry M., Hoffman, and Weiss. 3,035,051.
Kissman, Henry M., Hoffman, and Weiss. 3,047,568.
Hoffman, Arnold & Co.: *See*—
Blackman, Peter, and Conbere. 3,053,788.
Hoffman, Carl H.: *See*—
Folkers, Karl A., Hoffman, and Wolf. 3,068,295.
Hoffman, Carl S., and V. C. Reddy, to General Motors Corp. Crankcase and bearing structure for internal combustion engines. 3,046,954, 7–31–62, Cl. 121—194.
Hoffman, Carl S., and K. L. Hulsing, to General Motors Corp. Connecting rod and crankshaft connection for internal combustion engine. 3,069,926, 12–25–62, Cl. 74—580.
Hoffman, Charles L. Method of making laminated leather heel coverings. 3,034,161, 5–15–62, Cl. 12—147.
Hoffman, Daniel J. N., and T. B. Beeton, to South African Iron and Steel Industrial Corp., Ltd. Process of spheroeditizing irregularly snaped particles. 3,015,852, 1–9–62, Cl. 18—45.
Hoffman, David A. Instrument tray for dental operating rooms. 3,033,628, 5–8–62, Cl. 311—17.
Hoffman, Donald R.: *See*—
Guidici, Gino, and Hoffman. 3,059,353.
Hoffman, Edward A. Method and apparatus for fuel combustion. 3,044,453, 7–17–62, Cl. 123—25.
Hoffman Electronics Corp.: *See*—
Byczkowski, Mieczyslaw. 3,020,412.
Byczkowski, Mieczyslaw W. 3,040,218.
Daniels, John W., Messner, and Sparling. 3,039,037.
Downes, Lloyd C. 3,045,916.
Downes, Lloyd C. 3,067,415.
Dutton, Oscar B. 3,038,963.
Geer, Charles W. 3,026,439.
Hillman, Murray J. 3,035,234.
Matlow, Sheldon L. 3,046,324.
Matlow, Sheldon L., and Ralph. 3,040,416.
Ralph, Eugene L. 3,025,335.
Ralph, Eugene L. 3,038,952.
Regnier, Norman J. 3,022,477.
Ross, Bernd. 3,021,754.
Ross, Bernd. 3,039,028.
Ross, Bernd. 3,062,690.
Schmidt, Laurence W. 3,062,092.
Weber, Joseph R., and Hauritz. 3,046,029.
White, Richard L. 3,025,409.
Hoffman, Ernest, and C. D. Gresham, to Tip-Top Products Co. Hair curler. 3,067,755, 12–11–62, Cl. 132—41.
Hoffman, Ernest G., to Royal McBee Corp. Case shift mechanism. 3,017,979, 1–23–62, Cl. 197—74.
Hoffman, Eugene M., to C. H. Masland & Sons. Method of weaving and loom. 3,060,974, 10–30–62, Cl. 139—43.
Hoffman, Frank W.: *See*—
Peeps, Donald J., and Hoffman. 3,020,026.
Hoffman, George R.: *See*—
Perry, Gerald H., Shallow, and Hoffman. 3,059,225.
Hoffman, George R., and M. A. MacLean, to International Business Machines Corp. Electromagnetic storage and switching arrangements. 3,025,500, 3–13–62, Cl. 340—174.
Hoffman, Harmon L., Jr.: *See*—
Liggett, Robert W., and Hoffman. 3,030,376.
Hoffman, Harold J., to Shar Dispersion Equipment Co., Inc. Rotational speed control for a driven shaft. 3,018,666, 1–30–62, Cl. 74—217.
Hoffman, Harry J., to Avery Adhesive Products, Inc. Base web and protective backing web combination. 3,028,280, 4–3–62, Cl. 154—53.5.
Hoffman, Henry A., Jr. and L. A. Sherbeck, to E. I. du Pont de Nemours and Co. Cellulose acetate spinning solutions. 3,019,119, 1–30–62, Cl. 106—169.
Hoffman, Henry C., Jr., to American Can Co. Dispensing container for viscous products. 3,022,923, 2–27–62, Cl. 222—387.
Hoffman, Herbert N., to General Electric Co. Shock resistant speed responsive trip device. 3,026,891, 3–27–62, Cl. 137—56.
Hoffman, Howard T., to Bailey Meter Co. Gas sample scanning apparatus. 3,043,145, 7–10–62, Cl. 73—421.5.
Hoffman International Corp.: *See*—
El-Hindi, Ahmad M. 3,042,211.
Hoffman, Jane H. Typewriter utility receptacles. 3,036,687, 5–29–62, Cl. 197—180.
Hoffman, Jess H.: *See*—
Crandell, Richard M., and Hoffman. 3,045,470.
Hoffman, Jess H., to Lockheed Aircraft Corp. Demodulator. 3,034,066, 5–8–62, Cl. 329—50.
Hoffman, Lawrence E.: *See*—
Scott, William D., and Hoffman. 3,055,136.
Hoffman, Leslie J., to United Aircraft Corp. Instrument illumination system. 3,068,833, 12–18–62, Cl. 116—129.
Hoffman, Lester L.: *See*—
Matveeff, Alexander, and Hoffman. 3,035,107.
Hoffman, Lewis C., to E. I. du Pont de Nemours and Co. Vitreous enamel. 3,055,762, 9–25–62, Cl. 106—49.
Hoffman, Lewis C., to E. I. du Pont de Nemours and Co. Vitreous enamel frit. 3,061,449, 10–30–62, Cl. 106—49.
Hoffman, Manfred, to Siemens-Schuckertwerke Aktiengesellschaft. Shock-current generator. 3,068,369, 12–11–62, Cl. 307—110.
Hoffman, Norman A. Car top tent. 3,021,852, 2–20–62, Cl. 135—1.
Hoffman, Norman E., to AMP Inc. Method of making an electrical connection. 3,067,489, 12–11–62, Cl. 29—155.55.
Hoffman, Paul R., to Burroughs Corp. Record reader. 3,046,407, 7–24–62, Cl. 250—219.
Hoffman, Robert W., to Lear Siegler, Inc. Clutch mechanism. 3,066,777, 12–4–62, Cl. 192—38.
Hoffman, Ross B.: *See*—
Cerrar, Robert C., and Hoffman. 3,045,113.
Hoffman, Roy D. Speculum liner and insemination rod combination. 3,050,060, 8–21–62, Cl. 128—260.
Hoffman, Stanley G., to Hat Corp. of America. Hat and liner therefor. 3,069,690, 12–25–62, Cl. 2—190.
Hoffman-Taff, Inc.: *See*—
Lorz, Emil, and Bagby. 3,056,787.
Hoffman, Terrence W.: *See*—
Hodgins, John W., and Hoffman. 3,054,191.
Hoffman, William D.: *See*—
Harvey, Donald G., Hoffman, and Patinkin. 3,035,104.
Hoffman, William D., to Sinclair Research, Inc. Process for polymerizing ethylene to C_4-C_{10} terminal olefins. 3,035,105, 5–15–62, Cl. 260—683.15.
Hoffman, William T.: *See*—
MacCracken, Calvin D., Rioux, Miles, and Hoffman. 3,034,414.
Hoffmann, Arnulf: *See*—
Keller, Wolfgang, and Hoffmann. 3,046,379.
Hoffmann, Arthur K.: *See*—
Thomas, Walter M., and Hoffmann. 3,025,274.
Hoffmann, Arthur K., and A. G. Tesch, to American Cyanamid Co. Method of preparing organophosphorous oxides. 3,032,589, 5–1–62, Cl. 260—606.5.
Hoffmann, August. Safety test stand for rotors. 3,040,564, 6–26–62, Cl. 73—88.
Hoffmann, Bruno, to North American Philips Co., Inc. Central record spindle for records having a large central aperture. 3,015,490, 1–2–62, Cl. 274—10.
Hoffmann, Erich O., to Quality Die Co. Marking dies, and the like. 3,019,724, 2–6–62, Cl. 101—7.
Hoffmann, Eugen, to Phrix Werke Aktiengesellschaft. Spinnerett assembly. 3,051,986, 9–4–62, Cl. 18—8.
Hoffmann, Eugen, to Phrix-Werke AG., Firma. Apparatus for the wet-treatment of fibers and the like. 3,058,332, 10–16–62, Cl. 68—181.
Hoffmann, Franz, to Adolf Hopf Metallwerke, K.G. Closures for bottles. 3,064,844, 11–20–62, Cl. 215—31.
Hoffmann, Friedrich, to Daimler-Benz Aktiengesellschaft. Collapsible steering column, especially for motor vehicles. 3,058,367, 10–16–62, Cl. 74—493.

Hoffmann, George. Locking device. 3,021,163, 2–13–62, Cl. 292—147.
Hoffmann, Heinrich, to Daimler-Benz Aktiengesellschaft. Combustion chamber for compression ignition, injection-type internal combustion engines. 3,020,900, 2–13–62, Cl. 123—32.
Hoffmann, Heinrich, J. Schmidt, and F. Thiersch, to Rochling'Sche Eisen -und Stahlwerke G.m.b.H., and Carl Still, Firma. Process and apparatus for the production of coke. 3,058,891, 10–16–62, Cl. 202—26.
Hoffmann, Heinz. Crutch. 3,032,048, 5–1–62, Cl. 135—47.5.
Hoffmann, Helmut, W. Lorenz, and G. Schrader, to Farbenfabriken Bayer Aktiengesellschaft. Certain phosphorus esters of 5 hydroxy-2,1,3-benzothiadiazole. 3,029,248, 4–10–62, Cl. 260—304.
Hoffmann, Henry, Jr., to United States of America, Air Force. Tele-map semi-automatic encoder. 3,043,911, 7–10–62, Cl. 178—17.
Hoffmann, Henry, Jr., and J. Barbieri. Tele-map system. 3,021,389, 2–13–62, Cl. 178—22.
Hoffmann, Jack H., and W. P. Hogstad, to Allis-Chalmers Mfg. Co. Collector lead arrangement. 3,023,331, 2–27–62, Cl. 310—232.
Hoffmann, Johannes T. and K., to Standardwerk Eugen Reis G.m.b.H. Wrapping machine. 3,037,336, 6–5–62, Cl. 53—212.
Hoffmann, Karl, and E. Sury, to Ciba Pharmaceutical Products Inc. Dipiperidyl-alkanes. 3,033,868, 5–8–62, Cl. 260—293.
Hoffmann, Karl, and E. Sury, to Ciba Corp. 1-ethyl-2-diphenylmethyl-piperidines. 3,048,594, 8–7–62, Cl. 260—293.
Hoffmann, Karl A. Rossi, and J. Kebrle, to Ciba Corp. New substituted indole-(2)-aldehydes and process for their manufacture. 3,055,912, 9–25–62, Cl. 260—319.
Hoffmann, Kasimir: *See*—
Hoffmann, Johannes T. and K. 3,037,336.
Hoffmann-La Roche Inc.: *See*—
Albrecht, Harry A., Flati, and Wenner. 3,058,987.
Battegay, Jean, and Treadwell. 3,064,060.
Becher, Elisabeth, Bernhauer, and Wilharm. 3,043,750.
Besendorf, Hedwig, Brossi, and Schnider. 3,067,203.
Brossi, Arnold. 3,045,021.
Cohen, Aaron, and Parsons. 3,016,381.
Corrodi, Hans R., Hardegger, Kogl, and Zeller. 3,057,879.
Doebel, Karl, Rey-Bellet, Schläpfer, and Spiegelberg. 3,067,209.
Duschinsky, Robert. 3,040,026.
Entschel, Roland, and Karrer. 3,068,257.
Fürst, Andor, and Kyburz. 3,021,335.
Furst, Andor, Kyburz, and Majnoni. 3,038,003.
Gardner, Thomas S., Lee, Finkelstein, and Wenis. 3,042,-721.
Gardner, Thomas S., Lee, and Wenis. 3,047,581.
Gardner, Thomas S., Lee, and Wenis. 3,053,848.
Gardner, Thomas S., Lee, and Wenis. 3,065,225.
Goldberg, Moses W., and Lehr. 3,052,706.
Goldberg, Moses W., and Teitel. 3,022,301.
Goldberg, Moses W., and Teitel. 3,047,628.
Goldberg, Moses W., and Teitel. 3,064,039.
Goldberg, Moses W., and Teitel. 3,064,052.
Guex, Waldemar, and Montavon. 3,057,913.
Gutmann, Hugo. 3,062,881.
Gutmann, Hugo, Hegedus, and Zeller. 3,065,265.
Harris, Sidney E., and Rausch. 3,018,595.
Hindelang, Rudolf, Lutz, and Schnider. 3,019,230.
Hindley, Nathan C. 3,036,973.
Hoffer, Max. 3,041,335.
Isler, Otto, Montavon, Rüegg, and Zeller. 3,015,680.
Isler, Otto, Ruegg, and Saucy. 3,047,634.
Isler, Otto, Rüegg, and Schwieter. 3,043,863.
Kimel, Walter, and Montavon. 3,021,359.
Lutz, August H., and Schnider. 3,058,986.
Marbet, Roman, and Saucy. 3,029,287.
Marbet, Roman, and Saucy. 3,057,888.
Osborne, John M., and Philpott. 3,031,512.
Osbond, John M., and Philpott. 3,031,512.
Osbond, John M., Philpott, and Wickens. 3,033,884.
Parsons, Anthony M. 3,019,229.
Reeder, Earl, and Sternbach. 3,051,701.
Spiegelberg, Hans, and Vaterlaus. 3,017,337.
Straub, Otto, and Zeller. 3,031,479.
Hoffmann Mfg. Co. Ltd., The: *See*—
Spencer, Frederick, and Jones. 3,033,621.
Hoffmann, Oswald. Box for containing ammunition. 3,039,-650, 6–19–62, Cl. 220—97.
Hoffmann, Richard R., to Probescope Co. Spectrum analyzer. 3,017,573, 1–16–62, Cl. 324—77.
Hoffmann, Sandor A: *See*—
Clark, Howard G., Plummer, and Hoffmann. 3,067,-261.
Hoffmann, Walter, to International Business Machines Corp. Recording apparatus. 3,058,415, 10–16–62, Cl. 101—93.
Hoffmann, William H., to United States of America, Army. Switch. 3,031,541, 4–24–62, Cl. 200—11.
Hoffmaster, George R., V. F. Gongoll, S. C. Herbine, and W. R. Bohner, to The Electric Storage Battery Co. Headgear for face protective element. 3,060,444, 10–30–62, Cl. 2—8.
Hoffmeister, Ernst W. Jumping equipment. 3,065,962, 11–27–62, Cl. 272—70.1.
Hoffmeister, Hans G., to FMC Corp. Fruit preparation machine. 3,045,733, 7–24–62, Cl. 146—81.
Hoffmeyer, Knud H.: *See*—
Hill, Joseph A., and Hoffmeyer. 3,058,771.
Hoffsommer, Robert D., Jr.: *See*—
Taub, David, Wendler, and Hoffsomer. 3,068,226.
Hoffsommer, Robert D., Jr., D. Taub, and N. L. Wendler, to Merck & Co., Inc. Preparation of α-phenyl acetone compounds. 3,028,398, 4–3–62, Cl. 260—340.5.
Hoffstadt, Walter F., to General Aniline & Film Corp. Benzoyl acetanilide couplers. 3,056,675, 10–2–62, Cl. 96—55.
Hoffstadt, Walter F., and A. P. Altavilla, to General Aniline & Film Corp. Color formers for producing yellow dye images by color development. 3,056,674, 10–2–62, Cl. 96—55.
Hofft, Miller, Inc.: *See*—
Jackson, Walter L., and Hunt. 3,030,987.
Hofker, Willem K., to North American Philips Co., Inc. Pulse-counting device and counting tubes for such devices. 3,062,984, 11–6–62, Cl. 315—8.5.
Hofman, Wytze, to North American Philips Co., Inc. Magnet system having little stray. 3,067,366, 12–4–62, Cl. 317—201.
Hofmann, Albert, and A. Frey, to Sandoz A.G. Isoquinoline derivatives. 3,056,791, 10–2–62, Cl. 260—287.
Hofmann, Charles D.: *See*—
Brewer, Max E., and Hofmann. 3,030,738.
Hofmann, Charles F.: *See*—
Westervelt, Dean C., Vondracek, and Hofmann. 3,059,-046.
Hofmann, John J., and E. D. Esling, to Libbey-Owens-Ford Glass Co. Laminated plastic articles and method of making the same. 3,020,376, 2–6–62, Cl. 219—19.
Hofmann, Ludwig, to Bolkow-Entwicklungen KG. Landing gear for aircraft. 3,038,685, 6–12–62, Cl. 244—17.17.
Hofmann, Rudolf, and W. Hager, to Farbenfabriken Bayer Aktiengesellschaft. Continuous treatment of individual stretchable threads for example artificial silk threads. 3,026,167, 3–20–62, Cl. 8—151.2.
Hofmann, Rudolf, E. Schmidt, A. Reichle, and F. Moosmuller, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of addition products of organic isocyanates and organic carbodiimides. 3,065,224, 11–20–62, Cl. 260—239.
Hofmann, Viktor, to Siemens-Schuckertwerke Aktiengesellschaft. Transistor reversible counting circuit with resistive coupling between stages. 3,048,711, 8–7–62, Cl. 307—88.5.
Hofmann, Wilhelm, to Schloemann Aktiengesellschaft. Means for mounting the container for an extrusion press in the container-holder. 3,062,025–62, Cl. 287—119.
Hofmann, Willi J. L., to Eugen Lutz K.G. Depth-of-cut gage apparatus for milling machines. 3,060,981, 10–30–62, Cl. 144—134.
Hofmeister, Hans. Rotary converter arrangements. 3,031,177. 4–24–62, Cl. 66—36.
Hofmeister, William F., to Chain Belt Co. Weighing means for fork-lift trucks. 3,063,576, 11–13–62, Cl. 214—2.
Hofreiter, Bernard T., G. E. Hamerstrand, and C. L. Mehltretter, to United States of America, Agriculture. Wet-strength paper containing polymeric dialdehydes. 3,062,-702, 11–6–62, Cl. 162—175.
Hofreiter, Bernard T., G. E. Hamerstrand, and C. L. Mehltretter, to United States of America, Agriculture. Process for making high wet-strength paper containing polymeric dialdehyde. 3 067,088, 12–4–62, Cl. 162—175.
Hofstadt, Karl-Ernst: *See*—
Brendel, Oskar, Grantz, Hofstadt, and Franz. 3,049,760.
Hofstetter, Ernst, and K. Haas, to Societe Technique pour l'Industrie Nouvells S.A. "Stin." Axle counter for railroad installations. 3,015,725, 1–2–62, Cl. 246—247.
Hofstra, Peter C.: *See*—
Claff, Clarence L., Crescenzi, and Hofstra. 3,060,934.
Hofstra, Peter C., and H. J. Engelsher. Surgical scrub brush. 3,066,346, 12–4–62, Cl. 15—512.
Hogan, Chester M.: *See*—
Lieberman, Irving, Zernow, and Hogan. 3,034,393.
Hogan Faximile Corp: *See*—
Mandel, Gerald. 3,016,338.
Mandel, Gerald. 3,024,173.
Mones, Arthur H., Mandel, and Sperling. 3,028,252.
Hogan, James D.: *See*—
Amdahl, Lowell D., Douthitt, Engel, and Hogan. 3,070,304.
Hogan, John M., to Swift & Co. Meat tenderization process. 3,052,551, 9–4–62, Cl. 99—107.
Hoganas Plastrodukter, Aktiebolaget: *See*—
Carlson, Karl G. E., and Rydell. 3,038,832.
Hoganasmetoder, Aktiebolaget: *See*—
Gummeson, Per Eg., and Mathieson. 3,038,711.
Hoganson, Eugene M., to The Bendix Corp. Method of fastening. 3,055,086, 9–25–62, Cl. 29—157.1.
Hogarth, Harold P. Method and apparatus for forming tapered surfaces on elongate members. 3,025,644, 3–20–62, Cl. 51—103.
Hogberg, Knut B., and O. B. Ferno, to Aktiebolaget Leo (A/B Leo). Growth-promoting compositions and method. 3,053,734, 9–11–62, Cl. 167—53.
Hogdon, John D., and J. B. Lovett. Pipe cutter. 3,067,651, 12–11–62, Cl. 90—12.
Hoge, Ralph O. Gun stock with a compressible fluid recoil absorber. 3,039,222, 6–19–62, Cl. 42—74.
Hoge, Robert H.: *See*—
Hanson, Harry I., and Hoge. 3,036,326.
Hoge, Robert H., to The Clark Controller Co. Valves and safety controls therefor. 3,018,794, 1–30–62, Cl. 137—620.

Högedal, Sven A., to Evers & Co. Aktiebolag. Hinge devices. 3,021,553, 2–20–62, Cl. 16—175.

Hogeman, Hans, to American Bosch Arma Corp. Timing device for fuel injection pump. 3,024,779, 3–13–62, Cl. 123—139.

Hogeman, Hans, and A. E. Huse, to American Bosch Arma Corp. Timing device for fuel injection pump. 3,050,964, 8–28–62, Cl. 64—25.

Hogencamp, Harold C., to Stereotone, Inc. Sound reproducing systems. 3,038,966, 6–12–62, Cl. 179—1.

Hogg, Harold A. C., to The M-O Valve Co. Ltd. Electrostatic focussing devices. 3,058,025, 10–9–62, Cl. 315—3.6.

Hogg, James C., and R. L. Pfaff, to West Point Mfg. Co. Quill inspection system. 3,021,949, 2–20–62, Cl. 209—75.

Hogg, James F.: *See*—
Cockbaine, David R., and Hogg. 3,065,348.

Hogg, John A.: *See*—
Babcock, John C., Campbell, Herr, Hogg, and Pederson. 3,016,387.
Fonken, Gunther S., Hogg, and Magerlein. 3,031,475.
Pederson, Raymond L., Babcock, and Hogg. 3,067,218.

Hogg, John A., and B. J. Magerlein, to The Upjohn Co. 9,10-secoprogesterones. 3,027,409, 3–27–62, Cl. 260—586.

Hogg, John A., and A. H. Nathan, to The Upjohn Co. 6-methyl-11,17α-dioxygenated-4,6-pregnadienes (and 1,4,6-pregnatrienes). 3,031,476, 4–24–62, Cl. 260—397.45.

Hoggard, Kenneth A. Syringe plunger ejector. 3,040,744, 6–26–62, Cl. 128—218.

Hoglan, Joseph A., to International Minerals & Chemical Corp. Stabilization of malt beverages. 3,026,204, 3–20–62, Cl. 99—48.

Hoglund, Kenneth M., to Collins Radio Co. Variable gain magnetic amplifier. 3,056,079, 9–25–62, Cl. 323—89.

Hoglund, Nils H. Grinding wheel dressing apparatus. 3,022,-780, 2–27–62, Cl. 125—11.

Hogshire, Richard R. Grill sandwich warmer. 3,046,971, 7–31–62, Cl. 126—33.

Hogstad, William P.: *See*—
Hoffmann, Jack H., and Hogstad. 3,023,331.

Hogstrom, Nils H. Floor operated spray device. 3,043,523, 7–10–62, Cl. 239—274.

Hogue, Frank J. Unitized electrical capacitor. 3,020,453, 2–6–62, Cl. 317—230.

Hoh, Siegfried R., to United States of America, Air Force. Low capacitance transformer. 3,058,078, 10–9–62, Cl. 336—182.

Hohberg, Jerome, to E. I. du Pont de Nemours and Co. Porous polytetrafluoroethylene article containing glass microballoons. 3,015,604, 1–2–62, Cl. 162—157.

Hohenadel, John J.: *See*—
Byrne, Emanuel M., Hohenadel, and Soffa. 3,044,642.

Hohenberg, Paul M., W. R. James, and H. E. Wechsberg, to Monsanto Chemical Co. Expandable composition consisting essentially of polyolefin, metal soap and p. p′-oxybis (benzene sulfonyl hydrazide), process for preparing same and wire coated with same. 3,017,371, 1–16–62, Cl. 260—2.5.

Hohenschutz, Heinz, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of acetic acid. 3,060,233, 10–23–62, Cl. 260—532.

Hohl, Carl E., to Textile Machine Works. Tool holder. 3,059,507, 10–23–62, Cl. 77—56.

Hohl, Carl E., and H. P. Schulze, to Textile Machine Works. Quill unit for machine tools. 3,059,979, 10–23–62, Cl. 308—6.

Hohl, Frank J., to Niagara Machine & Tool Works. Punch clamping mechanism for power presses. 3,027,792, 4–3–62, Cl. 83—698.

Hohl, Frank J., to Hohl Machine & Conveyor Co., Inc. Conveyor. 3,040,872, 6–26–62, Cl. 198—127.

Hohl, John, to Owens-Illinois Glass Co. Container closing apparatus. 3,015,597, 1–30–62, Cl. 53—314.

Hohl Machine & Conveyor Co., Inc.: *See*—
Hohl, Frank J. 3,040,872.

Hohler, Robert L., and L. D. Yarnell, to Hoover Ball and Bearing Co. Commutator. 3,061,749, 10–30–62, Cl. 310—234.

Hohlweg, Rudolf: *See*—
Flick, Willy, Hohlweg, and Umhofer. 3,066,873.

Hohmann, Albert, to Taller & Cooper, Inc. Machines for punching tabulating cards. 3,050,244, 8–21–62, Cl. 234—112.

Hohmann, Albert, to American Electronics, Inc. Motion detector. 3,038,537, 10–16–62, Cl. 177—12.

Hohmuth, Leopold, to Zeiss Ikon Aktiengesellschaft. Ever ready carrying cases for photographic cameras. 3,037,541, 6–5–62, Cl. 150—52.

Hohn, Karl-Heinz, to H. Boskamp. Atomizing nozzle assembly. 3,059,860, 10–23–62, Cl. 239—423.

Hohner, M., Inc.: *See*—
Hohner, Walter. 3,015,980.

Hohner, Matth., A.G.: *See*—
Scherer, Karl. 3,030,845.

Hohner, Walter, to M. Hohner, Inc. Wind instrument. 3,015,980, 1–9–62, Cl. 84—377.

Hohos, Edward J., and G. L. Alston, to Mine Safety Appliances Co. Dust collecting rotary rock drill. 3,022,840, 2–27–62, Cl. 175—324.

Hohwart, Ernest F.: *See*—
Hohwart, George and E. F. 3,025,736.
Hohwart, George and E. F. 3,025,737.

Hohwart, George, to N. A. Woodworth Co. Air operated pump jig. 3,028,159, 4–3–62, Cl. 269—137.

Hohwart, George and E. F., to N. A. Woodworth Co. Arbor. 3,025,736, 3–20–62, Cl. 82—44.

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Hojding, Elof, A.B. Systems for localizing leakage in electric networks. 3,031,613, 4–24–62, Cl. 324—52.

Hoji, Kazuhio: *See*—
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Hokama, Takeo: *See*—
Bachman, Gustave B., and Hokama. 3,040,097.
Bachman, Gustave B., and Hokama. 3,040,100.

Hoke, Ralph M., to Callery Chemical Co. Preparation of metal borides. 3,032,399, 5–1–62, Cl. 23—204.

Hokett, William G. Turbine driven camera in a space ship. 3,040,618, 6–26–62, Cl. 88—16.

Hokuriku Kako Kabushiki Kaisha: *See*—
Yamazaki, Kanzo. 3,066,022.

Holaday, Joseph M., to The B. F. Goodrich Co. Neoprene glove. 3,026,531, 3–27–62, Cl. 2—167.

Holaday-Parks Fabricators, Inc.: *See*—
Knox, Ernest L. 3,038,569.

Holak, William D.: *See*—
McCarty, Clifford E., and Holak. 3,017,104.

Holan Corp.: *See*—
Eckels, George H., and Troche. 3,022,854.
Troche, Herman J. 3,022,839.

Holasek, Edward: *See*—
Domizi, Dante J., Holasek, Smith, and Lannan. 3,058,-004.

Holbein, Raymond G., to Fabriques de Produits Chimiques de Thann et de Mulhouse. Organophilic and hydrophobic pigments and method for their preparation. 3,025,179, 3–13–62, Cl. 106—300.

Holberson, Henry A., to The Youngstown Sheet and Tube Co. Bath equipped. 3,046,568, 7–31–62, Cl. 4—186.

Holberson, Henry A., to the Youngstown Sheet and Tube Co. Rimless mounting for sheet steel enameled sinks, lavatories and the like. 3,046,569, 7–31–62, Cl. 4—187.

Holbert, Don R.: *See*—
Perry, Robert O., Holbert, and Zeito. 3,044,548.

Holbert, Don R., to Sinclair Oil & Gas Co. Method using gas means to profile a subterranean oil-bearing formation. 3,030,805, 4–24–62, Cl. 73—155.

Holbert, James M.: *See*—
Zimmer, Hans W., and Holbert. 3,030,361.
Zimmer, Hans W., and Holbert. 3,031,446.
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Holbrook, Darrel W.: *See*—
Currey, Charles, Brown, Holbrook, Truesdale, and Freeman. 3,070,798.

Holbrook, George W., to Dow Corning Corp. Cyclic bistrifluoropropyl siloxanes. 3,070,617, 12–25–62, Cl. 260—448.2.

Holbrook, George W., and O. W. Steward, to Dow Corning Corp. Hexafluoroisobutyl substituted silicon compounds. 3,015,585, 1–2–62, Cl. 117—161.

Holbrook, Herbert T., and O. R. Johnson, to Crown Zellerbach Corp. Fluid impervious containers. 3,054,551, 9–18–62, Cl. 229—86.

Holbrook, James G., and B. O. Lange, to Lockheed Aircraft Corp. Pull-wave single-ended synchronous rectifier. 3,036,-273, 5–22–62, Cl. 329—50.

Holbrook, Orrin C.: *See*—
Bernard, George G., and Holbrook. 3,036,630.
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Holbrook, Orrin C., to The Pure Oil Co. Water-flooding process. 3,036,631, 5–29–62, Cl. 166—9.

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Holbrook, Ray: *See*—
Woods, Allen. 3,059,401.

Holbrook, Robert S. Decorative electrical lighting system. 3,036,206, 5–22–62, Cl. 240—10.

Holch, Hermann: *See*—
Voigt, Wilfried, and Holch. 3,029,474.

Holcomb, Don R., to Hughes Aircraft Co. Parametric frequency multiplier. 3,060,364, 10–23–62, Cl. 321—69.

Holcomb, Don R., and D. E. Hildreth, to Hughes Aircraft Co. Operational amplifier having direct current amplifier in which signal is converted to and from frequency modulation. 3,020,582, 4–17–62, Cl. 328—127.

Holcomb, Henry A., and W. C. Thompson, to Esso Research and Engineering Co. Hydrocarbon conversion process. 3,060,248, 10–23–62, Cl. 260—683.73.

Holcombe, Ralph L., to The Daw Corp. Method of making a mobile sign element. 3,026,608, 3–27–62, Cl. 29—416.

Hold, Peter: *See*—
Miller, William R., Anderson, Compton, and Hold. 3,037,402.
Reed, John W., Halvorsen, Hold, and Miller. 3,050,837.

Holdeman, Eugene J. Gasket for railroad compressed air hoses. 3,016,254, 1–9–62, Cl. 288—23.

Holden, Arthur S., Jr., to The Coe Mfg. Co. Material handling equipment and method. 3,039,586, 6–12–62, Cl. 198—20.

Holden, Brian A.: *See*—
Riddell, William, and Holden. 3,065,644.

Holden, Donald L., to Universal Oil Products Co. Manufacture and use of sulfided hydrocarbon purification catalyst. 3,016,348, 1–9–62, Cl. 208—216.

Holden, Lawrence T., and H. R. Askew. Candle mold. 3,015,-847, 1–9–62, Cl. 18—27.

Holden, Robert B.: *See*—
Lapat, Philip E., Gordon, and Holden. 3,019,139.

Holder, Otis W., to Patent-Hose Corp. Knit article. 3,036,-450, 5–29–62, Cl. 66—171.

Holderer, Oscar C. Adjustable porous walls for wind tunnels. 3,027,760, 4–3–62, Cl. 73—147.

Holderer, Oscar C., to United States of America, Army. Air bearing drag balance. 3,034,348, 5–15–62, Cl. 73—147.

Holderer, Oscar C. Jet propelled toy arrangement. 3,046,-694, 7–31–62 Cl. 46—74.

Holderith, Anton, to Fluidmaster, Inc. Float construction. 3,049,010, 8–14–62, Cl. 73—322.5.

Holderman, Jim D. Adjustable stand for cameras, lights and the like. 3,064,932, 11–20–62, Cl. 248—171.

Holdo, Andres O.: *See*—
Moseley, Francis L., and Holdo. 3,050,669.

Holdren Bros., Inc.: *See*—
Holdren, Donald R. 3,018,078.
Holdren, Donald R. 3,031,148.

Holdren, Donald R., to Holdren Bros., Inc. Device for mounting a conduit to a tank. 3,018,078, 1–23–62, Cl. 248—56.

Holdren, Donald R., to Holdren Brothers, Inc. Spray ball construction. 3,031,148, 4–24–62, Cl. 239—559.

Holdridge, Warren B. Automatic bar feed for lathe. 3,070,-238, 12–25–62, Cl. 214—1.4.

Holdstock, Norman G.: *See*—
Silva, Paul F., and Holdstock. 3,067,230.

Holdsworth, Robert S., to Escambia Chemical Corp. Suspension polymerization of vinyl chloride and product thereof. 3,057,831, 10–9–62, Cl. 260—78.5.

Holdsworth, Robert S., and W. M. Smith, to Escambia Chemical Corp. Production of vinyl chloride polymers. 3,017,399, 1–16–62, Cl. 260—92.8.

Holdsworth, Robert S., and W. M. Smith, to Escambia Chemical Corp. Process for producing copolymers of polyvinyl-chloride. 3,063,977, 11–13–62, Cl. 260—87.5.

Holdway, Donald F. F., to Spoorweg Sein Industrie N.V. Electromagnetic system. 3,027,499, 3–27–62 Cl. 317—172.

Holes, James W., and J. E. Stowe, to W. W. Holes Mfg. Co. Portable storage and display cabinet. 3,037,618, 6–5–62, Cl. 206—45.

Holes W. W. Mfg. Co.: *See*—
Holes, James W., and Stowe. 3,037,618.

Holiday Line Inc., The: *See*—
Rosenberg, David, and Mirando. 3,017,642.

Holl-Gay Mfg. Co: *See*—
Logan, Malcolm. 3 052 348.

Holka, Thomas C., and C. J. Haddad. Leader connector for fish line. 3 023,535, 3–6–62, Cl. 43—43.1.

Hölken, Wolfgang F.: *See*—
Aye, Heinrich, Hölken, and Ufert. 3 032 142.

Höll, Karl, G. Meier, and E. Welte, to Gritzner-Kayser A.G. Sewing machine with indicator means for stitch patterns. 3,070,050, 12–25–62, Cl. 112—158.

Holl, Richard J., R. W. Klecker, and C. B. Graham, to United States of America, Atomic Energy Commission. Nuclear superheater for boiling water reactor. 3,034,977, 5–15–62, Cl. 204—193.2.

Holladay, Forrest E. Inflatable floats. 3,056,979, 10–9–62, Cl. 9—11.

Holladay, Forrest E. Plastic sheeting articles and manufacture. 3,056,980, 10–9–62, Cl. 9—310.

Holladay, Forrest E., to Burroughs Corp. Document handling machine. 3,064,886, 11–20–62, Cl. 235—61.11.

Holladay, Fred O., and R. Kobler, to McGraw-Edison Co. Indexing system for magnetic recorders. 3,046,019, 7–24–62, Cl. 274—1.

Hollaender Mfg. Co., The: *See*—
Hollaender, Robert P. 3,069,189.

Hollaender, Robert P., to The Hollaender Mfg. Co. Pipe connector. 3,069,189, 12–18–62, Cl. 287—54.

Holland, Anthony, and R. Slack, to May & Baker Ltd. Nitrofurfurylidene hydroxy acid hydrazides. 3,026,332, 3–20–62, Cl. 260—347.3.

Holland, Ayler J., Jr.: *See*—
Harrison, Richard, III, Shriver, and Holland. 3,016,115.

Holland, Blaine J.: *See*—
Grillen, August B., Holland, Pope, and Steigleder. 3,045,619.

Holland Co.: *See*—
Carlson, Arthur H. 3,061,316.

Holland, Cyril T. True grade apparatus. 3,052,997, 9–11–62, Cl. 37—143.

Holland, Edward T., Jr.: *See*—
Walsh, John C., Haselton, Holland, and Juhl. 3,051,096.

Holland, Francis J.: *See*—
Sheriff, Merle M., and Holland. 3,063,527.

Holland, Geoffrey. Freight loading device. 3,066,619, 12–4–62, Cl. 105—368.

Holland, Gerald F., and W. M. McLamore, to Chas. Pfizer & Co., Inc. Arylsulfonylureas. 3,033,902, 5–8–62, Cl. 260—553.

Holland, Harry W.: *See*—
Urry, Lewis F., and Holland. 3,053,701.

Holland, Hubert R.: *See*—
Coleman, Anthony S., and Holland. 3,056,075.

Holland, James E.: *See*—
Lakatos, Emory, Holland, and Polzin. 3,047,822.

Holland, John H.: *See*—
Cetran, Louis, Arthur, and Holland. 3,019,881.

Holland, Joseph W. Cotton gin fire extinguisher. 3,059,701, 10–23–62, Cl. 169—2.

Holland, Leonide A., and L. Laurenson, to Edwards High Vacuum Ltd. Vapourisation of metals. 3,056,740, 10–2–62, Cl. 204—298.

Holland, Raymond P., Jr. Supersonic vertical-rising aircraft. 3,026,065, 3–20–62, Cl. 244—12.

Holland, Raymond P., Jr. Control-augmenting landing gear. 3,042,345, 7–3–62, Cl. 244—104.

Holland, Raymond P., Jr. Control means for aircraft in power-supported flight. 3,061 241, 10–30–62, Cl. 244—23.

Holland, Raymond P., Jr. Tiltable ducted fan aircraft. 3,065,929, 11–27–62, Cl. 244—12.

Holland, Russell S., to E. I. du Pont de Nemours and Co. Process for preparing phosphor grade metal sulfides. 3,058,-807, 10–16–62 Cl. 23—124.

Holland, Russell S., and R. E. Wayrynen, to E I. du Pont de Nemours and Co. Heat-sensitive compositions and elements, and processes for using same. 3,063,863, 11–13–62, Cl. 117—36.8.

Holland, Stephen D., to Shell Oil Co. Production of high molecular weight polyoxyalkylene compounds. 3,053,903, 9–11–62, Cl. 260—615.

Holland, Warren E.: *See*—
Kerver, John K., and Holland. 3,055,425.
Kerver, John K., and Holland. 3,070,161.
Kerver, John K., Holland, and Graham. 3,055,426.

Holland, William D., to American Cyanamid Co. Process for blending a hot polyester resin with a high boiling polymerizable monomeric material in the presence of a heat-transfer liquid. 3,036,031, 5–22–62, Cl. 260—45.4.

Hollander, C. Jay. Shoe cleat. 3,063,171, 11–13–62, Cl. 36—59.

Hollander, Lewis E., Jr., to Lockheed Aircraft Corp. Contact isolated potentiometer. 3,061,807, 10–30–62, Cl. 338—176.

Hollander, Michel, to Haniel und Lueg Gesellschaft mit Beschr. Haftung. Scavenger or pumping apparatus for deep well drilling. 3 039,396, 6–19–62. Cl. 103—54.

Hollands, George, to Bar-Ray Products, Inc. Radiation protection garment. 3,052,799, 9–4–62, Cl. 250—108.

Hollands, George, to Torjesen, Inc. Folding partition edging construction and edging therefor. 3,063,105, 11–13–62, Cl. 20—69.

Hollandse Signaalapparaten, N.V.: *See*—
Veldkamp, Jean H. 3,028,588.
Wiering, Louwrens J. R. 3,031,150.

Hollar, Arthur W., and A. Merlone, to General Motors Corp. Vehicle seat adjuster. 3,033,510, 5–8–62, Cl. 248—394.

Hollar, George E. Wheel disc retaining means. 3,066,986, 12–4–62, Cl. 301—37.

Holle, Kurt: *See*—
Reiff, Reinhard, Huber, and Holle. 3,049,536.

Holleen, Leonard F. Adjustable dock ramp. 3,059,258. 3,059,258 10–23–62, Cl. 14—71.

Holleman, Euclid C., to United States of America, National Aeronautics and Space Administration. Three axis controller. 3,028,126, 4–3–62, Cl. 244—83.

Hollenbach, Edwin A.: *See*—
Briggs, Thomas H., and Hollenbach. 3,016,489.

Hollenbeck, Clifford M., and J. M. Sheneman, to Wisconsin Malting Co. Mall-containing silage and method of making the same. 3,033,685, 5–8–62, Cl. 99—9.

Hollerer, Hanns: *See*—
Edhofer, Georg, Hollerer, Lebsanft, and Schmidt. 3 028,267.

Hollerith, Charles, to Walstrom Products, Inc. Davit. 3,034,156, 5–15–62, Cl. 9—39.

Hollerith, Charles. Cooking appliance. 3,056,013, 9–25–62, Cl. 219—43.

Holley Carburetor Co.: *See*—
Begian, Mehrin, and Miesiak. 3,026,890.
Benmore, Stanley H. 3,059,661.
Bettoni, Eugene C. 3 043,285.
Bettoni, Eugene C. 3,060,749.
Conti, Girard N. 3 036,456.
Conti, Girard N. and Stankowski. 3,067,709.
Cowles, Warren H., and Karpus. 3 033,277.
Cowles, Warren H., and Ladd. 3,037,350.
Cramer, Thomas F. 3,045,687.
Ensinger, Raymond L. 3 044 308.
Ensinger, Raymond L. 3,055,685.
Ensinger, Raymond L. 3,063,305.
Fleming, Robert S., Cowles, and Ensinger. 3 021,820.
Fleming, Robert S., Cowles, and Ensinger. 3,068,648.
Francis, Joseph E. 3,018,766.
Frank, Robert K. 3 021 898.
Garski, Chester S., and Phillips. 3,061,285.
Goodyear, Charles R. 3,017,902.
Griffen, Ralph R. 3 017 167.
Griffen, Ralph R. 3,051,193.
Griffen, Ralph R. 3,063,526.
Johnson, Kalin S. 3,023,947.
Johnson, Kalin S., and Frank. 3,051,150.

Holley Carburetor Co.: *See*—Continued
Kerr, Fred S. 3,020,904.
Kerr, Fred S. 3,049,110.
Kerr, Fred S., and Romanski. 3,021,449.
Kittler, Milton J. 3,034,529.
Kuhn, Karl R., and Giese. 3,057,607.
Ladd, Joseph M. 3,016,702.
Larges, Ernest R., Frank, and Kerr. 3,062,929.
Lucas, Alvin S. 3,058,727.
Manning, William O. 3,058,725.
Manning, William O., Jr. 3,048,671.
Marsee, Frederick J. 3,063,687.
Moseley, James T. W. 3,035,601.
Nold, Henry G. 3,063,622.
Romanski, Lon H. 3,029,892.
Scott, Ian J. C. 3,036,362.
Smith, John E. 3,016,843.
Smitley, Marion L. 3,059,692.
Sterner, Melvin F. 3,017,166.
Sterner, Melvin F. 3,028,847.
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Holliday, Gibson C.: *See*—
Keener, John. 3,052,485.
Holliday, Jerome E.: *See*—
Fisher, Robert M., and Holliday. 3,033,984.
Holliday, Jerome E., to United States Steel Corp. Apparatus for analyzing a sample of material. 3,042,801, 7–3–62, Cl. 250—51.5.
Holliday, L. B., & Co. Ltd.: *See*
North, Albert M., and Walker. 3,067,191.
Hollidge, Melvin S. Gate closing device. 3,036,330, 5–29–62, Cl. 16—80
Hollies, Norman R. S.: *See*—
Bogaty, Herman, Hollies, and Hintermaier. 3,060,551.
Hollingsworth, Clinton A., to Smith-Douglass Co., Inc. Counterflow hydro-deslimer. 3,070,228, 12–25–62, Cl. 209—160.
Hollingsworth, Ernest H., and F. Keller, to Aluminum Co. of America. Decorative aluminum article and method for making the same. 3,043,734, 7–10–62, Cl. 204—29.
Hollingsworth, R. Lee. Bowling apparatus. 3,025,060, 3–13–62, Cl. 273—37.
Hollingsworth, R. Lee. Garment hangers. 3,055,565, 9–25–62, Cl. 223—91.
Hollingsworth & Vose Co.: *See*—
Dow, Leslie A., Fredrickson, and Parsons. 3,044,957.
Parmele, Harris B. 3,039,908.
Hollington, George: *See*—
Tusa, John, and Hollington. 3,064,288.
Hollis, Jesse H., to Signal-Stat Corp. Reflector devices. 3,057,261, 10–9–62, Cl. 88—81.
Hollis, Brooks S. Trailer coupling. 3,046,038, 7–24–62, Cl. 280—512.
Hollis, Clinton R., to International Paper Co. Inner valve sleeve machine. 3,045,559, 7–24–62, Cl. 93—8.
Hollis, Jack L.: *See*—
Brown, Roy W., and Hollis. 3,038,716.
Hollis, James L., to Rixon Electronics, Inc. Reduction of multipath effects by frequency shift. 3,020,399, 2–6–62, Cl. 250—8.
Hollis, John C., to Giddings & Lewis Machine Tool Co. Machine tool transmission and controls therefor. 3,027,782, 4–3–62, Cl. 74—751.
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Hollis, Richard J.: *See*—
Checkley, Peter E., and Hollis. 3,033,386.
Hollis, Thomas W., Jr., to United States of America, Navy. Radar testing device. 3,024,461, 3–6–62, Cl. 343—17.7.
Hollister, Alice E. and W. E., ½ to Gadget-of-the-Month Club, Inc. Sewing guide attachment for a sewing machine. 3,028,822, 4–10–62, Cl. 112—153.
Hollister, Allen R., to Pratt & Whitney Co., Inc. Pneumatic gaging device. 3,021,705, 2–20–62, Cl. 73—37.9.
Hollister Inc.: *See*—
St. John, Cody. 3,027,665.
Hollister William E.: *See*—
Hollister, Alice E. and W. E. 3,028,822.
Hollman, Henry, and L. Weisglass, to X-Ray Mfg. Corp. of America. Panoramic X-ray machines. 3,045,118, 7–17–62, Cl. 250—61.5.
Hollmann, Hans E., to Dresser Industries, Inc. Accelerometer. 3,035,449, 5–22–62, Cl. 73—490.
Hollmann, Hans E., to Dresser Industries, Inc. Integrator. 3,043,143, 7–10–62, Cl. 73—231.
Hollmann, Julius Z., and J. F. Schultz, to The Patent and Licensing Corp. Insulating siding. 3,034,261, 5–15–62, Cl. 50—253.
Hollocher, Clinton: *See*—
Robinson, Donald B., and Hollocher. 3,039,072.
Hollopeter, John H., to General Electric Co. Filament feeding and storage apparatus. 3,033,418, 5–8–62, Cl. 221—13.
Holloran, T. E.: *See*—
Dotzenroth, Paul N. 3,015,921.
Holloway, Arthur M. Ski rope retracting mechanism. 3,027,-116, 3–27–62, Cl. 242—86.5.
Holloway, Dennis G., and G. E. Parrett, to British Telecommunications Research Ltd. Means for locating an inoperative signalling repeater. 3,054,865, 9–18–62, Cl. 179—175.31.
Holloway, John L. Folding stadium chair. 3,026,142, 3–20–62, Cl. 297—252.
Holloway, John W. Method and apparatus for providing conduits in molded concrete slabs. 3,037,326, 6–5–62, Cl. 50—127.
Holloway, Joseph H.: *See*—
Lipps, Frederick W., Jr., and Holloway. 3,060,385.
McCoubrey, Arthur O., Holloway, Mainberger, and Guy. 3,060,384.
Holloway, Joseph J., to Bailey Meter Co. Apparatus for measuring the flexibility of materials. 3,057,191, 10–9–62, Cl. 73—100.
Holloway, Robert L., to American Machine & Foundry Co. Bond joints for a bicycle frame. 3,030,124, 4–17–62, Cl. 280—281.
Holloway, Robert L., to American Machine & Foundry Co. Bowling pin elevating mechanism. 3,048,397, 8–7–62, Cl. 273—43.
Holloway, Robert L., to American Machine & Foundry Co. Self-leveling storing and dispensing apparatus. 3,053,600, 9–11–62, Cl. 312—71.
Holloway, Robert L., to American Machine & Foundry Co. Bowling ball return mechanism. 3,068,006, 12–11–62, Cl. 273—49.
Holloway, Robert L., and E. R. McCarten, to American Machine & Foundry Co. Self-leveling dispenser. 3,033,-633, 5–8–62, Cl. 312—214.
Holloway, Robert L., and A. C. Wall, to American Machine and Foundry Co. Acceleration testing apparatus. 3,067-620, 12–11–62 (? 73—432.
Holloway, Robert M.: *See*—
Nitsch, Robert A. 3,037,587.
Holloway, Robert M., and R. L. Ludington. Arrangement to control power source movement via slack elimination in a brake rigging or the like. 3,040,844, 6–26–62, Cl. 188—200.
Holloway, Thomas M., to Johnson Service Co. Differential temperature controllers. 3,016,746 1–16–62, Cl. 73—362.3.
Holloway, Thomas M., to Johnson Service Co. Pressure selector. 3,042,062, 7–3–62, Cl. 137—112.
Hollowell, John V.: *See*—
Keith, Wayland D., and Hollowell. 3,015,488.
Hollowell, Joseph L., to E. I. du Pont de Nemours and Co. Sheet material and process of making same. 3,067,482, 12–11–62, Cl. 28—74.
Hollowell, Joseph L., to E. I. du Pont de Nemours and Co. Sheet material and process of making same. 3,067,483, 12–11–62, Cl. 28—80.
Hollwick, Inc.: *See*—
Renwick, Frederick W., Sr., and Bush. 3,036,452.
Holly, Harry H., to Hollymatic Corp. Molding device. 3,031,872, 11–6–62, Cl. 17—32.
Hollyday, James H.: *See*—
Tarbox, John P., and Hollyday. 3,059,755.
Hollyday, James H., to Sperry Rand Corp. Conveyor. 3,055,-519, 9–25–62, Cl. 214—42
Hollyday, William C., Jr.: *See*—
Wythe, Stephen L., and Hollyday. 3,037,850.
Wythe, Stephen L., and Hollyday. 3,069,245.
Hollyday, William C., Jr., to Esso Research and Engineering Co. Multi-functional middle distillate additive. 3,042,505, 7–3–62, Cl. 44—62.
Hollymatic Corp.: *See*—
Holly, Harry H. 3,061,872.
Holm, Astrid: *See*—
Binder, Karl, and Holm. 3,020,761.
Holm, Bengt, to Svenska Aktiebolaget Gasaccumulator. Sector light. 3,054,086, 9–11–62, Cl. 340—25.
Holm, Christian W.: *See*—
Binder, Karl, and Holm. 3,020,761.
Holm Instrument Co., Inc.: *See*—
Lyon Floyd A., and Aronson. 3,067,871.
Holm Le Roy W.: *See*—
Woertz, Byron B., and Holm. 3,032,101.
Holm, LeRoy W., to The Pure Oil Co. Secondary recovery of oil from underground reservoirs. 3,033,288, 5–8–62, Cl. 166—9.
Holm, Le Roy W., to The Pure Oil Co. Oil recovery process. 3,065,790, 11–27–62, Cl. 166—9.
Holm, Tage: *See*—
Jansson, Nils, and Holm. 3,064,093.
Holm, Vernon C. F., and G. C. Bailey, to Phillips Petroleum Co. Sulfate-treated zirconia-gel catalyst. 3,032,599, 5–1–62, Cl. 260—683.64.
Holm, Vernon C. F., G. C. Bailey, and A. Clark, to Phillips Petroleum Co. Nickel oxide catalyst and their use in polymerizing olefins. 3,045,054, 7–17–62, Cl. 260—683.15.
Holman, Herbert H. Invertable container. 3,040,897, 6–26–62, Cl. 210—244.
Holman, Mayer S. Removable buttons. 3,061,902, 11–6–62, Cl. 24—97.
Holman, Robert W., to United States Steel Corp. Production of flat high strength steel sheets 3,028,468, 4–3–62, Cl. 219—7.5.
Holman, Robert W., to United States Steel Corp. Motor speed control system. 3,029,373, 4–10–62, Cl. 318—317.
Holman, Rudolph G., to W. J. Voit Rubber Corp. Stacking machine. 3,031,906, 5–1–62, Cl. 83—94.
Holman, Rudolph C., to W. J. Voit Rubber Corp. Continuous stacking system. 3,032,337, 5–1–62, Cl. 270—79.
Holmberg, Arne. Clamping device. 3,070,380, 12–25–62, Cl. 279—51.

Holmberg, Arne F., N. B. Hellkvist, and W. P. Raub, to Telefonaktiebolaget L M Ericsson. Electric arrangement with a core of magnetic material and at least one winding. 3,068,436, 12–11–62, Cl. 336—212.
Holmberg, Carl O., Jr., and G. I. Ferguson, Jr. Apparatus for rearranging bundles of lumber. 3,053,405, 9–11–62, Cl. 214—620.
Holmberg, Dewey M.: *See*—
Perkins, John L., and Holmberg. 3,063,958.
Holmberg, Kari E. O., to Quartz & Silice S.A. Separation of boron isotopes. 3,050,367, 8–21–62, Cl. 23—205.
Holmboe, Lawrence S. Shore clamp. 3,065,984, 11–27–62, Cl. 287—103.
Holme, Jack: *See*—
Randell, Geoffrey E. C., and Holme. 3,037,227.
Randell, Geoffrey E. C., Whitworth, and Holme. 3,056,699.
Holmes, Alan W., to Lever Brothers Co. Treatment of keratinous fabrics and fibres. 3,046,080, 7–24–62, Cl. 8—128.
Holmes, Arthur B., to Holmfress Piles Ltd. Reinforced concrete piles. 3,060,694, 10–30–62, Cl. 61—53.62.
Holmes, Arthur J., to Olin Mathieson Chemical Corp. Electrolytic production of sodium chlorate. 3,043,757, 7–10–62, Cl. 204—95.
Holmes, Arthur J., and W. C. Gardiner, to Olin Mathieson Chemical Corp. Diaphragmless monopolar electrolytic cell. 3,055,821, 9–25–62, Cl. 204—270.
Holmes, Charles R., and D. J. Piper, to Seismograph Service Corp. Electrodes for electrical well logging. 3,054,046, 9–11–62, Cl. 324—1.
Holmes, David D., to Radio Corp. of America. Transistorized direction finder receiver having a local audio signal modulated on the mixer. 3,018,369, 1–23–62, Cl. 250—8.
Holmes, Earle F.: *See*—
Kemp, Charles R., and Holmes. 3,036,229.
Holmes Electric Protective Co.: *See*—
Everett, Charles J. 3,054,869.
Holmes, Elmond A., to United States of America, Navy. Antenna, comprising electrodes for use in dissipative medium. 3,048 136, 8–7–62, Cl. 114—20.
Holmes, Ernest, Co.: *See*—
Cline, Earl E. 3,024,918.
Holmes, Francis W., and J. S. Demaradzki. Method of treating wounds in trees and shrubs. 3,039,230, 6–19–62, Cl. 47—8.
Holmes, Gene C. Means of flight control of a helicopter. 3 048,353, 8–7–62, Cl. 244—23.
Holmes, George B., C. H. Sinclair, P. L. Alexander, Jr., and R. L. Vernon. Machine for packaging cylindrical objects. 3,016,663, 1–16–62, Cl. 53—32.
Holmes, John B., 10% to P. R. Mather. Apparatus for laying building blocks. 3,039,233, 6–19–62, Cl. 50—538.
Holmes, John B. Combined washer, separator and grader for loose materials 3,042,208, 7–3–62, Cl. 209—442.
Holmes, Mark N.: *See*—
Burleson, Aaron, and Holmes. 3,069,883.
Holmes, Paul J., to Borg-Warner Corp. Condition responsive apparatus. 3,067,615, 12–11–62, Cl. 73—398.
Holmes, Peter D.: *See*—
Bourne, Kenneth H., and Holmes. 3,041,385.
Holmes, Richard R., and N. T. Anderson, to Monsanto Chemical Co. Paper manufacture from synthetic non-cellulosic fibers. 3,047,455, 7–31–62, Cl. 162—157.
Holmes, Robert O.: *See*—
Kosa, Tibor, Rozsa, and Holmes. 3,067,959.
Rozsa, Tibor A., and Holmes. 3 015 392.
Rozsa, Tibor A., and Holmes. 3,015,393.
Holmes, Ronald L. W.: *See*—
Ross, John W., Holmes, and Wilson. 3,032 053.
Holmes, Royal W. Incentive device. 3,035,355, 5–22–62, Cl. 35—23.
Holmes, Stanley B. Fishing reel. 3,034,604, 5–15–62, Cl. 188—90.
Holmes, Stanley H. Hydraulic molding apparatus. 3,052,918, 9–11–62, Cl. 18—16.
Holmes, Thomas G., to Soroban Engineering, Inc. Tally instruction apparatus for automatic digital computers. Re. 25,120, 2–6–62, Cl. 235—157.
Holmes, Trent H., to United Aircraft Corp. High-temperature dual-seat gate valve. 3,038,692, 6–12–62, Cl. 251—167.
Holmes, Trent H., to United Aircraft Corp. Control for missile having a plurality of jet engines. 3,060,684, 10–30–62, Cl. 60—35.6.
Holmes, W. C., & Co. Ltd.: *See*—
Broomhead, Frank, and Priestley. 3,034,774.
Holmes, Walter L., and R. C. Balfour, to Shell Oil Co. Polymer recovery process. 3,031,424, 4–24–62, Cl. 260—23.7.
Holmes, William C. Safety device for crane boom control. 3,034,620, 5–15–62, Cl. 192—12.
Holmes, William C. Boom controlling device for power cranes. 3,043,445, 7–10–62, Cl. 212—39.
Holmfress Piles Ltd.: *See*—
Holmes, Arthur B. 3,060,694.
Holmgren, Frank A. and F. I. Signals for mailboxes. 3,026,024, 3–20–62. Cl. 232—35.
Holmgren, Freda I.: *See*—
Holmgren, Frank A. and F. I. 3,026,024.
Holmgren, William C., to American Grease Stick Co. Lubricant composition. 3,036,002, 5–22–62, Cl. 252—28.
Holmlund, Chester E.: *See*—
Feldman, Louis I., Rigler, Holmiund, and Nielsen. 3,063,991.
Holmlund, Chester E., and W. W. Andres, to American Cyanamid Co. Process for the 12a-hydroxylation of 12a-deoxytetracyclines. 3,043,877, 7–10–62, Cl. 260—559.
Holmlund, Chester E., L. I. Feldman, H. M. Kissman, and M. J. Weiss, to American Cyanamid Co. Substituted steroids of the pregnane series. 3,047,569, 7–31–62, Cl. 260—239.55.
Holmquist, Ernst R. M. Axial flow gas turbine. 3,042,366, 7–3–62, Cl. 253—39.15.
Holmquist, Howard E., to E. I. du Pont de Nemours and Co. Cycloheptatrienes having imino and boron-substituted amino groups. 3,068,272, 12–11–62, Cl. 260—462.
Holmquist, John L., to Armco Steel Corp. Well installations and improved tubing therefor. 3,020,962, 2–13–62, Cl. 166—242.
Holmquist, Sixten, to Alwac International, Inc. Monobeam railway and vehicle equipment. 3,060,867, 10–30–62, Cl. 105—145.
Holmstrom, Anders A. W.: *See*—
Johnson, Sven H., and Holmstrom. 3,069,839.
Holmstrom, Ernest R.: *See*—
Holmstrom, Merrill E., Holmstrom, and Marcus. 3,049,459.
Holmstrom, John G., to Pacific Car and Foundry Co. Air spring front end suspension. 3,069,185, 12–18–62, Cl. 280—124.
Holo-Flite International Inc.: *See*—
Christian, Joseph D. 3,056,054.
Holohan, Bartholomew A., to Club Razor Corp. Razor blade dispenser. 3,052,374, 9–4–62, Cl. 221—59
Holopainen, Pekka V. Device for receiving, transporting and discharging granular and powdery materials. 3,052,996, 9–11–62, Cl. 37—118.
Holopainen, Vaino J., to Wain-Roy Corp. Coupling. 3,047,109, 7–31–62. Cl. 189—36.
Holopainen, Vaino J., and J. F. King, to Wain-Roy Corp. Excavating apparatus. 3,057,494, 10–9–62, Cl. 214—138.
Holophane Co., Inc.: *See*—
Franck, Kurt, and Wince. 3,038,065.
Holoubek, Joseph B., and K. R. Lagler, to Western Electric Co., Inc. Article inserting apparatus. 3,064,338, 11–20–62, Cl. 29—203.
Holovka, Charles, Jr.: *See*—
Johnson, Oliver D., and Holovka. 3,015,168.
Holsber, Marcus. Electric fan base. 3,052,400, 9–4–62, Cl. 230—254.
Holpuch, Clarence J.: *See*—
Guzskie, Stanley, Holpuch, and Marks. 3,033,930.
Holroyd, Eric, and F. W. Waldron, to Dunlop Rubber Co. Ltd. Apparatus for supplying sheet material to a tire building machine. 3,044,727, 7–17–62, Cl. 242—67.3.
Holroyd, John, & Co. Ltd: *See*—
Stott, Frank T. 3 016,572.
Holsclaw, Charles H. Trailer boat guide. 3,031,093, 4–24–62, Cl. 214—505.
Holsclaw, Charles H. Trailer construction for boats having warped undersurface. 3,058,756, 10–16–62, Cl. 280—414.
Holshouser, Robert J.: *See*—
Croxton, William B., and Holshouser. 3,015,147.
Holshouser, Robert L. to The Dow Chemical Co. Lubricating method for the continuous casting of readily oxidizable metals. 3,034,186, 5–15–62, Cl. 22—200.1.
Holsinger, Wilbur V., to Paragon Development, Inc. Device for protecting and locating outlet boxes or the like in plastered walls. 3,059,803, 10–23–62, Cl. 220—3.4.
Holsman, Henry T. Block wall reinforcement. 3,059,380, 10–23–62, Cl. 50—492.
Holsong, Gunther C.: *See*—
Holstein, Arthur G, and Holsong. 3,050,444.
Holst, Fred W. Hand and circular saw setting tool. 3,067,634, 12–11–62, Cl. 76—63.
Holst, Johannes M.: *See*—
Boerdijk, Arie H., and Holst. 3,034,081.
Holstein, Alvin W., to National Vendors, Inc. Article dispensing apparatus. 3,028,994, 4–10–62, Cl. 221—112.
Holstein, Alvin W., and J. T. Schuller, to National Vendors, Inc. Coin apparatus. 3,028 940, 4–10–62, Cl. 194—19.
Holstein, Arthur G., to Pfanstiehl Laboratories, Inc. Method of preparing calcium glucoheptonate. 3,033,900, 5–8–62, Cl. 260—535.
Holstein, Arthur G., and G. C. Holsong, to Dawes Laboratories, Inc. Method for the production of levulose. 3,050,444. 8–21–62 Cl. 195—31.
Holstein, Otto H. A., and E. Gross, to International Standard Electric Corp. Control attachment for electro-mechanically operated communication apparatus used in pulse-code systems. 3,048,656, 8–7–62, Cl. 178—27.
Holstius, Elvin A., to Geigy Chemical Corp. Aryloxy acetic acid amides: process for parenteral application. 3,044,931, 7–17–62, Cl. 167—52.
Holt, Arthur D., to The Jeffrey Galion Mfg. Co. Vibrating conveyor and assembly means therefor. 3,045,810, 7–24–62, Cl. 198—220.
Holt, Arthur W., to Rabinow Engineering Co., Inc. Typewriter key cap switch for additional signals. 3,020,995, 2–13–62, Cl. 197—1.
Holt, Edwin L. Water ski and tow line storage rack and boat boarding ladder. 3,021,917, 2–20–62, Cl. 182—95.
Holt, Fletcher O.: *See*—
Lavery, Charles A., and Holt. 3,053,157.

Holt, Hillis W., to Conarb Corp. System for broadcasting electromagnetic waves. 3,037,112, 5–29–62. Cl. 250—17.
Holt, Howard R. Embalmer's hand holder. 3,044,144, 7–17–62, Cl. 27—21.
Holt, John E., to The Wurlitzer Co. Switch arrangement for electronic organs. 3,060,784, 10–30–62, Cl. 84—423.
Holt, Joseph, to General Railway Signal Co. Highway crossing gate control system for railroads. 3,034,240, 5–15–62, Cl. 39—7
Holt, Leonard: *See*—
Hammans, Reginald H., Holt, and Babbs. 3,067,282.
Holt, Walter E. Revolving mortar board. 3,055,721, 9–25–62, Cl. 311—32.
Holt, William, 50% to A. F. Stanier. Method for cleaning the interior of television tubes for reconditioning. 3,035,-909, 5–22–62. Cl. 51—317.
Holt, William E. Floor machine with adjustable handle assembly. 3,027,581, 4–3–62, Cl. 15—49.
Holt, William E. Floor maintenance machines. 3,036,321, 5–29–62. Cl. 15—50.
Holt, William E. Floor surfacing machines. 3,039,241, 6–19–62, Cl. 51—194.
Holt, William L.: *See*—
Doyle, Robert, Holt, and Cooper. 3,019,488.
Holt, William M., to Lockheed Aircraft Corp. Magnetic separator. 3,021,951, 2–20–62, Cl. 209—221.
Holter, Dale E.: *See*—
McKnight, William B., and Holter. 3,054,899.
Holthofer, Donald J.: *See*—
Grabowski, Leonard R., and Holthofer. 3,059,494.
Holtkamp, William E., Jr.: *See*—
Blake, Norman B., and Holtkamp. 3,063,053.
Holton, Percy G., to Syntex S.A. Quarternary ammonium salts of 3*β*,20*β*-diamino-allopregnanes. 3,035,066, 5–15–62, Cl. 260—397.
Holton, Percy G., to Syntex S.A. Quaternary ammonium salts of 20*β*-amino-allopregnane-3*β*-ol. 3,036,097, 5–22–62, Cl. 260—397.5.
Holton, Robert J., to Tinnerman Products, Inc. Fastening device. 3,037,254, 6–5–62, Cl. 24—73.
Holton, Robert J., to Tinnerman Products, Inc. Fastening devices. 3,037,729, 6–5–62, Cl. 248—71.
Holton, Robert J., to Tinnerman Products, Inc. Fastening devices. 3,066,900, 12–4–62, Cl. 248—73.
Holtschmidt, Hans.: *See*—
Ebersberger, Josef, Holtschmidt, and Stroh. 3,064,056.
Merten, Rudolf, von Brachel, Holtschmidt, and Hauptmann. 3,070,556.
Müller, Erwin, Holtschmidt, and Braün. 3,021,289.
Müller, Karl E., Holtschmidt, Morschel, and Braun. 3,026,275.
Von Brachel, Hanswilli, Esser, Holtschmidt, and Sinn. 3,070,584.
Wagner, Kuno, Muller, Holtschmidt, and Bayer. 3,043,-801.
Holtschmidt, Hans, ½ to Farbenfabriken Bayer Aktiengesellschaft, and ½ to Mobay Chemical Co. Polythioetherurethane casting and method of preparing same. 3,016,365, 1–9–62. Cl. 260—77.5.
Holtschmidt, Hans, ½ to Farbenfabriken Bayer Aktiengesellschaft, and ½ to Mobay Chemical Co. Production of polythioethers and polyurethanes therefrom. 3,027,353, 3–27–62. Cl. 260—77.5.
Holtschmidt, Hans, ½ to Farbenfabriken Bayer Aktiengesellschaft and ½ to Mobay Chemical Co. Preparation of polythioethers. 3,032,535, 5–1–62, Cl. 260—79.
Holtschmidt, Hans, and E. Muller, ½ to Farbenfabriken Bayer Aktiengesellschaft, and ½ to Mobay Chemical Co. Elastomeric polyurethanes. 3,027,354, 3–27–62, Cl. 260—77.5.
Holtschmidt, Hans, and G. Braun, to Farbenfabriken Bayer Aktiengesellschaft. Polyurethane plastic prepared from phosphorous containing isocyanates and compounds containing active hydrogen atoms. 3,054,756, 9–18–62, Cl. 260—2.5.
Holtschmidt, Rosemarie, to T. H. Goldschmidt A.G. Process of producing water-insoluble polymers of polyvinyl alcohol. 3,033,842, 5–8–62, Cl. 260—91.3.
Holtver-Cabot Corp.: *See*—
Durbin, Vernon. 3,047,188.
Holtz, Hans: *See*—
Grossteinbeck, Rolf, and Holtz. 3,025,860.
Holtz, Jacob. Method of making a bracket. 3,041,708, 7–3–62, Cl. 29—150.
Holtz, Ralph F.: *See*—
Bard, Francis N., Breitenstein, and Holtz. 3,046,958.
Holtz, Raymond K.: *See*—
Warrick, Edward C., Holtz, and Kmetz. 3,064,487.
Holtz, Tobenette: *See*—
O'Dair, James R., Solomon, and Holtz. 3,068,690.
Holtz, Walter E., to United States of America, Navy. Ejection apparatus. 3,017,835, 1–23–62, Cl. 102—49.
Holtzclaw, Grover B., to Parks-Cramer Co. Traveling cleaner with air-diverting means. 3,016,559, 1–16–62, Cl. 15—312.
Holtzclaw, Grover B., to Parks-Cramer Co. Apparatus for cleaning machines and room surfaces. 3,026,020, 3–20–62, Cl. 230—47.
Holtzclaw, Richard T., 50% to Perfection Mattress & Spring Co. Sofa-bed. 3,041,635, 7–3–62, Cl. 5—18.
Holub, Edward M.: *See*—
Kelley, Dewitt T., Babcock, and Holub. 3,033,133.
Holub, Fred F.: *See*—
Kantor, Simon W., and Holub. 3,036,990.
Kantor, Simon W., and Holub. 3,036,991.
Holub, Fred F., and S. W. Kantor, to General Electric Co. Amorphous aromatic polyester containing no aliphatic chain units. 3,036,992, 5–29–62, Cl. 260—47.
Holub Industries, Inc.: *See*—
Linden, Augus: R. 3,067,984.
Holy, Mitchel E., to Cooper Carton Corp. Carton structure. 3,062,367, 11–6–62, Cl. 206—45.31.
Holysz, Roman P., to The Upjohn Co. 1-phenethyl-4-piperidyl carbamates. 3,031,455, 4–24–62, Cl. 260—294.3.
Holysz, Roman P., to The Upjohn Co. N-phenethyl-piperidyl-4-a-ethyl-isovaleratis. 3,031,456, 4–24–62, Cl. 260—294.3.
Holz, George W., to Lindberg Engineering Co. Fluid heater. 3,046,378, 7–24–62, Cl. 219—10.51.
Holz, George W., to Lindberg Engineering Co. Furnace ladling apparatus. 3,050,794, 8–28–62, Cl. 22—79.
Holz, Harold O., to Massey-Ferguson Inc. Friction clutch mechanism. 3,021,931, 2–20–62, Cl. 192—48.
Holzapfel, Concha: *See*—
Holzapfel, George L. 3,067,020.
Holzapfel, George L. 80% to C. Holzapfel, and 20% to T. P. Mahoney. Carburetor for liquefied gaseous fuels. 3,067,-020, 12–4–62, Cl. 48—184.
Holzbock, Jack. Jack posts and means for forming the same. 3,027,140, 3–27–62, Cl. 254—98.
Holzbock, Werner G., to Vickers Inc. Controller. 3,064,682, 11–20–62, Cl. 137—623.
Holzboog, Walter H., and H. G. Reinhart, to Micro Controls, Inc. Regulators for gas burners. 3,065,913, 11–27–62, Cl. 236—68.
Hölzer, Carl to Th. Kieserling & Albrecht. Mechanical presses, particularly gang presses. 3,030,878, 4–24–62, Cl. 100—237.
Hölzer, Carl, to Th. Kieserling & Albrecht, Firma. Turning machine. 3,038,361, 6–12–62, Cl. 82—34.
Holzer, Helmut: *See*—
Bauer, Hans, and Holzer. 3,062,940.
Holzer, Johann, and Y. Narita, to United States of America, Army. Phase stable divider circuit. 3,052,854, 9–4–62, Cl. 331—51.
Holzer, Walter. Apparatus for controlling fully automatic washing machines. 3,032,617, 5–1–62, Cl. 200—38.
Holzer, Walter. Driving means of an impulse device and stepping mechanism for program contacts. 3,041,480, 6–26–62, Cl. 307—141.
Holzer, Walter. Impulse device connected with a motor in an automatic cut-out for the program control in washing-machines. 3,046,421, 7–24–62, Cl. 307—141.
Holzer, Walter. Reversal of rotation in opposite directions with lobes of the cam. 3,064,092, 11–13–62, Cl. 200—38.
Holzinger, Franz: *See*—
Schmidt, Heinz, Reinshagen, Ziemer, and Holzinger. 3,043,111.
Holzinger, Robert E.: *See*—
Chisholm, Douglas S., Freeman, Holzinger, and Price. 3,065,190.
Holzinger, Rudolph J., to Socony Mobil Oil Co., Inc. Fire-resistant hydraulic fluids. 3,019,190, 1–30–62, Cl. 252—75.
Holzkamp, Erhard: *See*—
Ziegler, Karl, Breil, Holzkamp, and Martin. 3,070,549.
Holzman, George: *See*—
Rush, Warren V., and Holzman. 3,028,441.
Holzmann, Ferdinand. Dry shaver device with spatially separated cutter teeth. 3,058,212, 10–16–62, Cl. 30—34.
Holzrichter, Hermann: *See*—
Dierichs, Helmut, and Holzrichter. 3,032,586.
Rosahl, Dietrich, Graulich, Holzrichter, and Hermann. 3,054,192.
Holzrichter, Hermann, K. Falk, and T. König, to Bayer Aktiengesellschaft, Farbenfabriken. Drying of wet powdery materials. 3,048,930, 8–14–62, Cl. 34—10.
Holzwarth, James C.: *See*—
Hornaday, James R., Jr., Vigor, Tobin, and Holzwarth. 3,019,513.
Holzwarth, James C., J. R. Hornaday, Jr., and C. W. Vigor, to General Motors Corp. Method of forming a protective coating on molybdenum. 3,019,516, 2–6–62, Cl. 29—198.
Homan, Jack R. Dynamoelectric apparatus. 3,017,553, 1–16–62, Cl. 318—199.
Homan, Robert M., to Gilbert Associates Inc. River water temperature control system. 3,061,276, 10–30–62, Cl. 257—310.
Homanick, George: *See*—
O'Neill, Joseph V., and Homanick. 3,063,507.
Hombak Maschinenfabrik K.G.: *See*—
Sybertz, Gustav J. and J. F., and Voelskow. 3,017,912.
Home Curtain Corp.: *See*—
Lepow, Edward J. 3,027,938.
Home Draught, Inc.: *See*—
Frankfurt, Sandor. 3,026,006.
Home For Incurables: *See*—
Cooper, Irving S., and Lee. 3,053,256.
Homelite, a division of Textron, Inc.: *See*—
Anderson, Albert E., and Newman. 3,059,397.
Home Metal Products Co.: *See*—
Stalker, James E. 3,064,551.
Home-O-Nize Co., The: *See*—
Howe, Stanley M. 3,024,075.
Homestead Valve Mfg. Co.: *See*—
Kulisek, Robert P. 3,056,576.
Kulisek, Robert P. 3,056,577.
Norris, Scott A. 3,025,597.
Simmons, Donald M., Jr. 3,049,302.

Homeyer, Bernhard: *See*—
Disselnkötter, Hans, and Homeyer. 3,036,951.
Heusch, Rudolf, and Homeyer. 3,070,491.
Homier, Paul A.: *See*—
Huntington, Dexter P., and Homier. 3,027,274.
Homier, Robert L., to American Metal Products Co. Multiple position seat track. 3,055,627, 9–25–62. Cl. 248—393.
Homkes, Bartell J., to General Electric Co. Refrigeration system. 3,052,100, 9–4–62, Cl. 62—3.
Homme, Vernon E.: *See*—
Baker, Don H., Jr., and Homme. 3,069,255.
Hommel, S.A.: *See*—
Heusser, Jean. 3,068,146.
Hompe, Robert W., C. Trezona, and A. E. Whitecar, to Smith, Kline & French Laboratories. Packaging apparatus. 3,016,672, 1–16–62, Cl. 53—373.
Homrighausen, William F. Tripod with plumb. 3,051,425, 8–28–62, Cl. 248—168.
Homs, Douglas M. Numbering machine for telephone number indicator discs and guide therefor. 3,064,565, 11–20–62, Cl. 101—368.
Honda, Seiichi, and Y. Nakazawa, to Toyotsushinki Kabushiki Kaisha (known as Toyo Communication Equipment Co., Ltd.). Mechanical filter. 3,015,789, 1–2–62, Cl. 333—72.
Honea, Charles R., C. A. Latta, and E. L. Pendleton, to The Dow Chemical Co. Acetic anhydride modified polyurethane. 3,054,778, 9–18–62, Cl. 260—77.5.
Honegger, Caspar: *See*—
Zollinger, Hans. 3,064,690.
Honeiser, Vladimir P.: *See*—
Whittle, Robert L., Jones, Honeiser, and Margetts. 3,036,291.
Honerkamp, Donald L., and C. N. Hudson, to Sinclair Research, Inc. Process for hydrocracking an asphalt residual feed stock. 3,055,822, 9–25–62, Cl. 208—61.
Honeycutt, Earl M., to Sun Oil Co. Process for removing naphthenic acids from hydrocarbons. 3,034,980, 5–15–62, Cl. 208—253.
Honeycutt, Earl M., to Sun Oil Co. Asphaltene fuel containing polypropylene. 3,036,900, 5–29–62. Cl. 44—25.
Honeycutt, Earl M., to Sun Oil Co. Preparation of benzene and toluene. 3,070,637, 12–25–62, Cl. 260—668.
Honeycutt Julian B., Jr., to Ethyl Corp. Production of metal organoboron compounds. 3,055,943, 9–25–62, Cl. 260—606.5.
Honeycutt Julian B., Jr., to Ethyl Corp. Production of metal organoboron compounds. 3,055,944, 9–25–62, Cl. 260—606.5.
Honeycutt. Julian B., Jr., to Ethyl Corp. Preparation of metal organoboron compounds. 3,055,945, 9–25–62, Cl. 260—606.5.
Honeycutt, Julian B., Jr., to Ethyl Corp. Preparation of vinyl metal compounds. 3,059,036, 10–16–62, Cl. 260—665.
Honeyman, Robert B., to Morden Machines Co. Rotor assembly and pulp treating machine. 3,023,972, 3–6–62, Cl. 241—255.
Honeyman, William N.: *See*—
Cole, Roy S., and Honeyman. 3,020,501.
Hong, James, R. G. Cathaway, H. K. Richter, and J. A. Hastings, to Lockheed Aircraft Corp. Trim compensator. 3,023,985, 3–6–62, Cl. 244—77.
Hönger, Guido, to Schweiz Gasapparatefabrik Solothurn. Radiating gas burner. 3 021,893, 2–20–62, Cl. 158—116.
Hönger, Guido, to Swiss Gas Stove Co. Radiating burner. 3,029,866, 4–17–62, Cl. 158—114.
Hönger, Guido, to Swiss Gas Stove Co. Radiating or incandescent gas burner. 3,044,538, 7–17–62, Cl. 158—116.
Hongo, Arnie J. Mechanical feed for solder gun. 3,031,562, 4–24–62. Cl. 219—27.
Honhart, Jack C. Holder for a welder's brush. 3,051,974, 9–4–62. Cl. 15—105.
Honig, Herbert G. High voltage disconnect splice head. 3,044,037, 7–10–62, Cl. 339—89.
Honn, Francis J., and J. M. Hoyt, to Minnesota Mining and Mfg. Co. Trifluorochloroethylene interpolymers. 3,053,-818, 9–11–62, Cl. 260—80.5.
Honnell, Pierre M., and R. E. Horn, to Washington University. Electric synthesizer of mathematical matrix equations. 3,038,660, 6–12–62, Cl. 235—180.
Honnold, James L., Jr., to United Engineers & Constructors Inc. Pyrolysis process. 3,039,955, 6–19–62, Cl. 208—132.
Honnore, Michel A. J.: *See*—
Zeus, Pierre M. F., and Honnore. 3,039,320.
Honolulu Iron Works Co.: *See*—
Farmer, John. 3,036,920.
Honor, Walter J., to Continental Can Co., Inc. Feeding and turn-over mechanism for inverted container end elements. 3,051,355, 8–28–62, Cl. 221—211.
Honsaker, Charles C., and W. S. Aseltine, said Aseltine assor. to said Honsaker. Treatment table. 3,060,925, 10–30–62, Cl. 128—25.
Honsberg, Gabruder: *See*—
Wollenhaupt, Jakob. 3,063,708.
Honsberg, Werner, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Electrolytic cells for the decomposition of alkali chlorides. 3,065,163, 11–20–62, Cl. 204—220.
Honsel, Carl. Method for producing carrying or shopping bags. 3,060,815, 10–30–62, Cl. 93—35.
Honsinger, Philip G., to American Radiator & Standard Sanitary Corp. Flow control having low pressure by-pass. 3,050,086, 8–21–62, Cl. 138—45.
Honsinger, Vernon B., to Allis-Chalmers Mfg. Co. Synchronous induction motor. 3,045,135, 7–17–62, Cl. 310—212.
Honzel, Cyz: *See*—
Couty, Donald E., and Simmons. 3,066,600.
Hood, Edwin E., to The Bendix Corp. Hub and coaster brake for velocipedes and the like. 3,070,199, 12–25–62, Cl. 192—6.
Hood, Edwin E., and H. K. Gleasman, to The Bendix Corp. Semi-automatic two-speed hub and coaster brake. 3,022,-682, 2–27–62, Cl. 74—750.
Hood, George C., R. E. Smith, and G. J. Pierotti, to Shell Oil Co. Purifying hydrogen peroxide. Re. 25,114, 1–9–62, Cl. 23—207.
Hood, H. P., & Sons, Inc.: *See*—
Lundstedt, Erik. 3,048,490.
Hood, Harold M.: *See*—
Stenbuck, Paul, and Hood. 3,049,544.
Hood, Harrison P.: *See*—
Bacon, James F., Elmer, and Hood. 3,032,659.
Hood, Henry A. Rope. 3,043,086, 7–10–62, Cl. 57—140.
Hood, R. H., Co.: *See*—
Kiwi, Walter. 3,017,985.
Hood, William C., and D. E. Baldwin, to Westinghouse Electric Corp. Fire-resistant decorated composite laminate members and method of producing same. 3,018,206, 1–23–62, Cl. 154—45.9.
Hoodwin, Louis S., to Electro-Voice, Inc. Loudspeaker. 3,016,430, 1–9–62, Cl. 179—115.5.
Hoof, Addison C., to Hoof Products Co. Utility carts with article supporting racks. 3,064,992, 11–20–62, Cl. 280—79.3.
Hoof Products Co.: *See*—
Hoof, Addison C. 3,064,992.
Hoof, Robert G., to The Bendix Corp. Anti-backlash drive system. 3,027,775, 4–3–62, Cl. 74—409.
Hoogendonk, Johan W.: *See*—
De Bruyne, Marinus A., Hoedemakers, and Hoogendonk. 3,055,049.
Winants, Gerard I. H., and Hoogendonk. 3,056,671.
Hoogestegер, Paul A., to Bausch & Lomb Inc. Photographic transparency mount adapter. 3,035,364, 5–22–62, Cl. 40—152.
Hook, Charles E.: *See*—
Bundy, Patrick L., Hook, and Reesman. 3,031,100.
Hook, Edwin O.: *See*—
Fay, Philip S., Hook, Hughes, and Liao. 3,031,280.
Hook, Edwin O., and D. P. Tate, to The Standard Oil Co. Motor fuel. 3,023,092, 2–27–62, Cl. 44—69.
Hook, Edwin O., and D. P. Tate, to The Standard Oil Co. Phosphorus-containing motor fuel. 3,060,009, 10–23–62, Cl. 44—69.
Hook, Harvey O.: *See*—
Murr, John, Jr., and Hook. 3,064,133.
Hook, Harvey O., and E. E. Loebner, to United States of America, Army. Multi-stable optical feedback storage operation. 3,031,579, 4–24–62, Cl. 250—213.
Hooke, Robert: *See*—
Kerstukos, Albert, Hooke, and Bollinger. 3,044,701.
Hooker Chemical Corp.: *See*—
Campbell, Donald H. 3,040,108.
Doane, Elliott P. 3,053,084.
Dorfman, Edwin, Weil, and Newcomer. 3,021,369.
Geering, Emil J. 3,038,014.
Gelfand, Samuel. 3,050,549.
Gordon, Irving, and Baranauckas. 3,054,718.
Hechenbleikner, Ingenuin, and Gaul. 3,056,823.
Heim, Mark W. 3,028,415.
Hildyard, Joseph M. 3,052,289.
Hindersinn, Raymond R., and Worsley. 3,055,849.
Hinkle, John H., Jr. 3,063,799.
Hinkle, John H., Jr., Weaver, and Smith. 3,058,803.
Hoch, Paul E. 3,040,106.
Hoch, Paul E. 3,040,107.
Hoch, Paul E. 3,062,898.
Hoch, Paul E., and Newcomer. 3,055,948.
Hooker, Thomas. 3,031,106.
Less, Frank W., Searer, and Roeck. 3,020,254.
Mekjean, Matthew, and Smack. 3,030,239.
Nelson, Samuel J. 3,022,277.
Pernert, John C., and Burghardt. 3,063,218.
Rapson, William H. 3,017,316.
Robitschek, Paul. 3,058,924.
Robitschek, Paul. 3,058,925.
Robota, Stephen. 3,023,086.
Schoepfle, Blaine O., and Robitschek. 3,031,425.
Schweiker, George C., and Robitschek. 3,016,360.
Schweiker, George C., and Robitschek. 3,016,361.
Shepard, Alvin F. 3,028,356.
Shepard, Alvin F. 3 0'8,357.
Verbanic, Carl J., Bean, and Robitschek. 3,055,932.
Wagner, George M. 3,054,698.
Weil, Edward D. 3,029,182.
Weil, Edward D. 3,037,907.
Weil, Edward D. 3,063,821.
Weil, Edward D. 3,063,825.
Weil, Edward D., Dorfman, and Newcomer. 3,029,137.
Weil, Edward D., Dorfman, and Newcomer. 3,048,483.
Weinberg, Alan E., Bean, Robitschek, and Schoepfle. 3,051,585.
Worsley, Michael, and Hindersinn. 3,036,999.
Worsley, Michael, and Hindersinn. 3,055,850.
Worsley, Michael, Wilson, and Schoepfle. 3,054,760.
Zimmer, William F., Jr. 3,028,410.

Hooker, Donald E., and R. A. Tojza, to Lion Mfg. Corp. Simulated bowling pin with angular reaction. 3,063,715, 11–13–62, Cl. 273—41.

Hooker, Ralph J., R. W. Macaulay, and J. O. Blanton, to United States of America, Air Force. Wide flow range fuel injector. 3,045,920, 7–24–62, Cl. 239—105.

Hooker, Samuel A. New composition of matter. 3,067,046, 12–4–62, Cl. 106—15.

Hooker, Thomas, to Hooker Chemical Corp. Apparatus and process for transferring resinous materials. 3,031,106, 4–24–62, Cl. 222—146.

Hooks, Donald Q. Well tool coupling device. 3,021,160, 2–13–62, Cl. 287—119.

Hookway, William C., to Cooper Alloy Corp. Valve for fire protection. 3,015,337, 1–2–62, Cl. 137—75.

Hooper, Brian E., to Packard-Bell Electronics Corp. Signaling system. 3,049,586, 8–14–62, Cl. 178—6.8.

Hooper, Brian E. Negative enlarger using closed loop television. 3,049,590, 8–14–62, Cl. 178—6.8.

Hooper, Brian E., to Packard-Bell Electronics Corp. Omnidirectional portable antenna. 3,049,711, 8–14–62, Cl. 343—702.

Hooper, Clive W.: *See*—
Bond, Norman J., and Hooper. 3,062,081.

Hooper, Edward, ½ to Aero & Engineering (Merseyside) Ltd. Hose reels and valves operated thereby. 3,050,078, 8–21–62, Cl. 137—355.19.

Hooper, Edward, ½ to Aero & Engineering (Merseyside) Ltd. Devices responsive to fracture of a frangible member. 3,050,272, 8–21–62, Cl. 242—86.

Hooper, Edward, ½ to Aero & Engineering (Merseyside) Ltd. Fluid-flow control valves. 3,067,954, 12–11–62, Cl. 239—458.

Hooper, Fred L., to Cambridge Wire Cloth Co. Construction of collapsible sanitary wire belts. 3,043,544, 7–10–62, Cl. 245—6.

Hooper, Fred L. Construction of collapsible sanitary wire belts. 3,069,121, 12–18–62, Cl. 245—6.

Hooper, Irving R.: *See*—
Schmitz, Henry, Hooper, Lein, and Heinermann. 3,060,099.

Hooper, Irving R., O. B. Fardig, and J. Lein, to Bristol-Myers Co. Temomycin and its production. 3,061,516, 10–30–62, Cl. 167—65.

Hooper, Leonard C., to The Procter & Gamble Co. Molding apparatus and method. 3,034,177, 5–15–62, Cl. 18—40.

Hooper, Louis R., and R. L. Watkins, to Crane Co. Leak detecting apparatus. 3,030,023, 5–8–62, Cl. 73—45.5.

Hoopes, Amerette W., to DePuy Mfg. Co., Inc. Cast cushion. 3,068,861, 12–18–62, Cl. 128—83.5.

Hooten, Basil P., Jr.: *See*—
Slavin, Michael, and Hooten. 3,040,214.

Hooton, Donald F.: *See*—
Hooton, Henry W., Hooton, and Ojala. 3,053,306.

Hooven, Frederick J., to American Metal Products Co. Vehicle steering mechanism. 3,021,721, 2–20–62. Cl. 74—496.

Hooven, Frederick J., to Ford Motor Co. Vehicular power plant. 3,052,313, 9–4–62, Cl. 180—55.

Hooven, Frederick J., and R. C. O'Brien, to Harris-Intertype Corp. Photographic type composition. Re. 25,128, 2–27–62, Cl. 95—4.5.

Hoover Ball and Bearing Co.: *See*—
Doie, Marion E. 3,042,237.
Fischer, Edward. 3,063,092.
Hobler, Robert L., and Varnell. 3,061,749.
Neely, William H. 3,022,522.
Neely, William H. 3,040,343.
Neely, William H. 3,042,099.
Neely, William H. 3,044,831.
Neely, William H. 3,051,471.
Sandor, William C. 3,023,037.

Hoover Bros., Inc.: *See*—
Hillyer, Murrel N., and Maxey. 3,025,757.

Hoover, Charles J.: *See*—
Hawk, Thomas F. 3,049,070.

Hoover, Charles O. Corrosion inhibitor. 3,033,781, 5–8–62. Cl. 208—288.

Hoover, Clinton E., to American Machine and Metals, Inc. Nozzle. 3,019,993, 2–6–62, Cl. 239—407.

Hoover Co., The: *See*—
Carabet, George F. 3,020,577.
Gerber, Dale C. 3,020,576.
Gerber, Dale C. 3,040,365.
Helm, Mark W. 3,040,350.
Krammes, Don C. 3,040,362.
Krammes, Don C. 3,060,484.
Krammes, Don C., and Segesman. 3,040,363.
Kurlinski, Dale T. 3,045,371.
Searle, Walter W. R. 3,058,329.
Sibbald, Frederick R. 3,060,764.
Vance, John E. 3,040,366.

Hoover, Fred W., to E. I. du Pont de Nemours and Co. β-polyhalo-α-hydroxyisocyanates and their preparation. 3,040,082, 6–19–62, Cl. 260—453.

Hoover, Herbert L., and N. D. Van Dyke, to Corning Glass Works. Ultrasonic delay line. 3,051,915, 8–28–62, Cl. 333—30.

Hoover, John R. E.: *See*—
Chow, Alfred W., and Hoover. 3,041,332.

Hoover, Vaino A. Motor control by mechanical actuator with intermediate position cam arrangement. 3,048,760, 8–7–62, Cl. 318—467.

Hope, Boneva L.: *See*—
Page, Rory E. Re. 25,122.

Hope, Charles L.: *See*—
Page, Rory E. Re. 25,122.

Hope, Marion R., to E. I. du Pont de Nemours and Co. Traverse thread guide. 3,042,341, 7–3–62, Cl. 242—157.

Hopengarten, Abram: *See*—
Creamer, Edgar M., Jr., and Hopengarten. 3,041,496.

Hopf, Adolf, Metallwerke, K.G.: *See*—
Hoffmann, Franz. 3,064,844.

Hopfeld, Fred P., to Grand Specialties Co. Manipulator apparatus. 3,044,647, 7–17–62, Cl. 214—652.

Hopfeld, Fred P., to Grand Specialties Co. Lift truck. 3,052,323, 9–4–62, Cl. 187—10.

Hopfer, Samuel, to Polytechnic Research & Development Co., Inc. T-junction standing wave indicator. 3,019,386, 1–30–62, Cl. 324—58.

Hopff, Heinrich: *See*—
Behrends, Jurgen, Schweitzer, Kerner, and Hopff. 3,020,264.

Hopff, Heinrich, and A. Wick, to J. R. Geigy, A.-G. Hexachylidene-cyclohexane. 3,060,246, 10–23–62, Cl. 260—666.

Hopkin, Peter R.: *See*—
Haslett, Roy W., Hopkin, and Benning. 3,019,411.

Hopkins, Charles: *See*—
Manz, August F., Hopkins, and Peterson. 3,054,884.

Hopkins, Earl E., to General Electric Co. Assembly machine for push button switches. 3,066,395, 12–4–62, Cl. 29—203.

Hopkins, Ervin W.: *See*—
Gretler, Albert C., Wilcox, and Hopkins. 3,068,104.

Hopkins, Ervin W., and L. J. Zimont, to Armour & Co. Meat packaging process. 3,049,428, 8–14–62, Cl. 99—174.

Hopkins, Frank L.: *See*—
Helm, Jack D., and Hopkins. 3,050,918.
Helm, Jack D., and Hopkins. 3,051,297.

Hopkins, Frank L., to Bemis Bro. Bag Co. Bag top closure with carrying handle. 3,026,017, 3–20–62, Cl. 229—65.

Hopkins, Frank L., and H. K. Fox, to Bemis Bro. Bag Co. Conveyors. 3,021,939. 2–20–62, Cl. 198—131.

Hopkins, Frank P. Trolling tube. 3,068,606, 12–18–62, Cl. 43—43.1.

Hopkins, G., & Sons, Ltd.: *See*—
Reeve, John E. 3,032,078.
Reeve, John E. 3,036,586.
Reeve, John Edwin. 3,045,718.

Hopkins, Jack R., and W. Parkinson, to W. E. Sykes Ltd. Gear cutting machines. 3,024,707, 3–13–62, Cl. 90—7.

Hopkins, John P., to C. L. Alger Co., Inc. Process of improving and preforming binding. 3,045,463, 7–24–62, Cl. 69—21.

Hopkins, John F.: *See*—
Barker, Arthur, and Hopkins. 3,065,986.

Hopkins, John H.: *See*—
Morris, William H., and Hopkins. 3,043,885.

Hopkins, John J., to United States of America, Navy. Fuze. 3,027,842 4–3–62, Cl. 102—70.2.

Hopkins, John J., to United States of America, Navy. Deferred action battery. 3,053,928, 9–11–62, Cl. 136—90.

Hopkins, Joseph H., to General Motors Corp. Socket and connector means. 3,025,491, 3–13–62, Cl. 339—176.

Hopkins, Joseph H., to General Motors Corp. Electric terminal means. 3,037,183, 5–29–62, Cl. 339—217.

Hopkins, Joseph H., to General Motors Corp. Article of Manufacture. 3,048,674, 8–7–62, Cl. 200—61.7.

Hopkins, Joseph H., and A. S. Van Slyke, to General Motors Corp. Terminal means. 3,021,503, 2–13–62, Cl. 339—213.

Hopkins, Joseph H., and A. S. Van Slyke, to General Motors Corp. Terminal means. 3,065,448, 11–20–62, Cl. 339—217.

Hopkins, Leigh G., to Westinghouse Electric Corp. Door mounting. 3,030,656, 4–24–62, Cl. 16—147.

Hopkins, Peter S. Residual drip arrester for bottles. 3,063,590, 11–13–62, Cl. 215—100.5.

Hopkins, Robert C.: *See*—
Cypser, Rudolph J., Harrington, Hopkins, Housman, Jeffrey, and Ross. 3,056,110.

Hopkins, Robert E., to General Precision, Inc. Lens with remote entrance pupil. 3,039,360, 6–19–62, Cl. 88—57.

Hopkins, Robert K. to Firth Sterling, Inc. Producing superior quality ingot metal. 3,067,473, 12–11–62, Cl. 22—212.

Hopkins, Robert P.: *See*—
Shaw, Robert S., and Hopkins. 3,024,207.

Hopkins, Robert W., to Pittsburgh Plate Glass Co. Method of preparing glass. 3,065,090, 11–20–62, Cl. 106—52.

Hopkins, Stephen, to Texaco Inc. Apparatus and technique for surface ignition test. 3,030,799, 4–24–62, Cl. 73—35.

Hopkins, Thomas R., and W. C. Francis, to Spencer Chemical Co. Process of separating lactams. 3,016,287, 1–9–62, Cl. 23—166.

Hopkins, Thomas R., M. D. Osborn, and W. C. Francis, to Spencer Chemical Co. Production of lactams by the Beckmann rearrangement using urea bisulfate as catalyst. 3,016,374, 1–9–62, Cl. 260—239.3.

Hopkins, Thomas R., and J. W. Steele, to Spencer Chemical Co. Process of producing epsilon-caprolactam. 3,016,375, 1–9–62, Cl. 260—239.3.

Hopkins, Thomas R., and W. C. Francis, to Spencer Chemical Co. Preparation of cyanuric acid. 3,065,233, 11–20–62, Cl. 260—248.

Hopkins, William C. N. Sealing and coupling structures. 3,023,995, 3–6–62, Cl. 251—5.

Hopkins, William C. N. Mufflers. 3,043,393, 7–10–62, Cl. 181—57.

Hopkinson, Harold H., M. D. Irwin, and V. R. Kessler, to Carrier Corp. Self-contained air conditioning units. 3,020,820, 2–13–62, Cl. 98—40.
Hopkinson, Harold H., M. D. Irwin, and V. R. Kessler, to Carrier Corp. Self-contained air conditioning units. 3,020,822, 2–13–62, Cl. 98—121.
Hopkinson, Mark L., to Modernair Corp. Pneumatic shuttle actuating means. Re. 25,132, 3–6–62, Cl. 60—57.
Hopner, Emil, and M. C. Andrews, to International Business Machines Corp. Consonant response in narrow band transmission. 3,069,506, 12–18–62, Cl. 179—15.55.
Hopp, Harold P., and R. Bohm, said Bohm assor. to said Hopp. Means and method for forming non-planar articles 3,060,992, 10–30–62, Cl. 153—2.
Hopp, Philip, to The Hopp Press, Inc. Display device. 3,015,-897, 1–9–62, Cl. 40—11.
Hopp, Philip, and E. Mallman, to The Hopp Press, Inc. Card holder. 3,029,537, 4–17–62, Cl. 40—17.
Hopp Press, Inc., The: *See*—
Ensign, Robert H., Cardozo, Woods, and Immermann. 3,015,899.
Hopp, Philip. 3,015,897.
Hopp, Philip, and Mallman. 3,029,537.
Immermann, Milton. 3,021,186.
Hoppe, Alfred, H. Langner, H. Westerhoff, H. Wolke, and G. Hauptstein, to Edelmann Gesellschaft m.b.H. Process of separating wax from wax and oil-containing materials. 3,019,179, 1–30–62, Cl. 208—33.
Hoppe, Hans, and K. Zaehler, to Krone Kommanditgesellschaft. Centrifugal speed governor acting as brake control. 3,061,052, 10–30–62, Cl. 188—186.
Hoppe, Lewis T., and J. V. Makowski, to Ford Motor Co. Stowable jump seat. 3,059,964, 10–23–62, Cl. 297—13.
Hoppe, Manfred, to Inventa A.G. fuer Forschung und Patentverwertung. Process for the production of synthetic resins. 3,067,171, 12–4–62, Cl. 260—47.
Hoppe, Peter: *See*—
Weinbrenner, Erwin, Hoppe, and Breer. 3,031,271.
Weinbrenner, Erwin, Hoppe, and Breer. 3,063,813.
Weinbrenner, Erwin, Tischbein, Hoppe, and Brochhagen. 3,050,432.
Hoppe, Peter, H.-W. Paffrath, E. Weinbrenner, and K. Breer, ½ to Farbenfabriken Bayer Aktiengesellschaft, and ½ to Mobay Chemical Co. Method of centrifugally molding cellular plastics. 3,052,927, 9–11–62, Cl. 18—59.
Hoppe, William, and L. W. Schoppee, to Package Machinery Co. Sharpening of endless knife bands. 3,044,226, 7–17–62, Cl. 51—250.
Hoppeler, Walter: *See*—
Witschi, Eduard, and Hoppeler. 3,070,139.
Hopper, Fred H., to United Aircraft Corp. Shipping container. 3,044,607, 7–17–62, Cl. 206—46.
Hopper, James L.: *See*—
Bailey, John M., Engelking, Hopper, and Jero. 3,022,232.
Hopper, Philip S., to United Aircraft Corp. Turbo rocket fuel control system. 3,030,771, 4–24–62, Cl. 60—35.6.
Hopper, Philip S., to United Aircraft Corp. Turbofan afterburner fuel control improvement. 3,054,254, 9–18–62, Cl. 60—35.6.
Hopper, Richard, Jr.: *See*—
Sanders, Walter E., and Hopper. 3,053,435.
Hopper, Samuel H., to Economics Laboratory, Inc. Food preserving process. 3,050,405, 8–21–62, Cl. 99—222.
Hoppin, George S., III, to General Electric Co. Cobalt base brazing alloy. 3,028,235, 4–3–62, Cl. 75—171.
Hoppin, George S., III, and M. A. Levinstein, to General Electric Co. Elevated temperature, nickel-base brazing alloys. 3,024,109, 3–6–62, Cl. 75—170.
Hoppmann, Kurt H.: *See*—
Reddle, Victor L., Hoppmann, and Staples. 3,040,622.
Hoppmann, Otto: *See*—
Habermaas, Otto H., and Hoppmann. 3,020,107.
Hoppner, Ernst: *See*—
Froede, Walter G., Hoppner, and Paschke. 3,042,009.
Hopson, Marvin H., and R. L. Hammond. Folding and retractable sign. 3,029,713, 4–17–62, Cl. 94—1.5.
Hopt, Karl, G.m.b.H.: *See*—
Hopt, Rudolf, Falk, and Haring. 3,067,373.
Hopt, Rudolf, L. Falk, and A. Haring, to Karl Hopt, G.m.b.H. Power-unit load unit assembly. 3,067,373, 12–4–62, Cl. 320—2.
Horak, Heinz, to Textil-Apparatefabrik A.G. Loom equipment for weaving in symbol sequences. 3,026,913, 3–27–62, Cl. 139—319.
Horan, John J. Elastic lamps, principles, constructions, mountings and methods. 3,020,427, 2–6–62, Cl. 313—318.
Horan, John J. "Pancake" meters. 3,041,536, 6–26–62, Cl. 324—151.
Hörandner, Fritz, to O. H. Lundqvist. Collapsible shelving structure or the like. 3,056,508, 10–2–62, Cl. 211—148.
Horberg Grinding Industries, Inc.: *See*—
Horberg, William. 3,035,788.
Horberg, William, to Horberg Grinding Industries, Inc. Tape reel clamp. 3,035,788, 5–22–62, Cl. 242—68.3.
Horclois, Raymond J.: *See*—
Jacob, Robert M., and Horclois. 3,055,890.
Hord, Alsie O., and J. G. Royal, to Union Carbide Corp. Mold liner. 3,023,468, 3–6–62, Cl. 22—116.
Hordern, Mason & Edwards Ltd.: *See*—
Davies, Kenneth L. 3,061,078.
Horecky, Stanley V., to General Electric Co. Clothes washing machine. 3,043,125, 7–10–62, Cl. 68—12.
Horejs, Edward R., and H. P. Fallot, to The F. C. Russell Co. Thermally insulated paneled wall structure. 3,055,468, 9–25–62, Cl. 189—75.
Horel, Alois and J. Tensioning device for wires or cables. 3,035,813, 5–22–62, Cl. 254—29.
Horel, Jindrich: *See*—
Horel, Alois and J. 3,035,813.
Horey, Gerald M.: *See*—
Ferrin, Bernard, and Horey. 3,053,258.
Horgan, George D., to American Machine & Foundry Co. Wrapping or packaging machines. 3,058,275, 10–16–62, Cl. 53—124.
Horgan, John J., to United Aircraft Corp. Variable flap plug type nozzle. 3,049,875, 82–21–62, Cl. 60—35.6.
Horgan, John J., to United Aircraft Corp. Two dimensional floating blow-in-door and flap ejector. 3,057,150, 10–9–62, Cl. 60—35.6.
Horgen, Helge, to Societe d'Etudes et de Participations Eau, Gaz, Electricite Energie S.A. Control means for free-piston or semi-free piston engines. 3,020,706, 2–13–62, Cl. 60—13.
Horgen, Helge, to Societe d'Etudes et de Participations Eau Gaz, Electricite, Energie S.A. Installations comprising at least one free piston gas-generator and a machine driven by the power gas produced by said gas-generator. 3,038,-290, 6–12–62, Cl. 60—13.
Horgen, Helge, to Societe d'Etudes et de Participations Eau, Gaz, Electricite, Energie S.A. Power plants including at least one free piston auto-generator and at least one gas turbine fed with power gas from said generator. 3,046,-727, 7–31–62, Cl. 60—13.
Horger, Oscar J., and T. C. Keller, to The Timken Roller Bearing Co. Railway journal box stop means. 3,061,385, 10–30–62, Cl. 308—180.
Horger, Ralph E., to The Timken Roller Bearing Co. Seal assembly. 3,029,082, 4–10–62, Cl. 277—136.
Hori, Kazu K., T., and M. Exploding shotgun projectile. 3,062,144, 11–6–62, Cl. 102—38.
Hori, Makoto: *See*—
Hori, Katsu K., T., and M. 3,062,144.
Hori, Masaki. Dump vehicle. 3,066,984, 12–4–62, Cl. 298—11.
Hori, Sanji. Moving needle type hand operated knitting machine. 3,019,624, 2–6–62, Cl. 66—60.
Hori, Tow: *See*—
Hori, Katsu K., T., and M. 3,062,144.
Horie, Harry T., and T. U. Tabios. Sterilizer for barbers' implements. 3,019,494, 2–6–62, Cl. 21—87.
Horii, Taro, and K. Maejima. Manufacturing process for electrolytic nickel. 3,028,223, 4–3–62, Cl. 23—224.
Horikoshi, Tatsugoro. Cigarette lighter. 3,065,616, 11–27–62, Cl. 67—7.1.
Horimura, Isao, to Kofuku Sangyo Kabushiki Kaisha. Automatic reversing device for continuously operating a tape-recorder. 3,026,057, 3–20–62, Cl. 242—55.12.
Horinek, Robert L. Rodent trap. 3,064,386, 11–20–62, Cl. 43—65.
Höringklee, Walter: *See*—
Bemmann, Rudolf, Höringklee, and Büchner. 3,036,882.
Höringklee, Walter, to Leuna-Werke "Walter Ulbricht," VEB. Process for removing phenol from a phenol-containing oil. 3,069,354, 12–18–62, Cl. 208—263.
Horitz, Gerald J.: *See*—
Morton, Charles R., Horitz, and Nicholas. 3,023,094.
Horizons Inc.: *See*—
Hirakis, Emanuel C. 3,057,048.
Sprague, Robert H. 3,046,209.
Wainer, Eugene. 3,017,285.
Wainer, Eugene. 3,042,515–19.
Wainer, Eugene. 3,046,125.
Wainer, Eugene. 3,056,673.
Wainer, Eugene, and Cunningham. 3,023,115.
Horkay, Ferenc: *See*—
Csonka, Lajos, Horkay, Szánto, Szerecz, and Gönczy. 3,042,539.
Horlacher, Herman, to The Cincinnati Milling Machine Co. Reciprocating pump. 3,016,016, 1–9–62, Cl. 103—48.
Horlacher, Herman, to The Cincinnati Milling Machine Co. Control mechanism for machine tool table feed. 3,060,690, 10–30–62, Cl. 60—53.
Horley, Gary L.: *See*—
Szemplak, Jerome C., Ekstrom, Von Uffel, Horley, and Wood. 3,051,965.
Horman, John H., to Allied Control Co., Inc. Electromagnetic switch. 3,040,145, 6–19–62, Cl. 200—98.
Horman, John H., to Allied Control Co., Inc. Electromagnetic switch. 3,059,076, 10–16–62, Cl. 200—98.
Hormann, Theodoor H., to North American Philips Co., In Pulse amplifier utilizing two magnetic cores connected in series. 3,015,742 1–2–62, Cl. 307—88.5.
Hormel, Geo. A., & Co.: *See*—
Macy, Christian D., and Ludvigson. 3,046,597.
Hormuth, Frank J.: *See*—
Doren, Mark H., and Hormuth. 3,058,554.
Horn, Abraham D.: *See*—
Lobel, Martin A. 3,041,734.
Horn, August: *See*—
Horn, August. 3,070,690.
Horn, August, to A. Horn. Device for attaching lamp shades to electric sockets. 3,070,690, 12–25–62, Cl. 240—131.
Horn, Christian F.: *See*—
Young, Donald M., and Horn. 3,044,995.
Young, Donald M., Horn, and Hostettler. 3,035,024.

Horn, Christian F., to Union Carbide Corp. Sulfone-modified polyethylene terephthalate. 3,032,534, 5–1–62, Cl. 260—75.

Horn, Christian F., to Union Carbide Corp. Sulfone-modified polyethylene terephthalate. 3,032,625, 5–1–62, Cl. 260—75.

Horn, Christian F., to Union Carbide Corp. Sulfone-modified polyethylene terephthalate. 3,036,995, 5–29–62, Cl. 260—75.

Horn, Christian F., to Union Carbide Corp. Cuprous complexes. 3,042,695, 7–3–62, Cl. 260—438.

Horn, Christian F., to Union Carbide Corp. Cuprous complexes. 3,051,736, 8–28–62, Cl. 260—438.

Horn, Dennis J.: *See*—
Dickens, Jerry C. 3,028,978.

Horn, Edward H.: *See*—
Williamson, Hilding V., and Horn. 3,052,304.

Horn, Elmar M.: *See*—
Lang, Konrad, Bürger, Horn, and Nützel. 3,061,627.

Horn, Frederick L., to United States of America, Atomic Energy Commission. Protactinium extraction. 3,046,088, 7–24–62, Cl. 23—14.5.

Horn, Harvey S.: *See*—
Belli, Albert J., and Horn. 3,048,506.

Horn, Harvey S., to Celanese Corp. of America. Production of weather-fire film. 3,052,917, 9–11–62, Cl. 18—15.

Horn, John D., and D. R. Rem, to Union Carbide Corp. Blending apparatus for free-flowing granular materials. 3,029,986, 4–17–62, Cl. 222—478.

Horn, Lawrence W.: *See*—
Di Federico, Nick, and Horn. 3,040,697.

Horn, Richard W.: *See*—
Mylting, Lauritz E., Spreter, and Horn. 3,038,482.

Horn, Robert E.: *See*—
Honnell, Pierre M., and Horn. 3,038,660.

Horn, Sheldon H., to Western Electric Co., Inc. Method of making electrical coils. 3,060,073, 10–23–62, Cl. 156—171.

Horn, Thurman W. Door actuated spray device. 3,033,471, 5–8–62, Cl. 239—274.

Hornaday, James R., Jr.: *See*—
Holzwarth, James C., Hornaday, and Vigor. 3,019,516.

Hornaday, James R., Jr., C. W. Vigor, C. J. Tobin, and J. C. Holzwarth, to General Motors Corp. Method of manufacture. 3,019,513, 2–6–62, Cl. 29—157.3.

Hornauer, Gunter W. R., and H. G. G. Denzin, to Hamann-Rechenmaschinen G.m.b.H. Calculating machines. 3,053,-446, 9–4–62, Cl. 235—63.

Hornbaker, Edwin D., to Ethyl Corp. Stabilization of vinyl chloride. 3,019,270, 1–30–62, Cl. 260—652.5.

Hornbeck, Clarence J.: *See*—
Snow, Walter A., and Hornbeck. 3,059,901.

Hornbostel, Lloyd, to Beloit Iron Works. Drive assembly for metal working mill. 3,016,772, 1–16–62, Cl. 80—36.

Hornbostel, Lloyd, to Beloit Iron Works. Fluid cushioned coating method and apparatus. 3,019,130, 1–30–62, Cl. 117—111.

Hornbostel, Lloyd, to Beloit Iron Works. Crowned roll. 3,019,511, 2–6–62, Cl. 29—130.

Hornbostel, Lloyd, to Beloit Iron Works. Rectifier roll support. 3,026,934, 3–27–62, Cl. 162—342.

Hornbostel, Lloyd, to Beloit Iron Works. Reverse bar coater. 3,029,779, 4–17–62, Cl. 118—104.

Hornbostel, Lloyd, to Beloit Iron Works. Suction box arrangement. 3,029,871, 4–17–62, Cl. 162—319.

Hornbostel, Lloyd, to Beloit Iron Works. Sight feed device. 3,053,343, 9–11–62, Cl. 184—96.

Hornbostel, Lloyd, to Beloit Iron Works. Cooled clutch. 3,062,347, 11–6–62, Cl. 192—113.

Hornfeldt, Karl F.: *See*—
Rust, Kurt K. G., Gumboldt, Horndler, Sommer, and Heitzer. 3,058,970.

Horne, Campbell C.: *See*—
Turner, Philip G., and Horne. 3,045,328.

Horne, Campbell C., and G. R. Stuart, to The International Nickel Co., Inc. Production of metal articles with holes in them. 3,061,481, 10–30–62, Cl. 148—4.

Horne, Donald S., R. Ashton, and L. L. Kepkay, to Massey-Ferguson Ltd. Drive assembly for self-propelled combine. 3,049,026, 8–14–62, Cl. 77—65.

Horne, John C., J. C. Davis, and J. W. Baker, to United States Borax & Chemical Corp. Swivel connecting means for conveyor units. 3,031,214, 4–24–62, Cl. 285—274.

Horne, Russel K. Adjustable slips and other garments and method of making them. 3,060,446, 10–30–62, Cl. 2—73.

Horne, Russel K., and D. Griesemer; said Griesemer assor. to said Horne. Apparatus for automatically winding and/or unwinding web material under uniform tension. 3,033,140, 5–8–62, Cl. 112—203.

Horne, Samuel E., Jr.: *See*—
Spaulding, David C., and Horne. 3,032,538.

Horner, Albert A. Radiant heating unit including a laminated radiant heating panel. 3,060,300, 10–23–62, Cl. 219—34.

Horner, Ben J. Support for fishing lures or the like. 3,053,-006, 9–11–62, Cl. 43—57.5.

Horner, Clifford E., D. R. Quinn, and C. E. Thayer, to Westinghouse Electric Corp. Method of making an apertured member. 3,046,202, 7–24–62, Cl. 204—11.

Horner Flooring Co.: *See*—
Hundley, Norvelle G. 3,026,578.

Horner, Frank W., Jr.: *See*—
Perlman, Raymond, and Horner. 3,040,438.

Horner, Frank W., Jr., to General American Transportation Corp. Sealing mechanisms for storage tanks. 3,043,468, 7–10–62, Cl. 220—26.

Horner, Herbert F., H. E. Kroll, and D. O. Benson, to Toro Mfg. Corp. Rotary power mower. 3,049,853, 8–21–62, Cl. 56—25.4.

Horner, John W., to Thompson Ramo Wooldridge Inc. Hot gas servo system. 3,030,940, 4–24–62, Cl. 123—1.

Horner, John W., to Thompson Ramo Wooldridge Inc. Tank. 3,043,465, 7–10–62, Cl. 220—5.

Horner, John W., to Thompson Ramo Wooldridge Inc. Impulse rocket for attitude control. 3,048,969, 8–14–62, Cl. 60—35.6.

Horner, John W., to Thompson Ramo Wooldridge Inc. Rocket engine. 3,059,424, 10–23–62, Cl. 60—35.6.

Horney, David C.: *See*—
Hess, Christian H., and Horney. 3,048,228.

Horney, David C., to Deere & Co. Adjustable link. 3,053,-552, 9–11–62, Cl. 280—461.

Hornfeck, Anthony J., H. H. Koppel, and J. R. Louis, to Bailey Meter Co. Positioning motor control system. 3,015,768, 1–2–62, Cl. 318—28.

Hornfeck, Anthony J., and H. H. Koppel, to Bailey Meter Co. Temperature control of a process having high heat storage capacity. 3,028,099, 4–3–62, Cl. 236—15.

Hornick, Frank, and J. Hatler. Method of bonding an outer coating of one metal to a base surface of aluminum or the like. 3,031,330, 4–24–62, Cl. 117—46.

Hornickel, Robert R., and H. W. Austin, to Mine Safety Appliances Co. Shock absorbing helmet. 3,054,111, 9–18–62, Cl. 2—3.

Hornig, Lothar: *See*—
Riemenschneider, Wilhelm, Hornig, Weber, and Dialer. 3,057,915.

Hornig, Victor, and J. E. Clarke, to Shell Moulding Foundry Ltd. Apparatus for making shell moulds or cores. 3,040,-394, 6–26–62, Cl. 22—36.

Hornik, Frank J., to Lyon Inc. Self-rimming sinks and securing means. 3,056,971, 10–9–62, Cl. 4—187.

Horning, Bernard A. Undercutting tool. 3,067,637, 12–11–62, Cl. 77—58.

Horning, James W. Take-down clothes line pulley reel. 3,062,477, 11–6–62, Cl. 242—100.1.

Horning, Oliver, to Rubber Products, Inc. Spring winding mechanism for clocks. 3,031,837, 5–1–62, Cl. 58—41.

Horning, Oliver P., ½ to M. R. Kraus. Battery operated clock winding mechanism. 3,050,931, 8–28–62, Cl. 58—41.

Horning, Robert M., A. I. Kaznoff, and J. F. Heil, to Stauffer Chemical Co. Purification of metal chlorides. 3,066,010, 11–27–62, Cl. 23—87.

Horning, Wendell A., to Thompson Ramo Wooldridge Inc. Coating method and apparatus. 3,036,964, 5–29–62, Cl. 204—154.2.

Hornsby, Guyton E. Aircraft landing gear. 3,057,586, 10–9–62, Cl. 244—104.

Hornschuch, Hanns: *See*—
Mock, Wallace A., and Hornschuch. 3,062,554.

Hornschuch, Hanns, to Ingersoll-Rand Co. Driving connection. 3,038,411, 6–12–62, Cl. 103—87.

Hornschuch, Hanns, and J. R. Webb, to Ingersoll-Rand Co. Motor operative by action of a fluid expansible membrane. 3,039,442, 6–19–62, Cl. 121—48.

Hornstein, Gerald: *See*—
Schlessel, Joseph H., and Hornstein. 3,041,506.

Hornstein, Victor, M. Schneider, and E. Küsel, to Jagenberg-Werke Akt.-Ges. Machine for rewinding paper webs or similar materials. 3,064,915, 11–20–62, Cl. 242—66.

Hornstock, Joseph S. Pouring spout. 3,015,418, 1–2–62, Cl. 222—108.

Hornung, Claytus: *See*—
Harris, Gerald R. 3,021,654.

Hornung, David: *See*—
Snyder, Asa E., Hornung, and Liu. 3,066,324.

Hornung, Stephen A., to Otis Elevator Co. Elevator control system. 3,022,865, 2–27–62, Cl. 187—29.

Hornyak, William F., to Hamner Electronics Co., Inc. Stereophonic sound. 3,046,337, 7–24–62, Cl. 179—1.

Horotiz, Marcus, to Metalastik Ltd. Torque transmission couplings. 3,020,738, 2–13–62, Cl. 64—19.

Horowitz, Carl: *See*—
Mendelsohn, Meyer, and Horowitz. 3,050,418.

Horowitz, Carl, and M. Mendelsohn, to Yardney International Corp. Separator for electric batteries. 3,022,367, 2–20–62, Cl. 136—146.

Horowitz, Carl, and M. Mendelsohn, to Yardney International Corp. Antiseptic cleaner. 3,050,467, 8–21–62, Cl. 252—107.

Horowitz, Harry, and A. Schneiderman. Tricycles having synthetic resinous portions. 3,039,791, 6–19–62, Cl. 280—259.

Horowitz, Irving, to Blonder-Tongue Electronics. Variable-gain transistor circuit. 3,023,369, 2–27–62, Cl. 330—24.

Horowitz, Irving, to Blonder Tongue Electronics. Transistor amplifier system. 3,063,020, 11–6–62, Cl. 330—12.

Horowitz, Isadore, to Universal Mfg. Co., Inc. Child's pedal vehicle. 3,017,198, 1–16–62, Cl. 280—202.

Horowitz, Isadore, to Universal Mfg. Co., Inc. Self-propelled child's merry-go-round. 3,043,590, 7–10–62, Cl. 272—33.

Horrell, Maurice W., to The Bendix Corp. Variable-exponent computers. 3,056,550, 10–2–62, Cl. 235—164.

Horrigan, John, to Sylvania Electric Products Inc. Tunable magnetrons. 3,047,770, 7–31–62, Cl. 315—39.61.
Horrigan, Philip K.: *See*—
Hamren, Victor E. 3,040,426.
Horrocks, Raymond G., C. D. Miller, and T. J. Brenner, to PLM Products, Inc. Apparatus for supporting and spacing aerial cables. 3,021,382, 2–13–62, Cl. 174—174.
Horrocks, Walter E. Sun shade adjusting contrivances. 3,029,103, 4–10–62, Cl. 296—97.
Horrom, Bruce W., to Abbott Laboratories. N-cycloalkyl carbamates. 3,037,045, 5–29–62, Cl. 260—468.
Horrom, Bruce W., to Abbott Laboratories. 4-amino-3,5-dichloro-benzamides. 3,066,167, 11–27–62, Cl. 260—558.
Horscroft, Richard G., to Western Electric Co., Inc. Coil handling devices. 3,033,388, 5–8–62, Cl. 214—1.
Horscroft, William F., Jr.: *See*—
Hargens, Charles W., III, Irish, and Horscroft. 3,027,086.
Horseling, Jan: *See*—
Frouws, Simon M., and Horseling. 3,054,920.
Horsfall Engineering Co. Ltd.: *See*—
Horsfall, Harold. 3,049,066.
Horsfall, Harold, to Horsfall Engineering Co. Ltd. Photocopying machines. 3,040,066, 8–14–62, Cl. 95—77.5.
Horsfall, Robert B., Jr.: *See*—
Miller, Victor A., and Horsfall. 3,018,378.
Horsfall, Timothy E. S., to Woodall-Duckman Construction Co. Ltd. Oscillatory circuit interlock of horizontal coke oven batteries. 3,017,622, 1–16–62, Cl. 340—282.
Horsford, Eric J., to Baker Perkins Inc. Conveyor devices. 3,051,289, 8–28–62, Cl. 198—20.
Horsley, David S. Video signal conversion method and apparatus. 3,041,390, 6–26–62, Cl. 178—5.2.
Horsley, Lee H.: *See*—
Britton, Edgar C., Horsley, and Kellom. 3,033,864.
Horsley, William D., to C. A. Parsons & Co. Ltd. Dynamo-electric machinery. 3,049,634, 8–14–62, Cl. 310—64.
Horste, Joseph E. Connector. 3,056,309, 10–2–62, Cl. 74—258.
Horsten, Henricus B. J., to Onderzoekingsinstituut Research, N.V. Process for preparing solutions of polyethylene terephthalate with trichloromethane. 3,061,573, 10–30–62, Cl. 260—33.8.
Horster, Paul: *See*—
Schippers, Heinz, Horster, and Weber. 3,064,910.
Horsting, Louise H.: *See*—
Horsting, William F. 3,060,658.
Horsting, William F., 60% to L. H. Horsting, 15% to E. S. Hampson, and 25% to W. F. Horsting. Wrapping. 3,060,658, 10–30–62, Cl. 53—120.
Horstman, Anton J., and L. E. Eberhardt, to The Bauer Bros. Co. Rapid cycle digester. 3,016,088, 1–9–62, Cl. 162—242.
Horstmann, Bevan G.: *See*—
Hamlyn, Peter M., Snelling, and Horstmann. 3,051,119.
Horstmann & Sherwen Ltd.: *See*—
Sherwen, Theo, and Taylor. 3,043,353.
Horswood, George E.: *See*—
Bell, Robert M., and Horswood. 3,063,281.
Horter Corp: *See*—
Good, Wayne W. 3,029,108.
Horton, Alfred A.: *See*—
Sweger, Russell P., Horton, and Young. 3,050,257.
Horton, Billy M. Negative feedback fluid amplifier. 3,024,805, 3–13–62, Cl. 137—597.
Horton, Charles A. Hand washing and drying device. 3,060,472, 10–30–62, Cl. 15—4.
Horton, Charles E.: *See*—
Lewis, Amos L., and Horton. 3,032,236.
Horton, Charles E., and A. L. Lewis. Composite container. 3,032,232, 5–1–62, Cl. 220—23.
Horton, Charles E., and A. L. Lewis. Sterile gauze dispenser with cutting means thereon. 3,044,338, 7–17–62, Cl. 83—649.
Horton, Claude W.: *See*—
Watson, Robert B., and Horton. 3,025,517.
Horton, Claude W., to Texas Instruments Inc. Processing seismic traces and apparatus therefor. 3,056,945, 10–2–62, Cl. 340—15.
Horton, Donelson B.: *See*—
Angele, Wilhelm, and Horton. 3,069,123.
Horton, Earl A.: *See*—
Carliss, Oswald S., and Horton. 3,032,221.
Horton, Earl A., to The Yale and Towne Mfg. Co. Coil upender. 3,016,158, 1–9–62, Cl. 214—652.
Horton, Erwin C.: *See*—
Deibel, Raymond A., Horton, and Riester. 3,064,752.
Oishei, John R., and Horton. 3,066,543.
Horton, Erwin C., to Trico Products Corp. Windshield cleaning system. 3,016,557, 1–16–62, Cl. 15—250.12.
Horton, Erwin C., to Trico Products Corp. Windshield cleaning system. 3,041,652, 7–3–62, Cl. 15—250.02.
Horton, Erwin C., to Trico Products Corp. Door locking system for motor vehicles. 3,070,183, 12–25–62, Cl. 180—82.
Horton, George B., and T. E. Lohr, to General Motors Corp. Seat adjuster. 3,022,975, 2–27–62, Cl. 248—420.
Horton, James B., and S. C. Frye, to Bethlehem Steel Co. Coated article and method of making same. 3,036,934, 5–29–62, Cl. 117—132.
Horton, John T., and I. V. La Fave, to Chicago Bridge & Iron Co. Anchor system. 3,025,993, 3–20–62, Cl. 220—15.
Horton, Jonathan E.: *See*—
Horton, Wilford E., and J. E. 3,062,546.
Horton, Joseph R. Mathematical instruments. 3,021,058, 2–13–62, Cl. 235—61.
Horton Mfg. Co., Inc.: *See*—
Schilling, Hugh K. 3,036,667.
Horton, Richard C., to J. P. Stevens Co., Inc. Method of producing multicolored glass fiber fabrics. 3,060,549, 10–30–62, Cl. 28—74.
Horton, Richard E., to Precision Metal Workers. Coin controlled dispensing machine. 3,023,873, 3–6–62, Cl. 194—2.
Horton, Richard H., to United States of America, Navy. Flange and wall structure. 3,044,657, 7–17–62, Cl. 220—80.
Horton, Robert A., to Precision Metalsmiths, Inc. Method of form removal from precision casting shells. 3,018,528, 1–30–62, Cl. 22—195.
Horton, Robert A., R. L. Ashbrook, and R. C. Feagin, to Howe Sound Co. Making fine grained castings. 3,019,497, 2–6–62, Cl. 22—196.
Horton, Robert L.: *See*—
Song, John, Horton, MacGregor, and Markley. 3,024,243.
Horton, Rodney L., to International Business Machines Corp. Pulse divider using synchronized monostable multi-triggering timing circuit in synchronized blocking oscillator. 3,040,185, 6–19–62, Cl. 307—88.5.
Horton, Rodney L., to International Business Machines Corp. Bistable multiar. 3,048,715, 8–7–62, Cl. 307—88.5.
Horton, Wilford E. and J. E. Bowling ball release guide. 3,062,546, 11–6–62, Cl. 273—54.
Horton, William F., and R. G. Engman, to Lear, Inc. Trim control system for autopilots. 3,018,071, 1–23–62, Cl. 244—77.
Horton, William G. Indicators and indicating systems. 3,044,436, 7–17–62, Cl. 116—135.
Horton, William H.: *See*—
Ernisse, Paul J., and Horton. 3,033,092.
Horton, William S.: *See*—
Lewis, Albert B. 3,030,717.
Horusth, Zoltán: *See*—
Lipcsey, Miklós, Biczok, and Horusth. 3,070,528.
Horvath, Anthony A.: *See*—
Taylor, Bert L. 3,030,064.
Horvath, Charles, and A. F. Lukasik, to United States Steel Corp. Apparatus for determining the ratio between two D.C. pressure sources. 3,029,022, 4–10–62, Cl. 235—103.5.
Horvath, Nicholas: *See*—
Hayward, Leroy S., Kingsley, and Horvath. 3,056,435.
Horvath, Roland J.: *See*—
Lindemann, Robert F., and Horvath. 3,029,290.
Horvath, Rudolph: *See*—
Weymouth, Jack C. 3,038,971.
Weymouth, Jack C. 3,053,533.
Horvay, Julius B.: *See*—
Marshall, Wilfred J., and Horvay.
Horvereid, Wells J., to Precision Associates, Inc. Sealing ring. 3,052,475, 9–4–62, Cl. 277—209.
Horvitz, David: *See*—
Roberts, Irving M., and Horvitz. 3,069,412.
Horvitz, David, to National Distillers and Chemical Corp. Production of stannous halide. 3,053,621, 9–11–62, Cl. 23—98.
Horvitz, Howard J., to Pre-Mix Corp. Colored mortar display. 3 021.613, 2–20–62, Cl. 35—16.
Horwedel, Lowell C.: *See*—
Heath, Arthur N., and Horwedel. 3,051,586.
Horwitt, Laurence G., to Casco Products Corp. Electric cigar lighter. 3,023,312, 2–27–62, Cl. 219—32.
Horwitt, Laurence G., to Casco Products Corp. Automobile antenna with toroid coil and magnetic core. 3,066,292, 11–27–62, Cl. 343—717.
Horwitz, Henry L., G. L. Hasser, J. E. Cox, and S. J. Westhead, to International Telephone and Telegraph Corp. Line-finder and control circuits. 3,037,084, 5–29–62, Cl. 179—18.
Horwitz, Lester: *See*—
Roth, Curt B., Horwitz, and Levine. 3,062,815.
Horwitz, Louis B., and E. S. Messer, to Continental Oil Co. Fluid plotting. 3,038,656, 6–12–62, Cl. 235—61.6.
Hosaka, Tsutomu: *See*—
Kimura, Masahiko, and Hosaka. 3,057,351.
Hosbein, Hugh W., to Symington-Wayne Corp. Loading dock. 3,018,495, 1–30–62, Cl. 14—71.
Hosbein, Hugh W., to Symington-Wayne Corp. Mobile ramp. 3,018,496, 1–30–62, Cl. 14—71.
Hosbein, John M., and R. M. Barre, to M. H. Detrick Co. Roof or wall tile. 3,056,362, 10–2–62, Cl. 158—99.
Hosbein, Louis H., to M. H. Detrick Co. Refractory lining. 3,016,655, 1–16–62, Cl. 50—418.
Hosbein, Louis H., to M. H. Detrick Co. Composite refractory wall. 3,023,545, 3–6–62, Cl. 50—331.
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Hose Accessories Co.: *See*—
Albrecht, David E. 3,047,043.
Hosek, William S., to Thiokol Chemical Corp. Butterfly supported frangible disc valve. 3,038,485, 6–12–62, Cl. 137—68.

Hosemann, Rolf: *See*—
Hess, Bernhard, Hosemann, and Warrikhoff. 3,067,331.
Hosemann, Rolf, and A. Weber, to Licentra Patent-Verwaltungs-G.m.b.H. X-ray refracting optical element. 3,032,-656, 5–1–62, Cl. 250—51.5.
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Hoshino, Kenzo. Apparatus for transporting a solid-liquid mixture by rotating pipe. 3,030,152, 4–17–62, Cl. 302—14.
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Hoshino, Yasushi. Packaging of a magnetic head assembly. 3,045,814, 7–24–62, Cl. 206—46.
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Hoshino, Yasushi, M. Namikawa, and S. Tochihara. Transferable coating magnetic film for producing magnetic recording sheets. 3,022,079, 2–20–62, Cl. 274—41.4.
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Cox, Alvon R., and Hosier. 3,055,054.
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Hosken, James C.: *See*—
Grant, Gardner L., and Hosken. 3,018,038.
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Hosking, William J. C., and A. E. Barr, to Electric & Musical Industries Ltd. Automatic control systems for vehicles. 3,039,554, 6–19–62, Cl. 180—77.
Hoskins, Ruth A. Portable sit bath. 3,039,117, 6–19–62, Cl. 4—6.
Hoskinson, Gordon H. Heater construction. 3,044,460, 7–17–62, Cl. 126—110.
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Hardy, William B., Forster, and Hosler. 3,049,509.
Hosli, Hansjakob, to Brevets Aero-Mecaniques S.A. Firing devices for rockets carried in clusters by a launching machine, and in particular an aircraft. 3,026,774, 3–27–62, Cl. 89—1.7.
Hosmer Machine and Lumber Co., Inc.: *See*—
Blanchard, Francis G. 3,070,318.
Hosokawa, Eiichi and M., T. Matsuyama, and T. Yokoyama. Pulverizer-separator. 3,037,712, 6–5–62, Cl. 241—56.
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Hossack, Alexander: *See*—
Morris, John N., and Hossack. 3,068,794.
Hossain, Shafi U., to Abitibi Power & Paper Co., Ltd. Recovery of base from waste liquor. 3,027,226, 3–27–62, Cl. 23—46.
Hosso, George A. Plastic bag sealer. 3,035,381, 5–22–62, Cl. 53—182.
Hostetler, Donald E.: *See*—
Baum, Melvin E., and Hostetler. 3,015,672.
Hostetler, Eldon, and L. A. Myers, to Chore-Time Equipment, Inc. Mechanical poultry feeder. 3,033,163, 5–8–62, Cl. 119—52.
Hostetler, Stanley F.: *See*—
Oldfield, Andrew H., and Hostetler. 3,020,684.
Hostetter, Robert J., to Stewart-Warner Corp. High pressure paint spray gun. 3,065,918, 11–27–62, Cl. 239—575.
Hostettler, Fritz: *See*—
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Cox, Eugene F., and Hostettler. 3,021,309–17.
Young, Donald M., Horn, and Hostettler. 3,035,024.
Young, Donald M., and Hostettler. 3,051,687.
Hostettler, Fritz, and E. F. Cox, to Union Carbide Corp. Method of reacting an active hydrogen containing compound with an isocyanate or isothiocyanate in contact with a polystannate catalyst. 3,061,557, 10–30–62, Cl. 260—2.5.
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Hayba, Franklin P., and Hotaling. 3,021,795.
Hotas, Leon G. Foot exercising machine. 3,020,046, 2–6–62, Cl. 272—57.
Hotas, Leon G. Spinal exercise devices. 3,036,830, 5–29–62, Cl. 272—57.
Hotchkiss-Brandt: *See*—
Francois, Marcel. 3,053,184.
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Jasse, Joseph R. 3,031,967.
Hotchkiss, Clifford, to Controls Co. of America. Control system. 3 059,693, 10–23–62, Cl. 158—125.
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Hull, Joseph A., and Hotchkiss. 3,044,068.
Hotelling, Eric B., M. B. Neuworth, and E. P. Previc, to Consolidation Coal Co. Production of 4,4'-methylene bis-(6-tert-butyl-O-cresol). 3,027,412, 3–27–62, Cl. 260—619.
Hotes, Erich: *See*—
Viol, Gunter, and Hotes. 3,040,403.
Hotham, Geoffrey A., to Optron Corp. Electronic displacement follower apparatus. 3,033,987, 5–8–62, Cl. 250—203.
Hotop, Werner: *See*—
Meese, Heinz G., Masjoshusmann, and Hotop. 3,027,835.
Meese, Heinz G., Masjoshusmann, and Hotop. 3,039,389.
Hotop, Werner, H.-G. Meese, E. Masjoshusmann, U. Bohle, and G. Ginzel, to Deutsche Edelstahlwerke Aktiengesellschaft. Printing cylinders. 3,039,390, 6–19–62, Cl. 101—378.
Hott, Ion V. K., to The Joyce-Cridland Co. Universal hinged rail frame contact lift. 3,035,662, 5–22–62, Cl. 187—8.75.
Hotta, Soichi. Metering dispenser controlling emission of liquids with insoluble gases for expellent. 3,040,936, 6–26–62, Cl. 222—207.
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Hotten, Bruce W., to California Research Corp. Amides of alkylenediamine polyalkylenecarboxylic acids. 3,024,277, 3–6–62, Cl. 260—534.
Hotten, Bruce W., to California Research Corp. High temperature greases. 3,065,177, 11–20–62, Cl. 252—49.6.
Hottle, Dwight E. Automobile door construction. 3,035,863, 5–22–62, Cl. 296—44.
Houben, Heinz A., to United States Borax & Chemical Corp. Tensioning means for belt conveyors. 3,027,993, 4–3–62, Cl. 198—208.
Houben, Jan A., J. G. J. van Meyl, and N. B. Speyer, to North American Philips Co., Inc. Methods and jigs for alloying an electrode to a semi-conductive body. 3,043,-722, 7–10–62, Cl. 117—212.
Houck, Gilbert R., to Hill Electronics, Inc. Mount for piezoelectric crystal. 3,054,915, 9–18–62, Cl. 310—9.1.
Houck, Robert C., D. A. Smith, and J. S. Yudelson, to Eastman Kodak Co. Photographic product having layer containing biaxoxy ether crosslinked ethyl acrylate-acrylic acid copolymer. 3,062,674, 11–6–62, Cl. 117—34.
Houck, Roy L. Machine for grooving road paving to receive expansion strips. 3,045,566, 7–24–62, Cl. 94—39.
Houck, Roy L. Machine for embedding dowels in road paving. 3,068,766, 12–18–62, Cl. 94—51.
Houdaille Industries, Inc.: *See*—
Butler, Gordon O., and Calvert. 3,043,454.
French, Alfred G., Jr. 3,034,288.
Gies, Paul E., and Rumsey. 3,018,854.
Mutolo, Peter J., and Boehm. 3,018,677.
Rumsey, Rollin D. 3,019,712.
Rumsey, Rollin D. 3,020,008.
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Rumsey, Rollin D., and Manning. 3,028,814.
Rumsey, Rollin D., and Schultz. 3,038,561.
Smeets, Gerard G. F. 3,049,807.
Thurstone, Granger B., and Behm. 3,063,706.
Houdek, Vladimir: *See*—
Svaty, Vladimir, Otta, and Houdek. 3,057,224.
Houdry, Eugene J., to Oxy-Catalyst, Inc. Catalytic exhaust purifier for engines operating on leaded gasoline. 3,024,-593, 3–13–62, Cl. 60—30.
Houdry, Eugene J., to Oxy-Catalyst, Inc. Catalytic muffler. 3,041,149, 6–26–62, Cl. 23—288.
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Houdry Process Corp.: *See*—
Erner, William E. 3,019,227.
Erner, William E. 3,029,240.
Hindin, Saul G., and Mills. 3,016,354.
Kirsch, Francis W. 3,016,344.
Mills, George A. 3,017,370.
Hougen, Everett D. Method and apparatus for sectioning automotive body panels. 3,051,279, 8–28–62, Cl. 189—36.
Hougen, Leif R., to Elektrokemisk A/S. Process for cleaning waste water such as sewage water. 3,035,992, 5–22–62, Cl. 204—149.
Hough, Dean R., to Washington Rubber Co. Vehicle tire construction and method of making same. 3,024,827, 3–13–62, Cl. 152—330.

Hough, Eldred W.: *See*—
Thompson, Gene D., Hough, and Lane. 3,070,545.
Hough, Frank G., R. M. Peterson, and W. H. Gilson, to The Hy-Dynamic Co. Earth handling apparatus. 3,047,170, 7–31–62, Cl. 214—131.
Hough, Frank G., Co., The: *See*—
Beyerstedt, Ralph L. 3,047,307.
Granryd, Thorvald G. 3,022,911.
Granryd, Thorvald G. 3,059,495.
Granryd, Thorvald G., and Mark. 3,065,870.
Kampert, Keith W. 3,055,719.
Kampert, Keith W. 3,065,556.
Kampert, Keith W., and Zimmerman, Re. 25,207.
Lowery, Donald G. 3,033,395.
Salna, Karl. 3,043,155.
Salna, Karl. 3,047,308.
Strader, Don S. 3,015,314.
Strader, Don S. 3,033,221.
Wilson, Harry R. 3,039,317.
Zimmerman, Richard E. 3,066,001.
Hough, Fred O., and D. R. Scott, to General Motors Corp. Apparatus for electroplating. 3,023,154, 2–27–62, Cl. 204—242.
Hough, Fred O., and D. R. Scott, to General Motors Corp. Electroplating method and apparatus. 3,065,153, 11–20–62, Cl. 204—26.
Hough, George V., R. H. R. Cronin, and R. J. Cox; said Hough and said Cronin assors. to The Plessey Co. Ltd. Civil defense training equipment. 3,035,772, 5–22–62, Cl. 235—184.
Hough, Lewis M., to Wix Corp. Batch type filter system and valve for use therewith. 3,045,827, 7–24–62, Cl. 210—110.
Hough, Lewis M., Jr.: *See*—
Humbert, Kingsley E., Jr., Young, and Hough. 3,045,928.
Humbert, Kingsley E., Jr., Young, and Hough. 3,054,507.
Hough Mfg. Corp.: *See*—
Johnson, Werner E., and Schmelzkopf. 3,056,193.
Stansbury, Benjamin H., Jr. 3,065,786.
Hough, Paul V. C., to United States of America, Atomic Energy Commission. Method and means for recognizing complex patterns. 3,069,654, 12–18–62, Cl. 340—146.3.
Hough, William V.: *See*—
Edwards, Lawrence J., and Hough. 3,031,259.
Hough, William V., to Callery Chemical Co. Certain alkali metal-pyridine-borane complexes and process. 3,024,240, 3–6–62, Cl. 260—290.
Houghtaling, John J., to Magic Fingers, Inc. Vibrator. 3,035,572, 5–22–62, Cl. 128—33.
Houghton, E. F., & Co.: *See*—
Colucci, Guido J., and Maxwell. 3,039,969.
Smith, Robert K., and Popoff. 3,041,280.
Houghton, Thomas F.: *See*—
Moore, Edwin B., and Houghton. 3,031,624.
Houghton, William D., to Radio Corp. of America. Tape recording system. 3,019,291, 1–30–62, Cl. 178—6.6.
Houilleres du Bassin du Nord et du Pas-de-Calais and Commissariat a l'Energie Atomique: *See*—
Delaisus, Marcel, Lefrancois, and Vaniscotte. 3,055,732.
Houk, Mack. Attachment for fishing lines. 3,057,109, 10–9–62, Cl. 43—44.85.
Houk, Richard D., to Consolidated Electronics Industries Corp. Screw and nut mechanism. 3,051,014, 8–28–62, Cl. 74—424.8.
Houk, Warren P., to The Chemstrand Corp. Chuck for twisting and cabling yarns. 3,028,720, 4–10–62, Cl. 57—25.
Houle, James A., to American Viscose Corp. Cigarette carton. 3,051,305, 8–28–62, Cl. 206—45.34.
Houle, Omer, to United States of America, Navy. Close-open and diverter valve. 3,054,422, 9–18–62, Cl. 137—609.
Houplain, Georges. Flush mounted lamp fixture. 3,028,137, 4–3–62, Cl. 248—343.
Hourdiaux, Jules. Motion picture apparatus. 3,063,611, 11–13–62, Cl. 226—114.
Hourigan, Vincent S.: *See*—
Laskin, Mervyn G., and Hourigan. 3,032,212.
Hours, Georges, 50% to Societe Industrielle de Liaisons Electriques. Magnetic switching device. 3,024,411, 3–6–62, Cl. 324—34.
House, Bryan E., and G. P. Mathews, to Rockwell-Standard Corp. Brake shoe for expanding shoe brakes. 3,053,347, 9–11–62, Cl. 188—78.
House, Bryan E., and J. C. Cumming, to Rockwell-Standard Corp. Automatic brake adjustment. 3,057,439, 10–9–62, Cl. 188—79.5.
House, Hugh L. Scaffold. 3,016,105, 1–9–62, Cl. 182—149.
House, James G., to The Dow Chemical Co. Fusible metallic core with woven fiber sleeve. 3,032,842, 5–8–62, Cl. 22—194.
House, James G., and R. W. Theobald, to The Dow Chemical Co. Core vents made from expanded thermoplastic resinous material. 3,037,252, 6–5–62, Cl. 22—171.
House, Ronald R.: *See*—
Jen, Yun, and House. 3,015,605.
Householder, Garrison: *See*—
Shearer, Walter V., and Householder. 3,042,563.
Householder, Glenn A.: *See*—
Hague, Wilmer W., and Householder. 3,043,271.
Houser, Abbott F.: *See*—
Anderson, Conroy D., Cramer, and Houser. 3,041,271.
Houser, Harold O.: *See*—
Winslow, James C., and Houser. 3,040,480.
Houser, Philip H.: *See*—
Bochan, John, and Houser. 3,048,026.
Houser, Philip H., to General Electric Co. Electro-pneumatic sequence control system. 3,019,380, 1–30–62, Cl. 318—486.
Houser, Philip H., to General Electric Co. Treating agent dispenser system for laundry machines. 3,021,702, 2–20–62, Cl. 68—207.
Houser, Philip H., to General Electric Co. Combined washing and centrifuging machine with vibration-isolating suspension system. 3,026,701, 3–27–62, Cl. 68—23.
Houser, Philip H., to General Electric Co. Water storage and re-use system for clothes washing machines. 3,029,838, 4–17–62, Cl. 137—571.
Houser, Philip H., to General Electric Co. Washing machine. 3,065,620, 11–27–62, Cl. 68—13.
Houser, Roy W., to Robertshaw-Fulton Controls Co. Control device. 3,046,375, 7–24–62, Cl. 200—138.
Houser, Roy W., and H. W. Rice, to Robertshaw-Fulton Controls Co. Thermostat control. 3,036,470, 5–29–62, Cl. 74—3.52.
Houser, Warner: *See*—
Stout, Theophilus P. R., and Houser. 3,035,294.
Houser, Warner, and T. P. R. Stout, to Parker Sweeper Co. Lawn sweeper. 3,039,124, 6–19–62, Cl. 15—79.
Houser, Willard R.: *See*—
Whaley, John C., and Houser. 3,035,224.
Housley, Edward, and A. W. Burford, to Climps Ltd. Packing cases or other containers. 3,064,848, 11–20–62, Cl. 217—69.
Housley, John R.: *See*—
Oxley, Peter, Bristow, Housley, Woolfe, and Wilmshurst. 3,028,386.
Housman, Bennett: *See*—
Cypser, Rudolph J., Harrington, Hopkins, Housman, Jeffrey, and Ross. 3,056,110.
Housman, Bennett, to International Business Machines Corp. Adder circuit. 3,017,100, 1–16–62, Cl. 235—175.
Housman, Bennett, R. C. Jeffrey, R. P. Mayer, and D. B. Thompson, to Research Corp. Signal storage system. 3,045,217, 7–17–62, Cl. 340—174.1.
Housman, Robert W., to Automatic Radio Mfg. Co., Inc. Bracket for portable radio. 3,035,168, 5–15–62, Cl. 250—14.
Housman, William A., to Western Industries, Inc. Endless snap clip. 3,058,518, 10–16–62, Cl. 160—380.
Houston, Alan C.: *See*—
Hossley, John C., Ellis, Hayward, and Houston. 3,030,426.
Houston Chemical Corp.: *See*—
Biritz, Laszlo F. 3,048,611.
Biritz, Laszlo F. 3,057,898.
Houston Co., The: *See*—
Pase, Hugh H. 3,055,405.
Houston Fearless Corp.: *See*—
Allen, Robert D. 3,022,086.
Houston Instrument Corp.: *See*—
Hardway, Edward V., Jr. 3,047,784.
Houston, John M., to General Electric Co. Field emission reflex klystron. 3,046,439, 7–24–62, Cl. 315—5.19.
Houston Oil Field Material Co., Inc.: *See*—
Bergey, Taylor G. 3,070,291.
Foreman, Arnal B., Jr. 3,056,453.
McWhorter, Cullen J. 3,039,544.
Houston, Reagan: *See*—
Kasbohm, Martin L., Baker, and Houston. 3,023,836.
Houston, Rex: *See*—
Reynolds, Horace H. 3,034,581.
Houtman, Thomas, Jr.: *See*—
Tousignant, William F., Walles, and Houtman. 3,030,339.
Houvener, Irving S., to The Dow Chemical Co. Extruding apparatus. 3,046,602, 7–31–62, Cl. 18—12.
Houze Glass Corp.: *See*—
Provance, Jason D. 3,044,888.
Hovanec, Carl G.: *See*—
Cook, James M., and Hovanec. 3,069,151.
Hovda, Robert E.: *See*—
Kerber, Stanley M., Randall, and Hovda. 3,025,395.
Hovda, Robert E., and R. W. Muhlestein, to North American Aviation, Inc. Radio frequency peak power detector. 3,037,167, 5–29–62, Cl. 324—95.
Hovda, Robert E., R. F. Goode, and E. R. Roehl, to North America Aviation, Inc. Impulse noise generator. 3,062,-955, 11–6–62, Cl. 250—20.
Hovde, Arne J., to General Motors Corp. Piston and connecting rod assembly. 3,056,638, 10–2–62, Cl. 309—6.
Hove, Albert S.: *See*—
Winfrey, James W., Knapp, and Hove. 3,064,829.
Hoveland, Julian C., to M. D. Muttart. Joint trowel. 3,056,153, 10–2–62, Cl. 15—237.
Hovemeyer, William E., M. Gutstein, and W. Begell. Interlinking flux electromagnetic gauge. 3,035,353, 5–22–62, Cl. 33—174.
Hoven, Wilhelm, to Garbe, Lahmeyer & Co. Aktiengesellschaft. Starter clutch. 3,057,212, 10–9–62, Cl. 74—7.
Hovenkamp, Lawrence E. Vehicle stake locking means. 3,041,103, 6–26–62, Cl. 296—43.
Hover, Monte E. Quick adjustable screw means. 3,063,302, 11–13–62, Cl. 74—424.8.
Hovey, John M., and H. H. Levy. Gated exclusively-OR circuit with clock pulse control. 3,037,126, 5–29–62, Cl. 307—88.5.
Hovey, Preston W. Spring suspension steering knuckles for automotive vehicles. 3,036,843, 5–29–62, Cl. 280—96.2.

Hovey, Ralph J. : *See*—
Hildebrandt, Robert A., Hovey, and Walters. 3,015,758.
Hovind, John K. T bar hanger clip. 3,039,571, 6–19–62, Cl. 189—35.
Hovis, Victor M., Jr. Power-driven reciprocating hoe. 3,057,-412, 10–9–62, Cl. 172—42.
Hovland, Howard N., and M. A. Wichman, to American Can Co. Dispensing carton. 3,048,320, 8–7–62, Cl. 229—20.
Hovnanian, Hrair P., to Avco Corp. Endoscope. 3,051,166, 8–28–62, Cl. 128—4.
Howa Kogyo Kabushiki Kaisha : *See*—
Noda, Shozo. 3,067,471.
Howa Kogyo Kabushiki-Kaisha (known as Howa Machinery, Ltd.) : *See*—
Ito, Tsutomj. 3,069,729.
Howahr, Erich, and H. Pahnke, to Maschinenfabrik Sack G.m.b.H. Hydraulic presses. 3,024,676, 3–13–62, Cl. 78—42.
Howald, Brian W., to Lorain Products Corp. Regulated rectifier. 3,045,170, 7–17–62, Cl. 321—19.
Howald, Werner E. : *See*—
Foster, Tom, and Howald. 3,017,159.
Howald, Werner E., to Curtiss-Wright Corp. Thrust reverser for jet engines. 3,016,700, 1–16–62, Cl. 60—35.54.
Howald, Werner E., and A. De Feo, to Curtiss-Wright Corp. Fluid mixing apparatus. 3,048,376, 8–7–62, Cl. 259—4.
Howard, Arthur C., to Rotary Hoes Ltd. Variable drive transmission. 3,015,966, 1–9–62, Cl. 74—325.
Howard, Bernard : *See*—
Blinken, Robert J., and Howard. 3,069,496.
Howard, Bernard, to Mite Corp. Display transmitter. 3,022,376, 2–20–62, Cl. 178—81.
Howard, Bernard, to Mite Corp. Positioning printer. 3,042,-174, 7–3–62, Cl. 197—2.
Howard, Bernard, to Mite Corp. Self-inking tape mechanism. 3,063,539, 11–13–62, Cl. 197—49.
Howard, Bernard, to Mite Corp. Telegraph printer. 3,063,-540, 11–13–62, Cl. 197—49.
Howard, Brian T., to Bell Telephone Laboratories, Inc. Vapor-solid diffusion of semiconductive material. 3,066,-052, 11–27–62, Cl. 148—1.5.
Howard, Carl G. Rectifier. 3,019,381, 1–30–62, Cl. 321—21.
Howard, Carlton J., and E. W. Sobolewski, to Allied Chemical Corp. Production of titanium metal. 3,022,159, 2–20–62, Cl. 75—84.5.
Howard, Charles D. : *See*—
Coates, Roy K., and Howard. 3,042,295.
Howard, Charles E., Jr. Aluminum sheathed cable. 3,031,-523, 4–24–62, Cl. 174—102.
Howard, Charles F., and J. J. Keane, to General Electric Co. Insulated coil and method of making same. 3,048,-051, 8–7–62, Cl. 174—126.
Howard, Charles M., R. M. James, and H. F. Schneider, to United States of America, Air Force. Multivale for determining pressure distribution on air foils and the like. 3,057,205, 10–9–62, Cl. 73—401.
Howard, Charles W. : *See*—
Rowe, Bartholomew M. 3,058,164.
Howard, Donald K. : *See*—
Campbell, George A., and Howard. 3,026,265.
Howard, Donald W. : *See*—
Gaston, Gardner E., and Howard. 3,025,147.
Gaston, Gardner E., and Howard. 3,033,665.
Howard, Edward G., to E. I. du Pont de Nemours and Co. Thiochloral and polymers thereof. 3,055,874, 9–25–62, Cl. 260—79
Howard, Edward G., Jr. : *See*—
Brasen, Wallace R., and Howard. 3,052,705.
Howard, Edward G., Jr., to E. I. du Pont de Nemours and Co. Thioketenes and polymers. 3,035,030, 5–15–62, Cl. 260—79.7.
Howard, Everett W. : *See*—
Nathan, Marvin F., Howard, and McGrath. 3,043,769.
Howard, Forrest C. : *See*—
Richards, Thomas S., and Howard. 3,048,035.
Howard, Frank A., to Firestone Tire & Rubber Co. Inflation valve arrangements for pneumatic tires. 3,060,990, 10–30–62, Cl. 152—342.
Howard, Frank A. Elastomer plug dual valve. 3,065,763, 11–27–62, Cl. 137—223.
Howard, Frank, Jr. : *See*—
Shattuck, Owen M. 3,061,719.
Howard, Frank L. : *See*—
Jannarelli, Albert E., and Howard. 3,067,059.
Howard, Fred W. : *See*—
Templeton, William B., and Howard. 3,029,075.
Howard, Frederick G., to Sealance Ltd. Containers for mastic materials and to means for mixing the contents thereof. 3,043,424, 7–10–62, Cl. 206—47.
Howard, George C. : *See*—
Fast, Clarence R., and Howard. 3,033,286.
Fast, Clarence R., Howard, and Lubinski. 3,050,119.
Howard, George C. : *See*—
Bearden, William G., Fast, and Howard. 3,065,791.
Howard, George J., Jr., to United Aircraft Corp. Air filter. 3,016,109, 1–9–62, Cl. 183—61.
Howard, Glenn O., to Jersey Production Research Co. Zone selector for wells. 3,040,812, 6–26–62, Cl. 166—149.
Howard, Harold T., and C. D. Marrable, to Imperial Chemical Industries Ltd. Phthalocyanine colouring matters. 3,042,-683, 7–3–62, Cl. 260—314.5.
Howard, Harold T., F. H. Slinger, and J. Wardleworth, to Imperial Chemical Industries Ltd. New triazino nitro dyestuffs. 3,054,792, 9–18–62, Cl. 260—247.1.
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Howard, Herbert H., and P. A. Smith, to Permanent Filter Corp. Filter device. 3,043,826, 7–24–62, Cl. 210—90.
Howard, Herbert H., P. A. Smith, and R. A. Lubben, to Permanent Filter Corp. Filtration equipment. 3,062,377, 11–6–62, Cl. 210—315.
Howard, Herbert H., P. A. Smith, and R. A. Lubben, to Permanent Filter Corp. Method of making a wrapped filter tube of fiberglass and foraminous material. 3,063,-888, 11–13–62, Cl. 156—187.
Howard, Herbert J. : *See*—
Cohane, Harry E., and Howard. 3,050,230.
Howard, Jack E., and L. A. Kaplan, to United Cellular Products Corp. Apparatus and method for making breast fronts. 3,058,154, 10–16–62, Cl. 18—19.
Howard, James Y., and F. S. Craig, to General Railway Signal Co. Means for latching armatures of electromagnetic devices. 3,060,354, 10–23–62, Cl. 317—187.
Howard, John A., to Rotary Hoes Ltd. Trench digging machine. 3,067,533, 12–11–62, Cl. 37—94.
Howard, John F., to Canadian General Electric Co. Ltd. Thermal device. 3,028,051, 6–5–62, Cl. 200—122.
Howard, John H., to Burroughs Corp. Coded document reader. 3,051,836, 8–28–62, Cl. 250—78.
Howard, John R., to Modu-Wall, Inc. Window slider. 3,024,-502, 3–13–62, Cl. 20—42.
Howard, Paul J. Multiple container for plants. 3,028,705, 4–10–62, Cl. 47—37.
Howard, Paul J. Handle and card carrier. 3,047,971, 8–7–62, Cl. 40—1.
Howard, Robert C., to Giannini Controls Corp. Variable increment pressure regulator. 3,048,185, 8–7–62, Cl. 137—103.
Howard, Robert C., to Giannini Controls Corp. Stabilized servomechanism. 3,048,759, 8–7–62, Cl. 318—448.
Howard, Robert C., and J. C. Bokros, to United States of America, Atomic Energy Commission. Fuel element. 3,024,181, 3–6–62, Cl. 204—193.2.
Howard, Ronald, and G. P. M. Cochrane. High frequency call system. 3,015,727, 1–2–62, Cl. 250—20.
Howard, Ronald J. F. : *See*—
Robinson, Kenneth A., Woodward, and Howard. 3,032,-668.
Howard, Stanley R., to Pneumatic Scale Corp., Ltd. Container forming machine. 3,047,053, 7–31–62, Cl. 156—581.
Howard, Walter B., to Monsanto Chemical Co. Prevention of premature methine-screen reaction by use of tetra-alkyllead. 3,062,906, 11–6–62, Cl. 260—679.
Howard, Wayne R., to Clark Equipment Co. Hydrodynamic coupling. 3,026,679, 3–27–62, Cl. 60—54.
Howard, Wayne R., to Clark Equipment Co. Hydrodynamic coupling. 3,042,142, 7–3–62, Cl. 285—321.
Howard, William J. Closure for oil pan drain opening. 3,051,349, 8–28–62, Cl. 220—39.
Howard, William L., and N. B. Lorette, to The Dow Chemical Co. Process for the preparation of simple ketals. 3,024,-284, 3–6–62, Cl. 260—611.
Howarth, Arthur J., and R. W. Collins, to United Kingdom Atomic Energy Authority. Sampling devices. 3,026,730, 3–27–62, Cl. 73—425.4.
Howarth, Wesley L., and T. K. Moy, to Westinghouse Electric Corp. Combination turbojet and ramjet. 3,016,694, 1–16–62, Cl. 60—35.5.
Howatt, Glenn H., to Gulton Industries, Inc. Piezoelectric transducer. 3,021,441, 2–13–62, Cl. 310—8.
Howatt, Glenn N., to Gulton Industries, Inc. Hydrophone with spaced electromechanical ceramic elements. 3,027,-540, 3–27–62, Cl. 340—10.
Howatt, Glenn N., to Gulton Industries, Inc. Ceramic components and method of making same. 3,054,035, 9–11–62, Cl. 317—258.
Howatt, Glenn N., A. I. Dranetz, and W. Welkowitz, to Gulton Industries, Inc. Thin sheet ferrite memory matrix and method. 3,040,301, 6–19–62, Cl. 340—174.
Howden, James W., to Permex Corp. Method for bonding fibers together. 3,033,726, 5–8–62, Cl. 156—31.
Howdle, Frederic E., and E. X. Schmidt, to Cutler-Hammer, Inc. Counting device. 3,027,075, 3–27–62, Cl. 235—98.
Howton Videx Products Corp. : *See*—
Peyser, Leonard F. 3,060,316.
Howe, Alvah B. Releasable binder for check blanks or the like. 3,025,081, 3–13–62, Cl. 281—17.
Howe-Baker Engineers, Inc. : *See*—
Phillips, Robert J. 3,066,087.
Howe, Cyril A., to Cleaver-Brooks Co. Monitoring device for fluid level indicators. 3,060,717, 10–30–62, Cl. 73—1.
Howe, Earl E. : *See*—
Kern, Henry W. 3,045,735.
Howe, Earl E. Pilot weld nut and method of making the same. 3,045,736, 7–24–62, Cl. 151—41.7.
Howe, Earl E. Screw thimble fitting having toggle rings with a sealing feature. 3,058,762, 10–16–62, Cl. 285—340.
Howe, Edwin W. : *See*—
Rumrill, Howard J., Howe, Harnett, and Browe. 3,038,-686.
Howe, Edwin W., to American Bosch Arma Corp. Helical cam. 3,048,053, 8–7–62 ,Cl. 74—467.

Howe Folding Furniture, Inc.: *See*—
Howe, Harold. 3,025,120.
Howe, Harold. 3,028,205.
Howe, Harold. 3,060,600.
Howe, Frank D., to Ingersoll-Rand Co. Piston wear device. 3,039,834, 6–19–62, Cl. 309—14.
Howe, Harold, to Howe Folding Furniture, Inc. Folding tables. 3,025,120, 3–13–62, Cl. 311—92.
Howe, Harold, to Howe Folding Furniture, Inc. Folding table tray and the like with operating handle. 3,028,205, 4–3–62, Cl. 311—85.
Howe, Harold, to Howe Folding Furniture, Inc. Snowshoe harness. 3,060,600, 10–30–62, Cl. 36—4.5.
Howe, Harry: *See*—
Brooke, Wilfrid, and Howe. 3,054,944.
Howe, John G.: *See*—
Flowers, Ralph G., Butt, and Howe. 3,058,951.
Howe, John R., and J. J. Cook. Auxiliary drive clutch mechanism. 3,050,321, 8–21–62, Cl. 287—53.
Howe, Joseph H., to The Dow Chemical Co. Phthalide substituted phenolphthaleinpolycarbonate resins. 3,035,021, 5–15–62, Cl. 260—47.
Howe, Joseph H., to The Dow Chemical Co. Phenolphthaleinpolycarbonate resins. 3,036,036, 5–22–62, Cl. 260—47.
Howe, Joseph H., to The Dow Chemical Co. Phenolsulphonephthalein-polycarbonate resins. 3,036,037, 5–22–62, Cl. 260—47.
Howe, Joseph H., to The Dow Chemical Co. Phthalideinpolycarbonate resins. 3,036,038, 5–22–62, Cl. 260—47.
Howe, Joseph H., to The Dow Chemical Co. Fluoresceinpolycarbonate resins. 3,036,039, 5–22–62, Cl. 260—47.
Howe, Joseph H., to The Dow Chemical Co. Thioketo acid containing a vinylphenyl substituent and polymeric products thereof. 3,047,547, 7–31–62, Cl. 260—79.7.
Howe, Milton A., Jr.: *See*—
Harrison, John W., Ford, Dreyfus, and Howe. 3,039,664.
Howe, Nathaniel S., C. W. Davis, B. H. Smith, S. J. Nesta, and C. D. Fulsher, deceased (by M. B. Pulsifer, administratrix), to The New Britain Machine Co. Table-feed mechanism for thread cutting machine. 3,066,330, 12–4–62, Cl. 10—101.
Howe Sound Co.: *See*—
Benson, Charles L., and Tingquist. 3,048,905.
Feeser, Emil. 3,044,171.
Horton, Robert A., Ashbrook, and Feagin. 3,019,497.
Oberhall, Theodore, and Kuhary. 3,063,113.
Youngren, Fred R., Fossier, and Howe. 3,063,654.
Zittle, John H. 3,062,337.
Howe, Stanley M., to The Home-O-Nize Co. Removable drawer front. 3,024,075, 3–6–62, Cl. 312—214.
Howe, Wilfred H.: *See*—
Allen, Albert, Howe, and Bowditch. 3,070,716.
Freitas, Manuel P., and Howe. 3,034,718.
Howe, William S., Jr. Snow thrower. 3,045,369, 7–24–62, Cl. 37—42.
Howe, Wilson S., to Combo-Craft, Inc. Amphibious pontoon boat. 3,042,942, 7–10–62, Cl. 9—1.
Howell, Alun R., and L. Islip, to Power Jets (Research and Development) Ltd. Turbine blades. 3,027,138, 3–27–62, Cl. 253—77.
Howell, Charles F.: *See*—
Hardy, Robert A., Jr., Howell, and Quinones. 3,029,189.
Hardy, Robert A., Jr., Howell, and Quinones. 3,037,990.
Hardy, Robert A., Jr., Howell, and Quinones. 3,047,461.
Howell, Edward K., to General Electric Co. Load monitoring circuit. 3,054,991, 9–18–62, Cl. 340—251.
Howell, Edward N., Sr. Articulated door construction. 3,023,804, 3–6–62, Cl. 160—40.
Howell, Evan S., Jr.: *See*—
Hamilton, Donald A., and Howell. 3,029,059.
Howell, F. M. & Co.: *See*—
Taylor, Harwood S., Jr. 3,029,998.
Howell, Harris E. Toilet ventilation device. 3,069,696, 12–25–62, Cl. 4—213.
Howell Instrument, Inc.: *See*—
Brunson, Raymond D. 3,067,604.
Howell, Jack McC. Can crusher. 3,034,422, 5–15–62, Cl. 100—70.
Howell, John K., and F. A. Bean, to Westinghouse Electric Corp. Circuit interrupters. 3,026,395, 3–20–62, Cl. 200—146.
Howell, Luther D., Sr.: *See*—
Morrow, Morris R., Snyder, and Howell. 3,065,171.
Howell, Richard S.: *See*—
Benn Robert E., Howell, and Sakurai. 3,068,479.
Howell, Robert L.: *See*—
Caferro, Edward M., Howell, Justus, and Williams. 3,041,595.
Howell, Roland C., Jr., to S. A. Cook & Co. Attachment for pads of a chair. 3,030,148, 4–17–62, Cl. 297—456.
Howell, Roland C., Jr., to S. A. Cook & Co. Attachment for pads of a chair. 3,030,149, 4–17–62, Cl. 297—456.
Howell, Ronald T. A., and L. Young, to Decca Ltd. Microwave apparatus. 3,045,188, 7–17–62, Cl. 329—161.
Howell, Stanley. Method of uniting copper and aluminum. 3,040,427, 6–26–62, Cl. 29—474.3.
Howell, Thomas B., and M. Rogin. Projection device for producing composite optical image effects. 3,025,756, 3–20–62, Cl. 88—24.
Howell, Walter T.: *See*—
Wilde, Geoffrey L., and Howell. 3,024,967.
Howells, Joan W.: *See*—
Howells, Thomas E. 3,027,698.
Howells, John R.: *See*—
Blake, Leslie R., and Howells. 3,025,705.
Howells, Paul W., and M. J. Dominguez, to General Electric Co. Sideband detector measuring circuit. 3,060,380, 10–23–62, Cl. 324—77.
Howells, Robert D., to The Bryant Electric Co. Wiring device. 3,032,736, 5–1–62, Cl. 339—14.
Howells, Thomas E., deceased; F. J. Marshall, administrator, to J. W. Howells. Counting and packaging machine. 3,027,698, 4–3–62, Cl. 53—147.
Hower, John, Jr.: *See*—
Frederickson, Arman F., Hower, and Reynolds. 3,022,140.
Howes, M. M., and W. B. Voorhis, to Tung-Sol Electric Inc. Transistor mounting. 3,041,510, 6–26–62, Cl. 317—235.
Howes, Benjamin T., and I. M. Swatman, to Ford Motor Co. Gas turbine engine. 3,062,497, 11–6–62, Cl. 253—39.
Howes, Irving C., to Davis & Furber Machine Co. Pile fabric knitting machines. 3,019,623, 2–6–62, Cl. 66—9.
Howes, Irving C., to Davis & Furber Machine Co. Knitted pile fabric and method of making same. 3,052,111, 9–4–62, Cl. 66—191.
Howes, Royal E., and P. Higashi, to The National Cash Register Co. Magnetic core driving circuit. 3,027,546, 3–27–62, Cl. 340—174.
Howie, Wilbert A. Aircraft vehicle. 3,045,948, 7–24–62, Cl. 244—12.
Howk, Benjamin W., to E. I. du Pont de Nemours and Co. Polymeric polyretones and process for preparing same. 3,065,194, 11–20–62, Cl. 260—63.
Howk, Benjamin W., and J. C. Sauer, to E. I. du Pont de Nemours and Co. Preparation of hydroquinone and quinhydrone from acetylene and carbon monoxide. 3,055,949, 9–25–62, Cl. 260—621.
Howland, Louis H., and V. S. Chambers, to United States Rubber Co. Process of increasing the particle size of synthetic latex comprising adding polyvinyl methyl ether to a latex containing salt electrolyte. 3,049,500, 8–14–62, Cl. 260—17.4.
Howland, Louis H., and V. S. Chambers, to United States Rubber Co. Increasing the particle size of synthetic rubber latex by lowering and raising the pH in the presence of polyvinylmethyl ether. 3,049,501, 8–14–62, Cl. 260—17.4.
Howland, Louis H., and V. S. Chambers, to United States Rubber Co. Process of increasing the particle size of synthetic latex by adding polyvinyl methyl ether to a latex containing salt electrolyte and unreacted monomer. 3,049,502, 8–14–62, Cl. 260—17.4.
Howland, Louis H., and L. E. Dannals, to United States Rubber Co. Butadiene polymer latex treated with a cross-linked polyvinyl methyl ether. 3,056,758, 10–2–62, Cl. 260—29.7.
Howling, Dennis H., to McGraw-Edison Co. Radiation detector tubes. 3,047,761, 7–31–62, Cl. 313—93.
Howman, Ralph W. Prewired interconnectors for remote control of program distribution and intercommunication. 3,037,567, 6–5–62, Cl. 179—1.
Howry, Douglass H. Ultrasonic method and apparatus for investigating the interior structure of solid bodies. 3,023,611, 3–6–62, Cl. 73—67.8.
Howsmon, Wilfred B., Jr., to The Standard Oil Co. Preparation of hydracryolnitrile. 3,024,267, 3–6–62, Cl. 260—465.7.
Howsmon, Wilfred B., Jr., to The Standard Oil Co. Process for the selective conversion of acrolein to propionaldehyde. 3,056,840, 10–2–62, Cl. 260—601.
Howton, R. N.: *See*—
Dresser, James R., and Rosenthal. 3,031,043.
Hoxie, John P., and F. M. Neal, to Corning Glass Works. Luminaire. 3,047,716, 7–31–62, Cl. 240—1.2.
Hoxworth, Don R. Air-hydraulic control unit. 3,029,061, 4–10–62, Cl. 251—62.
Hoy, Herbert R., D. M. Wilkins, and R. L. Johnson, to C.U.R.A. Patents Ltd. Granulation of molten material. 3,016,566, 1–16–62, Cl. 18—2.4.
Hoyden, Adolf, to Gutehoffnüngshutte Sterkrade Aktiengesellschaft. Metallic bunker construction. 3,061,274, 10–30–62, Cl. 257—208.
Hoye, Peter A. T.: *See*—
Coates, Harold, and Hoye. 3,035,053.
Coates, Harold, and Hoye. 3,037,978.
Hoye, Raymond L. Paper support. 3,048,939, 8–14–62, Cl. 45—85.
Hoyer, Hans: *See*—
Sennewald, Kurt, Wolfram, Kolb, Sievers, and Hoyer. 3,057,916.
Hoyer, Horst G.: *See*—
Handschumaker, Edward, and Hoyer. 3,069,270.
Hoyer, Michael G. Automatic indexing device for use with turret type reloading shell machines. 3,058,387, 10–16–62, Cl. 86—27.
Hoyer, Oluf G. Method and apparatus for filling pre-cooled material into a row of refrigeration cells. 3,035,417, 5–22–62, Cl. 62—65.
Hoyer, Oluf G. Machine for the production of solidified moulded bodies by refrigeration. 3,035,686, 5–22–62, Cl. 198—209.

Høyer, Oluf G. Apparatus for filling liquid or plastic material into freezing cells of a refrigerator. 3,068,911, 12–18–62, Cl. 141—115.

Hoyer, Wilmer A.: *See*—
Rumble, Robert C., and Hoyer. 3,032,107.

Hoyes Industries, Inc.: *See*—
McCluer, Kenneth L., and Sharp. 3,025,021.

Hoyet, Eugene, and J. H. McLaughlin, to Pittsburgh Plate Glass Co. Manufacture of plate glass. 3,036,410, 5–29–62, Cl. 51—112.

Hoyle, George T., Jr.: *See*—
Smith, Elmus H., and Hoyle. 3,067,845.

Hoyler, Alfred E., to Avog Elektro -und Feinmechanik G.m.b.H. Pivot bearing, particularly for windshield wipers. 3,016,766, 1–16–62, Cl. 74—588.

Hoyler, Alfred E., to Robert Bosch G.m.b.H. Windshield wiper blade. 3,029,460, 4–17–62, Cl. 15—250.42.

Hoyt, Charles H., to Crown Zellerbach Corp. Sulfonated-lignin-iron-chromium complex and process of making the same. 3,035,042, 5–15–62, Cl. 260—124.

Hoyt, Charles H., to Crown Zellerbach Corp. Modified sulfonated lignin material and process of producing the same. 3,070,591, 12–25–62, Cl. 260—124.

Hoyt, Charles W., and J. F. Murphy, Jr., to W. R. Grace & Co. Apparatus for drying charged storage battery cell elements. 3,054,607, 9–18–62, Cl. 263—36.

Hoyt, Clyde W.: *See*—
Thomas, Lucius P., Jr., Hoyt, and Iden. 3,040,298.

Hoyt, Deryl R., to Clark Equipment Co. Counterweight positioning means. 3,061,034, 10–30–62, Cl. 180—68.5.

Hoyt, Deryl R., and D. W. Stevens, to Clark Equipment Co. Pusher attachment for lift trucks. 3,039,636, 6–19–62, Cl. 214—514.

Hoyt, John M.: *See*—
Cohen, Howard J., and Hoyt. 3,046,267.
Cohen, Howard J., and Hoyt. 3,046,269.
Honn, Francis J., and Hoyt. 3,053,818.
Mantell, Russell M., and Hoyt. 3,043,823.

Hoyt, Lewis O., and L. R. Hale. Rubber boot anchor. 3,047,-967, 8–7–62, Cl. 36—58.5.

Hoyt, William M. Emergency fuel feeding system for airplanes. 3,022,053, 2–20–62, Cl. 261–18.

Hoyte, William N., to Foster Wheeler Corp. Recovery of the anhydrides of polycarboxylic acids. 3,040,059, 6–19–62, Cl. 260—346.4.

Hrabal, Charles J. Die-set construction. 3,034,464, 5–15–62, Cl. 113—49.

Hrach, William: *See*—
Baird, William G., and Hrach. 3,018,505.

Hradek, Edward J., and H. W. Brown, Sr., to The National Acme Co. Threading machine with collapsible tap having means to permit replacement of cutter bits. 3,041,641, 7–3–62, Cl. 10—145.

Hradel, Joseph R.: *See*—
Osborn, Oliver, McCutchen, and Hradel. 3,053,710.

Hradel, Joseph R., to The Dow Chemical Co. Area detonation. 3,024,727, 3–13–62, Cl. 102—23.

Hradel, Joseph R., and J. C. Cline, to The Dow Chemical Co. Counterforce initiation. 3,021,785, 2–20–62, Cl. 102—24.

Hreno, Michael. Illuminated fishing bobber. 3,041,771, 7–3–62, Cl. 43—17.5.

Hronas, John J., to Hagan Chemicals & Controls, Inc. Water purification agents and method of using same. 3,066,095, 11–27–62, Cl. 210—53.

Hronas, John J., and C. T. Noland, to Hagan Chemicals & Controls, Inc. Liquid dispenser. 3,045,872, 7–24–62, Cl. 222—146.

Hruby, John O., Jr., to Rain Jet Corp. Gyratory stem sprinklers with upper chamber. 3,019,991, 2–6–62, Cl. 239—206.

Hruby, John O., Jr., to Rain Jet Corp. Floating fountain. 3,030,028, 4–17–62, Cl. 239—17.

Hruby, John O., Jr. to Rain Jet Corp. Lawn sprinklers. 3,034,728, 5–15–62, Cl. 239—206.

Hruby, John O., Jr., to Rain Jet Corp. Centrifugal separator process and apparatus. 3,067,876, 12–11–62, Cl. 210—65.

Hrucz, Paul. Prospector toy. 3,047,979, 8–7–62, Cl. 46—1.

Hruska, Roman L.: *See*—
Luebben, Ummo F. 3,064,556.

Hrycenko, Peter. Centering device. 3,032,885, 5–8–62, Cl. 33—185.

Hryniszak, Waldemar to C. A. Parsons & Co. Ltd. Plate type heat exchangers. 3,042,382, 7–3–62, Cl. 257—245.

Hryniszak, Waldemar, and D. A. Jones, to C. A. Parsons & Co. Ltd. Thermal power plants. 3,030,779, 4–24–62, Cl. 60—104.

Hsiung, Du Yung: *See*—
De Mytt, Louis E., and Hsiung. 3,066,077.

Hsiung, Du Yung, to The Gillette Co. Magnesium salt of thioglycolic acid. 3,034,045, 11–13–62, Cl. 260—526.

Hu, Kuang P. Prefabricated building. 3,068,534, 12–18–62, Cl. 20—1.

Huag, Roy L.: *See*—
Haanstra, John W., Huag, Lesser, Stevens, and Woodbury. 3,026,036.

Huang, Chinz Y.: *See*—
Imoto, Minoru and Huang. 3,035,023.
Imoto, Minoru, and Huang. 3,053,793.

Huang, Denis K.: *See*—
Othmer, Donald F., and Huang. 3,023,254.

Huang, Elizabeth: *See*—
Julian, Percy L., Huang, and Magnani. 3,030,389.

Huang, Hsing T., to Chas. Pfizer & Co., Inc. Preparation of 2-keto-1-gulonic acid. 3,043,749, 7–10–62, Cl. 195—47.

Huang, Paul C., to United States Steel Corp. Method of and apparatus for preventing edge buildup of coating material on dip-coated strip. 3,049,441, 8–14–62, Cl. 117—115.

Huard, Stephen R. Potentiometer. 3,029,404, 4–10–62, Cl. 338—183.

Hub, Kenneth A., to Internuclear Co. Nuclear reactor control system. 3,065,162, 11–20–62, Cl. 204—193.2.

Huba, Francis: *See*—
Bluestone, Henry, Schuldt, Wotiz, Eatemann, and Huba. 3,037,058.

Hubacker, Earl F., to Whirlpool Corp. Home appliance. 3,022,640, 2–27–62, Cl. 62—156.

Hubacker, Earl F., to Whirlpool Corp. Home appliance. 3,027,733, 4–3–62, Cl. 62—353.

Hubacker, Earl F., and J. E. Krug, to Whirlpool Corp. Home appliance. 3,020,733, 2–13–62, Cl. 62—414.

Hubacker, Earl F., and C. E. Boettcher, to Whirlpool Corp. Diametrically sliding vane compressor. 3,066,852, 12–4–62, Cl. 230—153.

Huband, Leonard W., and M. Hafner, to United States Testing Co., Inc. Fixture for mounting components to measure their temperature coefficients. 3,039,058, 6–12–62, Cl. 324—158.

Hubard, Stephen S.: *See*—
Macatician, John, and Hubard. 3,043,100.

Hubbard, Addison W.: *See*—
Miller, Rae, and Hubbard. 3,054,690.

Hubbard, Albert B., to Rotron Research Corp. Densitometer. 3,063,287, 11–13–62, Cl. 73—30.

Hubbard, Arthur L., to Deere & Co. Cotton harvester with stop means actuated by the moistering assembly. 3,028,-718, 4–10–62, Cl. 56—41.

Hubbard, Arthur L., to Deere & Co. Cotton harvester. 3,030,757, 4–24–62, Cl. 56—43.

Hubbard, Arthur L., to Deere & Co. Cotton harvester. 3,043,075, 7–10–62, Cl. 56—40.

Hubbard, Arthur L., to Deere & Co. Cotton harvester. 3,047,996, 8–7–62, Cl. 56—41.

Hubbard, Arthur L., to Deere & Co. Moistener mechanism for cotton harvester. 3,047,997, 8–7–62, Cl. 56—44.

Hubbard, Arthur L., to Deere & Co. Closure device. 3,048,-219, 8–7–62, Cl. 160—217.

Hubbard, Arthur L., to Deere & Co. Doffer plate. 3,048,962, 8–14–62, Cl. 56—41.

Hubbard, Arthur L., to Deere & Co. Cotton spindle cleaning means. 3 066,466, 12–4–62, Cl. 56—41.

Hubbard, Charles L., and R. D. Smith, to Olin Mathieson Chemical Corp. Firing pin of light weight material, such as aluminum or titanium. 3,056,226, 10–2–62, Cl. 42—69.

Hubbard and Co.: *See*—
Cunningham, Francis V. 3,069,589.

Hubbard, David W., to Sperry Rand Corp. Electro-Magnetic stored energy card punch. 3,055,250, 9–25–62, Cl. 83—575.

Hubbard, Harold M., and J. H. Kennedy, to E. I. du Pont de Nemours and Co. Process for the extraction of tungsten values from materials containing same. 3,047,361, 7–31–62, Cl. 23—19.

Hubbard, James R., to Philco Corp. Combination washing and drying machines. 3,038,324, 6–12–62, Cl. 68—19.

Hubbard, James R., to Philco Corp. Laundry apparatus. 3,039,613, 6–19–62, Cl. 210—364.

Hubbard, James W.: *See*—
English, Jack B., and Hubbard. 3,034,097.

Hubbard, John L.: *See*—
Matthews, Russell R., and Hubbard. 3,027,919.

Hubbard, John L., to The Firth Carpet Co. Pattern mechanism for pile fabrics. 3,019,625, 2–6–62, Cl. 66—84.

Hubbard, John L., to The Firth Carpet Co., Inc. Knitted pile fabrics. 3,043,124, 7–10–62, Cl. 66—191.

Hubbard, Norman L.: *See*—
Hauser, Raymond E., Majeske, and Hubbard. 3,028,-774.

Hubbard, Robert L., to Warner-Lambert Pharmaceutical Co. Ball-type applicator device. 3,047,901, 8–7–62, Cl. 15—505.

Hubbard, Thomas P., Jr.: *See*—
Youmans, Arthur H., and Hubbard. 3,019,340.

Hubbard, Wallace L., and D. A. Essex, to Deere & Co. Crop dryer. 3,050,111, 8–21–62, Cl. 158—28.

Hubbard, William J., and L. H. Flaherty, to Libbey-Owens-Ford Glass Co. Glass door hardware locating apparatus. 3,050,839, 8–28–62, Cl. 29—256.

Hubbard, Winchester L.: *See*—
Sundholm, Norman K., Hubbard, and Riddell. 3,029,138.

Hubbell, Harvey, to Harvey Hubbell Inc. Multi-wire connector and plug with selective central key means for different voltages. 3,023,394, 2–27–62. Cl. 339—186.

Hubbell, Harvey, to Harvey Hubbell, Inc. Sealing cover plate for toggle switches. 3,028,467, 4–3–62. Cl. 200—168.

Hubbell, Harvey, and E. R. Carlson, to Harvey Hubbell Inc. Electric power outlet. 3,023,395, 2–27–62, Cl. 339—191.

Hubbell, Harvey, and C. T. von Holtz, to Harvey Hubbell, Inc. Wire terminal clamp for electric wiring devices. 3,065,442, 11–20–62. Cl. 339—95.

Hubbell Harvey, and B. C. Webster, to Harvey Hubbell, Inc. Self locking receptacle and plug for electrical wiring devices. 3,066,276, 11–27–62. Cl. 339—189.

Hubbell, Harvey, Inc. : *See*—
Carlson, Ernest R. 3,061,694.
Carlson, Ernest R. 3,066,271.
Costanzo, Raphael J. 3,056,907.
Healy, Joseph F. 3,040,180.
Hubbell, Harvey. 3,023,394.
Hubbell, Harvey. 3,028,467.
Hubbell, Harvey, and Carlson. 3,023,395.
Hubbell, Harvey, and Von Holtz. 3,065,442.
Hubbell, Harvey, and Webster. 3,066,276.
Hubbell, Harvey, Jr. 3,061,083.
Sundquist, John A. 3,056,944.
Hubbell, Harvey, Jr., to Harvey Hubbell, Inc. Protective covering for open side of wall outlet boxes and the like during building construction. 3,061,083, 10–30–62, Cl. 206—46.
Hubbell, John P. : *See*—
Foote, Donald S., Flowers, and Hubbell. 3,048,503.
Hubbert, Marion K., W. C. Smith, and C. B. Johnson, Jr., to Shell Oil Co. Cavity configuration determination. 3,046,601, 7–31–62, Cl. 18—6.
Hubby, Laurence M. : *See*—
Egan, Edmond F., and Hubby. 3,016,767.
Hubby, Laurence M., to Texaco Inc. Monitoring systems. 3,040,308, 6–19–62, Cl. 340—213.
Hube, Arthur B., to American District Telegraph Co. Method and apparatus for protecting enclosed spaces. 3,025,505, 3–13–62, Cl. 340—240.
Hubenett, Fritz, and N. Schnack, to Union Rheinische Braunkohlen Kraftstoff AG. Production of dimethyl sulfide. 3,062,891, 11–6–62, Cl. 260—609.
Hubeny, Jerry A. Clamping and holding machine. 3,058,741, 10–16–62, Cl. 269—153.
Huber, Charles H. Air conditioners. 3,030,781, 4–24–62, Cl. 62—402.
Huber, Charles L. : *See*—
Crumrine, Herbert E., and Huber. 3,017,509.
Crumrine, Herbert E., and Huber. 3 060,131.
Huber, Charles L., to Xerox Corp. Xerographic developing apparatus. 3,062,178, 11–6–62, Cl. 118—11.
Huber, Clarence F., and P. F. Thompson, to The Cincinnati Milling Machine Co. Imidazoline compounds. 3,037,029, 5–29–62, Cl. 260—309.6.
Huber, Earl B. Process for the manufacture of fruit and vegetable juice concentrate. 3,023,111, 2–27–62, Cl. 99—205.
Huber, Emile J. Bed pan liner. 3,066,315, 12–4–62, Cl. 4—112.
Huber, Ernst : *See*—
Pudelko, Richard, Huber, and Kilchmann. 3,043,501.
Huber, Erwin J. : *See*—
Engel, James S., Bellis, and Huber. 3,054,107.
Huber, Francis C. : *See*—
Rehfuss, Caleb, and Huber. 3,033,895.
Huber, Erwin W., to Topflight Corp. Pick-off printed adhesive label and method of making the same. 3,024,155, 3–6–62, Cl. 156—247.
Huber, Frederic R., and L. M. Schenck, to General Aniline & Film Corp. Method of manufacturing alkyl iodides. 3,053,910, 9–11–62, Cl. 260—652.
Huber, Frieda C. Baby carrier. 3,027,058, 3–27–62, Cl. 224—6.
Huber, Friedo : *See*—
Schmeisser, Martin, and Huber. 3,067,111.
Huber, Georg. to Wilhelm Baier, K.G. Burner having a thermoelectric safety device. 3,027,932, 4–3–62, Cl. 158—28.
Huber, Gerhard : *See*—
Reiff, Ferdinand, Huber, and Holle. 3,049,536.
Huber, Henri. to Resources Research, Inc. Oxidation of petroleum distillates to obtain higher crystallized ethers, and higher liquid ethers. 3,052,727, 9–4–62, Cl. 260—614.
Huber, Henri J., and R. F. Lipscomb, to Western Electric Co., Inc. Article manipulating and processing apparatus. 3,056,517, 10–2–62, Cl. 78—82.
Huber, Herman L. Reversible fan and engine. 3,026,943, 3–27–62, Cl. 170—160.59.
Huber, Hubert G. : *See*—
Albers, John P., and Huber. 3,027,142.
Huber, J. M., Corp. : *See*—
Arnold, Le Roy R., Bloyd, and Carson. 3,051,238.
Takewell, Robert B., and Selfridge. 3,026,185.
Williams, Ira. 3,046,095.
Young, Harold A. 3,024,650.
Huber, John E. Liquid lifter pump. 3,059,583, 10–23–62, Cl. 103—117.
Huber, John R., to Eastern Rotorcraft Corp. Friction type holder device. 3,063,569, 11–13–62, Cl. 211—89.
Huber, Karl, Blechwarenfabrik : *See*—
Wieckmann, Gerhard. 3,038,624.
Huber, Leo F., and F. C. Kennedy. Automatic can crusher. 3,062,130, 11–6–62, Cl. 100—216.
Huber, Melvin H. Transportation carrier for animals. 3,063,414, 11–13–62, Cl. 119—19.
Huber, Melvin L. : *See*—
Bennett, Ovell F., Huber, and Smiley. 3,022,320.
Huber, Melvin M. : *See*—
Enoch, Duard W., and Huber. 3,032,418.
Enoch, Duard W., and Huber. 3,062,658.
Huber, Mortimer J., to Motion Products Inc. Slip ring assembly. 3,059,202, 10–16–62, Cl. 339—5.
Huber, Ralph L., deceased ; by J. L. Havirco, administratrix. Means for the extraction and storage of blood. 3,032,037, 5–1–62, Cl. 128—276.
Huber, Richard, to Pertrix Union Gesellschaft mit beschrankter Haftung. Primary battery cell. 3,040,114, 6–19–62, Cl. 136—83.
Huber, Robert, to Societe d'Etudes et de Participations Eau, Gaz Electricite Energie S.A. Power plants comprising at least one free-piston gas-generator and a gas turbine. 3,049,866, 8–21–62, Cl. 60—13.
Huber, Robert E., to Nordette, Inc. Protective carrying case. 3,036,699, 5–29–62, Cl. 206—16.5.
Huber, Rudolf : *See*—
Rutz, Hans, and Huber. 3,018,603.
Huber, William J., to Goodman Mfg. Co. Method and apparatus for packaging granular materials. 3,058,272, 10–16–62, Cl. 53—37.
Huber, Willy. Apparatus for determining the density of a direct current. 3,058,056, 10–9–62, Cl. 324—29.
Huber, Willy. Apparatus for regulating current density and other factors in an electrolytic bath. 3,067,123, 12–4–62, Cl. 204—231.
Hubert, Jean M. A. Overhead conveyer system. 3,055,484, 9–25–62, Cl. 198—129.
Hubert, Jean M. A., to Societe d'Etudes et d'Exploitation pour le Transport Continu par Canalisation Mobile, par Abreviation Seecam. Self-propelled train for semi-continuous conveyor systems. 3,066,615, 12–4–62, Cl. 104—121.
Hubert, René : *See*—
Hubert, Jean, Hubert, and Heintz. 3,019,894.
Hubick, Leonard. Stabilizer for boats. 3,064,613, 11–20–62, Cl. 114—121.
Hubinger Co., The : *See*—
Bauer, Jordan V., and Elizer. 3,019,120.
Elizer, Lee H., Glasscock, and Seitz. 3,051,691.
Elizer, Lee H., Glasscock, and Seltz. 3,051,698.
Elizer, Lee H., Glasscock, and Seitz. 3,051,699.
Elizer, Lee H., Glasscock, and Seitz. 3,051,700.
Hubl, Josef. Hot water bottles. 3,028,899, 4–10–62, Cl. 150—2.1.
Hubland, Joseph J., and P. A. Bumpus, to John H. Breck, Inc. Dispenser-applicator device. 3,054,133, 9–18–62, Cl. 15—565.
Hubner, Otto. Power pack means for electrical appliance. 3,027,507, 3–27–62, Cl. 320—2.
Hubol, Robert W. : *See*—
Goddard, Murray C., and Hubol. 3,029,691.
Hübscher, Rudolf F., to George Fischer A.G. Braking system for road vehicles with air cushioning and air brakes. 3,043,633, 7–10–62, Cl. 303—22.
Huch, Carl W., and C. W. Huch, Jr. Apparatus for producing wall board forms. 3,017,683, 1–23–62, Cl. 25—121.
Huch, Carl W., Jr. : *See*—
Huch, Carl W., and C. W. Huch, Jr. 3,017,683.
Huch, William F. : *See*—
Bohl, Leland S., Critchfield, Huch, Ney, and Winckler. 3,061,654.
Bohl, Leland S., Huch, Ney, and Winckler. 3,070,335.
Gautraud, Michael G., and Huck. 3,018,104.
Huch, William F., to United States of America, Navy. Balloon load harness. 3,023,982, 3–6–62, Cl. 244—31.
Huch, William F., E. P. Ney, and J. R. Winckler, to United States of America, Navy. Balloon and method of manufacturing the same. 3,047,252, 7–31–62, Cl. 244—31.
Huch, William F., and E. P. Ney, to United States of America, Navy. Air sampling system. 3,063,296, 11–13–62, Cl. 73—421.5.
Huck, Alfred J., to Knapp-Monarch Co. Jug closure. Re. 25,146, 3–27–62, Cl. 215—13.
Huck, Alfred J., to Knapp-Monarch Co. Speed controls for electric motors. 3,024,432, 3–6–62, Cl. 336—65.
Huck, Alfred J., to Knapp-Monarch Co. Ice crusher. 3,051,401, 8–28–62, Cl. 241—257.
Huck Co. : *See*—
Huck, William F. 3,061,225.
Huck, William F., and Leonard. 3,070,366.
Huck, George E., to American Pipe and Construction Co. Machine for winding wire in making prestressed bevel-end concrete pipe. 3,052,266, 9–4–62, Cl. 138—176.
Huck, George E., to American Pipe and Construction Co. Means for winding wire in making prestressed bevel-end concrete pipe. 3,052,419, 9–4–62, Cl. 242—7.
Huck Mfg. Co. : *See*—
Armour, Charles B. 3,066,568.
Baugh, Charles W., and Wehlann. 3,029,665.
Brilmyer, Harold G. 3,057,246.
Brilmyer, Harold G. 3,063,148.
Brilmyer, Harold G., and Wehlann. 3,025,730.
Van Hecke, George J. 3,028,987.
Van Hecke, George J. 3,042,244.
Van Hecke, George J. 3,052,099.
Huck, William F., to W. F. Huck, d.b.a. Huck Co. Unwind and rewind web tension control. 3,061,225, 10–30–62, Cl. 242—75.1.
Huck, William F., and G. H. Leonard, to W. F. Huck d.b.a. Huck Co. Record processing machine. 3,070,366, 12–25–62, Cl. 271—10.
Huckabay, William B. : *See*—
Cochran, Kenneth W., and Huckabay. 3,029,382.
Huckabee, Luther H. Burner for boilers and the like. 3,048,215, 8–7–62, Cl. 158—113.

Huckins, Alvin E. Separating and counting machine. 3,032,-162, 5–1–62, Cl. 194—9.

Huckstadt, Robert F. : *See—*
Cleary, Robert T., Burns, and Huckstadt. 3,028,452.

Hudak, Robert G. : *See—*
Wansky, Morris H., Hudak, and Mitchin. 3,032,647.

Hudak, Stephen B., W. C. Leslie, and R. L. Rickett, to United States Steel Corp. Method of improving impact resistance of mild steel. 3,062,693, 11–6–62, Cl. 148—134.

Huddle, Harley E. Method and apparatus for cleaning bottle cases and the like. 3,018,200, 1–23–62, Cl. 134—6.

Huddleston, Richard H., Jr., to Halliburton Co. Means and techniques for indicating the ratio of two variables or the reciprocal of one variable. 3 022,489, 2–20–62, Cl. 340—15.

Huddleston, Richard H., Jr., to Halliburton Co. Measuring system. 3,024,658, 3–13–62, Cl. 73—362.

Huddleston, Richard H., Jr., F. R. Bravenec, and E. Eszlinger, to Halliburton Co. Well logging system. 3,065,407, 11–20–62, Cl. 324—6.

Hudes, Ellis : *See—*
Tannenbaum, Wesley, Hudes, and Goldstein. 3,027,425.

Hudnall, Charles P., Jr., to Marmon-Herrington Co., Inc. Face drill. 3,028,922, 4–10–62, Cl. 175—117.

Hudock, Edward, to Collins Radio Co. Sheet type balanced doublet antenna structure. 3,036,302, 5–22–62, Cl. 343—767.

Hudson, Arthur : *See—*
Johnston, Peter W. G., and Hudson. 3,039,404.

Hudson, Bert T., to Westinghouse Electric Corp. Driving mechanism. 3,052,805, 9–4–62, Cl. 310—104.

Hudson, Charles N. : *See—*
Kirkamp, Donald L., and Hudson. 3,055,822.

Hudson, Edwin B., to Armco Steel Corp. Method and means for high capacity direct casting of molten metal. 3,038,-219, 6–12–62, Cl. 22—57.5.

Hudson, Edwin B., to Armco Steel Corp. Apparatus and method for the direct casting of metal. 3,040,396, 6–26–62, Cl. 22—57.3.

Hudson, Edwin B., to Armco Steel Corp. Porous oxygen lance. 3,045,997, 7–24–62, Cl. 266—34.

Hudson Engineering Corp. : *See—*
Davidson, Eugene M. 3,038,543.
Petty, Macon. 3,053,722.

Hudson Fixtures, Inc. : *See—*
Ferrett, Baptiste. 3,052,000.

Hudson, Frank and R. W. Lifeboat launching device. 3,032,786, 5–8–62, Cl. 9—41.

Hudson, George A, to Mobay Chemical Co. Coating polycarbonate plastics. 3,069,287, 12–18–62, Cl. 117—47.

Hudson, Gilford D., and F. D. Sayger, to Da-Lite Screen Co., Inc. Portable viewing screen handle and lock therefor. 3,033,599, 5–8–62, Cl. 287—58.

Hudson, H. D., Mfg. Co. : *See—*
Hudson, Robert C., Pinke, and Meeker. 3,023,969.
Pinke, August H., and Oys. 3,018,927.

Hudson, Harold P. : *See—*
Beaman, Norman V., Hudson, and Gauss. 3,046,812.

Hudson, Harold R., to Molectronics Corp. Motor-potentiometer assembly. 3,047,751, 7–31–62, Cl. 310—72.

Hudson, James F. : *See—*
Andrews, Ladimer J., Edwards, and Hudson. 3,040,986.
Edwards, Walter G., Hudson, and Klein. 3,042,305.
Glaser, Peter S., Hudson, Edwards, and Porter. 3,040,985.

Hudson, James W. and E. J. King, to Square D Co. Junction box for underfloor wiring system. 3,029,964, 4–17–62, Cl. 220—3.4.

Hudson, Kenneth C. : *See—*
Beard, Richard B., and Hudson. 3,019,647.

Hudson, Lena M., to Bausch & Lomb Inc. Photographic objective. 3,064,533, 11–20–62, Cl. 88—57.

Hudson, Paul C. : *See—*
Koomey, Paul C. and Hudson. 3,028,881.

Hudson, Paul S. : *See—*
Cobb, Raymond L., and Hudson. 3,050,482.
Pritchard, James E., Hutchinson, and Hudson. 3,053,-782.

Hudson, Paul S., to Phillips Petroleum Co. Solid propellant. 3,050,423 8–21–62, Cl. 149—19.

Hudson, Percy W. Method of purifying and spherifying copper powder. 3,036,938, 5–29–62, Cl. 148—13.2.

Hudson Pulp & Paper Corp. : *See—*
Atwood, Lamar T. 3,053,434.
Atwood, Lamar T., and Taylor. 3,054,442.
Cummings, Raymond P. 3,063,347.
Mossor, George W. 3,021,766.
Mossor, George W. 3,053,150.
Pearlman, Jack. 3,060,719.

Hudson, Raymond A. Liquid seal for movable members. 3,031,198, 4–24–62, Cl. 286—11.

Hudson, Raymond A., and J. Van Veen, to Chicago Rawhide Mfg. Co. Gap seal. 3,038,733, 6–12–62, Cl. 277—157.

Hudson, Robert C., A. H. Pinke, and K. H. Meeker, to H. D. Hudson Mfg. Co. Mobile spraying device. 3,023,969, 3–6–62, Cl. 239—146.

Hudson, Robert F. : *See—*
Timmis, Goeffrey M., Hudson, Marshall, and Bierman. 3,041,241.

Hudson, Robert L. Scarfing attachment for the finishing of roughcut scarf joints in dimension lumber. 3,063,482, 11–13–62, Cl. 144—127.

Hudson, Robert L., to The Dow Chemical Co. Heat stable polymeric compositions. 3,067,165, 12–4–62, Cl. 260—45.8.

Hudson, Robert M. : *See—*
Crombie, John N., and Hudson. 3,030,240.

Hudson, Rollin W. : *See—*
Stevens, Richard L. 3,020,909.

Hudson, Russell W. : *See—*
Hudson, Frank and R. W. 3,032,786.

Hudson, Vincent L. : *See—*
Bakelaar, John H., and Hudson. 3,041,069.

Hudson's Bay Oil and Gas Co. Ltd. : *See—*
Whiteside, Foster C. 3,040,558.

Hudspeth, Thomas, and H. A. Rosen, to Hughes Aircraft Co. Satellite communication relay system utilizing modulation conversion. 3,028,488, 4–3–62, Cl. 250—15.

Huebler, Jack : *See—*
Beggs, Donald, Huebler, Sabin, Scarlett, and Turin. 3,021,230.

Huebler, Jack, C. Cone, W. H. Dailey, Jr., and J. D. Nesbitt, to Midland-Ross Corp. Direct fired bell annealer. 3,024,-015, 3–6–62, Cl. 263—40.

Huebner, Charles F., to Ciba Pharmaceutical Products, Inc. New quaternary N-(substituted-aminoalkyl)-tetrachloroisoindolines. 3,025,294, 3–13–62, Cl. 260—247.5.

Huebner, Charles F., to Ciba Pharmaceutical Products, Inc. New phthalimides and methods for their preparation. 3,025,300, 3–13–62, Cl. 260—294.

Huebner, Charles F., to Pharmaceutical Products, Inc. Isoindolines. 3,031,458, 4–24–62, Cl. 260—319.

Huebner, Charles F. to Ciba Pharmaceutical Products, Inc. Imides. 3,031,459, 4–24–62, Cl. 260—326.

Huebner, Charles F., to Ciba Corp. Certain esters of certain alpha-(pyridyl methyl), alpha-phenyl, 3-tert-amino-propanols and related compounds. 3,036,082, 5–22–62, Cl. 260—295.

Huebner, Charles F., to Ciba Corp. Process for preparing certain indene compounds. 3,036,085, 5–22–62, Cl. 260—296.

Huebner, Charles F., to Ciba Corp. Certain 3-[(2-pyridyl)-lower alkyl]-2-(tert-amino-lower alkyl)-indenes and related compounds. 3,060,186, 10–23–62, Cl. 260—295.

Huebner, Charles H., to General Motors Corp. Retainer. 3,050,578, 8–21–62. Cl. 174—40.

Huebner, Edward J., to United States of America, Air Force. Glass roving spray gun. 3,016,609, 1–16–62, Cl. 30—240.

Huebner, William F. Printing press plate treating apparatus. 3,025,789, 3–20–62, Cl. 101—147.

Huebner, William C. Oxide image printing plate. 3,070,008, 12–25–62, Cl. 101—149.2.

Huebsch, Donald L. : *See—*
Curreton, Warren D., Ford, Huebsch, and Skudre. 3,052,-767.

Huebschle, Carl H. : *See—*
Huntley, Allan R., and Huebschle. 3,053,642.

Huebschmann, Eugene C., to United States of America, Air Force. Transistor type accelerometer. 3,016,752, 1–16–62, Cl. 73—517.

Huelsbeck, Frank H. : *See—*
Anness, Russell W., and Huelsbeck. 3,027,815.

Huelster, Otto J., to Scovill Mfg. Co. Lock slider for zipper fastener. 3,018,534, 1–30–62, Cl. 24—205.14.

Huenig, Siegfried, to Badische Anilin- & Soda-Fabrik Aktiengeselishaft. Production of dyestuffs. 3,043,828, 7–10–62, Cl. 260—158.

Huening, Walter C., Jr., to General Electric Co. Vacuum cleaner with floating floor nozzle latch mechanism. 3,031,-710, 5–1–62, Cl. 15—359.

Huet, Andre. Marine boiler exhibiting small variations of level. 3,018,764, 1–30–62, Cl. 122—34.

Huet, André, to Combustion Engineering, Inc. Machine for the manufacture of tube necks on headers. 3,022,811, 2–27–62, Cl. 153—2.

Huet, André. Articulated system for control of assembly of fuel rods and neutron reflector panels. 3,026,258, 3–20–62, Cl. 204—193.2.

Huet, André. Manufacture of tubular elements. 3,030,902, 4–24–62, Cl. 113—49.

Huet, André. Machine for manufacturing coupling-collars. 3,031,005, 4–24–62, Cl. 153—21.

Huet, André. Light heat exchangers for use in nuclear energy installations. 3,049,107, 8–14–62, Cl. 122—510.

Huet, Andre. Boiling liquid type nuclear reactor. 3,063,925, 11–13–62, Cl. 204—193.2.

Huet, Andre. Simple boiler installation. 3,067,729, 12–11–62, Cl. 122—333.

Huet, André. Feed water arrangements for marine boilers. 3,070,077, 12–25–62, Cl. 122—451.

Huet, André. Control apparatus for nuclear reactor. 3,070,-531, 12–25–62, Cl. 204—193.2.

Huet, Edward C., to L. A. Darling Co. Adjustable shelf support. 3,018,900, 1–30–62, Cl. 211—148.

Huet, George O., to Higgins, Inc. Boat bottom. 3,040,687, 6–26–62, Cl. 114—56.

Huet, Raymond J., to United States Steel Corp. Method of drawing wire and a lubricant therefor. 3,021,941, 2–20–62, Cl. 205—21.

Huetten, Clarence, to P. R. Mallory & Co., Inc. Miniature relay. 3,017,474, 1–16–62, Cl. 200—93.

Huetten, Clarence, to P. R. Mallory & Co., Inc. Thermomagnetic contact device. 3,057,978, 10–9–62, Cl. 200—88.

Huetten, Clarence, F. C. Smith, and P. L. Rogers, Jr., to United States of America, Army. Subminiature rotary switch. 3,030,460, 4–17–62, Cl. 200—11.

Huetter, Will, to H. and A. van Huellen, d.b.a. Niederrheinische Maschinenfabrik, Becker & van Huellen. Hydraulic presses. 3,034,425, 5–15–62, Cl. 100—214.

Huettner, Lothar A., to Dynamic Engineering Corp. Rotary hot water and steam generator. 3,051,144, 8–28–62, Cl. 122—11.

Huff, John, to L. A. Welt. Furniture structure with interdependently connected parts. 3,062,382, 11–6–62, Cl. 211—134.

Huff, John, to L. A. Welt. Furniture leg positioning and mounting assembly. 3,063,765, 11–13–62, Cl. 311—114.

Huff, John B., to United States of America, Atomic Energy Commission. Separation apparatus. 3,025,143, 3–13–62, Cl. 23—277.

Huff, John V., to General Motors Corp. Brake and throttle hydraulic control. 3,031,051, 4–24–62, Cl. 192—3.

Huff, Joseph F., and R. H. Roethlisberger, to American Radiator & Standard Sanitary Corp. Sensitivity adjustment. 3,040 279, 6–19–62, Cl. 336—30.

Huff, Norman M., to Harper-Wyman Co. Thermostatic gas valve. 3,030,025, 4–17–62, Cl. 236—99.

Huff, O. C., and N. C. Stanley, to Texaco Inc. Apparatus for removing heat exchanger tube bundles. 3,048,280, 8–7–62, Cl. 214—1.

Huff, O. C., and N. C. Stanley, to Texaco Inc. Cradle for handling cylindrical objects. 3,055,695, 9–25–62, Cl. 294—67.

Huff, Russell C., Sr. Bilge pump. 3,062,152, 11–6–62, Cl. 103—148.

Huff, Warren M., Jr. Fire door. 3,051,281, 8–28–62, Cl. 189—47.

Huffman, Clarence W., to International Minerals & Chemical Corp. Production of sodium isoascorbate monohydrate. 3,064,010, 11–13–62, Cl. 260—343.7.

Huffman, Clarence W., to International Minerals & Chemical Corp. Chlorine-containing aromatics. 3,068,298, 12–11–62, Cl. 260—651.

Huffman, Harold W., to The Hamilton Tool Co. Flexible, multiple continuous, pull-part form and method of making same. 3,066,957, 12–4–62, Cl. 282—11.5.

Huffman, Hazel Y.: *See*—
Huffman, Russell L. 3,032,060.
Huffman, Russell L., and Maholm. 3,027,915.

Huffman, J Lauton, and J. R. Williams, to United States of America, Army. Continuity ring. 3,065,380, 11–20–62, Cl. 317—2

Huffman, John W., to Pace, Inc. Thermoresponsive switch mechanism. 3 051,807, 8–28–62. Cl. 200—187.

Huffman, Joseph G., and C. C. Moore, to Union Oil Co. of California. Chassis dynamometer. 3,057,192, 10–9–62, Cl. 73—117.

Huffman, Levi D., and L. L. Reed, to Union Steel Products Co. Utility carts with multiple pivoted load supports. 3,052,484, 9–4–62, Cl. 280—36.

Huffman, Max N., to Lasdon Foundation, Inc. 16-oxygenated androstane, 5-androstene and 1,3,5,(10)-estratriene esters. 3,053 863, 9–11–62, Cl. 260—397.5.

Huffman, Max N., to Lasdon Foundation, Inc. Method for the preparation of 16-keto steroids. 3,058,999, 10–16–62, Cl. 260—397.4.

Huffman, Max N., to Lasdon Foundation, Inc. 4-androsten-3β,16β,17β-triol and esters thereof. 3,060,203, 10–23–62, Cl. 260—397.5.

Huffman, Max N., to Lasdon Foundation, Inc. Production of 17 beta-alkyl ethers of 16-keto-17 beta-hydroxy steroids. 3,067,215, 12–4–62, Cl. 260—397.4.

Huffman, Mervin C., to Gardner-Denver Co. Fluid operated percussion drill. 3,045,768, 7–24–62, Cl. 175—100.

Huffman, Robert L., to Automatic Electric Laboratories, Inc. Automatic pulse generator for a telephone system. 3,060,-276, 10–23–62, Cl. 179—90.

Huffman, Russell L., deceased, by H. Y. Huffman, executrix, to Knapp-Monarch Co. High-low pressure relief valve for flotation gear. 3,032,060, 5–1–62, Cl. 137—516.15.

Huffman, Russell L., deceased (by H. Y. Huffman, executor), and K. C. Maholm, to Knapp-Monarch Co. Relief valve for inflatable devices. 3,027,915, 4–3–62, Cl. 137—516.15.

Huffman, Warren C.: *See*—
Soehl, John, and Huffman. 3,017 045.

Huffman, William A. H., to The Chemstrand Corp. Polyesters prepared from a mixture of aromatic and specific saturated aliphatic dibasic acid or ester derivatives thereof condensed with a glycol and a process for preparing same. 3,025,266, 3–13–62, Cl. 260—75.

Huffman, William A. H., to The Chemstrand Corp. Polyesters modified with difunctional sulfonramatic compound, chain terminating agents, and chain branching agents, and process for producing same. 3,033,824, 5–8–62, Cl. 260—75.

Huffman William A. H., to Monsanto Chemical Co. Interpolyamides and process for preparing same. 3,039,990, 6–19–62, Cl. 260—42.

Hufford Corp., The: *See*—
Wheeler, Walter G., and Wendell. 3,018 817.

Hufford, Dennis F. Coaster wagon. 3,069,182, 12–18–62, Cl. 280—87.1.

Hug, Andre: *See*—
Beyner, Andre, Meister, and Hug. 3,056,253.

Hug, Hans, to Aluminium-Industrie-Aktien-Gesellschaft. Method for producing composite bodies of aluminum and sintered aluminum powder. 3,065,073, 11–20–62, Cl. 75—208.

Hug, Hans A.: *See*—
Davin, Joseph M., and Hug. 3,043,149.

Hug, Richard C.: *See*—
Bucher, Lawrence E., Hug, and Eastin. 3,028,992.
Rhodes, James L., and Hug. 3,036,743.

Hug, Theodore, to Arthur H. Thomas Co. Hot plate and magnetic stirrer. 3,028,476, 4–3–62, Cl. 219—43.

Hugel, Georges, and M. Lerer, to Institut Francais du Petrole des Carburantes et Lubrifiants. Molybdenum blue complexes. 3,050,538, 8–21–62, Cl. 260—429.

Hügel, Helmut, to Gutehoffnungshutte Sterkrade Aktiengesellschaft, Firma. Pressure meters for drill bores and the like. 3,051,004, 8–28–62, Cl. 73—395.

Hugel, Robert, and A. Pasetti, to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Preparation of aliphatic-N-chloro-N-alkyl-amines. 3,022,346, 2–20–62, Cl. 260—561.

Hugenholtz, Eduard H., to North American Philips Co., Inc. Gated phase lock frequency control system. 3,030,588, 4–17–62, Cl. 331—26.

Huggins, Homer D., J. D. Morse, and H. H. Dolister, to Modine Mfg. Co. Staggered serpentine structure for heat exchanges and method and means for making the same. 3,045,979, 7–24–62, Cl. 257—130.

Huggins, James E., Jr. Connector bracket. 3,024.878, 3–13–62, Cl. 189—36.

Hughes Aircraft Co.: *See*—
Armstrong, Philip N. 3,047,844.
Baber, Thompson, and Gelb. 3,027,481.
Bariffi, Herbert F. 3,020,367.
Begovich, Nicholas A. 3,046,547.
Begovich, Nicholas A., and Ehenstein. 3,017,630.
Beintema, Chester D. 3,061,755.
Bender, Bob G. 3,036,250.
Berry, John E. 3 058,440.
Bickmore, Robert W. 3,039,098.
Birdsall, Charles K., and G. R. Brewer. 3,068,377.
Blasberg, Lawrence A., Perry, and Saltzman. 3,022,475.
Bosberg, Lawrence A., and Young. 3,041,554.
Bloom, Murray. 3,052,658.
Broadbent, Kent D. 3,046,532.
Broadbent, Kent D. 3,068,453.
Brookshire, Robert R. 3,046,159.
Carroll, George R. 3,020,493.
Ciechetti, John B., and Kliger. 3,028,597.
Clenard, Alfred E., Hawley, and Klein. 3,039,951.
Curtis, Daniel L. 3,039,084.
De Jong, Arthur E. 3,054,068.
Dill, Johann G. 3,017,519.
Dow, Frank W. 3,057,812.
Farnsworth, Robert P. 3,040,183.
Fogel, Robert L., and Suyematsu. 3,048,801.
Foley, Francis D., Jr. 3,061,528.
Frank, Russell C. 3,056,371.
Friedland, Stephen S., Maurer, and Wiggins. 3,043,955.
Gluth, Norman P. 3,042,800.
Goebels, Frank J., Jr., and Kelly. 3,022,506.
Goodwin, Francis E. 3,026,454.
Goodwin, Francis E., and Sur. 3,041,605.
Grabowski, Kenneth P. 3,068,422.
Grabowski, Kenneth P., and Sensiper. 3,048,800.
Grillon, August B., Holland, Pope, and Steigleder. 3,045,619.
Gudmundsen, Richard A. 3 040,197.
Haberland, Ernest R. 3,038,140.
Hance, Harold V., and Martin. 3,026,514.
Hannum, Arthur J. 3,037,568.
Hansen, Jay M. 3,034.068.
Hansen, Jay M., and Atamian. 3,022,494.
Hansen, Robert C. 3,029.432.
Hansen, Siegfried. 3,048,352.
Hesse, Kenneth R., and Vaezy. 3,032,673.
Holcomb, Don R. 3,060,364.
Holcomb, Don R., and Hildreth. 3,030.582.
Hudspeth, Thomas, and Rosen. 3,028,488.
Hughes, Willard A. 3,063,027.
Hughes, Willard A. 3,063,029.
Hulett, Henry R. 3,053 984.
Hurley, Karl C. 3,028,445.
Jack, Milton K., and Wierman. 3,052,634.
Jaffe, Richard M. 3,059,187.
Jamison, Richard S., and Rosen. 3,042,882.
Johnson, Robert R. 3,030,581.
Jones, Sheldon. 3,035,230.
Jongbloed-Unterhorst, Hans. 3,050 358.
Kelling, Harmon H., and Okubo. 3,068,430.
Kelly, Kenneth C. 3,018,479.
Kelly, Kenneth C. 3,063,049.
Koda, Nobuo J., Smith, Corderman, and Rodgers. Re. 25,221.
Kurtz, Louis A. 3,026,513.
Lader, Leon J., and Proud. 3,035,263.
Lewis, Kenneth E. 3,059,567.
Losee, Ferril A. 3,020,483.
Losee, Ferril A. 3,028,487.
Losse, Ferril A., and Hannum. 3,027,543.
Lundstrom, Oscar C., and Yee. 3,042,886.
May, Michael, and Curtis. 3,026,500.
Murray, Donald W. 3,067,393.
Mytton, Robert W., and Stello. 3,041,690.
Nevins John E Jr. 3,066,237.
Payton, James Y., and Larson. 3,054,907.
Pennington, Philip R. 3,041,226.
Rogers, James G. 3,025,433.

Hughes Aircraft Co. : *See*—Continued
Rowen, John W., and Rust. 3,057,754.
Ruppright, Siegfried. 3,033,440.
Rust, John B., and Takimoto. 3,057,822.
Rust, John B., and Takimoto. 3,061,587.
Scarpa, Jerry E. 3,035,138.
Schanbacher, William A. 3,048,803.
Strumwasser, Eric, and Van Atta. 3,039,097.
Sullivan, James L. 3,037,392.
Taddeo, Fausto V. 3,040,238.
Thaler, Samuel. 3,057,995.
Todd, Carl D. 3,060,348.
Turner, Ralph L., Jr. 3,027,417
Tyler, Vernal M. 3,045,623.
Uebele, George S., and Silence. 3,038,131.
Van Atta, Lester C. 3,063,025.
Van Atta, Lester C., and Cleary. 3,042,914.
Wood, John G. 3,057,200.

Hughes, Albert L., to American Metal Products Co. Motor-operated reclining chair. 3,016,264, 1–9–62, Cl. 297—69.

Hughes, Allan B., and S. A. Rogers, to E. I. du Pont de Nemours and Co. Builder motion. 3,042,325, 7–3–62, Cl. 242—20.3.

Hughes, Alvin W. Method of bleeding slaughtered animals. 3,031,716, 5–1–62, Cl. 17—45.

Hughes, Arthur J. : *See*—
Koch, Paul H., and Hughes. 3,033,177.

Hughes, Billy C., to United States of America, National Aeronautics and Space Administration. Air bearing. 3,070,407, 12–25–62, Cl. 308—9.

Hughes, Charles E. : *See*—
Haines, Edward M., and Hughes. 3,017,162.

Hughes, Curtis W. Instrument panel structure for sky divers. 3,026,072, 3–20–62, Cl. 244—148.

Hughes, David L. : *See*—
Gibbons, Richard F., and Hughes. 3,041,419.

Hughes, David W. Eaves trough screen attachment. 3,023,-544, 3–6–62, Cl. 50—5.

Hughes, Donald G., to Continental Can Co., Inc. Roll type glue applicator for carton machine. 3,052,210, 9–4–62, Cl. 118—238.

Hughes, Ed. Fastener. 3,036,487, 5–29–62, Cl. 85—7.

Hughes, Edgar S., to General Motors Corp. Centrifugal governor. 3,053,097, 9–11–62 Cl. 73—551.

Hughes, Edgard, to Les Appareils de Precision "Kinoptik." Photographic objectives having a large angular field. 3,037,426, 6–5–62, Cl. 88—57.

Hughes, Everett C. : *See*—
Kay, Philip S. Hook. Hughes, and Liao. 3,031,280.

Hughes, F. A., & Co., Ltd. : *See*—
Waite, William G., Varvill, Palmer, and Tait. 3,069,336.

Hughes, George C., to Reynolds Gas Regulator Co. Fluid pressure distributing system. 3,023,093, 2–27–62, Cl. 48—191.

Hughes, George E. Braking and retarding apparatus. 3,033,-322, 5–8–62, Cl. 188—91.

Hughes, George M. K. : *See*—
Hess, Hans-Jurgen E., Figdor, Hughes, and Moreland. 3,042,691.
Hess, Hans-Jurgen E., Hughes, and Laubach. 3,047,504.

Hughes, Herbert D., R. W. Lewis, and A. H. Partridge, to Metachemical Processes Ltd. Electric primary cells. 3,026,365, 3–20–62, Cl. 136—100.

Hughes, Jesse E. : *See*—
Davis, Clyde O., and Hughes. 3,053,707.

Hughes, Jesse E., L. E. Layton, R. Lozier, and E. J. Nolan, to E. I. du Pont de Nemours and Co. Inorganic nitrates 3,047,440, 7–31–62, Cl. 149—8.

Hughes, John A. Fish skinning saw. 3,019,474, 2–6–62, Cl. 17—7.

Hughes, John D. H., to United Kingdom Atomic Energy Authority. Light source. 3,026,436, 3–20–62, Cl. 313—54.

Hughes, Norman J., to United-Carr Fastener Corp. Method of skiving a T-nut. 3,021,537, 2–20–62, Cl. 10—86.

Hughes, Paul R. : *See*—
Klank, Walter C., Jr., and Hughes. 3,016,912.

Hughes, Paul R., to United Aircraft Products, Inc. Cooled mounting plate for electronic equipment. 3,048,374, 8–7–62, Cl. 257—256.

Hughes, Philip G., to General Electric Co. Automatic washing machine having means to cool the wash water prior to the centrifuging operation. 3,055,202, 9–25–62, Cl. 68—12.

Hughes, Philip G., and D. P. Lawrence, to General Electric Co. Automatic washing machine with lid switch control. 3,024,637, 3–13–62. Cl. 68—12.

Hughes, Ray C., and R. C. Sweet, to Consolidated Electronics Industries Corp. Electrical resistor unit. 3,023,389. 2–27–62, Cl. 338—237.

Hughes, Robert E. : *See*—
Kudera, Joseph A., Jr., and Hughes. 3,024,550.

Hughes, Robert S., and J. A. Sheehan. Form setting devices for cement sidewalk and driveway forms. 3,016,225, 1–9–62, Cl. 249—230.

Hughes, Robert W., to International Telephone and Telegraph Corp. Repeater station for a bidirectional communication system. 3,040,130, 6–19–62, Cl. 178—71.

Hughes, Roderick F., and B. Smith, to Samuel Osborn & Co. Ltd. Chuck for lathes, drills and the like. 3,028,168, 4–3–62, Cl. 279—57.

Hughes, Roger C., to MacMillan Bloedel and Powell River Ltd. Apparatus for forming mats of oriented slivers. 3,040,801, 6–26–62, Cl. 156—369.

Hughes, Roland L. : *See*—
Hansen, Charles E., and Hughes. 3,042,704.

Hughes, Stanley G., to General Electric Co. Digital timers. 3,035,190, 5–15–62, Cl. 307—141.4.

Hughes, Thomas A., to Johns-Manville Corp. Reinforced fibrous batt. 3,048,513, 8–7–62, Cl. 156—31.

Hughes Tool Co. : *See*—
Stockard, Jesse L., Jr. 3,061,025.

Hughes, Vincent L. : *See*—
Bartlett, Jeffrey H., and Hughes. 3,057,815.

Hughes, Willard A., to Hughes Aircraft Co. High power microwave isolator. 3,063,027, 11–6–62, Cl. 333—24.

Hughes, Willard A., to Hughes Aircraft Co. Ferroresonant microwave. 3,063,029, 11–6–62, Cl. 333—81.

Hughes, William : *See*—
Strain, Franklin, Wilson, Dietz, Hughes, and Arkless. 3,068,118.

Hughes, William. Oxygen dispenser. 3,019,788, 2–6–62, Cl. 128—203.

Hughes, William, to British Titan Products Co. Ltd. Process for improving titanium dioxide pigments. 3,036,926, 5–29–62, Cl. 106—300.

Hughes, William, and A. W. Evans, to British Titan Products Co. Ltd. Production of zirconium and hafnium oxides in a fluidized bed. 3,043,656, 7–10–62, Cl. 23—140.

Hughes, William, and A. W. Evans, to British Titan Products Co. Ltd. Production of metal oxides. 3,043,657, 7–10–62, Cl. 23—142.

Hughes, William, A. W. Evans, and B. Harris, to British Titan Products Co. Ltd. Process for the production of purified silicon dioxide. 3,043,659, 7–10–62, Cl. 23—182.

Hughes, William, and A. W. Evans, to British Titan Products Co. Ltd. Production of silicon dioxide. 3,043,660, 7–10–62, Cl. 23—182.

Hughes, William J. Die set aligning and guide means. 3,029,110, 4–10–62, Cl. 308—6.

Hughes, William, and K. Arkless, to British Titan Products Co. Ltd. Process for reducing the acidity of oxides. 3,060,-001, 10–23–62. Cl. 23—202.

Hughes, William B., to Petrolite Corp. Derivatives of pyrimidine and imidazoline. 3,024,236, 3–6–62, Cl. 260—256.4.

Hughes, William B., to Petrolite Corp. Process of reducing bacterial growth in water flooding and water disposal systems. 3,039 959, 6–19–62, Cl. 252—8.55.

Hughes, William B., to Petrolite Corp. Prevention of corrosion in systems containing a corrosive aqueous medium. 3,042,609, 7–3–62, Cl. 252—8.55.

Hughes, William B., and V. L. Stromberg, to Petrolite Corp. Process of inhibiting corrosion. 3,017,352, 1–16–62, Cl. 252—8.55.

Hughes, William B., and V. L. Stromberg, to Petrolite Corp. Process of inhibiting corrosion. 3,017,356, 1–16–62, Cl. 252—8.55.

Hughes, William B., and V. L. Stromberg, to Petrolite Corp. Process of preventing corrosion. 3,018,246, 1–23–62, Cl. 252—8.55.

Hughes, William B., and V. L. Stromberg, to Petrolite Corp. Cyclic amidines. 3,020 276, 2–6–62. Cl. 260—256.4.

Hughes, William L. Cutting and sealing apparatus. 3,028,-795, 4–10–62, Cl. 93—1.

Hughes, William L., to Iowa State College Research Foundation, Inc. Field sequential color signal combined with continuous brightness signal. 3,048,653, 8–7–62, Cl. 178—5.4.

Hughes, William R. : *See*—
Lehan, Frank W., and Hughes. 3,036,210.

Hughey, George B., to Monsanto Chemical Co. Apparatus for producing twisted filament yarn. 3,067,461, 12–11–62, Cl. 18—8.

Hughey & Phillips, Inc. : *See*—
Knudson, Clarence B. 3,046,448.

Hughey, Vira. Fire alarm sticker. 3,016,872, 1–16–62, Cl. 116—106.

Huglin, Raymond E. Cable sheath cutter. 3,025,597, 3–20–62, Cl. 30—91.

Hugon, Pierre, to Compagnie Generale de Telegraphie Sans Fil. Radio aids to navigation. 3,024,462, 3–6–62, Cl. 343—105.

Huhn, James S. F., and F. J. Sheets, to Union Carbide Corp. Stabilized vinyl resin compositions. 3,061,583, 10–30–62, Cl. 260—45.7.

Huising, Wilhelmus B., H. H. P. Mocken, and D. Nonhebel, to North American Philips Co., Inc. Process for isolating radio-active iodine 131. 3,053 644, 9–11–62, Cl. 23—294.

Huisman, Henderikus O., and J. Meltzer, to North American Philips Co., Inc. Method of killing insects employing N-dimethyl naphthyl-carbamate. 3,027,298, 3–27–62, Cl. 167—32.

Huisman, Henderikus O., and A. Smit, to North American Philips Co., Inc. Synthesis of vitamin A. 3,056,834, 10–2–62, Cl. 260—544.

Huitt, Jimmie L., B. B. McGlothlin, and J. Papaila, to Gulf Research & Development Co. Propping agent for a fracturing process. 3,026,938, 3–27–62, Cl. 166—42.

Huitt, Jimmie L., J. L. Pekarek, and E. Topanelian, Jr., to Gulf Research & Development Co. Formation notching apparatus. 3,050,122, 8–21–62. Cl. 166—55 8.

Huitt, Jimmie L., J. L., Pekarek, and A. J. Teplitz, to Gulf Research & Development Co. Apparatus for fracturing a formation. 3,062,294, 11–6–62, Cl. 166—177.

Huizing, Albert: *See*—
Van Daal, Hubert J., Knippenberg, and Huizing. 3,047,-439.
Hujsak, Karol L.: *See*—
Grekel, Howard, and Hujsak. 3,057,698.
Hukee, Russell E., to North American Aviation, Inc. Temperature control servo system. 3,040,157, 6–19–62, Cl. 219—20.
Hukee, Russell, E., to North American Aviation, Inc. Frequency control circuit for a crystal oscillator. 3,040,272, 6–19–62, Cl. 331—154.
Hukee, Russell E., and L. H. Dunklee, to North American Aviation, Inc. Phase controlled servo system. 3,051,815, 8–28–62, Cl. 219—20.
Hukill, Harry E.: *See*—
Beckner, Herman L., and Hukill. 3,050,878.
Hukki, Risto T., to Insinooritomisto-Engineering Bureau R. T. Hukki. Method and apparatus for grinding material to a fine degree. 3,056,561, 10–2–62, Cl. 241—26.
Hukki, Risto T., to Insinooritolmisto-Engineering Bureau R. T. Hukki. Apparatus for wet sizing of solid materials. 3,064,806, 11–20–62, Cl. 209—17.
Hulbert, Warren D.: *See*—
Bourns, Marlan E., Hardison, and Hulbert. 3 051,921.
Hardison, Wilbur T., and Hulbert. 3,018,459.
Hulbert, William P. Combination coat and trouser hanger. 3,017,058, 1–16–62, Cl. 223—91.
Hülck, Karl, and E. Menninger, to J. B. Thomson. Ball type bearing for linear motion. 3,070,405, 12–25–62, Cl. 308—6.
Hulett, Henry R., to Hughes Aircraft Co. Star tracking system. 3,053,984, 9–11–62, Cl. 250—203.
Hull, Clair I. Vertical slat blind. 3,068,938, 12–18–62, Cl. 160—176.
Hull, Dan A.: *See*—
Sinner, Edwin A., and Hull. 3,038,625.
Hull, David C.: *See*—
Blood, Alden E., Hull, and Hagemeyer. 3,062,872.
Hull, Ezekiel H., J. M. Leach, and B. E. Tate, to Chas. Pfizer & Co., Inc. Preparation of polyitaconic acid. 3,055,873, 9–25–62, Cl. 260—78.5.
Hull, George H. Back rests for picture frames. 3,065,943, 11–27–62, Cl. 248—37.
Hull, Henry E., and H. B. Trumbull, to Illinois Tool Works. Container and carrier assembling machine. 3,032,944, 5–8–62, Cl. 53—48.
Hull, Howard L. Lamp socket. 3,056,943, 10–2–62, Cl. 339—99.
Hull, John R., to Selas Corp. of America. Dehydrator. 3,016,636, 1–16–62, Cl. 183—4.1.
Hull, Joseph A., to Unilectron, Inc. Means for taking high speed photographs. 3,041,936, 7–3–62, Cl. 88—61.
Hull, Joseph A., and R. N. Hotchkiss, to Avco Corp. Means for and method of recording time markers. 3,044,068, 7–10–62, Cl. 346—1.
Hull, R. Dell. Combination fishing rod, handle and reel. 3,020,665, 2–13–62, Cl. 43—20.
Hull, R. Dell. Combination fishing rod, handle and reel. 3,020,666, 2–13–62, Cl. 43—20.
Hull, R. Dell. Line pickup means for closed-face spinning reel. 3,041,062, 6–26–62, Cl. 242—84.2.
Hull, R. Dell. Glick means for closed-face spinning reel. 3.050,271, 8–21–62, Cl. 242—84.51.
Hull, R. Dell. Casing for closed-face spinning reel. 3,057,-575, 10–9–62, Cl. 242—84.2.
Hull, R. Dell. Spinning-type fishing reel. 3,059,873, 10–23–62, Cl. 242—84.2.
Hull, Richard L.: *See*—
Giesse, Robert C., Hull, and Harp. 3,069,091.
Hull, Robert E.: *See*—
Wallace, John W., and Hull. 3,045,517.
Wallace, John W., Hull, and Moore. 3,049,036.
Hull, Robert L., and J. R. Fisher, to Parke, Davis & Co. 5,6,7,8-tetrahydro-1-methyl-2-naphthoxyacetic acid esters of hydroxy steroids. 3,051,731, 8–28–62, Cl. 260—397.4.
Hull, Roy, and G. Swain, to Imperial Chemical Industries, Ltd. Tetrahydropyrimidine derivatives. 3,036,073, 5–22–62, Cl. 260—251.
Hull, Walter E. Methods of and means for securing together thermoplastic members. 3,062,695, 11–6–62, Cl. 156—73.
Hullen, Hermann, to Maschinenfabrik Buckau R. Wolf Aktiengesellschaft. Method and apparatus for briquetting coal. 3,022,146, 2–20–62, Cl. 44—13.
Hulley, Richard W., and A. Griffiths, to Rolls-Royce Ltd. Electro-erosion (also called spark machining). 3,056,014, 9–25–62, Cl. 219—69.
Hullinger, Golden E., to Borg-Warner Corp. Remote coupling mechanism. 3,024,051, 3–6–62, Cl. 287—115.
Hulls, Leonard R., to Canadian Westinghouse Co. Ltd. Electromechanical transducer. 3,036,266, 5–22–62, Cl. 324—34.
Hulls, Leonard R., to Canadian Westinghouse Co., Ltd. Material thickness control apparatus. 3,062,078, 11–6–62, Cl. 80—56.
Hulse, Bernard T.: *See*—
Selm, Robert P., and Hulse. 3,027,321.
Hulse, Paul H., and H. Conard. Refrigeration apparatus for truck. 3,057,171, 10–9–62, Cl. 62—239.
Hulsebus, Richard P., to Outboard Marine Corp. Muffled exhaust release for an outboard motor. 3,045,423, 7–24–62, Cl. 60—32.
Hulsebus, Robert L. Basketball practice device. 3,050,304, 8–21–62, Cl. 273—1.5.
Hulsebus, Wilhelm: *See*—
Pospischil, Reginhard, and Hulsebus. 3,064,209.
Hulsen, Hans H.: *See*—
Kiesskalt, Siegfried, Hulsen, and Otters. 3,069,016.
Hulsh, Sheldon L. Squeezable tube dispenser construction. 3,016,561, 1–16–62, Cl. 15—565.
Hulsing, Kenneth L.: *See*—
Hanley, George P., and Hulsing. 3,059,835.
Hoffman, Carl S., and Hulsing. 3,069,926.
Hulsizer, Foster V.: *See*—
Pusch, Walter G., Hendry, and Hulsizer. 3,050,106.
Hulst, George D., to International Telephone and Telegraph Corp. Reflected binary code counter. 3,020,481, 2–6–62, Cl. 328—42.
Hultberg, Carl A., to United States of America, Navy. Transistor power amplifier. 3,068,423, 12–11–62, Cl. 330—14.
Hulten, Richard E., to General Motors Corp. Engine accessory mounting and drive. 3,033,118, 5–8–62, Cl. 103—6.
Hulten, Richard E., and C. J. Miller, to General Motors Corp. Steering wheel stop mechanism. 3,049,938, 8–21–62, Cl. 74—526.
Hulterstrum, Harold D., to Flambeau Plastics Corp. Plastic operator for drapery cord. 3,050,803, 8–28–62, Cl. 24—129.
Hultgren, Arnold P., to Amerline Corp. Manually presettable counting means. 3,061,191, 10–30–62, Cl. 235—117.
Hultgren, William H.: *See*—
Scavuzzo, William J., and Hultgren. 3,022.764.
Hultgren, William H., to Purolator Products, Inc. Pleated paper filter. 3,058,594, 10–16–62, Cl. 210—493.
Hultgren, William H., J. G. Charney, and A. Waluik, to Purolator Products, Inc. Oil filter. 3,069,015, 12–18–62, Cl. 210—232.
Hultkrans, Paul B., to Milprint, Inc. Art of packaging commodities. 3,017,302, 1–16–62, Cl. 154—43.
Hultman, Andrew N. Spiral fish ladder. 3,038,314, 6–12–62, Cl. 61—21.
Hultquist, John V. Combination seat attachment and life preserver. 3,022 524, 2–27–62, Cl. 9—312.
Hultquist, Martin E., to Arapahoe Chemicals, Inc. Method for manufacture of gamma L-glutamyl hydrazide. 3,069,-464, 12–18–62, Cl. 260—534.
Hults, Harold W., to Cutler-Hammer, Inc. Electric switches. 3,035,134, 5–15–62, Cl. 200—67.
Hults, Harold W., to Cutler-Hammer, Inc. Electric switches. 3,041,430, 6–26–62, Cl. 200—168.
Hults, Harold W., to Cutler-Hammer, Inc. Electric switches 3,047,682, 7–31–62, Cl. 200—16.
Humber, Leslie G., and M. Kraml, to American Home Products Corp. Methyl ether of (t)-16,16-difluoroequilin and its preparation. 3,031,468, 4–24–62, Cl. 260—397.4.
Humber, Leslie G., and M. Kraml, to American Home Products Corp Methyl ether of d,l-16,16-difluoroequilenin and its preparation. 3,031,474, 4–24–62, Cl. 260—397.45.
Humbert, Jacques, J. Dubuisson, and C. Morraville, to Commissariat a l'Energie Atomique. Method and apparatus for continuously treating powder compositions such as powder metals. 3,025,156, 3–13–62, Cl. 75—84.1.
Humbert, Kingsley E., Jr., to Wix Corp. Filter structure carrying pressure relief and anti-drain-back valves. 3,061,-101, 10–30–62, Cl. 210—130.
Humbert, Kingsley E., Jr., R. L. Young, and L. M. Hough, to Wix Corp. Couplings. 3,045,928, 7–24–62, Cl. 239—530.
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Humbert, Marvin H. Valve grinding machines. 3,029,564, 4–17–62, Cl. 51—105.
Humbert, Marvin H., to Cedar Rapids Engineering Co. Valve grinding machines. 3,043,058, 7–10–62, Cl. 51—95.
Humbert, Michel, and J. Floriot, to Compagnie Generale de Telegraphie Sans Fil. Manufacture of thermistors. 3,015,-633, 1–2–62, Cl. 252—519.
Humbert, Reuben J. Safety valved pressure caps. 3,062,400, 11–6–62, Cl. 220—44.
Humbert, Wayne E.: *See*—
Zweigle, Maurice L., and Humbert. 3,066,382.
Humble, John A., to The Bendix Corp. Accelerometers. 3,018,664, 1–30–62, Cl. 73—503.
Humble Oil & Refining Co.: *See*—
Love, Robert M., Comeaux, Winegartner, Cornell, and Lewis. 3,041,274.
Humboldt Co., The: *See*—
McIntyre, Maurice J. 3,022.747.
McIntyre, Maurice J. 3,037,465.
McIntyre, Sidney S. 3,032,207.
McIntyre, Sidney S., Sr. 3,032,206.
Humby, Edward T., to Collaro Ltd. Driving mechanisms for sound reproducing apparatus. 3,048,429, 8–7–62, Cl. 287—52.08.
Hume, George W. Sand extractor. 3,045,828, 7–24–62, Cl. 210—112.
Hume, Harold F., and N. Radow, to E. I. du Pont de Nemours and Co. Process of drawing filaments. 3,039,171, 6–19–62, Cl. 28—72.
Hume, Horace D.: *See*—
Scheidenhelm, Earl L. 3,043,076.
Scheidenhelm, Earl L. 3,045,414.
Hume, Horace D. Crop header. 3,058,283, 10–16–62, Cl. 56—23.
Hume, Robert C. M.: *See*—
Rentscher, Roland R., and Hume. 3,045,469.

Hume, Robert L.: *See*—
Nava, Joseph A., and Hume. 3,068,443.
Humel, Josef, to C. Reichert Optische Werke Aktiengesellschaft. Apparatus for microscopic examination. 3,038,374, 6–12–62, Cl. 88—39.
Humes, Karl R.: *See*—
Schwarckopf, Joseph G., and Humes. 3,040,249.
Hummel, Fred E., and P. L. Christianson. Method and composition of matter for sealing openings in well holes. 3,053,764, 9–11–62, Cl. 252—8.5.
Hummel, Harry J.: *See*—
Kelley, Walter A., and Hummel. 3,027,455.
Hummel, Heinz. Apparatus for analysing gaseous or liquid mixtures. 3,031,616, 4–24–62, Cl. 324—61.
Hummel, Heinz. Measuring instrument and method. 3,049,-665, 8–14–62, Cl. 324—36.
Hummel, Henry E., to Potdevin Machine Co. Hot melt adhesive applicator. 3,028,833, 4–10–62, Cl. 118—7.
Hummel, John. Fishing lures. 3,019,544, 2–6–62, Cl. 43—42.41.
Hummel, Louis E., to Nalco Chemical Co. Inhibition of corrosion in return steam condensate lines. 3,029,125, 4–10–62, Cl. 21—2.7.
Hummel, Lynn J., to Allegheny Ludlum Steel Corp. Drawbench gripping mechanism. 3,051,301, 8–28–62, Cl. 205—24.
Hummel, Piero: *See*—
Luthy. Adolf and Hummel. 3,067,490.
Hummers, William S., Jr., to American Metal Climax, Inc. Catalyst for use in converting hydrocarbons. 3,052,739, 9–4–62, Cl. 260—668.
Humpal, Harold H.: *See*—
Martin, Cecil G., and Humpal. 3,043,762.
Humpal, Harold H., to Thompson Ramo Wooldridge Inc. Hermetically sealed power generator. 3,061,733, 10–30–62, Cl. 290—2.
Humphrey, Alfred H., to General Gas Light Co. Method for forming spirally ribbed tubing. 3,015,355, 1–2–62, Cl. 153—78.
Humphrey, Alfred H., and S. M. Loveless, to General Gas Light Co. Diaphragm type valve structure. 3,042,072, 7–3–62, Cl. 137—454.6.
Humphrey, Andrew J., to The Reliance Electric & Engineering Co. Electric motor control system. 3,059,162, 10–16–62, Cl. 318—197.
Humphrey, Frederick H. Reinforced plastic storage tanks and method of making same. 3,025,992, 3–20–62, Cl. 220—5.
Humphrey Frederick H. Apparatus for unloading materials from containers. 3,050,201, 8–21–62, Cl. 214—17.
Humphrey, Leslie F., to Reed Corrugated Cases Ltd. Containers. 3,032,176, 5–1–62, Cl. 206—7.
Humphrey, Leslie F., to Albert E. Reed and Co. Ltd. Cases for containe. 3,054,549, 9–18–62, Cl. 229—14.
Humphrey, Marshall F., and D. A. Bray, to Chas. Pfizer & Co., Inc. Process for purifying lysine. 3,036,125, 5–22–62, Cl. 260—534.
Humphrey, Michael W., D. M. Jones, and H. W. Seyle, to Del Mar Engineering Laboratories. Tow target. 3,065,967, 11–27–62, Cl. 273—105.3.
Humphrey, Robert, to The Pyrene Co. Ltd. Pressure vessels. 3,037,656, 6–5–62, Cl. 220—1.
Humphrey, Robert B.: *See*—
Aweida, Jesse L., and Humphrey. 3,026,419.
Humphrey, Robert P., to General Gas Light Co. Fluid motor with flexible tubular cylinders symmetrically spaced about the power shaft. 3,019,772, 2–6–62, Cl. 121—48.
Humphrey, Robert P., to General Gas Light Co. Fluid pressure pump and motor mechanism. 3,040,665, 6–26–62, Cl. 103—4.
Humphrey, Watts S., Jr., and A. H. Ashley, to Sylvania Electric Products Inc. Memory drive. 3,058,096, 10–9–62, Cl. 340—166.
Humphreys, Charles R., to E. I. du Pont de Nemours and Co. Process for core-spinning smooth elastic yarn. 3,017,740, 1–23–62, Cl. 57—163.
Humphreys, Charles R., to E. I. du Pont de Nemours and Co. Elastic high-bulk yarn. 3,038 295, 6–12–62, Cl. 57—152.
Humphreys, Curtis J., to United States of America, Navy. Sapphire strain tube for microwave excitation. 3,042,-829, 7–3–62, Cl. 313—221.
Humphreys, George W., to Western Electric Co., Inc. Relay assembly. 3,038,975 6–12–62, Cl. 200—87.
Humphreys & Glasgow Ltd.: *See*—
Hartley, Wilfred, Craig, and Sapiro. 3,068,065.
Humphreys, Hanna R., Jr.: *See*—
Lewis, Wallace E., and Humphreys. 3,064,384.
Humphreys, Lisle G., to M. D. Knowlton Co. Machine and method for making helically wound tubing. 3,044,372, 7–17–62, Cl. 93—80.
Humphreys, Robert E., and I. L. Marra. Puncture repair material. 3,049,164, 8–14–62, Cl. 152—370.
Humphreys, Thomas I.: *See*—
Dahl, Ernest A., and Humphreys. 3,024,460.
Humphreys, Thomas W., and D. S. Titus, to Merck & Co., Inc. Production of crackers. 3,034,896, 5–15–62, Cl. 99—86.
Humphries, James E. Pipe cleaning device. 3,058,525, 10–16–62, Cl. 166—177.
Humphries, Keith J. Tri-axial camera mount. 3,064,547, 11–20–62, Cl. 95—86.
Humphries, Warren J. Roller skates with eccentric wheels. 3,046,032, 7–24–62, Cl. 280—11.19.
Humpston, John R.: *See*—
Robinson, James E. 3,052,921.
Hund, Franz, to Farbenfabriken Bayer Aktiengesellschaft. Mixed phases with a rutile or polyrutile structure. 3,022,186, 2–20–62, Cl. 106—300.
Hund, William O.: *See*—
Chantler, Lewis W., and Hund. 3,030,216.
Chantler, Lewis W., and Hund. 3,030,217.
Chantler, Lewis W., and Hund. 3,047,411.
Hunter, Ray A., and T. Buchholtz, to Minnesota Mining and Mfg. Co. Cleaning sheet for typewriter type. 3,029,457, 4–17–62, Cl. 15—210.
Hundere, Alf. Method for removing deposits from combustion chambers of internal combustion engines. 3,038,454, 6–12–62, Cl. 123—1.
Hundley, Norwelle G., to Horner Flooring Co. Wood strip floor structure. 3,026,578, 3–27–62, Cl. 20—8.
Hundley, Raymond E., Jr. Hunter's tree stand and seat. 3,065,821, 11–27–62. Cl. 182—187.
Hungate, Ernest C., to Carrier Corp. Apparatus for treating air. 3,020,974, 2–13–62, Cl. 183—22.
Hunger, Alfred: *See*—
Wettstein, Albert, Anner, Meystre, Wieland, Ehmann, Heusler, Hunger, and Kebrle. 3,026,340.
Wettstein, Albert, Anner, Meystre, Wieland, Ehmann, Heusler, Hunger, and Kebrle. 3,033,881.
Wettstein, Albert, Anner, Meystre, Wieland, Ehmann, Heusler, Hunger, and Kebrle. 3,040,072.
Hunger, Alfred, and J. B. Ziegler, to Ciba Corp. Purification of 1-dehydro-17*a*-methyltestosterone contaminated by selenium. 3,048,603, 8–7–62, Cl. 260—397.4.
Hunger, Richard H., and E. E. Wuigk, to Caterpillar Tractor Co. Method and apparatus for moving earth. 3,038,265, 6–12–62, Cl. 37—117.5.
Hunger, Richard H., and E. E. Wuigk, to Caterpillar Tractor Co. Suspension system for track-type vehicles. 3,063,510, 11–13–62, Cl. 180—9.2
Hungerford, Albert O., and P. J. Mullane, to Parmelee Plastics Co. Method of producing plastic lenses. 3,038,210, 6–12–62, Cl. 18—58.
Hungerford, Philip C., Jr.: *See*—
Rayner, Donald J., and Hungerford. 3,030,931.
Bevis, George E., Hungerford, and Neff. 3,039,420.
Fuller, John L., Hungerford, and Wickline. 3,023,828.
Hungerford, Philip C., Jr., D. R. Tomko, and R. F. Neff, to Curtiss-Wright Corp. Plural speed driving mechanisms. 3,026,739, 3–27–62 Cl. 74—368.
Hunkeler, Ernst J.: *See*—
Bauer, Oliver F., and Hunkeler. 3,069,813.
Hunnebeck, Emil M. Scaffold. 3,023,833, 3–6–62, Cl. 182—178.
Hünnebeck, Emil M. Girder units and connecting members. 3,062,340, 11–6–62, Cl. 189—37.
Hünnebeck, Emil M. Network of single rods welded together at their junctions. 3,067,844, 12–11–62, Cl. 189—37.
Hunsaker, James P.: *See*—
Farrell, James H., Hunsaker, and Robinson. 3,062,402.
Hunsicker, William R.: *See*—
Hawkins, James E., Hunsicker, and Mahoney. 3,027,555.
Hunsicker, William R., to Seismograph Service Corp. Azimuth determining system. 3,051,949, 8–28–62, Cl. 343—105.
Hunsicker, William R., and E. H. Mahoney, to Seismograph Service Corp. Apparatus for indicating loss of lane count in hyperbolic position finding systems. 3,027,556, 3–27–62, Cl. 343—105.
Hunt, Albert L., Jr., to General Motors Corp. Blade retention. 3,070 351, 12–25–62, Cl. 253—77.
Hunt, Charles F.: *See*—
Kass, Robert E., Markhart, and Hunt. 3,061,566.
Markhart, Albert H., Hunt, and Cohen. 3,048 560.
Markhart, Albert H., Hunt, and Lavin. 3,015,643.
Hunt, Clarkson T. and A. F. Emmerson. Journal lubricator. 3,053,578, 9–25–62, Cl. 308—243.
Hunt, David H., to The Spencer Turbine Co. Vacuum cleaners. 3,025,894, 3–20–62. Cl. 141—369.
Hunt, David H., to The Spencer Turbine Co. Combined wall receptacle and switch. 3,042,765, 7–3–62, Cl. 200—61.6.
Hunt Foods, Inc.: *See*—
Mayer, Ernest. 3,050,114.
Hunt Foods and Industries, Inc.: *See*—
Moore, Thomas B. 3,021,944.
Waters, Lawrence W. 3,040,868.
Hunt, Frederick C., to Ling-Temco Electronics, Inc. Environmental test apparatus. 3,049,913, 8–21–62, Cl. 73—71.6.
Hunt, Frederick C., and E. P. Klein, to Ling-Temco Electronics, Inc. Armature assembly and method of making the same. 3,018,541, 1–30–62, Cl. 29—155.56.
Hunt, George A. K.: *See*—
Jackson, Walter L., and Hunt. 3,030,987.
Hunt, George R.: *See*—
Bollenback, Carol H., Hunt, Saito, and Svarz. 3,024,159.
Bollenback, Carol H., Hunt, and Svarz. 3,021,256.
Hunt, Harry C., to American Safety Table Co., Inc. Power sewing machine table support. 3,069,211, 12–18–62, Cl. 311—12.
Hunt, Harry J. Automobile sun visor accessory. 3,016,262, 1–9–62, Cl. 296—97.
Hunt, Heman D., to E. I. du Pont de Nemours and Co. Radiation-sensitive silver halide emulsions and elements, and processes of developing the same. 3,033,678, 5–8–62, Cl. 96—63.

Hunt, Heman D., to E. I. du Pont de Nemours and Co. Radiation-sensitive emulsions, elements and processes for making same. 3,033,682, 5–8–62, Cl. 96—108.
Hunt, Homer. Ladder attachments. 3,032,140, 5–1–62, Cl. 182—201.
Hunt, James: *See*—
Nelson, James F., Hunt, and Doty. Re. 25,175.
Hunt, John M., to General Precision, Inc. Four quadrant multiplier. 3,039,694, 6–19–62, Cl. 235—194.
Hunt, John S.: *See*—
Evans, Ronald M., Elks, Hems, Arthur, Oughton, Gregory, Walker, and Hunt. 3,040,034.
Hunt, Mack W., and R. M. Tillman, to Continental Oil Co. Pyrophoric fuel compositions. 3,057,763, 10–9–62, Cl. 149—22.
Hunt, Nathan C., to International Basic Economy Corp. Valve for controlling pressurized fluid. 3,016,917, 1–16–62, Cl. 137—620.
Hunt, Nathan C., to International Basic Economy Corp. Fluid control valve. 3,043,335, 7–10–62, Cl. 137—623.
Hunt, Oscar W. Game apparatus. 3,033,569, 5–8–62, Cl. 273—119.
Hunt, Philip A., Co.: *See*—
Alletag, Gerald C. 3,038,801.
Hunt-Pierce Corp.: *See*—
Rheinberger, Vincent P., Jr. 3,036,790.
Hunt, Reginald E. G.: *See*—
Emberson, Kenneth W., and Hunt. 3,066,879.
Hunt, Robert A., to I. R. Systems, Inc. Card structure. 3,025,623, 3–20–62, Cl. 40—158.
Hunt, Robert E., to Sylvania Electric Products Inc. Apparatus for dispensing liquids. 3,015,421, 1–2–62, Cl. 222—309.
Hunt, Robert E., R. C. Ingraham, and W. J. Pietenpol, to Sylvania Electric Products Inc. Method for producing semiconductor devices. 3,066,053, 11–27–62, Cl. 148—1.5.
Hunt, Robert J., to Remington Arms Co., Inc. Machine for applying a coating to the interior of small hollow objects. 3,017,853, 1–23–62, Cl. 118—215.
Hunt, Robert J., to Remington Arms Co., Inc. Device for detecting low or missing charges in the assembly of ammunition components. 3,019,688, 2–6–62, Cl. 86—23.
Hunt, Rufus T. Door holder. 3,018,098, 1–23–62, Cl. 269—91.
Hunt, Stanley E.: *See*—
Petrie, Douglas P. R., and Hunt. 3,036,233.
Hunt, Warren A., to International Business Machines Corp. Error detection circuit. 3,049,692, 8–14–62, Cl. 340—146.1.
Hunt, Warren A., to International Business Machines Corp. Phase distortion correction for high density magnetic recording. 3,067,422, 12–4–62, Cl. 346—74.
Hunt, William R., to Boeing Airplane Co. Automatic cable tensioner. 3,036,350, 5–29–62, Cl. 24—123.
Hunt, William T., L. E. Compton, and R. B. Bennett, to Esso Research and Engineering Co. Centrifuge. 3,034,654, 5–15–62, Cl. 210—372.
Hunter, Austin R., to Kelco Co. Instant chiffon pie filling and method of producing the same. 3,016,302, 1–9–62, Cl. 99—131.
Hunter, Byron A.: *See*—
Bawn, Carl V., and Hunter. 3,015,641.
Bawn, Carl V., and Hunter. 3,015,642.
Hunter, Byron A., to United States Rubber Co. Process of making gas-expanded organoplastic material using nitrososulfonamide blowing agent. 3,052,642, 9–4–62, Cl. 260—2.5.
Hunter, Don L.: *See*—
Steinberg, Howard, and Hunter. 3,027,397.
Steinberg, Howard, Hunter, Pickard, and Petterson. 3,048,614.
Willcockson, George W., Hunter, and Bengelsdorf. 3,069,454.
Hunter, Don L., K. Kitasaki, and G. W. Willcockson, to United States Borax & Chemical Co. Preparation of organic monoborate salts. 3,028,411, 4–3–62, Cl. 260—462.
Hunter, Donald A.: *See*—
Spinks, Charles W., and Hunter. 3,070,215.
Hunter, Donald N.: *See*—
Currant, Jack, Gent, and Hunter. 3,038,822.
Currant, Jack, Gent, and Hunter. 3,038,823.
Hunter, Edward A.: *See*—
Aldridge, Clyde L., and Hunter. 3,062,766.
Cull, Neville L., Hunter, Verbois, and Ray. 3,048,562.
Hunter, Edward A., to Esso Research and Engineering Co. Process for preparing butyl rubber latex containing phenolaldehyde resin and an ammonium alkyl sulfate. 3,069,374, 12–18–62, Cl. 260—29.3.
Hunter, Edward A., M. M. Lambert, M. A. Segura, and A. B. Small, to Esso Research and Engineering Co. Method of preparing a solution of butyl rubber in hexane comprising adding wet butyl rubber to an aggitated mixture of hexane and water. 3,046,244, 7–24–62, Cl. 260—29.7.
Hunter, Edward A., C. L. Aldridge, and D. E. Gensheimer, to Esso Research and Engineering Co. Manufacture of alkylated aromatic compounds. 3,051,766, 8–28–62, Cl. 260—668.
Hunter, Edward A., A. B. Small, and A. L. Miller, to Esso Research and Engineering Co. Method of stripping solvent from a polymer latex. 3,062,767, 11–6–62, Cl. 260—29.7.
Hunter Engineering Co.: *See*—
Hanson, Henry M. 3,040,799.
Hunter, Ernest W. Polishing tool. 3,056,242, 10–2–62, Cl. 51—187.
Hunter, Everett C., to Pittsburgh Steel Co. Manufacture of folding concrete-reinforcing wire mats. 3,048,203, 8–7–62, Cl. 140—107.
Hunter, Frank B. Relief valve. 3,048,188, 8–7–62, Cl. 137—469.
Hunter, Harry L.: *See*—
Frasier, Jordan D., and Hunter. 3,016,813.
Hunter, Henry M.: *See*—
Sadtler, Philip B., and Hunter. 3,021,265.
Hunter, Herbert T.: *See*—
Block, Zenas, Hunter, and Hodges. 3,044,180.
Hunter, Joseph L., to Aluminum Research Corp. Method of and apparatus for reeling sheet material continuously. 3,062,465, 11–6–62, Cl. 242—56.
Hunter, Joseph L., and T. A. Martin, to Aluminum Research Corp. Means and method of continuously stretching sheet stock. 3,056,880, 10–2–62, Cl. 219—50.
Hunter, Kent: *See*—
Conner, Kenneth B., and Hunter. 3,033,399.
Hunter, Lee. Mirror mount for wheel alignment apparatus. 3,055,264, 9–25–62. Cl. 88—14.
Hunter, Lloyd P., to International Business Machines Corp. Cryogenic memory circuit. 3,065,459, 11–20–62, Cl. 340—173.1.
Hunter, Omer B., Jr. Vacuum anchor. 3,051,117, 8–28–62, Cl. 114—206.
Hunter, Paul H. Tabulator card and system for coding and sorting same. 3,034,512, 5–15–62, Cl. 129—16.1.
Hunter-Penrose Ltd.: *See*—
Kilminster, Arthur R. 3,019,703.
Kilminster, Arthur R. 3,041,932.
Hunter, Philip E.: *See*—
Morley, Frederick W. W., Kent, Hunter, and Wilkinson. 3,061,427.
Hunter, Richard E., to Barnes Mfg. Co. Self-priming centrifugal pump. 3,045,603., 7–24–62, Cl. 103—113.
Hunter, Robert C., to Curtis Mfg. Co. Stock straightening apparatus. 3,053,307, 9–11–62, Cl. 153—94.
Hunter, Robert H., A. J. Hanje, and H. W. Smith; said Hanje and said Smith assors. to said Hunter. Generator for liquid fuel torch. 3,047,054, 7–31–62, Cl. 158—33.
Hunter, Robert H., and H. W. Smith, said Smith, assor. to said Hunter. Liquid fuel heater. 3,070,150, 12–25–62, Cl. 158—4.
Hunter, Robert H., and H. W. Smith, said Smith, assor. to said Hunter. Variable rate multiple fuel nozzle. 3,070,317, 12–25–62, Cl. 239—402.
Hunter, Thomas D., and J. M. Pomerantz. Sewing needles. 3,031,116, 4–24–62. Cl. 223—102.
Hunter, Thomas M. Rotary welding apparatus including transformer. 3,040,162, 6–19–62, Cl. 219—63.
Hunter, Walter F., Jr., and J. S. Osmalov, to Eastman Kodak Co. Method of dope-casting film at high shear rate. 3,038,209, 6–12–62, Cl. 18—57.
Hunter, Wesley L., to The Pure Oil Co. Bottom loading valve mechanism. 3,047,009, 7–31–62, Cl. 137—403.
Hunter, William A., to Pettibone Mulliken Corp. Apparatus for producing sand molds. 3,061,899, 11–6–62, Cl. 22—20.
Hunter, William A., to Pettibone Mulliken Corp. Rotary flask and mold transfer and upending mechanism. 3,062,388, 11–6–62, Cl. 214—1.
Hunter, William A., to Pettibone Mulliken Corp. Flask and mold handling mechanism. 3,062,389, 11–6–62, Cl. 214—1.
Hunter, Windsor H., to Transitron Electronic Corp. Semiconductor device and method of making. 3,069,603, 12–18–62, Cl. 317—234.
Hunting, Donald L., and E. J. Moyle, to Wolverine Shoe and Tanning Corp. Protective toe structure for shoes. 3,034,235, 5–15–62, Cl. 36—77.
Hunting Survey Corp. Ltd.: *See*—
Gilpin, Gilbert L. 3,064,198.
Huntington, Dexter P., and P. A. Homier, to Union Carbide Corp. Compositions for treating fibrous materials. 3,027,274, 3–27–62, Cl. 117—126.
Huntington, Morgan G.: *See*—
Justheim, Clarence I., and Huntington. 3,028,330.
Huntington, Morgan G., to Pyromet Corp. Method for continuous hearth refining of steel and beneficiation of ores of ferro alloys. 3,022,157, 2–20–62, Cl. 75—30.
Huntley, Allan R., and C. H. Huebschle, to Esso Research and Engineering Co. Distributing gas to fluidized beds. 3,053,642, 9–11–62, Cl. 23—288.
Huntley, Keith G., to Rank Precision Industries, Ltd. Polarized relay device. 3,060,382, 10–23–62, Cl. 328—85.
Huntley, Raymond L.: *See*—
Miller, Myron M., McFalls and Huntley. 3,031,679.
Huntoon, Robert D. W., to United States of America, Navy. Antenna system for an ordnance missile. 3,069,113, 12–18–62, Cl. 244—14.
Huntress, Howard B., to American Brake Shoe Co. Friction couples. 3,066,765, 12–4–62, Cl. 188—78.
Huntress, Howard B., and T. S. Taylor, to American Brake Shoe Co. Railroad brakes. 3,053,349, 9–11–62, Cl. 188—153.
Huntress, Howard B., and T. S. Taylor, to American Brake Shoe Co. Brake apparatus. 3,056,262, 10–2–62, Cl. 60—54.5.
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Huntsinger Associates: *See*—
Hanes, James W. E. 3,030,935.
Huot, Henry E., to Huot Mfg. Co. Drill holding case. 3,018,-876, 1–30–62, Cl. 206—17.
Huot Mfg. Co.: *See*—
Huot, Henry E. 3,018,876.
Hupfer, Lloyd G.: *See*—
Jungemann, Luther J., and Hupfer. 3,062,019.
Hupp, Arleigh G. One piece molded awning. 3,015,861, 1–9–62, Cl. 20—57.5.
Hupp, Arleigh G. Spraying apparatus. 3,059,859, 10–23–62, Cl. 239—422.
Hupp, Arleigh G. Plastic glass breaker depositor. 3,063,-668, 11–13–62, Cl. 225—97.
Hupp, Arleigh G. Apparatus for breaking glass strands. 3,063,609, 11–13–62, Cl. 225—103.
Hupp Corp.: *See*—
Aitken, Douglas G. 3,033,096.
Brandenburg, Henry L., and Lavender. 3,063,393.
Durdle, Harold. 3,045,449.
Fiedler, George H. 3,058,457.
Lubin, Marvin. 3,042,806.
Lubin, Marvin. 3,062,964.
Patrick, Malcolm W. 3,047,209.
Pessl, Hubert J., Brandenburg, and Coleman. 3,028,662.
Ravich, Leonard E. 3,056,467.
Ravich, Leonard E. 3,063,195.
Smith, Horace L., Jr. 3,016,100.
Hupp, Edward E.: *See*—
Price, Earl R., and Hupp. 3,031,849.
Hupp, Robert C. Mounting panel for fluid control components. 3,025,878, 3–20–62, Cl. 137—622.
Hupp, Ross E., to Eldorado Electronics Co. Decimal readout for binary numbers. 3,064,889, 11–20–62, Cl. 235—92.
Huppert, Dean L.: *See*—
Bancroft, John W., and Huppert. 3,063,243.
Huppke, Glen P., to Fiber Products Research Center, Inc. Coated aluminum cooking foil and method of manufacture. 3,070,460, 12–25–62, Cl. 117—119.6.
Huppke, Glen P., and R. L. McIlvaine, to Herbert Simpson Corp. Filter device. 3,020,977, 2–13–62, Cl. 183—73.
Huppmeier, Wilhelm, to Didier Werke A.G. Unitary collecting, distributing and supporting plate for stage washers. 3,016,234, 1–9–62, Cl. 261—98.
Hura, Michael, to Picker X-Ray Corp., Waite Mfg. Div., Inc. X-ray apparatus. 3,023,314, 2–27–62, Cl. 252—105.
Hurd, Dallas T., and R. C. Osthoff, to General Electric Co. Hydrocarbon rubber-vinyl containing organopolysiloxane composition and method of making same. 3,021,292, 2–13–62, Cl. 260—3.
Hurd, Frank K., to J. F. Gleen, H. W. Fraser, Jr., A. M. Adamson, trustees for the Employees' Saving and Profit Sharing Trust Fund of the Citizens and Southern National Bank. Article and machine for verifying checks and the like. 3,042,298, 7–3–62, Cl. 235—61.7.
Hurd, Fraser A. Lineal anti-friction bearing. 3,044,835, 7–17–62, Cl. 308—6.
Hurd, Leon H.: *See*—
Jones, Charles H., Jr. 3,027,054.
Hurd Lock & Mfg. Co.: *See*—
Dies, Herbert F. 3,031,232.
Hurd, Ray M., to United States of America, Navy. Electrolytic product cell. 3,050,665, 8–21–62, Cl. 317—231.
Hurd, Ray M., and G. T. Kemp, to United States of America, Navy. Electro-osmosis driver unit combined with electrolytic detector for taking derivatives. 3,065,365, 11–20–62, Cl. 310—2.
Hurd, Walter J.: *See*—
Arey, Ralph G. 3,037,281.
Hurdle, Junius P.: *See*—
Jaquith, Howard R., and Hurdle. 3,025,868.
Hurford, Walter J., R. B. Gordon, and W. A. Johnson, to United States of America, Atomic Energy Commission. Composite fuel element. 3,070,527, 12–25–62, Cl. 204—154.2.
Hurford, Winslow L., to Radio Corp. of America. Method of and apparatus for transmission of television signals by frequency modulation. 3,064,075, 11–13–62, Cl. 178—5.4.
Hurin, Edward F., and J. R. Miles, to Charles Bruning Co., Inc. Apparatus for exposing light sensitive sheets and/or webs. 3,052,155, 9–4–62, Cl. 88—24.
Hurko, Bohdan, to General Electric Co. Oven liner. 3,038,-462, 6–12–62, Cl. 126—19.
Hurko, Bohdan, to General Electric Co. Thermal isolation of oven liner. 3,066,212, 11–27–62, Cl. 219—35.
Hurko, Bohdan, to General Electric Co. Multi-layer film heaters in strip form. 3,067,315, 12–4–62, Cl. 219—37.
Hurko, Bohdan, and M. S. Williams, Jr., to General Electric Co. Smoke and heat control for charcoal grill. 3,040,730, 6–26–62, Cl. 126—25.
Hurlburt, Arthur F.: *See*—
Padelt, Johannes G., and Hurlburt. 3,039,441.
Hurlburt, Charles E., to The Bendix Corp. Means for effecting trim adjustment in a gyroscopic horizon with natural spherical indication. 3,032,886, 5–8–62, Cl. 33—204.
Hurlbut, Gordon K., to Porta-Trace, Inc. Data card insert-removing punch. 3,050,108, 8–21–62, Cl. 156—584.
Hurlesaus, Reinhold, and R. Kraemer, to SKF Kugellagerfabriken Gesellschaft mit beschrankter Haftung. Top roll carrier arrangement. 3,037,249, 6–5–62, Cl. 19—282.
Hurless, Bernard F., of ½0% to Gadget-Of-The-Month Club, Inc. Lawn sprinkler head guard. 3,015,448, 1–2–62, Cl. 239—201.
Hurletron Inc.: *See*—
Frommer, Joseph C. 3,031,118.
Frommer, Joseph C. 3,033,109.
Rhodes, Chester R. 3,024,334.
Walthall, Willard M. 3,019,955.
Hurley, Daniel R., and J. F. McHugh, to Interchemical Corp. Jacket used in copy making. 3,066,679, 12–4–62, Cl. 129—1.
Hurley, Forrest R.: *See*—
MacCallum, Robert B., and Hurley. 3,062,746.
Hurley, Forrest R., to W. R. Grace & Co. Substituted hydrazine process. 3,015,675, 1–2–62, Cl. 260—583.
Hurley, George F.: *See*—
Wilson, Thomas P., Hurley, and Manyik. 3,053,916.
Hurley, Karl C., to Hughes Aircraft Co. Rotary electrical joint. 3,028,445, 4–3–62, Cl. 174—86.
Hurley, Roy T., and E. S. Agui, to Curtiss-Wright Corp. Ground effect machine. 3,066,753, 12–4–62, Cl. 180—7.
Hurlimann, Hans, and P. Hauri, to Landis & Gyr, A.G. Method of remotely controlling electric switching arrangements by means of mains-superposition central remote control installations and arrangement for carrying out the method. 3,067,405, 12–4–62, Cl. 340—164.
Hurme, Herbert J., S. J. Ketterer, and D. S. Reed, to The Singer Mfg. Co. Program control for sewing machines. 3,029,758, 4–17–62, Cl. 112—102.
Huron, James W., and A. J. Scarlata, ⅓ to F. W. Mitchell. Automatic starter for internal combustion engines. 3,041,-465, 6–26–62, Cl. 290—38.
Hursen, Horace H., to Amsted Industries Inc. Wheel hub cooling arrangement. 3,043,317, 7–10–62, Cl. 134—45.
Hursen, Thomas F., and G. T. McClure, to Westinghouse Air Brake Co. Wheel tread brake unit for railway car trucks. 3,017,960, 1–23–62, Cl. 188—52.
Hurst, Charles W.: *See*—
Lucas, Malcolm B., and Hurst. 3,048,993.
Hurst, Edward, to Rexall Drug Co. Abrasive articles and methods of making the same. 3,048,482, 8–7–62, Cl. 51—298.
Hurst, George H., Jr., and W. G. Campbell. Gear shifting mechanism. 3,052,135, 9–4–62, Cl. 74—473.
Hurst, George P. and M. M.; said M. M. Hurst, assor. to said G. P. Hurst. Boat launching apparatus. 3,047,159, 7–31–62, Cl. 212—20.
Hurst, Harry G.: *See*—
McManimie, Robert J., Hurst, and Mottus. 3 065,220.
Hurst, Ira N., to Hurst Tool & Mfg. Co., Inc. Shading coil and pole piece for synchronous motor. 3,041,487, 6–26–62, Cl. 310—172.
Hurst, Jesse M. Rattler. 3,027,681, 4–3–62, Cl. 46—117.
Hurst, John W.: *See*—
Ball, Thomas M., Graham, Elliott, Hurst, and Noftz. 3,026,860.
Hurst, Justin, to Russell Constructions Ltd. Straining and sifting processes and apparatus. 3,047,151, 7–31–62, Cl. 209—366.5.
Hurst, Kerney J., and W. G. Pearson. Article counting device. 3,045,864, 7–24–62, Cl. 221—7.
Hurst, Mowatt M.: *See*—
Hurst, George P. and M. M. 3,047,159.
Hurst, Norman A., Conveyor for vehicles. 3,058,433, 10–16–62, Cl. 104—172.
Hurst, Norman A., and T. J. Walton, to Dunlop Rubber Co. Ltd. Manufacture of pneumatic tyres. 3,062,269, 11–6–62. Cl. 156—398.
Hurst, Robert E. Portable self-contained flashing warning signal. 3,063,046, 11–6–62, Cl. 340—366.
Hurst, Stanley L.: *See*—
Grose, Basil H., and Hurst. 3,035,248.
Hurst, Thomas B.: *See*—
Hamilton, Carl C., and Hurst. 3,022,774.
Hurst, Thomas L., and A. W. Turner. Method of refining amyloglucosidase. 3,047,471, 7–31–62, Cl. 195—66.
Hurst, Thomas L., and A. W. Turner, to A. E. Staley Mfg. Co. Method of refining amyloglucosidase. 3,067,108, 12–4–62, Cl. 195—31.
Hurst Tool & Mfg. Co., Inc.: *See*—
Hurst, Ira N. 3,041,487.
Hurt, Alfred B., Jr.: *See*—
Forney, Robert C., and Hurt. 3,036,214.
Hurt, Leonard W., to Newport News Shipbuilding and Dry Dock Co. Method of making expansion joint. 3,037,273, 6–5–62, Cl. 29—454.
Hurt, Norman A., and S. A. Mitchell, to Lever Brothers Co. Detergent powders. 3,054,753, 9–18–62, Cl. 252—99.
Hurtle, James E., to The Bendix Corp. Pneumatic fuel control. 3,040,529, 6–26–62, Cl. 60—39.28.
Hurvitz, Hyman. Multiple stylus recorder and analog signals. 3,030,168, 4–17–62, Cl. 346—74.
Hurvitz, Hyman, to Panoramic Electronics, Inc. Intermodulation distortion system. 3,032,712, 5–1–62, Cl. 324—57.
Hurvitz, Hyman. Two-dimensional displays. 3,043,988, 7–10–62, Cl. 315—169.
Hurvitz, Hyman. Frequency measuring and phase measuring systems. 3,052,843, 9–4–62, Cl. 324—77.
Hurvitz, Hyman. Bragg diffraction ultrasonic devices. 3,055,258, 9–25–62, Cl. 88—14.
Hurvitz, Hyman. Telemeter system. 3,058,005, 10–9–62, Cl. 250—220.

Hurwitz, Marvin J., to Rohm & Haas Co. Plasticized resinous composition comprising a vinyl chloride polymer and a trialkyl trimesate. 3,043,792, 7–10–62, Cl. 260—31.8.
Hurwitz, Melvin D.: *See*—
Kantner, George C., and Hurwitz. 3,046,075.
Hurwitz, Melvin D., to Rohm & Haas Co. Compositions, textiles treated therewith, and processes for the treatment thereof. 3,043,718. 7–10–62. Cl. 117—139.4.
Hurwitz, Miriam. Brassiere construction. 3,040,750, 6–26–62, Cl. 128—482.
Husby, Donald E., and C. W. Eberhart, to Westinghouse Electric Corp. Fluorescent luminaire. 3,064,124, 11–13–62. Cl. 240—25.
Husby, Donald E., C. W. Eberhart, and E. L. Izzi, to Westinghouse Electric Corp. Luminaire. 3,065,338, 11–20–62, Cl. 240—25.
Huse, Arthur E.: *See*—
Hogeman, Hans, and Huse. 3,050,964.
Husek, Helen P.: *See*—
Green, Milton, and Husek. 3,019,254.
Huseman, Martin. Gauge attachment for combines. 3,021,-660, 2–20–62, Cl. 56—210.
Hüsing, Heinz: *See*—
Hartmann, Kurt, Hüsing, Seidel, Deppe, and Gredigk. 3,057,008.
Huska, Paul. Fluid reservoir. 3,019,948, 2–6–62, Cl. 222—395.
Huska, Paul. Transposed electrical bus ducts. 3,020,330, 2–6–62, Cl. 174—34.
Husney, Edward A., to Thompson Ramo Wooldridge Inc. Selective tandem pump mounting. 3,067,687, 12–11–62, Cl. 103—1.
Huss, Glenn L.: *See*—
Robinson, Frederick A., and Huss. Re. 25,200.
Huss, William S.: *See*—
Asman, Norman J., and Huss. 3,019,958.
Huss, William S., and N. J. Asman, to American Can Co. Combination tray and cover. 3,027,062, 3–27–62, Cl. 229—23.
Hussey, Forrest A., to The O.K. Tool Co., Inc. Bit holder. 3,057,043, 10–9–62, Cl. 29—105.
Hussey, Luther W., to Bell Telephone Laboratories, Inc. Transistor crosspoint switching network. 3,047,667, 7–31–62, Cl. 179—18.
Hussey, Luther W., and F. A. Saal, to Bell Telephone Laboratories, Inc. High current transistor pulser. 3,060,324, 10–23–62. Cl. 307—88.5.
Hussman Engineering Corp.: *See*—
Shawfrank, Robert W. 3,020,377.
Hussmann Refrigerator Co.: *See*—
Dickson, Edgar V., and Weber. 3,063,253.
Dickson, Edgar V., and Weber. 3,063,254.
Hustad, Grant L. Live bait dispenser. 3,048,937, 8–14–62, Cl. 43—55.
Hustad, Hugo R. Specimen taking tool. 3,059,640, 10–23–62. Cl. 128—263.
Husted, Hugh M.: *See*—
Leibowitz, Alec. 3,063,921.
Husted, Norris C. Neutral wire clamps and the like. 3,017,600, 1–16–62, Cl. 339—149.
Husted, Norris C. Mid-span service take off. 3,019,282, 1–30–62, Cl. 174—43.
Hustinx, Edmond. Method of preparing hardening compositions. 3,016,358, 1–9–62, Cl. 260—23.
Hustinx, Edmond. Manufacture of glass. 3,065,089, 11–20–62, Cl. 106—52.
Huston, Alexander E., to United Kingdom Atomic Energy Authority. Kerr cell shutter assembly. 3,060,807, 10–30–62. Cl. 88—61.
Huston, Alfred B., to American Sterilizer Co. Gas sterilizing system. 3,054,270, 9–18–62, Cl. 62—52.
Huston, Andrew J.: *See*—
West, Lester W., and Huston. 3,052,231.
Huston, Bernard W. Sportsman's cart. 3,034,801, 5–15–62, Cl. 280—37.
Huston, Elmo F. Potheads and cable terminals. 3,033,915, 5–8–62, Cl. 174—73.
Huston, Milton D.: *See*—
Breese, James L., and Huston. 3,017,925.
Huston, Milton D., to Controls Co. of America. Vaporizer for horizontal vaporizing burner. 3,033,279, 5–8–62, Cl. 158—91.
Huston, Owen H., to Schlumberger Well Surveying Corp. Electromagnetic well logging systems. 3,051,892, 8–28–62, Cl. 324—6.
Huston, Shelby L. Tire chains. 3,047,038, 7–31–62, Cl. 152—241.
Huston, William D., to American Radiator & Standard Sanitary Corp. Earth moving depth indicator. 3,039,087, 6–12–62, Cl. 340—282.
Huston, William J., Sr., and A. E. De Mott. Method of disintegrating a sand mold while in association with a flask and a casting. 3,030,678, 4–24–62, Cl. 22—190.
Husum, Charles W., to Owens-Illinois Glass Co. Gasketed closure cap for glass containers. 3,061,150, 10–30–62, Cl. 215—40.
Husvar, Joseph M., and G. K. Metz, to Studebaker-Packard Corp. Windlace retaining means. 3,032,840, 5–8–62, Cl. 20—69.
Hutch, Thomas E. Extrusion press run-out table. 3,032,187, 5–1–62, Cl. 207—1.
Hutchens, George H., and W. L. Duncan, to E. I. du Pont de Nemours and Co. Apparatus for monitoring yarn surface defects. 3,058,343, 10–16–62, Cl. 73—160.
Hutchens, George H., and W. L. Duncan, to E. I. du Pont de Nemours and Co. Method and apparatus for measuring twist. 3,063,293, 11–13–62, Cl. 73—160.
Hutcheon, Keith F.: *See*—
Kemp, Kenneth A. W., and Hutcheon. 3,035,523.
Hutcheon, Keith F., to C.A.V. Ltd. Liquid fuel pumps for internal combustion engines. 3,025,797, 3–20–62, Cl. 103—37.
Hutchings, Erle M.: *See*—
Etchison, John O., Jr., and Hutchins. 3,050,849.
Hutchings, Le Roi E.: *See*—
Blum, Edmund D., and Hutchings. 3,033,649.
Hutchings, Le Roi E., to Pure Oil Co. Resinous condensation products and process. 3,037,877, 6–5–62, Cl. 106—316.
Hutchings, Le Roi E., to The Pure Oil Co. Lubricating system. 3,042,147, 7–3–62, Cl. 184—6.
Hutchins, Blanchard S.: *See*—
Ainslie, Robert E., Comisarow, Hutchins, and Zinn. 3,064,568.
Hutchins, Blanchard S., to United States of America, Navy. Parachute collapsing and retrieval device. 3,047,258, 7–31–62, Cl. 244—137.
Hutchins, James E.: *See*—
Wilson, Earl W., and Hutchins. 3,055,869.
Hutchins, Loren, to The Douthitt Corp. Translucent copyholder photographic printer. 3,064,546, 11–20–62, Cl. 95—73.
Hutchins, William R., to Raytheon Co. Feed-through nulling systems. 3,021,521, 2–13–62, Cl. 43—5.
Hutchinson, Archibald D. L. Movable body on a truck frame. 3,022,111, 2–20–62, Cl. 298—14.
Hutchinson (Compagnie Nationale du Caoutchouc), Etablissements: *See*—
Richard, Fabien A. 3,064,704.
Hutchinson, Franklin B.: *See*—
Scott, Larkin B., and Hutchinson. 3,032,702.
Hutchinson, Herman R., to Plastomatic Corp. Re-usable plastic containers. 3,048,299, 8–7–62, Cl. 220—54.
Hutchinson, Irving N., to Sperry Rand Corp. Combined manual and automatic servo system. 3,043,541, 7–10–62, Cl. 244—78.
Hutchinson, Jack B. Ceiling board jack. 3,047,165, 7–31–62, Cl. 214—1.
Hutchinson, Jesse B. Material handling platform. 3,058,-770, 10–16–62, Cl. 296—28.
Hutchinson, John W., R. R. Fenn, and L. L. Preiss, to Flight Equipment and Engineering Corp. Recline seat control mechanism. 3,042,449, 7–3–62, Cl. 297—366.
Hutchinson, Myles, ½ to Clarke, Chapman & Co. Ltd. Hauling and lifting apparatus. 3,018,999, 1–30–62, Cl. 254—184.
Hutchinson, Oliver C.: *See*—
Hutchinson, Thomas K. and O. C. 3,026,584.
Hutchinson, Philip S., and D. L. Spanjer, to Ibis Enterprises Ltd. Conveying mechanism. 3,045,728, 7–24–62, Cl. 144—208.
Hutchinson, Thomas K. and O. C. Molding machines. 3,026,-584, 3–27–62, Cl. 22—9.
Hutchinson, William E., to Dow Corning Corp. Metal primers for silicone rubber adhesion. 3,024,131, 3–6–62, Cl. 117—75.
Hutchinson, William G., and L. C. Cole, to United Kingdom Atomic Energy Authority. Electromagnetic pumps. 3,015,-278, 1–2–62, Cl. 103—1.
Hutchinson, William G., and L. C. Cole, to United Kingdom Atomic Energy Authority. Electromagnetic pumps. 3,026,-807, 3–27–62, Cl. 103—1.
Hutchinson, William M.: *See*—
Pritchard, James E., Hutchinson, and Hudson. 3,055,782.
Hutchinson, William M., to Phillips Petroleum Co. Preparation of polymeric peroxides from conjugated diolefins. 3,023,249, 2–27–62, Cl. 260—610.
Hutchinson, William M., to Phillips Petroleum Co. Rubbery diene polymer composition containing an oxidized polymer of butadiene. 3,036,025, 5–22–62, Cl. 260—31.8.
Hutchinson, William M., to Phillips Petroleum Co. Rocket motor. 3,048,968, 8–14–62, Cl. 60—35.6.
Hutchinson, William M., and C. G. Long, to Phillips Petroleum Co. Manufacture of solid propellant. 3,022 206, 2–20–62, Cl. 149—60.
Hutchison, Charles B. Forming machines. 3,043,360, 7–10–62, Cl. 153—46.
Hutchison, Frank C., R. W. Stripp, and W. F. Tibbetts, to United States of America, Army. Fuze arming device. 3,059,577, 10–23–62, Cl. 102—84.
Hutchison, Frank E.: *See*—
Cooper, John H. 3,030,117.
Hüter, Ludwig, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Process for the preparation of acetonecyanohydrinsulfuric acid mixtures. 3,027,328, 3–27–62, Cl. 252—188.3.
Huth, Carl M., to Belden Mfg. Co. Connector. 3,029,406, 4–10–62, Cl. 339—59.
Huthmacher, Lester C. Material loading machine. 3,038,-583, 6–12–62, Cl. 198—7.
Huthsing, Charles K., Jr. Wheeled cart for conveying a tank or cylinder. 3,064,991, 11–20–62, Cl. 280—47.24.

Huthsing, Charles K., Sr., to The General Fire Extinguisher Co. of Pennsylvania. Inner charge container for fire extinguishers. 3,028,918, 4–10–62, Cl. 169—32.

Huthsing, Charles K., Sr., and D. F. Preston, to General Fire Extinguisher Corp. Fire extinguisher head assembly. 3,048,194, 8–7–62, Cl. 137—630.15.

Hutson, James L.: *See*—
Bingham, Robert E., Forrest, Hanlon, and Hutson. 3,062,759.

Hutt, Clyde B. Adjustable height bed. 3,039,118, 6–19–62, Cl. 5—63.

Hutt, Clyde B. Bed with adjustable side rail assembly. 3,048,857, 8–14–62, Cl. 5—331.

Hutt, Philip, to General Electric Co. Method of making resilient switch contacts. 3,015,876, 1–9–62, Cl. 29—155.55.

Huttash, Harry J. Self-propelled concrete joint treating machine and method. 3,043,200, 7–10–62, Cl. 94—22.

Huttenlocher, Henry J., Jr., to Servomechanisms, Inc. Servomotors. 3,054,008, 9–11–62, Cl. 310—184.

Huttenlocher, Richard: *See*—
Loebler, Peter, Helligrath, Elsner, and Huttenlocher. 3,060,061.

Huttenwerk Oberhausen A.G.: *See*—
Schoen, Hans, and Claas. 3,068,992.
Von Begdandy, Ludwig, and Pantke. 3,043,668.

Hutter, Clemens A., and G. O. Stricker, to Daubert Chemical Co. Masking sheet material. 3,032,181, 5–1–62, Cl. 206—59.

Hutter, James F., and L. Kelly, to K & H Equipment Ltd. Single row feeder. 3,049,215, 8–14–62, Cl. 198—30.

Hütter, Ulrich, and E. Hänle. Process for producing a structure of fiber reinforced plastic material. 3,021,246, 2–13–62, Cl. 156—196.

Hutter, Wolfgang: *See*—
Ritter, Kaspar, and Hutter. 3,061,032.

Hutterer, Johann. Device for feeding pictures. 3,062,097, 11–6–62, Cl. 88—28.

Hutterer, Martin, to Cummings-Landau Laundry Machinery Co., Inc. Inflatable washing machine door seal. 3,050,211, 8–21–62, Cl. 220—41.

Huttkay, Arthur L. Drop-out process for halftone photography. 3,031,303, 4–24–62, Cl. 96—45.

Hutto, John F., to Phillips Petroleum Co. Purification of furfural. 3,026,254, 3–20–62, Cl. 202—42.

Hutton, Paul C. Rotary implement. 3,029,899, 4–17–62, Cl. 185—37.

Hutton, Philip C., to Silentbloc Ltd. Flexible mountings for structural members. 3,055,687, 9–25–62, Cl. 287—85.

Hutton, Robert W., to International Telephone and Telegraph Corp. Conversation-timing reverting-call telephone system. 3,056,859, 10–2–62, Cl. 179—17.

Hutton, Robert W., A. T. Sigo, and C. J. Adams, to International Telephone and Telegraph Corp. Direct-access crossbar-switch connector system. 3,046,352, 7–24–62, Cl. 179—22.

Hutton, Ruth D. Apparatus for simultaneously curling and treating eyelashes. 3,016,059, 1–9–62, Cl. 132—32.

Hutton, Walter C. By-pass fittings. 3,064,684, 11–20–62, Cl. 137—625.4.

Huxley, Edward E., to Phillips Petroleum Co. Manufacture of phosphoric acid. 3,017,247, 1–16–62, Cl. 23—165.

Huxley, Edward E., and J. Fetchin, to Phillips Petroleum Co. Process for producing ferrous carbonate and removing oil from ammonia therewith. 3,038,810, 10–16–62, Cl. 23—199.

Huxster, Frederick G., to Engelhard Industries, Inc. Apparatus for the separation of metals from fluids containing same. 3,057,138, 10–9–62, Cl. 55—486.

Huyck Corp.: *See*—
Beaumont, Ralph H., and Christie. 3,032,441.

Huylebroeck, Paul B., and D. B. Potenza. Pack for skin diving equipment. 3,050,180, 8–21–62, Cl. 206—1.

Huyser, Francis C., to Ametek, Inc. Measuring instrument. 3,028,754, 4–10–62, Cl. 73—88.5.

Huyser, Francis C., to Ametek, Inc. Testing machines. 3,040,435, 6–26–62, Cl. 33—174.

Hvizdash, Joseph L. Game. 3,044,779, 7–17–62, Cl. 273—134.

Hwozdek, Walter P.: *See*—
Santoro, Anthony F., and Hwozdek. 3,047,352.

Hyams, James A. E.: *See*—
Zuehlke, Arthur A., and Hyams. 3,020,508.

Hyams, Montagu, to Amchem Products, Inc. Spray pickling processes for the surface treatment of metal. 3,015,588, 1–2–62, Cl. 134—36.

Hyatt, Donald R., to Worthington Corp. Loudness indicator. 3,021,814, 2–20–62, Cl. 116—133.

Hyatt, Philip L., to American Air Filter Co., Inc. Air filter control unit. 3,020,976, 2–13–62, Cl. 183—62.

Hycon Mfg. Co.: *See*—
Applefield, William G. 3,017,629.
Cahill, Starr W. 3,017,019.
Cahill, Starr W., and White. 3,028,187.
Hillman, Murray J. 3,023,354.
Hillman, Murray J., and Nunt. 3,017,543.
Leighton, Thomas C., and Wright. 3,060,829.
Mundt, Edward. 3,023,363.
Oxspring, Ronald E. N., and Rosenblum. 3,016,810.
White, Warren W., and Cahill. 3,066,014.
Wright, Malor. 3,027,821.

Hyde, Clyde M., to Research Corp. Sideband intermediate frequency communications system. 3,020,398, 2–6–62, Cl. 250—6.

Hyde, David F.: *See*—
Jankowski, Conrad M., Hyde, Reynolds, and Thoburn. 3,026,182.

Hyde, Floyd D. Timing device. 3,063,297, 11–13–62, Cl. 74—56.

Hyde, Gertrude L. Sawyer's apron. 3,020,553, 2–13–62, Cl. 2—52.

Hyde, James F.: *See*—
Brown, Paul L., and Hyde. 3,065,252.

Hyde Mfg. Co.: *See*—
Burton, Russell A. 3,067,866.

Hyde, Richard E. Airplane liquid-spraying device. 3,061,247, 10–30–62, Cl. 244—136.

Hyde, Richard W.: *See*—
Old, Bruce S., Hyde, Meissner, Margolin, Newton, and Schora. 3,020,149.

Hyde, Robert D. Combination table seat and vehicle seat for babies and small children. 3,052,500, 9–4–62, Cl. 297—130.

Hyde, Robert W., Putter. 3,066,936, 12–4–62, Cl. 273—80.

Hyde, Thomas J., to E. I. du Pont de Nemours and Co. Modified glycidyl methacrylate compositions. 3,022,262, 2–20–62, Cl. 260—43.

Hyde, Wister U., and J. Cording, Jr., to United States of America, Agriculture. Device for ricing cooked potatoes and the like. 3,024,823, 3–13–62, Cl. 146—174.

Hyde, Wister U., and J. Cording, Jr., to United States of America, Agriculture. Method for ricing cooked potatoes and the like. 3,057,387, 10–9–62, Cl. 146—239.

Hyder, Clarence D., Jr., and D. D. Vestal, to Burlington Industries, Inc. Box printing machine. 3,020,835, 2–13–62, Cl. 101—44.

Hydorn, Allan E., to Olin Mathieson Chemical Corp. 1-dehydrogenation of 11β-hydroxy steroids by 2,3-dibromo-5,6-dicyanoquinone. 3,035,050, 5–15–62, Cl. 260—239.55.

Hydrahone Equipment Co.: *See*—
Belknap, Kenneth E. 3,046,713.
Erie, Loren E. 3,053,265.

Hydra-Power Corp.: *See*—
Giampapa, Cirino, and Sattarelle. 3,035,871.

Hydraulic Crushers Ltd.: *See*—
Gauldie, Kenneth. 3,024,609.

Hydraulic Dredging Co., Ltd.: *See*—
Cushing, Paul J., Sr. 3,050,880.

Hydraulic Research and Mfg. Co.: *See*—
Buchanan, J. D., and Smith. 3,015,317.
Gray, Samuel A. 3,042,005.

Hydraulic Specialties, Inc.: *See*—
Bacon, Jabez R. 3,037,892.

Hydraulic Unit Specialties Co.: *See*—
Tennis, Francis H. 3,037,354.
Tennis, Francis H. 3,052,218.

Hydraulik G.m b.H.: *See*—
Grohmann, August, and Prött. 3,043,425.
Müller, Ernst. 3,042,195.
Müller, Ernst. 3,065,781.
Petsch, Ernst, and Hauschild. 3,028,006.

Hydrauliska Industri Aktiebolaget: *See*—
Sundin, Anders E. 3,024,920.

Hydraxtor Co.: *See*—
Hajos, Eugene. 3,039,842.

Hydril Co.: *See*—
Knox, Granville S. 3,018,791.
Knox, Granville S. 3,035,808.
Knox, Granville S. 3,036,590.
Knox, Granville S. 3,064,938.

Hydro, William R.: *See*—
Wisner, Marco, and Hydro. 3,051,665.

Hydro-Air Engineering, Inc.: *See*—
Moehlenpah, Walter G., and Pallme. 3,068,483.
Moehlenpah, Walter G., and Pallme. 3,068,484.

Hydrocarbon Research, Inc.: *See*—
Fidelman, Morris. 3,033,779.
Keith, Percival C. 3,018,632.
Schuman, Seymour C. 3,050,459.

Hydro-Chemie, Aktiengesellschaft: *See*—
Weber, Eugen. 3,044,310.

Hydroconic Ltd.: *See*—
Corlett, Ewan C. B. 3,068,602.

Hydro Engineering Corp.: *See*—
Skow, Ross E. 3,028,845.
Skow, Ross E. 3,029,068.

Hydromatics, Inc.: *See*—
Britton, Harrison J. 3,062,555.

Hydro-Perf Co., The: *See*—
McElheny, John B. 3,058,522.

Hydro-Space Technology Inc.: *See*—
Fulton, Nathaniel D. 3,027,125.

Hydrostahlbau-Gesellschaft Wiese & Co.: *See*—
Pohl, Friedrich. 3,035,710.
Pohl, Friedrich. 3,037,642.

Hydrosteer Ltd.: *See*—
Adams, Frederick J. 3,037,485.

Hydro-Ventricle Brake Co.: *See*—
Mitton, Robert E. 3,032,997.
Mitton, Robert E. 3,036,436.

Hy-Dynamic Co., The: *See*—
Hough, Frank G., Peterson, and Gilson. 3,047,170.

Hygen, Hans F. Method in the electrolytical production of aluminium. 3,016,340, 1–9–62, Cl. 204—67.

Hygrade Food Products Corp. : *See*—
Harper, Clarence M., Jr., and Harrington. 3,016,004.
Hygrade Rainwear Mfg. Corp. : *See*—
Bukspan, Joseph. 3,018,486.
Hyink, Roy, to Cutler-Hammer, Inc. Alternating current electromagnetic device. 3,022,449, 2–20–62, Cl. 317—123.
Hyink, Roy, to Cutler-Hammer, Inc. Methods of making electromagnetic devices. 3,052,959, 9–11–62, Cl. 29—155.57.
Hyland Laboratories : *See*—
Fisk, Roy T., and Allen. 3,035,986.
Hylbert, Edgar W., Jr., to The Goodyear Tire & Rubber Co. Pneumatic tire. 3,052,275, 9–4–62, Cl. 152—354.
Hyler, Loiell L. Earth-moving apparatus. 3,021,624, 2–20–62, Cl. 37—129.
Hyman, Abraham. Audiometer. 3,054,855, 9–18–62, Cl. 179—1.
Hyman, Barry. Conveyor system. 3,055,480, 9–25–62, Cl. 198—38.
Hyman, Chester, and T. Winsor. Body fluid pressure measuring device. 3,062,202, 11–6–62, Cl. 128—2.05.
Hyman, Herbert H. : *See*—
Hildebrandt, Robert A., Hyman, and Vogler. 3,049,402.
Hyman, James T. : *See*—
Walker, George B., and Hyman. 3,028,565.
Hyman, Julius, and H. P. C. Lee, to Fundamental Research Co. Preparation of heteronuclear nitronaphthalenes and derivatives. 3,065,277, 11–20–62, Cl. 260—645.
Hymek, Mark, Jr., to United States of America, Atomic Energy Commission. Heavy metal loaded plastic scintillating compositions. 3,041,287, 6–26–62, Cl. 252—301.2.
Hyman, S. L., Co., The : *See*
Dudley, Harold A. 3,033,613.
Hymas, Theo A., and G. T. Stevenson, to The Dow Chemical Co. Method and composition for the control of coccidiosis in animals. 3,052,602, 9–4–62, Cl. 167—53.1.
Hymatic Engineering Co. Ltd., The : *See*—
McInroy, John. 3,021,683.
McInroy, John. 3,041,878.
Hymel, Francis B., Jr. Automatic dialing system. 3,025,358, 3–13–62, Cl. 179—90.2.
Hynard, George H., to Stewart-Warner Corp. Hydraulically timed electrical switch. 3,035,521, 5–22–62, Cl. 102—70.2.
Hynds, August A. Land anchor. 3,017,000, 1–16–62, Cl. 189—92.
Hynes, James P., and G. F. Dunphy, to Ogden Industries Pty. Ltd. Operating devices for casement windows and the like. 3,020,039, 2–6–62, Cl. 268—109.
Hypes, Norman E. : *See*—
Knesisley, Russell E., Hypes, and Flory. 3,047,219.
Hypro Engineering, Inc. : *See*—
Sadler, Harry J., and Cook. 3,062,601.
Sadler, Harry J., and Cook. 3,065,705.
Hyson, Archibald M. : *See*—
Armitage, John B., and Hyson. 3,022,268.
Hyson, Archibald M., and W. H. Todd, to E. I. du Pont de Nemours and Co. Organic acid salts of basic amino acids and their use. 3,024,272, 3–6–62, Cl. 260—501.
Hyson, Archibald M., and M. R. Stahler, Jr., to E. I. du Pont de Nemours and Co. Process for ripening bananas and citrus fruit. 3,030,212, 4–17–62, Cl. 99—103.
Hyson, Archibald M., and M. R. Stahler, Jr., to E. I. du Pont de Nemours and Co. Process for retarding the ripening of fruit. 3,062,659, 11–6–62, Cl. 99—103.
Hyster Co. : *See*—
Harris, Donald A. 3,040,920.
Harris, Donald A., and Shoemaker. 3,054,521.
Martin, William E. 3,030,126.
Olson, John E., and Downey. 3,022,773.
Palmiter, Daniel A. 3,067,658.
Hyvarinen, Matti J. : *See*—
Meek, Wayne L., and Hyvarinen. 3,020,191.
IA Light-Weight Brick Construction, Inc. : *See*—
Ahtiainen, Isakki. 3,025,641.
IBC Research Laboratories, Inc. : *See*—
Minto, Wallace L. 3,028,864.
IBM France Co. : *See*—
Gauthey, Albert. 3,019,350.
I.C.P.M. S.p.A. Industrie Chimiche Porto Marghera : *See*—
Zanon, Domenico, and Trupiano. 3,039,850.
I.R. Systems, Inc. : *See*—
Hunt, Robert A. 3,025,623.
ISI, Inc. : *See*—
Béguin, Richard F. 3,029,421.
Inc, Leonard J., and Seagraves. 3,039,086.
Keller, Ernest A. 3,039,085.
Marmorstone, Robert J. 3,028,585.
I-T-E Circuit Breaker Co. : *See*—
Albright, Roy H. 3,018,414.
Albright, Roy H. 3,046,422.
Albright, Roy H. 3,067,278.
Atherton, Edward W., and Zoeholl. 3,050,676.
Berchtold, Max. 3,036,561.
Bodenschatz, August. 3,015,709.
Bodenschatz, August. 3,043,934.
Bodenschatz, August, and Gryctko. 3,023,288.
Bohn, Donald I. 3,033,963.
Bowman, David F. 3,025,481.
Carter, William A. 3,033,961.
Cataldo, John. 3,018,463.
Cataldo, John B., Thomas, Mead, and Shackman. 3,048,672.
I-T-E Circuit Breaker Co. : *See*—Continued
Clausing, Challiss L. 3,048,679.
Deans, William. 3,020,329.
Dortort, Isadore K. 3,020,415.
Dortort, Isadore K. 3,042,849.
Dortort, Isadore K. 3,050,634.
Dortort, Isadore K. 3,058,048.
Edmunds, William H. 3,032,631.
Edmunds, William H. 3,054,025.
Edmunds, William H. 3,064,101.
Edmunds, William H. 3,066,277.
Edmunds, William H. 3,070,728.
Farnsworth, George H., and Herrmann. 3,033,952.
Gardiner, Frank J. 3,033,176.
Gardiner, Frank J. 3,046,498.
Geissner, George J., and Leonard. 3,053,958.
Graybill, Howard W. 3,046,365.
Gryctko, Carl, and Ball. 3,043,939.
Harman, William H., Jr. 3,054,880.
Healis, George A. 3,040,232.
Herrmann, John A. 3,044,036.
Herrmann, John A., Davis, Hickey, Wood, and Rauhauser. 3,046,375.
Jensen, Otto. 3,044,005.
Jensen, Otto. 3,067,375.
Jensen, Otto. 3,069,615.
Jensen, Otto, and Bingham. 3,067,361.
Kusche, Norman A. 3,050,604.
Myers, Felix E. 3,037,102.
Nimylowycz, Osyp. 3,040,140.
Platz, Elwood T. 3,024,664.
Platz, Elwood T., and Frank. 3,017,605.
Pokorny, Frank J., and Clausing. 3,028,527.
Scott, Robert D. 3,058,022.
Scott, William M., Jr. 3,030,474.
Shackman, Norman. 3,049,791.
Thallner, Karl A. 3,066,209.
Thielmann, Paul. 3,053,364.
Tootelian, George D. 3,020,374.
Uecker, Walter W. 3,032,629.
Wood, Joseph D. 3,070,681.
Wood, Joseph D., Smith, and Carter. 3,054,876.
Yarrick, Charles J. 3,025,376.
Yarrick, Charles J., and Starr. 3,070,682.
Zocholl, Stanley E. 3,018,434.
I.V. Chair Corp. : *See*—
Yellen, John J., Jr. 3,033,732.
Iacovoni, Victor S. Awning window. 3,039,155, 6–19–62, Cl. 20—63.
Iannarone, Joseph J., Jr., to E. I. du Pont de Nemours and Co. Acid dyeing of polyamides using quaternary ammonium salts. 3,025,127, 3–13–62, Cl. 8—54.
Iannarone, Joseph J., Jr., to E. I. du Pont de Nemours and Co. Process for dyeing hydrophobic fibers with disperse dyes. 3,058,798, 10–16–62, Cl. 8—151.
Iannazzi, Joseph L., to The General Tire & Rubber Co. Flame-proofing nylon-cotton jersey knit. 3,032,440, 5–1–62, Cl. 117—138.
Iannicelli, Joseph, to E. I. du Pont de Nemours and Co. Metallic phosphonate containing polyester. 3,052,653, 9–4–62, Cl. 260—75.
Iannicelli, Joseph, to E. I. du Pont de Nemours and Co. Process for increasing the dyeability of linear condensation polymer esters with chelatable dyes. 3,068,207, 12–11–62, Cl. 260—75.
Ianuzzi, Henry J., 10% to J. Gallo, Sr. Auxiliary mirror. 3,048,084, 8–7–62, Cl. 88—87.
Ianuzzi, Joseph N. : *See*—
Bryner, Ernest J., Ianuzzi, and Bridges. 3,054,167.
Ianuzzi, Joseph N., and E. J. Bryner, to Sigma Engineering Service, Inc. Apparatus for feeding parts at high speed. 3,068,626, 12–18–62, Cl. 53—246.
Iapella, Arnaldo, A. Récolte, and R. Ducimetiere. Combustion engine exhaust treatment. 3,016,692, 1–16–62, Cl. 60—30.
Iavelli, Teno : *See*—
Cartwright, Bert W., Miller, and Iavelli. 3,053,115.
Ibanez, Ivan, and R. U. Pereilo. Pseudo-stereophonic distributor for cinematograph reproductions. 3,066,199, 11–27–62, Cl. 179—100.3.
Ibeck, Julius E. Clamp as for clamping beam forms and the like in end to end relation. 3,035,322, 5–22–62, Cl. 25—131.5.
Ibel, Charles J., to Supreme Steel Equipment Corp. Vertically movable filing cabinet. 3,042,472, 7–3–62, Cl. 312—268.
Ibex Development Co., The : *See*—
Strom, Albert. 3,059,983.
Ibing, Rolf, R. Luft, and R. Nagel, to Maschinenfabrik Hartmann Aktiengesellschaft. Device for classifying granular material. 3,024,908, 3–13–62, Cl. 209—144.
Ibis Enterprises Ltd. : *See*—
Becker, Richard M. 3,066,874.
Hutchinson, Philip S., and Spanjer. 3,045,728.
King, Rupert W. 3,042,567.
Kozma, Otto. 3,025,195.
Spanjer, David L. 3,066,712.
Ibrahim, Abdel R. A. F. : *See*—
Vincent, Edward T., and Ibrahim. 3,039,446.
Ibry, Gladys E. : *See*—
Irby, James L. 3,019,891.

Iceland, William F.: *See*—
Purkhiser, Rawlins E., and Iceland. 3,049,609.
Ichikawa, Yoshio: *See*—
Moratis, Christy J., Ichikawa, and Pigan. 3,023,390.
Ichikawa, Yoshio, to Westinghouse Electric Corp. Positive temperature coefficient thermistor materials. 3,044,968, 7–17–62, Cl. 252—520.
Ichinose, Hisakichi. Tri-printing squeegee moving mechanism of an automatic screen printing machine. 3,017,824, 1–23–62, Cl. 101—123.
Ichinose, Hisakichi. Multiple printing squeegee moving mechanism of an automatic screen printing machine. 3,017,825, 1–23–62, Cl. 101—123.
Ichinose, Hisakichi. Intermediate drying arrangement for automatic screen printing machine. 3,040,657, 6–26–62, Cl. 101—115.
Ichinose, Hisakichi. Fixing device for a driving roller of an automatic screen printing machine. 3,046,879, 7–31–62, Cl. 101—115.
Ichinose, Hisakichi. Automatic screen printing machine. 3,066,602, 12–4–62, Cl. 101—115.
Ida, Noble N., to Martin-Marietta Corp. Aluminum alloy. 3,029,154, 2–6–62, Cl. 75—138.
Ida, Noble N., and J. J. Mueller, to Martin Marietta Corp. Nuclear fuel elements. 3,031,392, 4–24–62, Cl. 204—193.2.
Ida, Tadao: *See*—
Sugimoto, Norio, Utsumi, and Ida. 3,041,243.
Idaho Maryland Mines Corp.: *See*—
Campbell, Rodney B. 3,049,011.
Iddings, Charles D.: *See*—
Woolslayer, Homer J., Jenkins, Iddings, and Lynch. 3,058,311.
Iddles, Alfred, and C. U. Savore, to The Babcock & Wilcox Co. Fluid agitators. 3,033,538, 5–8–62, Cl. 257—306.
Ide, Frederick H., and R. C. Kimball, to The Kent Co., Inc. Suction cleaner. 3,046,718, 7–31–62, Cl. 55—323.
Idea Crafters Inc.: *See*—
Janus, Alexander G. 3,062,436.
Ideal Brass Works, Inc.: *See*—
Quinn, Bert A. 3,039,804.
Ideal Fishing Float Co., Inc.: *See*—
Kimbrough, Lud H., Jr. 3,057,508.
Ideal Industries, Inc.: *See*—
Minobe, Mickey M. 3,016,774.
Scott, William J. 3,056,851.
Ideal Mfg. Co.: *See*—
Lamberson, Nathaniel D. 3,029,787.
Ideal Toy Corp.: *See*—
Gelfand, Nathan M. 3,031,797.
Katz, Abraham M. 3,029,552.
Love, Harold N. 3,067,776.
Nielsen, Edwin A., and Gelfand. 3,065,569.
Reiss, Oscar. 3,065,568.
Richards, Frank A. 3,055,165.
Stopek, Benjamin. 3,031,244.
Ideco Inc.: *See*—
Macy, James C. 3,022,511.
Iden, Charles C.: *See*—
Thomas, Lucius P., Jr., Hoyt, and Iden. 3,040,298.
Iding, Orville R., to Ferro Stamping Co. Multiple unit motor control circuit. 3,040,851, 6–26–62, Cl. 192—02.
Idol, James D., Jr., J. L. Callahan, and R. W. Foreman, to The Standard Oil Co. Process for the conversion of unsaturated aldehydes to the corresponding unsaturated acids. 3,021,366, 2–13–62, Cl. 260—530.
Idzi, Edward D. Apparatus for shaving ice. 3,017,127, 1–16–62, Cl. 241—257.
Idzi, Edward D. Apparatus for aerating a liquid. 3,017,-165, 1–16–62, Cl. 261—19.
Ifversen, Else N., K. Rubinstein, and K. T. J. Skagius, to Aktiebolaget Pharmacia. Certain nitrofuryl, thiadiazolyl amines. 3,025,303, 3–13–62, Cl. 260—306.8.
Igarashi, Kikuo, to Shionogi & Co., Ltd. [3-oxo-20-hydroxy-1,4,17(20)-pregnatriene-16-yljlen] acetic acid lactone, and intermediates therefor. 3,043,834, 7–10–62, Cl. 260—239.55.
Igarashi, Tadashi, to Sony Kabushikihaisha (Sony Corp.). Speaker mounting device. 3,045,776, 7–24–62, Cl. 181—31.
Igarashi, Tadashi, to Sony Kabushikikaisha (Sony Corp.). Portable electrical apparatus. 3,046,798, 7–31–62, Cl. 74—10.
Igaya, Kunio. Construction of a ski lift. 3,054,360, 9–18–62, Cl. 104—173.
Ignatjev, Vladimir. Self-priming cell. 3,057,948, 10–9–62, Cl. 136—90.
Ihrman, Kryn G., and T. H. Coffield, to Ethyl Corp. Organometallic compounds. 3,037,999, 6–5–62, Cl. 260—439.
Iida, Hideo, to P. J. K. K. Kaisha. Automatic bobbin winder for sewing machine. 3,058,437, 10–16–62, Cl. 112—220.
Iida, Hideo, to Prince Jidosha Kogyo Kabushiki Kaisha. Reverse stitching device combined with needle position changing mechanism for zigzag sewing machine. 3,060,-875, 10–30–62, Cl. 112—158.
Iida, Hideo, and M. Narlo, to Fuji Seimitsu Kogyo Kabushiki Kaisha (Known as Fuji Precision Machinery Co., Ltd.). Speed-changing cam device for zigzag sewing machines. 3,064,603, 11–20–62, Cl. 112—158.
Iikura, Shigetsune, to Sony Kabushikikaisha (Sony Corp.) Reel apparatus. 3,050,269, 8–21–62, Cl. 242—71.8.
Iikura, Shigetsune, to Sony Corp. Reel apparatus. 3,050,270, 8–21–62. Cl. 242—71.8.
Iizuka, Kazuaki: *See*—
Asai, Toshinobu, Aida, Iizuka, and Kajiwara. 3,036,958.
Ijzer, Jacobus A. L.: *See*—
Kohler, Jacob W. L., Dros, and Ijzer. 3,033,003.
Ikard, Wallace L.: *See*—
Burns, Kay N. and Ikard. 3,070,749.
Ikard, Wallace L., to Jersey Production Research Co. Seismic prospecting apparatus and method. 3,040,320, 6–19–62, Cl. 346—1.
Ikard, Wallace L., to Jersey Production Research Co. Seismic recording system. 3,040,321, 6–19–62, Cl. 346—1.
Ikeda, Carol K., to E. I. du Pont de Nemours and Co. Sealant compositions comprising poly-acetal compound, filler and drier. 3,053,792, 9–11–62, Cl. 260—41.
Ikeda, Carol K., to E. I. du Pont de Nemours and Co. Compositions comprising thermoplastic resin and vinyl cyclic acetal compound. 3,058,933, 10–16–62, Cl. 260—17.
Ikeda, Carol K., to E. I. du Pont de Nemours and Co. Coating composition containing 2-vinyl-1,3-cyclic acetal groups. 3,058,934, 10–16–62, Cl. 260—22.
Ikeda, Hatsuko: *See*—
Yabuta, Teijiro, Ikeda (Hatsuko), Shiroyanagi, Ikeda (Hiroshi), Fujimaki, Katayama, Tsupi, and Sato. 3,049,535.
Ikeda, Hiroshi: *See*—
Yabuta, Teijiro, Ikeda (Hatsuko), Shiroyanagi, Ikeda (Hiroshi), Fujimaki, Katayama, Tsuji, and Sato. 3,049,535.
Ikelheimer, Gerald S. Carrying case. 3,052,333, 9–4–62, Cl. 190—6.
Ikelheimer, Gerald S. Rivetting mechanism. 3,057,231, 10–9–62, Cl. 78—46.
Iketani, Taisho. Fuel charge valve assembly in gas-fueled cigarette lighter. 3,044,503, 7–17–62, Cl. 141—293.
Iketani, Taisho. Injection valve in a liquefied gas lighter. 3,044,504, 7–17–62, Cl. 141—293.
Iketani, Taisho. Injection valve in a liquefied gas lighter. 3,044,505, 7–17–62, Cl. 141—294.
Iketani, Taisho. Mechanism for control of flow rate of gaseous fuel in gas-fueled cigarette lighter. 3,048,991, 8–14–62, Cl. 67—7.1.
Iketani, Taisho. Liquid gas cigarette lighter. 3,066,514, 12–4–62. Cl. 67—7.1.
Ikeuchi, Kazuyuki. Device for drying veneers and plates. 3,064,363, 11–20–62, Cl. 34—145.
Ilavsky, Jan, and H. Herzog, to Schering Corp. 11-hydroxylation of steroids by Phoma microorganisms. 3,054,725, 9–18–62, Cl. 195—51.
Ilenda, Frank P.: *See*—
Everson, Howard E., and Ilenda. 3,015,589.
Iler, Ralph K.: *See*—
Bechtold, Ray B., Iler, and West. 3,028,234.
Iler, Ralph K., to E. I. du Pont de Nemours and Co. Composition comprising colloidal silica and a water-soluble phosphorus compound and articles prepared therefrom and process of preparing such articles. 3,041,205, 6–26–62, Cl. 117—129.
Ilford Ltd.: *See*—
Duffin, George F. 3,050,395.
Fry, Douglas J., and Lea. 3,035,917.
Keller, Ernst, Hindermann, and Jung. 3,038,802.
MacDonald, Eric. 3,050,393.
Neale, Denis M. 3,051,069.
Smith, Robert C. M., and Townley. 3,061,433.
Ilgenfritz, Lester M., H. R. Moore, and D. D. Robertson, to Bell Telephone Laboratories, Inc. Apparatus for field testing signal guided bodies. 3,016,514, 1–9–62, Cl. 340—3.
Iliff, Eric K. Silver-zirconia pink. 3,046,151, 7–24–62, Cl. 106—299.
Ilikon Corp.: *See*—
Sandven, Ole A. 3,060,395.
Iler, Werner J., to Globe Industries, Inc. Orthopedic brace. 3,042,028, 7–3–62, Cl. 128—80.
Iles, Van T., ¼ to R. O. Lippincott, and ½ to J. W. Ralls. Stable, four-legged sawhorse. 3,064,755, 11–20–62, Cl. 182—155.
Illich, George M., Jr., R. M. Robinson, W. D. Smart, and F. C. Garven, to Abbott Laboratories. Benzocaine process. 3,037,046. 5–29–62, Cl. 260—471.
Illinois Central Railroad Co.: *See*—
Baker, Claude B. 3,054,363.
Illinois Clay Products Co.: *See*—
Ekedahl, John C., and Veale. 3,044,889.
Illinois Condenser Co.: *See*—
Kurland, Jerome J. and Joseph J. 3,019,376.
Illinois Lock Co., The: *See*—
Gray, Raymond K., and Wolniak. 3,064,303.
Illinois Milling, Inc.: *See*—
Liebig, Joseph M. 3,027,167.
Illinois Railway Equipment Co.: *See*—
Sweger, Theodore J. 3,019,064.
Sweger, Theodore J. 3,027,203.
Illinois Testing Laboratories, Inc.: *See*—
Donath, Edwin W. 3,027,496.
Peltola, Veikko K. 3,015,953.
Illinois Tool Works: *See*—
Biesecker, Donald L. 3,033,624.
Flair, Henry J. 3,037,428.
Hanneman, Walter M. 3,033,410.
Lanius, James C., Jr. 3,037,221.
Pergande, Wilbur F. 3,015,151.
Pouplitch, Ougljesa J. 3,016,136.
Rapata, George M. 3,015,869.
Rapata, George M. 3,038,747.
Rayburn, Charles C. 3,022,369.
Rayburn, Charles C. 3,027,494.

Illinois Tool Works Inc. : *See*—
Biesecker, Donald L. 3,065,035.
Boyd, Thomas R. 3,037,542.
Boyd, Thomas R. 3 059,736.
Edwards, Bryant. 3,059,810.
Edwards, Bryant. 3,061,139.
Fisher, Julian V. 3,044,230.
Gouverneur, Minor F. H., II. 3,040,796.
Gutshall, Charles E. 3,032,089.
Gutshall, Charles E. 3,056,597.
Hull, Henry E., and Trumbull. 3,032,944.
Johnson, Andrew L. 3,040,924.
Lanius, James C., Jr. 3,032,807.
MacFarland, Willard C. 3 038,346.
Pomernacki, Henry. 3,059,317.
Poupitch, Ougljesa J. 3,038,599.
Rapata, George M. 3,038,602.
Rapata, George M. 3,057,001.
Rapata, George M. 3,069,962.
Rayburn, Charles C. 3,040,415.
Rayburn, Charles C. 3,056,939.
Rayburn, Charles C., and Black. 3,026,990.
Rayburn, Charles C., and Mullikin. 3,034,198.
Roeser, John O. 3,043,928.
Stern, William. 3,021,979.
Stern, William. 3,044,341.
Swick, Edwin G. 3,034,027.

Illis, Alexander, to The International Nickel Co., Inc. Treatment of lateritic cobalt-nickel ores. 3,058,824, 10–16–62, Cl. 75—115.

Illo, John B. Apparatus for receiving and treating waste materials. 3,023,425, 3–6–62, Cl. 4—126.

Illowsek, Anton. Expandable chucks. 3,017,192, 1–16–62, Cl. 279—2.

Illum-A-Rail, Inc. : *See*—
KaDell, Harold W. 3,016,478.
Ka Dell, Harold W. 3,034,756.

Illy, Hugo : *See*—
Koller, Eugen J., and Illy. 3,059,988.

Ilnyckyj, Stephan : *See*—
Oswald, Alexis A., Rupar, Ilnyckyj, and Nöel. 3,016,349.

Ilnyckyj, Stephan, and C. B. Rupar, to Esso Research and Engineering Co. Ethoxy-vinyl ester pour depressant for middle distillates. 3,048,479, 8–7–62, Cl. 44—62.

Ilon, Bengt E. Load handling device. 3,064,840, 11–20–62, Cl. 214—350.

Image Transfer Inc. : *See*—
Moeller, Carl A., Jr. 3,016,915.

Imamoto, Sadasuke : *See*—
Hirao, Motoso, Hamata, Kuwatsuka, Munekata, and Imamoto. 3,025,136.

Imaoka, Sumio : *See*—
Takahashi, Masao, Imaoka, and Kubouchi. 3,046,641.

Imber, Alfred G., to Aladdin Industries Ltd. Liquid fuel burners. 3,027,934, 4–3–62, Cl. 158—69.

Imelmann, Henry L., to Thermo Power, Inc. Thermoelectric generator. 3,064,063, 11–13–62, Cl. 136—4.

Imer, Jean L. P., to Compagnie de Saint-Gobain. Unsaturated polyester composition containing phenyl chlorophosphonates to reduce color. 3,020,256, 2–6–62, Cl. 260—45.4.

Imershein, Charles J., to Multi-Metal Wire Cloth Co., Inc. Filtering septum and method of making it. 3,052,360, 9–4–62, Cl. 210—489.

Imhof, Walter, deceased, by Waltraud Imhof, administratrix, to Karl Mogerle. Method of welding plastics. 3,056,712, 10–2–62, Cl. 156—306.

Imhof, Waltraud : *See*—
Imhof. Walter. 3,056,712.

Imhoff, Albert W., to Schantz Organ Co. Tremolo for organ. 3,018,682, 1–30–62, Cl. 84—348.

Imm, Lewis W., to General Precision Inc. Mechanical fire control computer solving trigonometric equations. 3,019,968, 2–6–62, Cl. 235—61.

Imm, Lewis W., to General Precision Inc. Integrating mechanism. 3,040,587, 6–26–62, Cl. 74—1.

Imm, Lewis W., R. I. Case, and C. Brandon, to General Precision Inc. Attack director. 3,042,297, 7–3–62, Cl. 235—61.5.

Immel, Ralph B., and B. C. Wells, to Westinghouse Electric Corp. Permanent magnet actuator for electric devices. 3,040,146, 6–19–62, Cl. 200—98.

Immel, Ralph C. Mud flaps. 3,019,031, 1–30–62, Cl. 280—154.5.

Immel, Ralph C. Pipe line plugs. 3,056,156, 10–2–62, Cl. 15—104.06.

Immermann, Milton : *See*—
Ensign, Robert H., Cardozo, Woods, and Immermann. 3,015,899.

Immermann, Milton, to The Hopp Press, Inc. Interlocking divider and molding assembly. 3,021,186, 2–13–62, Cl. 312—140.3.

Immohr, Harry J. Extrusion die construction. 3,038,420, 6–12–62, Cl. 107—14.

Immovilli, Silvio. Electrically operated pump assembly. 3,026,808, 3–27–62, Cl. 103—87.

Imoto, Minoru, and C. Y. Huang, to Fine Organics, Inc. Method of separating xylene isomers. 3,035,023, 5–15–62, Cl. 260—67.

Imoto, Minoru, and C. Y. Huang, to Fine Organics Inc. Cured reaction product of a xylene-formaldehyde resin and a phenol-formaldehyde condensate, and process for preparing same. 3,053,793, 9–11–62, Cl. 260—43.

Impact Extrusions, Inc. : *See*—
Nischan, Joseph V. 3,067,570.

Imparato, Edward T. Portable resilient marker. 3,067,717, 12–11–62, Cl. 116—173.

Imparato, Jack G. Rod adjustment clamps. 3,018,537, 1–30–62, Cl. 24—263.

Imparato, Jack G. Multiple product coupling clamp. 3,050,-802, 8–28–62, Cl. 24—81.

Imperial Chemical Industries Ltd. : *See*—
Andrew, Herbert F. 3,038 893.
Andrew, Herbert F., and Mee. 3,036,058.
Andrew, Herbert F., and Mee. 3,057,846.
Andrew, Herbert F., Stephen, and Tilley. 3,057,844.
Barlow, Peers R. 3,048,972.
Bayly, Charles, and Walkley. 3,044,256.
Beatson, Eric P., and Floyd. 3,049,473.
Berrie, Alistair H., and Vellins. 3,053,826.
Bovingdon, Hyett H. S., and Campbell. 3,035,970.
Bradley, Donald C. 3,018,273.
Browne, Anthony A. B., and Mather. 3,036,044.
Budziarek, Richard, and Coffey. 3,031,466.
Caton, John A. 3,049,517.
Caunt, Anthony D. 3,032,390.
Challis, Anthony A. L., and Mitchell. 3,036,137.
Chuffart, Robert C. 3,018,890.
Clark, Peter F., and Gamlen. 3,053,850.
Clark, Peter F., and Wardleworth. 3,053,849.
Clough, Harry. 3,019,269.
Cunningham, Kenneth G., and Baillie. 3,057,742.
Dean, Fred and Cotterill. 3,053,883.
Dent, Walter T. 3,065,269.
Deutsch, Kurt. 3,031,300.
Edwards, Harry, and Partridge. 3,035,775.
Edwards, Harry, and Partridge. 3,049,267.
Edwards, Harry, Partridge, Shanks, and Wilcock. 3,042,311.
Evans, Peter, and Brooke. 3,042,718.
Fentiman, William P., Ames, Morton, and Mead. 3,049,425.
Gee, Eric Gudgeon, and Stephenson. 3,019,200.
Gentles, Robert P. 3,042,666.
Goldschmid, Heinrich R. 3,053,777.
Greenhalgh, Norman. 3,053,732.
Gurton, Owen A., and Moody. 3,041,914.
Hadfield, Harry R., Ricketts, Simons, and Stephen. 3,042,477.
Hall, Robert A. 3,056,756.
Harding, Anthony J., and Young. 3,032,481.
Hepworth, Walter. 3,049,474.
Heslop, Robert N., Legg, Mawson, Stephen, and Wardleworth. 3,042,475.
Heslop, Robert N., and Reece. 3,065,191.
Hewson, Robert L., and Waterfall. 3,053,705.
Higgins, Thomas C. 3,054,776.
Hinton, Anthony J., and Morgan. 3,049,468.
Hinton, Anthony J., Morley, and Turner. 3,065,123.
Hirst, Stanley, and Aston. 3,049,035.
Howard, Harold T., and Marrable. 3,042,683.
Howard, Harold T., Slinger, and Wardleworth. 3,054,-792.
Howard, Harold T., Slinger, and Wardleworth. 3,054,-793.
Hull, Roy, and Swain. 3,036,073.
Jackson, Kenneth, and Bloom. 3,049,488.
Jones, William G. M., Leigh, and Madinaveitia. 3,035,978.
Jubb, Anthony H. 3,040,051.
Jubb, Anthony H. 3,040,052.
Kilby, William, and White. 3,019,140.
Lambert, James E., and Lewis. 3,068,791.
Langley, Bernard W. 3,053,827.
Leigh, Thomas. 3,036,106.
Leigh, Thomas. 3,036,136.
Lewis, Dennis A., and Small. 3,053,790.
Marchant, Ian. 3,053,911.
Martin, Ernest N., Barlle, and Crowther. 3,031,267.
McIntyre, James E., and Maclean. 3,055,870
McIntyre, James E., and Robertson. 3,055,868.
Miller, George W., and Rose. 3,045,015.
Miller, George W., and Rose. 3,046,276.
Miller, George W., and Rose. 3,053,844.
Mills, Walter P., Parsons, and Reed. 3,057,673.
Moyse, James A. 3,054,699.
Munro, Neil and Maclean. 3,050,533.
Munro, Neil, and Maclean. 3,050,548.
Pajaczkowski, Andrzej. 3,019,214.
Parmella, Ralph. 3,060,511.
Pearce, Thomas J. P., and Stannage. 3,063,936.
Pollock, John M. 3,055,926.
Pollock, John M. 3,055,927.
Price, Frederick C. 3,022,564.
Reed, Kenneth G., and Nicolson. 3,031,843.
Roberts, Hugh L. 3,032,597.
Roberts, Hugh L. 3,035,890.
Roberts, Hugh L. 3,035,892.
Roberts, Hugh L. 3,035,893.
Roberts, Hugh L. 3,053,744.
Roberts, Hugh L. 3,063,922.
Roberts Hugh L. 3,063,972.

Imperial Chemical Industries Ltd.: *See*—Continued
Robinson, Bertram D. C., Kirby, and Greenham. 3,031,291.
Rose, Francis L., and Hendry. 3,049,542.
Rose, John B. 3,065,214.
Salt, Albert E. 3,035,334.
Scott, Gerald. 3,042,663.
Seed, Leslie. 3,044,997.
Senior, Norman. 3,031,290.
Stanley, Thomas A. 3,035,303.
Taylor, Arthur W. C., and Dean. 3,064,043.
Taylor, Arthur W. C., and Dean. 3,064,046.
Taylor, James, Johnstone, and Montgomery. 3,023,462.
Telfer, Robert G. J. 3,066,124.
Turner, Harold C. 3,031,568.
Vellins, Cyril. 3,065,221.
Vincent, George C. 3,019,080.
Waring, Wilson S. 3,049,564.
Willis, Vincent. 3,042,833.
Young, Edwin H. P. 3,042,684.
Imperial Chemical Industries of Australia and New Zealand Ltd.: *See*—
Gunew, Dimiter. 3,067,132.
McWilliam, Ian G. 3,039,856.
Varcoe, Graeme L. 3,053,846.
Imperial-Eastman Corp.: *See*—
Franck, George E. 3,016,250.
Franck, George E. 3,027,884.
Franck, George E. 3,027,931.
Franck, George E. 3,041,723.
Franck, George E. 3,051,218.
Franck, George E. 3,059,686.
Franck, George E. 3,062,340.
Jackson, Harold E. 3,049,762.
Jackson, Harold E., and Moss. 3,021,571.
Imperial Electronics, Inc.: *See*—
Levine, Sidney, and Schmerzler. 3,056,603.
Impresa Pezzarotti & C.S.r.l.: *See*—
Pizzarotti, Pietro, Antonucci, and Leoneini. 3,069,983.
Imperial Foam Rubber Corp.: *See*—
Robbins, Ralph. 3,021,649.
Improved Machinery Inc.: *See*—
Rich, John P. 3,032,201.
Rich, John P. 3,059,862.
Rich, John P. 3,061,007.
Imthurn, Elmer R., and K. W. Wyatt. Target pistol with breech bolt locking mechanism. 3,039,366, 6–19–62, Cl. 89—138.
Inaba, Yanosuke, K. Miyake, and G. Kimura, to Toyo Koatsu Industries, Inc. Method for the preparation of polyureas. 3,046,254, 7–24–62, Cl. 260—77.5.
Inaba, Yanosuke, K. Miyake, and G. Kimura, to Toyo Koatsu Industries, Inc. Linear polyureas. 3,054,777, 9–18–62, Cl. 260—77.5.
Inc, Leonard J., and W. H. Seagraves, to ISI, Inc. Control and annunciator system. 3,039,086, 6–12–62, Cl. 340—223.
Incera, Roberto, deceased; H. M. de Incera, heiress. Closure for receptacle. 3,067,897, 12–11–62, Cl. 215—25.
Inchalik, Elroy J.: *See*—
Kirshenbaum, Isidor, Mirviss, and Inchalik. 3,030,402.
Indair, Inc.: *See*—
Gunther, William H., Jr. 3,047,080.
Indak Mfg. Corp.: *See*—
Soreng, John E. 3,054,879.
Independent Lock Co.: *See*—
McHale, Francis V. 3,059,268.
Inderwiesen, Frank H., to United States of America, Civil Defense. Electrical intelligence receiver and signal emitter. 3,035,251, 5–15–62, Cl. 340—171.
Inderwiesen, Frank H., to United States of America, Office of Civil Defense. Frequency selective voltage indicator. 3,064,190, 11–13–62, Cl. 324—80.
Indest, Heinz, and G. Meyer, to Vereinigte Glanzstoff-Fabriken AG. Process for the production of hexamethylene diamine. 3,048,635, 8–7–62, Cl. 260—583.
Indian River Poultry Farms, Inc.: *See*—
Flory, Frank M. 3,037,479.
Indiana General Corp.: *See*—
Goldthwaite, Val, and Schlacht. 3,060,376.
Snyder, Christopher L., and Straley. 3,031,649.
Zerbes, Georg. 3,036,009.
Indiana Steel & Wire Co., Inc.: *See*—
Kitselman, Harry L. 3,051,202.
Indiana University Foundation: *See*—
Carmack, Marvin, and Weinstock. 3,060,187.
Indico Valve Corp.: *See*—
Dilliner, Herman L. 3,055,394.
Dilliner, Herman L. 3,059,449.
Indikon Co., Inc. The: *See*—
Friedman, Bernard L. 3,035,219.
Indorante, Sam. Wall passage liner and doors therefor. 3,062,278, 11–6–62, Cl. 160—92.
Inductosyn Corp.: *See*—
Farrand Clair L. 3,064,218.
Tripp, Robert W. 3,056,909.
Tripp, Robert W. 3,056,953.
Tripp, Robert W. 3,058,657.
Tripp, Robert W. 3,066,868.
Tripp, Robert W., and Winget. 3,045,230.
Indufi S.A. de Participations: *See*—
Schluchter Jean. 3,050,047.
Indugas, Gesellschaft fur industrielle Gasverwendung m.b.H.: *See*—
Schmidt, Theodor, and Wilde. 3,022,057.
Industrial Acoustics Co., Inc.: *See*—
Sanders, Guy J., Rink, and Oppenheim. 3,033,307.
Industrial Controls Corp.: *See*—
Thomas, Albert G. 3,055,273.
Industrial Development Co.: *See*—
Erickson, Harold E., N. E. and C. V. Nelson, and Schubert. 3,019,478.
Erickson, Harold E., N. E. and C. V. Nelson, and Schubert. 3,019,479.
Schubert, Dale L. 3,033,391.
Industrial Development Co., Inc.: *See*—
Kiser, Richard D. 3,059,676.
Industrial Development Co. (Establishment): *See*—
Maillard, Felix. 3,034,192.
Rubissow, George A. 3,060,498.
Industrial Development Engineering Associates, Inc.: *See*—
Mathis, Cecil E. 3,032,686.
Towler, James F. 3,054,058.
Industrial Electronic Hardware Corp.: *See*—
Gluck, William. 3,026,496.
Gluck, William. 3,027,004.
Gluck, William. 3,031,635.
Gluck, William. 3,034,091.
Gluck, William. 3,043,001.
Offerman, Seymour. 3,041,573.
Industrial Electronics Inc.: *See*—
Reznowski, Julian H. 3,061,775.
Weible, George A. 3,039,038.
Industrial Filter & Pump Mfg. Co.: *See*—
Riley, Clay W. 3,017,996.
Industrial Gravure Co.: *See*—
Lear, Floyd R., Sr. 3,040,754.
Ott, Kenneth A., and Seifert. 3,066,592.
Industrial Hard Chrome Plating Co. of California: *See*—
Lapham, Sidney D. 3,036,967.
Industrial Machinery Co., Inc.: *See*—
Harmon, Billy J. 3,037,613.
Industrial Mills, Inc.: *See*—
Vana, George E. 3,066,385.
Industrial Nucleonics Corp.: *See*—
Barnett, Glenroy W., and Binsel. 3,066,562.
Bossen, David A. 3,038,401.
Butters, Robert B. 3,064,357.
Cennamo, Anthony D. 3,021,475.
Chope, Henry R. 3,039,687.
Chope, Wilbert E. 3,040,807.
Dewey, Rex W., and Norwich. 3,029,417.
Dukes, John R., and Eggman. 3,050,626.
Francis, Kenneth E., and Pinkley. 3,039,046.
Hanken, Albert F. G. 3,044,297.
Hays, Willard C., and Doering. 3,015,129.
Hichman, Richard W. 3,065,466.
Levadi, Victor S. 3,052,242.
Spergel, Philip. 3,045,222.
Spooner, David L. 3,026,033.
Spooner, David L. 3,049,621.
Varner, Donald E. 3,054,310.
Warren, Richard F., and Spergel. 3,024,680.
Industrial Ovens, Inc.: *See*—
Alexeff, Alexander V., and Richards. 3,045,360.
Alexeff, Alexander V., and Richards. 3,054,547.
Richards, Howard R., and Alexeff. 3,069,056.
Industrial Physics, Inc.: *See*—
Vall, Walter. 3,036,458.
Industrial Powertronix, Inc.: *See*—
Ofner, Frank R. 3,056,293.
Industrial Products Co.: *See*—
Patterson, Thomas A., Jr. 3,047,875.
Patterson, Thomas A., Jr. 3,058,507.
Industrial Refrigeration Co., Inc.: *See*—
Wells, Earl P. 3,018,561.
Industrial Research Organizations: *See*—
Robinson, Bertram D. C., Kirby, and Greenham. 3,031,291.
Industrial Service Co.: *See*—
D'Amato, Raphael A., and Rehm. 3,033,740.
D'Amato, Raphael A., and Rehm. 3,033,741.
D'Amato, Raphael A., and Rehm. 3,033,742.
Industrial Shoe Machinery: *See*—
Schultz, George, and Dziki. 3,058,131.
Industrial Woodworking Machine Co., Inc.: *See*—
Cromeens, Jeff Y. 3,033,341.
Industrie Chimiche Porto Marghera, (I.C.P.M.), S.p.A.: *See*—
Trupiano, Roberto, and Zanon. 3,049,405.
Industrie-Compagnie: *See*—
Jacobs, Heinz, Claesgens, and Heyn. 3,039,744.
Industrie-Gesellschaft fur Schappe: *See*—
Wallays, Jean C. 3,069,838.
Industrielle de Brevets et d'Etudes S.I.B.E., Societe: *See*—
Mennesson, Andre L. 3,061,286.
Industrielle de Ferblanterie, Societe: *See*—
Pitavy, Pierre F. M. 3,033,255.
Industrielle des Piles Electriques Cipel, Compagnie: *See*—
Vic, Raymond. 3,063,004.
Industrielle des Telephones, Compagnie: *See*—
Burstow, Pierre, and Monin. 3,065,306.
Industrielle Generale de Mecanique Appliquee S.I.G.M.A., Societe: *See*—
Pigeroulet, Jean. 3,062,027.
Pomper, Victor. 3,062,301.

Industries, Inc. : *See*—
Drell, Leonard B., and Rubin. 3,038,816.
Industriewerk Schaeffler oHG : *See*—
Bensch, Emil, and Brugger. 3,053,591.
Litz, Karl. 3,025,590.
Schaeffler, Georg. 3,028,204.
Schaeffler, Georg. 3,046,064.
Industrija Skroba : *See*—
Loncar, Stevan. 3,024,115.
Infilco Inc. : *See*—
Fowler, Leslie L. 3,017,031.
Ochs, John H. 3,038,608.
Information Systems, Inc. : *See*—
White, Richard L., and Tellefsen. 3,068,365.
Ingala, Frank J. Method and composition for coating molds. 3,037,873, 6–5–62, Cl. 106—38.23.
Ingall, Lyle R. Oar holder. 3,064,285, 11–20–62, Cl. 9—26.
Ingalls, Arthur L. : *See*—
Polan, Lincoln M., Cheuvront, Ingalls, Strom, and Muir. 3,025,750.
Ingalls, Wyatt O. : *See*—
Seamans, Donald C., and Ingalls. 3,050,286.
Ingber, Oscar H. Device for measuring the width or diameter of fixed or movable tapes and wires. 3,017,801, 1–23–62, Cl. 88—14.
Ingellis, John, to The Reliance Electric and Engineering Co. Variable belt-tensioning device for speed-varying transmission. 3,035,453, 5–22–62, Cl. 74—230.17.
Ingelman, Bjorn G.-A. : *See*—
Flodin, Per G. M., and Ingelman. 3,042,667.
Ingenieurbureau Dr.-Ing. Alfred J. Buchi A.G. : *See*—
Buchi, Alfred. 3,015,323.
Buchi, Alfred. 3,042,012.
Ingerman, Peter Z., to Philco Corp. Pattern suppressed counter circuit. 3,054,059, 9–11–62, Cl. 328—42.
Ingersoll, Elmer W., Jr : *See*—
Ingersoll, Robert D. and E. W. 3 016,648.
Ingersoll Milling Machine Co., The : *See*—
Kaufmeister, Frederick J. 3,034,408.
Selorg, Earnest Y. 3,027,813.
Turner, Harold H. 3,015,812.
Van Roojen, Jan. 3,022,680.
Wagner, Elmer K. 3,034,715.
Ingersoll-Rand Co. : *See*—
Beaumont, Richard W. 3,059,619.
Blank, Charles E. 3,030,936.
Brkich, Alexander. 3,067,692.
Brunstetter, Charles H. 3,058,481.
Carlson, Everett C., and Adams. 3,057,416.
Dean, Robert C., Jr., and Aukesman. 3,070,894.
Dean, Robert C., Jr., and Shavit. 3,061,273.
Hornschuch, Hanns. 3,038,411.
Hornschuch, Hanns. and Webb. 3,039,442.
Howe, Frank D. 3,039,834.
Kurt, Ewald H. 3,055,343.
Lincoln, Paul A. 3,051,134.
Lincoln, Paul A. 3,063,665.
Loss, Isidore R. 3,035,599.
Marsden, John B. 3,057,543.
McGahan, Wallace A., and Hornschuch. 3,062,554.
Morrison, William A. 3,055,441.
Morrison, William A. 3,064,741.
Morrison, William A., and Kurt. 3,055,647.
Newcomb, Wallace K., and Warming. 3,068,707.
Perry, William A. 3,057,938.
Shepherd, Benjamin F. 3,063,833.
Seyridakis, Emmanuel G. 3,070,201.
Stoker, Robert J., and Board. 3,057,602.
Thompson, Robert L. 3,061,024.
Vilmeding, John B. 3,061,147.
Waibel, Anthony J. 3,048,411.
White, James C. 3,063,405.
White, Kenneth H. 3,045,892.
Ingersoll, Robert D. and E. W. Mechanical fishing device. 3,016,648, 1–16–62, Cl. 43—15.
Ingersoll, Ward H. Rotary work positioning and indexing table. 3,049,193, 8–14–62, Cl. 188—69.
Ingersoll, Ward H., and R. Rambeau, said Ingersoll assor. to said Rambeau. Apparatus for indicating comfortable and uncomfortable ranges in temperature and humidity. 3,053,-090, 9–11–62, Cl. 73—336.
Ingham, Robert M., Jr., to Deering Milliken Research Corp. Bobbin transfer arrangement. 3,024,887, 3–13–62, Cl. 198—21.
Ingham, Robert M., Jr., to Deering Milliken Research Corp. Bobbin handling apparatus. 3,031,059, 4–24–62, Cl. 198—33.
Ingham, Robert M., Jr., to Deering Milliken Research Corp. Brake arrangement. 3,044,733, 7–17–62, Cl. 242—129.8.
Ingham, Robert M. Jr., to Deering Milliken Research Corp. Pneumatic doffing arrangement. 3,059,405, 10–23–62, Cl. 57—52.
Ingham, Robert M., Jr., to Deering Milliken Research Corp. Doffing carrier arrangement and method. 3,059,406, 10–23–62, Cl. 57—52.
Ingles, Glenn R. Method of and product for hard facing. 3,066,402, 12–4–62, Cl. 29—420.5.
Ingleson James F. : *See*—
Lawrence, Thomas F., and Ingleson. 3,016,227.
Inglis, Bruce D. Pressure controlled spray device. 3,053,-461, 9–11–62, Cl. 239—411.
Inglis, John, Co. Ltd. : *See*—
Hart, Harry H. 3,022,820.
Hart, Harry H. 3,025,909.
Ingman, Thomas M., to Electrosolids Corp. Transistor switching circuits. 3,041,472, 6—26–62, Cl. 307—88.5.
Ingold, Hans. Parking system including carriage locking and unlocking apparatus. 3,038,415, 6–12–62, Cl. 104—48.
Ingold, Hans. Storage assembly. 3,052,415, 9–4–62, Cl. 238—10.
Ingold, John H., and R. H. Pry, to General Electric Co. Positive temperature coefficient of resistivity resistor. 3,037,942, 6–5–62, Cl. 252—519.
Ingold, Walter M. : *See*—
Richterkessing, Frank H., Brian, and Ingold. 3,068,588.
Ingolia, Anthony J., to General Motors Corp. Combination dishwasher, sink, garbage disposal, and cabinet structure therefor. 3,059,653, 10–23–62, Cl. 134—89.
Ingraham Co. The : *See*—
Sidell, Philip A. 3,027,469.
Sidell, Philip A., Kaniwec, and Burgeson. 3,034,280.
Ingraham, John N., and T. J. Swoboda, to E. I. du Pont de Nemours and Co. Modified chromium oxide ferromagnetic compositions, their preparation and use. 3,034,988, 5–15–62, Cl. 252—62.5.
Ingraham, John N., and T. J. Swoboda, to E. I. du Pont de Nemours and Co. Ferromagnetic chromium oxides containing fluorine and their preparation. 3,068,176, 12–11–62, Cl. 252—62.5.
Ingraham, Robert C. : *See*—
Hunt, Robert E., Ingraham, and Pietenpol. 3,066,053.
Ingraham, Robert C., to Sylvania Electric Products Inc. Method for manufacturing alloyed junction semiconductor devices. 3,036,937, 5–29–62, Cl. 148—1.5.
Ingraham, Robert C., and F. M. Thomas, to Sylvania Electric Products Inc. Method and device for making connections in transistors. 3,065,525, 11–27–62, Cl. 29—190.
Ingram, Alvin R., to Koppers Co., Inc. Method of producing self-extinguishing foamable polystyrene by brominating foamable polystyrene in aqueous suspension. 3 039,977, 6–19–62, Cl. 260—2.5.
Ingram, Alvin R., and L. F. Guziak, to Koppers Co., Inc. Coating composition comorising an epoxidized cresol-formaldehyde resin and a copolymer of styrene, process for preparing same, and process for coating articles therewith. 3,037,958, 6–5–62, Cl. 260—43.
Ingram, Carl B., and L. E. Watson. Coupling carriage for articulated mobile sprinkler lines. 3,057,559, 10–9–62, Cl. 239—213.
Ingram, Derek G. W., to The General Electric Co. Ltd. Telecommunication systems. 3,047,678, 7–31–62, Cl. 179—175.31.
Ingram Glen E. Wire attaching clip. 3,031,170, 4–24–62, Cl. 256—57.
Ingram, Hubert O., and E. C. Cavasos. Utility scoop. 3,043,-033, 7–10–62. Cl. 37—130.
Ingram, Maxwell, to McNab, Inc. Salinity indicating system with automatic temperature compensation including alarm. 3,029,379, 4–10–62, Cl. 324—30.
Ingram, Maxwell, to Leonard Spark Plug Co., Inc. Spark plug. 3,048,735, 8–7–62, Cl. 313—143.
Ingram, Orville, to Unitcast Corp. Drop end gondola cars. 3,029,748, 4–17–62, Cl. 105—406.
Ingres, Jeannot G., to Kelsey-Hayes Co. Limiting device for automatic brake shoe adjuster. 3,017,962, 1–23–62, Cl. 188—79.5.
Ingvaldsen, Bernt, to Emil Lange and National Industri, Aktieselskabet. Electrical switch. 3,046,376, 7–24–62, Cl. 200—148.
Ingwersen, Frank H. : *See*—
May, Richard L., and Ingwersen. 3,037,390.
Ingwersen, Richard C., to Mechanical Products, Inc. Circuit breaker and panel assembly. 3,056,010, 9–25–62, Cl. 200—168.
Inland Container Corp. : *See*—
Layne, Harold W., Sr. 3,023,945.
Layne, Harold W., Sr. 3,055,569.
Lovett, William E., and Bennett. 3,056,338.
Mueller, Ernest R., and Johnston. 3,022,885.
Inland, N.V. : *See*—
Zilver, Edwin. 3,017,910.
Inland Steel Co. : *See*—
Bernick, Leslie M., and Roelofs. 3,047,420.
Crane, Wilbur G. 3,052,575.
Hill, Uno T. 3,050,847.
Hill, Uno T. 3,062,726.
Klygis, Mindaugas J. 3,022,103.
Madrzyk, Edmund S., and Gibson. 3,050,991.
Mehler, Ralph G., and Rothfuss. 3,056,694.
Montgomery, John C. 3,047,369.
Roelofs, Henry M. 3,041,201.
Shipley, Kenneth C. 3,053,523.
Werner, Tage. 3,030,977.
Inman, Byron N., to E. I. du Pont de Nemours and Co. Process for making hydrogen cyanide. 3,056,655, 10–2–62, Cl. 23—151.
Inman, Charles E., R. E. Oesterling, and E. A. Tyczkowski, to Pennsalt Chemicals Corp. Perchloryl fluoride process for fluorination of active hydrogen compounds. 3,030,408, 4–17–62. Cl. 260—475.

Inman, Charles E., R. E. Oesterling, and E. A. Tyczkowski, to Pennsalt Chemicals Corp. Perchloryl aromatic compounds. 3,067,211, 12–4–62, Cl. 260—350.
Inman, Charles E., R. E. Oesterling, and E. A. Tyczkowski, to Pennsalr Chemicals Corp. Perchloryl aromatic compounds. 3,070,593, 12–25–62 Cl. 260—197.
Inman, Charles E., R. E. Oesterling, and E. A. Tyczkowski, to Pennsalt Chemicals Corp. Perchloryl aromatic compounds. 3,070,609, 12–25–62, Cl. 260—350.
Inman, Donald A : *See*—
Inman, Ross H., D. A., and G. F. 3,043,097.
Inman, Geoffrey S., to Continental Can Co., Inc. Apparatus and method for testing and detecting leaky cups. 3,039,-294, 6–19–62, Cl. 73—45.1.
Inman, George E., to General Electric Co. Panel-shaped fluorescent lamp. 3,047,763, 7–31–62, Cl. 313—109.
Inman, Gerald F. : *See*—
Inman, Ross H., D. A., and G. F. 3,043,097.
Inman, Robert M. Hanger bracket for bottle cartons. 3,033,-377, 5–8–62, Cl. 211—96.
Inman, Ross H., D. A., and G. F. Exhaust pipe attachment. 3,043,097. 7–10–62, Cl. 60—30.
Innelli, Louis N. : *See*—
Pellegrino, Michael N., and Innelli. 3,063,164.
Innerfield, Irving. Method of administering streplokinase systematically. 3,019,167, 1–30–62, Cl. 167—73.
Innes, William B. : *See*—
Andreatch, Anthony J., and Innes. 3,027,241.
Michael, Malden W., and Innes. 3,032,512.
Innes, William B., to American Cyanamid Co. Method of oxidizing hydrocarbon constituents of exhaust gases. 3,025,132, 3–13–62, Cl. 23—2.
Innes, William B., M. Michael, and N. Chomitz, to American Cyanamid Co. Preparation of a microspheroidal silica-alumina fluid cracking catalyst. 3,023,172, 2–27–62, Cl. 252—455.
Innis, Robert T., to Westinghouse Electric Corp. Lightning arrester. 3,018,406, 1–23–62, Cl. 315—36.
Innis, Robert T., to Westinghouse Electric Corp. Lightning arrester. 3,018,407, 1–23–62, Cl. 315—36.
Innis, Robert T., to Westinghouse Electric Corp. Lightning arrester. 3,036,239, 5–22–62, Cl. 315—36.
Innocenti, Scipione, to S.A.S.I.B.-S p.A. Scipione Innocenti-Bologna. Springstorage rotary cutting device. 3,015,978, 1–9–62, Cl. 83—324.
Innocenti Soc. Gen. per l'Industria Metallurgica e Meccanica : *See*—
Torre, Pier L. 3,059,624.
Torre, Pier L. 3,059,625.
Innocenti Societa Generale per Industria Metallurgica e meccanica, Societe dite : *See*—
Berthiez, Charles W. 3,035,496.
Innoventions, Inc. : *See*—
Breneman, James C. 3,028,616.
Inoue, Kikashi, Rotating speed adjusting device. 3,049,098, 8–14–62, Cl. 121—33.
Inoue, Kiyoshi. Electric power supply apparatus for electric discharge machining. 3,054,931, 9–18–62, Cl. 315—205.
Inoue, Kiyoshi. Electric welding method and apparatus. 3,060,300, 10–23–62, Cl. 219—110.
Inoue, Kiyoshi. Method of producing semiconductors and semiconductor elements utilizing electric spark discharge. 3,061,712, 10–30–62, Cl. 219—100.
Inoue, Yoshiki, N. Fukuoka, and S. Matsumoto. Process of preparing sulfide phosphors. 3,028,339, 4–3–62, Cl. 252—301.6.
Inouye, George T., to Technicolor Corp. Bandwidth-reduction system. 3,037,083, 5–29–62, Cl. 179—15.55.
Inreco, Stockholm, AB : *See*—
Lenning, Alvar. 3,018,348.
Inredeco, Inc. : *See*—
Abt, Walter. 3,042,242.
Insana, Franco. Hair curler. 3,025,862, 3–20–62, Cl. 132—42.
Insenring, Larrie L. : *See*—
Hambrecht, Albert H., Bartels, Insenring, and Rowe. 3,017,698.
Inshaw, Thomas H. : *See*—
Harmon, Wallace J. 3,055,622.
In-Sink-Erator Mfg. Co. : *See*—
Wieczorek, Eugene E. 3,025,007.
Insinooritoimisto-Engineering Bureau R.T. Hukki : *See*—
Hukki, Risto T. 3,056,561.
Hukki, Risto T. 3,064,806.
Inskip, Harold K., and E. V. Kring, to E. I. du Pont de Nemours and Co. Preparation of polyvinyl alcohol. 3,033,-843, 5–8–62, Cl. 260—91.3.
Insolio, Thomas A., P. J. Magrini, Sr., R. Carini, and Z. C. Clements, to American Window Glass Co. Glass cutter trolley unit. 3,018,587, 1–30–62, Cl. 49—48.
Installationsfirma Allan Leffler : *See*—
Leffler, Gustav A. 3,025,446.
Instant-Fold Products, Inc. : *See*—
Silver, Julian. 3,022,808.
Instant Synchronization Corp. : *See*—
Gunst, Dennis. 3,049,965.
Institut de Recherches de la Siderurgie : *See*—
Beaujard, Louis, Maeder, and Pinard. 3,048,031.
Leroy, Pierre, and Simon. 3,062,524.
Institut de Recherches de la Siderurgie Francaise : *See*—
De Saint-Martin, Lucien. 3,053,420.
Leroy, Pierre, and Simon. 3,053,525.
Institut Dr. Ing. Reinhard Straumann A.G. : *See*—
Bourquin, Jean. 3,034,286.
Straumann, Reinhard. 3,041,163.
Straumann, Reinhard, and Karpf. 3,041,058.
Institut Francais du Petrole des Carburants et Lubrifiants : *See*—
Baumgartner, Pierre. 3,067,572.
Baumgartner, Pierre. 3,069,476.
Hellin, Michel, Coussemant, Lumbroso, Servaud, and Alexandre. 3,057,923.
Hellin, Michel, Coussemant, Lumbroso, Servaud, and Alexandre. 3,060,238.
Hellin, Michel, Coussemant, Lumbroso, Servaud, and Alexandre. 3,060,239.
Hellin, Michel, Coussemant, Lumbroso, Servaud, and Alexandre. 3,060,240.
Hugel, Georges, and Lerer. 3,050,538.
Le Boucher, Bernard. 3,062,612.
Institute for Gravitational Strain Pathology, Inc. : *See*—
Jungmann, Martin. 3,032,034.
Institute of Paper Chemistry, The : *See*—
McKee, Robert C. 3,033,708.
Institute of Textile Technology : *See*—
Fornes, Gaston G. 3,021,664.
Helberg, Örnulf E. 3,027,069.
Institutional Industries, Inc. : *See*—
Johnson, Axel E. F., and Mize. 3,054,638.
Mize, William E. 3,021,889.
Instituto Cubano de Investigaciones Tecnologicas : *See*—
De la Vega Falcon, Jose R., and Rodriquez. 3,051,611.
Instituto Nacional de Industria : *See*—
Municio, Vincente M. 3,034,222.
Vian-Ortuno, Angel. 3,047,364.
Institutum Divi Thomae Foundation : *See*—
Sperti, George S., and Lommel. 3,052,815.
Instructomatic, Inc. : *See*—
Knight, Sidney, and E. 3,069,789.
Instruments for Industry, Inc. : *See*—
Gregson, Alvero C. 3,044,038.
Gregson, Alvero C. 3,044,039.
Instruments, Inc. : *See*—
Rosso, John B. 3,067,364.
Insul-8-Corp. : *See*—
Scofield, Donald H. 3,033,916.
Scofield, Donald H. 3,060,260.
Insul-Fil Co., Inc. : *See*—
Rapp, Harry E. 3,045,709.
Insul-Seal Products, Inc. : *See*—
Moffett, Robert S. 3,027,326.
Insulwool Products Proprietary Ltd. : *See*—
Cullen, Frank S. 3,049,784.
Integrated Development and Mfg. Co. : *See*—
Davis, Noel. 3,056,599.
Intelligent Machines Research Corp. : *See*—
Shepard, David H. 3,056,033.
Interchemical Corp. : *See*—
Interchemical Corp. : *See*—
Bernardi, Dominic J., Tringal, Roth, and Engle. 3,017,-374.
Carlick, Daniel J., Kennedy, Kutik, and Roth. 3,039,979.
Czeropski, Robert S., Nocek, and Burachinsky. 3,031,-961.
Dehn, Joseph W., Jr., Eltonhead, and Pizzarello. 3,057,-848.
Dunne, Arthur J., and Bownes. 3,034,997.
Frieser, Rudolf G. 3,015,569.
Frieser, Rudolf G., and Scardaville. 3,067,052.
Gaylord, Norman G. 3,028,359.
Gaylord, Norman G. 3,035,008.
Gaylord, Norman G. 3,058,965.
Gaylord, Norman G. 3,060,144.
Gaylord, Norman G. 3,062,763.
Gaylord, Norman G. 3,062,776.
Greubel, Paul W. 3,053,178.
Hurley, Daniel R., and McHugh. 3,066,679.
Kutik, Leon. 3,017,293.
McHugh, John F., and Adhikary. 3,053,177.
Resnick, Paul, and Luzzi. 3,028,377.
Rowland, Charles S., F. and A. Varron. 3,028,349.
Tringali, Alfred M. 3,056,762.
Van Kirk, William, Weiss, and Mowitz. 3,057,692.
Varron, Arleen S. 3,037,872.
Intercompany Corp. : *See*—
Gutzmer, Ernest R. 3,059,560.
Interconsult, AB : *See*—
Carlsen, Helmuth W. 3,058,753.
Intercontinental Equipment Co., Inc. : *See*—
Harvey, John T. C. 3,048,907.
Interlego A.G. : *See*—
Christiansen, Godtfred K. 3,034,254.
Intermountain Research and Engineering Co., Inc. : *See*—
Cook, Melvin A., Farnam, Malstrom and Peterson. 3,037,452.
Cook, Melvin A., and Pack. 3,037,453.
International Associates : *See*—
Budofsky, Seymour S. 3,052,329.
Greenwald, Harry. 3,053,946.

International Basic Economy Corp.: *See*—
Collins, John E. 3,023,777.
Collins, John E. 3,028,165.
Collins, John E. 3,035,611.
Hunt, Nathan C. 3,016,917.
Hunt, Nathan C. 3,043,335.
Williams, Robert K. 3,067,726.
International Business Machines Corp.: *See*—
Abzug, Irving. 3,017,620.
Aghajanian, Haroutioun A. 3,065,182.
Akmenkalns, Ivars G. 3,015,740.
Akmenkalns, Ivars G. 3,029,351.
Allais, David C., Litz, and Vogel. 3,067,333.
Allen, James D., Jr. 3,027,549.
Allen, James D., Jr. 3,063,537.
Allen, Lowell G. 3,024,981.
Altenau, Edward E., Leverett, and McGregor. 3,065,460.
Ames, Irving. 3,069,973.
Anderson, John L. 3,021,439.
Anderson, John L. 3,021,440.
Anderson, John L. 3,022,951.
Anderson, John L. 3,031,586.
Anderson, John L. 3,047,230.
Anderson, John L. 3,050,683.
Anderson, John L., and Hand. 3,019,354.
Anderson, Owen T. 3,050,721.
Anderson, Richard L., and O'Rourke. 3,046,459.
Anderson, Richard L., and O'Rourke. 3,067,387.
Andreen, Theodore H., Flavin, and Wicklund. 3,037,-768.
Anthony, Gilbert C., and Boyer. 3,059,120.
Armstrong, Philip N., Marcus, and Nelson. 3,034,102.
Arneth, August P., Jr. 3,058,655.
Aronis, William. 3,065,461.
Aweida, Jesse L., and Humphrey. 3,026,419.
Bakelaar, John H., and Hudson. 3,041,069.
Baker, Joseph C., and Jackowski. 3,024,972.
Barbeau, Raymond A., and Close. 3,064,885.
Baskin, Herbert B. 3,052,412.
Batley, James V. 3,046,523.
Battison, Alvin H., Hix, Smith, and Wilkerson. 3,055,-582.
Battison, Alvin H., and Smith. 3,028,584.
Beck, John W. 3,018,387.
Beck, John W. 3,020,704.
Beck, John W. 3,032,719.
Beesley, James P. 3,026,481.
Beesley, James P. 3,063,629.
Belcastro, Louis E. 3,045,187.
Benson, Allen B. 3,065,363.
Bertelsen, Bruce I. 3,024,761.
Bertelsen, Bruce I., and Kump. 3,058,112.
Betts, Robert. 3,041,598.
Blake, Carl B., and Miller. 3,054,751.
Blake, Robert M., and Shea. 3,065,356.
Blakney, Robert M., Bode, Neyhart, and Potok. 3,041,-167.
Bloch, Erich, and Paulsen. 3,070,706.
Blumberg, Rex H., and Kraus. 3,021,434.
Bond, George L. 3,059,146.
Booth, Richard R. 3,023,400.
Booth, Richard R. 3,056,117.
Brennemann, Andrew E. 3,023,325.
Brennemann, Andrew E. 3,037,196.
Brennemann, Andrew E. 3,047,743.
Brennemann, Andrew E., De Lano, and Young. 3,042,904.
Brennemann, Andrew E., Wild, and Wolensky. 3,054,-091.
Brett, Morton, and Schiff. 3,016,193.
Brock, Geoffrey E., and Wajda. 3,036,898.
Brooks, Frederick P., Jr., and Sweeney. 3,048,332.
Brown, Edgar A. 3,043,505.
Brown, Edgar A., and Schacht. 3,049,990.
Brown, Joseph L. 3,036,773.
Brown, Joseph L., Layden, Taylor, and Weiss. 3,043,509.
Brown, Joseph L., Taylor, and Stoughton. 3,048,333.
Brown, Richard P. 3,046,485.
Brown, Robert J. 3,042,816.
Brownlow, James M. 3,042,618.
Brownlow, James M., and Eichbaum. 3,028,337.
Brownlow, James M., and Schuenzel. 3,042,619.
Bruce, George D. 3,021,432.
Bruce, George D., and Logue. Re. 25,262.
Brunner, Russell K. 3,057,970.
Brunschweiger, Alfred. 3,068,366.
Brunschweizer, Alfred, and Thompson. 3,040,258.
Buchholz, Werner, and Schuenzel. 3,060,418.
Buelow, Fred K. 3,040,300.
Buelow, Fred K. 3,054,911.
Bullock, Andrew J., Jr. 3,045,228.
Busch, Donald F. 3,042,818.
Buslik, Walter S. 3,042,756.
Buslik, Walter S., and Witt. 3,035,295.
Cadwallader, Robert H. 3,021,938.
Cannon, Maxwell R. 3,056,032.
Carroll, Fred M., and Gurley. 3,015,264.
Carroll, Fred M., and Gurley. 3,033,564.
Carroll, William N. 3,016,467.
Carroll, William N. 3,041,474.
Carroll, William N., and D'Antonio. 3,022,945.
Carroll, William N., and Tilton. 3,064,896.
Carter, Ivan P. V. 3,070,707.
International Business Machines Corp.: *See*—Continued
Cartier, Philip P. 3,048,785.
Case, Richard P. 3,046,416.
Caswell, Hollis L. 3,036,933.
Caswell, Hollis L., and Chiou. 3,058,852.
Chao, Shih C. 3,027,082.
Cheroff, George. 3,020,411.
Chiang, Franklin C. 3,017,096.
Chiang, Franklin C. 3,070,305.
Chou, Wayne W. 3,064,141.
Cistola, Anthony B. 3,041,491.
Clapper, Genung L. 3,025,415.
Clapper, Genung L. 3,037,700.
Clapper, Genung L. 3,038,091.
Clapper, Genung L. 3,038,129.
Clapper, Genung L. 3,042,811.
Clapper, Genung L. 3,046,413.
Clapper, Genung L. 3,046,484.
Clapper, Genung L. 3,058,008.
Clark, John B. 3,057,967.
Clarke, Henry R. 3,062,531.
Cleveland, Norman G. 3,059,266.
Cole, James N. 3,037,125.
Cole, Theodore H., and MacDonald. 3,057,528.
Coleman, Millard J. 3,047,854.
Connell, Richard A., and Seraphim. 3,050,643.
Cooper, Arthur E., and Olson. 3,054,998.
Coopper, Roderick A. 3,031,140.
Coopper, Roderick A., and Moyer. 3,069,085.
Cour, Gene J. 3,017,627.
Cowan, Tyson G. 3,018,152.
Cox, Theodore C. 3,044,702.
Cronquist, Donald H. 3,055,522.
Cronquist, Donald H. 3,065,627.
Crosby, James S., Jr. 3,037,191.
Crosby, James S., Jr., and Stern-Montagny. 3,040,299.
Cunningham, James M., and Kovach. 3,057,422.
Cunningham, James M., and Pratt. 3,062,535.
Cunningham, James M., Pratt, and Watkins. 3,052,408.
Cutaia, Alfred, and Harrington. 3,052,468.
Damm, Eugene P., Jr. 3,049,077.
Darwin, Daniel P., and Kellogg. 3,066,859.
David, Bruce F. 3,052,465.
David, Bruce F., and Dimmenna. 3,025,051.
Davis, Edward W. 3,051,840.
Davis, Roderic A. 3,055,586.
Davis, Roderic A., and Olson. 3,063,038.
Day, Kelly B., Jr. 3,069,568.
Dayger, Jonas E., Salani, Hailey, Laurer, and Babel. 3,029,019.
De George, Peter J. 3,028,079.
De George, Peter J., and Kennard. 3,028,078.
De Maine, Frank J. 3,067,358.
Demer, Frederick M. 3,055,583.
Demmer, William R. 3,059,222.
Demmer, William R., Fogle, and Hartman. 3,058,659.
Dersch, William C. 3,017,586.
Dickerson, Jack A. 3,023,404.
Dickinson, Arthur H. 3,015,442.
Dickinson, Arthur H. 3,023,399.
Dickinson, Arthur H. 3,037,695.
Dickinson, Wesley E. 3,022,005.
Dill, Frederick H. 3,070,708.
Di Marco, Henry A. 3,031,407.
Dodge, Ronald D., and Perkins. 3,050,170.
Doody, Gerald E. 3,069,667.
Dreyfoos, Alex W., Jr., Mazza, Radke, and Staley. 3,055,-006.
Droege, Frederick J., Klotz, and Marcus. 3,024,980.
Dunham, Bradford. 3,028,088.
Dunne, Thomas G. 3,023,167.
Eden, Harold E. 3,066,601.
Edminster, Robert E., Fritz, Furr, Valehrach, and Weidenhammer. 3,039,682.
Eichbaum, Barlane R. 3,028,336.
Eichelberger, Edward B. 3,067,335.
Eichorn, Robert N. 3,015,197.
Eichorn, Robert N., and Dexter. 3,041,804.
Eggenberger, John S. 3,070,782.
Eggenberger, John S., Lloyd, and Smith. 3,019,125.
Eggenberger, John S., Lloyd, and Smith. 3,047,423.
Einsele, Theodor E. 3,059,226.
Emig, Marsden B. 3,064,190.
Erickson, John J., and Nallin. 3,060,322.
Eschenfelder, Andrew H. 3,031,341.
Estrems, Eugeni, and Papo. 3,042,903.
Evans, Oliver D., and Hartman. 3,027,081.
Farr, Leo E., Jr., and Hammer. 3,062,438.
Fernekees, James E., and Harper. 3,028,583.
Fertig, Frank L. 3,052,467.
Fiehl, Michael. 3,015,487.
Fiehl, Michael. 3,066,933.
Fischle, Liselotte, Kulcke, Schweitzer, and Trapp. 3,067,413.
Fitch, Clyde J. 3,034,112.
Fitch, Clyde J. 3,057,529.
Flavin, Theodore F., and Wicklund. 3,037,689.
Fleisher, Harold. 3,021,437.
Foglia, Henry R. 3,028,558.
Foin, Warren C., Gregory, Hartman, and Trachy. 3,026,-037.
Folmar, Arthur J. 3,043,589.

International Business Machines Corp.: *See*—Continued
Forsyth, Bruce E., and Prater. 3,055,681.
Foss, Frederic A. 3,018,964.
Foss, Frederic A. 3,038,657.
Foss, Frederic, and Haug. 3,063,366.
French, Walter K. 3,054,203.
Fryklund, Donald H. 3,020,937.
Fryklund, Robert A. 3,033,102.
Furman, Frank J., and Wagner. 3,015,453.
Furr, Robert J., and Valehrach. 3,048,393.
Fury, Arthur M., and Smith. 3,059,611.
Galatha, Matthew J. 3,062,532.
Garrity, Thomas R. 3,030,014.
Gewickey, Frank I., Golden, and Muenzer. 3,048,327.
Giannuzzi, George A. 3,049,991.
Gifford, William E., and McMahon. 3,045,436.
Gindi, Abe M. 3,054,967.
Glättli, Hans H. 3,070,295.
Gmeiner, Paul. 3,015,265.
Grant, Paul M. 3,037,199.
Grant, Paul M., and Penney. 3,016,507.
Gray, Alvin E. 3,033,365.
Gray, Alvin E., and Wilson. 3,024,904.
Greenhalgh, Roger C., and Norton. 3,049,291.
Grenchus, Edward J. 3,038,147.
Goddard, William A. 3,020,805.
Gunther-Mohr, Gerard R. 3,020,132.
Gutteling, Jan. 3,025,052.
Haanstra, John W. 3,017,098.
Haanstra, John W., Huag, Lesser, Stevens, and Woodbury. 3,026,036.
Hagopian, Jacob J. 3,037,205.
Hagopian, Jacob J. 3,058,100.
Hahs, Walter R. 3,028,552.
Haines, Robert S., and Leland. 3,049,442.
Hakimoglu, Ayhan. 3,025,451.
Hakimoglu, Ayhan. 3,034,072.
Hall, Eddie T., Newton, and Wood. 3,042,304.
Hamburgen, Arthur. 3,016,195.
Hammer, James P., and Slater. 3,021,059.
Haney, Donald W. 3,052,407.
Harford, Henry D. 3,015,735.
Harper, Leonard R. 3,051,853.
Harris, Wayne W. 3,018,951.
Harrison, Donald A., and Selfridge. 3,036,770.
Hastings, Kenneth E. 3,062,935.
Havens, Byron L. 3,018,957.
Havens, Byron L., and Smith. 3,063,013.
Haynes, Munro K. 3,054,093.
Haynes, Munro K., Russell, and Wild. 3,019,419.
Hazel, Herbert R. 3,034,382.
Heidt, William A., and Roller. 3,022,879.
Heineck, Arthur W. 3,056,108.
Heineck, Arthur W., Jr., and Wood 3,064,895.
Henle, Robert A. 3,031,584.
Henry, William F., and Marcel. 3,037,696.
Hibbard, Oscar L., and Stoddard. 3,025,368.
Hickerson, John E. 3,044,690.
Hickerson, John E. 3,050,241.
Hinkein, Donald J., and Martin. 3,067,937.
Hoagland, Albert S., and Reader. 3,034,111.
Hoffman, George R., and Maclean. 3,025,500.
Hoffmann, Walter. 3,058,415.
Hopner, Emil and Andrews. 3,069,506.
Horton, Rodney L. 3,040,185.
Horton, Rodney L. 3,048,715.
Housman, Bennett. 3,017,100.
Hunt, Warren A. 3,049,692.
Hunt, Warren A. 3,067,422.
Hunter, Lloyd P. 3,065,459.
Johnson, Donald D., Flores, and Vogel. 3,058,844.
Johnson, Ellsworth L. 3,045,212.
Johnson, Oliver D., and Holovka. 3,015,168.
Johnson, Reynold B., and Hagopian. 3,018,332.
Johnston, Mason W., and Markle. 3,050,081.
Jones, William R. 3,065,435.
Jurgens, Henry A., Rex, and O'Connor. 3,034,644.
Kahan, George J. 3,058,851.
Kahan, George P., and De Cormier. 3,058,842.
Kahn, Allan A., and Wolff. 3,023,320.
Kelly, Martin J. 3,062,440.
Kelly, Martin J. 3,067,414.
Kikoshima, Ray T. 3,045,915.
Kistner, Harold J., and Pajerek. 3,015,484.
Knickmeyer, Kenton H. 3,033,454.
Knight, John R. 3,028,081.
Knight, John R. 3,036,300.
Knox, Lewis A. 3,046,541.
Koelsch, Albert C., Jr., and Young. 3,027,806.
Kollmeier, Xavier. 3,037,265.
Koranye, Theodore D. 3,029,423.
Kornei, Otto. 3,065,311.
Kristiansen, Frank T., and Pexton. 3,064,333.
Kuba, Richard E. 3,041,523.
Kuehler, Jack D. 3,023,343.
Kulesza, Frank W. 3,052,564.
Kump, Herbert J. 3,052,885.
Kuntzleman, Harry C., and Simek. 3,015,732.
Laczko, Laszlo. 3,045,183.
Laframboise, Guy R. 3,015,424.

International Business Machines Corp.: *See*—Continued
Lamoreaux, William G. 3,068,380.
Landauer, Rolf W. 3,016,492.
Landauer, Rolf W. 3,065,402.
Laurer, George J., and Washington. 3,038,145.
Leary, Thomas G. 3,032,265.
Leathers, Ward, Di Monico, and Bruehl. 3,015,254.
Leaycraft, Edgar C. 3,054,752.
Lecher, Charles T., Jr. 3,056,112.
Lee, Imsong, and Waxman. 3,065,358.
Lego, John H. 3,037,687.
Leightner, Robert A. 3,070,713.
Lentz, John J. 3,059,196.
Lisinski, Joseph E. 3,059,753.
Litz, Frank A. 3,053,450.
Litz, Frank A., and Vogel. 3,046,540.
Lockhart, Newton F. 3,037,197.
Lockhart, Newton F. 3,059,122.
Logue, Joseph C. 3,070,779.
Logue, Joseph C., and Henle. 3,037,127.
Logue, Joseph C., and Walsh. 3,028,506.
Lounsberry, Ernest D., and Wendling. 3,015,263.
Luhn, Hans P., and Reichel. 3,031,075.
Lynott, John J. 3,016,612.
Lynott, John J. 3,031,532.
Lyons, Vincent J. 3,065,113.
Lyons, Vincent J. 3,070,466.
Machol, Guenther K. 3,047,853.
Mackay, James B. 3,019,953.
Mackay, James B. 3,023,324.
Mackay, James B. 3,053,451.
Mackay, James B. 3,065,359.
Maclay, William R. 3,034,109.
Maley, Gerald A. 3,040,188.
Marcus, Mitchell P. 3,034,104.
Marcy, Henry T. 3,033,460.
Marinace, John C. 3,031,404.
Marinace, John C. 3,047,438.
Marinace, John C. 3,065,116.
Masterson, Frank H. 3,064,341.
Mathers, Harry W. 3,016,485.
McDermid, William L., Petersen, and Shelton. 3,036,775.
McMillan, William L. 3,065,357.
McNutt, Robert D. 3,036,962.
Mestre, Auguste F. 3,021,484.
Miller, Solomon L. 3,036,226.
Montross, Eugene V. 3,054,932.
Morphet, John C., Jr. 3,029,389.
Mouchon, Raoul. 3,033,052.
Muffley, Robert V. 3,025,710.
Mulock, Lawrence E., and Albert. 3,041,947.
Mutter, Walter E. 3,067,071.
Neville, Richard G. 3,048,666.
Noonan, James R. 3,026,483.
Noonan, James R. 3,054,990.
Northrop, Arthur W., and Yevchak. 3,045,336.
O'Connell, James A., and Narken. 3,039,005.
Orrange, Robert J. 3,025,511.
Osterlund, Alfred G. 3,051,954.
Owen, Charles E. 3,017,101.
Page, Ralph E., and Buley. 3,042,999.
Palmer, Harry R., and Prater. 3,020,836.
Palmer, Leon E. 3,059,751.
Panissidi, Hugo A. 3,029,013.
Panissidi, Hugo A. 3,058,310.
Papo, Maurice. 3,069,086.
Papo, Maurice, and Kouzmine. 3,024,989.
Parry, Walter E. 3,042,809.
Perry, Gerald H., Shallow, and Hoffman. 3,059,225.
Philip, George O. 3,021,464.
Phillips, Robert K., and Clarke. 3,030,610.
Pittwood, Donald G. 3,029,770.
Pittwood, Donald G. 3,064,502.
Poch, Leonard J., and Schaffer. 3,034,110.
Pomerene, James H. 3,045,209.
Pomerene, James H. 3,058,656.
Pomerene, James H., and Cocke. 3,051,387.
Pomerene, James H., and Slobodzinski. 3,019,351.
Post, Frederick L. 3,059,224.
Pouget, Claude. 3,068,554.
Prater, Merle P. 3,037,863.
Prentky, Peter I. 3,041,546.
Quade, Edward A. 3,017,617.
Quade, Edward A. 3,029,416.
Quade, Edward A., and Steele. 3,063,041.
Rabenda, Edward J. 3,043,504.
Rabenda, Edward J., and Every. 3,040,300.
Reitfort, Henry A. 3,015,377.
Rent, Edward F., and Powell. 3,015,441.
Rent, Edward F., and Powell. 3,017,092.
Reynolds, Andrew C., Jr. 3,021,065.
Reynolds, Andrew C., Jr. 3,024,992.
Reynolds, Andrew C., Jr. 3,030,020.
Rhodes, William H., Brenza, Winger, and Jackson. 3,049,295.
Rosenberger, Gerald B., and Johnson. 3,022,468.
Rowe, Thomas H., Hammer, and Kennedy. 3,046,528.
Rowley, Russell A., Adams, and Gaffney. 3,021,069.
Rowley, Russell A., Adams, and Gaffney. 3,046,527.
Ruocchio, Albert C., and Schroeder. 3,068,362.

International Business Machines Corp.: *See*—Continued
Rutz, Richard F. 3,047,733.
Rutz, Richard F. 3,054,070.
Rymaszewski, Eugene J. 3,054,948.
Saltz, Fred, and Grenchus. 3,018,722.
Saltz, Fred, and Hammer. 3,055,581.
Sanborn, Jere L. 3,019,349.
Sanford, Robert S. 3,035,247.
Sankuer, Raymond F., and Riseman. 3,055,770.
Saxenmeyer, George J. 3,037,698.
Saxenmeyer, George J. 3,046,539.
Saxenmeyer, George J. 3,052,406.
Schaaf, Fred W. 3,067,407.
Schaefer, John O. 3,065,008.
Schaffert, Roland M. 3,052,213.
Schreiner, Kenneth E. 3,031,621.
Schroeder, Eugene N. 3,038,776.
Schwartz, Robert S. 3,034,478.
Schwartz, Robert S., and Genser. 3,025,763.
Seabury, William A., III, and McNutt. 3,059,320.
Seager, Donald W., and Perry. 3,061,886.
Seibel, Robert, and Rochester. 3,022,878.
Shelton, Glenmore L., Jr. 3,064,519.
Shevel, Wilbert L., Jr. 3,054,044.
Sierra, Huberto M. 3,028,086.
Sierra, Huberto M. 3,033,455.
Sierra, Huberto M. 3,037,701.
Sierra, Huberto M. 3,045,914.
Sierra, Huberto M. 3,063,636.
Simpson, Victor R., and Thompson. 3,041,964.
Skerritt, John W. 3,037,132.
Skerritt, John W. 3,047,732.
Skerritt, John W. 3,047,728.
Skovmand, Harry A., and K. R. 3,069,659.
Slobodzinski, Edwin J. 3,037,128.
Slobodzinski, Edwin J. 3,040,192.
Slobodzinski, Edwin J. 3,070,709.
Slobodzinski, Edwin J., and Neff. 3,066,231.
Smith, Arthur F. 3,015,485.
Smith, Arthur F. 3,037,688.
Smith, James T. 3,054,961.
Sommerfield, Edward H. 3,050,636.
Southard, Carl D. 3,029,412.
Southard, Carl D. 3,037,406.
Speiser, Ambros P., and Steinmann. 3,065,366.
Spencer, Gwynne W., II. 3,054,909.
Stange, Klaus K., and Durand. 3,064,969.
Stoddard, David L. 3,057,210.
Strachey, Christopher. 3,033,457.
Strachey, Christopher, and Gillies. 3,017,090.
Strachey, Christopher, and Gillies. 3,017,094.
Streeter, Donald N. 3,027,059.
Stuckert, Paul E. 3,054,094.
Summers, Willard P. 3,058,661.
Svigals, Jerome, and Liggett. 3,064,239.
Sweeney, John L. 3,069,678.
Tackett, Thomas B. 3,027,988.
Tailleur, Andre M. 3,037,690.
Tait, John B., and Kaye. 3,038,148.
Tate, Lawrence A. 3,050,639.
Taunt, James E. 3,057,956.
Taylor, Charles M. 3,045,306.
Taylor, Jordan M. 3,019,976.
Taylor, Jordan M. 3,034,720.
Theodoseau, Nicholas, Kahan, Da Silva, and de Cormier. 3,023,727.
Thomas, Walker H. 3,018,959.
Thompson, Leon J. 3,054,939.
Thompson, Leonard H. 3,064,243.
Thompson, Leonard H., and Wenner. 3,049,698.
Thorpe, Allan C. 3,028,581.
Tibbetts, Raymond E. 3,054,490.
Tooppen Thurston H. 3,040,859.
Tomek, Reinhold E. 3,060,360.
Trampel, Kurt M. 3,060,330.
Tsu, Ignatius. 3,031,400.
Tuttle, Robert A. 3,035,255.
Uberbacher, Edward C., and Evans. 3,052,863.
Underwood, Francis O. 3,034,103.
Valentine, Edward H. 3,069,815.
Vignos, Joseph P., and Shoultes. 3,015,733.
Vinal, Albert W. 3,021,511.
Vinal, Albert W. 3,048,790.
Vinal, Albert W. 3,060,325.
Wagner, Eric G. 3,056,552.
Walker, Robert M., Anderson, and Rosenheim. 3,018,958.
Walker, Robert M., and Schlig. 3,020,489.
Walsh, Francis W. 3,056,321.
Walsh, James L. 3,050,641.
Walsh, James L., and Marino. 3,026,487.
Walton, Charles A. 3,028,087.
Ward, Robert L. 3,018,961.
Weidenhammer, James A. 3,015,486.
Weidenhammer, James A. 3,057,569.
Weidenhammer, James A., and Buslik. 3,057,568.
Weidenhammer, James A., Wroblewski, Watkins, Culveyhouse, and Serenate. 3,034,782.
Weidner, Ralph J. 3,039,030.
Weidner, Ralph J. 3,040,264.
Weiss, Cornelius F., Jr., and Benson. 3,070,780.
West, Gerald N. 3,040,307.
West, Gerald N. 3,042,178.
International Business Machines Corp.: *See*—Continued
Wicklund, Harold P. 3,015,425.
Widmer, Albert X. 3,050,673.
Wiedmer, Friedrich S., and Liou. 3,055,587.
Willard, Dennis D. 3,036,304.
Willard, Dennis D. 3,042,823.
Willard, Dennis D. 3,050,692.
Winogradoff, Nicholas N. 3,060,317.
Wolff, Hermann P. 3,069,629.
Woodland, Norman J. 3,052,405.
Young, Carl E., and Bespalko. 3,038,036.
Young, Paul M. 3,016,418.
Yourke, Hannon S. 3,067,389.
Yourke, Hannon S., and Strohm. 3,018,390.
Zurowski, Rudolph L. 3,057,293.
International Cigar Machinery Co.: *See*—
Clausen, Sigurd, Neuman, and Hanson. 3,033,210.
Godfrey, Thomas A. 3,033,211.
Godfrey, Thomas A. 3,036,579.
Godfrey, Thomas A. 3,048,281.
International Computers and Tabulators Ltd.: *See*—
Bird, Raymond, and Cartwright. 3,063,042.
Bradley, Edward M. 3,048,829.
Chaimowicz, Adam. 3,026,499.
Collins, Bernard P., and Shepherd. 3,032,884.
Davy, John C., and Pavlic. 3,064,881.
Hewitt, Maurice C. P., and Lambert. 3,031,138.
Hillen, Hubert J., and Stuart. 3,020,044.
James, John B. 3,040,303.
Pavlic, Ivo. 3,051,477.
Sharp, John J. 3,048,831.
Smith, Kenneth L. 3,030,019.
Townsend, Ralph. 3,049,279.
Womersley, John R., and Townsend. 3,062,446.
Yandell, Ronald P. B. 3,039,690.
International Crystal Mfg. Co.: *See*—
Freeland, Royden R. 3,065,417.
International Electronic Research Corp.: *See*—
McAdam, John C. Re. 25,154.
McAdam, John C. 3,020,451.
Spurling, John E. 3,026,727.
International Fiber Development Corp.: *See*—
Haas, Josef. 3,025,573.
International Flavors & Fragrances Inc.: *See*—
Eminga, Robert, and Beets. 3,045,028.
Somerville, Willard T. 3,030,384.
International Groom Co., G.m.b.H.: *See*—
Groom, Reginald W., and Hartog. 3,025,190.
International Cigar Machinery Co.: *See*—
Gustavson, Sterling T., and Hanson. 3,016,779.
Rosenberg, Sheldon, and Schmidt. 3,016,907.
International Computers and Tabulators Ltd.: *See*—
Chaimowicz, Adam. 3,016,520.
Sharp, John J. 3,016,523.
International Harvester Co.: *See*—
Allen, George S., Sr. 3,016,624.
Barfield, Charles G. 3,066,467.
Barrett, Robert D. 3,032,352.
Bechman, William O. 3,022,836.
Bellingher, Fred A., and Shifrer. 3,039,810.
Bertenshaw, Allen H., and Basta. 3,049,257.
Biehl, Harold R., and Smith. 3,060,560.
Birkenbach, Eugene J., Brown, Vendl, and Pfeiffer. 3,049,183.
Bornzin, James H. 3,043,073.
Brehm, Richard J., and Johnson. 3,065,743.
Christie, Reginald A., and Rowbotham. 3,043,074.
Cobb, David A. 3,059,665.
Coons, Robert R., and Richardson. 3,049,330.
Donner, Verne P. 3,023,014.
Donner, Verne P. 3,039,212.
Eby, John H., Jr. 3,042,774.
Everett, Charles V., and Sammarco. 3,061,334.
Faust, Ellwood L., and Harter. 3,065,800.
Fischer, Raymond C. 3,046,720.
Fischer, Raymond C. 3,066,465.
Giesmann, Herbert A., and Hanssmann. 3,032,158.
Hanson, Clark L. 3,031,983.
Harden, Eldon A., and Pierson. 3,039,541.
Harman, Floyd B. 3,065,703.
Henningsen, Etlar A., and Johnston. 3,023,039.
James, Howell N., and Karlsson. 3,066,000.
Jennings, Marvin D. 3,022,835.
Jennings, Marvin D. 3,043,251.
Jennings, Marvin D., and Amato. 3,059,437.
Jennings, Marvin D., and Shader. 3,065,879.
Jennings, Marvin D., and Timberlake. 3,031,831.
Johnston, Edward J. 3,066,470.
Johnston, Grant M. 3,039,828.
Karlsson, Elof K. 3,035,390.
Kielar, Andrew A. 3,024,528.
Kirchler, Lewis. 3,049,365
Kolthoff, C. Paul, Jr. 3,039,737.
Kolthoff, C. Paul, Jr. 3,043,568.
Kowalik, John J., Syrutowicz, and Johnson. 3,066,468.
Kowalik, John J., and Walker. 3,046,721.
Lee, Robert S. 3,032,426.
Lindblom, Carl A. 3,059,958.
Malcolm, Robert H., and Brehm. 3,032,022.
Marindin, Robert. 3,022,832.
Marindin, Robert. 3,024,859.
McAfee, Robert E., Eddy, and Moser. 3,065,822.

International Harvester Co. : *See*—Continued
McAfee, Robert E., and Goldsmith. 3,043,413.
McGrew, Charles B., Jr. 3,032,644.
Molzahn, Herbert W. 3,065,734.
Morkoski, James. 3,024,850.
Morkoski, James. 3,065,804.
Morkoski, James, and Birkenbach. 3,040,819.
Morkoski, James, and Harden. 3,059,706.
Moyer, Donald W., and Fiala. 3,059,717.
Pierson, Frederick M. 3,065,803.
Rezabek, Vernon E. 3,039,211.
Robbins, William W. 3,043,167.
Sadler, James E., and Haley. 3,035,389.
Sexauer, Russell E. 3,059,622.
Shader, Benjamin A. 3,061,021.
Shader, Benjamin A., and Jennings. 3,049,180.
Shallenberg, Robert L. 3,061,030.
Simon, John P. 3,022,683.
Simpson, Vinson R., and Orendorff. 3,047,077.
Spero, Arthur F. 3,021,483.
Thassy, Michael G. 3,066,003.
Virtue, Eugene P., Moyer, and Richardson. 3,065,977.
Voreaux, Claude, and Joyeux. 3,039,267.
Wier, Thomas G., and Di Vita. 3,047,076.
Witt, Robert H. 3,031,836.
Witt, Robert H. 3,039,256.
Witt, Robert H., and Barows. 3,043,078.
Ziskal, Joseph F. 3,063,707.
Zitko, Ronald F. 3,065,605.

International Heater Co. : *See*—
Trask, Allen. 3,041,845.

International Instruments, Inc. : *See*—
Mulligan, Robert J. 3,032,692.

International Latex Corp. : *See*—
Barth, Harry J. 3,043,311.
Dorsey, William J. 3,043,312
Miller, Verle A., Brown, and Glenger. 3,067,180.
Miller, Wilbur A., and Glenger. 3,017,889.
Sachs, Charles M. 3,064,654.
Shepard, Leonard F. 3,030,626.
Shepard, Leonard F. 3,042,926.

International Laundry Machinery Co. : *See*—
Zimarik, John. 3,052,113.

International Lock Corp. : *See*—
Crepinsek, Alois. 3,066,523.

International Macgregor Organization : *See*—
Grundseth, Odd. 3,048,183.

International Marine and Oil Development Corp., AB : *See*—
Norlin, Lars O. K. 3,067,716.

International Meat Processors, Inc. : *See*—
Robertson, Harry J., Frank, Alterman, and Oxman. 3,028,243.

International Milling Co. : *See*—
Verschoyl, L. R. 3,018,950.

International Minerals & Chemical Corp. : *See*—
Adam, Howard W. 3,016,139.
Adam, Howard W., and Fenske. 3,032,189.
Adams, Albert, and Tschappler. 3,063,562.
Barlow, Thomas E. 3,023,113.
Baumann, Arthur N. 3,032,408.
Baumann, Arthur N. 3,035,898.
Becker, Richard D. 3,023,114.
Bostwick, Louis E. 3,053,622.
Cook, Charles C. 3,025,960.
Dancy, William B. 3,063,800.
Fenske, Douglas H. 3,032,195.
Fenske, Douglas H., and Haseman. 3,067,875.
Fike, Harold L. 3,023,236
Garrison, Clair W. 3,032,005.
Gilchrist, James G., Jr. 3,063,805.
Graes, Howard B., Jr., and Bell. 3,023,089.
Haseman, Joseph F. 3,022,956.
Hoglan, Forest A. 3,026,204.
Huffman, Clarence W. 3,064,010.
Huffman, Clarence W. 3,068,298.
Johanningmeier, Charles E. 3,025,945.
Kodras, Rudolph. 3,039,883.
Le Baron, Ira M. 3,032,190.
Le Baron, Ira M. 3,032,772.
Le Baron, Ira M., and Fenske. 3,016,138.
Le Baron, Ira M., and Samsel. 3,022,889.
Matoush, William R. 3,056,650.
Nelson, Alvin I. 3,035,508.
Nelson, Alvin I., McGill, and Steinberg. 3,063,849.
Norman, Oscar L. 3,016,395.
Northcott, Elliott. 3,032,197.
Reuss, John L., and Bell. 3,025,707.
Sietsema, Jacob W. 3,059,694.
Sietsema, Jacob W. 3,060,171.
Sietsema, Jacob W., and Mandell. 3,060,170.
Snow, Robert E. 3,022,890.
Snow, Robert E. 3,052,349.
Snow, Robert E. 3,063,561.
Sollin, Ingmar. 3,032,196.
Trachta, Joseph E., and Rodriquez. 3,016,143.
Tynan, Donald E. 3,058,804.

International Nickel Co., Inc., The : *See* –
Bieber, Clarence G. 3,048,485.
Bieber, Clarence G. 3,061,426.
Cox, Gordon J. 3,033,676.
Eiselstein, Herbert L. 3,046,108.
Gittus, John H., and Cook. 3,065,072.

International Nickel Co., Inc., The : *See*—Continued
Graham, Alexander B. 3,034,642.
Haynes, Frank G. 3,069,258.
Horne, Campbell C., and Stuart. 3,061,481.
Illis, Alexander. 3,058,824.
Kihlgren, Theodore E., and Petryck. 3,029,165.
Kinelski, Eugene H. 3,067,508.
Milis, Keith D. 3,030,205.
Norman, George H. C. 3,042,498.
Patton, Alexander M. 3,045,302.
Queneau, Paul E., and Kalling. 3,030,201.
Queneau, Paul E., and Renzoni. 3,069,254.
Raper, Alan R., Clements, and Fothergill. 3,024,084.
Schelleng, Robert D., and Abbott. 3,055,755.
Turner, Philip G. 3,026,605.
Turner, Philip G. 3,028,661.
Turner, Philip G., and Horne. 3,045,328.
Witherell, Charles E. 3,024,137.
Yeo, Ralph B. G. 3,027,253.

International Nickel Co., The : *See*—
Worn, David K., and Bradbury. 3,034,173.

International Packings Corp. : *See*—
Workman, Woodrow L. 3,052,476.

International Paints (Canada) Ltd. : *See*—
Hartley, Robert A., Pester, and Hayes. 3,069,279.

International Paper Box Machine Co., The : *See*—
La Bombard, Leon E. 9,039,372.

International Paper Co. : *See*—
Adams, Forrest R. 3,040,559.
Babel, Edwin F., Jr. 3,048,322.
Bruning, William E. 3,025,804.
Bruning, William E. 3,052,292.
Busch, Thomas N. 3,017,720.
Ford, Barton H. 3,025,907.
Ford, Barton H. 3,032,453.
Ford, Barton H. 3,063,498.
Ford, Barton H. and M. J. 3,028,981.
Ford, Michael J. 3,021,597.
Ford, Michael J. 3,025,805.
Ford, Michael J. and B. H. 3,025,908.
Ford, Michael J. and B. H. 3,042,112.
Hollis, Clinton R. 3,045,359.
La Bombard, Leon E. 3,053,155.
Linda, Frank R. 3,068,744.
Linda, Frank R., Klein, and Bickley. 3,056,665.
McDuffie, Orville W. 3,023,947.
Rolfe, Charles A. 3,022,818.
Schubert, Kenneth M. 3,021,044.

International Patent Cooperation : *See*—
Moriya, Saburo M. 3,059,310.
Moriya, Saburo M., and Asakawa. Re. 25,201.

International Patent Corporation : *See*—
Moriya, Saburo M. 3,060,339.

International Patent Research Corp. : *See*—
Chow, Ho, and Blasnik. 3,042,318
Rinkewich, Isaac, and Chow. 3,017,123.

International Postal Supply Corp. : *See*—
Adams, Richard C. 3,070,368.
Lundquist, Ingemar H., and Schaerer. 3,062,133.
Persson, Ernest, and Olby. 3,036,518.
Welch, Garrett A., III. 3,042,185.

International Rectifier Corp. : *See*—
Ben-Sira, Moshe Y., and Pratt. 3,053,926.
Brown, Lake D., Jr. 3,047,437.
Diebold, Edward J. 3,056,037.
Solow, Benjamin, and Lohrer. 3,070,647.

International Register Co. : *See*—
Bassett, Ronald M. 3,036,228.
Bickford, Harry G. 3,060 063.
Brady, Joseph M., and Wright. 3,060 349.
Gallagher, William P., Minard, Stolle, and Gardes. 3,060,288.
Gardes, Alfred W. 3,060,289.
Stolle, Anthony D., and Dykinga. 3,038 040.

International Research and Development Corp. : *See*—
Crawford, Arthur R. 3,023,613.
Crawford, Arthur R., Rushin, Porter, and Ryan. 3,030,813.
Ongaro, Theodore. 3,054,275.
Sedlacik, John, Jr. 3,051,594.

International Resistance Co. : *See*—
Burns, Jerome G. 3,043,721.
Chass, Jacob. 3,017,589.
Chass, Jacob. 3,017,590.
Chass, Jacob. 3,031,633.
Douglass, Walter H., and Solow. 3,064,070.
Janakirama-Rao, Bhogaraju. 3,031,318.
Lannan, Patrick, E., Prusha, and Price. 3,049,598.
Pegram, William B. 3,044,029.
Pegram, William B. 3,048,040.
Rocchi, Ferdinand A., and Surowiec. 3,048,268.
Solow, Benjamin. 3,025,485.

International Salt Co. : *See*—
Kaufmann, Dale W. 3,036,884.

International Salt Co., Inc. : *See*—
Jacoby, Charles H. 3,064,957.
MacKinnon, Charles E. 3,036,896.

International Shoe Co. : *See*—
Heideman, Leslie R. 3,045,282.
Topper, John M., and Silver. 3,040,454.

International Silver Co., The : *See*—
Conroy, Edward J. 3,050,182.

International Standard Electric Corp.: *See*—
Andre, Louis J. F., and Van Den Bossche. 3,035,726.
Ash, Bernard E. 3,059,869.
Ash, Eric A., and Pattenden. 3,020,498.
Barber Donald R. 3,053,993.
Benmussa, Henri, and Le Corre. 3,053,935.
Benmussa, Henri, Le Corre, and Weill. 3,056,038.
Bernutz, Johannes, and Gunst. 3,059,059.
Braaten, Amud, Wilhelmsen, and Johnsen. 3,065,731.
Bray, Frederick H., and Bryan. 3,039,683.
Brewster, Arthur E. 3,040,304.
Brewster, Arthur E. 3,045,216.
Brewster, Arthur E. 3,069,641.
Buchwald, Fritz, and Fliegner. 3,035,695.
Buchwald, Fritz, Fliegner, Kastenbein, and Sindzinski. 3,069,011.
Bush, Eric L. 3,029,135.
Castelijns, Henri F. 3,065,892.
Cattermole, Kenneth W. 3,020,349.
Cattermole, Kenneth W. 3,059,060.
Clement, Wolfgang. 3,020,409.
Dal Bianco, Bruno, and Scata. 3,035,136.
Dal Bianco, Bruno, and Scata. 3,056,869.
Dal Bianco, Bruno, and Scata. 3,059,074.
Donceel, Jules L. J., and Mus. 3,030,468.
Endres, Hermann. 3,025,495.
Fichtmuller, Friedrich. 3,059,770.
Fliegner, Horst, and Kastenbein. 3,039,592.
Frankton, William J., Roseway, Atkinson, and Archibald. 3,059,068.
Fulop, Walter. 3,040,219.
Giesecke, Günter. 3,063,627.
Girinsky, Anatole, and Bacot. 3,051,786.
Gohorel, Fernand P. 3,049,594.
Gohorel, Fernand P. 3,059,055.
Hill, Ronald A. 3,029,370.
Hirschfeld, Gerhard, Hinz, and Fritzsche. 3,029,944.
Hirschfeld, Gerhard, Hinz, and Fritzsche. 3,035,694.
Hirschfeld, Gerhard, Hinz, and Fritzsche. 3,069,653.
Hjertstrand, Svante L. 3,055,986.
Holstein, Otto M. A., and Gross. 3,048,656.
Jackson, Thomas M., and Sell. 3,035,201.
Karbowiak, Antoni E. 3,066,268.
Kleinschmidt, Johann S. 3,036,221.
Klepp, George F. 3,029,364.
Lee, Edwin C. 3,051,771.
Lennox, Peter W. 3,051,931.
Lens, Georges X., and De Peuter. 3,068,988.
Lutz, Helmut. 3,045,113.
MacPhee, Malcolm, and Bolger. 3,051,557.
Merritt, Trevor. 3,044,244.
Merz, Gerhard, and Ulmer. 3,066,281.
Murden, Peter. 3,036,232.
Owen, Douglas H. 3,066,103.
Peeters, Jozef A. 3,053,130.
Pohl, Walter J. 3,045,138.
Pouliart, Willy H. P., and Van Mechelen. 3,028,958.
Pouliart, Willy H. P., and Van Mechelen. 3,028,961.
Richert, Eberhard, and Fliegner. 3,051,332.
Richert, Eberhard, and Fliegner. 3,051,333.
Ridler, Desmond S., and Odell. 3,020,526.
Sandbank, Carl P. 3,066,236.
Schockaert, Jules J. E. M. 3,015,379.
Steinbuch, Karl. 3,066,224.
Steinbuch, Karl, Braun, and Merz. 3,053,936.
Steinbuch, Karl W., and Endres. 3,069,079.
Steiner, Fritz. 3,025,522.
Steiner, Fritz. 3,048,843.
Steiner, Fritz, and Kramar. 3,054,105.
Sterling, Henley F. 3,069,244.
Sterling, Henley F., and Raymond. 3,044,967.
Sterling, Henley F., and Raymond. 3,069,241.
Thyen, Rainer. 3,015,805.
Touraton, Emile, and Le Corre. 3,049,593.
Trost, Ernst-Gunther. 3,051,780.
Ulrich, Friedrich. 3,056,043.
Van Mechelen, Guillaume. 3,045,186.
Verhoeven, Herman K. M. 3,050,917.
Wagner, Manfred, and Kolb. 3,054,029.
Weber, Joachim F. L., and Heck. 3,015,538.
Wilson, Jack M. 3,053,631
Wright, Esmond P. G. 3,020,336.
Wright, Esmond P. G., Odell, and Parker. 3,015,755.
Wright, Esmond P. G., and Reynolds. 3,024,448.
Wright, Esmond P. G., and Rice. 3,024,993.
Wright, Esmond P. G., and Rice. 3,025,351.
Wright, Esmond P. G., and Rice. 3,039,689
Wright, Esmond P. G., Ridler, and Grimmond. 3,048,827.
Wright, Esmond P. G., Ridler, and Odell. 3,069,660.
Wright, Esmond P. G., Weir, Hinton, and Dzula. 3,025,341.
Young, Joseph. 3,019,896.
Zschekel, Hans. 3,045,213.

International Steel Co.: *See*—
Simpson, Arthur M. 3,020,038.

International Telephone and Telegraph Corp.: *See*—
Adams, Paul R., and de Faymoreau. 3,048,044.
Adams, Robert T. 3,054,973.
Adams, Robert T. 3,069,631.
Adams, Robert T., and Harvey. 3,066,297.
Adams, Robert T., and Mindes. 3,069,630.

International Telephone and Telegraph Corp.: *See*—Continued
Adams, Robert T., and Mindes. 3,069,664.
Alexander, Ben, Press, and Murgio. 3,025,514.
Altman, Frederick J. 3,048,782.
Argentieri, Michael A., and Lind. 3,020,497.
Arthur, Richard P., and Simkus. 3,038,977.
Baudin, Jean A. 3,051,881.
Baudin, Jean A. 3,053,999.
Beling, Thomas E. 3,015,777.
Bendell, Curtis B. 3,061,777.
Blanchard, Robert W. 3,045,191.
Blanchard, Robert W., and Nonnemacher. 3,029,304.
Bloomquist, Leonard A., and Marsh. 3,056,931.
Brown, Alex T., III. 3,036,276.
Burdett, Rhodes B. 3,039,177.
Byrd, Clarence G., and Hagan. 3,061,795.
Chapman, Richard F. 3,025,473.
Cheilik, Philip. 3,020,417.
Coles, Donald K., and Frame. 3,048,021.
Cox, John E. 3,033,940.
Cox, John E. 3,046,343.
Davis, Dean W. 3,031,597.
Day, Cyril L. 3,017,687.
Day, Cyril L. 3,020,622.
Day, Cyril L. 3,026,163.
Day, Cyril L. 3,067,486.
De Brosse, Kenneth L., and Behun. 3,025,680.
De Brosse, Kenneth L., and Lewis. 3,060,755.
De Faymoreau, Etienne C. L. 3,054,103.
De Faymoreau, Etienne C. L., and Baudin. 3,051,948.
Duncan, Robert H., Miller, Maciulis, and Fudaley. 3,060,265.
Eberhardt, Edward H. 3,054,917.
Eberhardt, Edward H. 3,069,644.
Econom, John J., Evans, and Reade. 3,028,943.
Engel, James S. 3,051,947.
Engel, James S., Bellis, and Huber. 3,054,107.
Erst, Stephen J. 3,068,471
Ferrar, Robert C. 3,029,336.
Ferrar, Robert C., and French. 3,048,840.
Ferrar, Robert C., and Hoffman. 3,045,113.
Fischer, Laurin G. 3,066,257.
Foos, William A. 3,040,268.
Fromm, Kenneth N. 3,050,729.
Fromm, Kenneth N. 3,061,831.
Gibson, John C. 3,017,465.
Gibson, John C. 3,059,067.
Goldan, Theodore J. 3,060,423.
Guinick, Adrion N., and Van Vechten. 3,029,006.
Habisohn, Victor J. 3,060,331.
Haigh, Leslie B., Bisk, and Tuttle. 3,048,662.
Haigh, Leslie B., Herbig, and Blanchard. 3,051,790.
Haigh, Leslie B., Herbig, and Bucarey. 3,069,503.
Haigh, Leslie B., and Kolmes. 3,036,182.
Halina, Joseph W. 3,060,267.
Harding, Robert, Jr. 3,051,785.
Haynes, Herbert S. 3,051,906.
Heiser, William H. 3,029,310.
Heppe, Robert J. 3,044,734.
Herbig, Henry R., and Schmidt. 3,015,696.
Hesse, Henry R. 3,040,314.
Hinton, Raymond C. P. 3,029,314.
Horwitz, Henry L., Hasser, Cox, and Westhead. 3,037,084.
Hughes, Robert W. 3,040,130.
Huist, George D. 3,020,481.
Hutton, Robert W. 3,056,859.
Hutton, Robert W., Sigo, and Adams. 3,046,352.
Kasper, Frank S., and Porter. 3,067,936.
Kastler, Alfred, and Arditi. 3,054,069.
Katz, Arthur J., and Ott. 3,045,233.
Khanna, Shyam M., and Vosburgh. 3,028,684.
Klein, Albert M. 3,035,853.
Lair, Julien J. B. 3,040,312.
Lamin, Leonard, and Habisohn. 3,056,856.
Lamin, Leonard, and Karklys. 3,059,048.
Lamin, Leonard, and Rice. 3,060,271.
Le Gendre, Victor J. 3,066,234.
Leonard, Edward J. 3,024,452.
Leonard, Edward J., Hemel, Tarschisch, Karow, Gibson, and Liston. 3,036,160.
Lewinter, Sidney W. 3,067,291.
Losher, Morton. 3,020,545.
Losher, Morton. 3,045,156.
Lucanera, Constantino. 3,051,951.
Lucanera, Constantino, Kolinsky, and Annechiarico. 3,040,319.
Macall, Thomas F. 3,069,495.
Marchese, Theodore J. 3,051,865.
Marino, Anthony J., Jr. 3,065,534.
Mason, Charles F. 3,054,985.
Mayle, Louis F. 3,021,073.
McAdams, Bruce. 3,040,128.
Menhennett, Gerald H. 3,066,267.
Mindes, Barry M. 3,045,114.
Muller, Fred A., and Keel. 3,055,843.
Muller, Fred A., and Keel. 3,055,898.
Murgio, Joseph. 3,069,623.
Nashman, Alvin E. 3,029,089.
Orthuber, Richard K. 3,054,900.
Ost, Stanley B., and Dzula. 3,025,354.
Padalino, Marco. 3,025,352.

International Telephone and Telegraph Corp.: *See*—Continued
Pagano, Carmine N., Bigo, and Hinton. 3,054,003.
Papp, George. 3,041,543.
Parker, Ernest G., Karpeles, and Craine. 3,048,842.
Parker, Ernest G., and Lehman. 3,054,106.
Pickering, Thomas A., Kasper, Arseneau, and Maxa. 3,038,969.
Pierrot, Andre, Lescroel, and Bernard. 3,062,668.
Pierrot, Andre, Lescroel, and Bernard. 3,062,667.
Poole, Ronald E. 3,048,714.
Press, Martin, and Davis. 3,054,102.
Prichard, Roy. 3,041,398.
Radcliffe, Arthur J., Jr., Ribner, and Sayner. 3,029,315.
Raver, Norman. 3,048,708.
Regis, Lawrence J. 3,039,065.
Regis, Lawrence J., and Richeson. 3,021,514.
Ribner, Morris. 3,065,363.
Richardson, Avery G. 3,020,358.
Roberts, William L., and De Faymoreau. 3,030,620.
Rogoff, Mortimer. 3,020,478.
Rothbart, Arthur. 3,051,916.
Rudnick, Paul, and Orthuber. 3,040,177.
Salinger, Hans W. G. 3,030,514.
Salinger, Hans W. G. 3,050,653.
Sandretto, Peter C. 3,025,518.
Sandretto, Peter C. 3,045,234.
Schildknecht, Raymond O. 3,048,661.
Schriefer, Robert G. 3,020,537.
Schultz, Robert T., and Sullivan. 3,015,736.
Servos, Gerald H. 3,069,620.
Sichak, William. 3,029,338.
Sichak, William. 3,029,396.
Silverschotz, Stanford B., and Schreiber. 3,054,011.
Sloan, William R. 3,069,681.
Smith, Frank P. 3,042,873.
Snow, Harold A., and Kettmann. 3,048,796.
Spooner, David L. 3,039,024.
Stack, Bogdan R. 3,060,269.
Staller, Karel J. 3,025,436.
Studebaker, Isaac R. 3,043,545.
Sullivan, John F., 3,051,828.
Tochig, Michael F., and Day. 3,015,586.
Van Vechten, Richard K. 3,035,748.
Van Vechten, Richard K., and Adams. 3,020,416.
Warren, Thomas B., and Harvey. 3,048,783.
Welch, Ralph C. 3,031,874.
Whittle, Robert L., Jones, Honeiser, and Margetts. 3,036,291.
Worley, Sidney J. 3,050,728.
Zaratkiewicz, Edwin A., and Smith. 3,015,591.
International Typographical Union of North America: *See*—
Brewer, Claire N. 3,021,698.
Goss, Charles O. 3,025,601.
International Vulcanizing Corp.: *See*—
Hardy, Henry. 3,025,568.
Hardy, Henry. 3,063,096.
International Wheel Corp.: *See*—
Solomon, Milton. 3,020,091.
International Ytong-Stabalite Co., Ltd.: *See*—
Fagrell, Johnny. 3,021,019.
Jakobsson, Per A. H., and Ohrn. 3,065,514.
Internationale Baumaschinenfabrik Aktiengesellschaft: *See*—
Muckel, Alfred, and Pfaff. 3,061,283.
Internazional Fonovisione, Societa: *See*—
Granelli, Pietro. 3,041,926.
Internuclear Co.: *See*—
Hub, Kenneth A. 3,065,162.
Inter-Ocean, N.V.: *See*—
Ratelband, Johannes B. 3,060,966.
Interpatent A.G.: *See*—
Beaumann, Ludwig G. 3,031,685.
Interplanetary Research & Development Corp.: *See*—
Sedlacsik, John and J., Jr. 3,049,092.
Sedlacsik, John, Jr. 3,016,876.
Sedlacsik, John, Jr. 3,051,394.
Interstate Bag Co., Inc.: *See*—
Steen, Harford K. 3,023,946.
Steen, Harford K. 3,034,699.
Interstate Bakeries Corp.: *See*—
Bogner, Joseph F., and Enoch. 3,031,309.
Enoch, Duard W., and Huber. 3,032,418.
Enoch, Duard W. and Huber. 3,062,658.
Interstate Folding Box Co., The: *See*—
Kleingers, Alfred B., Jr. 3,036,754.
Interstate Service Corp.: *See*—
Warren, Seymour P. 3,068,654.
Interwood AG.: *See*—
Kaiser, Hans. 3,051,219.
Intron International, Inc.: *See*—
Pintell, Robert H. 3,026,486.
Intrusion-Prepakt, Inc.: *See*—
Liver, Norman L. 3,023,585.
Rehmar, Solmon J., and Liver. 3,053,675.
Invac Corp.: *See*—
Fliegl, Werner. 3,032,163.
Invengineering, Inc.: *See*—
Lee, Arnold S. J. 3,036,584.
Lee, Arnold S. J. 3,045,668.
Inventa A.G. fur Forschung und Patentverwertung: *See*—
Bräun, Wilhelm. 3,024,280.
Braun, Wilhelm, and Zehnder. 3,047,565.
Conradin, Fritz, Bertossa, and Giesen. 3,030,429.
Inventa A.G. fur Forschung und Patentverwertung: *See*—Continued
Gabler, Rudolf. 3,019,132.
Griehl, Wolfgang. 3,037,003.
Griehl, Wolfgang. 3,053,611.
Griehl, Wolfgang, and Luckert. 3,036,989.
Griehl, Wolfgang, and Lueckert. 3,053,810.
Griehl, Wolfgang, and Luckert. 3,056,761.
Griehl, Wolfgang, and Lückert. 3,061,588.
Hoppe, Manfred. 3,067,171.
Kaur, Kurt. 3,047,481.
Ryffel, Kaspar. 3,041,915.
Ryffel, Kaspar, Rutishauser, and Schweizer. 3,047,541.
Schnider, Albert. 3,036,899.
Inventions Finance Corp.: *See*—
Danger, Roger. 3,049,803.
Invincible Metal Furniture Co.: *See*—
Schuette, John H. 3,029,118.
Ioannilli, Joseph R., to United Shoe Machinery Corp. Lockstitch shoe sole sewing machines. 3,054,365, 9–18–62, Cl. 112—32.
Iorio, Amedeo. Switch for electronic musical instrument. 3,052,147, 9–4–62, Cl. 84—171.
Iorio Instruments, Inc.: *See*—
Borell, James J. Re. 25,278.
Iossifidis, Anastase: *See*—
Aktarian, Sarkis, and Iossifidis. 3,037,282.
Iovinelli, Edward W. Scribing tool. 3,025,602, 3–20–62, Cl. 33—41.
Iowa Mfg. Co.: *See*—
Pollitz, Harold C. Re. 25,275.
Pollitz, Harold C. 3,047,152.
Pollitz, Harold C. 3,061,317.
Iowa Mfg. Co. of Cedar Rapids: *See*—
Watters, Jerry G. 3,041,946.
Iowa State College Research Foundation: *See*—
Boylan, David R., and Rounsley. 3,041,158.
Burroughs, Wise, and Means. 3,041,173.
Fowler, Eric B., and Rhinehart. 3,033,986.
Fritschen, Leo J. 3,054,846.
Hughes, William L. 3,048,653.
Thoburn, Wilbur C. 3,058,060.
Iowa State College Research Foundation, Inc.: *See*—
Beresford, Hobart. 3,015,308.
Fowler, Eric B., and Rhinehart. 3,027,458.
Hiltrop, Carl L., and Lemish. 3,042,535.
Yoerger, Roger R. 3,019,829.
Ipco Hospital Supply Corp.: *See*—
Schwartz, Joseph. 3,059,636.
Ippen, Arthur T.: *See*—
Tinneman, William P., and Ippen. 3,022,634.
Ippolito, Anthony C., to The Wurlitzer Co. Rotary electrical apparatus. 3,070,660, 12–25–62, Cl. 179—1.
Ipsen, Charles R. Boat cover support. 3,059,659, 10–23–62, Cl. 135—6.
Ipsen, Harold N., and K. H. Seelandt, to Ipsen Industries, Inc. Combined vacuum valve and cold trap. 3,019,809, 2–6–62, Cl. 137—340.
Ipsen Industries, Inc.: *See*—
Ipsen, Harold N., and Seelandt. 3,019,809.
Thorson, Lloyd A. 3,031,881.
Ipswich Processes, Inc.: *See*—
Norman, Daniel F. 3,064,864.
Irani, Meherwan C., to Metal Chlorides Corp. Apparatus for chlorination of refractory materials. 3,058,817, 10–16–62, Cl. 23—284.
Irazoqui, Carlos A., to Linguatronics, Inc. Audio-visual electronic instructor. 3,026,634, 3–27–62, Cl. 35—35.
Irby, James L., deceased; C. E. Irby, administratrix. Amalgam well. 3,019,891, 2–6–62, Cl. 206—1.
Ireland, George L. Auxiliary telephone cradle. 3,022,386, 2–20–62, Cl. 179—146.
Ireland, James C.: *See*—
Watts, John D., and Ireland. 3,052,301.
Iriarte, Jose. C. Djerassi, and F. A. Kincl, to Syntex Corp. 5α-halo-estran-10β,17β-diol-3-one and intermediates and process therefor. 3,053,839, 9–11–62, Cl. 260—239.55.
Irie, Tsuneo, T. Kagiya, and M. Asada, to Sumitoma Chemical Co., Ltd. Method of producing aluminum triethyl. 3,016,396, 1–9–62, Cl. 260—448.
Irion, Herbert J. Portable infant's seat having yieldable swinging retaining frame. 3,065,028, 11–20–62, Cl. 297—390.
Irish, Charles G., Jr., to Olin Mathieson Chemical Corp. Detonator device. 3,022,446, 2–20–62, Cl. 317—80.
Irish, Glenn E.: *See*—
Deering, Roland F., and Irish. 3,058,904.
Irish, Paul R.: *See*—
Hargens, Charles W., III, Irish, and Horscroft. 3,027,086.
Irish, Robert G.: *See*—
Osborne, William B. 3,021,925.
Irish, Warren B., to Shunk Mfg. Co. Scarifying blade for road building and construction machine. 3,059,357, 10–23–62, Cl. 37—145.
Irish, Wayne B.: *See*—
Frushour, Russel E., Costello, Farekas, and Irish. 3,064,540.
Irland, Max J., and V. L. Lindberg, to Ford Motor Co. Motor vehicle headlamp system. 3,017,536, 1–16–62, Cl. 315—83.
Irland, Max J., and A. H. Turner, to Ford Motor Co. Electrostatic painting. 3,054,697, 9–18–62, Cl. 117—93.

Irmischer, Paul H. Lighting fixtures. 3,057,994, 10–9–62, Cl. 240—81.
Irmiter, Theodore F., and G. Rubin, to Salada-Shirriff-Horsey Ltd. Preparation of dehydrated cooked mashed potato product. 3,027,264, 3–27–62, Cl. 99—207.
Irmscher, Hans O., to National Tea Packing Co., Inc. Compressible infusion package. 3,047,397, 7–31–62, Cl. 99—77.1.
Irmscher, Hans O., to National Tea Packing Co., Inc. Manufacture of infusion bags. 3,053,665, 9–11–62, Cl. 99—77.1.
Iron Fireman Mfg. Co.: *See*—
Deer, James W., and Sprando. 3,018,347.
Thierman, Irwin B. 3,046,796.
Ironrite, Inc.: *See*—
Bauman, Walter F. 3,042,241.
Schrader, Loren E. 3,019,538.
Irons, Ralph D., and E. W. Weeks, Jr., to Western Electric Co., Inc. Dip coating process. 3,053,699, 9–11–62, Cl. 117—212.
Ironside, Donald S., to Minneapolis-Honeywell Regulator Co. Transistor decision amplifier with temperature compensating means. 3,050,644, 8–21–62, Cl. 307—88.5.
Irropa Inc.: *See*—
Page, Irving. 3,043,936.
Irvin, Charles F., to Westinghouse Electric Corp. Bearing assembly for dynamoelectric machines. 3,048,454, 8–7–62, Cl. 308—36.4.
Irvin, Howard R.: *See*—
Grabowski, Thomas S., and Irvin. 3,053,800.
Irvin, Howard R., to Borg-Warner Corp. Bonding agents. 3,048,122, 11–20–62, Cl. 156—306.
Irvin, Ward M. Smoke purifier. 3,063,686, 11–13–62, Cl. 261—21.
Irvine, Joseph P.: *See*—
Scott, Wellington W., and Irvine. 3,015,184.
Irvine, Robert L. Storage vessel. 3,050,208, 8–21–62, Cl. 220—9.
Irving Air Chute Co.: *See*—
Mummendey, Arthur. 3,030,672.
Irving Air Chute Co. Inc.: *See*—
Greene, Charles E., and Pulley. 3,046,056.
Hatfield, John E. 3,032,303.
Hatfield, John E. 3,060,537.
Irving, Henry F.: *See*—
Geier, Herbert F., and Irving. 3,023,455.
Irving, Jack H.: *See*—
Beckner, Bernard E., Irving, and Drukey. 3,062,922.
Drukey, Donald L., Irving, and Wooldridge. 3,063,040.
Irwin, Arnold: *See*—
Sutton, Ernest S., Jr., Reilly, Berman, and Irwin. 3,025,795.
Irwin, Benjamin H.: *See*—
Audley, Edmund, Irwin, and Brighton. 3,020,379.
Irwin, Charles B., Jr.: *See*—
English, James W., and Irwin. 3,059,157.
Irwin, Claude M.: *See*—
Chidgey, Ronald W., Jr., and Irwin. 3,039,708.
Chidgey, Ronald W., Jr., and Irwin. 3,061,215.
Chidgey, Ronald W., Jr., and Irwin. 3,067,961.
Irwin, Donald W., to Fisher Governor Co. Pressure regulator construction. 3,032,054, 5–1–62, Cl. 137—116.5.
Irwin, Francis D.: *See*—
Ridenour, Charles A., Irwin, and Little. 3,057,140.
Irwin, Harry W. Safety construction for vehicular traffic. 3,049,062, 8–14–62, Cl. 94—1.
Irwin, Hubert B.: *See*—
Alexander, William O., and Irwin. 3,032,985.
Irwin, Jere F., to Kwik Lok Corp. Method and apparatus for applying bag closures. 3,061,983, 11–6–62, Cl. 53—14.
Irwin, Maurice D.: *See*—
Hopkinson, Harold H., Irwin, and Kessler. 3,020,820.
Hopkinson, Harold H., Irwin, and Kessler. 3,020,822.
Irwin, Neisler and Co.: *See*—
Gray, Allan P. 3,039,930.
Irwin, Robert C. Proportional liquid measuring device. 3,058,353, 10–16–62, Cl. 73—428.
Irwin, William R. Playing card game. 3,016,243, 1–9–62, Cl. 273—135.
Irwin, William R. High-low fuel burning systems in conjunction with plural fire chambers. 3,070,149, 12–25–62, Cl. 158—3.
Isaac, Nadine M.: *See*—
Fields, Paul R., and Isaac. 3,022,134.
Isaacs, John D.: *See*—
Folsom, Theodore R., and Isaacs. 3,047,721.
Isaacs, Philip K.: *See*—
Dearborn, Elizabeth C., and Isaacs. 3,050,527.
Dearborn, Elizabeth C., and Isaacs. 3,050,528.
Dearborn, Elizabeth C., and Isaacs. 3,050,529.
Trofimow, Alexei, Isaacs, and Wacome. 3,058,962.
Isaacs, Philip K., and A. Trofimow, to W. R. Grace & Co. Vinylidene and vinyl chloride copolymer. 3,033,812, 5–8–62, Cl. 260—31.8.
Isaacs, Sam: *See*—
O'Meara, David, and Isaacs. 3,067,700.
Isaacson Iron Works: *See*—
Moore, Thomas J. 3,049,955.
Isaacson, James: *See*—
Jones, Richard E., and Isaacson. 3,035,481.
Isaacson, Larry Z., to Formica Corp. Process for treating paper. 3,044,895, 7–17–62, Cl. 117—60.
Isaacson, Max: *See*—
Dilg, Earl W. 3,023,580.
Isaacson, Walter P., to Dresser Industries, Inc. Acoustic wave well logging system. 3,018,839, 1–30–62, Cl. 181—.5.
Isabeau, John, to Zenith Radio Corp. Transistor switching apparatus with leakage resistance stabilizing means. 3,023,321, 2–27–62, Cl. 307—88.5.
Isabeau, John G., to RS Electronics Corp. High frequency receiver with resonant cavity. 3,020,401, 2–6–62, Cl. 290—20.
Isaksen, Robert A.: *See*—
Ezrin, Myers, Isaksen, Newman, and Buchdahl. 3,052,924.
Isaksson, Erik H.: *See*—
Aarvoid, Reinhardt O., Isaksson, and Wadman. 3,056,386.
Isbell, Aubrey D. Line twist remover for spinning reels. 3,049,316, 8–14–62, Cl. 242—84.2.
Isbell, Clarence A., Jr.: *See*—
Neel, Robert M., Jaeger, and Isbell. 3,067,491.
Isbell, Willard D., to Midwestern Instruments, Inc. Automatic remote tape quantity transmitter for tape recording equipment. 3,069,777, 12–25–62, Cl. 35—172.
Isch, Hans: *See*—
Bretscher, Max, Farner, Isch, and Klauser. 3,068,468.
Ischer, Hans: *See*—
Demagistri, Albert, Ischer, and Wehrli. 3,030,351.
Demagistri, Albert, Ischer, and Wehrli. 3,033,846.
Isele-Arregger, Alfons, to Union Carbide Corp. Bottle closures. 3,033,407, 5–8–62, Cl. 215—39.
Iselin, Beat: *See*—
Schwyzer, Robert, Iselin, and Feurer. 3,035,041.
Isenberg, Alexander H. Sealed thermal insulation sections in pipe conduits. 3,032,070, 5–1–62, Cl. 138—149.
Isenberg, Sheldon F.: *See*—
Giacchetti, Anacleto D., and Isenberg. 3,051,782.
Isenhour, Burthel B. Tool for repairing electrical connections. 3,041,649, 7–3–62, Cl. 15—236.
Isenhour, Paul S. Two-legged garment and method. 3,037,-368, 6–5–62, Cl. 66—177.
Iserman, Lavern R., to United Equipment Accessories, Inc. Full rotary truck mounted crane and bracing outriggers. 3,035,713, 5–22–62, Cl. 212—145.
Iserman, Lavern R., and R. E. Stuck. One-man operation remote control mechanism for motor vehicles. 3,059,716, 10–23–62, Cl. 180—77.
Iserson, Hyman: *See*—
Haszeldine, Robert N., Iserson, and Lawlor. 3,068,481.
Iserson, Hyman, to Pennsalt Chemicals Corp. Vinylidene fluoride polymers and copolymers. 3,031,437, 4–24–62, Cl. 260—87.7.
Iserson, Hyman, to Pennsalt Chemicals Corp. Fluorinated organic compounds. 3,046,261, 7–24–62, Cl. 260—87.5.
Iserson, Hyman, F. E. Lawlor, and M. Hauptschein, to Pennsalt Chemicals Corp. 1,1,2,3-tetrafluorobutadiene, its preparation, and homopolymers and copolymers thereof. 3,062,-794, 11–6–62, Cl. 260—87.5.
Isgren, Elmer E., and C. C. Roe, to Le Tourneau-Westinghouse Co. Induction motor rotor. 3,024,378, 3–6–62, Cl. 310—211.
Isham, Timothy. Heating and cooling apparatus. 3,045,980, 7–24–62, Cl. 257—15.
Isherwood, Robert: *See*—
Nicklin, Thomas, Sommerville, Brunner, and Isherwood. 3,035,889.
Ishida, Fukusa: *See*—
Aizawa, Hiizu, and Ishida. 3,049,755.
Ishidate, Mitizo, M. Goto, and K. Ogasawara. Method of inactivating viruses. 3,031,378, 4–24–62, Cl. 167—78.
Ishidate, Morizo, and M. Sekiya. Process for producing aromatic *a*-acylaminoalkyl and aminoalkyl compounds. 3,057,-868, 10–9–62, Cl. 260—287.
Ishio—Sangyo Kaisha Ltd.: *See*—
Masukawa, Miyoshi, Ota, Yamada, and Shimato. 3,016,-286.
Ishikawajima Jukogyo Kabushiki Kaisha: *See*—
Kano, Saburo. 3,060,758.
Ishino, Seizo, and M. Ono, to Fuji Kagaku Kogyo Kabushiki Kaisha. Process for manufacture of magnesium aluminosilicate. 3,032,394, 5–1–62, Cl. 23—110.
Ishiyama, Tsunekatsu: *See*—
Takai, Unokichi, and Ishiyama. 3,027,595.
Ishizaki, Keizo: *See*—
Aida, Masao, and Ishizaki. 3,036,205.
Ishizuka, Sojiro, and K. Sato, to Japan Reichhold Chemicals, Inc. Method for producing a pearl-formed solid-state condensation-type resin. 3,058,159, 10–16–62, Cl. 18—41.2.
Isi, Inc.: *See*—
Tellefsen, Harold E., White, and Alessio. Re. 25,214.
Isler, Hans: *See*—
Druey, Jean, and Isler. 3,026,319.
Isler, Otto, M. Montavon, R. Rüegg, and P. Zeller, to Hoffmann-La Roche Inc. Process for the manufacture of carotene compounds. 3,015,680, 1–2–62, Cl. 260—666.
Isler, Otto, R. Rüegg, and U. Schwieter, to Hoffmann-La Roche Inc. Polyene aicohols and acyl derivatives thereof. 3,043,-863, 7–10–62, Cl. 260—488.
Isler, Otto, R. Ruegg, and G. Saucy, to Hoffmann-La Roche Inc. Production of isozeaxanthin dialkyl ethers. 3,047,-634, 7–31–62, Cl. 260—611.
Isler, Walter, to Cementfabrik Holderbank-Wildegg A.G. Pneumatic conveyor. 3,056,632, 10–2–62, Cl. 302—31.
Isley, Arther L. Tobacco hand opener. 3,021,848, 2–20–62, Cl. 131—130.
Isley, Jacob D., to Liberty Hosiery Mills, Inc. Combination garment. 3,020,556, 2–13–62, Cl. 2—224.

Isley, William C. : *See*—
Dufour, Raymond J., and Isley. 3,050,980.
Islip, Leonard : *See*—
Howell, Alun R., and Islip. 3,027,138.
Ismach, Aaron. Multi-dose jet injection device. 3,057,349, 10–9–62, Cl. 128—173.
Isono, Misao, and M. Abe, to Takeda Pharmaceutical Industries, Ltd. Dehydrogenation of steroids by microorganisms of the genus mycococcus. 3,056,731, 10–2–62, Cl. 195—51.
Isquith, George B. : *See*—
Linzell, Lee L., Redmond, and Isquith. 3,059,506.
Israel, Murray. Compositions and method for the parenteral administration of thyroxine. 3,055,974, 5–22–62, Cl. 167—58.
Israel, State of, The : *See*—
Tabor, Harry Z., and Bronicki. 3,040,528.
Israel, State of, The, represented by the Prime Minister : *See*—
Matz, Reuven, Forgacs, and Perlmutter. 3,029,196.
Israel, The Government of Israel on behalf of the State of : *See*—
Flaszenberg, Alexander, Prulov, and Lapidot. 3,067,023.
Israelson, Ewert O., to Sperry Rand Corp. Means for cushioning carriage return and tabulation. 3,048,255, 8–7–62, Cl. 197—183.
Isreeli, Jack, to Technicon Instruments Corp. Dialysis apparatus. 3,028,965, 4–10–62, Cl. 210—149
Isreeli, Jack, to Technician Instruments Corp. Automatic fluid sample supply apparatus. 3,038,340, 6–12–62, Cl. 73—423.
Isreeli, Jack, to Technicon Instruments Corp. Colorimeter flow curettes. 3,046,831, 7–31–62, Cl. 88—14.
Isreeli, Jack, to Technicon Instruments Corp. Glass tube coil assemblies and heating baths. 3,057,603, 10–9–62, Cl. 257—199.
Issaiewitch Rebikoff, Dimitri, to Loral Electronics Corp. Submarine casing adapted to be opened speedily. 3,044,655, 7–17–62, Cl. 220—4.
Istel, Jacques A., and L. B. San Born, to Parachutes Inc. Parachutes. 3,043,543, 7–10–62, Cl. 244—152.
Istituto Biochimico Italiano : *See*—
Canonica, Luigi. 3,019,257.
Italiana Resine, Societa : *See*—
Codignola, Franco, and Vogel. 3,061,589.
Italiana Telecommunicazioni Siemens-S.p.A., Societa : *See*—
Szaniszlo, Istvan. 3,037,523.
Italiana Westinghouse Freni & Segnali, Compagnia : *See*—
Pretini, Gisberto. 3,045,775.
Pretini, Gisberto. 3,057,321.
Pretini, Gisberto. 3,059,596.
Italiani Prodotti Schering, Societa : *See*—
Galimberti, Paolo, Gerosa, and Melandri. 3,025,317.
Italtubi Soc. per Az. Societa Riunite G.I.M.F.A.-Italtubi : *See*—
Marchioli, Giorgio, and Gremigni. 3,031,365.
Itek Corp. : *See*—
Keller, Aaron L., and Kuehnle. 3,034,643.
Kuehnle, Manfred R., Zeutschel, and Wilson. 3,042,201.
Welchman, W. Gordon, and Zeutschel. 3,042,199.
Iter Corp. : *See*—
Kuehnle, Manfred R. 3,045,529.
Ito, Akira, W. Hamanaka, H. Takagi, T. Wada, and K. Kawada, to Sankyo Kabushiki Kaisha. S-benzoylthiamine O-monophosphate and a process for preparing the same. 3,064,000, 11–13–62, Cl. 260—256.5.
Ito, Chuko, T. Okuda, and N. Hamabe, to Mitsubishi Kinzoku Kogyo Kabushiki Kaisha. Process for the production of uranium tetrafluoride from uranium raw material. 3,065,045, 11–20–62, Cl. 23—14.5.
Ito, Hiroshi, and K. Yamaji, to Canon Camera Co., Inc. Combined range and view finder with different size image fields. 3,053,136, 9–11–62, Cl. 8—1.5.
Ito, Sukehiro : *See*—
Morita, Masasuke, and Ito. 3,069,625.
Ito, Tamio : *See*—
Sakurai, Setsuji, Komachiya, and Ito. 3,019,232.
Ito, Tsutomj, to Howa Koyo Kabushiki-Kaisha (known as Howa Machinery, Ltd.) Apron-band sliver coiler. 3,069,729, 12–25–62, Cl. 19—159.
Itria, Oswald A., to Texaco Inc. Geophysical exploration. 3,048,235, 8–7–62, Cl. 181—.5.
Itria, Oswald A., and A. L. Parrack, to Texaco Inc. Method for seismic prospecting. 3,050,149, 8–21–62, Cl. 181—.5.
Itzkan, Irving, and P. R. McIsaac, to Sperry Rand Corp. Microwave logical decision element. 3,024,384, 3–6–62, Cl. 315—3.6.
Ivanko, Michael F. : *See*—
Ketterer, Stanley J., Edwards, and Ivanko. 3,038,429.
Ivers-Lee Co. : *See*—
David, Edward J. 3,039,246.
Iverson, Marlowe L. : *See*—
Woods, William G., and Iverson. 3,055,847.
Ives, Edwin, to Standard Oil Co. Solid ammonium nitrate propellant containing alkali metal aminobenzoate combustion catalyst. 3,026,191, 3–20–62, Cl. 149—18.
Ives, H. B., Co., The : *See*—
Benson, Fritz C. 3,055,690.
Hendrick, Robert J., and Benson. 3,036,329.
Morse, John E., and Benson. 3,050,770.
Wilson, Alfred C. 3,036,849.
Ivic, James O. Wind direction and turbulence indicator. 3,035,215, 9–25–62, Cl. 73—188.
Ivins, Herbert L. : *See*—
De Caro, Charles J., Henning, and Ivins. 3,066,302.
Henning, Robert W., and Ivins. 3,060,455.
Henning, Robert W., and Ivins. 3,060,437.
Ivory, Thomas H. Device for indicating the rise of molten metal to a predetermined level in a mold. 3,027,612, 4–3–62, Cl. 22—139.
Ivy, Jessie T. Receiver with lid covering the ejection slot. 3,030,722, 4–24–62, Cl. 42—16.
Ivy, Jessie T. Firing mechanism for a gas operated revolver. 3,030,723, 4–24–62, Cl. 42—69.
Ivy, Jessie T. Rotatably adjustable firing pin for center or rim fire cartridges. 3,050,894, 8–28–62, Cl. 42—69.
Ivy, Jessie T. Automatic hammer cocking and cylinder indexing means for revolvers. 3,051,057, 8–28–62, Cl. 89—191.
Iwai, Issei, and T. Konotsune, to Sankyo Co., Ltd. Process for the preparation of α-halogeno-β-methylvaleric acid derivatives. 3,062,873, 11–6–62, Cl. 260—487.
Iwai, Rinzo, and N. Yasumatsu, to Fuji Tsushinki Seizo Kabushiki Kaisha. Card reading and punching device for data processing machines. 3,027,068, 3–27–62, Cl. 234—20.
Iwakiri, Matsuo, and T. Hino, to Haris Co., Ltd. Method for manufacture of polyisobutylene-vinyl acetate graft copolymer. 3,020,257, 2–6–62, Cl. 260—45.5.
Iwama, Kazuo, and R. Ezaki, to Sony Corp. Junction type semiconductor device. 3,054,033, 9–11–62, Cl. 317—234.
Iwamoto, Kenneth T. Fishing gun. 3,057,338, 10–9–62, Cl. 124—.
Iwamura, Hiroshi, to Nippon Denkionkyo Kabushikikaisha. Magnetic recorder. 3,042,753, 7–3–62, Cl. 179—100.2.
Iwanowski, Gerald C. Adapter unit for connecting two vaccum producing power units in tandem. 3,065,001, 11–20–62, Cl. 285—177.
Iwashita, Wasaku. Transparent light and heat insulating window panes and shields. 3,042,561, 7–3–62, Cl. 154—2.7.
Iwata, Giichi. Focusing mass spectrometer. 3,047,717, 7–31–62, Cl. 250—41.9.
Iwata, Masafumi. Toilet tanks. 3,015,827, 1–9–62, Cl. 4—67.
Iwata, Minoru, T. Takatsuki, and H. Kubota, to Sumitomo Electric Industries, Ltd. Apparatus for vacuum evaporation of metals. 3,036,549, 5–29–62, Cl. 118—49.1.
Iwatsuki, Toshihiro : *See*—
Suzuki, Shigeru, Shimoyamada, Akabayashi, Ogawa, and Iwatsuki. 3,055,735.
Iwerks, Ub, to Xerox Corp. Xerographic fusing apparatus. 3,049,810, 8–21–62, 34—151.
Iwerks, Ub., to Xerox Corp. Xerographic developing apparatus. 3,057,324, 10–9–62, Cl. 118—11.
Iwersen, Sven, and J. T. Nelson, to Bell Telephone Laboratories, Inc. Method for applying a gold-silver contact onto silicon and germanium semiconductors and article. 3,028,663, 4–10–62, Cl. 29—195.
Izumi, Shinjiro. Automatic bottle-hooding apparatus. 3,061,988, 11–6–62, Cl. 53—136.
Izzi, Edmund L. : *See*—
Husby, Donald E., Eberhart, and Izzi. 3,065,338.
J-Dapter Co. : *See*—
McCormick, Rayna H. 3,062,008
J. E. Plastics Mfg. Corp. : *See*—
Ringlen, Arthur. 3,055,040.
J.E.T. Pellet Mill Corp. : *See*—
Clute, Francis E. 3,042,203.
J.M.J. Industries, Inc. : *See*—
Meger, Alfred F., and Hawthorne. 3,047,243.
J. O. C. Engineers Ltd. : *See*—
Crosskey, Albert A., and Crabtree. 3,022,996.
J.T.S. Enterprises, Inc. : *See*—
Kennemer, James L. 3,040,724.
Jabbusch, Robert O. : *See*—
Wilson, Clifford K., Hoopeston, and Jabbusch. 3,024,822.
Wilson, Clifford K., Mount, and Jabbusch. 3,016,936.
Wilson, Clifford K., Mount, and Jabbusch. 3,017,298.
Jabczynski, Hans J., U. Korber, and D. Voegtlen, to Siemens and Halske Aktiengesellschaft Berlin and Munich. System and circuit arrangement for routing telephone connections and the like. 3,038,968, 6–12–62, Cl. 179—18.
Jablonski, Theodore F. Fish hook weed guard. 3,040,466, 6–26–62, Cl. 43—42.09.
Jablonsky, Erich : *See*—
Wagner, Heinrich, and Jablonsky. 3,023,629.
Jablonsky, Erich, to Zahnradfabrik Friedrichshafen, Aktiengesellschaft. Power steering devices. 3,032,014, 5–1–62, Cl. 121—38.
Jablonsky, Erich. Limited motion power steering device. 3,047,087, 7–31–62, Cl. 180—79.2.
Jabsco Pump Co. : *See*—
Dole, Warren, and Sully. 3,053,362.
McLean, Murray G., Orth, and Doble. 3,041,979.
Jaccard, René-Philippe, to S. J. Kaufman. Time-meter. 3,018,613, 1–30–62, Cl. 58—22.9.
Jachino, Carlo, to General Railway Signal Co. Centralized traffic control system for railroads. 3,064,126, 11–13–62, Cl. 246—5.
Jack, Errand : *See*—
Bain, Robert H. 3,027,583.
Jack, John R., and W. E. Moeckel, to United States of America, National Aeronautics and Space Administration. Electro-thermal rocket. 3,016,693, 1–16–62, Cl. 60—35.5.

Jack, Karl D: *See*—
Lanham, Philip H, Jack, and Harvath 3,062,352

Jack, Milton K., and E. T. Wierman, to Hughes Aircraft Co. Low loss, high curie temperature ferrites for high power applications. 3,052,634, 9–4–62, Cl. 252—62.5.

Jack, Stanton E., to Aluminium Laboratories Ltd. Incorporation of metallic pigment in coating compositions. 3,025,252, 3–13–62, Cl. 260—23.

Jack, Stanton E., to Aluminium Laboratories Ltd. Welding of metal sheets. 3,066,390, 12–4–62, Cl. 29—157.3.

Jack, William A.: *See*—
Hanson, Frederick L., and Jack. 3,058,411.

Jack, William A., to Johns-Manville Corp. Acoustical panel. 3,027,965, 4–3–62, Cl. 181—33.

Jack, William A., to Johns-Manville Corp. Paper enclosed low density pad with septum. 3,037,578, 6–5–62, Cl. 181—33.

Jacke, Raymond E., to Reynolds Metals Co. Self-sealing metallic overwrap. 3,062,432, 11–6–62, Cl. 229—87.

Jackel, Arthur P., to Westinghouse Air Brake Co. Code checking means for remote control systems. 3,035,249, 5–15–62, Cl. 340—163.

Jäckel, Fritz, to Mobay Chemical Co. V-belts. 3,016,756, 1–16–62, Cl. 74—234.

Jackel, Roland D. Ceramic separators for primary batteries. 3,021,379, 2–13–62, Cl. 136—145.

Jackes, Arthur M., to Bell Aerospace Corp. Aircraft take-off assist device. 3,016,214, 1–9–62, Cl. 244—63.

Jackle, Reinhard. Electric motor for instruments. 3,032,669, 5–1–62, Cl. 310—154.

Jacklin, Robert L.: *See*—
Malthaner, Sylvester A., and Jacklin. 3,019,617.

Jacklin, Stan E. Tamping device. 3,017,810, 1–23–62, Cl. 94—48.

Jackman, Norman. Display packaging for hosiery and other garments. 3,037,621, 6–5–62, Cl. 206—80.

Jackman, Richard L., to Knocke & Associates, Inc. Interlocking washer and nut. 3,062,252, 11–6–62, Cl. 151—38.

Jackowski, Charles S.: *See*—
Baker, Joseph C., and Jackowski. 3,024,972.

Jacks, Basil, to American Bosch Arma Corp. Magnetostrictive wired storage. 3,063,037, 11–6–62, Cl. 340—173.

Jackson, Albert P., and S. A. Inman. Golfer's aid. 3,063,721, 11–13–62, Cl. 273—183.

Jackson, Alexander F.: *See*—
Musson, Donald M., and Jackson. 3,032,217.

Jackson, Alexis E.: *See*—
Makaroff, Vadim S., and Jackson. 3,044,686.

Jackson, Alonzo C., to Combustion Engineering, Inc. Pressure induction welder heating coil having integral flux concentrators with gas chamber and self centering means. 3,031,554, 4–24–62, Cl. 219—9.5.

Jackson, Amos E.: *See*—
Guinn, J. Edwin. 3,049,841.

Jackson, Anton and B. A. Bracket reinforcement for locking connector. 3,030,602, 4–17–62, Cl. 339—92.

Jackson, Barbara A. Packaged confectionery and method of making same. 3,035,925, 5–22–62, Cl. 99—180.

Jackson, Boris A.: *See*—
Jackson, Anton and B. A. 3,030,602.

Jackson, Carey B., and R. E. Shearer, to MSA Research Corp. Thermally regenerative manganate galvanic cell. 3,026,364, 3–20–62, Cl. 136—86.

Jackson, Carlton T., to General Railway Signal Co. Control panel for railway traffic controlling systems. 3,056,121, 9–25–62, Cl. 340—225.

Jackson, Carlton T., to General Railway Signal Co. Highway crossing gate control system for railroads. 3,060,312, 10–23–62, Cl. 246—130.

Jackson, Charles I., and D. P. Hacker. Rotor valve. 3,037,738, 6–5–62, Cl. 251—172.

Jackson, Clarence E.: *See*—
Shrubsall, Arthur E., Claussen, Schreiner, and Jackson. 3,031,345.

Jackson, Corwill, deceased, by The Detroit Bank & Trust Co. and M. N. Jackson, executors, to Jackson Vibrators, Inc. Tie tamping or ballasting machine. 3,022,744, 2–27–62, Cl. 104—12.

Jackson, David W. Electrical switch. 3,048,670, 8–7–62, Cl. 200—24.

Jackson, Dean B.: *See*—
Sommer, William F., and Jackson. 3,060,846.

Jackson, Dennis E. Method for determining the form of waves produced in the lungs and respiratory passages by the beating of the heart and movements of blood within the heart, lungs and chest cavity. 3,040,756, 6–26–62, Cl. 128—2.05.

Jackson, Donald R., and L. G. Lundsted, to Wyandotte Chemicals Corp. Mixtures of novel conjugated polyoxyethylene-polyoxypropylene compounds. 3,036,118, 5–22–62, Cl. 260—484.

Jackson, Donald R., and L. G. Lundsted, to Wyandotte Chemicals Corp. Mixtures of novel conjugated polyoxyethylene-polyoxypropylene compounds. 3,036,130, 5–22–62, Cl. 260—584.

Jackson, Edmund C. Device for coating and uncurling a photographic print. 3,065,492, 11–27–62, Cl. 15—506.

Jackson, Frank L.: *See*—
Tuller, William N., and Jackson. 3,042,503.

Jackson, Frank L., B. M. Fisher, and G. L. Jordan, to National Potash Co. Beneficiating potash ores. 3,037,624, 6–5–62, Cl. 209—2.

Jackson, Frederick R., Jr., to Bell Telephone Laboratories, Inc. Phantastron circuit with output waveform linearization means. 3,025,469, 3–13–62, Cl. 328—112.

Jackson, George W., to Utah Hydro Corp. Gas burner. 3,037,553, 6–5–62, Cl. 158—99.

Jackson, George W., to General Motors Corp. Shock absorber and air spring unit assembly. 3,039,760, 6–19–62, Cl. 267—64.

Jackson, George W., and J. F. Pribonic, to General Motors Corp. Control mechanism. 3,060,963, 10–30–62, Cl. 137—596.

Jackson, Harold E., to Tecalemit Ltd. Improved method of bonding filter elements. 3,042,571, 7–3–62, Cl. 156—191.

Jackson, Harold E., to Imperial-Eastman Corp. Reinforced flexible tubing. 3,049,762, 8–21–62, Cl. 18—59.

Jackson, Harold E., and T. F. Moss, to Imperial-Eastman Corp. Coupling for plastic tubes. 3,021,571, 2–20–62, Cl. 18—56.

Jackson, Harold L., to E. I. du Pont de Nemours and Co. Process for preparing silane. 3,043,663, 7–10–62, Cl. 23—204.

Jackson, Harold L., to E. I. du Pont de Nemours and Co. Preparation of silane. 3,068,069, 12–11–62, Cl. 23—204.

Jackson, Harold M., II, to Bell Telephone Laboratories, Inc. Automatic magnetron control circuits. 3,063,012, 11–6–62, Cl. 328—8.

Jackson, Herbert B.: *See*—
Collie, Robert M., and Jackson. 3,018,893.

Jackson, James E.: *See*—
Meisel, Harry, and Jackson. 3,029,168.

Jackson, James G. Optical micrometer. 3,029,690, 4–17–62, Cl. 88—24.

Jackson, James H. Scaffold bracket. 3,044,573, 7–17–62, Cl. 182—87.

Jackson, James R., and J. H. Marsee, to Phillips Petroleum Co. Apparatus for conducting washing operations in a well. 3,032,118, 5–1–62, Cl. 166—243.

Jackson, James W., Jr., to Bird & Son, Inc. Self-sealing shingle adhesive. 3,052,928, 5–8–62, Cl. 50—243.

Jackson, John: *See*—
Graulig, Oskar, and Jackson. 3,021,768.

Jackson, John, and R. J. Ossenkop, to American Machine & Foundry Co. Cigarette packaging machine. 3,029,572, 4–17–62, Cl. 53—7.

Jackson, John G., Jr., and A. F. Rhodes, to McEvoy Co. Pipe hanger. 3,017,931, 1–23–62, Cl. 166—208.

Jackson, John K.: *See*—
Byloff, Robert C., and Jackson. 3,067,334.

Jackson, John K., to The Garrett Corp. Precision pneumatic speed sensing governor. Re. 25,210, 7–31–62, Cl. 137—956.

Jackson, John K., and W. D. Whitaker, to The Garrett Corp. Coordinated fuel and turbine inlet control responsive to combustion gas temperature and speed. 3,046,738, 7–31–62, Cl. 60—39.25.

Jackson, John M., to Armco Steel Corp. Non-directional oriented silicon-iron. 3,061,486, 10–30–62, Cl. 148—111.

Jackson, John M., H. W. Steininger, R. H. Beel, and F. R. Werner, to The National Cash Register Co. Special counter mechanism for cash registers and accounting machines. 3,061,183, 10–30–62, Cl. 235—6.

Jackson, Jonas A., and R. J. Williams. Portable stock chute having combined chassis and head-gate frame. 3,037,482, 6–5–62, Cl. 119—99.

Jackson, Joseph B., to Draper Corp. Binder and cutter mechanism. 3,037,531, 6–5–62, Cl. 139—263.

Jackson, Joseph G.: *See*
Samuel, George A., Bell, Grosvenor and Jackson. 3,021,231.

Jackson, Julius, to E. I. du Pont de Nemours and Co. Particle size reduction of quinacridone and phthalocyanine pigments. 3,030,370, 4–17–62, Cl. 260—279.

Jackson, Kenneth, and M. S. Bloom, to Imperial Chemical Industries Ltd. Method of conducting gaseous chemical reactions. 3,049,488, 8–14–62, Cl. 204—312.

Jackson, Kenneth R.: *See*—
Waugh, Charles C., and Jackson. 3,043,139.
Waugh, Charles C., and Jackson. 3,043,140.
Waugh, Charles C., and Jackson. 3,043,141.

Jackson, Leyman E.: *See*—
Urfer, Allen D., and Jackson. 3,043,707.

Jackson, Lowell L. Portable A. C.-D. C. welder and power supply. 3,042,808, 7–3–62, Cl. 290—1.

Jackson, Margie N.: *See*—
Jackson, Corwill. 3,022,744.

Jackson, Martin A.: *See*—
Van Zelm, Willem D., and Jackson. 3,017,163.

Jackson, Norman W.: *See*—
Molins, Desmond W., and Jackson. 3,026,879.

Jackson, Paul O. C.: *See*—
Rinehuls, Cecil C., and Jackson. 3,046,511.

Jackson, Paul S., to W. F. and John Barnes Co. Punch press with die holder adjusting and locking means. 3,021,742, 2–20–62, Cl. 83—700.

Jackson, Percy, to William Doxford & Sons (Engineers) Ltd. Opposed piston Diesel engines. 3,033,184, 5–8–62, Cl. 123—65.

Jackson, Percy, and E. Taylor, to William Doxford & Sons (Engineers) Ltd. Opposed piston, two-stroke cycle, diesel engines. 3,048,155, 8–7–62, Cl. 123—51.

Jackson, Percy, and E. Taylor, to William Doxford & Sons (Engineers) Ltd. Exhaust means for multi-cylinder multiple piston internal combustion engines. 3,051,147, 8–28–62, Cl. 123—51.

Jackson, Richard W.: *See*—
Weber, Joseph A., Thomas, and Jackson. 3,052,284.

Jackson, Robert C.: *See*—
Rhodes, William H., Brenza, Winger, and Jackson. 3,049,295.

Jackson, Robert C., to Monsanto Chemical Co. Spinning and twisting apparatus. 3,067,565, 12–11–62, Cl. 57—54.

Jackson, Robert E., to Challenge-Cook Bros. Inc. Apparatus for dispensing articles from stacks. 3,034,684, 5–15–62, Cl. 221—251.

Jackson, Robert G., and P. J. Garner, to Shell Oil Co. Fuel composition. 3,052,531, 9–4–62, Cl. 44—69.

Jackson, Robert L., Jr., to American Air Filter Co., Inc. Decorative filamentous mat and method of making same. 3,036,946, 5–29–62, Cl. 156—167.

Jackson, Robert P. Apparatus for treating body and spinal distortions. 3,042,025, 7–3–62, Cl. 128—33.

Jackson, Robert T.: *See*—
Spilman, Raymond, Jerabek, and Jackson. 3,066,792.

Jackson, Robert W.: *See*—
Beal, Philip E., III, and Jackson. 3,021,327.
Schneider, William P., and Jackson. 3,040,065.

Jackson, Robin R.: *See*—
Bright, Richard L., and Jackson. 3,018,380.

Jackson, Roderick M.: *See*—
Brown, Calvin F., Jackson, and Campbell. 3,045,598.

Jackson, Ronald E. Helicopter aircraft. 3,065,934, 11–27–62, Cl. 244—17.21.

Jackson, Rose D.: *See*—
Musson, Donald M., and Jackson. 3,032,217.

Jackson, Roy V.: *See*—
Wheilacker, Helmuth, and Jackson. 3,024,123.

Jackson, Selma S. Shower board. 3,046,567, 7–31–62, Cl. 4—185.

Jackson, Thomas M., and E. A. F. Sell, to International Standard Electric Corp. Cold cathode switching devices. 3,035,201, 5–15–62, Cl. 313—197.

Jackson Vibrators, Inc.: *See*—
Derler, Charles J. 3,070,034.
Jackson, Corwill. 3,022,744.

Jackson, Walter: *See*—
Macrae, William K., and Jackson. 3,050,260.

Jackson, Walter B., G. W. Johanson, and L. F. Lowe, to United States of America, Air Force. Smear test sampler for radioactive and bacteriological surveys. 3,066,342, 12–4–62, Cl. 15—104.

Jackson, Walter L., and G. A. K. Hunt, to Miller Hofft, Inc. Apparatus for producing wood flakes. 3,030,987, 4–24–62, Cl. 144—42.

Jackson, Warren Jr.: *See*—
Burhans, Ralph W., and Jackson. 3,029,642.
Burhans, Ralph W., Jackson, and Stevko. 3,048,335.

Jackson, Warren, Jr., and R. H. Jones, to The Standard Oil Co. Apparatus for altering pressure in vessels. 3,059,891, 10–23–62, Cl. 251—26.

Jackson, William H., to The Udylite Corp. Barrel plating machine. 3,038,851, 6–12–62, Cl. 204—213.

Jackson, William H., and R. J. Winter, to The Udylite Corp. Variable transfer mechanism for conveying apparatus. 3,067,696, 12–11–62, Cl. 104—162.

Jackson, William M., II: *See*—
Munsell, David D., and Jackson. 3,015,853.

Jackson, William W.: *See*—
Pavlak, Walter A. 3,066,200.

Jackson, Winston J., Jr.: *See*—
Caldwell, John R., Jackson, and Hill. 3,038,887.

Jacksonville Blow Pipe Co.: *See*—
Montgomery, William T. S. 3,022,753.

Jacob, Eugen: *See*—
Goebel, Herbert, Jacob, Kolling, and Roelen. 3,024,208.

Jacob, Fraser B.: *See*—
Stieglitz, Hermann W., Jacob, and McIlvin. 3,036,204.

Jacob, Fraser B., to Seton Corp. Welding apparatus. 3,036,-203, 5–22–62, Cl. 219—101.

Jacob, Morris L., to Pittsburgh Annealing Box Co. Method of making corrugated coil separators for annealing stacks. 3,068,553, 12–18–62. Cl. 29—150.

Jacob, Morris L., to Pittsburgh Annealing Box Co. Coil separators for annealing stacks. 3,069,148, 12–18–62, Cl. 266—5.

Jacob, Ralph J., and D. E. Deming, to The General Tire & Rubber Co. Pneumatic cord tire construction. 3,068,926, 12–18–62, Cl. 152—354.

Jacob, Raymond: *See*—
Rabeux, Jean, and Jacob. 3,043,926.

Jacob, Robert M., and J. G. Robert, to Usines Chimiques Rhone-Poulenc, Societe des. Derivatives of oxopiperidinyl phenthiazines. 3,047,571, 7–31–62, Cl. 260—243.

Jacob, Robert M., and R. J. Horclois, to Usines Chimiques Rhone-Poulenc, Societe des. Phenthiazine derivatives. 3,055,890, 9–25–62, Cl. 260—243.

Jacob, Robert M., and N. M. Preau (nee Joseph), to Societe des Usines Chimiques Rhone-Poulenc. Threo-phenyl-(benzylthio)-(2-piperidyl) methane. 3,058,985, 10–16–62, Cl. 260—293.4.

Jacob, Theodore A., and N. R. Trenner, to Merck & Co., Inc. Purification of silane. 3,019,087, 1–30–62, Cl. 23—204.

Jacob, Walter E. W., to Telefonaktiebolaget L. M. Ericsson. Pulse transmission system. 3,062,919, 11–6–62, Cl. 179—15.

Jacob, Walter H. Safety holding and release device for fish landing nets. 3,023,530, 3–6–62, Cl. 43—12.

Jacobi, Edward N., to Briggs & Stratton Corp. Lever tumbler side bar lock with dust cover. 3,029,626, 4–17–62, Cl. 70—366.

Jacobi, Edward N., to Briggs & Stratton Corp. Cylinder lock. 3,040,557, 6–26–62, Cl. 70—367.

Jacobi, Elfriede: *See*—
Bovarnick, Bennett, and Joachim. 3,021,285.

Jacobi, Ernst, A. Van Schoor, and H. Hahn, to E. Merck Aktiengesellschaft. Production of 2,3-dicyan-1,4-dithiaanthrahydroquinone and anthraquinone. 3,030,381, 4–17–62, Cl. 260—327.

Jacobi, Ernst, and D. Erdmann, to E. Merck Aktiengesellschaft. Bactericidal process using p-hydroxydiphenylamine. 3,042,579, 7–3–62, Cl. 167—31.

Jacobi, Ernst, and H. Bremer, to E. Merck Aktiengesellschaft. Aerosol generating preparations. 3,042,580, 7–3–62, Cl. 167—39.

Jacobi, Ernst, S. Lust, and A. van Schoor, to E. Merck, Aktiengesellschaft. Nematocidal agents. 3,046,189, 7–24–62, Cl. 167—22.

Jacobi, K., to Kolmar Laboratories, Inc. Process for removing the water soluble materials from a keratin structure and cosmetic or pharmaceutical product formed therefrom. 3,033,755, 5–8–62, Cl. 167—90.

Jacobi, Richard, and K. Boeckling, to Deutsche Tafeglas Aktiengesellschaft Detag. Optical filters. 3,059,051, 10–16–62, Cl. 178—7.85.

Jacobitti, Edward: *See*—
Deming, Royce D., Jacobitti, Kennedy, Large, and Pruden. 3,046,525.

Jacobitti, Edward, D. A. James, C. G. Morrison, and J. B. Newsom, to Bell Telephone Laboratories, Inc. Class translator circuits. 3,025,357, 3–13–62, Cl. 179—18.

Jacobs, Albert B.: *See*—
Dressler, Robert, and Jacobs. 3,034,723.

Jacobs, Clare S., to Jacob's Industries, Inc. Vehicle sun visor. 3,059,961, 10–23–62, Cl. 296—97.

Jacobs, Clifford R., to United States of America, Army. Closure for protective device. 3,033,199, 5–8–62, Cl. 128—141.

Jacobs, Edward: *See*—
Jacobs, Irving. 3,050,871.

Jacobs, Edward C., to D. Calvin. Detergent dispenser for flush valve fixtures. 3,060,456, 10–30–62, Cl. 4—225.

Jacobs, Edward J. H., to Allpak Products Ltd. Container for packaging articles. 3,053,431, 9–11–62, Cl. 229—39.

Jacobs, Frederick L., and J. A. Prochaska, to Heublein, Inc. Treatment of grain alcohol. 3,061,438, 10–30–62, Cl. 99—36.

Jacobs, Gordon W.: *See*—
Fechheimer, Paul R., Jacobs, and Harlan. 3,037,536.

Jacobs, Heinz, J. Claesgens, and F. Heyn, to Industrie-Companie. Heat exchangers. 3,039,744, 6–19–62, Cl. 257—251.

Jacob's Industries, Inc.: *See*—
Jacobs, Clare S. 3,059,961.

Jacobs, Irving, to E. Jacobs. Question and hidden answer device. 3,050,871, 8–28–62, Cl. 35—9.

Jacobs, Ivan M., to General Electric Co. Nuclear fuel element leak detector. 3,069,339, 12–18–62, Cl. 204—154.2.

Jacobs, James H., to Union Carbide Corp. Electrolytic manganese production. 3,034,973, 5–15–62, Cl. 204—105.

Jacobs, James W., to General Motors Corp. Refrigerating apparatus. 3,023,589, 3–6–62, Cl. 62—156.

Jacobs, James W., to General Motors Corp. Refrigerating apparatus. 3,024,963, 3–13–62, Cl. 230—15.

Jacobs, James W., to General Motors Corp. Domestic appliance. 3,026,815, 3–27–62, Cl. 103—218.

Jacobs, James W., to General Motors Corp. Dispenser for washing apparatus. 3,028,051, 4–3–62, Cl. 222—41.

Jacobs, James W., to General Motors Corp. Dishwasher. 3,034,519, 5–15–62, Cl. 134—95.

Jacobs, James W., to General Motors Corp. Vehicle refrigerating apparatus. 3,037,363, 6–5–62, Cl. 62—133.

Jacobs, James W., to General Motors Corp. Refrigerating apparatus. 3,048,024, 8–7–62, Cl. 62—156.

Jacobs, James W., to General Motors Corp. Dishwasher. 3,049,133, 8–14–62, Cl. 134—57.

Jacobs, James W., to General Motors Corp. Spray tube for a dishwasher. 3,051,183, 8–28–62, Cl. 134—174.

Jacobs, James W., to General Motors Corp. Refrigerating apparatus with defrost means. 3,057,169, 10–9–62, Cl. 62—154.

Jacobs, James W., to General Motors Corp. Dishwashing machine. 3,063,459, 11–13–62, Cl. 134—58.

Jacobs, James W., to General Motors Corp. Cleaning apparatus for dishes or the like. 3,064,661, 11–20–62, Cl. 134—58.

Jacobs, James W., to General Motors Corp. Dishwasher. 3,068,877, 12–18–62, Cl. 134—99.

Jacobs, James W., to General Motors Corp. Timer for domestic appliance. 3,070,714, 12–25–62, Cl. 307—141.

Jacobs, James W., and R. L. Mercer, to General Motors Corp. Domestic appliance. 3,024,074, 3–6–62, Cl. 312—213.

Jacobs, James W., and E. C. Simmons, to General Motors Corp. Refrigerating apparatus. 3,036,442, 5–29–62, Cl. 62—344.
Jacobs, James W., and F. H. McCormick, to General Motors Corp. Cabinet framework and drawer support. 3,070,417, 12–25–62, Cl. 312—341.
Jacobs, John B. Method of identifying newly born infants. 3,016,056, 1–9–62, Cl. 128—346.
Jacobs, John C.: *See*—
Stormer, Joseph R., and Jacobs. 3,027,600.
Jacobs, Joseph H., to Jacobs Wind Electric Co. Adjustable lathe center. Re. 25,181, 6–5–62, Cl. 82—33.
Jacobs, Lester G., to Birkenwald, Inc. Air curtain reach-in display cooler. 3,021,691, 2–20–62, Cl. 62—256.
Jacobs Mfg. Co., The: *See*—
Haviland, Girard S. 3,022,082.
Stoner, Arthur M. 3,044,790.
Jacobs, Mark N., and L. Paroselli. Muntin bar assemblies. 3,058,517, 10–16–62, Cl. 160—136.
Jacobs, Orville W., to The Sheffield Corp. Transfer apparatus. 3,025,731, 3–20–62, Cl. 78—96.
Jacobs, Robert B.: *See*—
Hardy, Richard J., Martin, and Jacobs. 3,054,289.
Kapff, Sixt F., and Jacobs. 3,060,723.
Jacobs, Robert B., and J. C. Rhodes, to Standard Oil Co. Continuous vapor pressure apparatus. 3,037,375, 6–5–62, Cl. 73—53.
Jacobs, Robert L., to Coca-Cola Co. Counterpressure filling system. 3,068,910, 12–18–62, Cl. 141—40.
Jacobs, William A.: *See*—
Bivman, Samuel J., and Jacobs. 3,067,553.
Jacobs, William H., and D. J. Timpone, ½ to W. Coffee. Bobbin hobble. 3,019,893, 2–6–62, Cl. 206—53.
Jacobs, William H., and W. Witzel; said Witzel assor. to Jet Spray Cooler, Inc., and said Jacobs assor. to Magic Whirl Dispensers, Inc. Beverage maker. 3,052,791, 9–4–62, Cl. 219—43.
Jacobs Wind Electric Co.: *See*—
Jacobs, Joseph H. Re. 25,181.
Jacobsen, Albert I.: *See*—
Baynes, Gene P., and Jacobsen. 3,027,632.
Jacobsen, Alexander, and E. V. Kools, to Kools Bros., Inc. Forage cutter and blower. 3,040,794, 6–26–62, Cl. 146—107.
Jacobsen, Chester L., to Jacobsen Products, Inc. Illumination device. 3,056,021, 9–25–62, Cl. 240—46.51.
Jacobsen, Edward H., and S. O. Nelson, to Hiller Aircraft Corp. Collapsible and portable rotary wing aircraft. 3,029,047, 4–10–62, Cl. 244—17.11.
Jacobsen, Hans, to Novo Terapeutisk Laboratorium A/S. Therapeutical antibiotic composition. 3,016,330, 1–9–62, Cl. 167—65.
Jacobsen, Howard G.: *See*—
Ferrari, Ernest R. 3,048,207.
Jacobsen, Ib Jorgen, to Mikrovaerk A/S. Tilting mechanism in mould conveyors in plants for moulding chocolate and similar masses. 3,067,859, 12–11–62, Cl. 198—155.
Jacobsen, Jacob. Adjusting means for a lamp structure. 3,041,060, 6–26–62, Cl. 267—1.
Jacobsen, Jacob. Fishline sinker attachment. 3,057,108, 10–9–62, Cl. 43—43.12.
Jacobsen, Jan L. W. Anamorphotic lens system. 3,041,935, 7–3–62, Cl. 88—57.
Jacobsen, John B., E. B. Christian, and E. J. McNamara, to Detrex Chemical Industries, Inc. Multi-flight washer or degreaser. 3,049,134, 8–14–62, Cl. 134—72.
Jacobsen, Kenneth L.: *See*—
Erickson, Edward B., Jacobsen, Giusti, Merrill, and Smith. 3,053,460.
Jacobsen Mfg. Co.: *See*—
Hill, Joseph A. 3,064,748.
Hill, Joseph A., and Hoffmeyer. 3,058,771.
Lewis, Evan T. 3,058,280.
Lewis, Evan T. 3,058,281.
Jacobsen, Paul W., to A.C.T., Inc. Air actuated self-energizing tensioning system. 3,061,159, 10–30–62, Cl. 226—39.
Jacobsen Products, Inc.: *See*—
Jacobsen, Chester L. 3,056,021.
Jacobsen, Robert K.: *See*—
Svoboda, George, Jacobsen, and Nozette. 3,061,137.
Jacobsen, Wilbur C. Method and appliance for heat insulation. 3,044,915, 7–17–62, Cl. 154—44.
Jacobsohn, Boris A.: *See*—
Booth, Eugene T., Jr., Pontius, Jacobsohn, and Slade. 3,024,009.
Jacobson, Albert, and C. Goldberg. Textile sizing spray and method. 3,068,120, 12–11–62, Cl. 117—104.
Jacobson, Carl H.: *See*—
Takats, Zoltan, and Jacobson. 3,018,709.
Jacobson, Clifford H.: *See*—
Hackman, Amos W., and Jacobson. 3,016,441.
Jacobson, David L, to Grand Haven Brass Foundry. Valve for poultry waterer. 3,035,606, 5–22–62, Cl. 137—408.
Jacobson, Delbert G. Crop harvesting attachment for combines. 3,049,852, 8–21–62, Cl. 56—23.
Jacobson, Edward, and A. Siegelman, to Allen-Bradford, Inc. Portable radio direction finder. 3,020,548, 2–6–62, Cl. 343—121.
Jacobson, Edwin B., to Jervis Corp. Remote controlled apparatus. 3,030,821, 4–24–62, Cl. 74—501.
Jacobson, Edwin B., to Jervis Corp. Remotely controlled rear view mirrors and the like. 3,057,262, 10–9–62, Cl. 88—93.
Jacobson, Harvey B.: *See*—
Brandon, Clarence W. 3,042,115.
Brandon, Clarence W. 3,045,749.
Jacobson, Howard W.: *See*—
Jenkins, Wilmer A., II, and Jacobson. 3,020,148.
Jacobson, John M. Power operated saw having oppositely reciprocating blades. 3,016,932, 1–16–62, Cl. 143—68.
Jacobson, Julian K. Tire mounting apparatus. 3,037,549, 6–5–62, Cl. 157—1.22.
Jacobson, Louis: *See*—
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Jacobson, Martin, to United States of America, Agriculture. Method of attracting male gypsy moth with 12-acetoxy-1-hydroxy-9-octadecene. 3,018,219, 1–23–62, Cl. 167—48.
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Jacobson, Moses G., and F. J. De Luca, to Mine Safety Appliances Co. Electrochemical determination of components in gas mixtures. 3,049,664, 8–14–62, Cl. 324—29.
Jacobson, Oscar D., to Bell Telephone Laboratories, Inc. Automatic wiring apparatus. 3,019,822, 2–6–62, Cl. 140—71.
Jacobson, Oscar D., to Bell Telephone Laboratories, Inc. Circuit controller. 3,020,369, 2–6–62, Cl. 200—104.
Jacobson, Oscar D., to Bell Telephone Laboratories, Inc. Switching device. 3,030,451, 4–17–62, Cl. 179—27.54.
Jacobson, Oscar D., to Bell Telephone Laboratories, Inc. Automatic wiring apparatus. 3,030,985, 4–24–62, Cl. 140—71.
Jacobson, Oscar D., and H. K. Krantz, to Bell Telephone Laboratories, Inc. Switching device. 3,056,868, 10–2–62, Cl. 200—87.
Jacobson, Richard L., to Union Tank Car Co. Bar mill entry guide arrangement. 3,035,464, 5–22–62, Cl. 80—51.
Jacobson, Walter A. Portable electric livestock barrier and gate. 3,016,229, 1–9–62, Cl. 256—10.
Jacobson, Wayne D., and S. R. Booth, to Caterpillar Tractor Co. System for lubrication of engine turbochargers. 3,057,436, 10–9–62, Cl. 184—6.
Jacoby Abraham, to Litton Systems, Inc. Rotational shaft encoder 3,054.098, 9–11–62, Cl. 340—347.
Jacoby-Bender, Inc.: *See*—
Burkhardt, Norman C. 3,026,670.
Burkhardt, Norman C. 3,030,686.
Vollet, George. 3,017,682.
Jacoby, Charles H., to International Salt Co., Inc. Method of well completion. 3,064,957, 11–20–62, Cl. 262—3.
Jacoby, George V., to Minneapolis Honeywell Regulator Co. Measuring apparatus. 3,020,476, 2–6–62, Cl. 324—61.
Jacoby, Gerald B., to General Motors Corp. Master cylinder reservoir. 3,041,837, 7–3–62, Cl. 60—54.6.
Jacoby-Tarbox Corp.: *See*—
Tarbox, George S. 3,015,300.
Jacoff, Richard, to Great Neck Saw Manufacturers, Inc. Article holder. 3,047,139, 7–31–62, Cl. 206—56.
Jacokes, Benton D.: *See*—
Powers, Walter H., and Jacokes. 3,064,336.
Jacomaro, Frank. Mold for jacketing vase receptacles. 3,016,594, 1–16–62, Cl. 25—118.
Jacques, Francis G. Absorptive earth-drying apparatus. 3,051,973, 9–4–62, Cl. 15—99.
Jacquet, Jacques N., and G. A. E. Henry, to Societe Nouvelle d'Electronique. Direct comparison digital servosystem. 3,045,157, 7–17–62, Cl. 318—28.
Jacquinot, Pierre, and R. Chabbal, to Commissariat a L'Energie Atomique. Variable step interferometers. 3,045,535, 7–24–62, Cl. 88—14.
Jacuzzi Bros., Inc.: *See*—
Jacuzzi, Candido. 3,038,469.
Jacuzzi, Candido. 3,062,149.
Nash, Floyd M. 3,067,435.
Nash, Floyd M., and Jacuzzi. 3,019,462.
Jacuzzi, Candido, to Jacuzzi Bros., Inc. Discharge direction control for a hydro-massage unit. 3,038,469, 6–12–62, Cl. 128—66.
Jacuzzi, Candido, to Jacuzzi Bros., Inc. Impeller pump pressure system and pump unit assembly therefor. 3,062,149, 11–6–62, Cl. 103—5.
Jacuzzi, Joseph: *See*—
Nash, Floyd M., and Jacuzzi. 3,019,462.
Jaeckel, Georg: *See*—
Meurer, Siegfried, Jaeckel, Wiebicke, and Lachmann. 3,054,390.
Wiebicke, Klaus, Jaeckel, and Lachmann. 3,035,558.
Jaeger, Erich. Ergometer. 3,057,201, 10–9–62, Cl. 73—379.
Jaeger, Jacob J., E. E. Kirkham, and E. F. Nowak, to Pratt & Whitney Co., Inc. Numerical control positioning servosystem. 3,068,386, 12–11–62, Cl. 318—28.
Jaeger, Joseph F., and W. J. Giles, to Colgate-Palmolive Co. Handle assembly. 3,017,068, 1–16–62, Cl. 229—52.
Jaeger Machine Co., The: *See*—
Apel, John H., and Beeson. 3,015,257.
Apel, John H., and Beeson. 3,015,258.
Apel, John H., and Beeson. 3,015,259.
Apel, John H., and Beeson. 3,051,062.
Pelsue, Garvin. 3,015,260.

Jaeger, Ulric R.: *See*—
Neel, Robert M., Jaeger, and Isbell. 3,067,491.

Jaeger, Ulric R., to Olin Mathieson Chemical Corp. Fabrication of hollow articles. 3,066,389, 12–4–62, Cl. 29—157.3.

Jaeger, Wilbert J., to Carbonic Dispenser, Inc., of California. Ice cube making machine. 3,019,612, 2–6–62, Cl. 62—66.

Jaeger, Wilbert J., to Economy Engine Co. Ignition systems for internal combustion engines. 3,028,443, 4–3–62, Cl. 123—148.

Jaekel, Gerhard: *See*—
Bretschneider, Otto, Bender, and Jaekel. 3,017,263.

Jaeken, Jan: *See*—
De Ramaix, Maurice A., and Jaeken. 3,047,385.

Jaenichen, Robert: *See*—
Black, Maurice, and Jaenichen. 3,053,251.

Jaensch, Klaus H., to General Dynamics Corp. Automatic digital sorting system. 3,024,906, 3–13–62, Cl. 209—81.

Jaeschke, Harold R., to Waldorf Paper Products Co. Dispensing cartons. 3,058,619, 10–16–62, Cl. 221—305.

Jaeschke, Ralph L., to Eaton Mfg. Co. Methods for forming rigid composite structures. 3,016,580, 1–16–62, Cl. 18—59.

Jaeschke, Ralph L., to Eaton Mfg. Co. Electromagnetic couplings. 3,036,680, 5–29–62, Cl. 192—84.

Jaeschke, Ralph L., to Eaton Mfg. Co. Electromagnetic apparatus. 3,047,754, 7–31–62, Cl. 310—105.

Jaeschke, Ralph L., to Eaton Mfg. Co. Electromagnetic coupling with cooling means. 3,063,532, 11–13–62, Cl. 192—113.

Jaeschke, Ralph L., to Eaton Mfg. Co. Liquid cooled dynamoelectric machine. 3,069,576, 12–18–62, Cl. 310—54.

Jaeschke, Ralph L., and R. J. Derks, to Eaton Mfg. Co. Oil-cooled and -lubricated electric machine cooling system. 3,030,529, 4–17–62. Cl. 310—53.

Jaffe, David L., to Polarad Electronics Corp. Automatic survival device actuating system. 3,041,021, 6–26–62, Cl. 244—147.

Jaffe, David L., to Polarad Electronics Corp. Reflex klystron reactance tube circuits. 3,064,207, 11–13–62, Cl. 332—7.

Jaffe, David L., and A. Ross, to Polarad Electronics Corp. Spectrum tape recorder. 3,045,181, 7–17–62, Cl. 324—77.

Jaffe, David L., and A. H. Sonneschein, to Polarad Electronics Corp. Electromagnetic radiation monitor with frequency and azimuth indicator. 3,060,427, 10–23–62, Cl. 343—118.

Jaffe, Fritz, and H. Kaesmacher, to Spies, Hecker & Co. Process for hardening furan resins. 3,053,690, 9–11–62, Cl. 117—72.

Jaffe, Fritz, and H. Kaesmacher. Furfuryl alcohol resins. 3,055,844, 9–25–62, Cl. 260—2.

Jaffe, Gunter S., A. L. Rocklin, and J. L. Van Winkle, to Shell Oil Co. Polycyclic polyphenols. 3,047,503, 7–31–62, Cl. 252—52.

Jaffe, Gunter S., A. L. Rocklin, and J. L. Van Winkle, to Shell Oil Co. Polynuclear phenols. 3,053,803, 9–11–62, Cl. 260—45.95.

Jaffe, Richard M., to Hughes Aircraft Co. Frequency storage system. 3,059,187, 10–16–62, Cl. 328—16.

Jaffe, Sarah. Adjustable muscle building apparatus and manipulator. 3,058,742, 10–16–62, Cl. 272—58.

Jaffe, Sol S.: *See*—
Anderson, George M., and Jaffe. 3,058,046.

Jaffee, Robert I.: *See*—
Berger, Lewis W., Jaffee, and Williams. 3,038,798.

Jaffee, Robert I., to The Battelle Development Corp. Method of producing ribbed metal sandwich structures. 3,044,160, 7–17–62, Cl. 29—423.

Jagaard, Robert W.: *See*—
Marchant, Francis C. I., Batchelor, and Jagaard. 3,056,253.

Jagenberg-Werke Akt.-Ges.: *See*—
Ehlenbeck, Georg. 3,031,367.
Hornstein, Victor, Schneider, and Küsel. 3,064,915.
Lohrmann, Erich. 3,070,365.
Zerlin, Hans. 3,027,051.
Zerlin, Hans, and Wolber. 3,069,981.

Jager, Albert: *See*—
Peissker, Horst, and Jager. 3,069,453.

Jager, Eugen: *See*—
Dornier, Peter, Jager, and Wiedemer. 3,070,327.

Jaggi, Emanuel. Door handle assembly. 3,019,045, 1–30–62, Cl. 292—353.

Jagiel, Zigmund. Tube clamp. 3,022,561, 2–27–62, Cl. 24—284.

Jagiel, Zigmund J. Tube clamp. 3,061,903, 11–6–62, Cl. 24—268.

Jagielski, Francis A. Apparatus for making die castings. 3,056,178, 10–2–62, Cl. 22—70.

Jahan, Christian, and M. Tournier, to Esso Research and Engineering Co. Fuel and lubricating oil compositions. 3,067,138, 12–4–62, Cl. 252—54.

Jahelka, Josef: *See*—
Dubsky, Borivoj, Straka, Jahelka, and Sedlacek. 3,042,858.

Jahill Corp.: *See*—
Heggie, Henry W. 3,052,110.

Jahn, Alex K.: *See*—
Vanderhoff, John W., and Jahn. 3,058,929.

Jahn, Alex K., to The Dow Chemical Co. Flame-proof foamable alkenyl aromatic resin granules and method of making. 3,046,236, 7–24–62, Cl. 260—2.5.

Jahn, Alex K., and E. J. Gillard, to The Dow Chemical Co. Method of product control in aqueous suspension polymerizations of alkenyl aromatic compounds. 3,043,817, 7–10–62, Cl. 260—88.2.

Jahn, Carl M. Fixed-cam clamp bracket for concrete forms. 3,030,059, 4–17–62, Cl. 248—223.

Jahn, Dale M., to Sperry Rand Corp. Time-sharing computer. 3,021,067, 2–13–62, Cl. 235—164.

Jahn, Herbert: *See*—
Bauder, Josef, Steiner, Herrmann, and Jahn. 3,024,308.

Jahn, Robert E., to Camloc Fastener Corp. Toggle latch. 3,021,162, 2–13–62, Cl. 292—66.

Jahnig, Charles E., to Esso Research and Engineering Co. Control of flow of particulate solids. 3,066,017, 11–27–62, Cl. 23—288.

Jahresmühlen-Fabrik G.m.b.H., Aug. Schatz & Sohne: *See*—
Reich, Robert W. 3,040,225.

Jakel Mfg. Co.: *See*—
Jakel, Otto E. 3,070,409.

Jakel, Otto E., to Jakel Mfg. Co. Electrical motors. 3,070,409, 12–25–62, Cl. 308—122.

Jaklitsch, Richard F.: *See*—
Foster, Tom, Jaklitsch, Mayr, and Walker. 3,048,365.

Jakobs, Hans, to Novo Industrial Corp. Screen structure. 3,024,912, 3–13–62, Cl. 209—346.

Jakobsson, Kungspannaa S.: *See*—
Jakobsson, Stig V. 3,066,655.

Jakobsson, Per A. H., and K.-G. Ohrn, to International Ytong-Stabalite Co., Ltd. Method for dividing bodies of lightweight concrete or similar material. 3,065,514, 11–27–62, Cl. 25—153.

Jakobsson, Stig V., to K. S. Jakobsson. Double fired combined heating boiler. 3,066,655, 12–4–62, Cl. 122—156.

Jakobsson, Tage H. E. Shelf stacks. 3,042,220, 7–3–62, Cl. 211—148.

Jakoubovitch, Albert, to Societe de l'Electronique Francaise. High frequency current generator. 3,064,108, 11–13–62, Cl. 219—9.75.

Jakubs, Edward R.: *See*—
Vanden Boom, Robert F., and Jakubs. 3,064,457.

Jalbert, Domina C. Balloon fin jacket assembly. 3,064,926, 11–20–62, Cl. 244—31.

Jamal, Victor J. Apparatus for measuring tensile stresses in fishing lines. 3,026,725, 3–27–62, Cl. 73—144.

Jamal, Victor J., and H. S. Newhall, to Union Carbide Corp. Electrical current transfer device. 3,021,377, 2–13–62, Cl. 13—15.

Jamco, Inc.: *See*—
Melton, James O., and Wilkinson. 3,031,202.
Melton, James O., and Wilkinson. 3,055,688.

James, A. J.: *See*—
McMillan, John H., Jr., and Addicks. 3,015,373.

James, Arthur J.: *See*—
Cook, Percy A., James, and Taylor. 3,055,055.

James, Dennis B., and K. P. Kretsch, to Bell Telephone Laboratories, Inc. Four wire line concentrator circuit. 3,023,278, 2–27–62, Cl. 179—18.

James, Dennis B., and R. M. Wolfe, to Bell Telephone Laboratories, Inc. Communication system employing pulse code modulation. 3,056,085, 9–25–62, Cl. 325—38.

James, Donald A.: *See*—
Jacobitti, Edward, James, Morrison, and Newsom. D 025,257.

James, Donald R., to Citrus Equipment Corp. Citrus peel shaver. 3,070,140, 12–25–62, Cl. 146—3.

James, Donlin, to The Dayton Tire & Rubber Co. Tension control device. 3,057,578, 10–9–62, Cl. 242—156.2.

James, Edwin B., to The McKay Machine Co. Sorting and unloading apparatus for drawbenches and the like. 3,044,620, 7–17–62, Cl. 209—82.

James, George R., to Chemical Construction Corp. Oil quench process for partial oxidation of hydrocarbon gases. 3,022,148, 2–20–62, Cl. 48—215.

James, Glen S. Automatic protective device. Re. 25,215, 8–7–62, Cl. 198—232.

James, Howell N., and E. K. Karlsson, to International Harvester Co. Bearing mounting. 3,066,000, 11–27–62, Cl. 308—236.

James, Ivanhoe J. P.: *See*—
Watson, George R., Perkins, and James. 3,017,455.

James, Ivanhoe J. P., and G. C. Newton, to Electric & Musical Industries Ltd. Colour television cameras. 3,017,454, 1–16–62, Cl. 178—5.4.

James, Ivanhoe J. P., and D. G. Perkins, to Electric & Musical Industries Ltd. Colour television apparatus for conveying field sequential to simultaneous signals. 3,030,437, 4–17–62. Cl. 178—5.4.

James, Jimmie, to Rockwell-Standard Corp. Seat adjustment. 3,037,736, 6–5–62, Cl. 248—429.

James, John B., to International Computers and Tabulators Ltd. Data storage apparatus. 3,040,303, 6–19–62, Cl. 340—174.

James, Joseph S., Jr.: *See*—
Dean, Walter L., Dowell, and James. 3,034,910.

James, Kenneth E., to United Concrete Pipe Corp. Method of sizing bells and spigots of steel-cylinder concrete pipe. 3,017,695, 1–23–62. Cl. 29—523.

James, Ralph A.: *See*—
Seaborg, Glenn T., and James. 3,044,944.

James, Raymond W., and R. B. Parker, to Kalvar Corp. System of photographic reproduction. 3,032,414, 5–1–62, Cl. 96—91.
James, Richard P., and R. W. Nolan, to Beckman Instruments, Inc. Glass electrode. 3,070,540, 12–25–62, Cl. 204—195.
James, Robert L.: *See*—
Unger, Arnold, and James. 3,038,146.
James, Robert M.: *See*—
Howard, Charles M., James, and Schneider. 3,057,205.
James, Ruby M., Jr., to Bitterx Inc. Compositions and methods for treatment of bitterweed poisoning in livestock. 3,070,496, 12–25–62, Cl. 167—53.
James, Sven F. Apparatus for the shrinking or stretching of flexible sheet material. 3,044,143, 7–17–62, Cl. 26—18.6.
James, Thomas C.: *See*—
Teague, Claude E., Jr., James, and Mays. 3,060,172.
James, Thomas R.: *See*—
Melton, Donald F., and James. 3,033,059.
James, Varnell L. R., and R. E. Pearson, to Boeing Airplane Co. Reversible thrust jet engines and controls therefor. 3,050,937, 8–28–62 Cl. 60—35.54.
James, William E., and T. C. Riveer. Sausage casing stripping devices. 3,023,452, 3–6–62, Cl. 17—1.
James, William J., and H. E. Friend, 60% to W. J. James and 40% to M. M. Toich. Registering apparatus for fluid dispensers. 3,054,530, 9–18–62, Cl. 222—26.
James, William L., and W. C. Setterholm. Roughness gage. 3,027,759, 4–3–62, Cl. 73—105.
James, William R.: *See*—
Hohenberg, Paul M., James, and Wechsberg. 3,017,371.
Jamesbury Corp.: *See*—
Freeman, Howard G. 3,016,226.
Freeman, Howard G. 3,052,474.
Jameson, John E.: *See*—
Clapp, Robert J., and Jameson. 3,020,596.
Jameson, Keith, to Linotype and Machinery Ltd. Inking systems for printing machines. 3,057,294, 10–9–62, Cl. 101—365.
Jameson, Thomas M., Jr., and T. E. Coleman, Jr. Sub-drain breather. 3,038,396, 6–12–62, Cl. 94—33.
Jameson, William P., and R. M. Eisenberg, to ACF Industries, Inc. Method of preparing a simulated ground contour transparency. 3,066,424, 12–4–62, Cl. 35—10.4.
Jamieson, Helen D., to Associated Lead Manufacturers Ltd. Pigments. 3,046,150, 7–24–62, Cl. 106—296.
Jamieson, Helen D., to Associated Lead Manufacturers Ltd. Pigments. 3,053,685, 9–11–62, Cl. 106—299.
Jamieson, John W.: *See*—
Hawver, Roy, and Jamieson. 3,052,493.
Malavazos, Arthur J., and Jamieson. 3,022,948.
Jamieson, Philip D., and W. H. Despres. Beer barrel tapper. 3,035,603, 5–22–62, Cl. 137—323.
Jamieson, Robert S. Frequency modulation servomechanism system. 3,034,028, 5–8–62, Cl. 318—28.
Jamieson, Thomas A., to Draper Brothers Co. Composite laminated structures of high permeability. 3,059,312, 10–23–62, Cl. 28—79.
Jamison, Frederick W. Element for embeddment in a mastic slab. 3,069,522, 12–18–62, Cl. 219—19.
Jamison, Hunter D.: *See*—
Mark, Alexander H., and Jamison. 3,065,643.
Jamison, Richard H., Jr. Material handling apparatus. 3,044,640, 7–17–62, Cl. 214—83.36.
Jamison, Richard S., and H. A. Rosen, to Hughes Aircraft Co. Fail-safe microwave ferrite switch. 3,042,882, 7–3–62, Cl. 333—7.
Jamison, Robert C., Sr., and P. A. Muller, to American-Marietta Co. Printer for cans. 3,024,722, 3–13–62, Cl. 101—40.
Jamison, Will B. Method for drying finely divided materials. 3,056,212, 10–2–62, Cl. 34—10.
Jammet, Jean F., to Societe des Accumulateurs Fixes et de Traction (Societe Anonyme). Process for manufacturing primary dry cells. 3,040,117, 6–19–62, Cl. 136—175.
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Janakirama-Rao, Bhogaraju V., to International Resistance Co. Low thermal expansion glass. 3,031,318, 4–24–62, Cl. 106—52.
Jancy Engineering Co.: *See*—
Rowley, Benjamin W. 3,022,686.
Janda, Albert. Saw horse and table combination. 3,047,092, 7–31–62, Cl. 182—28.
Janda, Richard M., and J. D. Moyer, to Textile Machine Works. Method of knitting patterned fabric. 3,046,761, 7–31–62, Cl. 66—43.
Janda, Robert J., and C. W. Dahlin. Protective canopy for boats. 3,030,973, 4–24–64, Cl. 135—6.
Jandasek, Vladimir J., to Ford Motor Co. Transmission control. 3,068,974 12–18–62, Cl. 192—3.2.
Jandrasi, Frank J.: *See*—
Adams, Milton R., Peczkowski, and Jandrasi. 3,070,073.
Janes, Edmund D., to Scovill Mfg. Co. Button construction. 3,028,646, 4–10–62, Cl. 24—90.
Janes, George S.: *See*—
Fishman, Frank J., Janes, Kantrowitz, and Petschek. 3,035,206.
Janes, Milton, and S. A. Taylor, to Union Carbide Corp. Oxidation-resistant graphite article and method. 3,065,088, 11–20–62, Cl. 106—44.
Janes, Paul. Process and apparatus for the intimate mixing of streaming fluids and for the purification of air, particularly by means of separating substances contained in gas and liquids. 3,033,643, 5–8–62, Cl. 23—4.
Janeska, Henry. Spotting-scope. 3,031,913, 5–1–62, Cl. 88—2.4.
Janeway, Robert N. Bolster centering linkage. 3,038,416, 6–12–62, Cl. 105—193.
Janey, Paul L.: *See*—
Pianfetti, John A., and Janey. 3,020,303.
Jang, Roland: *See*—
Dobry, Reuven, Gutterwoth, and Jang. 3,062,723.
Janicke, Hermann. Free piston engine driven pump assembly. 3,031,972, 5–1–62, Cl. 103—54.
Janicke, Hermann. Free-piston engine. 3,043,282, 7–10–62, Cl. 123—46.
Janicke, Jack M., to Radio Frequency Laboratories, Inc. Magnet charger. 3,071,733, 12–25–62, Cl. 317—203.
Janik, Anton J., to The Ridge Tool Co. Flaring tool. 3,050,103, 8–21–62, Cl. 153—81.
Janke, Edward J., to Addressograph-Multigraph Corp. Printing machines. 3,046,877, 7–31–62, Cl. 101—76.
Janke, Gilbert J.: *See*—
Brauer, Edwin H., Jr., and Janke. 3,024,483.
Brauer, Edwin H., Jr., and Janke. 3,026,115.
Jankens, Austin L.: *See*—
Glueck, Marta G., and Jankens. 3,051,675.
Janko, Denes, to Chemolimpex Magyar Vegyiaru Kulkereskedelmi Vallalat. Process for the preparation of printing dyes from vat dyes and sulfur dyes, not suitable by themselves for printing purposes. 3,046,077, 7–24–62, Cl. 8—70.
Jankowiak, Erwin M., and A. R. Nelson, to The Dow Chemical Co. Process for polymerizing vinyl chloride in aqueous suspension. 3,042,665, 7–3–62, Cl. 260—92.8.
Jankowitz, Gerald, to Barnes Engineering Co. High resolution tracker. 3,061,730, 10–30–62, Cl. 250—203.
Jankowski, Conrad J.: *See*—
Martin, James G., Ernst, Jankowski, and Schetelich. 3,023,195.
Jankowski, Conrad J., and W. F. Fischer, to Esso Research and Engineering Co. Solid rubbery substances having improved tack. 3,023,179, 2–27–62, Cl. 260—25.
Jankowski, Conrad M., D. F. Hyde, M. S. Reynolds, and J. M. Thoburn, to Cenco Instruments Corp. Method and apparatus for automatic photometric color end point detection of titration processes. 3,026,182, 3–20–62, Cl. 23—230.
Jankowski, Frank P. Transfer and method of making the same. 3,031,324, 4–24–62, Cl. 117—3.1.
Jankowsky, Edward J., W. Beck, and F. S. Williams, to United States of America, Navy. Electrical crack measuring device for determining metal deterioration. 3,034,340, 5–15–62, Cl. 73—86.
Jannarelli, Albert E., and F. L. Howard, to Owens-Corning Fiberglas Corp. Glass fiber screening and method. 3,067,059, 12–4–62, Cl. 117—76.
Janner, Karl, to Siemens-Schuckertwerke Aktiengesellschaft. Neutron-flux gage for nuclear reactors. 3,050,624, 8–21–62, Cl. 250—83.1.
Janos, Alfred G., D. A. Solley, Jr., and K. A. Robbie, to General Electric Co. Automatic defrost two-temperature refrigerator. 3,034,313, 5–15–62, Cl. 62—155.
Janoski, Edward J., to Sun Oil Co. Aromatization process. 3,054,837, 9–18–62, Cl. 260—673.5.
Janoski, Edward J., to Sun Oil Co. Polymerization of olefins. 3,055,878, 9–25–62, Cl. 260—93.7.
Janota, Rudolph B., and R. T. Gavin, to Swift & Co. Insulation adhesive composition with acrylate polymer and alkali metal siloconate. 3,025,256, 3–13–62, Cl. 260—29.6.
Janovsky, Franz: *See*—
Tschirf, Ludwig, Gärtner, and Janovsky. 3,042,170.
Janowitz, Robert, to Clipper Mfg. Co. Method of forming road joints and machine for use therein. 3,057,274, 10–9–62, Cl. 94—45.
Janquart, Jerry C.: *See*—
Lund, James K., Bauerlein, and Janquart. 3,020,727.
Janquart, Jerry C., to The Dole Valve Co. Rotatable ice mold and control mechanism therefor. 3,024,618, 3–13–62, Cl. 62—135.
Janquart, Jerry C., to The Dole Valve Co. Anti-caking dispenser valve. 3,034,761, 5–15–62, Cl. 251—210.
Jansen, Bernhard. Load transfer switch with non-linear switching resistors. 3,039,041, 6–12–62, Cl. 323—43.5.
Jansen, Gerhart. Mixing valve. 3,043,337, 7–10–62, Cl. 137—625.41.
Jansen, Gerhart. Clamp nut apparatus. 3,049,368, 8–14–62, Cl. 287—20.3.
Jansen, Hermann, and L. Walther, to Zimmermann & Jansen Gesellschaft mit Beschrankter Haftung. Automatic change-over system for blast stoves for blast furnaces. 3,034,775. 5–15–62, Cl. 263—19.
Jansen, Hermann, and L. Walther, to Zimmermann & Jansen Gesellschaft mit beschrankter Haftung. Automatic heat requirement regulator for automatic change-over system for blast stoves for blast furnaces. 3,051,465, 8–28–62, Cl. 263—19.

Jansen, Jacob E., and H. J. Kehe, to The B. F. Goodrich Co. Deterioration retarders for rubber and compositions comprising the same. 3,022,269, 2–20–62, Cl. 260—45.95.

Jansen, Th. G.m.b.H.: *See*—
Schuller, Heri. 3,023,774.
Schuller, Heri. 3,047,024.

Janson, Bengt G., to Aktiebolaget Celleco. Method of assorting, dewatering or the like of fibrous material suspended in water. 3,024,911, 3–13–62, Cl. 209—268.

Janson, Leroy W., and S. B. Jones, to Sprague & Henwood, Inc. Free-fall drive-hammer assembly. 3,039,546, 6–19–62, Cl. 175—152.

Janson, Paul C., to Rockwell Mfg. Co. Tamperproof parking meter housing structure. 3,034,704, 5–15–62, Cl. 232—15.

Janssen, Hermann, to PGAC Development Co. Focused well logging systems. 3,068,401, 12–11–62, Cl. 324—1.

Janssen, Paul A. J., to Research Laboratorium Dr. C. Janssen, N.V. N'-substituted derivatives of N-(2-methoxyphenyl) piperazine. 3,030,367, 4–17–62, Cl. 260—268.

Janssen, Paul A. J., to Research Laboratorium Dr. C. Janssen N.V. 1 - (ω - aroylalkyl) - 4 - alkyl - 1,2,3,6 - tetrahydropyridines. 3,030,372, 4–17–62, Cl. 260—297.

Janssen, Paul A. J., to Dr. C. Janssen Research Laboratorium, N.V. 1-(aroylalkyl)-4-piperidinecarboxamides. 3,041,-344, 6–26–62, Cl. 260—294.

Janssen, Paul A. J., to Research Laboratorium Dr. C. Janssen, N.V. 1-aroylpropyl-4-pyridylpiperidin-4-ol. 3,069,425, 12–18–62, Cl. 260—294.7.

Janssen, Paul A. J., to Research Laboratorium Dr. C. Janssen N.V. 1-aroylpropyl-4-aryl-4-cyanopiperidines. 3,069,426, 12–18–62, Cl. 260—294.7.

Janssen, Peter J. H., and W. Smeulers, to North American Philips Co., Inc. Circuit arrangement for producing a control voltage. 3,020,480, 2–6–62, Cl. 328—26.

Janssen, Peter J. H., and A. J. Moggre, to North American Philips Co., Inc. Circuit arrangement for producing a current having a non-linear sawtooth waveform through a coil. 3,020,484, 2–6–62, Cl. 328—142.

Janssen, Peter J. H., and A. Boekhorst, to North American Philips Co., Inc. Television receiver. 3,024,307, 3–6–62, Cl. 178—7.5.

Janssen, Peter J. H., and C. P. A. G. Van de Vijver, to North American Philips Co., Inc. Trigger circuit. 3,056,-929, 10–2–62, Cl. 331—75.

Janssen, Peter J. H. W. Smeulers, and K. Elsele, to North American Philips Co., Inc. Circuit arrangement for use in television receivers. 3,061,674, 10–30–62, Cl. 178—69.5.

Janssen, Peter J. H., A. Boekhorst, and W. Smeulers, to North American Philips Co., Inc. Circuit arrangement to produce a sawtooth current in a coil and a direct voltage. 3,061,757, 10–30–62, Cl. 315—27.

Janssen, Peter J. H., and W. Smeulers, to North American Philips Co., Inc. Television receiver control circuit responsive to distorted signals. 3,066,183, 11–27–62, Cl. 178—7.3.

Janssen, Peter J. H., and C. P. A. van de Vijver, to North American Philips Co., Inc. Trigger circuit. 3,066,265, 11–27–62, Cl. 331—112.

Janssen, Peter J. H., and C. P. A. G. van de Vijver, to North American Philips Co., Inc. Transistor oscillator. 3,070,-758, 12–25–62, Cl. 331—111.

Janssen, Wilfried: *See*—
Mast, Fred, and Janssen. 3,016,417.

Janssen, William H.: *See*—
Le Pierre, Cramer W., Cochran, Janssen, Powell, and Samsel. 3,067,281.

Jansson, Leonard E., to North American Philips Co., Inc. Circuit arrangement employing transistors. 3,024,422, 3–6–62, Cl. 330—18.

Jansson, Nils, and T. Holm, to Allmanna Svenska Elektriska Aktiebolaget. Hydraulic means for stressing the springs of spring actuated electric switches. 3,064,093, 11–13–62, Cl. 200—82.

Jantzen, William L. Sail-float. 3,037,220, 6–5–62, Cl. 9—312

Janulionis, Anthony D., to National Lead Co. Ceramic dielectric compositions. 3,035,927, 5–22–62, Cl. 106—39.

Janus, Alexander G., to Consumer Merchandising Corp. Disposable container. 3,031,124, 4–24–62, Cl. 229—26.

Janus, Alexander G., to Consumers Merchandising Corp. Multiple match packet device. 3,038,595, 6–12–62, Cl. 206—29.

Janus, Alexander G., to Consumers Merchandising Corp. Removable closure for wrapped bread. 3,043,207, 7–10–62, Cl. 99—224.

Janus, Alexander G., to Idea Crafters Inc. Sheetboard coin bank. 3,062,436, 11–6–62, Cl. 232—5.

Janz, Alex J. Decorative lapel pocket handkerchief. 3,026,-532, 3–27–62, Cl. 2—279.

Japan Leather Mfg. Co., Ltd.: *See*—
Nishihara, Tomio. 3,034,852.

Japan Reichhold Chemicals, Inc.: *See*—
Ishizuka, Sojiro, and Sato. 3,058,159.

Japikse, Cornelis H.: *See*—
Going, Louis H., and Japikse. 3,021,220.

Japolsky, Nicholas S., to The British Oxygen Co. Ltd. Separation of gas mixtures. 3,059,110, 10–16–62, Cl. 250—41.9.

Japp, Albert L., to Gulf Oil Corp. Liquid dispensing apparatus. 3,057,518, 10–9–62, Cl. 222—69.

Jaquiery, Warren: *See*—
Kaplan, Yale, and Jaquiery. 3,059,548.

Jaquith, Douglas. Mouthpiece for a wind instrument. 3,057,243, 10–9–62, Cl. 84—383.

Jaquith, Douglas. Musical instrument support. 3,057,526, 10–9–62, Cl. 224—5.

Jaquith, Howard R., to Taylor Instrument Companies. Controller. 3,047,002, 7–31–62, Cl. 137—85.

Jaquith, Howard R., and J. P. Hurdle, to Taylor Instrument Companies. Control system. 3,025,868, 3–20–62, Cl. 137—83.

Jaquith, Howard R., and H. A. Klumb, to Taylor Instrument Companies. Compressor unloader. 3,030,928, 4–24–62, Cl. 121—38.

Jarabak, Joseph R. Differential forces edgewise bracket. 3,061,929, 11–6–62, Cl. 32—14.

Jarboe, Ralph R., Jr., to Cities Service Research and Development Co. Permeable well cement and method of providing permeable cement filters in wells. 3,044,547, 7–17–62, Cl. 166—12.

Jarboe William B. Manually usable drill guide. 3,064,504, 11–20–62, Cl. 77—62.

Jardine, George W. Combination holder and detachable sponge mop for handling cleaning fluids. 3,041,651, 7–3–62, Cl. 15—244.

Jaremus, Boubene M.: *See*—
Boehmer, Andrew P., and Jaremus. 3,063,251.
Harter, Donald G., Haley, Boehmer, and Jaremus. 3,041,-847.

Jarl Products, Inc.: *See*—
Fiske, Chester G. 3,052,048.

Jarmufellesztesi Intezet: *See*—
Szekely, László. 3,015,968.

Järnbirger Aktiebolag: *See*—
Andreasson, Per A. 3,060,983.

Järnhäll, Bertil, to Aktiebolaget Astra, Apotekarnes Kemiska Fabriker. Compressible container for liquids. 3,022,886, 4–17–62, Cl. 271—9.

Jaros, Murray M.: *See*—
Aubrey, William C. 3,063,403.

Jaros, Stanley F. Reducer pipe joint. 3,056,616, 10–2–62, Cl. 285—332.1.

Jarowenko, Wadym: *See*—
Rittenhouse, Norton W., Jarowenko, and Ross. 3,038,895.

Jarowski, Charles I.: *See*—
Hammer, Henry F., Jarowski, and Pilgrim. 3,036,120.

Jarrell-Ash Co.: *See*—
Brehm, Richard K. 3,016,787.

Jarrell, Martin E., to United States of America, Navy. Floating elevon shear pin linkage for folding split elevons. 3,063,660, 11–13–62, Cl. 244—49.

Jarrell, Virgil N. Vine feeder. 3,037,668, 6–5–62, Cl. 222—56.

Jarrell, Virgil N. Vine feeding machine. 3,048,259, 8–7–62, Cl. 198—160.

Jarret, Jacques: *See*—
Jarret, Jean and Jacques. 3,062,979.

Jarret, Jean, and Jacques. Variable-reluctance electric machines. 3,062,979, 11–6–62, Cl. 310—168.

Jarrett, Arthur W.: *See*—
Feits, Gordon P. 3,019,547.

Jarrett, George A.: *See*—
Carter, Victor J. 3,062,512.

Jarrett, George R. Ventilating attachment for water closets. 3,059,244, 10–23–62, Cl. 4—213.

Jarrett-Kerr Industries Electric & Musical Industries Ltd. Borehole survey apparatus. 3,065,405, 11–20–62, Cl. 324—1.

Jarrett, Noel: *See*—
Hess, Paul D., Brondyke, and Jarrett. 3,039,864.

Jarrett, William J., to United States of America, Army. Shaped-charge cartridge. 3,065,695, 11–27–62, Cl. 102—38.

Jarund, Harry S. V., to Hermorion Ltd. Laminate sheet material and package produced therefrom. 3,032,251, 5–1–62, Cl. 229—22.

Jaruzelski, John J., to United States Steel Corp. Ethers and esters of 2-methylnaphthalene as resin plasticizers. 3,048,-600, 8–7–62, Cl. 260—348.

Jarvie, John M. S., M. J. Schuler, and J. D. Sterling, Jr., to E. I. du Pont de Nemours and Co. Process for making dialkyl lead. 3,048,610, 8–7–62, Cl. 260—437.

Jarvis Corp.: *See*—
Townshend, Henry H., Jr. 3,040,711.

Jarvis, Edward C. Dental bite correlator. 3,066,414, 12–4–62, Cl. 32—19.

Jarvis, Ivor M., to Heenan & Froude Ltd. Hydro-kinetic brakes and couplings. 3,029,902, 4–17–62, Cl. 188—90.

Jascalevich, Mario E. Device for draining wounds. 3,042,-041, 7–3–62, Cl. 128—276.

Jaseph, Lawrence F.: *See*—
Arbogast, Duane J., and Jaseph. 3,020,892.

Jaseph, Lawrence F., to Dover Corp. Constant flow valve. 3,020,891, 2–13–62, Cl. 121—46.4.

Jaseph, Lawrence F., to Dover Corp. Vehicle lift safety device. 3,056,468, 10–2–62, Cl. 187—8.49.

Jasinowski, Walter J.: *See*—
Chase, Corson W., Jasinowski, and Pedersen. 3,062,466.
Chase, Corson W., Jasinowski, and Pedersen. 3,062,467.

Jasinski, Victor: *See*—
Goldberg, Albert I., Loebel, and Jasinski. 3,030,326.

Jasionowski, Joseph J., to General Electric Co. Plug-in speed unit. 3,016,444, 1–9–62, Cl. 219—37.

Jaskowiak, Frank T., to A. O. Smith Corp. Method and apparatus for establishing high fluid pressure. 3,066,556, 12–4–62, Cl. 78—61.

Jasmin, Rolla M., Jr. Belt attached seat pad. 3,062,580, 11–6–62, Cl. 297—4.

Jasniewski, Joseph M.: *See*—
Richardson, Charles D., and Jasniewski. 3,050,787.

Jason, Emil F.: *See*—
Oita, Katashi, and Jason. 3,052,649.

Jason, Emil F., and E. K. Fields, to Standard Oil Co. Oxidation of cyclic olefins. 3,042,722, 7–3–62, Cl. 260—586.

Jason, Emil F., and E. K. Fields, to Standard Oil Co. Production of chlorocyclohexanecarboxylic acid. 3,052,716, 9–4–62, Cl. 260—514.

Jason, Emil F., and E. K. Fields, to Standard Oil Co. Oxidation of hydrocarbon synthesis liquids. 3,054,814, 9–18–62, Cl. 260—413.

Jasper, Benjamin E.: *See*—
Busch, Thomas N. 3,033,397.
Busch, Thomas N., and D. W. and B. E. Jasper. 3,059,677.

Jasper, David W.: *See*—
Busch, Thomas N. 3,033,397.
Busch, Thomas N., and D. W. and B. E. Jasper. 3,059,677.

Jasper, Harry R.: *See*—
Tokos, George M., and Jasper. 3,064,403.

Jasperson, William R., to United States Steel Corp. Control for strip processing line. 3,061,534, 10–30–62, Cl. 204—211.

Jaspert, William B.: *See*—
Sloan, Theodore H. 3,021,648.
Sloan, Theodore H. 3,040,483.
Sloan, Theodore H. 3,045,399.
Sloan, Theodore H. 3,047,989.
Sloan, Theodore H. 3,057,123.

Jass, Herman E.: *See*—
Frangos, John, Jass, and Scott. 3,069,098.

Jasse, Joseph R., to Hotchkiss-Brandt. Fin arrangement for projectiles. 3,031,967, 5–1–62, Cl. 102—50.

Jassniker, Kurt, to Sulzer Freres, S.A. Turbocompressor having a radial diffuser. 3,032,259, 5–1–62, Cl. 230—114.

Jastram, Edward P., Jr.: *See*—
Broadley, William A., and Jastram. 3,023,350.

Jaszka, Daniel J., and R. W. Marek, to Olin Mathieson Chemical Corp. Coated calcium hypochlorite and process for making same. 3,036,013, 5–22–62, Cl. 252—99.

Jauch, Christian M. J.: *See*—
Goodhouse, Carl J., and Jauch. 3,025,365.

Jauch, Robert J.: *See*—
Schulze, Robert E., Jauch, and Kruckeberg. 3,036,525.
Schulze, Robert E., Jauch, and Kruckeberg. 3,053,268.

Jaume, René. Pleated-wall tubular filter and method of manufacturing same. 3,053,395, 9–11–62, Cl. 210—493.

Jaun, Hermann, to Elektro-Motoren A.G. Strip punching and winding machine. 3,019,998, 2–6–62, Cl. 242—56.8.

Jaun, Hermann, and O. Welter, to Elektro-Motoren, A.G. Structural member for conducting a magnetic flux. 3,035,195, 5–15–62, Cl. 310—214.

Jauquet, Juan. Sound reproducer apparatuses. 3,030,114, 2–27–62, Cl. 206—56.

Javes, John G.: *See*—
Schnable, George L., and Javes. 3,017,332.
Schnable, George L., and Javes. 3,034,970.

Javor, George. Liquid level gauge. 3,062,049, 11–6–62, Cl. 73—323.

Jaworowicz, John H., to General Motors Corp. Unbalance simulator. 3,034,330, 5–15–62, Cl. 73—1.

Jaworski, Leonard S., to Prestole Corp. Spring cage nut with deformable hooks. 3,035,624, 5–22–62, Cl. 151—41.75.

Jaworski, Leonard S., to The Bishon and Babcock Corp. Sheet metal screw fastener. 3,068,540, 12–18–62, Cl. 24—73.

Jay, David J., and H. W. Peithman, to Ford Motor Co. High speed transportation vehicle. 3,055,312, 9–25–62, Cl. 104—134.

Jay Kay Metal Specialties Corp.: *See*—
Hart, Frank J. 3,031,751.

Jay, Ruth A.: *See*—
Frosh, Earl A. 3,044,606.

Jay, Willard B. Core box for sand cores. 3,066,363, 12–4–62, Cl. 22—10.

Jaye, Richard C., and J. F. Hirtz, to Syncromatic Corp. Hot air furnace. 3,064,639, 11–20–62, Cl. 126—116.

Jaymar-Ruby, Inc.: *See*—
Ruby, Burton B. 3,027,566.

Jayne, John P. Methods and composition for producing a phosphate coating on zinc metal. 3,015,593, 1–2–62, Cl. 148—6.15.

Jean, Lucien: *See*—
Boucher, Louis. 3,053,141.

Jean-Ruth Products, Inc.: *See*—
Wyner, Gerald E., and Lee. 3,054,184.

Jeanes, Allene R., and J. H. Slonecker, to United States of America, Agriculture. Atypically salt-responsive alkali-deacetylated polysaccharide produced by xanthomonas campestris. 3,054,689, 9–18–62, Cl. 106—208.

Jeavons, Philip S.: *See*—
Chanaryn, Victor, Jeavons, and Pickard. 3,058,766.

Jeavons, Philip S., to Wilmot-Breeden Ltd. Releasable fastening devices. 3,042,436, 7–3–62, Cl. 292—221.

Jeavons, Philip S., to Wilmot-Breeden Ltd. Fastening devices. 3,066,965, 12–4–62, Cl. 292—224.

Jech, Robert W., and E. P. Weber, to United States of America, Navy. Titanium base alloys. 3,052,538, 9–4–62, Cl. 75—175.5.

Jeddeloh, Otto G. Apparatus for edge spacing structurally stable sheets. 3,050,175, 8–21–62, Cl. 198—34.

Jeddeloh, Otto G. Blank dispenser. 3,057,326, 10–9–62, Cl. 118—236.

Jedlicka, Helmut. Securing threaded connections. 3,022,197, 2–20–62, Cl. 117—132.

Jee, Albert R., to Geo. S. Harwood & Son, Inc. Apparatus for disintegrating a dense mass of fibers. 3,040,387, 6–26–62, Cl. 19—81.

Jeeves, Arthur G., to Vickers-Armstrongs (Engineers) Ltd. Drawer handle and latch. 3,031,284, 4–24–62, Cl. 312—320.

Jeeves, Terry A.: *See*—
Kaufman, William M., and Jeeves. 3,052,801.

Jeffers, Edward C. Accurate journal lubricators. 3,048,455, 8–7–62, Cl. 308—88.

Jefferson, Archie C. Celestial navigation instrument. 3,066,415, 12–4–62, Cl. 33—1.

Jefferson Chemical Co., Inc.: *See*—
Anslow, James R. 3,019,225.
Anslow, James R. 3,046,277.
Bentley, Floyd E. 3,053,862.
Brader, Walter H., Jr. 3,056,788.
Cooper, Justin F. 3,068,230.
Godfrey, Norman B. 3,037,025.
Godfrey, Norman B. 3,038,904.
Godfrey, Norman B. 3,055,173.
Godfrey, Norman B. 3,064,001.
Laemmle, George J. 3,037,042.
Lichtenwalter, Myrl. 3,023,211.
Lichtenwalter, Myrl. 3,055,809.
Malkemus, John D. 3,036,880.
Milligan, John G. 3,038,856.
Milligan, John G. 3,046,311.
Moore, Howard V., Edwards, and Lichtenwalter. 3,046,149.
Moss, Philip H. 3,020,290.
Moss, Philip H. 3,068,232.
Moss, Philip H. 3,068,233.
Moss, Philip H., and Godfrey. 3,037,023.
Peppel, William J., and Watkins. 3,019,231.
Speranza, George P. 3,020,262.
Speranza, George P., and Lichtenwalter. 3,055,901.

Jefferson, Donald M., to Clipper Propeller, Inc. Screw propellers. 3,044,556, 7–17–62, Cl. 170—159.

Jefferson Electric Co.: *See*—
Budovec, Joseph E., and Connolly. 3,059,283.
Elliott, Andrew B., Jr. 3,054,930.
Mauerer, Leopold. 3,029,363.
Rudolph, Robert W. 3,021,087.

Jefferson, Glen V., to Westinghouse Air Brake Co. Railway slack control system. 3,015,724, 1–2–62, Cl. 246—182.

Jefferson, Harold, to Communications Patents Ltd. Broadcasting systems. 3,034,707, 5–15–62, Cl. 235—52.

Jefferson, Robert T., Jr.: *See*—
Heckel, Hermann C. N., and Jefferson. 3,015,686.
Heckel, Hermann C. N., and Jefferson. 3,018,321.
Heckel, Hermann C. N., and Jefferson. 3,033,917.
Heckel, Hermann C. N., and Jefferson. 3,035,115.
Heckel, Herman C. N., and Jefferson. 3,063,906.

Jefferson Standard Broadcasting Co.: *See*—
Bateman, Frank F. 3,066,193.

Jefferys, Alexander G., to The Firestone Tire & Rubber Co. Apparatus for expanding one end of a cylindrical air spring into flared form. 3,018,518, 1–30–62, Cl. 18—19.

Jeffords, Joseph, deceased, by D. N. Sharretts, executor. Apparatus for recording race track bets. 3,038,653, 6–12–62, Cl. 234—53.

Jeffree, John H., to CAPS Ltd. Optical justifying means 3,051,015, 8–28–62, Cl. 88—57.

Jeffres, George E. Stump removal apparatus. 3,028,691, 4–10–62, Cl. 37—2.

Jeffrey, Clarence L. Bucket construction. 3,056,219, 10–2–62, Cl. 37—118.

Jeffrey Galion Mfg. Co., The: *See*—
Harrington, Carl M. 3,032,616.
Holt, Arthur D. 3,045,810.
Kilbourne, James. 3,049,221.
Kindig, Arnie J. 3,031,895.
Roberts, James H. 3,051,063.
Roberts, James H. 3,060,818.

Jeffrey Mfg. Co., The: *See*—
Benedict, Robert G. Jeanes, Wickerham, and Rogovin. 3,021,323.
Knight, Lloyd K. 3,022,018.
Lowry, John A. 3,021,957.
Steinmetz, Walter C. 3,018,972.

Jeffrey, Max L. Snap switch. 3,068,332, 12–11–62, Cl. 200—70.

Jeffrey, Nellie E. Bathing suit. 3,036,574, 5–29–62, Cl. 128—454.

Jeffrey, Richard C.: *See*—
Cypser, Rudolph J., Harrington, Hopkins, Housman, Jeffrey, and Ross. 3,056,110.
Housman, Bennett, Jeffrey, Mayer, and Thompson. 3,045,217.

Jeffrey, William B.: *See*—
Wilson, Richard L., and Jeffrey. 3,018,138.

Jeffrey, William B., to Westinghouse Air Brake Co. Adjustable cam device. 3,063,306, 11–13–62, Cl. 74—568.

Jeffery, Winstone E. P., and W. R. Stephens, to Birmingham Belting Co. Ltd. Hammers with replaceable striking face. 3,019,827, 2–6–62, Cl. 145—36.

Jeffreys, George A. Process for making yeast leavened baked products. 3,066,029, 11–27–62, Cl. 99—90.

Jeffreys, Roy A., and B. E. Tabor, to Eastman Kodak Co. Hardening of gelatin. 3,034,894, 5–15–62. Cl. 96—99.

Jeffreys, Roy A., and B. E. Tabor, to Eastman Kodak Co. Hardening of gelatin with oxystarch. 3,057,723, 10–9–62. Cl. 96—99.

Jeffreys, Roy A., B. E. Thabor, and D. M. Burness, to Eastman Kodak Co. Hardening of gelatin with oxy plant gums. 3,062,652, 11–6–62, Cl. 96—99.

Jeffs, Floyd D., and L. L. Snow. Sling for lifting cylindrical articles. 3,042,441, 7–3–62, Cl. 294—74.

Jeger, Oskar: *See*—
Wettstein, Albert, Vischer, Urech, and Jeger. 3,055,806.

Jeger, Oskar, to Ciba Pharmaceutical Products Inc. 18-amino progesterones and their manufacture. 3,033,871, 5–8–62, Cl. 260—397.3.

Jeger, Oskar, and D. Arigoni, to Ciba Pharmaceutical Products Inc. Process for the manufacture of oxido-steroids. 3,034,859, 5–8–62, Cl. 260—239.55.

Jeger, Oskar, D. Arigoni, C. Meystre, and A. Wettstein, to Ciba Corp. 18-oxygenated steroids and process for their manufacture. 3,040,040, 6–19–62, Cl. 260—239.57.

Jeglum, Claire H.: *See*—
Sams, Robert H., and Jeglum. 3,034,909.

Jehmlich, Gerhard, and G. Seifert, to Kamera- und Kinowerk Dresden, VEB. Depth of focus indicator. 3,058,-408, 10–16–62, Cl. 95—64.

Jehmlich, Gert: *See*—
Bohm, Siegfried, Hainy, Jurenz, and Jehmlich. 3,034,-412.

Jekat, Walter K., to Worthington Corp. Rotary machine. 3,034,701, 5–15–62, Cl. 230—116.

Jelatis, John G.: *See*—
De Claris, Nicholas, Jelatis, and Silverstein. 3,031,076.

Jelenko, J. F., & Co., Inc.: *See*—
Windish, August W. 3,059,336.

Jelinek, Charles, Jr.: *See*—
Worthen, George B., and Jelinek. 3,048,702.

Jellinek, Maurice H., to Union Carbide Corp. Process for rendering structural materials water repellent. 3,048,499, 8–7–62, Cl. 117—123.

Jen, Yun: *See*—
Segro, Nicholas R., and Jen. 3,044,973.

Jen, Yun, and R. R. House, to American Cyanamid Co. Paper sized with linear cationic polymer. 3,015,605, 1–2–62, Cl. 162—168.

Jenaer Glaswerk Schott & Gen.: *See*—
Fraunhofer, Georg, and Schlafer. 3,024,625.
Geffcken. Walter. 3,068,108.
Weber, Hans. 3,020,215.

Jencks, Charles L., to General Electric Co. Circuit breaker. 3,046,371, 7–24–62, Cl. 200—88.

Jencks, Charles L., to General Electric Co. Movable switch member. 3,061,702, 10–30–62, Cl. 200—146.

Jencks, Charles L., and F. H. Murphy, to General Electric Co. Electric circuit breaker. 3,053,954, 9–11–62, Cl. 200—106.

Jencks, Hollis W., to Detroit Coil Co. Solenoid. 3,017,547, 1–16–62 Cl. 317—191.

Jendrek, Robert S.: *See*—
Tremer, Thomas E. 3,065,506.

Jendrisak, Joseph E., to Shatterproof Glass Corp. Machine for cutting glass panes. 3,026,617, 3–27–62. Cl. 33—27.

Jenkin, William C., to The Commonwealth Engineering Co. of Ohio. Method of encapsulation of lithium borohydride. 3,070,469, 12–25–62, Cl. 149—5.

Jenkins Bros.: *See*—
Shuk, John J., and Wilson. 3,055,391.

Jenkins, Cecil: *See*—
Woolslayer, Homer J., Jenkins, Iddings, and Lynch. 3,058,311.
Woolslayer, Joseph R., and Jenkins. 3,026,970.
Woolslayer, Joseph R., and Jenkins. 3,042,377.

Jenkins, David M., and W. M. De Crease, to Lord Mfg. Co. Coating and adhesive composition, method and product. 3,022,196, 2–20–62, Cl. 117—127.

Jenkins, George F., and R. Smulka, to Minneapolis-Honeywell Regulator Co. Spring return load control device. 3,028,-726, 4–10–62, Cl. 60—7.

Jenkins, George H., III: *See*—
Cone, Irwin C., and Jenkins. 3,022,039.

Jenkins, Glenn W.: *See*—
Forth, Murray W., Roll, and Jenkins. 3,052,192.

Jenkins, Gordon L., and E. V. Kring, to E. I. du Pont de Nemours and Co. Peroxymonosulfate-diethylenetriamine pentaacetic acid composition. 3,049,495, 8–14–62, Cl. 252—102.

Jenkins, Harold W.: *See*—
Tuplin, William A., Gwinnett, and Jenkins. 3,066,917.

Jenkins, Herbert A. H., and D. B. Freeman, to Parker Rust Proof Co. Solutions and methods for forming protective coatings on titanium. 3,041,215, 6–26–62, Cl. 148—6.14.

Jenkins, James H.: *See*—
Crockford, Jack A., Hayes, Jenkins, and Feurt. Re 25,279.
Crockford, Jack A., Hayes, Jenkins, and Feurt. 3,022,-785.

Jenkins, James H. Snake repellent. 3,069,314, 12–18–62, Cl. 167—46.

Jenkins, John P.: *See*—
Bailey, Fred L., Jenkins, and Nolte. 3,059,063.

Jenkins, Lloyd T., to Monsanto Chemical Co. Organo tin polymerization catalyst for acrylonitrile. 3,068,212, 12–11–62, Cl. 260—85.5.

Jenkins, Mark H. Water saving attachment for flush boxes. 3,036,313. 5–29–62, Cl. 4—57.

Jenkins, Mark H. Target throwing device. 3,053,244, 9–11–62, Cl. 124—17.

Jenkins, Martyn F.: *See*—
Bennett, William D., and Jenkins. 3,063,488.

Jenkins, Richard L., to General Motors Corp. Transistorized receiver for door operator. 3,050,661, 8–21–62, Cl. 317—147.

Jenkins, Robert B.: *See*—
Broderson, Dean E., Jenkins, and Moore. 3,066,756.

Jenkins, Robert B. Medicine holder. 3,032,186, 5–1–62, Cl. 206—72.

Jenkins, Robert H., to Radio Corp. of America. Peak time detecting circuit. 3,048,717, 8–7–62, Cl. 307—88.5.

Jenkins, Rodman: *See*—
Koch, Robert L., Ramey, and Jenkins. 3,036,632.

Jenkins, Russell L., to Monsanto Chemical Co. Laminar titanium trioxide. 3,018,186, 1–23–62, Cl. 106—253.

Jenkins, William A., and J. H. Kennedy, to E. I. du Pont de Nemours and Co. Process for the preparation of UF$_5$. 3,034,855, 5–15–62 Cl. 23—14.5.

Jenkins, Wilmer A., II, and H. W. Jacobson, to E. I. du Pont de Nemours and Co. Production of refractory metals. 3,020,148, 2–6–62, Cl. 75—26.

Jenkner, Herbert, to Kali-Chemie Aktiengesellschaft. Preparation of boron alkyls. 3,035,083, 5–15–62, Cl. 260—462.

Jenkner, Herbert, to Kali-Chemie Aktiengesellschaft. Preparation of boron alkyls. 3,042,723, 7–3–62, Cl. 260—606.5.

Jenkner, Herbert, to Kali-Chemie Aktiengesellschaft. Preparation of hydrides of the fourth and fifth group elements. 3,043,857, 7–10–62 ,Cl. 260—429.7.

Jenkner, Herbert, to Kali-Chemie Aktiengesellschaft. Preparation of boron-hydrogen compounds. 3,047,358, 7–31–62, Cl. 23—14.

Jenkner, Herbert, to Kali-Chemie A.G. Preparation of aminoborines. 3,051,754. 8–28–62 Cl. 260—583.

Jenkner, Herbert, to Kali-Chemie A.G. Process for producing metal organic compounds. 3,061,647, 10–30–62, Cl. 260—606.5.

Jenkner, Herbert, to Kali-Chemie Aktiengesellschaft. New polymeric compounds of organosilicoacetylides and procedure for their production. 3,064,028, 11–13–62, Cl. 260—448.2.

Jenkner, Herbert, to Kali-Chemie Aktiengesellschaft. Preparation of organoboron compounds. 3,064,054, 11–13–62, Cl. 260—606.5.

Jenkner, Herbert, and H. W. Schmidt, to Kali-Chemie Aktiengesellschaft. Preparation of organotin compounds. 3,027,-393, 3–27–62, Cl. 260—429.7.

Jenn Air Products Co., Inc.: *See*—
Field, Thomas R. 3,064,548.
Jenn, Louis J., and Morrison. 3,016,003.
Jenn, Louis J., and Payton. 3,045,579.

Jenn, Louis J., and W. E. Morrison, to Jenn Air Products Co., Inc. Offset belted roof ventilator. 3,016,003, 1–9–62, Cl. 98—43.

Jenn, Louis J., and J. A. Payton, to Jenn Air Products Co., Inc. Vertical discharge roof exhauster. 3,045,579, 7–24–62, Cl. 98—43.

Jenne, Clarence A.: *See*—
Jenne, Frank A. and C. A. 3,068,811.

Jenne, Frank A., and C. A. Safety device for refrigerators. 3,068,811. 12–18–62, Cl. 109—63.5.

Jenne, Kenneth C., to Malleable Iron Fittings Co. Hinged pole connector. Re. 25,270, 10–23–62, Cl. 20—92.

Jennekens, Hubertus F.: *See*—
Fontein, Preerk J., Dreissen, and Jennekens. 3,037,629.

Jennen, Rene G., to O. W. Burks, Jr. Elastomeric composition containing a cyanoalkylamine. 3,038,868, 6–12–62, Cl. 260—4.

Jennens, Arthur E. ½ to F. C. Walters. Game apparatus. 3,065,969, 11–27–62, Cl. 273—131.

Jenner, Edward L.: *See*—
Coffman, Donald D., and Jenner. 3,017,435.

Jenner, Edward L., to E. I. du Pont de Nemours and Co. Preparation of organic dihalides. 3,022,358, 2–20–62, Cl. 260—654.

Jenney, David S.: *See*—
Lee, John G., and Jenney. 3,032,120.

Jenney, Robert W., and E. I. Fisher, to Bostitch, Inc. Fastener-applying machine. 3,067,724, 12–11–62, Cl. 121—21.

Jenney, Theodore M.: *See*—
Darbee, Leonard R., Kreuz, and Jenney. 3,062,622.

Jennings, Albert L., to Economy Forms Corp. Form cleaning apparatus. 3,035,539, 5–22–62, Cl. 118—2.

Jennings, Andrew B., to E. I. du Pont de Nemours and Co. Photopolymerizable compositions and elements. 3,036,914, 5–29–62, Cl. 96—84.

Jennings, Andrew B., to E. I. du Pont de Nemours and Co. Photographic emulsions and elements containing dextran. 3,063,838, 11–13–62, Cl. 96—67.

Jennings, Charles E., Jr., to The Miller Spreader Corp. Curb forming machine. 3,053,156, 9–11–62, Cl. 94—46.

Jennings, Charles H.: *See*—
Mort, David, and Jennings. 3,030,508.
Jennings, Clifford R.: *See*—
Gustafson, Henry A. 3,023,939.
Jennings, Earl R., to Pan American Petroleum Corp. Method and apparatus for lining wells. 3,028,915, 4–10–62, Cl. 166—46.
Jennings, Edward C., and M. F. Smith, to Fibreboard Paper Products Corp. Coating composition of polyvinyl acetate, Werner complex, and quaternary ammonium compound, and paper coated therewith. 3,032,523, 5–1–62, Cl. 260—29.6.
Jennings, Edwin J., Jr.: *See*—
Reddick, John A., Berkley, and Jennings. 3,039,293.
Jennings, Frank S., Jr. Helicopter control system. 3,045,-950, 7–24–62, Cl. 244—17.11.
Jennings, Gresham N., to General Electric Co. Washing machine with storage and dispensing system for granular treating agents. 3,066,520, 12–4–62, Cl. 68—17.
Jennings, Harry C., to Everest & Jennings, Inc. Self-propelled wheel chair. 3,064,744, 11–20–62, Cl. 180—6.5.
Jennings, Irving C. Vacuum pumps. 3,032,258, 5–1–62, Cl. 230—79.
Jennings, Irving C. Vacuum heating pump assembly. 3,054,-246, 9–18–62, Cl. 183—2.5.
Jennings, Jo E., to Jennings Radio Mfg. Corp. Vacuum switch. 3,017,479, 1–16–62, Cl. 200—144.
Jennings, Jo E., to Jennings Radio Mfg. Corp. Vacuumized electric switch. 3,021,407, 2–13–62, Cl. 200—144.
Jennings, Jo E., to Jennings Radio Mfg. Corp. Coaxial switch. 3,021,408, 2–13–62. Cl. 200—144.
Jennings, Jo E., to Jennings Radio Mfg. Corp. Relay. 3,023,-290, 2–27–62, Cl. 200—144.
Jennings, Jo E., to Jennings Radio Mfg. Corp. Vacuumized electric switch. 3,026,394, 3–20–62, Cl. 200—144.
Jennings, John R., to Optics Technology, Inc. Speed indicating device. 3,064,129, 11–13–62, Cl. 250—83.3.
Jennings, Joseph F.: *See*—
Binning, Robert C., Jennings, and Martin. 3,035,060.
Martin, Eugene C., and Jennings. 3,066,121.
Sechrist, Clifton N., Jennings, and Kelly. 3,042,730.
Jennings, Joseph F., and W. H. Clingman, Jr., to Standard Oil Co. Separation process. 3,062,905, 11–6–62, Cl. 260—674.
Jennings, Marvin D.: *See*—
Shader, Benjamin A., and Jennings. 3,049,180.
Jennings, Marvin D., to International Harvester Co. Spring trip for plows. 3,022,835, 2–27–62, Cl. 172—269.
Jennings, Marvin D., to International Harvester Co. Hill drop planting apparatus. 3,043,251, 7–10–62, Cl. 113—15.
Jennings, Marvin D., and J. R. Timberlake, to International Harvester Co. Sheet metal cotton picker bar and spindle assembly. 3,031,831, 5–1–62, Cl. 56—44.
Jennings, Marvin D., and R. P. Amato, to International Harvester Co. Cutter for seed tape planter. 3,059,437, 10–23–62, Cl. 77—72.6.
Jennings, Marvin D., and B. A. Shader, to International Harvester Co. Planter seed wheel. 3,065,879, 11–27–62, Cl. 221—233.
Jennings Radio Mfg. Corp.: *See*—
Hawkins, Jack S. 3,042,774.
Jennings, Jo E. 3,017,479.
Jennings, Jo E. 3,021,407.
Jennings, Jo E. 3,021,408.
Jennings, Jo E. 3,023,290.
Jennings, Jo E. 3,026,394.
Lindsay, Wesley N. 3,035,139.
Neibaur, Roderick W. 3,040,220.
Ross, Hugh C. 3,042,766.
Jennings, William A., to Economy Forms Corp. Grade strip support. 3,021,582, 2–20–62, Cl. 24—81.
Jennings, William A., to Economy Forms Corp. Adjustable brace connector unit. 3,030,061, 4–17–62, Cl. 248—354.
Jennings, William G.: *See*—
Bystricky, Joseph C., Jennings, and Luna. 3,035,661.
Dinkelkamp, Henry T., and Jennings. 3,031,032.
Jenny, William P., and T. A. Rabson; said Rabson assor. to said Jenny. Method and apparatus for making high resolution function earth's magnetic field maps. 3,023,359, 2–27–62. Cl. 324—4.
Jenoff Inc.: *See*—
Hoff, Jean C. 3,019,310.
Jens Villadsen's Fabrikker, A/S: *See*—
Skogseid, Anders. 3,051,543.
Jens, Wayne H., to United Nuclear Corp. Reactor fuel element. 3,041,262, 6–26–62, Cl. 204—193.2.
Jense, Willem F.: *See*—
De Roos, Huib, and Jense. 3,050,360.
Jensen, Alfred P.: *See*—
Kime, Elwood H. 3,034,208.
Jensen, Arthur G. Safety socket. 3,018,350, 1–23–62, Cl. 200—115.5.
Jensen, Arthur E. Self-erecting sprinkler head for irrigation pipelines. 3,045,922, 7–24–62, Cl. 239—225.
Jensen, Arvid E., to Ford Motor Co. Integral positive engagement starter. 3,030,518, 4–17–62, Cl. 290—36.
Jensen, Carl W., to Swift & Co. Gelatin bleeders for auto thermostats. 3,065,630, 11–27–62, Cl. 73—40.
Jensen, Clarence F., to Jensen Industries, Inc. Cartridge for phonograph pickup. 3,048,667, 8–7–62, Cl. 179—100.41.
Jensen, Delmar J.: *See*—
Paulson, Lester L., and Jense. 3,025,949.
Jensen, Earl A.: *See*—
Reardon, James A., and Jensen. 3,069,199.
Jensen, Elmer R.: *See*—
McCormick, Jerry R. D., and Jensen. 3,019,260.
Jensen, Erik H., to The Upjohn Co. Process for preparing a more impermeable coating by liquid-liquid phase separation. 3,043,782, 7–10–62, Cl. 252—316.
Jensen, Erik H., to The Upjohn Co. Terpin hydrate suspensions. 3,069,317, 12–18–62, Cl. 167—55.
Jensen, Erik H., and J. G. Wagner, to The Upjohn Co. Coacervation process for encapsulation of lipophilic materials. 3,069,370, 12–18–62, Cl. 260—23.
Jensen, Ervin F.: *See*—
Ensign, Roy K., and Jensen. 3,068,086.
Jensen Fitting Mfg. Ltd.: *See*—
Handberg, Christian N. 3,038,668.
Jensen, Fred H. Liquid level pressure transducer and indicating device. 3,036,463, 5–29–62, Cl. 73—299.
Jensen, Garold K., and J. E. McGeogh, to United States of America, Navy. Automatic bandwidth control with A.F.C. 3,054,965, 9–18–62, Cl. 331—17.
Jensen, Gilbert W.: *See*—
Baudhuin, Francis J., Heiss, Jensen, and Hager. 3,029,847.
Jensen, Harry T.: *See*—
Gerstenberger, Walter, and Jensen. 3,037,722.
Jensen, Herman G., to Seeburg Corp. Discrow cup for coin operated vending machines and the like. 3,030,008, 4–17–62. Cl. 232—57.5.
Jensen, Ib H., and J. Reimann, to Den Danske Presses Faellesindkobs-Forening. Printing ink rub-off tester. 3,063,-285, 11–13–62, Cl. 73—7.
Jensen, Jacob: *See*—
Jensen, Clarence F. 3,048,667.
Jensen, James L., to Minneapolis-Honeywell Regulator Co. Parallel operation of tetrode transistors. 3,016,494, 1–9–62, Cl. 330—24.
Jensen, James L., to Minneapolis-Honeywell Regulator Co. Control apparatus. 3,022,427, 2–20–62, Cl. 307—57.
Jensen, James L., to Minneapolis-Honeywell Regulator Co. Temperature compensated transistor circuit. 3,051,873, 8–28–62, Cl. 317—148.5.
Jensen, James L., to Minneapolis-Honeywell Regulator Co. Semi-conductor apparatus. 3,060,363, 10–23–62, Cl. 321—5.
Jensen, Jennings A. Main bearing lifter. 3,040,424, 6–16–62, Cl. 29—267.
Jensen, Jens E. G., to Danfoss ved ingenior Mads Clausen. Feeler element for a humidostat. 3,056,935, 10–2–62, Cl. 338—35.
Jensen, Kaj H., to Hamilton Watch Co. Indexing mechanism. 3,041,818, 7–3–62, Cl. 58—28.
Jensen, Kaj H., to Hamilton Watch Co. Housing for battery driven clock. 3,049,861, 8–21–62, Cl. 58—23.
Jensen, Jennings. Cervical traction device. 3,033,198, 5–8–62, Cl. 128—75.
Jensen, Lester K.: *See*—
Drackett, Myron J., Jensen, and Johnson. 3,039,635.
Jensen, Mead L., to Callahan Mining Corp. Recovery of sulfur from sulfates. 3,024,205, 2–6–62, Cl. 195—2.
Jensen, Melvin J., 50% to W. H. Jerome. Dual shackle with automatic release. 3,023,453, 3–6–62, Cl. 17—44.1.
Jensen, Melvin J., 50% to W. H. Jerome. Tripping hook. 3,032,172, 5–1–62, Cl. 198—177.
Jensen, Norman R., to Western Electric Co., Inc. Retaining ring setting tool. 3,030,700, 4–24–62, Cl. 29—229.
Jensen, Orabelle H. Stool construction. 3,023,050, 2–27–62, Cl. 297—462.
Jensen, Otto, to I-T-E Circuit Breaker Co. Protection of mercury arc rectifier. 3,044 005, 7–10–62, Cl. 321—12.
Jensen, Otto, to I-T-E Circuit Breaker Co. High impedance short-circuiter for semi-conductor rectifiers. 3,067,375, 12–4–62, Cl. 321—14.
Jensen, Otto, to I-T-E Circuit Breaker Co. Unitary cooling tank for rectifiers. 3,069,615, 12–18–62. Cl. 321—48.
Jensen, Otto, and F. R. Bingham, to I-T-E Circuit Breaker Co. High speed interrupters and D.C. circuits. 3,067,361, 12–4–62, Cl. 317—43.
Jensen, Raymond W. Butterfly valve. 3,059,897, 10–23–62, Cl. 251—306.
Jensen, Raymond W., E. J. Knight, Jr., and E. D. Marlin, to The Garrett Corp. Temperature compensated pressure ratio sensing controller for an afterburner fuel control. 3,063,239, 11–13–62. Cl. 60—35.6.
Jensen, Sanning C. Bar lock for grain hammermills. 3,015,-452, 1–2–62, Cl. 241—194.
Jensen, Thormod, C. Kenkman, and W. W. Plumb, to St. Regis Paper Co. Sealing process and apparatus. 3,057,-125, 10–9–62, Cl. 53—14.
Jensen, Waldo A. Self-cleaning tire tread. 3,030,998, 4–24–62, Cl. 152—209.
Jensen, Walter L., R. P. Phillips, and G. E. Claussen, to Union Carbide Corp. Metal arc welding, composition, and process. 3,052,792, 9–4–62, Cl. 219—74.
Jensen, Warren R.: *See*—
Batchelor, Clyde S., and Jensen. 3,062,348.
Jensen, Wilbur F.: *See*—
Mann, Robert L., and Jensen. 3,040,980.
Jenson, Kenneth S., and F. W. Suhr, to Preway, Inc. Pot type burner apparatus. 3,017,923, 1–23–62, Cl. 158—91.
Jenson, Kenneth S., to Preway, Inc. Pot type burner apparatus. 3,017,924, 1–23–62, Cl. 158—91.

Jen Su, Goug: *See*—
Sanford, Elbert A., and Jen Su. 3,062,685.
Jentoft, Arthur P., to H. H. Robertson Co. Conditioned air distribution. 3,026,041, 3–20–62, Cl. 236—13.
Jeppener, Otto, Jr.: *See*—
Jeppener, Otto, Sr., and O. Jeppener, Jr. 3,066,624.
Jeppener, Otto, Sr., and O. Jeppener, Jr. Lock stitch machine with bobbin thread guide. 3,066,624, 12–4–62, Cl. 112—185.
Jeppsson, Erik M., to Svenska Aktiebolaget Bromsregulator. Automatic, single-acting brake slack adjusters. 3,019,860, 2–6–62, Cl. 188—196.
Jepsen, Robert L., to Varian Associates. Glow discharge apparatus. 3,028,071, 4–3–62, Cl. 230—69.
Jepsen, Robert L., F. L. Salisbury, and C. E. Ward, to Varian Associates. Electron tube apparatus. 3,021,447, 2–13–62, Cl. 315—5.19.
Jepsen, Robert L., and R. L. Walter, to Varian Associates. High frequency tube apparatus and coupled cavity output circuit therefor. 3,028,519, 4–3–62, Cl. 315—5.43.
Jepson, Ivar, to Sunbeam Corp. Electric heating device and method of making the same. 3,017,492, 1–16–62, Cl. 219—44.
Jepson, Ivar, to Sunbeam Corp. Rotary disc cutter. 3,028,719, 4–10–62, Cl. 56—295.
Jepson, Ivar, to Sunbeam Corp. Process of manufacturing electrically heated cooking vessel. 3,031,735, 5–1–62, Cl. 29—155.5.
Jepson, Ivar, to Sunbeam Corp. Portable power driven saw. 3,050,093, 8–21–62, Cl. 143—68.
Jepson, Ivar, to Sunbeam Corp. Appliance plug and receptacle. 3,054,080, 9–11–62, Cl. 339—66.
Jepson, Ivar, and J. L. Viecelli, to Sunbeam Corp. Electric pressing iron. 3,030,485, 4–17–62, Cl. 219—25.
Jepson, Ivar, and E. G. Lill, to Sunbeam Corp. Power operated lawn mower. 3,035,386, 5–22–62, Cl. 56—26.
Jepson, Ivar, and C. H. Wickenberg, to Sunbeam Corp. Cooking vessel. 3,068,342, 12–11–62, Cl. 219—44.
Jepson, Ivar, and A. F. Ernstberger, to Sunbeam Corp. Floor conditioner. 3,068,503, 12–18–62, Cl. 15—49.
Jepson, Percy, to L. A. Wise. Liquid separator. 3,055,562, 9–25–62, Cl. 222—472.
Jepsen, Robert L., to Varian Associates. Cathodes for magnetically-confined glow discharge apparatus. 3,070,719, 12–25–62, Cl. 313—7.
Jerabek, Charles A.: *See*—
Spilman, Raymond, Jerabek, and Jackson. 3,066,792.
Jeremiah, Earl E., to National Can Corp. Can line divider. 3,053,369, 9–11–62, Cl. 193—39.
Jergens, Andrew, Co., The: *See*—
Lohr, John W. 3,040,075.
Jerguson Gage & Valve Co.: *See*—
Van Ham, Ernest E. 3,048,036.
Jernigan, Robert N. Mason's multipurpose implement and anchoring device. 3,017,701, 1–23–62, Cl. 33—85.
Jernigan, Robert N. Masonry corner and wall lay-up guide. 3,039,196, 6–19–62, Cl. 33—85.
Jernstedt, Kenneth A.: *See*—
Muirhead, Samuel A. 3,053,546.
Jero, John P.: *See*—
Bailey, John M., Engelking, Hopper, and Jero. 3,022,232
Jerome, Jack, to General Cable Corp. Method and apparatus for turning back cable sheath. 3,067,802, 12–11–62, Cl. 153—80.5.
Jerome, Joseph C.: *See*—
Yalom, Isador D., and Jerome. 3,055,960.
Jerome, Wallace H.: *See*—
Jensen, Melvin J. 3,023,453.
Jensen, Melvin J. 3,032,172.
Jeromson, James R., Jr.: *See*—
Grigsby, John D., and Jeromson. 3,048,976.
Grigsby, John D., and Jeromson. 3,048,979.
Jerothe, Rudolph A., to Toscony Fabrics Inc. Two-sided laminator. 3,020,194, 2–6–62, Cl. 156—583.
Jerothe, Rudolph A., to Toscony, Inc. Method of coating vinyl film with a surfacing color. 3,036,927, 5–29–62, Cl. 117—7.
Jerothe, Rudolph A., to Toscony, Inc. Method of making relatively thin vinyl films. 3,050,784, 8–28–62, Cl. 18—57.
Jerro Stamping Co.: *See*—
Pickles, Joseph. 3,067,627.
Jerrold Electronics Corp.: *See*—
Beever, Jack. 3,020,550.
Simons, Keneth A. 3,048,798.
Jersey Creme Holding Pty. Ldt.: *See*—
Clifford, George F. 3,050,960.
Jersey Production Research Co.: *See*—
Alexander, Lloyd G. 3,064,481.
Alexander, Warren A. 3,054,085.
Alexander, Warren A. 3,065,456.
Allen, Thomas O. 3,055,424.
Ball, John D., and Charske. 3,056,105.
Ball, John D., and Phillips. 3,060,388.
Banks, William P. 3,051,235.
Barry, Adelbert. 3,032,116.
Barry, Adelbert. 3,055,095.
Barry, Adelbert, and Monnce. 3,059,695.
Beck, Robert W. 3,048 231.
Bielstein, Walter J. Re. 25,298.
Bielstein, Walter J. 3,032,108.
Binkley, George W., and Robinson. 3,022,824.
Bridwell, Harold C. 3,064,742.
Jersey Production Research Co.: *See*—Continued
Brown, Stephen S. 3,027,945.
Bruce, George H. 3,047,313.
Buck, Henry M., and Peters. 3,055,428.
Burns, Kay N. 3,070,776.
Burns, Kay N., and Ikard. 3,070,749.
Burns, Kay N., and Skelton. 3,058,110.
Caldwell, Joseph A. 3,059,469.
Caldwell, Joseph A., and Lytle. 3,021,278.
Caldwell, Joseph A., and Morgan. 3,022,823.
Calkins, Ray L. 3,032,742.
Calvert, John G., Corley, and Fredd. 3,064,580.
Cannon, George E., Overly, Root, and Pennington. 3,059,708.
Clifford, Edward L., and Redding. 3,059,718.
Colby, John B., and Holland. 3,070,163.
Corley, Charles B., Jr. 3,026,634.
Corley, Charles B., Jr., Kenneday, Tausch, and True. 3,032,109.
Corley, Charles B., Jr., and Loy. 3,032,111.
Corley, Charles B., Jr., and McStravick. 3,036,635.
Dumbauld, George K., and Monaghan. 3,065,170.
Dunbar, Huey. 3,040,673.
Eckel, John E., and Camp. 3,036,646.
Eckel, John E., and Lock. 3,016,098.
Edwards, Jack H. 3,055,443.
Focht, Frank T., and Sims. 3,032,106.
Foster, Paul H., and Stark. 3,060,404.
Gallus, Julius P. 3,055,208.
Getzen, Forrest W. 3,022,827.
Graham, John W. 3,070,181.
Graham, John W., and Kerver. 3,070,178.
Graham, John W., Kerver, and Prokop. 3,020,954.
Graham, John W., and Muench. 3,040,822.
Graham, John W., Muench, and Williams. 3,020,964.
Hibbard, Haines C. 3,041,610.
Hildebrandt, Alexander B. 3,066,749.
Hildebrandt, Alexander B. 3,066,750.
Hildebrandt, Alexander B. 3,067,404.
Hilton, Albert R., Jr., and Spain. 3,070,169.
Hiser, Wilber F., and McCarty. 3,032,125.
Howard, Glenn O. 3,040,812.
Ikard, Wallace L. 3,040,320.
Ikard, Wallace L. 3,040,321.
Johnson, Virgil R. 3,066,754.
Johnson, Virgil R., and Skelton. 3,047,836.
Kellner, Jackson M. 3,024,855.
Kenneday, John W. 3,020,958.
Kenney, Ben D., and Hildebrandt. 3,032,127.
Kerver, John K., and Ikard. 3,055,425.
Kerver, John K., and Holland. 3,070,161.
Kerver, John K., Holland, and Graham. 3,055,426.
Kimberly, Emerson E. 3,069,900.
Knapp, Richard P. 3,064,437.
Knapp, Richard P., and Legg. 3,027,951.
Knauth, Julius T. 3,070,166.
Kyte, John R. 3,051,234.
Liles, Joseph R., Jr., Corley, and Loy. 3,051,237.
Lindley, Donald C. 3,064,729.
Lindsey, William C. 3,036,522.
Lindsey, William C. 3,058,696.
Loy, Samuel E., III., and Lindsey. 3,059,700.
Loy, Samuel E., III, McStravick, and Lindsey. 3,070,167.
Lynn, Ralph D. 3,051,893.
McCarter, Ed R. 3,056,077.
McCarter, Ed R., and Wilcox. 3,028,579.
McStravick, Peter R. 3,055,228.
McStravick, Peter R., and Loy. 3,022,822.
Meadors, Victor G. 3,047,062.
Meier, Edwin H., Roark, Skelton, and Webster. 3,037,186.
Monaghan, Patrick H. 3,041,276.
Moore, Armistead M. 3,065,454.
Moore, Preston L. 3,070,179.
Morrow, Morris R., Snyder, and Howell. 3,065,171.
Mosier, Benjamin. 3,064,757.
Muench, Nils L. 3,070,697.
Muench, Nils L., and Rickard. 3,064,468.
Nelson, Norman A. 3,028,050.
Nelson, Norman A. 3,031,965.
O'Reilly, Wallace M. 3,032,104.
O'Reilly, Wallace M. 3,047,070.
Orr, Willis P. 3,020,961.
Ortloff, John E. 3,053,321.
Parks, Mercer H. 3,022,632.
Patton, John T. 3,020,207.
Patton, John T. 3,042,611.
Patton, John T., and Lindblom. 3,020,206.
Peters, Beldon A., and Rich. 3,047,072.
Pistole, Harry, Rike, Terrel, and Lefner. 3,055,339.
Pistole, Harry, True, Pitts, Morse, McFarland, and Boer. 3,040,811.
Pitts, William A. 3,059,697.
Reistle, Carl E., Jr. 3,027,943.
Reistle, Carl E., Jr. 3,032,105.
Reistle, Carl E., Jr. 3,070,160.
Rickard, James A. 3,047,720.
Rike, James L., and Lindsey. 3,070,171.
Robinson, Leon H., Jr. 3,022,729.
Robinson, Leon H., Jr. 3,070,010.
Robinson, Leon H., Jr., and Friedman. 3,070,011.

Jersey Production Research Co.: *See*—Continued
Roper, Robert. 3,025,237.
Roper, Robert, and Stright. 3,070,158.
Rowley, David S. 3,036,645.
Rumble, Robert C., and Hoyer. 3,032,107.
Shanks, John L. 3,063,914.
Sims, James R. 3,036,438.
Sparks, William J. 3,053,765.
Tausch, Gilbert H. 3,020,955.
Tausch, Gilbert H. 3,020,957.
Tausch, Gilbert H., Corley, and Kenneday. 3,040,813.
Tausch, Gilbert H., and Kenneday. 3,032,117.
Tausch, Gilbert H., and Kenneday. 3,055,429.
Terry, Melvin C. 3,028,542.
Thompson, Gene D., Hough, and Lane. 3,070,545.
True, Martin E. 3,064,571.
Wepsala, George B., Jr. 3,047,079.
West, Robert C., and Willman. 3,047,064.
White, Millage M. 3,032,653.
White, Millage H., and Buck. 3,036,460.
Williams, Robert E., and Spain. 3,047,067.
Willman, Bertram T. 3,024,841.
Willman, Bertram T. 3,042,114.
Willman, Bertram T., and Runberg. 3,027,942.
Winfrey, James W. 3,027,771.
Winfrey, James W., Knapp, and Hove. 3 064,829.
Winsauer, Weldon O., and Edwards. 3,022,825.

Jerue, Richard A.: *See*—
Sweeny, Allen N., and Jerue. 3,069,932.

Jervis Corp.: *See*—
Jacobson, Edwin B. 3,030,821.
Jacobson, Edwin B. 3 057,262.
Johnson, Robert E. 3,065,498.

Jervis, Roy: *See*—
Watson, John W., Kendall, and Jervis. 3,025,259.
Watson, John W., Kendall, and Jervis. 3,043,708.

Jesionowski, John. Vise. 3,021,132, 2–13–62, Cl. 269—79.

Jess, Thurman S., M. J. Morrisette, and E. J. Poitras, to Fenwal, Inc. Kit and packaging, mixing and dispensing means for mixture ingredients. 3,064,802, 11–20–62, Cl. 206—47.

Jesson, Ralph W. Golfers' portable seat accessory. 3,066,-901, 12–4–62, Cl. 248—205.

Jessop, Gilbert, to Cambridge Instrument Co., Inc. Method and apparatus for measurement of dissolved oxygen. 3,022,241, 2–20–62, Cl. 204—195.

Jester, Thomas C., to Darling Valve & Mfg. Co. Curb hydrant. 3,070,115, 12–25–62, Cl. 137—296.

Jesty, Leslie C., to Sylvania Thorn Colour Television Laboratories Ltd. Television picture display devices. 3,059,-145, 10–16–62, Cl. 315—169.

Jesus, Henri L. L. Drying and ironing machines. 3,058,244, 10–16–62, Cl. 38—14.

Jetco, Inc.: *See*—
Evans, Clifford J. 3,041,752.

Jeter, John D., to Dresser Industries, Inc. Well apparatus. 3,065,416, 11–20–62, Cl. 324—70.

Jet-Heet, Inc.: *See*—
Barber, Arthur, Jr. 3 062,946.
MacCracken, Calvin D., Rioux, Miles, and Hoffman. 3,064,414.

Jet Industries Corp.: *See*—
Graf, Arthur. 3,063,323.

Jet Line Products, Inc.: *See*—
Hamrick, James C. 3,034,766.
Hamrick, James C. 3,052,451.

Jet Research Center, Inc.: *See*—
Christopher, Glenn B. 3,053,182.
Christopher, Glenn B. 3,057,295.
Diehold, Joe B. 3,063 372.
Poulter, Thomas C., Brink, and Seaward. 3,058,058.

Jetsaw, Inc.: *See*—
Schreck, Harold J., and Rockerath. 3,016,028.

Jetsew, Inc.: *See*—
Schreck, Harold J., and Rockerath. 3,026,833.

Jet Spray Cooler, Inc.: *See*—
Jacobs, William H., and Witzel. 3,052,791.

Petronic Industries, Inc.: *See*—
Rachwalski, Alfons Z. 3,061,812.

Jett, James A., to United States of America, Air Force. Propellant grain and rocket motor. 3,017,744, 1–23–62, Cl. 60—35.6.

Jetter, William W., to Mid-States Welder Mfg. Co. Welding system using adjustable current transformer. 3,059,170, 10–16–62, Cl. 323—56.

Jeudon, Andre P.: *See*—
Raymond, Francois H., and Jeudon. 3,062,995.

Jewell, Howard W., to M. Jewell, by decree of distribution. Pipe coupling. 3,061,339, 10–30–62, Cl. 285—236.

Jewell, Jack R.: *See*—
Ottenbacher, Theophilus H. 3,050,124.

Jewell, James D.: *See*—
Smith, Robert E., and Jewell. 3,036,598.

Jewell, James G., to Gulf Research & Development Co. Process for providing a solid body with a protective film. 3,017,353, 1–16–62, Cl. 252—8.55.

Jewell, Lee: *See*—
Lawrence, Harry J. 3,024,646.

Jewell, M.: *See*—
Jewell, Howard W. 3,061,339.

Jewell, Raymond L., to American Sterilizer Co. Surgical instrument washer and sterilizer. 3,034,520, 5–15–62, Cl. 134—99.

Jewell, Richard G., to General Electric Co. Flexible connecting device. 3,033,318, 5–8–62, Cl. 188—1.

Jewell, Robert A., to Great Dane Trailers, Inc. Vehicle roof structure. 3,028,192, 4–3–62, Cl. 296—28.

Jewell, Robert A., to Great Dane Trailers, Inc. Vehicle roof structure. 3,036,670, 5–29–62, Cl. 189—34.

Jewell, Robert A. Vehicle suspension. 3,057,641, 10–9–62, Cl. 280—104.5.

Jewell, Robert B., to Mason & Hanger-Silas Mason Co., Inc. Apparatus for excavating large diameter shafts. 3,024,-852, 3–13–62, Cl. 175—184.

Jewell, William R.: *See*—
Liimatainen, Teuvo A., and Jewell. 3,060,336.

Jewett, Edmund G. Adjustable sundial. 3,031,763, 5–1–62, Cl. 33—62.

Jewett, John E., K. L. Moothart, H. J. Morrison, and J. R. Snow, to United States of America, Navy. Electronic scanning switch. 3,015,800, 1–2–62, Cl. 340—6.

Jewett, Lawrence E.: *See*—
Gardiner, Paul C., Jewett, and Broome'l. 3 022,760.

Jewett, Warren R. Apparatus for testing biological and other fluids. 3,053,078, 9–11–62, Cl. 73—54.

Jewett, Wayne M.: *See*—
Awramik, Joseph, Jr., and Jewett. 3,050,249.

Jex, Victor B., J. E. McMahon, and W. G. Whitehead, to Union Carbide Corp. Process for producing dichlorosilane. 3,044,845, 7–17–62, Cl. 23—14.

Jex, Victor B., and D. L. Bailey, to Union Carbide Corp. Organopolysiloxanes and process for producing same. 3,044,982, 7–17–62, Cl. 260—46.5.

Jex, Victor B., and D. L. Bailey, to Union Carbide Corp. End-blocked aminoalkylpolysiloxanes and process for cyclic aminoalkylsiloxanes. 3,045,036, 7–17–62, Cl. 260—448.2.

Jeynes, Graham F., to North American Philips Co., Inc. Cold cathode counting tube circuits. 3,056,901, 10–2–62, Cl. 315—84.6.

Jeynes, Paul H., Jr., to Chesebrough-Pond's, Inc. Synthetic resin bottles. 3,024,947, 3–13–62, Cl. 222—80.

Jezek, Henry J. Cotton stripper. 3,067,561, 12–11–62, Cl. 56—34.

Jezl, James L.: *See*—
Mills, Ivor W., Beck, and Jezl. 3,042,708.

Jezl, James L., to Sun Oil Co. Pavement construction. 3,038,392, 6–12–62, Cl. 94—4.

Jezl, James L., to Sun Oil Co. Polymerization of propylene. 3,057 838, 10–9–62, Cl. 260—93.7.

Jibben, Bart P., to N. V. Onderzoekingsinstituut Research. Heat stabilization of polycarbonates. 3,021,303, 2–13–62, Cl. 260—45.75.

Jibben, Bart P., to Onderzoekingsinstituut Research, N.V. Heat stabilization of polycarbonates. 3,042,653, 7–3–62, Cl. 260—45.75.

Jibben, Bart P., and H. G. J. Overmars, to Onderzoekingsinstituut Research, N.V. Production of polycarbonates. 3,054,772, 9–18–62, Cl. 260—47.

Jiffy Mfg. Co.: *See*—
Gerard, George. 3,055,575.

Jiffy Products: *See*—
Nika, Louis E. 3,061,262.

Jim-Jak Industries, Inc.: *See*—
Wegley, James E. and E. J., and Calhoun. 3,023,933.

Jinkins, Clarence J., Jr. Drill pipe handling apparatus. 3,053,401, 9–1–62, Cl. 214—2.5.

Jipp, John, to Ampex Corp. Signal system. 3,024,311, 3–6–62, Cl. 179—16.

Jirik, Jaroslav: *See*—
Dubsky, Borivoj, Straka, Jirik, and Sedlacek. 3,026,491.

Jirou, Marcel, to Compagnie Francaise des Matieres Colorantes. Process for the coloration of nylon type 11 fibres. 3,023,077, 2–27–62, Cl. 8—55.

Jirou, Marcel, and V. Urné, to Compagnie Francaise des Matieres Colorantes. Trisazo cupriferous dyestuffs. 3,021,-322, 2–13–62, Cl. 260—145.

Jirou, Marcel, and V. Urne, to Compagnie Francaise des Matieres Colorantes. New cupriferous trisazo dyestuffs and a process for their preparation. 3,030,352, 4–17–62, Cl. 260—145.

Jiu, James, to G. D. Searle & Co. 2,3,4,17-tetraacetoxyestra-1,3,5(10)-triene. 3 016,391, 1–9–62, Cl. 260—397.5.

Jiu, James, to G. D. Searle & Co. 1,3- and 1,4-bisoxygenated estra-1,3,5(10)-trienes and intermediates. 3,018,297, 1–23–62, Cl. 260—397.4.

Jiu, James, to G. D. Searle & Co. 16-substituted 1,3-diacyloxyestra-1,3,5(10)-trien-17-ones. 3,024,256, 3–6–62, Cl. 260—397.4.

Jiu, Richard, to Thompson Ramo Wooldridge Inc. Ring counter. 3,021,450, 2–13–62, Cl. 315—84.5.

Joa, Curt G., to Falls Paper & Power Co. Batt or mat forming apparatus. 3 016 582, 1–16–62, Cl. 19—156.

Joa, Curt G., to Falls Paper & Power Co. Method and apparatus for forming individual wrapped pads from otherwise continuous batt strips. 3,017,795, 1–23–62, Cl. 83—129.

Joa, Curt G., to Falls Paper & Power Co. Method and apparatus for forming individual wrapped pads from otherwise continuous batt strips. 3,020,687, 2–13–62, Cl. 53—23.

Joa, Curt G. Method and apparatus for cutting and folding paper or cloth webs. 3,021,135, 2–13–62, Cl. 270—70.

Joa, Curt G., to Kohler-Joa Corp. Woodworking machines having cutting tools which may selectively be advanced and retracted with respect to workpieces on a conveyor. 3,036,605, 5–29–62, Cl. 143—41.

Joa, Curt G. Apparatus for stacking sheets. 3,054,516, 9–18–62, Cl. 214—6.

Joa, Curt G., to Falls Paper & Power Co. Method and apparatus of forming batts and pads. 3,058,169, 10–16–62, Cl. 19—144.5.

Joachim, Annemarie : *See—*
Bovarnick, Bennett, and Joachim.

Joachim, Gunther : *See—*
Bovarnick, Bennett, and Joachim. 3,021,285.

Joachim, Hans S. : *See—*
Bovarnick, Bennett, and Joachim. 3,021,285.

Joachim, Ingeborg : *See—*
Bovarnick, Bennett, and Joachim. 3,021,285.

Joachim, Starling F. : *See—*
Raub, Samuel H. S., Alton, Joachim, and Palmquist. 3,044,489.

Jobe, William L. : *See—*
Borgersen, Roland and R. H., and Jobe. 3,029,631.

Jobson, C. Dew. Ball carom billiard adjustable pocket plugs. 3,061,308, 10–30–62. Cl. 273—14.

Jobst, Conrad, to Jobst Institute Inc. Means for stimulating the flow of fluids in animal bodies. 3,063,444, 11–13–62, Cl. 128—39.

Jobst Institute Inc. : *See—*
Jobst, Conrad. 3,063,444.

Jochems, Pieter J. W., to North American Philips Co., Inc. Method of producing semi-conductor electrode systems. 3,043,726, 7–10–62, Cl. 148—1.5.

Jochinke, Hellmut : *See—*
Peters, Heinrich, Schleede, Jochinke, and Klug. 3,025,262.

Jockers, Kurt, and H. Meier, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production and regeneration of platinum carrier catalysts for the synthesis of hydroxylamine from nitric oxide and hydrogen. 3,060,133, 10–23–62, Cl. 252—472.

Jodell, Georg E., A. Lindstrom, and S. H. Ysberg, to Aktiebolaget Electrolux. Multi-density expanded plastic-body. 3,027,040, 3–27–62, Cl. 220—9.

Joers, William F., to Applied Power Industries, Inc. Power operated shear. 3,059,334, 10–23–62, Cl. 30—228.

Joest, Herbert : *See—*
Sennewald, Kurt, Dobek, and Joest. 3,022,336.

Joesting, Frederick D., to Minneapolis-Honeywell Regulator Co. Double duct air conditioning apparatus. 3,030,024, 4–17–62, Cl. 236—13.

Joffe, Edward J., to Park Plastics Co., Inc. Two-stage rocket. 3,049,832, 8–21–62, Cl. 46—74.

Joffe, Irving B. : *See—*
Van Dolah, Robert W., and Joffe. 3,025,318.

Joffe, Seymour L. Marking device for detecting dental premature contact of opposing teeth. 3,046,658, 7–31–62, Cl. 32—19.

Joffe, Seymour L. Occlusolators. 3,058,217, 10–16–62, Cl. 32—19.

Johannes, Erich H. L., to Campbell Soup Co. Process for making spaghetti. 3,061,440, 10–30–62, Cl. 99—85.

Johannesen George T., Sr., to The Upjohn Co. Closure device for dispensing pills and capsules from bottles. 3,045,875, 7–24–62, Cl. 222—364.

Johannesson, Nils O., to Telefonaktiebolaget L M Ericsson. Apparatus for attenuation correction of a coaxial cable used for carrier frequency telephony. 3,022,952, 2–27–62, Cl. 235—193.

Johanningmeier, Charles E., to International Minerals & Chemical Corp. Device for discharging material being conveyed. 3,025,945, 3–20–62, Cl. 198—65.

Johannsen, Friedrich : *See—*
Hägele, Gustav, Meyer, and Johannsen. 3,044,978.
Hagele, Gustav, Meyer, and Johannsen. 3,066,114.

Johansen, Einar K., to U.S. Industries, Inc. Metal working press. 3,031,992, 5–1–62, Cl. 113—38.

Johansen, Hans A. : *See—*
Brumbach, Robert E., and Johansen. 3,042,737.

Johansen, John V., and P. P. Stanley, to Reichel & Drews, Inc. Strip rolling and wrapping machine. 3,052,073, 9–4–62, Cl. 53—118.

Johansen, Leif H. Dispensing containers for granular substances. 3,043,481, 7–10–62, Cl. 222—158.

Johanson, Frederic R. : *See—*
Mathews, Donald K., Johanson, and Pell. 3,070,373.

Johanson, George W. : *See—*
Jackson, Walter B., Johanson, and Lowe. 3,066,342.

Johanson, Helmut and E. Röthe. Apparatus for temperature measurement. Re. 25,159, 4–17–62, Cl. 246—169.

Johanson, Sten R., to Xerox Corp. Xerographic reproduction apparatus. 3,049,968, 8–21–62, Cl. 88—24.

Johansson, Bertil K. A. : *See—*
Bolj, Karl O. A., and Johansson. 3,042,108.

Johansson, Carl E., to The Youngstown Steel Door Co. Metallic side wall structures for insulated railway cars. 3,015,286, 1–2–62, Cl. 105—409.

Johansson, Carl H., and S. H. Ljungberg, to Nitroglycerin Aktiebolaget. Device for loading bore-holes with explosive. 3,040,615, 6–26–62, Cl. 86—20.

Johansson, Carlton R., to The Dow Chemical Co. Stabilized compositions comprised of copolymers of alkenyl aromatics and acrylonitrile. 3,065,200, 11–20–62, Cl. 260—45.9.

Johansson, Ebbe A. I. and S. A. M. Hinges for sectional folding table tops. 3,046,593, 7–31–62, Cl. 16—146.

Johansson, Folke K. E. : *See—*
Wohlfahrt, Sixten E. S., and Johansson. 3,057,616.

Johansson, Gustav I. R. : *See—*
Goransson, Rolf E., and Johansson. 3,042,988.

Johansson, James W., to Lockheed Aircraft Corp. Adjustable variable reluctance pressure transducer. 3,070,765, 12–25–62, Cl. 336—30.

Johansson, Jan E. : *See—*
Sökjer-Petersen, Gunnar H., Johansson, and Nyman. 3,062,045.

Johansson, John R., to Åkermans Gjuteri & Mek. Verkstad, AB. Pile-driving attachments. 3,035,646, 5–22–62, Cl. 175—154.

Johansson, Oscar E., to Sandvik Steel, Inc. Power springs. 3,018,097, 1–23–62, Cl. 267—1.

Johansson, Oscar E., to Sandvik Steel, Inc. Diaphragm. 3,042,029, 7–3–62, Cl. 128—127.

Johansson, Sture A. M. : *See—*
Johansson, Ebbe A. I. and S. A. M. 3,046,593.

Johmann, Frank T. Protraction-retraction mechanism for writing instruments. 3,051,132. 8–28–62, Cl. 120—42.03.

John, Andrew, Jr., to Hercules Powder Co. Manufacture of cosyclic acids. 3,036,124, 5–22–62, Cl. 260—533.

John, Frank R., to United States of America, Air Force. Self-illuminated aerial camera. 3,019,292, 1–30–62, Cl. 178—6.7.

John, Harold F., to Westinghouse Electric Corp. Process for preparing p-n junctions in semiconductors. 3,054,701, 9–18–62, Cl. 148—1.5.

John, Paul C., and R. R. Pettit, to Minnesota Mining and Mfg. Co. Adherent sealer film. 3,022,870, 2–27–62, Cl. 189—36.

Johns, Don H., to American Can Co. Method of and apparatus for measuring coating amounts. 3,019,336, 1–30–62, Cl. 250—43.5.

Johns, Floyd L., F. C. Gronemeyer, and M. R. Dusbabek, to United States of America, Atomic Energy Commission. Nuclear flash steam generator. 3,052,615, 9–4–62, Cl. 204—193.2.

Johns, Iral B., and H. R. Di Pietro, to Monsanto Research Corp. Nitrogenous organometallic compounds. 3,057,895, 10–9–62, Cl. 260—429.9.

Johns, James F., to Curtiss-Wright Corp. Ceramic diaphragm pump. 3,029,743, 4–17–62, Cl. 103—150.

Johns, La Moine E., to Conmar Products Corp. Lock slider for slide fasteners. 3,052,939, 9–11–62, Cl. 24—205.14.

Johns, La Moine E., and M. F., to Conmar Products Corp. Slide fastener. 3,030,684, 4–24–62, Cl. 24—205.11.

Johns-Manville Corp. : *See—*
Adomshick, George J., and Quinn. 3,053,727.
Barnard, Randolph H. 3,063,093.
Barnett, Irvin. 3,042,976.
Barnett, Irvin, and Speil. 3,055,831.
Brakeley, Paul W. 3,020,584.
Breiner, Richard C. 3,070,480.
Broughton, Amos W., Jr., and Koch. 3,015,503.
Cimochowski, Anthony E. 3,068,932.
Gouveia, A Peter. 3,020,168.
Hanson, Frederick L., and Jack. 3,058,411.
Hesse, Walter K. 3,045,274.
Hughes, Thomas A. 3,048,513.
Jack, William A. 3,027,965.
Jack, William A. 3,037,578.
Kinneman, William P., Jr. 3,055,278.
Labino, Dominick. 3,053,672.
Labino, Dominick. 3,065,614.
Lindaberry, John D. 3,039,106.
McDuff, Leon E. 3,058,759.
Poltorak, Emil J. 3,033,733.
Pusch, Walter G., Hendry, and Hulsizer. 3,050,106.
Quinn, Robert G. 3,037,895.
Ramm, Joseph L. 3,047,288.
Rutter, Donald P. 3,058,860.
Rutter, Donald P. 3,058,861.
Rutter, Donald P., and Cimochowski. 3,031,358.
Santelli, Thomas R. 3,046,242.
Siering, Robert L. 3,020,602.
Streib, William C., and Rowe. 3,055,434.
Vander Linden, Carl R. 3,033,648.
Vander Linden, Carl R., and Leineweber. 3,052,563
Williamson, George H. 3,056,514.
Williamson, George H. 3,070,211.

Johns-Manville Fiber Glass Inc. : *See—*
Ferner, Warren E. 3,029,161.
Hannes, George J. 3,060,068.
Hayden, Ralph L., and Poole. 3,040,999.
Hayden, Ralph L., and Steele. 3,023,729.
Jost, Harold R. 3,038,675.
Jost, Harold R. 3,048,002.
Labino, Dominick. 3,019,117.
Labino, Dominick. 3,028,623.
Labino, Dominick. 3,049,172.
Labino, Dominick. 3,053,715.
Labino, Dominick. 3,063,887.
Labino, Dominick, and Gagin. 3,017,318.
Meyer, Raymond W. 3,061,496.
Rees, Vernon C. 3,051,402.
Santelli, Thomas R., Mohr, and Calendine. 3,046,243.

Johns-Manville Perlite Corp. : *See*—
Denning, Paul S. 3,042,578.
Johns, Max F. : *See*—
Johns, La Moine E., and M. F. 3,030,684.
Johns-Nigrelli-Johns : *See*—
Nigrelli, Biagio J., Standley, and R. B. and J. I. Wittmann. 3,053,025.
Nigrelli, Biagio J., Standley, Wittmann, and Ferraro. 3,034,270.
Johns, Ralph W. : *See*—
Nigrelli, Biagio J., Standley, and R. B. and J. I. Wittmann. 3,053,025.
Nigrelli, Biagio J., Standley, Wittmann, and Ferraro. 3,034,270.
Johns, Robert A., to Belle City Malleable Iron Co. Digger teeth for excavators and the like. 3,021,627, 2–20–62, Cl. 37—142.
Johns, Robert R. : *See*—
Nigrelli, Biagio J., Standley, and R. B. and J. I. Wittmann. 3,053,025.
Nigrelli, Biagio J., Standley, Wittmann, and Ferraro. 3,034,270.
Johns, Stanley K., to St. Lawrence Mfg. Co., Inc. Shoe lacing hook. 3,027,057, 3–27–62, Cl. 223—113.
Johns, William F. : *See*—
Johnson, William S., and Johns. 3,049,539.
Johns, William F., to G. D. Searle & Co. 3,17-bisoxygenated-18-nor-1,3,5(10)-estratrienes and intermediates. 3,016,389, 1–9–62, Cl. 260—397.4.
Johns, William F., and G. P. Mueller, to G. D. Searle & Co. 17-oxygenated 16-haloestr-5(10)-enes. 3,025,308, 3–13–62, Cl. 260—397.3.
Johns, William H., and A. L. Stoeckel, to United States Steel Corp. Apparatus for twisting barbed wire. 3,021,872, 2–20–62, Cl. 140—60.
Johnsa, Berry H., to Atlanta Oak Flooring Co. Grinder. 3,032,934, 5–8–62, Cl. 51—100.
Johnsen, Arthur M. : *See*—
Bard, Albert L., and Johnsen. 3,061,209.
Johnsen, John N. : *See*—
Braaten, Arnud, Wilhelmsen, and Johnsen. 3,065,731.
Johnson, A. E., & Sons : *See*—
Johnson, Abbie W. 3,035,513.
Johnson, Abbie W., to A. E. Johnson & Sons. Feed block press. 3,035,513, 5–22–62, Cl. 100—218.
Johnson, Albert S., Jr., to Owens-Illinois Glass Co. Dispensing closure cap. 3,056,522, 10–2–62, Cl. 215—46.
Johnson, Allan S. Ball-bearing reversing tapping attachment. 3 041,893, 7–3–62, Cl. 74—798.
Johnson, Allen S., Jr., to Carolina-Tuff-Lite Corp. Method and apparatus for heating solid particles. 3,030,089, 4–17–62, Cl. 263—21.
Johnson, Allen S., Jr., to Carolina-Tuff-Lite Corp. Heat treatment of minerals. 3,030,090, 4–17–62, Cl. 263—28.
Johnson, Alvin O. : *See*—
Le Febvre, Alfred L., Johnson, and Fuller. 3,032,796.
Johnson, Alvon P., and J. W. Keenan. Veterinary hypodermic syringe. 3,051,173, 8–28–62, Cl. 128—218.
Johnson, Andrew L., to Ampex Corp. Inverter having amplitude regulation. 3,027,508. 3–27–62. Cl. 321—19.
Johnson, Andrew L., to Illinois Tool Works, Inc. Setting device. 3,040,924 6–26–62, Cl. 218—2.
Johnson, Andrew M. : *See*—
Barsness, Norris K., Meyer, Johnson, and Thompson. 3,064,453.
Johnson, Arden R. Stapling machine. 3,026,519, 3–27–62, Cl. 1—3.
Johnson, Armigene R. Adjustable garment. 3,049,718, 8–21–62. Cl. 2—76.
Johnson, Armigene R. Garment with attached belt. 3,059,240. 10–23–62. Cl. 2—76.
Johnson, Arthur E., to A. O. Smith Corp. Dual power sources. 3,059,164, 10–16–62, Cl. 321—8.
Johnson, Arthur E., to A. O. Smith Corp. Safety circuit for rectifier power sources. 3,047,848, 7–31–62, Cl. 340—250.
Johnson, Arthur E., to A. O. Smith Corp. Output control for arc welding machines. 3,067,377, 12–4–62, Cl. 321—18.
Johnson, Arthur F., to Strategic Materials Corp. Slag reduction process. 3,015,553, 1–2–62, Cl. 75—24.
Johnson, Arthur F., to Strategic Materials Corp. Metallurgical process. 3,032,411, 5–1–62, Cl. 75—74.
Johnson, Arthur F. Hydraulic mining process. 3,041,053, 6–26–62, Cl. 262—2.
Johnson, Arthur F., to Anderson Tool & Mfg. Co. Rod-type periodical binder. 3,051,181, 8–28–62, Cl. 129—38.
Johnson, Arthur J. : *See*—
Martin, Henry W., and Johnson. 3,038,439.
Johnson, Arthur L., to Hexacon Electric Co. Electric soldering iron of the instant heat type. 3,023,295, 2–27–62, Cl. 219—26.
Johnson, Arthur O. Deer towing harness. 3,038,644, 6–12–62, Cl. 224—5.
Johnson, Arthur T. V., ½ to The Melton Garage and Engineering Co. Ltd. Electrical systems for preventing unauthorised use of vehicles propelled by internal combustion engines. 3,058,092, 10–9–62, Cl. 340—64.
Johnson, Axel E. F., to American Hospital Supply Corp. Support stand. 3,031,085, 4–24–62, Cl. 211—86.
Johnson, Axel E. F., and W. E. Mize, to Institutional Industries, Inc. Wheel chair. 3,054,638, 9–18–62, Cl. 297—42.
Johnson, Axel V., Jr. Kite rocket parachute release. 3,023,-987, 3–6–62, Cl. 244—155.
Johnson, Bert E. Sludge removal bonnet for core drills and the like. 3,033,298, 5–8–62, Cl. 175—209.
Johnson, Birger L. Paint and varnish scraper. 3,036,190, 5–22–62, Cl. 219—29.
Johnson, Bruce D., to The C. A. Lawton Co., Inc. Method of shell banding. 3,050,845, 8–28–62, Cl. 29—520.
Johnson, Burford L., and R. L. Detterman, to United States of America, Atomic Energy Commission. Controlled element actuator. 3,038,845, 6–12–62, Cl. 204—193.2.
Johnson, C G. R. : *See*—
Greiner, Charles J., Johnson, and Bletzinger. 3,034,180.
Johnson, C. Peter, Jr. Optical pyrometer with photoelectric detector. 3,057,253. 10–9–62, Cl. 88—22.5.
Johnson, Carl A., to Sperry Rand Corp. Pulse discriminating and control circuit for multivibrator circuits. 3,042,813, 7–3–62, Cl. 307—88.5.
Johnson, Carl A. Lawn edger. 3,048,921, 8–14–62, Cl. 30—292.
Johnson, Carl E., to General Aniline & Film Corp. Bleaching bath for processing color film. 3,042,520, 7–3–62, Cl. 96—60.
Johnson, Carl E., to The Kelling Nut Co. Display case. 3,062,607, 11–6–62, Cl. 312—117.
Johnson, Carl G. : *See*—
Frisch, Erling, and Johnson. 3,034,814.
Johnson, Cecil E. : *See*—
Johnson, Carlyle, Barnard, and Johnson. 3,043,733.
Johnson, Cecil M., and A. Trewhitt, to Fisher Governor Co. High pressure regulator. 3,064,675, 11–20–62, Cl. 137—489.5.
Johnson, Charles A., to J. W. Bolton & Sons, Inc. Segmental filling for reamer plugs. 3,059,863, 10–23–62, Cl. 241—294.
Johnson, Charles A., and W. F. Hildebrandt, to John W. Bolton & Sons, Inc. Working surfaces for reaming engines. 3,065,920, 11–27–62, Cl. 241—294.
Johnson Charles A. R. : *See*—
Zellner, Robert J., and Johnson. 3,031,511.
Johnson, Charles F. : *See*—
Lewis, Dan W., and Johnson. 3,068,027.
Johnson, Charles G. R. : *See*—
Greiner, Charles J., and Johnson. 3,030,245.
Johnson, Charles G. R., to Kimberly-Clark Corp. Paper making machine. 3,032,039, 9–4–62, Cl. 34—110.
Johnson, Charles H., to Gisholt Machine Co. Center drive machine tool. 3,015,976, 1–9–62, Cl. 82—14.
Johnson, Charles L. Vacuum switch. 3,024,329, 3–6–62, Cl. 200—87.
Johnson, Charles M., to Johnson Mfg. Co. Scraper drive and mounting. 3,059,714, 10–23–62, Cl. 180—14.
Johnson, Charles R. : *See*—
Davis, Clyde O., Johnson, and Ver Bryck. 3,062,158.
Ferris, Arthur F., and Johnson. 3,031,490.
Grabowski, Edward W., and Johnson. 3,028,937.
Johnson, Charles W., to General Electric Co. Electronic current follower. 3,015,730, 1–2–62, Cl. 250—202.
Johnson, Charles W., to Johnson Gas Appliance Co. Heater for animal pens and the like. 3,028,097, 4–3–62, Cl. 237—14.
Johnson, Charley E. : *See*—
Brainard, Gustave C., and Johnson. 3,050,895.
Johnson, Chrest B., Jr. : *See*—
Hubbert, Marion K., Smtih, and Johnson. 3,046,601.
Johnson, Christopher L. : *See*—
Jubb, Albert, and Johnson. 3,056,259.
Johnson, Clair A., to Western Electric Co., Inc. Work securing and locating device. 3,039,332, 6–19–62, Cl. 77—62.
Johnson, Clarence A., to Standard Packaging Corp. Condiment dispenser. 3,023,938, 3–6–62, Cl. 222—478.
Johnson, Clarence E. Endless cutting assembly. 3,029,584, 4–17–62. Cl. 56—291.
Johnson, Clarence E., and H. W. Detert, to Spaulding Fibre Co., Inc. Automatic feeder for shoe counter moulding presses. 3,044,085, 7–17–62, Cl. 12—66.
Johnson, Clarence L., and W. A. Reed, to Lockheed Aircraft Corp. Rocket nose installation. 3,026,773, 3–27–62, Cl. 89—1.7.
Johnson, Clas E., and F. C. Klingelhofer. Fire chute arrangement. 3,027,966, 4–3–62, Cl. 182—49.
Johnson, Claude W. : *See*—
Adams, Myron D., Johnson, Chojnowski, Eisner, Elich, and Glick. 3,057,956.
Johnson, Clifford E. : *See*—
Supitilov, Michael C., Johnson, and Norton. 3,061,873.
Johnson, Conway A., to Automotive Rubber Co., Inc. Electropolishing apparatus. 3,063,928, 11–13–62, Cl. 204—206.
Johnson Corp., The : *See*—
Hieronymus, John W. 3,034,225.
Johnson, Curtiss S., Jr., to Emhart Mfg. Co. Carton opening mechanism. 3,057,267, 10–9–62, Cl. 93—53.
Johnson, David A., and E. J. Richardson, Jr., to Bristol-Myers Co. Method for ortho aralkylation of phenol. 3,015,676, 1–2–62, Cl. 260—619.
Johnson, David E. : *See*—
Bostock, William T., Jr., and Johnson. 3,064,827.
Johnson, David M., to Westinghouse Electric Corp. Articleforming device. 3,048,201, 8–7–62, Cl. 140—71.5.
Johnson, Dean T. : *See*—
McWhorter, Bobby J., and Johnson. 3,016,591.
Johnson, Don E. Collapsible combination sawhorse and tool carrier. 3,016,104, 1–9–62, Cl. 182—129.

Johnson, Donald B. : *See—*
Bray, Donald L., and Johnson. 3,061,852.

Johnson, Donald D., R. Flores, and M. J. Vogel, to International Business Machines Corp. Composition of epoxide resin methylol phenol ether, polyvinyl methyl ether, and acid anhydride catalyst, and metal substrate coated therewith, especially a magnetic signal storage device. 3,058,844, 10–16–62, Cl. 117—132.

Johnson, Donald E., and E. Barany. Automatic locking ratchet action ski binder. 3,049,734, 8–21–62, Cl. 9—310.

Johnson, Donald L. : *See—*
Blair, Richard W., Johnson, and Morley. 3,053 593.

Johnson, Douglas O. : *See—*
Sharp, Chester L. 3,036,874.

Johnson, Dow W. : *See—*
Wright, Alvia D. 3,029,073.

Johnson, Edgar J., to Radio Corp. of America. Electrostatic charging. 3,038,073, 6–5–62, Cl. 250—49.5.

Johnson, Edward, and E. Leiss, to Lever Bias Machine Corp. Machines for slicing or cutting work at predetermined positions therealong. 3,068,729, 12–18–62, Cl. 82—21.

Johnson, Edward E., Inc. : *See—*
Williams, Howard O. 3,056,459.

Johnson, Edward O., to Radio Corp. of America. Auxiliary discharge gas amplifier and the like. 3,017,533, 1–16–62, Cl. 313—189.

Johnson, Edward O., to Radio Corp. of America. Low temperature devices and circuits. 3,025,416, 3–13–62, Cl. 307—88.5.

Johnson, Eldon A., to ACF Industries, Inc. Multiple pump. 3,036,524, 5–29–62, Cl. 103—4.

Johnson, Eldon A., to ACF Industries, Inc. Fuel supply for internal combustion engine. 3,039,748, 6–19–62, Cl. 261—36.

Johnson, Eldon A., and J. M. White, to ACF Industries Inc. Fuel pump diaphragm mounting. 3,021,792, 2–20–62, Cl. 103—150.

Johnson, Ellis A. Pressure measuring and recording system. 3,026,729, 3–27–62, Cl. 73—398.

Johnson, Ellsworth L., to International Business Machines Corp. Checking circuit. 3,045,212, 7–17–62, Cl. 340—172.5.

Johnson, Ellsworth T. : *See—*
Young, William A., and Johnson. 3,046,723.

Johnson, Ellsworth T., to Deere & Co. Mower attachment. 3,018,598, 1–30–62, Cl. 56—25.

Johnson, Ellsworth T., and C. B. Peak, to Deere & Co. Tractor-mounted mower. 3,031,829, 5–1–62, Cl. 56—25.

Johnson, Elmer E. Article holding device. 3,054,510, 9–18–62, Cl. 211—86.

Johnson, Elmer T. : *See—*
Reach, Roy W., Jr., Johnson, and Lourie. 3,064,140.

Johnson, Emil M., to Producto Machine Co. Machine punch having ejector pin retaining means. 3,063,319, 11–13–62, Cl. 83—698.1.

Johnson, Ernest E., to Blue Valley Machine & Mfg. Co. Metal plate flanging machine. 3,016,942, 1–16–62, Cl. 153—4.

Johnson, Ernest F., to United States of America, Atomic Energy Commission. Heat transfer and tritium producing system. 3,037,922, 6–5–62, Cl. 204—154.2.

Johnson, Ernest G. : *See—*
Thomsen, Max M., and Johnson. 3,069,541.

Johnson, Ernest S., deceased ; Wachovia Bank & Trust Co., executor. Method and apparatus for the manufacture of particle board. 3,032,820, 5–8–62, Cl. 18—47.5.

Johnson-Fagg Engineering Co. : *See—*
Sharp, Chester L. 3,036,874.

Johnson Fare Box Co. : *See—*
Damon, Robert H. 3,052,403.

Johnson, Forrest A., and H. E. Miller, to Ex-Cell-O Corp. Apparatus for maintaining a predetermined air gap between a transducer head and a record medium in a magnetic data storage device. 3,056,962, 10–2–62, Cl. 346—74.

Johnson, Francis, to The Dow Chemical Co. Preparation of glutarimide compounds. 3,058,983, 10–16–62, Cl. 260—281.

Johnson, Francis B. : *See—*
Der Yuen, Frank, and Johnson. 3,060,471.

Johnson, Francis M., to United States of America, Air Force. Multipurpose safety for igniter circuits. 3,018,733, 1–30–62, Cl. 102—70.2.

Johnson, Francis M., to United States of America, Air Force. Chaff tape cutter. 3,027,047, 3–27–62, Cl. 221—30.

Johnson, Frank E., Sr., to United-Carr Fastener Corp. Fastening device. 3,045,309, 7–24–62, Cl. 24—216.

Johnson, Frank L. Protective devices for dogs. 3,036,554, 5–29–62, Cl. 119—96.

Johnson, Fred. Child's teeter. 3,051,481, 8–28–62, Cl. 272—54.

Johnson, Frederick W., to Collins Radio Co. Uniform trolley loading in a coil. 3,020,507, 2–6–62, Cl. 338—143.

Johnson, Frithiof V., and H. H. P. Lemmerman, to General Electric Co. Gyroscope. 3,060,752, 10–30–62, Cl. 74—5.6.

Johnson Gage Development Co., The : *See—*
Johnson, Paul W. 3,048,926.

Johnson Gas Appliance Co. : *See—*
Johnson, Charles W. 3,028,097.

Johnson, George : *See—*
Johnson, Lawrence A. 3,061,920.

Johnson, George F., and L. C. Teague, to Shell Oil Co. Stabilization of 3,4-dihydro-1,2-pyran-2-carboxaldehyde. 3,062,838, 11–6–62, Cl. 260—345.9.

Johnson, George L., to General Electric Co. Production of direct and delayed pulses in respective circuits each having level-setting clamps. 3,047,734, 7–31–62, Cl. 307—88.5.

Johnson, George N., and C. L. Vice, to Minnesota Mining and Mfg. Co. Magnetostructure recording device. 3,016,429, 1–9–62, Cl. 179—100.2.

Johnson, George T., to Shafer Valve Co. Hydraulic latch system for fluid motor operator. 3,055,345, 9–25–62, Cl. 121—40.

Johnson, Glen A., to Stant Mfg. Co , Inc. Pressure tester. 3,035,435, 5–22–62, Cl. 73—40.

Johnson, Glen A., to Stant Mfg. Co., Inc. Attachment assembly for pressure tester. 3,035,436, 5–22–62, Cl. 73—40.

Johnson, Glen R., and C. B. Rogers, to Clark Equipment Co. Method and means for handling freight. 3,040,914, 6–26–62, Cl. 214—38.

Johnson, Glenn, Jr. : *See—*
Drackett, Myron J., Jensen, and Johnson. 3,039,635.

Johnson, Gordon, Co. : *See—*
Zebarth, Ralph S. 3,022,646.
Zebarth, Ralph S. 3,031,823.
Zebarth, Ralph S. 3,043,319.
Zebarth, Ralph S. 3,056,161.
Zebarth, Ralph S. 3,064,584.

Johnson, Grady L., Convertible chair and sleeping berths. 3,057,662, 10–9–62, Cl. 297—463.

Johnson, Graham H., to McGraw-Edison Co. Surge generator. 3,062,974, 11–6–62, Cl. 307—108.

Johnson, Grannis S. : *See—*
Ferris, Arthur P., and Johnson. 3,031,511.

Johnson, Grannis S., and F. E. Gould, to FMC Corp. Synthesis of esters of omega-cyano-alpha-oximino carboxylic acids. 3,059,018, 10–16–62, Cl. 260—465.4.

Johnson, Harold B. Reply letter sheet. 3,027,067, 3–27–62, Cl. 229—86.

Johnson, Harold D. and R. W., to General Implement Corp. Vaporizer for preventing frost damage to agricultural crops. 3,055,144, 9–25–62, Cl. 47—2.

Johnson, Harold K. Intermittent electrical switch. 3,053,-949, 9–11–62, Cl. 200—61.49.

Johnson, Harold L., to Giddings & Lewis Machine Tool Co. Block type tool with throw-away inserts. 3,060,771, 10–30–62. Cl. 77—58.

Johnson, Harold T. Paint-can shaker. 3,018,092, 1–23–62, Cl. 259—54.

Johnson, Harry H. Bathing aids. 3,061,841, 11–6–62, Cl. 4—158.

Johnson, Harry V., and F. P. Kirkhart, to Union Carbide Corp. Electrode joint. 3,048,434, 8–7–62, Cl. 287—127.

Johnson, Harwick : *See—*
Wallmark, John T., and Johnson. 3,038,085.

Johnson, Helen M. : *See—*
Johnson, John B. 3,028,154.

Johnson, Herbert C., to United States of America, Air Force. Unitized statistical accelerometer. 3,049,015, 8–14–62, Cl. 73—489.

Johnson, Herbert E., to Union Carbide Corp. Synthesis of 3-indolealkanoic acids. 3,047,585, 7–31–62, Cl. 260—319.

Johnson, Herbert E., to Union Carbide Corp. Process for the production of 3-indolepropionic acids. 3,062,832, 11–6–62, Cl. 260—319.

Johnson, Herbert L., and G. G. Eberhardt, to Sun Oil Co. Preparation of diols. 3,035,077, 5–15–62, Cl. 260—448.

Johnson, Herbert L., H. E. Reif, and A. Schneider, to Sun Oil Co. Hydrorefining of waxy petroleum residues. 3,052,-622, 9–4–62, Cl. 201—27.

Johnson, Herbert S., and J. Reid, to Shawinigan Chemicals Ltd. Process for preparation of carbon disulphide. 3,034,-863, 5–15–62, Cl. 23—206.

Johnson, Herman H. Temperature-humidity index indicator. 3,048,038. 8–7–62. Cl. 73—338.

Johnson, Herman K., to The Bastian-Blessing Co. Drink dispenser. 3,069,871, 12–25–62, Cl. 62—390.

Johnson, Hilton W. Car top boat carrier and the like. 3,066,-815, 12–4–62, Cl. 214—450.

Johnson, Horace A., to Borg-Warner Corp. Stop collar device. 3,017,206, 1–16–62, Cl. 287—52.08.

Johnson, Irving : *See—*
Martin, Allan E., Johnson, Burris, Winsch, and Feder. 3,063,830.

Johnson, James : *See—*
Mueller, Richard J., and Johnson. 3,059,450.

Johnson, James. Attachable fixture for converting a motor powered reciprocating saw into a routing tool. 3,024,817, 3–13–62, Cl. 144—27.

Johnson, James F., to Sinclair Oil & Gas Co. Photoelectric scanning method and apparatus. 3,033,990, 5–8–62, Cl. 250—219.

Johnson, James F., to Automatic Canteen Co. of America. Brewing apparatus. 3,070,000, 12–25–62, Cl. 99—289.

Johnson, James H., to Olin Mathieson Chemical Corp. Firearms extractor-ejector assembly. 3,021,634, 2–20–62, Cl. 42—25.

Johnson, James H., to Dresser Industries, Inc. Force-transmitting device. 3,033,525, 5–8–62, Cl. 254—107.

Johnson, James L. : *See—*
Armi, Edgar L., Johnson, Machler, and Polster. 3,062,047.

Johnson, James N., and J. E. McCanse, to Deere & Co. Power loader. 3,070,246, 12–25–62, Cl. 214—146.

Johnson, James V., Jr., O. K. Groppe, K. Hubbitts, and M. E. Phillips, Jr., to American Machine & Foundry Co. Automatic cigarette catcher. 3,019,574, 2–6–62, Cl. 53—35.

Johnson, Jarl A., 33⅓ to V. J. McCoy. Portable sound reproducing apparatus. 3,042,749, 7–3–62, Cl. 179—1.

Johnson, Jerome A., and G. R. Madland, to Motorola, Inc. Voltage converter. 3,070,737, 12–25–62, Cl. 321—2.

Johnson, Jess A. Appliance cord reel. 3,056,863, 10–2–62, Cl. 191—12.4.

Johnson, Jesse R., to Knowles-Fisher Corp. Valve and sealing means therefor. 3,058,718, 10–16–62, Cl. 251—214.

Johnson, John A., and G. R. Kennedy, to ACF Industries, Inc. Cushioning assembly. 3,047,163, 7–31–62, Cl. 213—40.

Johnson, John B., deceased; H. M. Johnson, executrix. Cutting and bevelling tool. 3,028,154, 4–3–62, Cl. 266—23.

Johnson, John D.: *See*—
Ward, Paul J., Johnson, and Robertson. 3,061,442.

Johnson, John F., to National Distillers and Chemical Corp. Apparatus for slitting tubular sheet materials. 3,068,730, 12–18–62, Cl. 83—184.

Johnson, John G., to Deere & Co. Tractor. 3,057,428, 10–9–62, Cl. 180—69.

Johnson, John Gerard, to Planetary Lock Co. Ltd. Keyless lock. 3,064,463, 11–20–62, Cl. 70—156.

Johnson, John H.: *See*—
Fields, Joseph E., and Johnson. 3,022,261.

Johnson, John H. Apparatus for boring holes. 3,026,950, 3–27–62, Cl. 175—161.

Johnson, John H., and J. E. Fields, to Monsanto Chemical Co. Phosphorylated polyvinyl alcohol products and method of producing said products. 3,068,061, 12–11–62, Cl. 18—54.

Johnson, John J. Device for reforming diamond saw blades. 3,026,747, 3–27–62, Cl. 76—25.

Johnson, John M. Equipment handling device. 3,040,908, 6–26–62, Cl. 214—1.

Johnson, John O. Container means. 3,052,214, 9–4–62, Cl. 119—1.

Johnson, John R., to Owens-Illinois Glass Co. Method and apparatus for controlling distribution of plastic coatings on articles. 3,060,057, 10–23–62, Cl. 117—54.

Johnson, John R., to Owens-Illinois Glass Co. Positive assist for loading articles to a chuck. 3,067,861, 12–11–62, Cl. 198—179.

Johnson, John R., and R. A. Kurtz, to Owens-Illinois Glass Co. Device for marking containers. 3,025,786, 3–20–62, Cl. 101—44.

Johnson & Johnson: *See*—
Alden, Harry E. 3,055,606.
Bergstedt, Milton A. 3,058,704.
Berryman, William L., and Schwartz. 3,056,493.
Bird, William H. 3,064,456.
Brickman, Leo, and Edenbaum. 3,043,298.
Burgeni, Alfred A., and Simkevich. 3,067,745.
Castelli, Charles, and Ring. 3,036,572.
Chesnut, James A. 3,015,385.
Dabroski, Winifred C. 3,067,057.
Dunlap, Isaac R. 3,055,496.
Gershen, Irvin J. 3,034,691.
Gordon, William J. J., Lincoln, and Sperry. 3,035,299.
Hawthorne, Kenneth B., and Maguire. 3,045,835.
Klug, William J., Jr. 3,024,152.
Korpman, Ralf. 3,068,117.
Lavanchy, Patricia. 3,051,588.
Liloia, Gerald J., Crowe, and Beidler. 3,051,171.
Liloia, Gerald J., Crowe, and Beidler. 3,053,253.
Lo, Elizabeth S. 3,015,647.
Lo, Elizabeth S. 3,015,648.
Masci, Joseph N., and Poirier. 3,055,836.
Mayer, Joseph W. 3,038,676.
Morin, George. 3,062,370.
Nashed, Wilson. 3,041,239.
Painter, Erle V., and Shepherd. 3,049,000.
Plantinga, Oliver S., and Tezwella. 3,043,301.
Schiff, Norman. 3,019,999.
Schwartz, Morris A. 3,070,225.
Schwartz, Morris A., and Schaefer. 3,022,618.
Scrivens, George W., and Trewella. 3,061,087.
Smith, Richard M. 3,052,566.
Warnsdorfer, Clifford J., Jr. 3,030 329.
Warnsdorfer, Clifford J., Jr., Ferenczy, and Babiy. 3,057,536.
Weschler, Joseph R. 3,068,121.
Wilburn, Edgar H. Re. 25,113.

Johnson, Joseph L. Sweep type liquid fertilizer tine. 3,038,424, 6–12–62, Cl. 111—7.

Johnson, Junius P. Satellite locator. 3,028,687, 4–10–62, Cl. 35—46.

Johnson, Kalin S., to Holley Carburetor Co. Ignition contact set. 3,033,947, 5–8–62, Cl. 200—30.

Johnson, Kalin S., and R. K. Frank, to Holley Carburetor Co. Automatic spark advance mechanism. 3,051,150, 8–28–62, Cl. 123—117.

Johnson, Keith A., to Ampex Corp. Tape driving apparatus. 3,045,938, 7–24–62, Cl. 242—55.12.

Johnson, Keith O., to Ampex Corp. Tape driving apparatus. 3,045,937, 7–24–62, Cl. 242—55.12.

Johnson, Kenneth E., to Atlas Scraper and Engineering Co. Ditcher apparatus. 3,035,360, 5–22–62. Cl. 37—98.

Johnson, Kenneth G. Game. 3,042,408, 7–3–62, Cl. 273—135.

Johnson, Kenneth M., and W. J. MacFarlane, to The Stanley Works. Latch assembly for surface-mounted doors. 3,041,-098, 6–26–62, Cl. 292—78.

Johnson, Lawrence A., ½ to G. Johnson. Method of assembling members. 3,061,920, 11–6–62, Cl. 29—445.

Johnson, Lenard H.: *See*—
Boice, Frank S., and Johnson. 3,051,926.

Johnson, Leonard L.: *See*—
Hitt, Otis D., Knapp, Johnson, and Rosenblum. 3,018,673.

Johnson, Le Roy E.: *See*—
Bergy, Malcolm E., De Boer, Dietz, Ebie, Herr, and Johnson. 3,027,300.

Johnson, Le Roy E., and C. C. Sperry, to The Upjohn Co. Interrelated tool and work conveyer drives for a disc punch. 3,043,176, 7–10–62, Cl. 83—109.

Johnson, Leslie A., and W. E. Shreffler, to Westinghouse Electric Corp. Control mechanism for providing a selected one of a plurality of selectable programs of operations. 3,031,590, 4–24–62, Cl. 307—141.

Johnson, Leslie W., to Deere & Co. Power actuated hitch device. 3,023,817, 3–6–62, Cl. 172—274.

Johnson, Leslie W., to Deere & Co. Cotton planter. 3,046,-916, 7–31–62, Cl. 111—59.

Johnson, Lester B., to United-Carr Fastener Corp. Tube shield and ground strap structure. 3,017,596, 1–16–62, Cl. 339—14.

Johnson, Linwood E.: *See*—
Saur, Albert J., McCarty, and Johnson. 3,031,393.

Johnson, Lloyd E.: *See*—
Denison, Henry W., and Johnson. 3,023,978.
Denison, Henry W., and Johnson. 3,026,058.

Johnson, Lloyd E., to Caterpillar Tractor Co. Centripetal turbine. 3,063,673, 11–13–62, Cl. 253—55.

Johnson, Lloyd L. Feed flow adjusting mechanism. 3,030,-919, 4–24–62, Cl. 119—53.

Johnson, Logan W. Model trimmer. 3,064,400, 11–20–62, Cl. 30—267.

Johnson, Loran L., to Tulsa Railway Seal Manufacturers, Inc. Dust guard and seal for railroad car journal boxes. 3,069,179, 12–18–62, Cl. 277—130.

Johnson, Loren G. Angle stop. 3,035,602, 5–22–62, Cl. 137—315.

Johnson Mfg. Co.: *See*—
Johnson, Charles M. 3,059,714.

Johnson, Marvin M., to Phillips Petroleum Co. Process and apparatus for the oxidative dehydrogenation of organic compounds. 3,049,574, 8–14–62, Cl. 260—666.

Johnson, Marvin M., to Phillips Petroleum Co. Jet engine combustion processes. 3,055,172, 9–25–62, Cl. 60—35.4.

Johnson, Marvin M., and R. M. Schirmer, to Phillips Petroleum Co. Jet engine combustion process. 3,049,872, 8–21–62, Cl. 60—35.4.

Johnson, Mayce V., Jr., and D. C. Savage, to Sunkist Growers, Inc. Printing machine. 3,063,365, 11–13–62, Cl. 101—37.

Johnson, Melvin L.: *See*—
McKenzie, Eugene L., and Johnson. 3,034,406.

Johnson, Melvin S., 45% to R. M. Underwood, 5% to J. E. Kalson, and 5% to W. R. Kalson. Coffee maker. 3,066,-597, 12–4–62, Cl. 99—282.

Johnson, Metzi R. Dual hydraulic brake ssytem. 3,066,489, 12–4–62, Cl. 60—54.6.

Johnson, Miles C.: *See*—
Burke, Thomas J., and Johnson. 3,049,649.

Johnson, Miles C., and T. J. Burke, to United States of America, Navy. Error store and reset circuit. 3,046,524, 7–24–62, Cl. 340—147.

Johnson, Myron J.: *See*—
Berg, Calvin A., and Johnson. 3,030,558.

Johnson, Nels, to Simmons Co. Tufting method and apparatus. 3,016,852, 1–16–62, Cl. 112—262.

Johnson, Norman G.: *See*—
Coursen, David L., and Johnson. 3,062,313.

Johnson, Norman S.: *See*—
Griffiths, Edward G., and Johnson. 3,054,484.

Johnson, Oliver, to United States of America, Atomic Energy Commission. Separation of thorium from rare earth values in aqueous acidic solution by solvent extraction with an alkyl phosphate-oxygen containing organic diluent. 3,047,-601, 7–31–62, Cl. 260—429.1.

Johnson, Oliver D., and C. Holovka, Jr., to International Business Machines Corp. Web conditioning machine. 3,015,168, 1–2–62, Cl. 34—156.

Johnson, Oliver W., Jr.: *See*—
Rosenberger, Gerald B., and Johnson. 3,022,468.

Johnson, Orvel M. Tilting back mechanism. 3,015,520, 1–2–62, Cl. 297—371.

Johnson, Orville R.: *See*—
Holbrook, Herbert T., and Johnson. 3,054,551.

Johnson, Otho M.: *See*—
Wright, Alvia D. 3,029,073.

Johnson, Otis L., to Farnsworth-Johnson Corp. Structural element for buildings. 3,018,860, 1–30–62, Cl. 189—34.

Johnson, Paul C. Switch control. 3,024,339, 3–6–62, Cl. 200—172.

Johnson, Paul J. Method and means for disposing of metal cans. 3,027,445, 3–27–62, Cl. 219—50.

Johnson, Paul T., to General Motors Corp. Control mechanism for scraper bowl and apron. 3,061,954, 11–6–62, Cl. 37—129.

Johnson, Paul W., to The Johnson Gage Development Co. Wheel gage. 3,048,926, 8–14–62, Cl. 33—178.

Johnson, Peter D., to General Electric Co. Light sources. 3,054,013, 9–11–62, Cl. 313—108.

Johnson, Peter W. R., to Johnson Products, Inc. Leg assembly. 3,017,153, 1–16–62, Cl. 248—189.

Johnson, Peter W. R., to Johnson Products Inc. Work bench system with quick-disconnect legs. 3,017,231, 1–16–62, Cl. 311—110.

Johnson, Philip A. Empty-sensing and pump apparatus for liquid vending machines. 3,055,551, 9–25–62, Cl. 222—63.

Johnson, Philip L.: *See*—
Wayman, Paul B., and Johnson. 3,045,722.

Johnson, Philip L., and V. E. Wilfong, to Fisher Governor Co. Lock type excess flow valve. 3,032,067, 5–1–62, Cl. 137—630.

Johnson Products, Inc.: *See*—
Bergmann, Paul F. Re. 25,154.
Dadd Morris V. 3,059,627.
Johnson, Peter W. R. 3,017,153.
Johnson, Peter W. R. 3,017,231.

Johnson, Ralph A., Jr.: *See*—
Ahara, Edward V., Johnson, DeGroot, and Stalmuke. 3,011,125.

Johnson, Ralph E., to The Singer Mfg. Co. Attachment guiding device for sewing machines. 3,018,743, 1–30–62, Cl. 112—102.

Johnson, Ralph E., to The Singer Mfg. Co. Spool winding mechanism for sewing machines. 3,021,801, 2–20–62, Cl. 112—218.

Johnson, Ralph E., to The Singer Mfg. Co. Needle guards for sewing machine loop takers. 3,023,721, 3–6–62, Cl. 112—184.

Johnson, Ralph E., to The Singer Mfg. Co. Sewing machine feeding mechanism. 3,023,722, 3–6–62, Cl. 112—210.

Johnson, Ralph E., to The Singer Mfg. Co. Zigzag mechanisms for sewing machines. 3,026,831, 3–27–62, Cl. 112—158.

Johnson, Ralph E., to The Singer Mfg. Co. Bracket-arm design for zigzag sewing machines. 3,027,857, 4–3–62, Cl. 112—258.

Johnson, Ralph E. Golf club with sighting means. 3,042,409, 7–3–62, Cl. 273—164.

Johnson, Ralph E., to Singer Mfg. Co. Loop taker for sewing machines. 3,049,086, 8–14–62, Cl. 112—193.

Johnson, Ralph E., to The Singer Mfg. Co. Zigzag sewing machines. 3,051,107, 8–28–62, Cl. 112—158.

Johnson, Ralph E., to The Singer Mfg. Co. Cam mounting means for zigzag sewing machines. 3,057,311, 10–9–62, Cl. 112—158.

Johnson, Ralph E., to The Singer Mfg. Co. Sewing machine throat plate fastening means. 3,060,878, 10–30–62, Cl. 112—260.

Johnson, Ralph W., Jr.: *See*—
Berkson, Herbert D. 3,057,142.

Johnson, Raymond C.: *See*—
Korpi, Karl J., and Johnson. 3,015,555.
Korpi, Karl J., and Johnson. 3,015,536.
Korpi, Karl J., and Johnson. 3,015,557.

Johnson, Raymond G., to Federal-Mogul-Bower Bearings, Inc. Method of assembling roller bearings. 3,057,045, 10–9–62, Cl. 29—148.4.

Johnson, Raymond K., to Collins Radio Co. Coupling mechanism. 3,031,866, 5–1–62, Cl. 64—27.

Johnson, Raymond L., to The New Jersey Zinc Co. Production of titanium. 3,054,735, 9–18–62, Cl. 204—64.

Johnson, Raymond R.: *See*—
Ludwig, Mike, Jr., and Johnson. 3,042,950.

Johnson, Rayner S.: *See*—
Goblel, Richard J., Johnson, and Luckenbaugh. 3,020,145.

Johnson, Reginald F.: *See*—
Baumgarten, Werner, and Johnson. 3,042,587.

Johnson, Reuben N. Mug tray. 3,036,717, 5–29–62, Cl. 211—88.

Johnson, Reynold B., and J. J. Hagopian, to International Business Machines Corp. Transmitting typewriter apparatus. 3,018,332, 1–23–62, Cl. 178—17.

Johnson, Richard C., and J. W. Sawyer. Electro-chemical machining system. 3,046,206, 7–24–62, Cl. 204—143.

Johnson, Richard H. to Stone Container Corp. Book mailing folder. 3 055,574, 9–25–62, Cl. 229—40.

Johnson, Richard S.: *See*—
Brehm, Richard J., and Johnson. 3,065,743.

Johnson, Robert: *See*—
Campbell, Charles R., Chapman, and Johnson. 3,017,331.
Chapman, Richard D., Campbell, and Johnson. 3,023,238.

Johnson, Robert, to H. K. Porter Co. Inc. Duct outlet with adjustment for floor level. 3,025,884, 3–20–62, Cl. 138—92.

Johnson, Robert, to H. K. Porter Co., Inc. Multireceptacle electric system with compound ground. 3,058,204, 10–16–62, Cl. 339—14.

Johnson, Robert A.: *See*—
Kowalik, John J., Syrutowicz, and Johnson. 3,066,468.

Johnson, Robert B., to Eastman Kodak Co. Film transport system for sound recording and reproducing devices. 3,062,924, 11–6–62, Cl. 179—100.3.

Johnson, Robert D. Linoleum puller. 3,061,351, 10–30–62, Cl. 294—64.

Johnson, Robert E.: *See*—
Buzicky, Edmund J., Johnson, Hilmanowski, and Mlinar. 3 058,641.
Elliott, Harold V., Bates, and Johnson. 3,030,459.

Johnson, Robert E., to Whirlpool Corp. Timer control apparatus. 3,032,618, 5–1–62, Cl. 200—38.

Johnson, Robert E., to Jervis Corp. Hinge device. 3,065,498, 11–27–62, Cl. 16—166.

Johnson, Robert F., to R. M. Johnson. Sail boat safety device. 3,016,858, 1–16–62, Cl. 114—39.

Johnson, Robert F., to R. M. Johnson. Sail boat safety device. 3,016,859, 1–16–62, Cl. 114—39.

Johnson, Robert F., to R. M. Johnson. Sail boat safety device. 3,016,860, 1–16–62, Cl. 114—39.

Johnson, Robert G.: *See*—
Dungan, Robert H., and Johnson. 3,065,533.

Johnson, Robert H., to General Electric Co. Vortex type combustion with means for supplying secondary air. 3,030,773, 4–24–62, Cl. 60—39.65.

Johnson, Robert H., to General Electric Co. Hypersonic wind tunnel test section. 3,035,439, 5–22–62, Cl. 73—147.

Johnson, Robert K., and R. J. Cieconi, to Aer-O-Torq Inc. Driving tool for recessed head screws. 3,037,539, 6–5–62, Cl. 145—50.

Johnson, Robert L.: *See*—
Moyle, Clarance L., and Johnson. 3,033,746.
Moyle, Clarence L., and Johnson. 3,062,710.

Johnson, Robert L. Foamed epoxy resins and process of preparing same. 3,028,344, 4–3–62, Cl. 260—2.5.

Johnson, Robert L. Polyurethane composition containing an α-metallo-metallic salt of a monocarboxylic acid and method for preparing same. 3,028,345, 4–3–62, Cl. 260—2.5.

Johnson, Robert M.: *See*—
Boyce, William C., and Johnson. 3,045,957.
Johnson, Robert F. 3,016,858.
Johnson, Robert F. 3,016,859.
Johnson, Robert F. 3,016,860.

Johnson, Robert R., to Hughes Aircraft Co. Electronic scanning. 3,030,581, 4–17–62, Cl. 328—43.

Johnson, Robert R., to H. E. Aine and A. Leinwohl. Miniature radio beacon apparatus. 3,068,415, 12–11–62, Cl. 325—104.

Johnson, Robert W.: *See*—
Johnson, Harold D. and R. W. 3,055,144.

Johnson, Robert W., and C. C. Wright, to United States of America, Atomic Energy Commission. Method and apparatus for determining amalgam decomposition rate. 3,031,385, 4–24–62, Cl. 204—1.

Johnson, Roger A., to E. I. du Pont de Nemours and Co. Yellow azo pigment. 3,032,546, 5–1–62, Cl. 260—193.

Johnson, Ronald L.: *See*—
Hoy, Herbert R., Wilkins, and Johnson. 3,016,566.

Johnson, Rufus F. Toe guard. 3,050,057, 8–21–62, Cl. 128—153.

Johnson, S. C., & Son, Inc.: *See*—
Greenlee, Sylvan O. 3,047,627.
Greenlee, Sylvan O., and Pearce. 3,023,178.
Kitzke, Eugene D. 3,051,578.
Leeds, Harry R. 3,055,297.
Luedtke, Warren J., and Harris. 3,038,193.

Johnson, Scott R., to Continental Can Co., Inc. Can body forming machine. 3,040,798, 6–26–62, Cl. 153—54.

Johnson, Scott R., to Continental Can Co., Inc. Can body conveying means. 3,057,457, 10–9–62, Cl. 198—179.

Johnson Service Co.: *See*—
Holloway, Thomas M. 3,016,746.
Holloway, Thomas M. 3,042,062.
Scharpf, Otto. 3,047,233.
Scharpf, Otto. 3,069,088.

Johnson, Sigurd W., and J. P. Lauriello, to Radio Corp. of America. Color electrophotography. 3,060,019, 10–23–62, Cl. 96—1.

Johnson, Sigurd W., and J. P. Lauriello, to Radio Corp. of America. Method of fusing powder images. 3,060,051, 10–23–62, Cl. 117—17.5.

Johnson, Simon H.: *See*—
Loos, Robert A., and Johnson. 3,038,999.

Johnson, Sonald C.: *See*—
Biskup, John, and Johnson, and Wetterau. 3,068,118.

Johnson. Stanford E., and T. Bydalek, to Practical Tool & Engineering Co., Inc. Adjustable register for air flow. 3,045,580, 7–24–62, Cl. 98—107.

Johnson, Stanley A. Automatic indexing base for chucks and the like. 3,048,949, 8–14–62, Cl. 51—216.

Johnson, Stanley E., and W. E. Green, to United States of America, Army. Frequency discriminator circuit. 3,025,471, 3–13–62, Cl. 329—126.

Johnson, Stanley O., and T. E. Fairey, to United States of America, Atomic Energy Commission. Simulator. 3,028,091, 4–3–62, Cl. 235—184.

Johnson, Stuart E., to Carrier Corp. Absorption refrigeration systems and control arrangements therefor. 3,053,055, 9–11–62, Cl. 62—104.

Johnson, Stuart J., E. F. Bruns, and G. F. Whitman, to Barber-Colman Co. Machine for milling toothed rotary parts. 3,059,546, 10–23–62, Cl. 90—4.

Johnson, Sven H., and A. A. W. Holmstrom. Parking meter. 3,069,839, 12–25–62, Cl. 58—141.

Johnson, Theodore B.: *See*—
McCallum, John, Johnson, Ditmars, and McGraw. 3,033,910.

Johnson, Thomas H.: *See*—
Hayball, George D., Peterson, and Johnson. 3,052,861.

Johnson, Thomas W.: *See*—
Klemantaski, Sidney, Johnson, and Ridgion. 3,028,231.
Whitlock, Robert A., and Johnson. 3,049,237.

Johnson, Tomlinson F. Mechanism for opening or closing a switch by means of an electric motor. 3,026,388, 3–20–62, Cl. 200—92.

Johnson, Tomlinson F. Spring motor mechanism for fast automatic opening or closing of high tension electric switches. 3,043,924, 7–10–62, Cl. 200—48.

Johnson, Virgil E., Jr., to United States of America, National Aeronautics and Space Administration. Hydrofoil. 3,016,863, 1–16–62, Cl. 114—66.5.

Johnson, Virgil R., to Jersey Production Research Co. Single frequency prospecting. 3,066,754, 12–4–62, Cl. 181—.5.

Johnson, Virgil R., and J. D. Skeiton, to Jersey Production Research Co. Apparatus for processing seismic data. 3,047,836, 7–31–62, Cl. 340—15.5.

Johnson, Waldo O.: *See*—
Eskridge, Harold E., and Johnson. 3,015,839.
Eskridge, Harold E., and Johnson. 3,015,840.

Johnson, Wallace C.: *See*—
Reynolds, Richard W., and Johnson. 3,015,157.

Johnson, Wallace C., to Arcos Corp. Process and apparatus for arc welding. 3,022,413, 2–20–62, Cl. 219—73.

Johnson, Wallace C., to Arcos Corp. Process of electric arc welding, machine and weld insert. 3,042,790, 7–3–62, Cl. 219—73.

Johnson, Wallace C., to Olin Mathieson Chemical Corp. Finned heat exchanger. 3,067,492, 12–11–62, Cl. 29—157.3.

Johnson, Wallace C., and S. H. Butt, to Olin Mathieson Chemical Corp. Fabrication of hollow articles. 3,045,330, 7–24–62, Cl. 29—157.3.

Johnson, Wallace M. L. Collapsible wire mesh cage. 3,058,445, 10–16–62, Cl. 119—17.

Johnson, Walter C.: *See*—
Brinster, John F., and Johnson. 3,052,871.

Johnson, Walter E. Apparatus for inducing the flow of pulverized material. 3,036,745, 5–29–62, Cl. 222—411.

Johnson, Walter E. Mobile crane. 3,061,113, 10–30–62, Cl. 212—145.

Johnson, Walter E. Mobile crane construction. 3,062,386, 11–6–62, Cl. 212—145.

Johnson, Walter G.: *See*—
Lasch, Cecil A., Jr., and Johnson. 3,050,617.

Johnson, Walter J.: *See*—
Cox, Arthur, and Johnson. 3,044,355.
Cox, Arthur, and Johnson. 3,044,356.
Cox, Arthur, and Johnson. 3,059,535.
Cox, Arthur, and Johnson. 3,059,536.
Harris, Thomas L. and Johnson. 3,038,378.

Johnson, Walter J., and I. C. Sandback, to Bell & Howell Co. Optical objective. 3,065,671, 11–27–62, Cl. 88—57.

Johnson, Walter T.: *See*—
Barnet, Frederick R., Johnson, and Prosen. 3,026,802.

Johnson, Warren B. Close cutting cultivator. 3,045,764, 7–24–62, Cl. 172—191.

Johnson, Wayne R., to Minnesota Mining and Mfg. Co. Color stabilizing video tape reproducing system. 3,016,415, 1–9–62, Cl. 178—6.6.

Johnson, Wayne R., to Minnesota Mining and Mfg. Co. Magnetic transducing system. 3,016,416, 1–9–62, Cl. 178—6.6.

Johnson, Wayne R., to Minnesota Mining and Mfg. Co. Transducing system. 3,017,457, 1–16–62, Cl. 178—6.

Johnson, Wayne R., to Minnesota Mining and Mfg. Co. Speed regulating apparatus for recording media. 3,046,463, 7–24–62, Cl. 318—302.

Johnson, Wayne R., to Minnesota Mining and Mfg. Co. Transducing system using controlled delay lines. 3,049,589, 8–14–62, Cl. 178—6.6.

Johnson, Wayne R., to Minnesota Mining and Mfg. Co. Transducing system. 3,049,595, 8–14–62, Cl. 179—100.2.

Johnson, Wayne R., to Minnesota Mining and Mfg. Co. Transducing system. 3,051,797, 8–28–62, Cl. 179—100.2.

Johnson, Wayne R., to Minnesota Mining and Mfg. Co. Magnetostrictive transducer for the recording and reproducing of magnetic information. 3,053,941, 9–11–62, Cl. 179—100.2.

Johnson, Wayne R., to Minnesota Mining and Mfg. Co. Graphic recording system. 3,054,108, 9–11–62, Cl. 346—74.

Johnson, Wayne R., to Minnesota Mining and Mfg. Co. Single frame tester. 3,059,049, 10–16–62, Cl. 178—6.6.

Johnson, Wayne W., K. H. Kimball, and D. E. Douglass, to United States of America, Navy. CO_2 scrubber. 3,042,497, 7–3–62, Cl. 23—260.

Johnson, Werner E., and R. J. Schmelzkopf, to Hough Mfg. Corp. Production of accordion type folding doors. 3,056,193, 10–2–62, Cl. 29—407.

Johnson, Wesley N., to Abbott Laboratories. Shipping and/or dispensing container. 3,066,843, 12–4–62, Cl. 229—17.

Johnson, Wesley R., and D. O. Larson, to Sperry Rand Corp. Transducer mounting. 3,023,279, 2–27–62, Cl. 179—100.2.

Johnson, Wilbert E.: *See*—
Possis, Zinon C., Johnson, and Straub. 3,063,475.
Possis, Zinon C., Johnson, and Straub. 3,065,771.
Possis, Zinon C., Straub, Lobash, Johnson, and Solem. 3,063,212.

Johnson, Wilbur E.: *See*—
Henson, Walter A., Helmreich, and Johnson. 3,061,559.

Johnson, Willard J. N-acetyl-p-aminophenol antiinflammatory steroid compositions. 3,053,737, 9–11–62, Cl. 167—77.

Johnson, William A.: *See*—
Hurford, Walter J., Gordon, and Johnson. 3,070,527.

Johnson, William A., to Western Electric Co., Inc. Cutover mechanisms for strand-reeling installations. 3,051,403, 8–28–62, Cl. 242—25.

Johnson, William A., and J. R. Short. Chicken feeder. 3,015,307, 1–2–62, Cl. 119—61.

Johnson, William K., to Monsanto Chemical Co. Preparation of trialkyltin halides and tetraalkyltin compounds. 3,036,-103, 5–22–62, Cl. 260—429.7.

Johnson, William R., and J. C. Wygant, to Monsanto Chemical Co. Alkyl aluminum salts of organic acids and preparation thereof. 3,057,900, 10–9–62, Cl. 260—448.

Johnson, William P.: *See*—
Cross, Ralph C., and Johnson. 3,040,910.

Johnson, William R., to Monsanto Chemical Co. Process for the production of cyanuric chloride. 3,070,601, 12–25–62, Cl. 260—248.

Johnson, William R., and E. L. West, to Metal Buildings, Inc. Prefabricated building. 3,054,481, 9–18–62, Cl. 189—2.

Johnson, William R., and D. T. Oakes, to Monsanto Chemical Co. Clay beneficiation. 3,070,544, 12–25–62, Cl. 252—8.5.

Johnson, William S., and W. F. Johns, to Wisconsin Alumni Research Foundation. Intermediates and processes for the production thereof, used in the synthesis of aldosterone. 3,049,539, 8–14–62, Cl. 260—239.55.

Johnson Wire Works Ltd., The: *See*—
MacBean, Donald G. 3,060,547.

Johnston, Charles R. Portable tie press. 3,068,598, 12–18–62, Cl. 38—71.

Johnston, Douglas, to John Blue Co., Inc. Method for applying liquids into the soil. Re. 25,307, 12–25–62, Cl. 111—6.

Johnston, Dwight L.: *See*—
Kurhajec, George A., Johnston, and Furman. 3,047,622.

Johnston, Edward J.: *See*—
Henningsen, Etlar A., and Johnston. 3,023,039.

Johnston, Edward J., to International Harvester Co. Rake tooth mounting. 3,066,470, 12–4–62, Cl. 56—400.

Johnston, Elmer F. Router dust guard. 3,022,806, 2–27–62, Cl. 144—252.

Johnston, Frank C.: *See*—
Krauss, Paul, and Johnston. 3,031,521.

Johnston, Frank C., and P. Krauss, to General Electric Co. Couplings for sheet wireway ducts. 3,023,032, 2–27–62, Cl. 285—156.

Johnston, Frank C., and P. Krauss, to General Electric Co. Busway hanger. 3,034,753, 5–15–62, Cl. 248—59.

Johnston, Frank C., and P. Krauss, to General Electric Co. Busway. 3,062,889, 7–3–62, Cl. 329—22.

Johnston, Grant M., to International Harvester Co. Endless track traction means for moving vehicles or the like. 3,039,828, 6–19–62, Cl. 305—23.

Johnston, Henry P., to Callery Chemical Co. Preparation of amines from imides by reduction with a borohydride. 3,026,355, 3–20–62, Cl. 260—577.

Johnston, Herbert N.: *See*—
Mueller, Ernest R., and Johnston. 3,022,885.

Johnston, Herbert N., and D. E. Lindner, to American Bleached Shellac Manufacturers Association, Inc. Modified shellac primer coatings. 3,067,044, 12–4–62, Cl. 106—14.

Johnston, Herrick L., to The Herrick L. Johnston, Inc. Method and apparatus for storing liquified gases. 3,069,042, 12–18–62, Cl. 220—10.

Johnston, Herrick L., Inc.: *See*—
Johnston, Herrick L. 3,069,042.

Weisend, Charles R. 3,031,887.

Johnston, Howard, to The Dow Chemical Co. Sulfone preparation process. 3,051,757, 8–28–62, Cl. 260—607.

Johnston, Howard, to The Dow Chemical Co. Process for making trichloronitroethylene. 3,054,828, 9–18–62, Cl. 260—644.

Johnston, Jack F.: *See*—
Trimnell, Donald, Patel, and Johnston. 3,035,045.

Johnston, James B. Container conveyor. 3,019,888, 2–6–62, Cl. 198—181.

Johnston, James D., to Pittsburgh Chemical Co. Photoisomeric preparation of trans bis organosulfonyl ethylenes. 3,042,596, 7–3–62, Cl. 204—158.

Johnston, James D., to Pittsburgh Coke and Chemical Co. Sulfonyl ethylene fungicides. 3,052,597, 9–4–62, Cl. 167—22.

Johnston, James D., G. E. Schroll, and H. Shapiro, to Ethyl Corp. Manganese carbonyl polytertiary phosphine compounds. 3,037,038, 5–29–62, Cl. 260—429.

Johnston, James E.: *See*—
Polanyi, Michael L., Johnston, and Brown. 3,049,047.

Johnston, James E., to American Optical Co. Method and apparatus for reclaiming particles from a mixture. 3,049,-232, 8–14–62, Cl. 209—111.5.

Johnston, James E. Means for adapting audio oscillators to flashlights. 3,049,669, 8–14–62, Cl. 250—16.

Johnston, James E., and O. W. Lundstrom, to American Optical Co. Method and apparatus for sorting punched cards, tags and the like. 3,069,012, 12–18–62, Cl. 209—110.

Johnston, James G.: *See*—
Frantz, William, and Johnston. 3,017,865.
Matheisel, Rudolph A., Matson, Johnston, and Fields. 3,069,028.

Johnston, James S.: *See*—
Matthews, Robert, and Johnston. 3,045,071.

Johnston, Joseph L.: *See*—
Atherton, Neil F., and Johnston. 3,041,975.

Johnston, Katharine G.: *See*—
Patrick, Tracy M., Jr., and Johnston. 3,060,224.
Johnston, Kenneth H., to Alvey Conveyor Mfg. Co. Machine for unstacking palletized loads. 3,070,241, 12–25–62, Cl. 214—8.5.
Johnston, Lawrence H., to United States of America, Atomic Energy Commission. Electric initiator with exploding bridge wire. 3,040,660, 6–26–62, Cl. 102—28.
Johnston, Lowell B., to Owens-Corning Fiberglas Corp. Method of producing panels of fibrous glass. 3,054,714, 9–18–62, Cl. 156—212.
Johnston, Lowell B., to Owens-Corning Fiberglas Corp. Apparatus for withdrawing mandrels from tubular bodies. 3,061,914, 11–6–62, Cl. 29—234.
Johnston, Lowell W. Trousers leg protector. 3,052,994, 9–11–62, Cl. 36—2.
Johnston, Mason W., and R. D. Markle, Jr., to International Business Machines Corp. Fluid pressure control valve. 3,050,081, 8–21–62, Cl. 137—622.5.
Johnston, Noah C. Tent frame. 3,070,106, 12–25–62, Cl. 135—8.
Johnston, Peter W. G., and A. Hudson, to Baker Perkins Ltd. Machines for moulding tablets from a rope of sugar or like plastic material. 3,039,404, 6–19–62, Cl. 107—8.
Johnston, Peter W. G., and R. G. Hewitt, to Baker Perkins Ltd. Manufacture of hard candy. 3,063,391, 11–13–62, Cl. 107—4.
Johnston, Richard L.: *See*—
Bauer, Jordan V. 3,025,963.
Johnston, Richard W.: *See*—
Colten, Robert B., and Johnston. 3,053,080.
Johnston, Robert B.: *See*—
Welanetz, Ludolph F., Johnston, and Morton. 3,034,351.
Johnston, Robert D.: *See*—
Hanold, Robert J., and Johnston. 3,029,596.
Johnston, Robert D., to General Motors Corp. Hydrostatic bearing means for an engine drive mechanism. 3,059,418, 10–23–62, Cl. 60—24.
Johnston, Robert W. Vehicle having crank shaft operable by standing occupant. 3,035,854, 5–22–62, Cl. 280—221.
Johnston, Robert W., and R. D. Hall, to Sylvania Electric Products Inc. Pneumatic abrasive cutting tool. 3,053,016, 9–11–62, Cl. 51—8.
Johnston, Roy W., and W. A. Biermann, to Controls Co. of America. Oil control. 3,020,923, 2–13–62, Cl. 137—316.
Johnston, Samuel S., and G. L. Freas, to National Steel Corp. Quenching apparatus. 3,026,884, 3–27–62, Cl. 134—122.
Johnston, Sidney F., Jr., to United States of America, Air Force. Aircraft with support for a plurality of Luneberg reflective lenses. 3,019,432, 1–30–62, Cl. 343—18.
Johnston, Sidney F., Jr., to United States of America, Air Force. Mounting aircraft with plural spherical Luneberg radar reflective lenses and mounting means. 3,020,542, 2–6–62, Cl. 343—18.
Johnston Testers, Inc.: *See*—
Andrew, Norman K., and Metcalf. 3,051,245.
Moosman, Jack A. 3,015,362.
Moosman, Jack A. 3,061,012.
Nutter, Benjamin P. 3,019,842.
Nutter, Benjamin P. 3,020,959.
Nutter, Benjamin P. 3,065,796.
Nutter, Benjamin P., and Griffin. 3,036,641.
Johnston, Timoleon O. Pocketed target. 3,035,838, 5–22–62, Cl. 273—102.
Johnston, Walker F., Jr., and I. F. Teykl, to Standard Oil Co. Platinum-catalyst hydroforming process. 3,024,187, 3–6–62, Cl. 208—138.
Johnston, William E. Resistive control for electronic circuits. 3,061,677, 10–30–62, Cl. 179—1.
Johnston, William J., to General Motors Corp. Ignition circuit. 3,030,548, 4–17–62, Cl. 315—177.
Johnston, William J., to General Motors Corp. Ignition system. 3,030,549, 4–17–62, Cl. 315—188.
Johnston, William R., to Standard Brands Inc. Process for preparing viable dry bacteria and molds. 3,034,968, 5–15–62, Cl. 195—98.
Johnston, William R., to Ampex Corp. Magnetic-core shift register. 3,047,842, 7–31–62, Cl. 340—174.
Johnstone, Ben B.: *See*—
Clemens, John E., Johnstone, Kerris, and Wazelt. 3,059,521.
Johnstone, Charles A., S. Hersh, M. H. Meekins, and L. Shiller, to United States of America, Navy. Apparatus for and method of varying initial velocity of hedgehog projector charges. 3,068,755, 12–18–62, Cl. 89—1.
Johnstone, Charles W., to Schlumberger Well Surveying Corp. Multi-channel count storage apparatus. 3,021,467, 2–13–62, Cl. 320—1.
Johnstone, Jack W., to The Birtcher Corp. Apparatus and method for mounting record card. 3,036,394, 5–29–62, Cl. 40—63.
Johnstone, James. Set of golf clubs. 3,059,926, 10–23–62, Cl. 273—77.
Johnstone, Theodore H., to General Motors Corp. Coincidental door locking system. 3,039,290, 6–19–62, Cl. 70—264.
Johnstone, Theodore H., and R. C. Liem, to General Motors Corp. Flush type door handle. 3,020,075, 2–6–62, Cl. 292—336.3.
Johnstone, Theodore H., F. I. Dully, and B. Sandor, to General Motors Corp. Slide bolt door lock. 3,069,889, 12–25–62, Cl. 70—147.
Johnstone, William E.: *See*—
Taylor, James, Johnstone, and Montgomery. 3,023,462.
Joiner, Edgar E., to Fred W. Mears Heel Co., Inc. Louis heels having forward lip extensions. 3,025,616, 3–20–62, Cl. 36—24.5.
Joint Filling Equipment Co.: *See*—
Gross, Charles P. 3,020,812.
Joints, Inc.: *See*—
Calder, William G. 3,038,631.
Jokela, Veikko J., to Minneapolis-Honeywell Regulator Co. Refrigeration defrost control. 3,066,496, 12–4–62, Cl. 62—140.
Joline, Everett S., to Sperry Rand Corp. Apparatus for multiple mode control systems. 3,016,048, 1–9–62, Cl. 121—41.
Joline, Everett S., to Sperry Rand Corp. Pressure ratio measuring device. 3,020,764, 2–13–62, Cl. 73—398.
Joline, Everett S., to Sperry Rand Corp. Force-ratio measuring device. 3,049,007, 8–14–62, Cl. 73—182.
Jolley, Leonard. Pneumatic cylinder control. 3,032,065, 5–1–62, Cl. 137—622.
Jolley, Paul L. Removable power pack for remotely controlled toys. 3,041,485, 6–26–62, Cl. 310—112.
Jolliffe, Sidney A. W. to Marconi's Wireless Telegraph Co. Ltd. Radio beacons. 3,020,546, 2–6–62, Cl. 343—106.
Jolliffe, Sidnay A. W., to Marconi's Wireless Telegraph Co. Ltd. Radio direction finders. 3,047,862, 7–31–62, Cl. 343—113.
Jolls, Lewis M. Mower attachment. 3,058,285, 10–16–62, Cl. 56—25.4.
Jolly, Christopher M., to The General Electric Co. Ltd. Devices producing light or infra-red radiation. 3,039,015, 6–12–62, Cl. 313—279.
Jolly, Jean: *See*—
Joly, Robert, and Jolly. 3,062,848.
Joly, Robert, and Jolly. 3,067,196.
Nomine, Gerard, Bertin, and Jolly. 3,032 567.
Jolly, Ross T. Shaving soap warmer. 3,043,484, 7–10–62, Cl. 222—335.
Jolly, Samuel E., to Sun Oil Co. Method for inhibiting corrosion caused by oil well fluids. 3,054,750, 9–18–62, Cl. 252—8.55.
Jolly, Samuel E., to Sun Oil Co. Naphthenic acid derivatives and their preparation. 3,064,022, 11–13–62, Cl. 260—429.
Joly, Christian A. L.: *See*—
Paillard, Edouard H., and Joly. 3,064,723.
Joly, Robert: *See*—
Cruz, Joly, Bucourt, and Fabignon. 3,052,708.
Joly, Robert, and J. Warnant, to Les Laboratoires Francais de Chimiotherapie. 17α,21-ethoxymethylene dioxy pregnanes and process for their preparation. 3,017,409, 1–16–62, Cl. 260—239.55.
Joly, Robert, J. Warnant, and G. Nomine, to Les Laboratoires Francais de Chimiotherapie. Acyloxylated derivatives of steroids and method of preparing same. 3,027,385, 3–27–62, Cl. 260—397.45.
Joly, Robert, and D. Bertin, to Roussel-UCLAF, S.A. Method of making a substituted pregnadiene-dione. 3,033,872, 5–8–62, Cl. 260—397.45.
Joly, Robert, and J. Warnant, to Roussel-UCLAF, S.A. Process for the preparation of esters of corticosteroids. 3,037,034, 5–29–62, Cl. 260—397.45.
Joly, Robert, and R. Bucourt, to Roussel-UCLAF, Societe Anonyme. Solutions of dialkylzinc in N,N-dialkylamides and a process for their preparation. 3,040,078, 6–19–62, Cl. 260—429.9.
Joly, Robert, and R. Bucourt, to Roussel-UCLAF, Societe Anonyme. Organozinc solutions in N,N-di-alkylamides and a process for their preparation. 3,040,079, 6–19–62, Cl. 260—429.9.
Joly, Robert, and R. Bucourt, to Roussel-UCLAF Societe Anonyme. Process for the preparation of alkyl borines. 3,040,103, 6–19–62, Cl. 260—606.5.
Joly, Robert, and J. Warnant, to Roussel-UCLAF, S.A. Process for making esters of substituted polyhydronaphthalene acids. 3,042,707, 7–3–62, Cl. 260—468.
Joly, Robert, J. Warnant, and B. Goffinet, to Roussel-UCLAF, S.A. 6α-fluoro-pregnanes and intermediates in the preparation thereof. 3,048,582, 8–7–62, Cl. 260—239.55.
Joly, Robert, J. Warnant, and B. Goffinet, to Roussel-UCLAF, S.A. Novel 16α-methyl-$\Delta^{9(11)}$ pregnadienes and preparation thereof. 3,052,696, 9–4–62, Cl. 260—397.45.
Joly, Robert, and J. Jolly, to Roussel-UCLAF, S.F. Process for 21-acyloxylation of 20-keto steroids and intermediates therefor. 3,062,848, 11–6–62, Cl. 260—397.45.
Joly, Robert, and J. Jolly, to Roussel UCLAF, S.A. Process for the preparation of steroids substituted in the 12-position and products resulting therefrom. 3,067,196, 12–4–62, Cl. 260—239.55.
Jominy, Walter E., and A. Roy, to Chrysler Corp. Oxidation resistant and ductile iron base aluminum alloys. 3,059,326, 10–23–62, Cl. 29—196.2.
Jonach, Fredrick L., to Esso Research and Engineering Co. Automatic control system. 3,026,722, 3–27–62, Cl. 73—116.
Jonach, Fredrick L., M. H. Edson, and J. A. Wilson, to Esso Research and Engineering Co. Apparatus and method for automatic control. 3,016,739, 1–16–62, Cl. 73—116.
Jonas, Frank E.: *See*—
Dunesnil, Henri A. 3,061,511.
Jonas, Gilbert F., to Genesco, Inc. Manufacture of thin sole shoes without lasts. 3,063,075, 11–13–62, Cl. 12—142.

Jonas, Leonard A.: *See*—
Conlisk, John R., Jonas, Stamm, Tarkow, and Weatherwax. 3,034,947.

Jonas, Walter M. to Sobel Metal Products, Inc. Sanitary belt. 3,051,178, 8–28–62, Cl. 128—291.

Jonas, Walter M., to Sobel Metal Products, Inc. Garter clasp. 3,052,006, 9–4–62, Cl. 24—245.

Jonason, Karl G., to Aktiebolaget Svenska Metallverken. Method and means for continuously annealing metal strips, wire and the like. 3,021,128, 2–13–62, Cl. 263—52.

Jones, Aili H.: *See*—
O'Leary, John F., Kunkel, and Jones. 3,063,901.

Jones, Albert R., and Q. H. Coffman, to Purex Corp., Ltd. Composition and process for etching magnesium. 3,053,-719, 9–11–62, Cl. 156—18.

Jones, Alfred C., to Marconi's Wireless Telegraph Co. Ltd. Transistor oscillators having overload protective means. 3,032,721, 5–1–62, Cl. 331—62.

Jones, Alonzo L.: *See*—
Sebald, Joseph F., and Jones. 3,047,276.

Jones, Alvin J., to Landis Tool Co. Form dressing device. 3,017,875, 1–23–62, Cl. 125—11.

Jones, Arthur H.: *See*—
Philippovic, Joachim W., and Jones. 3,031,060.

Jones, Brian H.: *See*—
Hallam, Thomas B., and Jones. 3,056,497.

Jones, Bruce C. Water skis. 3,066,328, 12–4–62, Cl. 9—310.

Jones, Byron M., to The Louis Allis Co. Direct current speed drive system. 3,022,453, 2–20–62, Cl. 318—154.

Jones, Cecil D.: *See*—
Thom, Wenzel W. 3,055,640.

Jones, Cecil H., and V. R. Stenger, to Kato Engineering Co. Wire twister. 3,026,915, 3–27–62, Cl. 140—119.

Jones, Charles H., Jr., 2/3% to M. M. Dickinson and L. H. Hurd, and 1/3 to N. S. Blodgett. Pill dispenser. 3,027,-054, 3–27–62, Cl. 222—362.

Jones, Charles H., Jr. Sailboat. 3,054,372, 9–18–62, Cl. 114—39.

Jones, Clarence I.: *See*—
Carroll, James C., Thompson, and Jones. 3,018,381.

Jones, Clarence O., Jr.: *See*—
Munschauer, Frederick E., Jr., Trautman, and Jones. 3,059,431.

Jones, Clarence S.: *See*—
Kleist, Robert A., and Jones. 3,018,475.
Kleist, Robert A., and Jones. 3,022,492.

Jones, Clarence S., to General Precision, Inc. Signalling system. 3,054,100, 9–11–62, Cl. 343—6.5.

Jones, Clarence S., and F. P. Lewandowski, to General Precision Inc. Monostable multivibrator employing four zone semiconductive gate in series with at least a transistor. 3,018,392, 1–23–62, Cl. 307—88.5.

Jones, Clarence S., and F. P. Lewandowski, to General Precision, Inc. Bistable circuit utilizing PNPN diode in series with transistor. 3,040,194, 6–19–62, Cl. 307—88.5.

Jones, Clarence S., and F. P. Lewandowski, to General Precision, Inc. Bistable multivibrator employing PNPN switching diodes. 3,040,195, 6–19–62, Cl. 307—88.5.

Jones, Claude E.: *See*—
Whittle, Robert L., Jones, Honeiser, and Margetts. 3,036,291.

Jones, Clifford, Sr.: *See*—
Schweitzer, William K., Jr., Lee, Jones, and Lang. 3,035,033.

Jones, Clive R., to British Nylon Spinners Ltd. Apparatus for the heat treatment of running yarns. 3,015,872, 1–9–62, Cl. 28—62.

Jones, Cordis W. Apparatus for making prestressed structural members. 3,049,786, 8–21–62, Cl. 25—118.

Jones, Coy V., Sr.: *See*—
Kennedy, Harry R., Andersen, and Jones. 3,059,407.

Jones, Dan H.: *See*—
Fisher, Richard G., and Jones. 3,068,480.

Jones, Daniel C.: *See*—
Carr, Louis E., and Jones. 3,045,850.

Jones, David H. Steering shaft mounted speedometer. 3,059,496, 10–23–62, Cl. 74—492.

Jones, David W., to Crane Packing Co. Automatic lap plate contour control. 3,031,806, 5–1–62, Cl. 51—129.

Jones, Delbert R., to Olin Mathieson Chemical Corp. Military detonators. 3,044,342, 7–17–62, Cl. 86—1.

Jones, Donald A.: *See*—
Hryniszak, Waldemar, and Jones. 3,030,779.

Jones, Donald M.: *See*—
Humphrey, Michael W., Jones, and Seyle. 3,065,967.

Jones, Donald W.: *See*—
Gilliland, Harry J., and Jones. 3,056,558.

Jones, E. D., Corp.: *See*—
Dalzell, David R., Jr. 3,049,307.

Jones, Earl F. Safety and arming mechanism for guided missiles. 3,066,605, 12–4–62, Cl. 102—70.2.

Jones, Earl O., Jr. Receptacle. 3,067,903, 12–11–62, Cl. 220—22.

Jones, Earle D.: *See*—
Evans, William E., and Jones. 3,017,625.

Jones, Earle M., to Protection Equipment Co., Inc. Bank night depository entrance. 3,031,133, 4–24–62, Cl. 232—44.

Jones, Early D.: *See*—
Sanders, Grady H., and Jones. 3,019,588.

Jones, Edward M.: *See*—
Mahaney, William H., and Jones. 3,040,322.

Jones, Edward M., to The Baldwin Piano Co. Optical encoder. 3,020,534, 2–6–62, Cl. 340—347.

Jones, Edward M., to The Baldwin Piano Co. Optical encoder. 3,023,406, 2–27–62, Cl. 340—347.

Jones, Edward M., to The Baldwin Piano Co. Optical encoder. 3,043,962, 7–10–62, Cl. 250—220.

Jones, Edward M., to The Baldwin Piano Co. Transistor oscillators. 3,045,192, 7–17–62, Cl. 331—111.

Jones, Edward M., and W. Love, to The Baldwin Piano Co. Photoelectric musical instruments and the like. 3,023,657, 3–6–62, Cl. 84—1.18.

Jones, Edward S.: *See*—
Frank, Robert G., and Jones. 3,035,341.

Jones, Elwood M., Jr.: *See*—
Frankin, William, and Jones. 3,055,492.

Jones, Elwyn D.: *See*—
Baugh, Francis H., Jones, and Wood. 3,063,007.

Jones, Elwyn D., to Canadian Industries Ltd. Apparatus for determining detonation or burning velocities of materials. 3,027,751, 4–3–62, Cl. 73—35.

Jones, Elwyn D., and H. H. Wood, to Canadian Industries Ltd. Fault detection in multi-filament yarns. 3,037,162, 5–29–62, Cl. 324—54.

Jones, Ernest, to Simmonds Aerocessories Ltd. Mountings for spindles, rods, shafts and the like. 3,025,931, 3–20–62, Cl. 188—83.

Jones, Evan, to Henry Valve Co. Valve. 3,053,499, 9–11–62, Cl. 251—284.

Jones, Evan, to Henry Valve Co. Refrigerant drier. 3,064,-819, 11–20–62, Cl. 210—266.

Jones, Frank. Closure having air pump mounted therein. 3,018,022, 1–23–62, Cl. 222—340.

Jones, Frank D.: *See*—
Silverberg, Bernard M., and Jones. 3,070,393.

Jones, Frank D., to Deere & Co. Method of harvesting corn. 3,025,654, 3–20–62, Cl. 56—63.

Jones, Frank E., to United States of America, Navy. Hygrometer elements. 3,058,979, 10–9–62, Cl. 338—35.

Jones, Frederic C., to Borg-Warner Corp. Sequential timer. 3,028,457, 4–3–62, Cl. 200—38.

Jones, Frederic C., and C. W. May, to Borg-Warner Corp. Sequential controller. 3,037,097, 5–29–62, Cl. 200—33.

Jones, Frederick L. Reversible sealing and drain coupling. 3,032,363, 5–1–62, Cl. 215—2.

Jones, Gary D., to General Electric Co. Thermoelectric food keeper. 3,048,020, 8–7–62, Cl. 62—3.

Jones, Gary D., to General Electric Co. Thermoelectric dehumidifier. 3,050,948, 8–28–62, Cl. 62—3.

Jones, Gary D., to General Electric Co. Thermoelectric devices. 3,064,064, 11–13–62, Cl. 136—4.

Jones, George H., 51% to W. J. D. Stone. Improvements in means for magnetically separating solid magnetic particles from a fluid current. 3,021,007, 2–13–62, Cl. 209—223.

Jones, George W. Reflection apparatus for pedestrians. 3,038,381, 6–12–62, Cl. 88—80.

Jones, George W. Artificial blood circulation apparatus. 3,046,903, 7–31–62, Cl. 103—149.

Jones, Gerwyn, to Babcock & Wilcox, Ltd. Cyclone separators in tiers. 3,068,629, 12–18–62, Cl. 55—349.

Jones, Gibb, and T. Cacioppo. Sand mold jacket. 3,060,532, 10–30–62, Cl. 22—112.

Jones, Giffin D.: *See*—
Skochdopole, Richard E., Rubens, and Jones. 3 062,729.

Jones, Giffin D., to The Dow Chemical Co. Isopropenylbenzyl chloride and polymers thereof. 3,067,182, 12–4–62, Cl. 260—87.5

Jones, Gilbert A. Clutch and transmission assembly. 3,038,-351, 6–12–62, Cl. 74—342.

Jones, Griffin L.: *See*—
Franke, Reinhold A., and Jones. 3,042,310.

Jones, Griffin L., Zinc brush plating solution. 3,017,334, 1–16–62, Cl. 204—55.

Jones, Hal J., and J. F. Bucy, Jr., to Texas Instruments Inc. Apparatus for reducing and recording data. 3,018,468, 1–23–62, Cl. 340—15.

Jones, Hal J., and J. A. Morrison, Jr., to Texas Instruments Inc. Apparatus for determining the correlation coefficients of data. 3,018,962, 1–30–62, Cl. 235—181.

Jones, Harold A., F. J. Schmidt, and S. E. Condon, to American Machine & Foundry Co. Bowling ball stop mechanism. 3,015 489, 1–2–62, Cl. 273—47.

Jones, Harold A., and F. J. Schmidt, to American Machine & Foundry Co. Bowling ball stop mechanism. 3,042,403, 7–3–62, Cl. 273—47.

Jones, Harold D., Jr., and E. R. Sturdivant. Device for controlling the movement of water into and out of the wet wells of fishing boats. 3,054,374, 9–18–62, Cl. 114—198.

Jones, Harold G. Boat propelling device. 3,051,250, 8–28–62, Cl. 170—168.

Jones, Harold S., to United States of America, Army. Aerial delivery means for maps and the like. 3,047,260, 7–31–62, Cl. 244—147.

Jones, Harold S., A. J. Dunlop, M. J. Lynch, and W. C. Prior, to United States of America, Army. Manually operated paper honeycomb expanding machine and method. 3,035,-961, 5–22–62, Cl. 156—197.

Jones, Harold S., G. L. Chiriaco, and P. Shopalovich, to United States of America, Army. Free-drop container for low-level aerial delivery. 3,061,248, 10–30–62, Cl. 244—138.

Jones, Hearl D., and P. E. Snider. Bean-shooting pistol. 3,066,666, 12–4–62, Cl. 124—27.

Jones, Herbert J. Control protection in automatic washing machines. 3,035,597, 5–22–62. Cl. 137—171.

Jones, Hershul T. and J. M., Jr., to Texaco Inc. Method and apparatus for a control system. 3,020,886, 2–13–62, Cl. 124—38.

Jones, Howard S., Jr., to United States of America, Army. Antenna testing shield. 3,029,430, 4–10–62, Cl. 343—703.

Jones, Howard S., Jr., to United States of America, Army. Waveguide components. 3,046,507, 7–24–62, Cl. 333—95.

Jones, Hugh H., and S. C. Stamps, deceased, by M. W. Stamps, executrix. Break-away switch for trailers. 3,062,326, 11–6–62, Cl. 188—3.

Jones, Idris W., to Ayers Ltd. Dryer felts. 3,049,153, 8–14–62, Cl. 139—426.

Jones, Jack: *See*—
Bradley, Norman, and Jones. 3,039,811.

Jones, Jack D., and R. W. Kettlety, to General Electric Co. Industrial card reader. 3,036,765, 5–29–62, Cl. 235—61.11.

Jones, Jack W.: *See*—
Bennett, John, Chaney, Jones, and Mayes. 3,047,794.
Bennett, John R., Chaney, Jones, and Mayes. 3,052,838.
Mayes, Fred M., and Jones. 3,034,217.
Mayes, Fred M., and Jones. 3,065,404.

Jones, James. Combination stud vice and tube flaring apparatus. 3,044,530, 7–17–62, Cl. 153—80.5.

Jones, James A.: *See*—
Ardley, Stanley M., and Jones. 3,021,300.

Jones, James B., to Aeroprojects, Inc. Ultrasonic tool. 3,029,706, 4–17–62, Cl. 113—126.

Jones, James B., to Aeroprojects, Inc. Ultrasonic devices. 3,048,358, 8–7–62. Cl. 78—82.

Jones, James B., to Sonobond Corp. Vibratory welding process and apparatus. 3,056,192, 10–2–62, Cl. 29—407.

Jones, James B., and E. E. Weismantel, to Aeroprojects Inc. Vibratory device. 3,038,359, 6–12–62, Cl. 78—82.

Jones, James B., C. F. De Prisco, and E. E. Weismantel, to Aeroprojects Inc. Apparatus for introducing high levels of vibratory energy to a work area. 3,039,333, 6–19–62, Cl. 78—82.

Jones, James B., W. C. Elmore, and C. F. De Prisco, to Sonobond Corp. Process for welding diminutive objects. 3,052,020, 9–4–62, Cl. 29—470.1.

Jones, James F. Awning type windows and locking means therefor. 3,030,671, 4–24–62, Cl. 20—42.

Jones, James M., Jr.: *See*—
Jones, Hershul T. and J. M., Jr. 3,020,886.

Jones, James M., Jr., to Texaco Inc. Viscosimeter. 3,024,642, 3–13–62, Cl. 73—54.

Jones, James M., Jr., to Texaco Inc. Apparatus and method for continuously determining viscosity. 3,024,643, 3–13–62, Cl. 73—55.

Jones, James M., Jr., to Texaco Inc. Automatic control of the viscosity of a fractionator product. 3,025,232, 3–13–62, Cl. 208—347.

Jones, Jean E., and P. H. Stewart, to Eastman Kodak Co. Sensitized photoconductive compositons comprising polymethine dyes containing a mercapto group. 3,047,384, 7–31–62, Cl. 96—1.

Jones, Jerome L.: *See*—
Silverman, Bernard R., Carroll, Simkins, Di Geambeardino, and Jones. 3,068,560.

Jones, Joel G., to Giannini Controls Corp. Television synchronizing system. 3,069,499, 12–18–62, Cl. 178—69.5.

Jones, John A. Can package. 3,016,133, 1–9–62, Cl. 206—47.

Jones, John B., Jr.: *See*—
Brakel, Lewis H., and Jones. 3,027,147.

Jones, John B., Jr., to Cameron and Jones, Inc. Off-gas collector for shaft kilns and the like. 3,061,293, 10–30–62, Cl. 263—29.

Jones, John D.: *See*—
En Dean, Howard J., Jones, and Topanelian. 3,016,733.

Jones, John E.: *See*—
Quinn, James L., and Jones. 3,033,444.
Quinn, James L., and Jones. 3,033,449.

Jones, John F.: *See*—
Schollenberger, Charles S., and Jones. 3,030,249.

Jones, John F., to The B. F. Goodrich Co. Cross-linked maleic anhydride polymers. 3,030,343, 4–17–62, Cl. 260—78.5.

Jones, John F., to The B. F. Goodrich Co. Cross-linked carboxylic polymers of triallyl cyanurate and alkenoic acids. 3,066,118, 11–27–62, Cl. 260—77.5.

Jones, John F., S. B. Williams, and J. J. Benson, to Williams Research Corp. Pressure jet type helicopter. 3,052,305, 9–4–62, Cl. 170—135.4.

Jones, John F. R., to John Summers & Sons Ltd. Work-supporting bases for coil annealing furnaces. 3,039,754, 6–19–62, Cl. 263—47.

Jones, John H. Optical switching. 3,023,318, 2–27–62, Cl. 250—237.

Jones, John L. Manufacturing absorbent diaphragms. 3,015,598, 1–2–62, Cl. 156—222.

Jones, John P., to Burroughs Corp. Magnetic core article. 3,023,387, 2–27–62, Cl. 336—198.

Jones, John P., to Burroughs Corp. Method of forming magnetic core elements. 3,030,697, 4–24–62, Cl. 29—155.57.

Jones, John P., to Burroughs Corp. Magnetic core elements. 3,068,437, 12–11–62, Cl. 336—213.

Jones, John P., W. F. Scott, and C. B. Methling, to Whirlpool Corp. Home appliance. 3,040,541, 6–26–62, Cl. 62—135.

Jones, John P., Jr., to Navigation Computer Corp. Transistor computer circuit. 3,015,734, 1–2–62, Cl. 307—88.5.

Jones, John W. Pavement cutter. 3,061,291, 10–30–62, Cl. 262—20.

Jones, Julius E. Well treating processes. 3,044,549, 7–17–62, Cl. 166—42.

Jones, Kenton J.: *See*—
Grewell, Glenwood, and Jones. 3,047,774.

Jones, Kenwood N. Shoe rack. 3,040,900, 6–26–62, Cl. 211—55.

Jones & Lamson Machine Co., The: *See*—
Flanders, James H. 3,056,243.

Jones & Laughlin Steel Corp.: *See*—
Cooper, Emmit R. 3,016,127.
Gochenour, Olin C. 3,030,836.
Laycak, John F. 3,019,346.
Laycak, John F. 3,019,347.
Laycak, John F. 3,035,478.
Laycak, John F., and Uphoff. 3,020,034.
Lindstrom, John A. 3,066,226.
McCreanor, Richard A., and Uphoff. 3,018,656.
McCreanor, Richard A., Uphoff, Laycak, and Libenschek. 3,020,033.
Osterman, Harry F., Jr., and Uphoff. 3,066,084.
Speer, John R. 3,057,251.
Stanton, Robert L., and Myers. 3,032,846.
Uphoff, Russel L. 3,036,299.
Uphoff, Russel L. 3,066,225.

Jones, Lawrence R., to Commercial Solvents Corp. Stabilized tris(hydroxymethyl)nitromethane composition. 3,024,202, 3–6–62, Cl. 252—397.

Jones, Leon, to Robertshaw-Fulton Controls Co. Breathing apparatus. 3,050,054, 8–21–62, Cl. 128—142.

Jones, Leonard S., S. Kowalyshyn, and E. L. Stene, to United States of America, Navy. Torpedo depth control system. 3,033,147, 5–8–62, Cl. 114—25.

Jones, Lena M. Vacuum door mat. 3,064,298, 11–20–62, Cl. 15—310.

Jones, Leslie C., to South Western Marine Factors Ltd. Apparatus for mounting an outboard motor on a boat. 3,063,404, 11–13–62, Cl. 115—41.

Jones, Lewis: *See*—
Dixon, Reginald J., Jones, and Riley. 3,043,166.

Jones, Lloyd E.: *See*—
Berkshire, Robert H., and Jones. 3,069,755.

Jones, Lloyd R.: *See*—
Roberts, Frederick W., Jones, DiMattia, and Curtis. 3,051,707.

Jones, Loren C., to McGraw-Edison Co. Coil for electrical rotating machine. 3,042,743, 7–3–62, Cl. 174—120.

Jones, Loyd W., to Pan American Petroleum Corp. Fracturing earth formations. 3,024,191, 3–6–62, Cl. 252—8.55.

Jones, Loyd W., to Pan American Petroleum Corp. Water soluble corrosion inhibitor and bactericide. 3,033,784, 5–8–62, Cl. 252—8.55.

Jones, Loyd W., to Pan American Petroleum Corp. Polyalkyl pyridines for corrosion inhibiting. 3,066,097, 11–27–62, Cl. 252—8.55.

Jones, Lucian T. Rigging structure for erecting storage enclosures. 3,061,271, 10–30–62, Cl. 254—144.

Jones, Marvin E.: *See*—
Brittain, Clarence F., and Jones. 3,024,764.

Jones, Marvin R.: *See*—
Zorgdrager, Maurrice M., and Jones. 3,042,057.

Jones, Marvin R., to Cameron Iron Works, Inc. Check valve. 3,027,914, 4–3–62, Cl. 137—515.7.

Jones, Marvin R., to Cameron Iron Works, Inc. Valve. 3,033,224, 5–8–62, Cl. 137—246.12.

Jones, Marvin R., to Cameron Iron Works, Inc. Wedge-type support. 3,052,943, 9–11–62, Cl. 24—263.

Jones, Mert E. Swinging stage or scaffolding. 3,052,315, 9–4–62, Cl. 182—150.

Jones, Milton G., and D. U. Elscott, to The Cleveland Trencher Co. Back-filling machine. 3,037,309, 6–5–62, Cl. 37—144.

Jones, Morris L. Auto glove compartment rack. 3,058,595, 10–16–62, Cl. 211—51.

Jones, Morton E., to Texas Instruments, Inc. Ohmic connections for silicon semiconductor devices. 3,021,462, 2–13–62, Cl. 317—240.

Jones, Owen M., to Vermiculite Mfg. Co. Brick package and method of making same. 3,015,192, 1–2–62, Cl. 50—103.

Jones, Paul F.: *See*—
McKibben, Horace E., and Jones. 3,023,565.

Jones, Preston A., to said P. A. Jones and W. D. Runswick. Light receptacle. 3,029,335, 4–10–62, Cl. 240—147.

Jones, Preston A., ½ to W. D. Runswick. Globe attachment for light fixtures. 3,030,498, 4–17–62, Cl. 240—128.

Jones, Preston A., to said P. A. Jones, and W. D. Runswick. Recessed lighting fixture having hinged light diffuser cover. 3,069,540, 12–18–62, Cl. 240—147.

Jones, R. A., and Co., Inc.: *See*—
Jones, Wickliffe. 3,039,248.
Jones, Wickliffe. 3,049,846.

Jones, Ragon E. Calculator for determining heating and cooling requirements. 3,026,031, 3–20–62, Cl. 235—89.

Jones, Ralph, Jr., C. C. Price, and A. K. Sen, to United States of America, Army. Quinoline-type mustards and process for producing same. 3,066,141, 11–27–62, Cl. 260—279.

Jones, Randall F. Closet water tempering means. 3,023,423, 3–6–62, Cl. 4—18.

Jones, Ray L., to Ultradyne, Inc. ("Ultradyne"). Method and apparatus for prestressing a remote power linear drive. 3,066,404, 12–4–62, Cl. 29—452.
Jones, Reginald H., and G. W. Kane, Jr. Multipurpose scrubber. 3,024,487, 3–13–62, Cl. 15—524.
Jones, Reginald W.: *See*—
Spencer, Frederick, and Jones. 3,033,621.
Jones, Richard A., to General Motors Corp. Battery cap. 3,020,328, 2–6–62, Cl. 136—177.
Jones, Richard E., and J. Isaacson, to Research Corp. Cuvette oximeter. 3,035,481, 5–22–62, Cl. 88—14.
Jones, Richard H.: *See*—
Hanstein, Walter, Jr., and Jones. 3,057,552.
Jackson, Warren, Jr., and Jones. 3,059,891.
Jones, Richard H., W. J. Marczak, and J. W. Funk, to Burroughs Corp. Electrostatic developing apparatus. 3,038,442, 6–12–62, Cl. 118—637.
Jones, Richard L.: *See*—
Ruhala, Joseph D., and Jones. 3,056,177.
Jones, Richard N., and J. M. A. Nadeau, to National Research Council. Spectrometric cell structure. 3,036,215, 5–22–62, Cl. 250—42.5.
Jones, Robert A.: *See*—
Milton, Robert M., and Jones. 3,023,841.
Jones, Robert E.: *See*—
Garber, John D., and Jones. 3,055,914.
Garber, John D., Jones, and Reynolds. 3,025,307.
Utne, Torleif, Jones, and Garber. 3,070,633.
Wasserman, David, and Jones. 3,069,444.
Jones, Robert E., and D. Wasserman, to Merck & Co., Inc. Substituted phenazasilines. 3,065,251, 11–20–62, Cl. 260—448.2.
Jones, Robert E., and H. B. Lange, to Merck & Co., Inc. Conversion of invert molasses. 3,066,150, 11–27–62, Cl. 260—347.8.
Jones, Robert M. Method of packaging. 3,039,245, 6–19–62, Cl. 53—14.
Jones, Roger C., and G. R. Lowrey, Jr., to Melpar, Inc. Gaseous plasma lens. 3,067,420, 12–4–62, Cl. 343—701.
Jones, Ronald, to Belle Jardiniere. Measuring corsets or jackets. 3,067,516, 12–11–62, Cl. 33—15.
Jones, Rufus V., and J. N. Scott, Jr., to Phillips Petroleum Co. Liquid diene polymer-olefin/SO_2 composition and preparation of thereinserted cellular product therefrom. 3,022,254, 2–20–62, Cl. 260—2.5.
Jones, Rufus V., and J. F. Svetlik, Sr., to Phillips Petroleum Co. Laminated rubber articles and process of producing the same. 3,035,954, 5–22–62, Cl. 154—43.
Jones, Sadie C.: *See*—
Sanders, Grady H., and Jones. 3,019,588.
Jones, Sam A.: *See*—
Poundstone, William N., Ream, and Jones. 3,039,827.
Jones, Sam A. Vacuum operated normally closed valve. 3,022,977, 2–27–62, Cl. 251—61.
Jones, Sam A. Road sounding device for automotive vehicles. 3,032,361, 5–1–62, Cl. 291—25.
Jones, Samuel F., to W. P. Frankenstein. Display and shipping package. 3,070,222, 12–25–62, Cl. 206—45.14.
Jones, Sheldon, to Hughes Aircraft Co. Null minimization circuit for cancelling spurious output of synchronous detector. 3,035,230, 5–15–62, Cl. 329—50.
Jones, Stanford B.: *See*—
Janson, Leroy W., and Jones. 3,039,546.
Jones, Stanley B.: *See*—
George, Wayland D., Jones, and Yule. 3,049,620.
Jones, Stanley B., T. D. Mueller, and P. B. Baker, to California Research Corp. Apparatus for neutron-capture gamma ray logging. 3,041,454, 6–26–62, Cl. 250—71.5.
Jones, Stanley E., and R. J. S. Brown, to California Research Corp. Formation liquid logging. 3,044,010, 7–10–62, Cl. 324—5.
Jones, Sterling B., to Monogram Precision Industries, Inc. Clamp. 3,044,512, 7–17–62, Cl. 269—254.
Jones Tate & Co. Ltd.: *See*—
Lang, Tadeusz, and Abolins. 3,053,113.
Jones, Thomas M., Jr.: *See*—
Jones, Kenneth A., Jones, and Williams. 3,063,595.
Jones, Thomas P., to Standard Conveyor Co. Coding mechanism for conveyor systems. 3,019,883, 2–6–62, Cl. 198—38.
Jones, Thomas T.: *See*—
Collinson, Roy G., and Jones. 3,035,032.
Jones, Verlin F.: *See*—
Gilbertson, Louis M., Jones, and Burch. 3,039,454.
Jones, Walter L., to United-Carr Fastener Corp. Heat sealed fastener installation. 3,015,141, 1–2–62, Cl. 24—216.
Jones, Walter L., to United-Carr Fastener Corp. Apparatus for applying snap fastener elements to supporting materials. 3,019,152, 1–30–62, Cl. 156—380.
Jones, Wayne W. Method of installing a flexible tank liner. 3,068,561, 12–18–62, Cl. 29—401.
Jones, Wesley N., to Westinghouse Electric Corp. Electrical control apparatus. 3,040,237, 6–19–62, Cl. 323—22.
Jones, Wickliffe, to R. A. Jones and Co., Inc. Automatic case packing machine. 3,039,248, 6–19–62, Cl. 53—152.
Jones, Wickliffe, to R. A. Jones and Co., Inc. Tray-type cartoning machine. 3,049,846, 8–21–62, Cl. 53—164.
Jones, Willard M.: *See*—
Smith, Richard B. 3,015,411.
Jones, William, Ltd.: *See*—
Soulsby, Norman H. 3,033,105.
Jones, William A.: *See*—
Garetson, Paul K., and Jones. 3,037,068.
Jones, William B., to H. K. Porter Co. Sliding door latch. 3,017,760, 1–23–62, Cl. 70—97.
Jones, William C., to Bell Telephone Laboratories, Inc. Line concentrator signaling system. 3,033,937, 5–8–62, Cl. 179—18.
Jones, William C., and P. G. Ridinger, to Bell Telephone Laboratories, Inc. Transistor memory cell. 3,021,436, 2–13–62, Cl. 307—88.5.
Jones, William C., Jr., to Esso Research and Engineering Co. Chromatographic analysis. 3,047,992, 8–7–62, Cl. 55—67.
Jones, William E.: *See*—
Streich, John, and Jones. 3,068,269.
Jones, William G. M., T. Leigh, and J. L. Madinaveitia, to Imperial Chemical Industries Ltd. Ferrocene hematinic compositions and therapy. 3,035,978, 5–22–62, Cl. 167—68.
Jones, William H., and F. C. Novello, to Merck & Co., Inc. Reduction of 1,2,4-benzothiadiazine-1,1-dioxides. 3,025,292, 3–13–62, Cl. 260—243.
Jones, William H., and J. B. Reece, to United States of America, Atomic Energy Commission. Apparatus for electron beam heating control. 3,054,896, 9–18–62, Cl. 250—41.9.
Jones, William R.: *See*—
Brown, Lawrence B., Jones, and Seeley. 3,015,822.
Jones, William R. Therapeutic brassiere. 3,035,571, 5–22–62, Cl. 128—32.
Jones, William R., to International Business Machines Corp. Attenuators. 3,065,435, 11–20–62, Cl. 333—81.
Jongbloed-Unterhorst, Hans, to Hughes Aircraft Co. Shear fastener. 3,050,358, 8–21–62, Cl. 312—333.
Jonke, Albert A., J. J. Barghusen, and N. M. Levitz, to United States of America, Atomic Energy Commission. Process for dissolving binary uranium-zirconium or zirconium-base alloys. 3,049,401, 8–14–62, Cl. 23—14.5.
Jonker Business Machines, Inc.: *See*—
Jonker, Frederick. 3,052,150.
Jonker, Frederick, to Jonker Business Machines, Inc. Apparatus for making and interpreting punched card data. 3,052,150, 9–4–62, Cl. 88—1.
Jonker-Friend Corp.: *See*—
Falconer, David G. 3,016,614.
Falconer, David G. 3,016,615.
Jonker, Gerard H., to North American Philips Co., Inc. Ferromagnetic oxidic material. 3,043,776, 7–10–62, Cl. 252—62.5.
Jonker, Gerard H. and P. B. Braun, to North American Philips Co., Inc. Ferromagnetic material. 3,020,235, 2–6–62, Cl. 252—62.5.
Jonkers, Cornelis O., to N.V. Optische Industrie "De Oude Delft." Mounting of optical elements. 3,015,990, 1–9–62, Cl. 88—96.
Jonkopings och Vulcans Tandsticksfabriksaktiebolag: *See*—
Johansson, Hugo T. H. A. 3,051,375.
Jonson, Carl A., E. M. McColm, and W. Farrell, to United States Rubber Co. Apparatus for measuring elastic properties. 3,062,044, 11–6–62, Cl. 73—91.
Jonsson, Erik, to Svenska Ackumulator Aktiebolaget Jungner. Automatic compensated battery circuit. 3,025,455, 3–13–62, Cl. 323—68.
Jonsson, Erik, and S. U. Falk, to Svenska Ackumulator Aktiebolaget Jungner. Alkaline storage battery with semipermeable separators. 3,049,578, 8–14–62, Cl. 136—30.
Joo, Louis A.: *See*—
Skeff, Walter E., and Joo. 3,056,763.
Joo, Louis A., W. E. Kramer, and T. H. Szawlowski, to The Pure Oil Co. Polyhalo carboxylic acids. 3,056,773, 10–2–62, Cl. 260—128.
Joor, William E., II. Sealing means for floating roof tanks. 3,059,805, 10–23–62, Cl. 220—26.
Joor, William E., II. Floating roof tank seal. 3,059,806, 10–23–62, Cl. 220—26.
Joormann, Hendrik J. M.: *See*—
Van Geel, Theodorus L. C., and Joormann. 3,043,979.
Joppa, Everett L., to P-M Associates. Heavy medium for gravity separations. 3,021,282, 2–13–62, Cl. 252—60.
Jorda, Robert M., and R. P. Yachik, to Shell Oil Co. Device for obtaining impression. 3,049,752, 8–21–62, Cl. 18—5.
Jordan, Allan E., & Associates: *See*—
Robinson, Charles. 3,016,045.
Jordan, Arthur D., Jr., and W. W. Toy, to Rohm & Haas Co. Aqueous compositions comprising water insoluble linear polymer and an ammonium salt of a copolymer of methyl methacrylate and acrylic acid monomer and article coated therewith. 3,037,952, 6–5–62, Cl. 260—29.6.
Jordan, Cecil R.: *See*—
Scott, Herbert E., Randall, and Jordan. 3,062,224.
Jordan, Charles E., and R. W. Phelps, to The Black-Clawson Co. Web tension control system. 3,049,313, 8–14–62, Cl. 242—75.44.
Jordan, Elza C. Trailer. 3,058,609, 10–16–62, Cl. 214—505.
Jordan, Ernst. Seed-sowing machine. 3,053,418, 9–11–62, Cl. 222—177.
Jordan, Francis M. and L. M. Grass seed harvester. 3,017,735, 1–23–62, Cl. 56—128.
Jordan, Frank G. Kaleidoscope projecting apparatus. 3,030,856, 4–24–62, Cl. 88—24.
Jordan, Gilbert L.: *See*—
Jackson, Frank L., Fisher, and Jordan. 3,037,624.
Jordan, Hans: *See*—
Fay, John A., Stephens, Fleming, and Jordan. 3,058,479.

Jordan, Hans, to waste King Corp. Dishwasher frame. 3,032,382, 5–1–62, Cl. 312—253.

Jordan, Hans, and J. A. Fay, to Waste King Corp. Dishwasher with door actuated means for operating timer switch. 3,028,869, 4–10–62, Cl. 134—58.

Jordan, Harold K., and C. W. McCachern, Jr., to Western Electric Co., Inc. Apparatus for marking articles. 3,045,588, 7–24–62, Cl. 101—38.

Jordan, Harold O. W.: *See*—
Rome, Martin, and Jordan. 3,047,758.

Jordan, Homer G., L. J. Purgett, W. E. Restall, Jr., and P. E. Schweizer, to Bell Telephone Laboratories, Inc. Switching device. 3,027,432, 3–27–62, Cl. 179—164.

Jordan Industries, Inc.: *See*—
Topf, Sam B. 3,065,767.

Jordan, John, to United States Steel Corp. Three part braided grommet and method of making the same. 3,026,762, 3–27–62, Cl. 87—8.

Jordan, John S., to North Electric Co. Relay. 3,042,775, 7–3–62, Cl. 200—104.

Jordan, John W.: *See*—
Stuchell, Harry S., Jordan, and Offeman. 3,027,322.
Stuchell, Harry S., Jordan, and Offeman. 3,027,323.

Jordan, Lawrence M.: *See*—
Jordan, Francis M. and L. M. 3,017,735.

Jordan, Richard H.: *See*—
Wilhelm, Frank R., and Jordan. 3,016,553.

Jordan, Stanley R., to Standard Electrical Products Co. Regulator. 3,048,771, 8–7–62, Cl. 323—75.

Jordan, Terence B.: *See*—
Eastman, Du Bois, Dille, Taylor, Toettcher, and Jordan. 3,048,540.
Roach, James R., and Jordan. 3,068,173.

Jordan, W. L.: *See*—
Wheeler, Charles J. 3,057,106.

Jordan, Walter, G.B.I., Firma: *See*—
Wenzl, Josef. 3,065,766.

Jordan, Walter E.: *See*—
Breen, Alvin L., and Jordan. 3,017,686.

Jordan, Wesley A., and C. C. Sovia, to General Mills, Inc. Composition of matter for decorating purposes. 3,041,187, 6–26–62, Cl. 106—15.

Jordan, William E., Jr., to Texaco Inc. Rust inhibited soluble oil. 3,069,356, 12–18–62, Cl. 252—18.

Jordan, William H.: *See*—
Kemp, Edwin V., Jordan, and Botkin. 3,070,005.
Dolan, James P., and Jordan. 3,045,198.

Jordi, Peter: *See*—
Arni, Hans, and Jordi. 3,069,721.

Jordt, Robert, to G. D. Searle & Co. Combined mold and package for suppositories. 3,059,766, 10–23–62, Cl. 206—63.2.

Jorgensen, Adam A.: *See*—
Confeld, James D., Ellis and Jorgensen. 3,025,355.

Jorgensen Bros.: *See*—
Sawamura, Toshio, and Hayashi. 3,022,961.

Jorgensen, Carther M. Wire holder. 3,027,170, 3–27–62, Cl. 279—22.

Jorgensen, Chester N., E. S. Stork, and L. D. Turner, to The National Cash Register Co. Accounting machine recording control means. 3,067,930, 12–11–62, Cl. 235—60.3.

Jorgensen, Clarence H. Holding device for doors and the like. 3,055,689, 9–25–62, Cl. 292—70.

Jorgensen, Eugene C., to Regents of the University of California. Antihypercholesterolemic thyronine derivatives. 3,017,428, 1–16–62, Cl. 260—471.

Jorgensen, Eugene C., to Regents of The University of California. Naphthoxy substituted phenylalanine derivatives. 3,045,041, 7–17–62, Cl. 260—471.

Jorgensen, George W., to Lithographic Technical Foundation. Method for controlling print quality for lithographic presses. 3,053,181, 9–11–62, Cl. 101—426.

Jorgensen, Irving W. Extension brush. 3,036,322, 5–29–62, Cl. 15—111.

Jorgensen, Iver A.: *See*—
Uihlein, Erwin C., and Jorgensen. 3,039,615.

Jorgensen, Niels P. Method for the production of hand wheels from a single blank. 3,058,204, 10–16–62, Cl. 29—159.

Jorgensen, Otto A., to General Dynamics Corp. Tank circuit. 3,051,891. 8–28–62, Cl. 323—76.

Jorgensen, Ove A. Adjustable suspension device for ceiling panellings. 3,043,548, 7–10–62, Cl. 248—327.

Jorgensen, Paul S., to American Bosch Arma Corp. Acceleration compensated pendulum. 3,047,962, 8–7–62, Cl. 33—215.

Jorgensen, Poul F. W. Upholstered articles of furniture. 3,047,338, 7–31–62, Cl. 297—357.

Jorgensen, Robert A., to Wood Specialty Products, Inc. Folding door. 3,033,283, 5–8–62, Cl. 160—183.

Jorgensen, Robert A. Door catch. 3,061,346, 10–30–62, Cl. 292—17.

Jorgensen, Walter T. Place-holding device for books. 3,016,036, 1–9–62, Cl. 116—119.

Jorgenson & Co.: *See*—
Kirkman, James C. 3,030,718.

Jorgenson, John G.: *See*—
Fotsch, Arthur H., and Jorgenson. 3,026,778.

Jorgenson, John P., and O. E. Kling. Cable clamps. 3,069,739, 12–25–62, Cl. 24—129.

Joris, George G.: *See*—
Bostian, Logan C., Joris, and Miller. 3,070,627.
Cawthon, Thomas M., Jr., and Joris. 3,050,514.

Jorman, Göte, and G. Oholm, to Aktiebolaget Svenska Flaktfabriken. Apparatus for treating granular materials. 3,028,681, 4–10–62, Cl. 34—57.

Jorner, Victor, to The Seeburg Corp. Spindle for automatic drop-type phonographs. 3,020,050, 2–6–62, Cl. 274—10.

Jorritsma, Sjerp. Portable signal device. 3,056,954, 10–2–62, Cl. 340—321.

Jorzenink, Erich, to Koppers Co., Inc. Dead-ending device for contact lines and overhead wires. 3,044,763, 7–17–62, Cl. 267—69.

Josam Mfg. Co.: *See*—
Manas, Vincent T., and Flegel. 3,020,565.
Manas, Vincent T., and Flegel. 3,054,119.

Joschko, Raymond C., to Automatic Canteen Co. of America. Coffee making device. 3,053,167, 9–11–62, Cl. 99—281.

Joseph, Henry. Racks. 3,039,620, 6–19–62, Cl. 211—147.

Joseph, James. Work support for centerless grinder. 3,065,582, 11–27–62, Cl. 51—238.

Joseph, Jean E. Child's garment with expandable crotch. 3,039,111, 6–19–62, Cl. 2—80.

Joseph, Jean E. Stretchable garment for infants. 3,041,625, 7–3–62, Cl. 2—80.

Joseph, John L. Amusement device. 3,018,100, 1–23–62, Cl. 272—1.

Joseph, Joseph P., J. P. Dusza, and S. Bernstein, to American Cyanamid Co. New 17-oxygenated-Δ⁴-progesterones. 3,069,440, 12–18–62, Cl. 260—397.45.

Joseph, Nicole M.: *See*—
Jacob, Robert M., Preau, and Joseph. 3,058,985.

Joseph, Philip J.: *See*—
Kapany, Narinder S., Pontarelli, and Joseph. 3,045,223.

Joseph, Werner: *See*—
Podschus, Ernst, and Joseph. 3,021,195.

Joseph, Werner, G. Kaule, and E. Podschus, to Farbenfabriken Bayer Aktiengesellschaft. Process for drying fillers of silica acid or silicate. 3,020,646, 2–13–62, Cl. 34—10.

Josephian, William: *See*—
Hampton, Robert S. and Josephian. 3,037,657.

Josephs, Melvin J., to The Dow Chemical Co. Control of aquatic vegetation. 3,054,667, 9–18–62, Cl. 71—2.7.

Josephs, Melvin J., to The Dow Chemical Co. Method for killing aquatic vegetation. 3,054,668, 9–18–62, Cl. 71—2.7.

Josephs, Melvin J., and J. L. Hardy, to The Dow Chemical Co. Methods for the control of the growth of plants and plant parts. 3,069,252, 12–18–62, Cl. 71—2.5.

Josephson, Bengt A. S. Broadband aircraft foil antenna. 3,039,095, 6–12–62, Cl. 343—708.

Josephson, Vernal, to Space Technology Laboratories, Inc. Switch. 3,042,828, 7–3–62, Cl. 313—214.

Joslin, Charles M., to Socony Mobil Oil Co., Inc. Seismic explosive anchor. 3,046,886, 7–31–62, Cl. 102—21.8.

Joslow, Karl P., to S. Joslow. Manually operated tachistoscope. 3,020,653, 2–13–62, Cl. 35—35.

Joslow, Samuel: *See*—
Joslow, Karl P. 3,020,653.

Joslyn, Carl R.: *See*—
Elliott, Richard L., and Joslyn. 3,068,028.

Joslyn Mfg. and Supply Co.: *See*—
Fahey, James H., Jr. 3,065,339.

Joss, Ira, P. M. Lederberg, and V. Silson, to Helena Rubinstein, Inc. Mascara applicator. 3,033,213, 5–8–62, Cl. 132—79.

Josso, Emile R. A., to Societa Metallurgique d'Imphy. Metal composition having improved oxidation- and corrosion-resistance and magnetic characteristics, and method of preparing same. 3,052,576, 9–4–62, Cl. 148—120.

Jost, Harold R., to Johns-Manville Fiber Glass Inc. Adaptor for live spindle. 3,038,675, 6–12–62, Cl. 242—46.4.

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Carlson, Allan E., and Jost. 3,051,839.

Jost, Jacob M., to Clevite Corp. Hydrothermal synthesis of quartz. 3,051,558. 8–28–62, Cl. 23—273.

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Jouin, Jacques: *See*—
Le Flem, Léon, and Jouin. 3,036,966.

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Jounen, Joseph C.: *See*—
Straub, Melvin J., Shortell, Lobash, Doying, and Jounen. 3,061,909.

Jour, Jean-Marc: *See*—
Heintz, Rene, and Jour. 3,044,893.

Jourdan, Sylvester W., to Bootz Mfg. Co., Inc. Bezel assembly. 3,034,612, 5–15–62, Cl. 189—36.

Journal Box Servicing Corp.: *See*—
George, Leo B. 3,028,202.

Jowitt, Hubert, to The Distillers Co. Ltd. Catalysed gas-liquid chemical processes. 3,052,713, 9–4–62, Cl. 260—484.
Joy, Ellis F., to Audivox, Inc. Temple piece for spectacles hearing aid. 3,062,911, 11–6–62, Cl. 136—173.
Joy, Ivan L. Means for ultrasonic inspection of rail. 3,028,751, 4–10–62, Cl. 73—67.8.
Joy, Ivan L. Apparatus for wetting surfaces for ultrasonic testing. 3,028,753, 4–10–62, Cl. 73—67.8.
Joy, Ivan L. Coupling liquid apparatus for ultrasonic testing. 3,055,210, 9–25–62, Cl. 73—71.5.
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Joy, Ivan L. Electrical generator regulating systems. 3,061,735, 10–30–62, Cl. 307—57.
Joy Mfg. Co. : *See*—
Baechli, George. 3,017,228.
Baechli, George. 3,059,757.
Ball, Charles F. 3,041,054.
Collins, Samuel C. 3,060,697.
Curtis, John C. 3,045,771.
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Drain, James A., Read, and Gordon. 3,023,044.
Dudley Victor L. 3,061,233.
Fish, Walter D. 3,053,465.
Frellsen, Carlton B. 3,015,473.
Gaw, Richard G. 3,063,694.
Grundmann, John F. 3,021,739.
Grundmann, John F. 3,061,356.
Hale, Ralph F. 3,061,330.
Hanson, William, Jr. 3,061 076.
Hildebrandt, Edward J. 3,031,131.
Krouse, LeRoy M., and Zech. 3,064,148.
Leven, Samuel. 3,025,918.
Little, Larry L. 3,048,935.
Miller, Robert A. 3,017,681.
Minnis, Harold F. 3,060,760.
Norrick, Robert F. 3,028,170.
Norrick, Robert F. 3,070,180.
Osgood, Charles F. 3,050,295.
Osgood, Charles F. 3,059 618.
Osgood, Charles F. 3,062,518.
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Osgood, Charles F. 3,063,691.
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Paget, Win W. 3,061,011.
Perlis, David B., and Vic Corp. 3,057,137.
Phillips, Samuel R. 3,032,364.
Phillips, Samuel R. 3 037,803.
Read, John A., and Calmusky. 3,058,267.
Robinson, Donald B., and Hollocher. 3,039,072.
Rollins, Lester G. 3,019,665.
Sibley, John R. 3,052,454.
Sibley John R. 3,061,290.
Thompson, Charles T. 3,065,806.
Wachsmuth, Erich A. 3,034,441.
Wachsmuth, Erich A., 3,044,681.
Joyce, Asa W., to American Cyanamid Co. Azopyrazolone dye for polyester fibers. 3,019,217, 1–30–62, Cl. 260—163.
Joyce, Asa W., and J. J. Leavitt. to American Cyanamid Co. Chlorocarbonyl aryl dichlorotriazines and dyes derived therefrom. 3,055,895, 9–25–62, Cl. 260—248.
Joyce-Cridland Co., The : *See*—
Goldzwig, David M. 3,052,322.
Hott, Ion V. K. 3,035,662.
Joyce, John, to Purolator Products, Inc. Filter unit with restrictor means, 3,021,955, 2–20–62, Cl. 210—132.
Joyce, John J. : *See*—
Brown, Donovan, and Joyce. 3,038,174.
Joyce, Robert M., Jr. : *See*—
Harris, John F., Jr., and Joyce. 3,062,893.
Joyce, Taylor C. Decorative light fixture. 3,018,362. 1–23–62. Cl. 240—10.
Joyeux, Jean-Pierre : *See*—
Voreaux, Claude, and Joyeux. 3,039,267.
Joyner, Frederick B. : *See*—
Coover, Harry W., Jr., and Joyner. 3,026,311.
Joynson, Reuben E., Jr. : *See*—
Waters, Kenneth H., and Joynson. 3,064,887.
Jubb, Albert, and C. L. Johnson, to Rolls-Royce Ltd. Engine liquid fuel supply system. 3,056,259, 10–2–62. Cl. 60—39.28.
Jubb, Anthony H., to Imperial Chemical Industries Ltd. Production of condensation products of heterocyclic bases. 3,040,051, 6–19–62, Cl. 260—296.
Jubb, Anthony H., to Imperial Chemical Industries Ltd. Preparation of 2,2′-bipyridyl. 3,040,052, 6–19–62, Cl. 260—296.
Jubelt, Warren L., to National Broach & Machine Co. Gear gauging apparatus. 3,020,644, 2–13–62, Cl. 33—179.5.
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Jucker, Ernst, and A. Ebnöther, to Sandoz A.G. Process for the preparation of new tropane derivatives. 3,032,556, 5–1–62. Cl. 260—292.
Jucker, Ernst, A. Ebnöther, E. Rissi, A. Vogel, and R. Steiner, to Sandoz Ltd. Dioxo-azetidines. 3,036,065, 5–22–62, Cl. 260—239.
Jucker, Ernst, A. J. Lindenmann, and E. Rissi, to Sandoz Ltd. Amino-pyrazoles. 3,041,342, 6–26–62, Cl. 260—293.
Jucker, Ernst, and A. J. Lindenmann, to Sandoz Ltd. 4-(thienyl-2′′)-and 4-(pyridyl-3′′)-5-aminopyrazoles, 3,041,-343, 6–26–62, Cl. 260—293.
Jucker, Ernst, and R. Suess, to Sandoz Ltd. 2.8-diazaspiro (4.5) decane-1.3 diones. 3,056,796, 10–2–62, Cl. 260—294.
Jucknisss, Paul R. : *See*—
Cobel, George B., and Jucknisss. 3,043,756.
Juculano, Theodore C., to Marvel Equipment Corp. Metal scaffold extension. 3,028,928, 4–10–62. Cl. 182—178.
Judd, Chester K., Jr., to The Fletcher-Terry Co. Ball axle assembly. 3,026,153, 3–20–62. Cl. 308—18.
Judd, Donald G., to Webster Mfg., Inc. Multiple tool boring head with adjustable tool bits. 3,024,674, 3–13–62, Cl. 77—58.
Judd, Harold : *See*—
Green, Robert P., and Judd. 3,043,655.
Judd, Thomas E. Multi stage centrifugal pump. 3,017,837, 1–23–62, Cl. 103—102.
Jude, George F. : *See*—
Miller, Harry, and Jude. 3,023,616.
Judelshon, Oscar L., Inc. : *See*—
Judelson, David N. 3,052,197.
Judelson, David N., to Oscar L. Judelshon, Inc. Tube forming apparatus. 3,052,197, 9–4–62, Cl. 112—63.
Judet, Henri, to Societe d'Applications Generales d'Electricite et de Mecanique S.A.G.E.M. Stitching machines. 3,038,-428, 6–12–62. Cl. 112—37.
Judge, Sidney G. : *See*—
Damon. Harry E., Jr., and Judge. 3,059.461.
Damon, Harry E., Jr., and Judge. 3,064,461.
Judge, Thomas J., to General Railway Signal Co. Broken down joint protection for switch lock release track circuits. 3,042,799, 7–3–62, Cl. 246—41.
Judice, Richard H., and H. R. Wiesner, to Diamond Alkali Co. Process for coordinated operation of diaphragm and mercury cathode electrolytic cells. 3,051,637, 8–28–62, Cl. 204—98.
Judkins, Edwin R., to Borg-Warner Corp. Pumps. 3,041,-974. 7–3–62, Cl. 103—4.
Judson, Barney, and C. R. Pieper. Cushion pad with prepressurized load supporting cells. 3,041,221, 6–26–62, Cl. 154—49.
Judy, Harold A., to Sylvania Electric Products Inc. Selective signal eliminator. 3,017,506, 1–16–62, Cl. 250—20.
Jueng, Carl F., to H. H. Robertson Co. Building for oxygen steel making. 3,058,412, 10–16–62, Cl. 98—42.
Jueng, Carl F., and W. A. Miller, to H. H. Robertson Co. Roof ventilator. 3,042,-26–26–62, Cl. 98—43.
Juenge, Eric C., to Ethyl Corp. Process of making lead phenolate. 3.028.405, 4–3–62, Cl. 260—435
Juffa, Richard : *See*—
Peter, Julius, Heidemann, Ellegast, and Juffa. 3,039,297.
Juhase, Walter. Hand vise for drill presses, milling machines and surface grinders. 3,051,473, 8–28–62, Cl. 269—95.
Juhl, Kenneth P. : *See*—
Walsh, John C., Haselton, Holland, and Juhl, 3,051,096.
Juhola, Arvo J. : *See*—
Smith, Stanton B., and Juhola. 3.015,367.
Jukkola, Winifred W., to Dorr-Oliver Inc. Temperature control in the fluidized roasting process of sulfidic ores with the by-product recovery of steam. 3,047,365, 7–31–62, Cl. 23—179.
Julia, Marc T., to Societe des Usines Chimiques Rhone-Polenc. Process for the preparation of cyclopropane-carboxylic acids of trans-form. 3,040,-24–62, Cl. 260—468.
Julian Engineering Co. : *See*—
Julian, John A. 3,069 997.
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Julian, John A., to Julian Engineering Co. Apparatus for preventing exfiltration of smoke-laden air from smokehouse enclosures. 3,069,997, 12–25–62, Cl. 99—259.
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Julian Laboratories, Inc., The : *See*—
Julian, Percy L. 3 019,220.
Julian, Percy L., Huang, and Magnani. 3,030,389.
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Julian, Percy L., to The Julian Laboratories, Inc. Isolation of sapogenins. 3,019,220, 1–30–62, Cl. 260—239.55.
Julian, Percy L., E. Huang, and A. Magnani, to The Julian Laboratories, Inc. Processes for the preparation of 16-alkylpregnenes. 3,030,389, 4–17–62, Cl. 260—397.4.
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Julian, Percy L., and J. W. Cole, to Chas. Pfizer & Co., Inc. a-epoxy unsaturated compounds. 3,055,918, 9–25–62, Cl. 260—397.4.
Juliano, Madeo C. Chair arm shelf. 3,018,130, 1–23–62, Cl. 297—144.
Julie, Loebe, to Julie Research Laboratories, Inc. Precision temperature-regulated oven system and method of control. 3,033,968, 5–8–62, Cl. 219—20.
Julie, Loebe, to Julie Research Laboratories, Inc. Precision wire-wound resistance apparatus and resistors. 3,047,826, 7–31–62, Cl. 338—329.
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Julie Research Laboratories, Inc. : *See*—
Julie, Loebe. 3,033,968.
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Julius, William R. : *See*—
Giles, Jeremiah D., and Julius. 3,017,020.
Jullander, Elof I., to Mo Och Domsjö Aktiebolag. Methods of treating cellulose. 3,032,548, 5–1–62, Cl. 260—212.
Julou, Louis : *See*—
Metivier, Jean, and Julou. 3,038,806.
Julson, Leonard : *See*—
Nelson, Richard P., and Julson. 3,054,681.
July Corp. : *See*—
Ross, John H., Jr., and Stillie. 3,029,547.
Jumer, John F. Chemical polishing composition and method for aluminum metals. 3,041,227, 6–26–62, Cl. 156—21.
Junck, John A. : *See*—
Hein, Allyn J., Junck, and Winters. 3,068,596.
Juncher, Ernie. Jack device. 3,055,092, 9–25–62, Cl. 29—296.
June, Jack W. Adjustable tree limb holder. 3,040,477, 6–26–62, Cl. 47—42.
Jung, Heinz : *See*—
Werner, Paul, and Jung. 3,051,526.
Jung, Jean-Guerre : *See*—
Keller, Ernst, Hindermann, and Jung. 3,038,802.
Jung, Jean-Pierre, and G. Schetty, to J. R. Geigy, A.-G. Monoazo dyestuffs. 3,045,005, 7–17–62, Cl. 260—198.
Jung, Johann, H. M. von Blumencron, C. Pfaff, and H. Scheuermann, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Slow-acting fertilizers comprising crotylidene diurea. 3,054,669, 9–18–62, Cl. 71—28.
Jung, Margarete : *See*—
Gruneberg, Gerhard, Jung, Spengler, and Justi. 3,067,-276.
Jung, Werner : *See*—
Smith, Harrison C., and Jung. 3,055,981.
Jungbecker, Jose. Perforated tubes for the wet treatment, more particularly dyeing, of yarns and filaments. 3,015,-945, 1–9–62, Cl. 68—198.
Jungemann, Luther J., and L. G. Hupfer, to Whirlpool Corp. Defrost control apparatus. 3,062,019, 11–6–62, Cl. 62—140.
Jungfer, Dr. Leopold, Akkumulatorenfabrik : *See*—
Martinak, Norbert. 3,045,058.
Junghahnel, Rudolf, to Chemische Werke Witten. Method and composition for preserving textiles. 3,037,884, 6–5–62, Cl. 117—138.5.
Junghans, Ernst : *See*—
Rust, Kurt, Junghanns, Sommer, and Bier. 3,047,557.
Junghans AG, Gebruder : *See*—
Junghans, Helmut, Braitsch, and Schlenker. 3,022,627.
Weber, Rudolf. 3,066,420.
Junghaus, Helmut, J. Müller, and P. Kaiser. Percussion fuzes. 3,015,277, 1–2–62, Cl. 102—78.
Junghans, Helmut, O. Braitsch, and H. Schlenker, to Gebr. Junghans A.G. Table alarm clock. 3,022,627, 2–27–62, Cl. 58—55.
Junghans, Helmut, and R. Weber. Rotary shell fuze. 3,022,-733, 2–27–62, Cl. 102—71.
Junghans, Helmut, and P. Kaiser. Spinning projectile fuzes. 3,030,881, 4–24–62, Cl. 102—71.
Junghans, Helmut, K. von Zeppelin, and R. Weber. Centering shutter for photographic cameras. 3,037,438, 6–5–62, Cl. 95—11.5.
Jungheinrich, Friedrich : *See*—
Hansen, Rudolf. 3,043,388.
Laurencin, Guy M. 3,043,460.
Jungjohann, Vernon H., to Eastman Kodak Co. Indexing gear means for slide changer. 3,025,760, 3–20–62, Cl. 88—28.
Jungke, Gunter : *See*—
Hack, Heinrich, and Jungke. 3,037,403.
Jungmann, Martin, to Institute for Gravitational Strain Pathology, Inc. Pelvic device. 3,032,034, 5–1–62, Cl. 128—104.
Jungmayr, Theodor, and P. Lohse, to Hesser, Fr., Maschinenfabrik-Aktiengesellschaft, Firma. Packaging machines. 3,045,720, 7–24–62, Cl. 141—145.
Juniper, Lawrence E. : *See*—
Marble, Franklin D., Juniper, and De Armond. 3,049,158.
Junker, Otto. Vacuum melting induction furnace. 3,036,-847, 10–2–62, Cl. 13—27.
Junkmann, Karl : *See*—
Prieve, Hans, Poljak, and Junkmann. 3,047,466.
Junkune, Bela B. Foldable chair and rack. 3,029,105, 4–10–62, Cl. 297—189.
Junod, Aul. Plunger pump, more particularly for liquid atomiser. 3,037,830, 6–5–62, Cl. 309—4.
Jupa, Julius A., to Minnesota Mining and Mfg. Co. Trifluorochloroethylene polymer-epoxy resin mixture. 3,023,-189, 2–27–62. Cl. 260—45.5.
Juptner, Wilhelm, to C. P. Clare & Co. Switching device. 3,033,956, 5–8–62, Cl. 200—93.
Juras, Appy. to Union Carbide Corp. Plastic articles reinforced with preformed precompressed metal fiber elements. 3,053,713, 9–11–62, Cl. 154—43.
Juras, Appy, A. P. Mazzucchelli, and T. E Bugel, to Union Carbide Corp. Composite plastic-metal fiber articles and method for making same. 3,041,131, 6–26–62, Cl. 18—47.
Juraschek, Richard J. : *See*—
Kannegiesser, Herbert K., and Juraschek. 3,066,430.
Jurcy, Edward J., to Fidelitone Microwave Inc. Microwave cavity. 3,048,802, 8–7–62, Cl. 333—83.
Jureit, John C., to Automated Building Components, Inc. Structural element. 3,025,577, 3–20–62, Cl. 20—92.
Jurenz, Rolf : *See*—
Bohm, Siegfried, Hainy, Jurenz, and Jehmlich. 3,034,412.
Jurgeleit, Hans W., to United States of America, Army. Tertiary phosphine polymerization catalysts system. 3,027,-359, 3–27–62, Cl. 260—88.7.
Jurgeleit, Herbert F., to United States Rubber Co. Presses for treating sheet or strip materials. 3,050,778, 8–28–62, Cl. 18—17.
Jurgeleit, Wolfgang, to Vereinigte Glanzstoff-Fabriken A.G. Polyolefin wet spinning process. 3,048,465, 8–7–62, Cl. 18—54.
Jurgens, Henry A., D. K. Rex, and D. G. O'Connor, to International Business Machines Corp. Collator employing table level comparison. 3,034,644, 5–15–62, Cl. 209—110.
Jurgens, William C., and F. W. Treptow, to Bell Telephone Laboratories, Inc. Guided cord weight assembly. 3,046,-356, 7–24–62, Cl. 179—95.
Jurick, Rudolph J. : *See*—
Virtanen, Valdemar. 3,066,515.
Juriga, Richard S. : *See*—
Beretvas, Helen S., and Juriga. 3,068,218.
Jurisch, Wilhelm, to Daimler-Benz Aktiengesellschaft. Fuel control system. 3,064,421, 11–20–62, Cl. 60—39.28.
Jurist, Alfred E., to Olin Mathieson Chemical Corp. Procaine penicillin production. 3,022,290, 2–20–62, Cl. 260—239.1.
Jurnak, Andrew P. : *See*—
Cressman, Earl W., Jurnak, and Mueller. 3,050,836.
Jurny, Josef, to Adamorvske strojirny. Device for the pressure adjustment of printing rollers. 3,046,881, 7–31–62, Cl. 101—218.
Jurs, Albert E., Jr., and T. E. Veltfort, Jr., to Shand and Jurs Co. Telemetering system and apparatus. 3,045,488, 7–24–62, Cl. 73—342.
Jurs, Peter C., J. P. Van Overveen, and V. A. Fletcher, to Shand and Jurs Co. Depressuring valve. 3,055,629, 9–25–62, Cl. 251—25.
Jursik, James, J. E. Ward, and R. Shaw, Jr., to United States of America, Air Force. Variably-coupled damper-stabilized servo (dual-mode damper stabilizer servo system). 3,054,-304, 9–18–62, Cl. 74—574.
Jury, Webster W., to Engelhard Industries, Inc. Combination scoop and strainer. 3,057,317, 10–9–62, Cl. 114—185.
Just, Alex : *See*—
Olsson, Billy E., and Just. 3,070,772.
Just Mfg. Co. : *See*—
Just, Matyas J. 3,020 563.
Just, Matyas J. 3,029,445.
Just, Matyas J. 3 029.446.
Just, Matyas J., to Just Mfg. Co. Clamping arrangement for sink structure. 3,020 563, 2–13–62, Cl. 4—187.
Just, Matyas J., to Just Mfg. Co. Sink mounting arrangement. 3,029,445, 4–17–62, Cl. 4—187.
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Justen, John J. : *See*—
Connally, Carl, Jr., and Justen. 3,047,063.
Justheim, Clarence L., and M. G. Huntington, to RNB Corp. Nuclear fuel elements having an autogenous matrix and method of making the same. 3,028,330, 4–3–62, Cl. 204—193.2.
Justi, Eduard : *See*—
Gruneberg, Gerhard, Jung, Spengler, and Justi. 3,067,-276.
Vielstich, Wolf, Justi, and Winsel. 3,068,157.
Justi, Eduard, and G. Neumann, to Siemens-Schuckertwerke Aktiengesellschaft. Method for producing thermoelectric components on zinc-antimony basis. 3,021,378, 2–13–62, Cl. 136—5.
Justice, James W. H., to Sylvania-Thorn Colour Television Laboratories Ltd. Color index tube with beam wobble. 3,030,439, 4–17–62, Cl. 178—5.4.
Justice, James W. H., and R. Graham, to Sylvania-Thorn Colour Television Laboratories Ltd. Photo-multiplier circuits. 3,067,360, 12–4–62, Cl. 315—10.
Justin, Frank H. : *See*—
Klink, John D., and Justin. 3,060,513.
Klink, John D., and Justin. 3,070,588.
Justus, Edgar J. : *See*—
Beachler, Edward D., and Justus. 3,025,910.
Cronin, Dennis C., and Justus. 3,053,319.
Justus, Edgar J., to Beloit Iron Works. Uniflow Fourdrinier. 3 052,296, 9–4–62, Cl. 162—354.
Justus, Edgar J., to Beloit Iron Works. Web tension control means. 3,057,574, 10–9–62, Cl. 242—75.43.
Justus, Edgar J., and J. P. Brezinski, to Beloit Iron Works. Coater with margin control means. 3,029,780, 4–17–62, Cl. 118—126.

Justus, William H.: *See*—
Caferro, Edward M., Howell, Justus, and Williams. 3,041,595.
Caferro, Edward M., and Justus. 3,041,596.
Jüttner, Bernhard. Method of producing mellitic acid. 3,067,246, 12–4–62, Cl. 260—515.
Jutzi, Donald J., to Chicago Rawhide Mfg. Co. Apparatus for forming seals. 3,063,097, 11–13–62, Cl. 18—36.
Juvet, Richard S., Jr., and F. M. Wachi. Gas chromatographic analysis of inorganic materials. 3,048,029, 8–7–62, Cl. 73—23.
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Juvinall, James W., to Ransburg Electro-Coating Corp. Electrostatic spray coating system. 3,031,336, 4–24–62, Cl. 117—93.
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Juzi, Viktor, to Sulzer Freres, S.A. Method and means for producing sealing vapor. 3,062,553, 11–6–62, Cl. 277—1.
K.C. Construction Supply Co.: *See*—
Boettner, Joseph L. 3,047,931.
K.C.G. Corp.: *See*—
Kennedy, Emerson S. 3,045,613.
K-D Mfg. Co.: *See*—
Kulp, Harry W. 3,040,420.
Kulp, Harry W. 3,048,918.
K & H Equipment Ltd.: *See*—
Hutter, James F., and Kelly. 3,049,215.
K & K Mfg., Inc.: *See*—
Kloss, Henry E. 3,037,481.
K & N Machine Works, Inc.: *See*—
Kindlien, Gordon E., and Rothi. 3,061,059.
K-P-F Electric Co.: *See*—
Pahl, John G. 3,023,391.
KSM Products, Inc.: *See*—
English, Lawrence P., and Ritter. 3,029,375.
KVP Sutherland Paper Co.: *See*—
Buttery, Kenneth T., and Rice. 3,042,284.
Buttery, Kenneth T., and Rice. 3,049,283.
Chapin, Donald A., Hassan, and Orr. 3,053,026.
Cornell, David D., and Buttery. 3,026,014.
Taylor, Edward L. 3,015,602.
K & W Products, Inc.: *See*—
Wiese, Donald R. 3,044,687.
Kaase, Robert W., and W. C. Sessions, to Fintube Co. Heat exchanger fittings. 3,018,090. 1–23–62, Cl. 257—247.
Kaashoek, Johannes, and T. Poorter, to North American Philips Co., Inc. Circuit arrangement for the formation of a signal from a plurality of other signals. 3,051,912, 8–28–62, Cl. 330—69.
Kaat, Herbert W., to The American Crucible Products Co. Submersible pump. 3,021,788, 2–20–62, Cl. 103—25.
Kabelitz, Hans, to Gebruder Sucker G.m.b.H. System for the regulation of winding machines particularly for textile threads. 3,028,110, 4–3–62, Cl. 242—45.
Kabelitz, Hans, and T. von Kannen, to Gebruder Sucker G.m.b.H. Viscosity sensing or measuring apparatus. 3,016,734, 1–16–62, Cl. 73—55.
Kabell, Louis J., to A. B. Dick Co. Digital pulse-translating circuit. 3,056,891, 10–2–62, Cl. 307—88.5.
Kabell, Louis J., H. E. Mundy, and W. B. Guggi, to Ampex Corp. Rotary head drive control mechanism and circuitry for recording magnetic tape recording and/or reproducing apparatus. 3,016,428, 1–9–62, Cl. 179—100.2.
Kabelschlepp G.m.b.H.: *See*—
Waninger, Gilbert. 3,020,362.
Waninger, Gilbert. 3,024,325.
Waninger, Gilbert M. 3,016,509.
Kabushiki Kaisha Denkishiki Kagakukeiki: *See*—
Yamashita, Hiromu, and Takahashi. 3,030,573.
Kabushiki Kaisha Kagahu Kenkyusho: *See*—
Yahiro, Teijiro, Ikeda (Hatsuko), Shiroyanagi, Ikeda (Hiroshi), Fujimaki, Katayama, Tsuji, and Sato. 3,049,535.
Kabushiki Kaisha Koparu: *See*—
Sato, Takayoshi, and Nakatani. 3,051,064.
Kabushiki Kaisha Meidensha (known as Meidensha Electric Mfg. Co. Ltd.): *See*—
Oda, Soichi, and Kamura. 3,030,568.
Kabushiki Kaisha Okuma Tekkosho: *See*—
Sato, Fumio. 3,051,012.
Kabushiki Kaisha Takada Kojo: *See*—
Asai, Shinichiro. 3,029,487.
Kabushiki Kaisha Tohoku Kosakusho: *See*—
Fukushima, Tomio. 3,050,021.
Käch, Alfred, to Patelhold Patentverwertungs- & Elektro-Holding A.-G. Switching arrangement for frequency stabilization of frequency modulated self-excited transmitter. 3,045,193, 7–17–62, Cl. 332—19.
Kachinskas, Gerald K., to Manning, Maxwell & Moore Inc. Power hoist with manual operating device. 3,062,344, 11–6–62, Cl. 192—3.
Kachline, Harold S., and A. R. Van Baelen, to Schick Inc. Spring holding means for electric shaver shearing head. 3,044,168, 7–17–62, Cl. 30—43.
Kaczmarek, Leo W.: *See*—
Kmiecik, Leopold J., and Kaczmarek. 3,049,145.
Kaczmarek, Theo B.: *See*—
Drosten, Fred W., and Kaczmarek. 3,062,641.
Kadel, Gerald H., to United States of America, Navy. Apparatus for testing plastic laminates at elevated temperatures in an oxygen-free atmosphere. 3,015,947, 1–9–62, Cl. 73—15.6.
KaDell, Harold W., to Illum-a-Rail, Inc. Light flashing device. 3,016,478, 1–9–62, Cl. 315—206.
Ka Dell, Harold W., to Illum-A-Rail, Inc. Display device. 3,034,756, 5–15–62, Cl. 248—223.
Kaden, Willy, to Agfa Aktiengesellschaft. Protective device for photographic equipment. 3,015,999, 1–9–62, Cl. 95—11.
Kaden, Willy, to Agfa Aktiengesellschaft. Photographic projectors. 3,038,373, 6–12–62, Cl. 88—28.
Kaden, Willy, and E. Filsinger, to Agfa Aktiengesellschaft. Control device for a motion picture camera. 3,025,752, 3–20–62, Cl. 88—17.
Kadesch, Richard G.: *See*—
Duesel, Bernard F., Emmanuele, and Kadesch. 3,064,-058.
Kadison Laboratories, Inc.: *See*—
Delaney, William. 3,052,560.
Kadlec, Ladislav, to Avien, Inc. Means for sampling a plurality of D.C. signals. 3,042,866, 7–3–62, Cl. 324—117.
Kadosch, Marcel: *See*—
Bertin, Jean H., Bauger, Kadosch, and Maunoury. 3,041,-823.
Bertin, Jean H., and Kadosch. 3,020,713.
Bertin, Jean H., Kadosch, and Duthion. 3,066,485.
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Bertin, Jean H., Kadosch, and Maunoury. 3,020,709.
Bertin, Jean H., Kadosch, Maunoury, De La Salle, and Turinetti. 3,024,602.
Bertin, Jean H., Kadosch, Turinetti, and Marchal. 3,048,974.
Kadri, Fred V., to Bell Telephone Laboratories, Inc. Current supply apparatus. 3,030,589, 4–17–62, Cl. 331—57.
Kadri, Fred V., to Bell Telephone Laboratories, Inc. Power supply system. 3,031,629, 4–24–62, Cl. 331—113.1.
Kaecker, David C. Rocker arm assembly for automobile engines. 3,027,972, 4–3–62. Cl. 184—6.
Kaeding, Warren W., to The Dow Chemical Co. Unsymmetrical dialkylaminophenols. 3,053,895, 9–11–62, Cl. 260—574.
Kaeding, Warren W., to The Dow Chemical Co. Manufacture of phenols by decarboxylation of salicylic acids. 3,061,-651, 10–30–62. Cl. 260—621.
Kaegebein, Carl F. Means for controlling the laying habit of hens. 3,031,990, 5–1–62, Cl. 119—21.
Kaehni, Frank J., to Economy Engine Co. Oscillator circuit. 3,035,108, 5–15–62, Cl. 123—148.
Kaemmerer, Kurt: *See*—
Wiegand, Christian, and Kaemmerer. 3,054,722.
Kaenel, Reginald A., to Bell Telephone Laboratories, Inc. Analog-to-digital converter. 3,021,517, 2–13–62, Cl. 340—347.
Kaenel, Reginald A., to Bell Telephone Laboratories, Inc. Analog-to-digital converter. 3,046,543, 7–24–62, Cl. 340—347.
Kaercher, William C., Jr.: *See*—
Ditter, Francis J., and Kaercher. 3,069,820.
Kaerwer, Howard E., Jr.: *See*—
Porter, Frederic E., McAlpine, and Kaerwer. 3,054,219.
Kaes, William J.: *See*—
Himmelfarb, David, and Kaes. 3,048,963.
Kaeser, Robert S., to United States of America, Commerce. Glassblower's safety manostat and system. 3,052,064, 9–4–62. Cl. 49—21.
Kaesmacher, Herbert: *See*—
Jaffe, Fritz, and Kaesmacher. 3,053,690.
Jaffe, Fritz, and Kaesmacher. 3,055,844.
Kaess, Franz: *See*—
Fischer, Thomas, Kaess, and Kronacher. 3,051,549.
Kaess, Franz, T. Fischer, and H. Kronacher, to Suddeutsche Kalkstickstoff-Werke A.G. Method and apparatus for the continuous production of calcium cyanamide. 3,021,192, 2–13–62, Cl. 23—78.
Kaess, Franz, and T. Fischer, to Suddeutsche Kalkstickstoff-Werke Aktiengesellschaft. Manufacture of calcium cyanamide-calcium nitrate mixtures. 3,060,011, 10–23–62, Cl. 71—56.
Kaestlé, Charles E. Device for teaching, particularly for the teaching of drawing. 3,045,363, 7–24–62, Cl. 35—26.
Kaestner, Paul T., to American Optical Co. Method and apparatus for supporting optical elements. 3,063,343. 11–13–62, Cl. 88—97.
Kaestner, Thankmar W., to Federal Paper Board Co., Inc. Packaging apparatus. 3,038,284, 6–12–62, Cl. 53—383.
Kafig, Emanuel, and R. L. Long. Thin replaceable back surface mirror and holders. 3,031,930, 5–1–62, Cl. 88—104.
Kafka Associates: *See*—
Kafka, Walter R. and G. 3,059,366.
Kafka, George: *See*—
Kafka, Walter R. and G. 3,059,366.
Kafka, Robert S., to Tickamatic Corp. One-revolution clutch. 3,037,598, 6–5–62, Cl. 192—24.
Kafka, Walter R. and G., to Kafka Associates. Ornamental Christmas tree. 3,059,366, 10–23–62, Cl. 41—15.
Kafka, Wilhelm, to Siemens-Schuckertwerke Aktiengesellschaft. Power supply control apparatus. 3,054,945, 9–18–62, Cl. 323—89.

Kagan, Fred : *See*—
Beal, Philip F., and Kagan. 3,053,864.
Magerlein, Barney J., Birkenmeyer, and Kagan. 3,016,392.
Magerlein, Barney J., Birkenmeyer, and Kagan. 3,068,251.
Magerlein, Barney J., and Kagan. 3,017,423.
Magerlein, Barney J., Kagan, and Schlagel. 3,038,914.
Strube, Richard E., Birkenmeyer, and Kagan. 3,052,709.
Kagan, Sholly : *See*—
Gibson, Robert E., and Kagan. 3,042,880.
Kagan, Sholly, to Avco Mfg. Corp. Direct current medical amplifier. 3,029,808, 4–17–62, Cl. 128—2.06.
Kagen, Kenneth S., and F. A. Ness, to Keystone Paper Box Co. Slotted dispenser partition for carryout. 3,031,122, 4–24–62, Cl. 229—15.
Kageyama, Ikuzo, and S. Nakanishi, ½ to Osaka Kinzoku Kogyo Co., Ltd., and ½ to Kansai Paint Co., Ltd. Antifouling paint. 3,041,188, 6–26–62, Cl. 106—15.
Kagiya, Tsutomu : *See*—
Irie, Tsuneo, Kagiya, and Asada. 3,016,396.
Kahan, George J. : *See*—
Theodoseau, Nicholas, Kahan, Da Silva, and de Cormier. 3,023,727.
Kahan, George J., to International Business Machines Corp. Method of forming superconductive circuits. 3,058,851, 10–16–62, Cl. 117—212.
Kahan, George J., and F. S. De Cormier, to International Business Machines Corp. Evaporation method. 3,058,842, 10–16–62, Cl. 117—107.
Kahan, William M. : *See*—
Reach, Roy W., and Kahan. 3,063,036.
Kahl, Henry : *See*—
Gibby, Richard A., Kahl, and Mahoney. 3,057,957.
Kahl, Walter H. : *See*—
Yendall, Edward F., Roberts, La Plante, and Kahl. 3,057,167.
Kahle, Bruno A. Revolving Christmas tree stand. 3,017,150, 1–16–62, Cl. 248—45.
Kahle, Hermann A., to The Siegler Corp. Excitation limiting device for static exciter-regulator systems. 3,032,699, 5–1–62, Cl. 322—19.
Kahlen, Johannes W. Marking hammers. 3,063,364, 11–13–62, Cl. 101—28.
Kahn, Allan : *See*—
Meier, Dale J., and Kahn. 3,018,258.
Kahn, Allan A., and H. P. Wolff, to International Business Machines Corp. Multi-purpose logical array using programmed signal cancellation. 3,023,320, 2–27–62, Cl. 307—88.
Kahn, David, and K. Weisser, to David Kahn, Inc. Method of assembling a follower film in the cartridge of a ball point pen. 3,056,194, 10–2–62, Cl. 29—434.
Kahn, David, Inc. : *See*—
Kahn, David, and Weisser. 3,056,194.
Kahn, Elliot, and A. Bobrowich, to Arrow Louver and Damper Corp. Damper assembly. 3,047,914, 8–7–62, Cl. 20—62.
Kahn, Ernest A. : *See*—
Klimkowski, Robert J., and Kahn. 3,027,256.
Kahn, Harry A., E. J. Koch, and W. C. Saeman, to Olin Mathieson Chemical Corp. Web treatment. 3,032,006, 5–1–62, Cl. 118—8.
Kahn, Henry : *See*—
Turnbull, Norman K., and Kahn. 3,031,931.
Kahn, Leonard R., to Kahn Research Laboratories, Inc. Diversity receiving system. 3,030,503, 4–17–62, Cl. 250—20.
Kahn, Leonard R. Audio signal peak energy equalization. 3,060,389, 10–23–62, Cl. 332—38.
Kahn, Louis S., ½ to J. E. Goldberg and ½ to M. L. Mark. Method and machine for cutting springs to length and for forming end loops thereon. 3,067,780, 12–11–62, Cl. 140—103.
Kahn, Mack. Brassiere. 3,019,792, 2–6–62, Cl. 128—480.
Kahn, Marvin M., to The Acme-Hamilton Mfg. Corp. Flexible hose and method of making same. 3,029,843, 4–17–62, Cl. 138—122.
Kahn, Marvin M., to The Acme-Hamilton Mfg. Co. Flexible hose. 3,047,026, 7–31–62, Cl. 138—122.
Kahn, Milford L. Small object dispenser. 3,053,383, 9–11–62, Cl. 206—42.
Kahn, Myron : *See*—
Marks, Alvin M., Kahn, and Marks. 3,024,701.
Kahn, Myron, A. M. and M. M. Marks. Light polarizing fabrics. 3,016,071, 1–9–62, Cl. 139—420.
Kahn, Peter B., to The Plessey Co. Ltd. Fuel control governors. 3,035,592, 5–22–62, Cl. 137—54.
Kahn Research Laboratories, Inc. : *See*—
Kahn, Leonard R. 3,030,503.
Kahn, Samuel : *See*—
Somers, Raymond A., Kahn, and Locke. 3,039,188.
Kahn, William M., to Minneapolis-Honeywell Regulator Co. Information handling apparatus. 3,037,697, 6–5–62, Cl. 235—153.
Kahnt, Friedrich W. : *See*—
Wettstein, Albert, Vischer, Kahnt, Meystre, and Neher. 3,060,100.
Kahr Bearing Corp. : *See*—
Straub, Frederick A., Sahagian, and Karlstrom. 3,063,133.
Kahr, Kurt, to Inventa A.G. fur Forschung und Patentverwertung. Method of producing oximes of alicyclic ketones. 3,047,481, 7–31–62, Cl. 204—162.
Kahre, Alfred H. Ring guard having lapped resilient tongues. 3,028,736, 4–10–62, Cl. 63—15.2.
Kahrs, Karl-Heinz : *See*—
Starck, Werner, Kahrs, Kuhlkamp, and Ehmann. 3,050,508.
Kahrs, Karl-Heinz, and A. Kühlkamp, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Polyvinyl ester dispersions and method for making them. 3,061,561, 10–30–62, Cl. 260—17.
Kaidan, David, to General Electronic Laboratories, Inc. Quick attaching and detaching circuit system. 3,062,991, 11–6–62, Cl. 317—101.
Kain, Arthur F. Conveyor idler mounting means and support. 3,033,352, 5–8–62, Cl. 198—192.
Kaiser Aluminum & Chemical Corp. : *See*—
Croley, Thomas E. 3,066,842.
Deal, Bruce E., and Swanson. 3,031,387.
Duskey, Edmund L. 3,021,990.
Eichhorn, Edgar G., and Finnegan. 3,066,405.
Esch, Henry. 3,047,042.
Facer, Grant T., and Kilpatrick. 3,041,784.
Folkrod, Clinton B. 3,025,229.
Gernes, Donald C. 3,061,411.
Gernes, Donald C., and King. 3,057,681.
Henrickson, Henry G. 3,033,264.
Henrickson, Henry G. 3 045,871.
Henrickson, Henry G. 3,062,177.
Hodge, Allen W., and Smith. 3,057,050.
La Rue, Donald G. 3,024,614.
Lewis, Robert A. 3,034,972.
Lowry, John W., Peterson, and Foster. 3,043,678.
Martinet, Jacques R. 3,058,736.
Richter, Donald L. 3,026,651.
Richter, Donald L. 3,058,350.
Richter, Donald L. 3,063,519.
Robinson, James E. 3,034,218.
Smith, Clarence J., Henrickson, and Drummond. 3,053,209.
Sproull, John D. 3,055,771.
Stauffer, William O. 3,028,642.
Swoboda, Leo F. 3,043,631.
Wittrock, Henry J. 3,057,761.
Kaiser, Dr. Bruno : *See*—
Keller, Richard, Quest, Schroer, and Lochschmidt. 3,048,206.
Plock, Karl, Keller, and Quest. 3,032,077.
Quest, Karl, and Rusack. 3,053,669.
Kaiser, Carl, and C. L. Zirkle, to Smith Kline & French Laboratories. Substituted cyclopropylamines and cyclopropylcarbamates. 3,059,020, 10–16–62, Cl. 260—468.
Kaiser, Carl, and C. L. Zirkle, to Smith Kline & French Laboratories. 2-phenyl cyclopropyl-10-ureas, and 2-phenylcyclo-propylcarbamoylamines. 3,068,283, 12–11–62, Cl. 260—553.
Kaiser, Carl B. : *See*—
Hayford, Richard E., and Kaiser. 3,057,720.
Kaiser, Donald W., to Olin Mathieson Chemical Corp. Formylsuccinonitriles and pyrimidylacetonitriles as intermediates for Vitamin B_{12}. 3,036,075, 5–22–62, Cl. 260—256.4.
Kaiser, Donald W., to Olin Mathieson Chemical Corp. Process for chlorine addition to allyl alcohol. 3,037,059, 5–29–62, Cl. 260—633.
Kaiser, Emil, and J. T. Traxler, to Armour & Co. Isobutyl hydantoic acid-formaldehyde reaction product and mixture of same with urea-formaldehyde resin. 3,053,794, 9–11–62, Cl. 260—45.2.
Kaiser, Emil, and E. P. Gunther, to Armour-Pharmaceutical. Preparation of esters of amino acids and peptides from protein materials. 3,053,825, 9–11–62, Cl. 260—112.
Kaiser, Emil, and E. Gunther, to Armour-Pharmaceutical. Derivatives of dienestrol. 3,053,885, 9–11–62, Cl. 260—479.
Kaiser, Franz, to Phrix-Werke Aktiengesellschaft. Method of producing crimped viscose fibers. 3,055,728, 9–25–62, Cl. 18—54.
Kaiser, George A. : *See*—
Hoey, Raymond M., and Kaiser. 3,051,307.
Kaiser Gypsum Co., Inc. : *See*—
Dailey, Manvel C. 3,017,305.
Raffaelli, Albert F. 3,066,450.
Kaiser, Hans, to Interwood AG. System for continuously preparing pre-dimensioned bodies with layer formations. 3,051,219, 8–28–62, Cl. 156—375.
Kaiser, Harold R., to Lockheed Aircraft Corp. Low power magnetic core shift register. 3,069,662, 12–18–62, Cl. 340—174.
Kaiser, Henry J., Co. : *See*—
Hansen, Walter P. 3.049,244.
Sands, Milo B. 3.059,913.
Kaiser, Herbert R. : *See*—
Doyle, Collin M., and Kaiser. 3,053,440.
Kaiser, Hermann F. : *See*—
Riepe, Helmuth, and Kaiser. 3,020,884.

Kaiser Industries Corp.: *See*—
Aid, Douglas G., and Balding. 3,037,382.
Aiken, William R. 3,023,316.
Cameron, William M., and Zinniger. 3,055,529.
Colabella, Alfred V., Jr. 3,065,554.
Seike, Helmut K. 3,024,375.
Seike, Helmut K. 3,046,412.
Zinniger, Theodore C. 3,016,062.
Kaiser, James F., to Bell Telephone Laboratories, Inc. Normalized sound control system. 3,057,960, 10–9–62, Cl. 179—1.
Kaiser, Julius A., Jr.: *See*—
Marston, Arthur E., Coleman, and Kaiser. 3,017,633.
Marston, Arthur E., and Kaiser. 3,055,003.
Kaiser, Lother, to Maschinenfabrik A.G. Menziken. Apparatus for the generation of order pulses by means of punched cards. 3,061,189, 10–30–62, Cl. 235—61.11.
Kaiser, Paul: *See*—
Junghans, Helmut, and Kaiser. 3,030,886.
Junghans, Helmut, Müller, and Kaiser. 3,015,277.
Kaiser, Robert P., and A. G. Daulton, to The Bendix Corp. Servo system. 3,070,735, 12–25–62, Cl. 318—436.
Kaiser, Rudolf. Spherical-plug cock having a piston-type packing ring displaceably mounted at one side of the cock body. 3,047,265, 7–31–62, Cl. 251—172.
Kaiser Steel Corp.: *See*—
Clanton, Raymond W., A. R. and H. L. 3,050,808.
Kaiser, Walter L. Clothing protector. 3,022,514, 2–27–62, Cl. 2—60.
Kaiser, Walter S.: *See*—
Stieglitz, Hermann W., Kaiser, and Moore. 3,036,202.
Kaisha, Prince Jidosha K. K.: *See*—
Iida, Hideo. 3,058,437.
Kaizerman, Samuel: *See*—
Salsbury, Jason M., Kaizerman, and Mino. 3,046,078.
Kaizerman, Samuel, and G. Mino, to American Cyanamid Co. Process for polymerization of a vinylidene monomer in the presence of a cobaltic salt and an organic reducing agent. 3,030,319, 4–17–62, Cl. 260—17.4.
Kaji, Walter U.: *See*—
Sweeney, Victor D., and Kaji. 3,048,384.
Kajihara, Hitoshi, to General Precision, Inc. Temperature compensating element for a traveling wave tube periodic array. 3,061,754, 10–30–62, Cl. 313—84.
Kajiwara, Tadayuki: *See*—
Asai, Toshinobu, Aida, Iizuka and Kajiwara. 3,036,958.
Kakawateez, Ltd.: *See*—
Hashimoto, Tenzo N. 3,063,843.
Kakes, Edward. Water ski. 3,026,546, 3–27–62, Cl. 9—310.
Kalamazoo Mfg. Co.: *See*—
Keller, Ralph E., and Coy. 3,047,968.
Kalart Co. Inc., The: *See*—
Kaprelian, Edward K., and Castedello. 3,039,711.
Maurer, John A. 3,051,042.
Schwartz, Morris, and Castedello. 3,033,077.
Schwartz, Morris, and Kaprelian. 3,046,836.
Kalata, Frank, ½, to S. E. Binish. Hog feeder. 3,039,434, 6–19–62, Cl. 119—52.
Kalb, John W., to The Ohio Brass Co. Lightning arrester and gap unit therefor. 3,019,367, 1–30–62, Cl. 315—36.
Kalb, Karl: *See*—
Flötzen, Rudolf, and Kalb. 3,043,735.
Kalbach, Harold F.: *See*—
Sarappo, John W., and Kalbach. 3,040,104.
Kalbach, Raymond B. Heating appliance. 3,016,446, 1–9–62, Cl. 219—46.
Kalbaugh, Robert E.: *See*—
Dorsey, William R., and Kalbaugh. 3,018,559.
Kalberlah, Fritz, to Allgemeine Elektricitats-Gesellschaft. Base and socket for fluorescent lamps. 3,020,393, 2–6–62, Cl. 240—11.4.
Kalbfell, David C. Drill pipe module data collection and transmission system. 3,015,801, 1–2–62, Cl. 340—18.
Kalbfell, David C. Electronic analog multiplier. 3,017,108, 1–16–62, Cl. 235—194.
Kalbfell, David C. Magnetic marking system. 3,019,385, 1–30–62, Cl. 324—34.
Kalbfleisch, Adolphe W., to Duff Devices, Inc. Bowling pin handling machine. 3,048,398, 8–7–62, Cl. 273—43.
Kalbow, Theodore W., to Western Electric Co., Inc. Assembling apparatus. 3,064 339, 11–20–62. Cl. 29—203.
Kaleba, Joseph J., and F. R. Beck, to Controls Co. of America. Inertia sensitive snap switch. 3,066,202, 11–27–62, Cl. 200—67.5.
Kalenda, Norman W.: *See*—
Allen, Frank D., Herz, and Kalenda. 3,062,654.
Herz, Arthur H., and Kalenda. 3,043,696.
Herz, Arthur H., and Kalenda. 3,057,725.
Kales, Morris L.: *See*—
Chait, Herman N., and Kales. 3,036 278.
Kales, Morris L., and H. N. Chait. Matched antenna array. 3,020 549, 2–6–62, Cl. 343—771.
Kaletsch, Reinhold. Pump. 3,037,686, 6–5–62, Cl. 230—162.
Kaley, Robert C., to De Walt, Inc. Shaper guard for radial saw machines. 3,068,919, 12–18–62, Cl. 144—251.
Kalfadelis, Charles D., and D. H. Meyer, to Standard Oil Co. Catalytic esterification of terephthalic acid. 3,022,333, 2–20–62, Cl. 260—475.
Kalfaian, Meguer V. Frequency normalization in speech sound waves. 3,052,757, 9–4–62, Cl. 179—1.
Kalfaian, Meguer V. Symmetric saw-tooth wave generation for frequency conversion systems. 3,054,063, 9–11–62, Cl. 307—88.5.
Kalfaian, Meguer V. Symmetric saw-tooth-wave generator for use as cathode-ray tube sweep in frequency conversion systems. 3,062,240, 11–13–62, Cl. 340—172.5.
Kalfaian, Meguer V. Phonetic typewriter of speech. 3,067,-288. 12–4–62, Cl. 179—1.
Kali-Chemie Aktiengesellschaft: *See*—
Jenkner, Herbert. 3,035,083.
Jenkner, Herbert. 3,042,723.
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Jenkner, Herbert. 3,064,054.
Jenkner, Herbert, and Schmidt. 3,027,393.
Kalichman, Ralph: *See*—
Wyler, Paul, and Kalichman. 3,039,263.
Kalide, Wolfgang, to Sulzer Freres, Societe Anonyme. Superheat temperature controlling steam superheater. 3,049,-106, 8–14–62, Cl. 122—459.
Kalil, Emil O., to The M. W. Kellogg Co. Propellants for rocket motors. 3,024,594, 3–13–62, Cl. 60—35.3.
Kalil, Emil O., to The M. W. Kellogg Co. Propellants for rocket motors. 3,034,291, 5–15–62, Cl. 60—35.4.
Kalil, Emil O., to Curtiss-Wright Corp. Fabrication of porous sheet material by brazing. 3,061,912, 11–6–62, Cl. 29—163.5.
Kalil, James, to E. I. du Pont de Nemours and Co. Asphalt-polyethylene composition for road-making. 3,050,483, 8–21–62, Cl. 260—28.5.
Kalimar, Inc.: *See*—
Lipsitz, Robert J. 3,031,921.
Winslow, George H. 3,067,664.
Kalish, David, to Consolidated Electronics Industries Corp. Object inserting machine. 3,017,690, 1–23–62, Cl. 29—205.
Kalla, John: *See*—
Roehl, Edward J., Michel, and Kalla. 3,034,211.
Kallal, Robert J.: *See*—
Beecher, Jack E., Kallal, Sayre, and Singer. 3,025,571.
Kallal, Vincent J. Automatic hog gate. 3,016,878, 1–16–62, Cl. 119—155.
Kallander, Ernest L., and G. R. Nelson, to Dennison Mfg. Co. Decorated foam and method of making the same. 3,049,463, 8–14–62, Cl. 156—230.
Kalle Aktiengesellschaft: *See*—
Brandt, Wilhelm. 3,022,192.
Hoegl, Helmut, Sus, and Neugebauer. 3,037,861.
Sus, Oskar, and Glos. 3,024,362.
Sus, Oskar, Klupfel, Neugebauer, Tomanek, and Behmenburg. 3,041,165.
Kalle, Karl W. Apparatus for indicating differences in pressure. 3,037,389, 6–5–62. Cl. 73—401.
Kalleberg, Melvin O., and C. E. Turner, to Minnesota Mining and Mfg. Co. Fiber-reinforced pressure-sensitive adhesives and tapes. 3,062,683, 11–6–62, Cl. 117—122.
Kallel, Allen, to Wemac Co. Hose clamp. 3,052,944, 9–11–62, Cl. 24—263.
Kallenberg, John, and R. R. Segerdahl, to Sperry Rand Corp., Ford Instrument Co. Division. Integrating accelerometer. 3,029,645, 4–17–62, Cl. 73—503.
Kallfelz, Alois J., to Allied Chemical Corp. Manufacture of metallic titanium. 3,022,158, 2–20–62, Cl. 75—84.5.
Kallhardt, Heinrich: *See*—
Lohs, Willy, Paul, and Kallhardt. 3,043,917.
Kallhardt, Heinrich, to Siemens & Halske Aktiengesellschaft Berlin and Munich. Governor for telephone dials. 3,020,-983, 2–13–62, Cl. 188—184.
Kallis, Ingemar, to General Electric Co. Sealing means. 3,053 543, 9–11–62, Cl. 277—154.
Kallin, Kurt G. L., and L. A. Lindblad, to Bofors, Aktiebolaget. Commutator. 3,036,165, 5–22–62, Cl. 200—26.
Kalling, Bo M.: *See*
Eketorp, Sven G. H., Backstrom, and Kalling. 3,039,-753.
Queneau, Paul E., and Kalling. 3,030,201.
Kallio, William J., to United-Greenfield Corp. Twist drill. 3,051,205, 8–28–62, Cl. 145—117.
Kallmann, Hartmut P., M. Furst, and F. H. Brown, to L. E. Ravich. Scintillator solution enhancers. 3,068,178, 12–11–62, Cl. 252—301.2.
Kallmeyer, Friedrich W.: *See*—
Moller, Hans G., and Kallmeyer. 3,055,000.
Moller, Hans G., and Kallmeyer. 3,067,416.
Källsson, Bengt E. L., to Telefonaktiebolaget L M Ericsson. Multiplex carrier frequency transmission system. 3,045.-070, 7–17–62, Cl. 179—15.
Kalm, Max J., to G. D. Searle & Co. 2-cyclohexyl-4-(2-hydroxyethyl)-3-methylmorpholine esters of substituted benzoic acids. 3,047,574, 7–31–62, Cl. 260—247.2.
Kalm, Max J., and K. J. Rorig, to G. D. Searle & Co. 4-imidoalkyl-3-methyl-2-phenylmorpholines and process. 3,025,293, 3–13–62, Cl. 260—247.2.
Kalman Floor Co., Inc.: *See*—
Moro-Lin, Joseph J., and Hoeninghausen. 3,046,855.
Moro Lin, Joseph J., and Hoeninghausen. 3,066,583.
Moro Lin, Joseph J., and Hoeninghausen. 3,066,584.
Ytterberg, Carl F. 3,039,374.
Kalmar, Harold B.: *See*—
Olsson, Billy E., and Kalmar. 3,060,402.
Kalmus, Henry P.: *See*—
Varian, Sigurd F., and Kalmus. 3,024,456.

Kalmus, Henry P. Short range tracking system. 3,046,549, 7–24–62, Cl. 343—113.
Kalmus, Henry P., and A. L. Hedrich. Phasemeter for measuring very small phase differences. 3,021,481, 2–13–62, Cl. 324—83.
Kalmus, Henry P., and M. L. Libman. Dual path remote control system. 3,042,868, 7–3–62, Cl. 325—64.
Kalning, Frederick E., and H. E. Redman, to United Mattress Machinery Co., Inc. Tape edge sewing machine. 3,031,985, 5–1–62, Cl. 112—3.
Kalning, Frederick E., and H. E. Redman, to United Mattress Machinery Co., Inc. Device for discharging articles from the table assembly of a tufting machine. 3,062,161, 11–6–62, Cl. 112—3.
Kalns, Rudolph W., and A. W. Vasel. Circuit controlling device. 3,062,961, 11–6–62, Cl. 250—206.
Kalopissis, Gregoire, to L'Oreal. Process for permanent deformation of hair. 3,063,908, 11–13–62, Cl. 167—87.1.
Kaloshin, Dimitri A. Escape preventing device. 3,068,810, 12–18–62, Cl. 109—6.
Kalson, Jacob E.: *See*—
Johnson, Melvin S. 3,066,597.
Kalson, William K.: *See*—
Johnson, Melvin S. 3,066,597.
Kalt, Gilbert, to The Budd Co. Vehicle ceiling with lighting fixture. 3,035,161, 5–15–62, Cl. 240—7.35.
Kaltenbacher, Dominic M., to United States of America, Navy. Manual R. F. gain control. 3,020,404, 2–6–62, Cl. 250—20.
Kaltenbacher, Benno, to Bomag Bopparder Maschinenbaugesellschaft m.b.H. Land roller for rolling road surfaces and the like. 3,048,089, 8–7–62, Cl. 94—50.
Kaltenhäuser, Herbert: *See*—
Wolfram, Arthur, Kaltenhäuser, Lorenz, and Relken. 3,042,483.
Kalter, Harold E., to Troxel Mfg. Co. Cycle saddles. 3,066,-978, 12–4–62, Cl. 297—195.
Kalvar Corp.: *See*—
James, Raymond W., and Parker. 3,032,414.
Neth, Floyd T. 3,037,862.
Kalvoda, Jaroslav: *See*—
Wettstein, Albert, Anner, Heusler, Kalvoda, and Ueberwasser. 3,067,198.
Kalwaites, Frank: *See*—
Harmon, Carlyle, and Kalwaites. 3,042,576.
Kalwaites, Frank, to Chicopee Mfg. Corp. Method and machine for producing nonwoven fabric and resulting product. 3,033,721, 5–8–62, Cl. 154—46.
Kalwaites, Frank, to Chicopee Mfg. Corp. Methods and apparatus for producing fibrous webs. 3,066,359, 12–4–62, Cl. 19—155.
Kamada, Hideo, S. Wakaki, K. Tomioka, S. Ueyama, K. Uzu, H. Marumo, and Y. Fujimoto, to Kyowa Hakko Kogyo Kabushiki Kaisha. Purification of crude carzinophilin. 3,044,935, 7–17–62, Cl. 167—65.
Kaman Aircraft Corp., The: *See*—
McAllise, Raymond J. 3,047,727.
Nutkins, Derek J., and Packard. 3,057,589.
Polleys, Owen F., Payton, and Robinson. 3,016,217.
Richmond, Nelson R. 3,027,986.
Robinson, Donald W., Jr., and Packard. 3,017,147.
Kaman, Frank A., to Thor Power Tool Co. Pneumatic motor governor. 3,020,920, 2–13–62, Cl. 137—50.
Kamata, Minoru: *See*—
Yonezaki, Shigeru, and Kamata. 3,032,487.
Kamborian, Jacob S.: *See*—
Dunlap, Robert B. 3,051,970.
Kamborian, Jacob S. Adhesive coating apparatus. 3,023,726, 3–6–62, Cl. 118—3.
Kamborian, Jacob S. Method of applying adhesive in shoe manufacture. 3,050,756, 8–28–62, Cl. 12—145.
Kamborian, Jacob S. Wipers. 3,059,256, 10–23–62, Cl. 12—12.4.
Kamborian, Jacob S., and H. W. Stemmler; said Stemmler assor. to said Kamborian. Flexible shoe conformer. 3,037,222, 6–5–62, Cl. 12—8.2.
Kamborian, Jacob S., and H. W. Stemmler; said Stemmler assor. to said Kamborian. Spreader foot motion for the lasting machine. 3,046,577, 7–31–62, Cl. 12—8.8.
Kamborian, Jacob S., and K. F. Vornberger; said Vornberger assor. to said Kamborian. Control for lasting machine. 3,046,578, 7–31–62, Cl. 12—12.4.
Kamborian, Jacob S., and H. W. Stemmler; said Stemmler assor. to said Kamborian. Shoe conforming and wiper heating apparatus. 3,051,969, 9–4–62, Cl. 12—8.2.
Kamborian, Jacob S., C. J. Dyer, and A. G. Baker, said Dyer and said Baker assors. to said Kamborian. Shoe conforming apparatus. 3,060,468, 10–30–62, Cl. 12—8.2.
Kamen, Nathaniel G., to Teletype Corp. Extensible cable. 3,036,146, 5–22–62, Cl. 174—69.
Kamenstein, David, and G. C. Terry, to Kamkap, Inc. Folding leg structure. 3,062,603, 11–6–62, Cl. 311—83.
Kamentsky, Louis A., to Bell Telephone Laboratories, Inc. Character recognition system. 3,018,471, 1–23–62, Cl. 340—149.
Kamerabau-Anstalt: *See*—
Schmuck, Peter. 3,038,371.
Kamide, Harris P., to General Electric Co. Temperature control systems. 3,050,611, 8–21–62, Cl. 219—20.
Kamimura, Shigeyoshi: *See*—
Kato, Masumi, and Kamimura. 3,049,742.
Kaminky, Oscar H., to Penn Controls, Inc. Compressor unloader. 3,046,368, 7–24–62, Cl. 200—81.
Kaminski, Henry J., to Keystone Camera Co., Inc. Camera support and actuating means. 3,043,205, 7–10–62, Cl. 95—86.
Kaminski, Joseph, Jr.: *See*—
Vose, Fred C., and Kaminski. 3,054,851.
Kamisato, Ernest H. Prefabricated wall. 3,061,894, 11–6–62, Cl. 20—4.
Kamiss, Charles B.: *See*—
Park, Edwin A., and Kamiss. 3,039,001.
Kamkap, Inc.: *See*—
Kamenstein, David, and Terry. 3,062,603.
Olswang, Ralph R. 3,045,373.
Olswang, Ralph R. 3,046,381.
Kamlet, Edna Y.: *See*—
Kamlet, Jonas. 3,017,246.
Kamlet, Jonas. 3,057,685.
Kamlet, Jonas, deceased; E. Y. Kamlet, executrix. Process for the joint manufacture of hydrofluoric acid and Portland cement clinker. 3,017,246, 1–16–62, Cl. 23—153.
Kamlet, Jonas, to El Paso Natural Gas Products Co. Products and process for purifying gases. 3,039,251, 6–19–62, Cl. 55—29.
Kamlet, Jonas, to E. I. du Pont de Nemours and Co. Feed containing carboxymethoxylamine. 3,051,573, 8–28–62, Cl. 99—4.
Kamlet, Jonas, deceased; E. Y. Kamlet, executrix. Cyclic process for the beneficiation of titania ores and slags. 3,057,685, 10–9–62, Cl. 23—202.
Kamm, Lawrence J., to United Aircraft Corp. Low torque position sensor. 3,019,403, 1–30–62, Cl. 336—30.
Kamm, Wunibald I. E., K. Staiger, and W. F. Krautter, to United States of America, Army. Tire pressure control device. 3,036,588, 5–29–62, Cl. 137—225.
Kammer, Karl. Surgical thread dispenser. 3,045,866, 7–24–62, Cl. 221—69.
Kammerer, Archer W., A. W. Kammerer, Jr., and J. K. Lamphere, ⅔ to said A. W. Kammerer, ⅙ to said J. K. Lamphere, and ⅙ to said A. W. Kammerer, Jr. Retrievable well bore drilling apparatus. 3,050,143, 8–21–62, Cl. 175—261.
Kammerer, Archer W., Jr.: *See*—
Kammerer, Archer W., A. W. Kammerer, Jr., and Lamphere. 3,050,143.
Kammerer, Archer W., Jr., ⅙ to said Kammerer, ⅙ to J. K. Lamphere, and ⅔ to A. W. Kammerer. Retrievable drilling apparatus for well bores. 3,050,142, 8–21–62, Cl. 175—260.
Kammerer, Fred W., R. P. Riesz, and R. L. Wallace, Jr., to Bell Telephone Laboratories, Inc. Signal translating device. 3,015,738, 1–2–62, Cl. 307—88.5.
Kämmerlin, Heinrich L., to AEG-Werke Gesellschaft mit beschrankter Haftung, Firma. Vibratory road rollers. 3,069,984, 12–25–62, Cl. 94—50.
Kammgarnspinnerei Kaiserslautern: *See*—
Schutz, Erwin. 3,019,490.
Kamp, Arthur J. Ball game. 3,059,927, 10–23–62, Cl. 273—85.
Kamp, Ewald A., to The Englander Co., Inc. Mattress. 3,019,456, 2–6–62, Cl. 5—355.
Kamp, Ewald A., to The Englander Co., Inc. Convertible bed. 3,037,570, 4–3–62, Cl. 5—17.
Kamp, Ewald A., to The Englander Co., Inc. Vibration spring structure for massage lounge. 3,048,167, 8–7–62, Cl. 128—33.
Kamp, Ewald A., to The Englander Co., Inc. Vibrating spring structure. 3,048,168, 8–7–62, Cl. 128—33.
Kamp, Ewald A., to The Englander Co., Inc. Adjustable box spring. 3,059,249, 10–23–62, Cl. 5—246.
Kampe, Anders O., to Lidkopings Mekaniska Verkstads Aktiebolag. Means for attaching blade-shaped guides or supporting members in grinding machines, especially centerless grinders. 3,040,487, 6–26–62, Cl. 51—238.
Kamper-Motoren G.m.b.H.: *See*—
Bartholomäus, Werner, Hessler, and Naumann. 3,043,-412.
Kampert, Keith W., to The Frank G. Hough Co. Reciprocating hydraulic motor. 3,055,719, 9–25–62, Cl. 309—4.
Kampert, Keith W., to The Frank G. Hough Co. Self-loading sand spreader and snow blade attachment for tractor. 3,065,556, 11–27–62, Cl. 37—117.5.
Kampert, Keith W., and R. F. Zimmerman, to The Frank G. Hough Co. Bucket operating means for tractor loaders. Re. 25,207, 7–24–62, Cl. 214—140.
Kampf, Richard S.: *See*—
Le Massena, Robert A., and Kampf. 3,035,912.
Kampf, Richard S., to Minneapolis-Honeywell Regulator Co. Recorder. 3,066,299, 11–27–62, Cl. 346—109.
Kampf, William C. Cart support. 3,047,304, 7–31–62, Cl. 280—33.99.
Kamphaus, Paul L., and A. W. Latham, to Westinghouse Electric Corp. Dynamoelectric machine. 3,023,329, 2–27–62, Cl. 310—91.
Kampmeier, Frederick J., to The Ingersoll Milling Machine Co. Hydraulically actuated clamp for axially adjustable shafts. 3,034,408, 5–15–62, Cl. 90—11.
Kampmeyer, Roy A., to The Bendix Corp. Black level stabilizing circuit for television systems. 3,047,655, 7–31–62, Cl. 178—7.1.
Kamps, Henry E.: *See*—
Krabacher, Roy A., Waters, and Kamps. 3,056,261.
Kampschmidt, Leonard W. F., to Stamicarbon N.V. Purification of phthalic anhydride, glycerol and phenol. 3,037,-032, 5–29–62, Cl. 260—346.7.

Kamradt, William E.: *See*—
Broeder, Raymond L., Tache, and Kamradt. 3,038,522.
Kamura, Masao: *See*—
Oda, Soichi, and Kamura. 3,030,568.
Kamyr, Aktiebolaget: *See*—
Richter, Johan C. F. C. 3,041,233.
Richter, Johan C. F. C. and O. J. 3,041,232.
Kamysz, John E., Jr. Granular soap or detergent dispenser and mixing apparatus. 3,036,739, 5–29–62, Cl. 222—67.
Kancepolsky, Joseph. Spectacle frame and support therefor. 3,038,376, 6–12–62, Cl. 88—51.
Kanda, Alvin F.: *See*—
Guderian, Walter L., Kanda, Schulz, and Spencer. 3,035,229.
Kanda, Frank A.: *See*—
Clark, Charles C., Kanda, and King. 3,017,248.
Clark, Charles C., Kanda, and King. 3,021,197.
Clark, Charles C., Kanda, and King. 3,022,138.
Clark, Charles C., Kanda, and King. 3,022,139.
Kander, Rudolf H.: *See*—
Hoag, Selwyn B., Jr., and Kander. 3,066,682.
Kandra, Fred J., to The Budd Co. Method of closing or joining integrated metal core panels and the structure produced. 3,024,879, 3–13–62, Cl. 189—36.
Kane, Florence: *See*—
Wilkins, Lowell A., and Kane. 3,029,864.
Kane, Garold A.: *See*—
Bauer, Myron J., Erickson, Kane, Neuman, and Scheurich. 3,052,440.
Bauer, Myron J., Kane, Neuman, and Scheurich. 3,022,-031.
Kane, Garold A., to United States of America, Navy. Control systems. 3,055,180, 9–25–62, Cl. 60—53.
Kane, Garold A., and R. C. Wilson, to United States of America, Navy. Pilot rack and differential. 3,031,848, 5–1–62, Cl. 60—53.
Kane, George W., Jr.: *See*—
Jones, Reginald H., and Kane. 3,024,487.
Kane, Henry S.: *See*—
Wilkins, Lowel A., and Kane. 3,029,684.
Kane, James S., J. H. Carpenter, and O. H. Krikorian, to United States of America, Atomic Energy Commission. Method for coating graphite with niobium carbide. 3,017,286, 1–16–62, Cl. 117—22.
Kane, John F., to General Electric Co. Transmission line windows. 3,058,074, 10–9–62, Cl. 333—98.
Kane, John S.: *See*—
Schaefer, Peter R., and Kane. 3,030,489.
Kane, Joseph F., to Schlage Lock Co. Latchbolt extension. 3,046,042, 7–24–62, Cl. 292—1.
Kane, Ralph W., F. A. Nelson, and E. H. Rogers, to Varian Associates. Magnet apparatus. 3,017,544, 1–16–62, Cl. 317—158.
Kane, Richard E.: *See*—
Easley, Gilbert, Kane, and Schrameck. 3,040,149.
Soles, Otto H., and Kane. 3,023,291.
Kane, Simat R. Detergent applying unit. 3,017,118, 1–16–62, Cl. 239—61.
Kane, Thomas C., to The Commercial Shearing and Stamping Co. Apparatus for spin extruding metal articles. 3,046,924, 7–31–62, Cl. 113—52.
Kane, William S., to The Cincinnati Milling Machine Co. Valve and method of manufacture. 3,052,013, 9–4–62, Cl. 29—157.1.
Kane, William P., to E. I. du Pont de Nemours and Co. Coating composition containing hydrocarbon polymer and polyisocyanate-modified nitrogen-containing polymer, film coated therewith, and process for making same. 3,027,343, 3–27–62, Cl. 260—33.6.
Kane, William P., to E. I. du Pont de Nemours and Co. Film coating process. 3,065,104, 11–20–62, Cl. 117—76.
Kane, William P., to E. I. du Pont de Nemourse and Co. Process for improving the dimensional stability of regenerated cellulose films. 3,068,529, 12–18–62, Cl. 18—48.
Kanegafuchi Spinning Co., Ltd.: *See*—
Meguro, Seitaro, Ozawa, Yasuhara, Sukegawa, Shibara, and Yoshihara. 3,063,844.
Kaneko, Hisashi, to Nippon Electric Co., Ltd. Synchronizing system in time-division multiplex code modulation system. 3,063,302, 11–20–62, Cl. 179—15.
Kaneko, Hisashi, to Nippon Electric Co., Ltd. Multiplex pulse code modulation system. 3,065,303, 11–20–62, Cl. 179—15.
Kaneko, Hisashi, to Nippon Electric Co., Ltd. Multiplex pulse code modulation system. 3,069,504, 12–18–62, Cl. 179—15.
Kang, Lawrence S. C. Methods of planting. 3,020,859, 2–13–62, Cl. 111—3.
Kangas, Pell: *See*—
Seniff, Russell W., Fracalossi, and Kangas. 3,022,097.
Kangas, Toivo J. Survival capsule. 3,064,282, 11–20–62, Cl. 9—4.
Kanin, Irving L. Container for poisoned insert food. 3,040,-470, 6–26–62, Cl. 43—131.
Kaning, Frederick E., to United Mattress Machine Co., Inc. Frame changing device for quilting machine. 3,070,049, 12–25–62, Cl. 112—117.
Kaniwec, George N.: *See*—
Sidell, Philip A., Kaniwec, and Burgeson. 3,034,280.
Kannegiesser & Co., Maschinenfabrik G.m.b.H.: *See*—
Kannegiesser, Herbert K., and Juraschek. 3,066,430.
Kannegiesser, Herbert K., and R. J. Juraschek, to Maschinenfabrik G.m.b.H. Kannegiesser & Co. Heating body, especially for pressing plates. 3,066,430, 12–4–62, Cl. 38—66.
Kannel, Ira S.: *See*—
Churchman, Wayne D., and Kannel. 3,066,636.
Kanner, Bernard: *See*—
Pepe, Enrico J., and Kanner. 3,053,874.
Pepe, Enrico J., and Kanner. 3,054,817.
Pepe, Enrico J., and Kanner. 3,054,818.
Kanner Leather Goods Corp.: *See*—
Kanner, Seymour, and Sonkin. 3,021,883.
Kanner, Seymour, and B. Sonkin, to Kanner Leather Goods Corp. Brief case construction. 3,021,883, 2–20–62, Cl. 150—1.6.
Kano, Saburo, to Ishikawajima Jukogyo Kabushiki Kaisha. Stepless speed change gear. 3,060,758, 10–30–62, Cl. 74—199.
Kansai Paint Co., Ltd.: *See*—
Kageyama, Ikuzo, and Nakanishi. 3,041,188.
Kanski, Harry. Method of applying spectacles pads. 3,043,-191, 7–10–62, Cl. 88—48.
Kant, Fred H., D. L. Baeder, J. A. Hinlicky, and C. L. Read, to Esso Research and Engineering Co. Hydrocracking of polynuclear aromatic containing hydrocarbon oils. 3,043,-770, 7–10–62, Cl. 208—112.
Kanta, George E. Device for controlling the height and density of building blocks. 3,044,137, 7–17–62, Cl. 25—41.
Kanter, Jerome J., A. F. Lahr, and E. V. Havel, to Crane Co. Composite body of magnesium and steel. 3,066,392, 12–4–62, Cl. 29—196.2.
Kanthal, Aktiebolaget: *See*—
Amberg, Styrbjorn, and Schrewelius. 3,051,924.
Medin, Karl H. J. 3,027,332.
Schrewelius, Nils G. 3,025,182.
Schrewelius, Nils G. 3,027,331.
Schrewelius, Nils G. 3,036,017.
Schrewelius, Nils G., and Medin. 3,027,330.
Kantner, George C., and M. D. Hurwitz, to Rohm & Haas Co. Dyeing and finishing textile materials. 3,046,075, 7–24–62, Cl. 8—17.
Kantner, Harold H.: *See*—
Bock, Frederick C., Cameron, and Kantner. 3,053,453.
Kantor, Maxwell, to Skydyne, Inc. Case. 3,024,939, 3–13–62, Cl. 220—10.
Kantor, Simon W.: *See*—
Holub, Fred F., and Kantor. 3,036,992.
Kantor, Simon W., and F. F. Holub, to General Electric Co. Wholly aromatic polyesters from hydroquinone, isophthalic and terephthalic acid reactants. 3,036,990, 5–29–62, Cl. 260—47.
Kantor, Simon W., and F. F. Holub, to General Electric Co. Polyesters from hydroquinone, dihydroxybiphenyl and isophthalic acid reactants. 3,036,991, 5–29–62, Cl. 260—47.
Kantrow, Abraham H. Container with safety closure. 3,027,-000, 3–27–62, Cl. 206—42.
Kantrowitz, Arthur R.: *See*—
Fishman, Frank J., Janes, Kantrowitz, and Petschek. 3,035,206.
Kanzenbach, Melvin J. Turning signal for motor vehicles. 3,041,579, 6–26–62, Cl. 340—82.
Kapany, Narinder S. Method and means for transmitting images through a bundle of transparent fibers. 3,016,785, 1–16–62, Cl. 88—1.
Kapany, Narinder S., D. A. Pontarelli, and P. J. Joseph, to Chicago Aerial Industries, Inc. Device for detecting the presence of foreign material. 3,045,223, 7–17–62, Cl. 340—234.
Kapaun, Herbert L., and C. W. Ellingson, Jr., to Reese Metal Weather Strip Co. Sealing apparatus. 3,030,674, 4–24–62, Cl. 20—68.
Kapff, Sixt F., to Standard Oil Co. Analytical system. 3,061,-723, 10–30–62, Cl. 250—71.
Kapff, Sixt F., and I. Ginsburgh, to Standard Oil Co. Instrument to measure combustibles in liquid oxygen. 3,021,199, 2–13–62, Cl. 23—230.
Kapff, Sixt F., and R. B. Jacobs, to Standard Oil Co. Means for determining dissolved gas concentrations in liquids. 3,060,723, 10–30–62, Cl. 73—19.
Kaplan, Arthur M: *See*—
Rogers, Morris R., Kaplan, and Cohen. 3,067,094.
Kaplan, Benjamin B., to Albi Mfg. Co., Inc. Method of treating a casting mold and the treated mold. 3,042,541, 7–3–62, Cl. 117—5.1.
Kaplan, Cudek. Kaleidoscopic device. 3,020,796, 2–13–62, Cl. 88—15.
Kaplan, Donald E.: *See*—
Fux, Aime, and Kaplan. 3,041,067.
Kaplan, Donald J.: *See*—
Kaplan, Reuben A. and D. J., and Grabow. 3,028,723.
Kaplan, Reuben A. and D. J., and Grabow. 3,028,724.
Kaplan, Earl, to American Cyanamid Co. Rubber antioxidant dispersions. 3,018,254, 1–23–62, Cl. 252—403.
Kaplan, Frances: *See*—
Kaplan, Yale, and Jaquiery. 3,059,548.
Kaplan, Ira, to Key Accounts, Inc. Can opener key. 3,025,-994, 3–20–62, Cl. 220—52.
Kaplan, Julius. Electric comforter. 3,064,332, 11–20–62, Cl. 29—155.5.
Kaplan, Leo I., to Poly Industries, Inc. Anti-friction bearing assembly. 3,031,238, 4–24–62, Cl. 308—215.
Kaplan, Leo I., to Poly Industries, Inc. Nozzle ring assembly. 3,038,699, 6–12–62, Cl. 253—78.

Kaplan, Leo I., to Poly Industries, Inc. Method of making compressor blades. 3,057,767, 10–9–62, Cl. 156—172.

Kaplan, Leo I., to Poly Industries, Inc. Anti-friction bearing. 3,058,788, 10–16–62, Cl. 308—187.

Kaplan, Leo I., to Poly Industries, Inc. Hose clamp with adjustable closure device. 3,064,327, 11–20–62, Cl. 24—279.

Kaplan, Leonard L.: *See—*
Klumpp, Theodore G., Wolff, and Kaplan. 3,019,169.

Kaplan, Lewis A.: *See—*
Howard, Jack E., and Kaplan. 3,058,154.

Kaplan, Lloyd A., to United States of America, Navy. Method of production of 2,3,4,6-tetra nitroaniline. 3,062,885, 11–6–62, Cl. 260—578.

Kaplan, M. S., Co.: *See—*
Kaplan, Robert, and Sienko. 3,029,778.

Kaplan, Melvin: *See—*
De Long, Richard C., Kaplan, and Wagner. 3,035,078.

Kaplan, Melvin, to Allied Chemical Corp. Preparation of low density polyurethane foam. 3,034,996, 5–15–62, Cl. 260—2.5.

Kaplan, Michael L., deceased; P. Kaplan and National Bank of Westchester, executors. Method of producing extensible electric cables. 3,048,078, 8–7–62, Cl. 87—1.

Kaplan, Morris. Stretchable slipper construction. 3,015,171, 1–2–62, Cl. 36—9.

Kaplan, Philip: *See—*
Kaplan, Michael L. 3,048,078.

Kaplan, Reuben A. and D. J., and F. C. Grabow, to Owatonna Tool Co. Method and apparatus for assembling and disassembling the chains of crawler-type tractors. 3,028,723, 4–10–62, Cl. 59—7.

Kaplan, Reuben A. and D. J., and F. C. Grabow, to Owatonna Tool Co. Track press with pivotally mounted and adjustable work support. 3,028,724, 4–10–62, Cl. 59—7.

Kaplan, Robert, and E. N. Sienko, to M. S. Kaplan Co. Cover. 3,029,778, 4–17–62, Cl. 118—67.

Kaplan, Rose, B. and W. Pernhall. Retractable vehicle covering device. 3,050,075, 8–21–62, Cl. 135—5.

Kaplan, Ruth. Walking and sitting doll. 3,050,903, 8–28–62, Cl. 46—149.

Kaplan, Uzzie, deceased (F. Kaplan, executrix), and W. Jaquiery, to Monsanto Chemical Co. Spreader for plastic tubes. 3,059,548, 10–23–62, Cl. 93—20.

Kaplin, Charles I., and E. W. Mylius, to Standard Bag Co. Machine for making cloth bags. 3,041,987, 7–3–62, Cl. 112—2.

Kappick, Willard, and W. P. Fernald. Portable whirlpool bath device. 3,034,139, 5–15–62, Cl. 4—178.

Kapp, Numer M., and R. E. Ashwill, to Air Products and Chemicals, Inc. Desulfation of clay catalyst. 3,034,993, 5–15–62, Cl. 252—450.

Kapp, Roland: *See—*
Klein, Howard, and Kapp. 3,032,562.
Klein, Howard, and Kapp. 3,037,996.

Kappel Corp.: *See—*
Kappel, Joseph R. 3,027,746.

Kappel, Henry C., to The Richardson Co. Method of making molded bearings. 3,044,922, 7–17–62, Cl. 156—225.

Kappel, Joseph R., to Kappel Corp. Flow control device. 3,027,746, 4–3–62, Cl. 70—267.

Kappeler, Hans: *See—*
Tschumi, Otto, Kappeler, Blöchlinger, and Zimmermann. 3,022,493.
Tschumi, Otto, Kappeler, and Streit. 3,046,353.

Kappeler, Hans, and R. Streit, to Autophon Aktiengesellschaft. Telephone substation including pre-setting means for multiple symbol combinations. 3,028,453, 4–3–62, Cl. 179—81.

Kappelmann, Benjamin O., and J. B. Dalglish. Cotton harvester. 3,015,928, 1–9–62, Cl. 56—33.

Kappen, John W. Articulated arm structure. 3,040,922, 6–26–62, Cl. 214—731.

Kapral, Ales M., to Process Methods Corp. Paper, particularly printing paper, and method of making same. 3,024,160, 3–6–62, Cl. 162—163.

Kapral, Ales M., to Process Methods Corp. Method of printing on paper and resultant article. 3,029,154, 4–10–62, Cl. 117—15.

Kaprelian, Edward K.: *See—*
Schwartz, Morris, and Kaprelian. 3,046,836.

Kaprelian, Edward K. Offset electrophotography. 3,051,568, 8–28–62, Cl. 96—1.

Kaprelian, Edward K. Exposure charged electrophotography. 3,057,997, 10–9–62, Cl. 250—65.

Kaprelian, Edward K., and W. Castedello, to The Kalart Co. Inc. Film viewing and editing device. 3,039,711, 6–19–62, Cl. 242—55.12.

Kaprielian, Herbert A., and S. M. Anderson. Container supporting elevator. 3,032,223, 5–1–62, Cl. 214—714.

Kapsh, Ralph R., and W. S. Vagli, to United States Steel Corp. Method of making a plated article. 3,036,376, 5–29–62, Cl. 29—527.

Kapusta, Stanley A.: *See—*
Poelvoorde, Clement C., and Kapusta. 3,021,921.

Karabinos, Joseph V., J. J. Hazdra, and H. J. Ferlin, to Olin Mathieson Chemical Corp. Sugar sequestering agent. 3,062,878, 11–6–62, Cl. 260—528.

Karady, Sandor: *See—*
Sletzinger, Meyer, Reinhold, and Karady. 3,068,228.

Karagheusian, A. & M., Inc.: *See—*
Wilcox, Roger L. 3,067,430.
Wilcox, Roger L. 3,067,701.

Karas, Joseph W., to Motorola, Inc. Flexible coupler. 3,024,627, 3–13–62, Cl. 64—10.

Karasek, Francis W.: *See—*
Miller, Elmer C., and Karasek. 3,049,964.

Karasek, Francis W., to Phillips Petroleum Co. Sulfur production. 3,026,184, 3–20–62, Cl. 23—255.

Karasiewicz, Edward S., to American Typesetting Corp. Retractable swimming pool cover. 3,019,450, 2–6–62, Cl. 4—172.

Karass, Thomas J., to American Viscose Corp. Packing tape. 3,028,281, 4–3–62, Cl. 154—53.6.

Karau, Norbert B., and R. Stephens, to Western Electric Co., Inc. Apparatus for uncrimping ferruled end portions of articles. 3,034,561, 5–15–62, Cl. 153—32.

Karavias, Alexander N. Improvements in or relating to moving picture systems. 3,035,484, 5–22–62, Cl. 88—24.

Karayianis, Nick, and C. A. Morrison, to United States of America, Army. Frequency-doubling microwave cavity. 3,041,552, 6–26–62, Cl. 321—69.

Karber, Leonard A., to Herr Equipment Corp. Tensioning apparatus for tenuous material. 3,048,346, 8–7–62, Cl. 242—75.3.

Karber, Leonard A., to Herr Equipment Corp. Cutting device. 3,060,778, 10–30–62, Cl. 83—355.

Karbowiak, Antoni E., to International Standard Electric Corp. Electric waveguide construction. 3,066,268, 11–27–62, Cl. 333—95.

Karch, Walter C., to Square D Co. Electric switch. 3,017,471, 1–16–62, Cl. 200—76.

Karchenes, George, to M. May. Reflecting standard with retractable legs. 3,021,755, 2–20–62, Cl. 88—79.

Kardon, Emanuel S., and H. Volksdorf to American Bag & Paper Corp. Bag. 3,017,069, 1–16–62, Cl. 229—57.

Kardos, Otto: *See—*
Kleiner, Walter B., and Kardos. 3,041,256.

Kardys, Joseph A.: *See—*
Sarcona, Gasper, and Kardys. 3,037,973.

Kardys, Joseph A., to Chas. Pfizer & Co., Inc. Oxenin intermediate and process for obtaining oxenin. 3,046,310, 7–24–62, Cl. 260—617.

Karel, Chanie L.: *See—*
Craig, Harry L., Alderks, Corwin, Dieke, and Karel. 3,060,165.

Karg, Frank J., deceased (J. F. Karg, executor), and J. F. Karg. Spool carrier for braiding machines. 3,038,367, 6–12–62, Cl. 87—22.

Karg, James F.: *See—*
Karg, Frank J. and J. F. 3,038,367.

Karg, Wilhelm. Cutting mechanism for reapers. 3,058,288, 10–16–62, Cl. 56—297.

Kargl, Gilard, to United States of America, Army. Portable photogenerator-rectifier. 3,022,706, 2–27–62, Cl. 88—24.

Kargl, Gilard. Method for use in aerial photography. 3,046,661, 7–31–62, Cl. 33—1.

Kargl, Gilard. Apparatus for use in aerial photography. 3,046,857, 7–31–62, Cl. 95—1.1.

Karig, Erhardt: *See—*
Dittrich, Otto, Schrodt, and Karig. 3,052,132.

Karig, Erhardt, H. Steuer, R. Schrodt, and O. Dittrich, to The Reimers Getriebe K.G. Hydraulic control mechanism for infinitely variable gears. 3,043,152, 7–10–62, Cl. 74—230.17.

Karig, Erhardt, H. Steuer, and O. Dittrich, to The Reimers Getriebe K.G. Rocker joint for link chain. 3,043,154, 7–10–62, Cl. 74—253.

Karliner, Donald H., and T. W. Smith. Circumcision ring. 3,056,407, 10–2–62, Cl. 128—303.

Karlus, William, to Linker Machines, Inc. Sausage making machine. 3,054,545, 9–18–62, Cl. 226—172.

Karklys, Joseph: *See—*
Lamin, Leonard, and Karklys. 3,059,048.

Karl, Martin, and W. Rexroth. Rotary pump. 3,050,011, 8–21–62, Cl. 103—126.

Karl, Sylvester L. Proof drier. 3,057,081, 10–9–62, Cl. 34—195.

Karlak, Robert F.: *See—*
Quinn, Ross A., and Karlak. 3,022,201.

Karlan, Martin M., and C. Perrucci. Construction of brushes. 3,030,649, 4–24–62, Cl. 15—193.

Karleen, Edward H., to Minneapolis-Honeywell Regulator Co. Switch apparatus. 3,056,866 10–2–62, Cl. 200—67.

Karlen, Harvey R.: *See—*
Eisendrath David C., and Karlen. 3,059,822.

Karlen, Harvey R., to Cory Corp. Liquid filter. 3,022,894, 2–27–62. Cl. 210—452.

Karlicek, Robert F.: *See—*
Baker, Benjamin P., and Karlicek. 3,032,689.

Karlicek, Robert F., and J. Sandin, to Westinghouse Electric Corp. Static overcurrent trip device. 3,018,416, 1–23–62, Cl. 317—36.

Karlik, Laddie. Massage roller. 3,067,738, 12–11–62, Cl. 128—57.

Karlik, Laddie. Pressurized water, compressed air and stroking massage device. 3,067,739, 12–11–62, Cl. 128—66.

Karlowicz, Peter. Process for desensitizing zirconium for use in primers. 3,017,264, 1–16–62, Cl. 75—97.

Karlson, Wesley N. Coating material additive. 3,050,406, 8–21–62, Cl. 106—14.

Karlsson, Elof K.: *See—*
James, Howell N., and Karlsson. 3,066,000.

Karlsson, Elof K., to International Harvester Co. Center divider for corn pickers. 3,035,390, 5–22–62, Cl. 56—119.

Karlsson, Gustaf V. Socket pipe. 3,064,997, 11–20–62, Cl. 285—22.
Karlsson, Olof G.: *See*—
Falke, Erik, and Karlsson. 3,063,159.
Karlsson, Sven-Olof, now by change of name, S.-O. Kronogard, and E. V. Quistgaard, to Aktiebolaget Volvo. Change speed gearings particularly for motor vehicles. 3,024,668, 3–13–62, Cl. 74—688.
Karlstad, Maurice D., Jr., to Chrysler Corp. Torsion bar wheel suspension. 3,027,177, 3–27–62, Cl. 280—124.
Karlstrom, Karl R. M.: *See*—
Straub, Frederick A., Sahaglan, and Karlstrom. 3,063,-133.
Karmazin, John. Capillary tube assembly for evaporators. 3,030,782, 4–24–62, Cl. 62—515.
Karmazin, John. Heat exchanger construction. 3,042,380, 7–3–62, Cl. 257—148.
Karmazin, John. Method for manufacturing receiver for refrigeration systems or the like. 3,064,608, 11–20–62, Cl. 113—120.
Karmel, Philip, and B. W. Tucker, Jr., to Otis Elevator Co. Predictive mechanism for doors. 3,050,155, 8–21–62, Cl. 187—52.
Karner, Bernard C., and R. J. La Valley, to American Radiator & Standard Sanitary Corp. Batch process of edge plating aluminum ribbon with material that is readily soldered to other materials. 3,061,527, 10–30–62, Cl. 204—15.
Karnow, Paul, to United States of America, Navy. Helicopter over-water rescue device for immobile personnel. 3,036,-315, 5–29–62, Cl. 9—14.
Karo, Wolf: *See*—
Halpern, Benjamin D., and Karo. 3,032,587.
Karol, Reuben H. Soil consolidator. 3,054,286, 9–18–62, Cl. 73—94.
Karoly, Robert E. Automatic boat bailer. 3,065,725, 11–27–62, Cl. 114—185.
Karow, George F. Variable speed planetary gear transmission and vehicle drive arrangement. 3,017,786, 1–23–62, Cl. 74—677.
Karow, Kenneth A.: *See*—
Leonard, Edward J., Hemel, Tarschisch, Karow, Gibson, and Liston. 3,036,160.
Karp, Edward C. to Sanitary Scale Co. Automatic computing weighing mechanism. 3,059,709, 10–23–62, Cl. 177—5.
Karpach, John: *See*—
Mackey, Walter. 3,050,217.
Karpach, Joseph: *See*—
Mackey, Walter. 3,050,217.
Karpeluk, Sylvester, to Tinius Olsen Testing Machine Co. Low frequency inertia-type pickup. 3,026,429, 3–20–62, Cl. 310—25.
Karpchuk, Sylvester, to Tinius Olsen Testing Machine Co. Balancing equipment. 3,034,361, 5–15–62, Cl. 73—471.
Karpchuk, Sylvester, to Tinius Olsen Testing Machine Co. Cradle for balancing machine. 3,065,638, 11–27–62, Cl. 73—477.
Karpchuk, Sylvester, and W. M. Gruber, to Tinius Olsen Testing Machine Co. Reference signal generating means for dynamic balancing machines. 3,020,766, 2–13–62, Cl. 73—462.
Karpeles, Mark A.: *See*—
Parker, Ernest G., Karpeles, and Craine. 3,048,842.
Karpf, Kurt: *See*—
Straumann, Reinhard, and Karpf. 3,041,058.
Karpiuk, Robert S., and J. J. Hoekstra, to The Dow Chemical Co. Recovery of mercury from brine containing mercury salts in solution. 3,029,143, 4–10–62, Cl. 75—109.
Karpiuk, Robert S., and J. J. Hoekstra, to The Dow Chemical Co. Recovery of mercury from brine containing mercury salts in solution. 3,029,144, 4–10–62, Cl. 75—121.
Karpovich, George P.: *See*—
Karpovich, Peter V. and G. P. 3,020,639.
Karpovich, Peter V. and G. P., to United States of America, Army. Method and apparatus for measuring angles of body joints. 3,020,639, 2–13–62. Cl. 33—1.
Karpowicz, Benjamin, Jr., to Park Rapid, Inc. Package evacuating and severing apparatus. 3,030,747, 4–24–62, Cl. 53—112.
Karpuk, John P.: *See*—
Emmons, Neal L., and Karpuk. 3,034,874.
Karpuk, Philip, and J. L. Bingham. Journal lubricators for railroad car trucks. 3,039,832, 6–19–62, Cl. 308—83.
Karpus, John, Jr.: *See*—
Cowles, Warren H., and Karpus. 3,033,277.
Karr, Francis R., to Westinghouse Electric Corp. Dynamoelectric machine. 3,040,199, 6–19–62, Cl. 310—159.
Karr, Gerald W., to Beloit Eastern Corp. Flying splice unwind stand. 3,065,923, 11–27–62, Cl. 242—58.3.
Karr, Robert J. Pressure regulator. 3,047,005, 7–31–62, Cl. 137—115.
Karraker, William A. Mechanical audio and visual signal coordinating device. 3,016,783, 1–16–62, Cl. 84—464.
Karrer, Korbinian: *See*—
Wolak, Kurt, Karrer, and Rettig. 3,033,965.
Karrer, Paul: *See*—
Entschel, Roland, and Karrer. 3,068,257.
Karrer, Sebastian: *See*—
Fritts, Robert W., and Karrer. 3,022,361.
Fritts, Robert W., and Karrer. 3,038,956.
Karron, Edward M. Handbag frame latch. 3,047,322, 7–31–62, Cl. 292—228.
Karsay, Bela, to Allied Chemical Corp. Process for the conversion of acid sludge into sulfur dioxide and hydrocarbons. 3,048,472, 8–7–62, Cl. 23—177.
Karsay, Bela, to Allied Chemical Corp. Process for the decomposition of acid sludge into sulfur dioxide, hydrogen sulfide, and hydrocarbons. 3,048,473, 8–7–62, Cl. 23—177.
Karsten, Arnold J.: *See*—
Benson, Donald E., Lejeck, Karsten, and Whitcomb. 3,024,014.
Karsten, Kenneth S.: *See*—
Harvey, Allan M., Karsten, and Taylor. 3,024,163.
Karsten, Olav, to Allmanna Svenska Elektriska Aktiebolaget. Gland seals for gas-filled electric machines. 3,047,299, 7–31–62, Cl. 277—27.
Kartasuk, Raymond H., and R. G. Wampach, to Teletype Corp. Line feed alarm device for sprocket feed printer. 3,065,-836, 11–27–62, Cl. 197—133.
Kartinos, Nicholas J.: *See*—
Ginger, Leonard G., and Kartinos. 3,055,923.
Kartmann, Siegfried. Device for coiling twined threads. 3,032,960, 5–8–62, Cl. 57—73.
Kartride Pak Co., The: *See*—
Williamson, Martin B. 3,050,628.
Kartzmark, Robert: *See*—
Butler, Roger M., and Kartzmark. 3,016,350.
Karwat, Ernst, to Gesellschaft fur Linde's Eismaschinen Aktiengesellschaft. Removal of nitric oxide from gas mixtures containing the same. 3,023,076, 2–27–62, Cl. 23—2.
Karwat, Ernst, J. Weishaupt, and J. Oberpriller, to Gesellschaft fur Linde's Eismaschinen Aktiengesellschaft. Process for the separation of solid carbon dioxide from air as it decomposes in which the carbon dioxide containing air is previously cooled below the solidification temperature of the carbon dioxide. 3,050,950, 8–28–62, Cl. 62—13.
Karwatt, Alvin: *See*—
Karwatt, Nina and A. 3,055,674.
Karwatt, Nina and A. Axle and wheeled attachment for metal garbage cans. 3,055,674, 9–25–62, Cl. 280—47.13.
Karwowski, Artur: *See*—
Herte, Paul, Springer, and Karwowski. 3,023,513.
Kary, Samuel E. Apparatus for assembling wire gratings. 3,019,326, 1–30–62, Cl. 219—56.
Kasahara, Akira: *See*—
Miyataka, Kazuo, Okano, Hoji, Miki, Sakashita, Oshima, and Kasahara. 3,023,147.
Kasatkin, Anatol. Rotary cultivator. 3,059,704, 10–23–62, Cl. 172—38.
Kasawara, Zenichiro: *See*—
Hiratsuka, Matsumura, Matsuda, Takagi, Kasawara, Cono, Abe, and Ogawa. 3,038,786.
Kasberg, Alvin H., Jr.: *See*—
Kramer, Lloyd B., Kasberg, and Landkrohn. 3,018,357.
Kasbohm, Martin L.: *See*—
Hagler, Duran L., and Kasbohm. 3,022,635.
Kasbohm, Martin L., to Union Carbide Corp. Low temperature cleaning of an impurity-containing gas. 3,064,441, 11–20–62. Cl. 62—12.
Kasbohm, Martin L., C. R. Baker, and R. Houston, to Union Carbide Corp. Process and apparatus for cooling and removing condensables from gases. 3,023,836, 3–6–62, Cl. 183—2.
Kasdorf, Earl W., and R. T. Fujoka, to Manning, Maxwell & Moore Inc. Crane. 3,021,963, 2–20–62, Cl. 212—128.
Kasehagen, Leo, to Atlas Chemical Industries, Inc. Preparation of polyhydric alcohols. 3,047,635, 7–31–62, Cl. 260—635.
Kaserman, John A., and R. B. Oliver, to United States of America, Atomic Energy Commission. System for ultrasonic inspection of tubular objects. 3,063,290, 11–13–62, Cl. 73—67.8.
Kasey, Robert A., Jr., to E. I. du Pont de Nemours and Co. Warp knit fabric. 3,041,861, 7–3–62, Cl. 66—195.
Kash Products Inc.: *See*—
Kashergen, Michael J. 3,032,900.
Kashergen, Michael J. 3,033,394.
Kasha, Alex. Corn harvester rake attachment. 3,060,666, 10–30–62, Cl. 56—119.
Kashergen, Michael J., to Kash Products Inc. Bucket for digging of narrow trenches. 3,032,900, 5–8–62, Cl. 37—103.
Kashergen, Michael J., to Kash Products Inc. Multipurpose apparatus for earthworking and the like. 3,033,394, 5–8–62, Cl. 214—138.
Kashio, Toshio, ½ to Uchida Yoko Co. Relay type bi-quinary adder apparatus. 3,015,445, 1–2–62, Cl. 235—174.
Kasho Kabushiki Kaisha: *See*—
Hattori, Kyuhachi. 3,042,210.
Kask, Eugene, to R. W. Foote. Machine for stamping labels. 3,067,677, 12–11–62, Cl. 101—288.
Kasle Steel Corp.: *See*—
Bishop, Homer S. 3,066,869.
Kasmann, Bernhard. Removable slide for slide rule. 3,047,222, 7–31–62, Cl. 235—70.
Kaspar, Emanuel: *See*—
Wiechert, Rudolf, Kaspar, and Schenck. 3,069,435.
Kasparek, Hermann, K. Stach, and K. Pfroepffer, to Ravensberg G.m.b.H., Chemische Fabrik. Basic aralkyl nitriles and process for their preparation. 3,028,389, 4–3–62, Cl. 260—268.
Kaspaul, Alfred, to Brevets Aero-Mecaniques S.A. Electrical primers. 3,019,732, 2–6–62, Cl. 102—28.

Kaspaul, Alfred, to Brevets Aero-Mecaniques S.A. Electric devices for igniting the charge of a projectile, said devices being especially intended for use on anti-aircraft or anti-armour projectiles. 3,043,222, 7–10–62, Cl. 102—70.2.

Kaspaul, Alfred F., to Minnesota Mining and Mfg. Co. Electrolytic preparation of cadmium salts. 3,051,636, 8–28–62, Cl. 204—92.

Kasper, Chester S., Sr., and R. H. Kassin, Sr. Bottle holder. 3,056,534, 10–2–62, Cl. 224—45.

Kasper, Elmer J., to Royal Appliance Mfg. Co. Blackboard eraser cleaner. 3,066,345, 12–4–62, Cl. 15—310.

Kasper, Elwood C. Planter shovel coverer controls. 3,046,917, 7–31–62, Cl. 111—69.

Kasper, Frank S.: *See*—
Pickering, Thomas A., Kasper, Arseneau, and Maxa. 3,038,909.

Kasper, Frank S., and V. E. Porter, to International Telephone and Telegraph Corp. Coin controlled computer. 3,067,936, 12–11–62, Cl. 235—151.

Kasper, Klaus, to E. I. Du Pont de Nemours and Co. Purification of fluorocarbons. 3,022,357, 2–20–62, Cl. 260—653.3.

Kasperowicz, Henry, and K. Suehnholz, to Paramount Pictures Corp. Method for producing registered color screen cathode-ray tubes. 3,067,349, 12–4–62, Cl. 313—92.

Kass, Conrad, and R. L. Candell, to General Precision Inc. Magnetic detector test set. 3,054,947, 9–18–62, Cl. 324—51.

Kass, Robert E., A. H. Markhart, and C. F. Hunt, to Shawinigan Resins Corp. Process for the preparation of an aqueous dispersion of discrete polyspirane resin particles and product produced thereby. 3,061,566, 10–30–62, Cl. 260—29.2.

Kass, Robert E., A. H. Markhart, and E. Lavin, to Shawinigan Resins Corp. Aqueous polyspirane resinous compositions containing half esters of polycarboxylic anhydride and method of making same. 3,063,995, 11–13–62, Cl. 260—29.3.

Kass, Seymour: *See*—
Kliman, Merwin, and Kass. 3,021,518.

Kass, Wilhelm: *See*—
Graulich, Wilhelm, Lehmann, Bayer, Kass, and Berlenbach. 3,062,686.

Kassel, Martin, to Kiengle-Apparate G.m.b.H. System for electronic transformation of analogue values into digital values. 3,062,445, 11–6–62, Cl. 235—154.

Kassin, Rudolph H., Sr.: *See*—
Kasper, Chester S., Sr., and Kassin. 3,056,534.

Kast, Howard B., to General Motors Corp. Peak holding system. 3,033,172, 5–8–62, Cl. 121—41.

Kast, Howard B., to General Motors Corp. Fuel enrichment control for a gas turbine engine. 3,067,580, 12–11–62, Cl. 60—39.28.

Kastar Inc.: *See*—
Paparelli, Joseph. 3,063,147.

Kasten, Erich: *See*—
Bürklin, Gerlinde, and Kasten. 3,043,760.

Kasten, Frederick M., R. S. Cooke, and R. Kasten, to Alameda Gage Co. Thread taper gage. 3,044,178, 7–17–62, Cl. 33—199.

Kasten, John E. Release mechanism. 3,026,735, 3–27–62, Cl. 74—150.

Kasten, John E. Device for unloading forage crops from wagons or the like. 3,047,174, 7–31–62, Cl. 214—520.

Kasten, Robert: *See*—
Kasten, Frederick M., Cooke, and R. Kasten. 3,044,178.

Kasten, Walter, to The Bendix Corp. Fuel quality testing device. 3,034,656, 5–15–62, Cl. 210—492.

Kasten, Walter, to The Bendix Corp. Fuel filter and water separator unit. 3,064,818, 11–20–62, Cl. 210—238.

Kastenbein, Werner: *See*—
Buchwald, Fritz, Fliegner, Kastenbein, and Sindzinski. 3,069,011.
Fliegner, Horst, and Kastenbein. 3,039,592.

Kasting, Howard E.: *See*—
Simon, Selwyn, Toepper, and Kasting. 3,039,382.
Toepper, Marvin W., and Kasting. 3,039,136.

Kastler, Alfred, and M. Arditi, to International Telephone and Telegraph Corp. Frequency selection system utilizing a plurality of transitions. 3,054,069, 9–11–62, Cl. 331—3.

Kastner, Otto M. Pump for conveying concrete or other viscid masses. 3,035,524, 5–22–62, Cl. 103—52.

Kastning, Ernst-Guenther, and K. Bronstert, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Process for graftpolymerizing alpha-methylstyrene in the presence of cyclic ethers and alkali metal catalyst. 3,070,574, 12–25–62, Cl. 260—45.5.

Kastrup, Werner, to Durkoppwerke Aktiengesellschaft. Thread control device for sewing machines. 3,040,681, 6–26–62, Cl. 112—218.

Kaszuba, Frank J.: *See*—
Dersch, Fritz, Kaszuba, and Rauch. 3,051,570.

Katashima, Yuiki: *See*—
Fukuda, Masataro, Oda, and Katashima. 3,041,388.

Katayama, Mitsuhiko: *See*—
Yabuta, Teijiro, Ikeda (Hatsuko), Shirovanagi, Ikeda (Hiroshi), Fujimaki, Katayama, Tsuji, and Sato. 3,049,535.

Katchalsky, Aharon, I. Bursztyn, M. Rim, and D. Vofsi, to The Wizmann Institute of Science. Process and preparations for conditioning soil. 3,019,557, 2–6–62, Cl. 47—58.

Katchen, Bernard: *See*—
Berman, Elliot, and Katchen. 3,038,812.

Katchen, Bernard, and R. E. Miller, to The National Cash Register Co. Method of making walled clusters of capsules. 3,041,289, 6–26–62, Cl. 252—316.

Katebis, George. Swimming flippers. 3,042,943, 7–10–62, Cl. 9—304.

Katenov, Nicholas J.: *See*—
Koschelleff, Basile, 3,047,846.

Kates, W. A., Co., The: *See*—
Kates, Willard A. 3,040,759.

Kates, Willard A., to The W. A. Kates Co. Ratio regulator. 3,040,759, 6–26–62, Cl. 137—11.

Katin, Edmund A. Electric switch. 3,052,778, 9–4–62, Cl. 200—87.

Kato Engineering Co.: *See*—
Jones, Cecil H., and Stenger. 3,026,915.

Kato, Masumi, and S. Kamimura, to Toyota Motor Co. Ltd. System for driving window wipers for a vehicle. 3,049,742, 8–21–62, Cl. 15—250.17.

Kato, Takeo. Blow moulder. 3,069,722, 12–25–62, Cl. 18—5.

Katogir, Michael. Hobby horse device. 3,064,987, 11–20–62, Cl. 280—1.175.

Katon, John E.: *See*—
Schmidt, Bernard S., and Katon. 3,060,253.

Katona, Gabriel P., to Corning Glass Works. Electroluminescent cell. 3,052,811, 9–4–62, Cl. 313—108.

Katona, Joseph. Motion picture apparatus. 3,049,049, 8–14–62, Cl. 88—16.8.

Katori, Yoshiyuki: *See*—
Tanaka, Shoji, and Katori. 3,015,498.

Katsanis, David J., to United States of America, Army. Hypervelocity fluid flow temperature limiter. 3,050,000, 8–21–62, Cl. 102—92.5.

Katt, Robert, Jr. Paperboard boxes for animals. 3,035,544, 5–22–62, Cl. 119—19.

Katter, Lincoln F. Releasable holding device. 3,031,048, 4–24–62, Cl. 189—36.

Katterjohn, Charles M. Nestable stacking tray. 3,021,959, 2–20–62, Cl. 211—126.

Kattermann, David W., to Swiss Knitting Co., Inc. Shirt with size-adjustable collar. 3,030,630, 4–24–62, Cl. 2—116.

Kattermann, David W. and E. J., to Swiss Knitting Co., Inc. Swim trunks and other garments. 3,060,938, 10–30–62, Cl. 128—540.

Kattermann, Emil J.: *See*—
Kattermann, David W. and E. J. 3,060,938.

Katz, Abraham, and A. Rauchwerk, to Radio Corp. of America. Monitoring circuits. 3,047,843, 7–31–62, Cl. 340—174.

Katz, Abraham M., to Ideal Toy Corp. Animated doll. 3,029,552, 4–17–62, Cl. 46—120.

Katz, Alan H.: *See*—
Goldstein, Joel M., and Katz. 3,053,738.

Katz, Alex J., to Super Sagless Spring Corp. Pull-out beds. 3,030,637, 4–24–62, Cl. 5—13.

Katz, Alex J., to Super Sagless Spring Corp. Collapsible pull out sofa beds. 3,055,474, 11–27–62, Cl. 5—13.

Katz, Arthur H., and R. T. Adam, to International Telephone and Telegraph Corp. Frequency modulation radio altimeter. 3,045,233, 7–17–62, Cl. 343—14.

Katz, Avrum S.: *See*—
Gerth, Sol R., Katz, Adler, and Spercel. 3,026,104.

Katz, Edward M.: *See*—
Zucker, Richard S., and Katz. 3,035,955.

Katz, George, and O. D. Black, to Radio Corporation of America. Method of forming electrical conductors. 3,060,062, 10–23–62, Cl. 117—212.

Katz, Helmuth, to Siemens and Halske Aktiengesellschaft. Tensioned cross wire grid having soldered crossing points. 3,069,585, 12–18–62, Cl. 313—348.

Katz, Irving, G. A. Plew, and J. C. Wilson, to North American Aviation, Inc. Catalyst composition. 3,028,342, 4–3–62, Cl. 260—2.

Katz, Jacob. Asphalt compositions and wetting and anti-stripping agents for use in connection therewith. 3,047,414, 7–31–62, Cl. 106—273.

Katz, Julius H. Paper cup dispenser. 3,043,473, 7–10–62, Cl. 221—63.

Katz, Leon: *See*—
Brouillard, Robert E., Gannon, and Katz. 3,041,192.
Schmidt, Harold N., Tullsen, Katz, and Lytle. 3,022,299.

Katz, Maurice. Hydraulic shock absorber. 3,032,145, 5–1–62, Cl. 188—88.

Katz, Peter: *See*—
Krakauer, Merrill, Katz, and Fischer. 3,055,544.

Katz, Peter, W. Koch, and H. F. Fischer, to Rowe Mfg. Co., Inc. Display assembly for merchandising machine. 3,033,631, 5–8–62, Cl. 312—123.

Katz., Robert. Forms for the casting of concrete. 3,063,122, 11–13–62, Cl. 25—131.5.

Katz, Sam. Quilter gauge. 3,020,864, 2–13–62, Cl. 112—153.

Katz, Sidney: *See*—
Trademan, Leo, Katz, and Nielsen. 3,056,722.

Katz, William J., to Chain Belt Co. Method and apparatus for thickening. 3,033,938, 11–13–62, Cl. 210—44.

Katz, William J., to Chain Belt Co. Apparatus for and improved method of thickening. 3,063,939, 11–13–62, Cl. 210—44.

Katzbeck, Walter J.: *See*—
Kerr, Ralph W., and Katzbeck. 3,061,604.
Paschall, Eugene F., Katzbeck, and Hach. 3,068,124.

Katzeff, Kurt: *See*—
Edström, Nils, H., Härlin, and Katzeff. 3,069,502.

Katzen, Alan M.: *See*—
Davenport, William G., Hampton, and Katzen. 3,022,921.

Katzen, Raphael: *See*—
Drummond, Virgil D., Gould, and Katzen. 3,055,745.

Katzenberger, Edward F., and J. E. A. Steinbeck, to United States of America, Air Force. Retractable rotor mechanism. 3,050,277, 8–21–62, Cl. 244—17.27.

Katzenstein, Henry S., and B. Parzen, to Unitronics Corp. Binaural sound system for television receivers. 3,056,854, 10–2–62, Cl. 178—5.8.

Katzfey, James M., to H. K. Porter Co., Inc. Grass shears. 3,036,379, 5–29–62, Cl. 30—248.

Katzin, Martin, to Electromagnetic Research Corp. Communication system utilizing trade wind inversion duct. 3,030,500, 4–17–62, Cl. 250—6.

Katzin, Martin. Polarization diversity receiver. 3,044,062, 7–10–62, Cl. 343—100.

Katzmann, Fred L., to Fairchild Camera and Instrument Corp. Oscilliscope. 3,056,063, 9–25–62, Cl. 315—22.

Katzor, Karl, to American Messer Corp. Apparatus for guiding a photoelectric cell sensor in a circular path of adjustable radius. 3,021,598, 2–20–62, Cl. 33—27.

Katzschmann, Ewald, to Chemische Werke Witten Gesellschaft mit beschrankter Haftung. Process for production of aromatic carboxylic acids. 3,068,280, 12–11–62, Cl. 260—523.

Kauczor, Hans-Werner: *See*—
Morschel, Heinrich, and Kauczor. 3,056,745.

Kauer, James C.: *See*—
Carboni, Rudolph A., and Kauer. 3,058,993.

Kauer, Kenneth C.: *See*—
Tolkmith, Henry, Slagh, and Kauer. 3,022,329.

Kauer, Walter, to Meynadier & Cie AG. Sheet applying process. 3,060,077, 10–23–62, Cl. 156—322.

Kaufeld, James C.: *See*—
Cole, Dale K., and Kaufeld. 3,069,920.

Kaüfer, Helmut, A. Deeg, and R. Schwab, to Agfa Aktiengesellschaft. Elastic chain for film processing apparatus and the like. 3,064,795, 11–20–62, Cl. 198—175.

Kaufeld, Don B., to Foils Packaging Corp. Container and end closure. 3,029,997, 4–17–62, Cl. 229—37.

Kaufeld, Don B., to Foils Packaging Corp. Closed-end containers. 3,035,750, 5–22–62, Cl. 229—37.

Kaufeld, Don B., to Foils Packaging Corp. Food container. 3,064,874, 11–20–62, Cl. 229—23.

Kauffman, Bettie K.: *See*—
D'Ettorre, Alfred J., Heck, Kauffman, and Ranville. 3,057,636.

Kauffman, John H., R. L. McIlvaine, and A. G. Granath, to Herbert Simpson Corp. Pneumatic conveyor apparatus. 3,034,835, 5–15–62, Cl. 302—55.

Kauffman, Melvin R., to General Electric Co. Wooden top structure for a washing vat and the like. 3,048,463, 8–7–62, Cl. 312—237.

Kauffman, Richard W.: *See*—
Beck, Martin A., and Kauffman. 3,028,181.

Kauffman, Robert T., and B. Arlitz. Interchangeable shoe soles and heels. 3,019,534, 2–6–62, Cl. 36—15.

Kauffman, William H.: *See*—
D'Ettore, Alfred J., Heck, Kaufman, and Ranville. 3,057,636.

Kauffmann, William M., to Worthington Corp. Fuel air controller for turbo charged gas engine. 3,038,297, 6–12–62, Cl. 60—13.

Kauffmann, William M., and F. E. Carter, to Worthington Corp. Valve seat assembly. 3,046,965, 7–31–62, Cl. 123—188.

Kaufman, Alfred M., to Minneapolis-Honeywell Regulator Co. Information handling apparatus. 3,023,958, 3–6–62, Cl. 235—153.

Kaufman, Bruce A., to Avco Corp. Automatic phase control system. 3,021,492, 2–13–62, Cl. 331—28.

Kaufman, Daniel, and B. H. McMullen, to National Lead Co. Polymerization of olefins with a catalyst of a Grignard reagent and an aluminum containing titanium composition. 3,031,440, 4–24–62, Cl. 260—93.7.

Kaufman, Earl S. Convertible toy vehicle assembly. 3,052,-481, 9–4–62, Cl. 280—7.1.

Kaufman, Edward J. and J. Spring tooth harrow. 3,033,-296, 5–8–62, Cl. 172—629.

Kaufman, Harold B., Jr.: *See*—
Emmerling, Anson A., Kaufman, Osborne, and Steenrod. 3,023,262.

Kaufman, Herbert C.: *See*—
Mann, David J., and Kaufman. 3,037,846.

Kaufman, Herman S., and F. W. West, to Minnesota Mining and Mfg. Co. Surface coloration of perfluorohaloolefin polymers and colorant composition therefor. 3,019,115, 1–30–62, Cl. 106—32.

Kaufman, Hiram J. Film drying cabinet. 3,059,345, 10–23–62, Cl. 34—80.

Kaufman, Jacob: *See*—
Kaufamn, Edward J. and J. 3,033,296.

Kaufman, Lawrence: *See*—
Hecht, Herbert, and Kaufman. 3,070,333.

Kaufman, Melvin M., to Radio Corp. of America. Tunnel diode driver. 3,050,637, 8–21–62, Cl. 307—88.5.

Kaufman, Nathan S. Luminous ceiling structure and connector means therefor. 3,037,594, 6–5–62, Cl. 189—85.

Kaufman, Samuel J.: *See*—
Jaccard, René-Philippe. 3,018,613.

Kaufman, William: *See*—
Tobias, Stephen J., and Kaufman. 3,023,719.

Kaufman, William M., to United States of America, Atomic Energy Commission. Direct coupled progressive stage pulse counter apparatus. 3,049,628, 8–14–62, Cl. 307—88.5.

Kaufman, William M., to Westinghouse Electric Corp. Control circuit comprising back-to-back connected hyperconductive diodes in series with load. 3,066,230, 11–27–62, Cl. 307—88.5.

Kaufman, William M., and T. A. Jeeves, to United States of America, Atomic Energy Commission. Electrical pulse counter apparatus. 3,052,801, 9–4–62, Cl. 307—88.5.

Kaufmann, Dale W., to International Salt Co. Treatment of bulk salt. 3,036,884, 5–29–62, Cl. 23—89.

Kaufmann, Frank H., to Steel Heddle Mfg. Co. Harness for cross weaving. 3,015,346, 1–2–62, Cl. 139—52.

Kaufmann, John J., to Steel Heddle Mfg. Co. Loom harness. 3,047,029, 7–31–62, Cl. 139—88.

Kaufmann, John J., to Steel Heddle Mfg. Co. Harness for cross weaving. 3,058,495, 10–16–62, Cl. 139—51.

Kaufmann, John J., Jr., to Steel Heddle Mfg. Co. Bobbin grip and strap. 3,015,347, 1–2–62, Cl. 139—207.

Kaufmann, Karl: *See*—
Biedendieck, Karl, and Kaufmann. 3,043,637.

Kaufmann, Karl, to J. M. Voith, G.m.b.H. Drilling turbine with controllable thrust bearing. 3,054,595, 9–18–62, Cl. 253—3.

Kaufmann, Siegfried, to Joh. Jacob Rieter & Cie. Actiengesellschaft. Ring traveler. 3,035,401, 5–22–62, Cl. 57—125.

Kaufmann, Stephen: *See*—
Djerassi, Carl, Rosenkranz, Kaufmann, Pataki, and Romo. 3,069,294.

Kaufmann, Theodore, to General Cigar Co., Inc. Cigar head reinforcement. 3,067,753, 12–11–62, Cl. 131—11.

Kaufmann, Wilfried, K. Bauer, and H. Medick, to SchenLabs Pharmaceuticals Inc. Preparation of levans. 3,033,758, 5–8–62, Cl. 195—31.

Kaufmann, Wilfried, and K. Bauer, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of levane sucrase. 3,060,103, 10–23–62, Cl. 195—66.

Kaufmann, Wilhelm, to Chain Belt Co. Elevator casing. 3,015,382, 1–2–62, Cl. 198—206.

Kaukes & Co., Inc.: *See*—
Stefanov, Boris. 3,053,996.

Kaukonen, Oliver I. Three point visual teaching aid. 3,029,-527, 4–17–62, Cl. 35—23.

Kaule, Gustav: *See*—
Joseph, Werner, Kaule, and Podschus. 3,020 646.

Kaulen, Robert, to Bekk & Kaulen Chemische Fabrik G.m.b.H. Dr. Process and apparatus for the seamless coating of printing elements, such as plates and cylinders. 3,046,156, 7–24–62, Cl. 117—94.

Kaulfuss, Robert H.: *See*—
Massey, John V., and R. H. and W. P. Kaulfuss. 3,025,-954.

Kaulfuss, William P.: *See*—
Massey, John V., and R. H. and W. P. Kaulfuss. 3,025,-954.

Kaumagraph Co.: *See*—
Lawrence, Winthrop S., and Hochner. 3,057,018.

Kaupp, Bette K., to Maiden Form Brassiere Co., Inc. Girdles. 3,015,334, 1–2–62, Cl. 128—542.

Kaupp, Bette K., to Maiden Form, Inc. Maternity girdle. 3,026,875, 3–27–62, Cl. 128—540.

Kaupp, Donald H. Brassiere. 3,066,676, 12–4–62, Cl. 128—492.

Kaupp, Josef, W. Brotz, and O. Metz, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Amidation products of crude paraffin oxidation material. 3,038,815, 6–12–62, Cl. 106—287.

Kaupp, Josef, G. Konig, G. von Rosenberg, H. Trager, and A. Thalhofer, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of hard waxes. 3,053,681, 9–11–62, Cl. 106—268.

Kaupp, Joseph, and O. Metz, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of hard waxes rich in ester from mixtures of montan wax acids and paraffins. 3,060,046, 10–23–62, Cl. 106—270.

Kaupp, Josef, and A. Thalhofer, to Farbwerke Hoechst Aktiengesellschft vormals Meister Lucius & Bruning. Hard ester waxes and process for preparing them. 3,062,671, 11–6–62, Cl. 106—268.

Kauppila, George R., ½ to R. L. Dickerson. Bi-fold door assembly. 3,017,926, 1–23–62, Cl. 160—213.

Kausch, Walter O. Artificial breast form. 3,067,431, 12–11–62, Cl. 3—36.

Kausch, Werner, to Telefunken G.m.b.H. Stereophonic amplifier and loudspeaker system. 3,048,663, 8–7–62, Cl. 179—100.1.

Kausche, Merle K. Automatic stanchion. 3,043,269, 7–10–62, Cl. 119—98.

Kausche, Merle K. Irrigation pipe carrier. 3,055,692, 9–25–62, Cl. 294—16.

Kauten, Frank. Scent spray for air conditioners. 3,044,276, 7–17–62, Cl. 62—311.

Kautz, Glenn E.: *See*—
Curran, Bernard E., Kautz, and Marshall. 3,059,564.

Kautz, Murrell F., and E. H. Olson, to Minneapolis-Honeywell Regulator Co. Clogged filter indicator. 3,027,865, 4–3–62, Cl. 116—114.

Kautz, William H., to General Electric Co. Buffer storage system. 3,032,746, 5–1–62, Cl. 340—172.5.

Kavanagh, Frank W.: *See*—
Lowe, Warren, Kavanagh, Stuart, and Stewart. 3,037,-056.

Kavanagh, Frederick J. Automatic sprinkler. 3,067,823, 12–11–62, Cl. 169—41.

Kavanagh, Frederick W. Wide range linear turbidimeter. 3,027,461, 3–27–62, Cl. 250—218.

Kavanagh, Madeline: *See*—
Luebben, Ummo F. 3,064,556.

Kavanaugh, Richard J.: *See*—
Taylor, Jay R., and Kavanaugh. 3,038,438.

Kaveggia, Frederick, N. W. Berst, and L. L. Ait, to The Diversey Corp. Method of etching magnesium and magnesium base alloys. 3,067,080, 12–4–62, Cl. 156—20.

Kaveny, John G., and G. Peterson, to Dykrex Corp. Lapping tool. 3,037,028, 6–5–62, Cl. 51—34.

Kawabata, Nobue. Garden waterfall device. 3,022,603, 2–27–62, Cl. 46—41.

Kawabe, Yotaro: *See*—
Osugi, Tetsuro, Tanabe, Kawabe, Yabe, Morimoto, and Miyazaki. 3,027,224.

Kawada, Katsuro: *See*—
Ito, Akira, Hamanaka, Takagi, Wada, and Kawada. 3,064,000.

Kawahara, Fred K.: *See*—
Bauer, Martin, Kawahara, and Brown. 3,037,492.

Kawahara, Fred K., and B. L. Mickel, to Standard Oil Co. Jet fuel composition. 3,049,871, 8–21–62, Cl. 60—35.4.

Kawahara, Fred K., R. H. Brown, and C. B. Tracy, to Standard Oil Co. Method of operating a spark ignition internal combustion engine. 3,065,742, 11–27–62, Cl. 123—1.

Kawai, Eiichi: *See*—
Seki, Hideo, Suzuki, and Kawai. 3,029,164.

Kawakami, Hirotake: *See*—
Kishi, Kanesuke, Nakatsuru, and Kawakami. 3,053,339.

Kawalle, Arthur W. Bridging for joists and studding. 3,049,-764, 8–21–62, Cl. 20—9.

Kawamura, Saburo: *See*—
Hirano, Katsuaki, Takada, Suzumura, and Nagano. 3,061,884.

Kawamura, Yurio, T. Tamuki, K. Takenouchi, M. Satani, Y. Sakata, and T. Hanaoka, to Ajinomoto Co., Inc. Process for preparation of flavouring and the resulting product. 3,039,880, 6–19–62, Cl. 99—143.

Kawashima, Chihiro, and H. Nakahira, to Toyo Calorizing Kogyo Kabushiki Kaisha. Method of manufacturing durable lance pipes for oxygen smelting. 3,036,929, 5–29–62, Cl. 117—70.

Kawaska, Kentaro: *See*—
Ohashi, Hidelchiro, Kawasaki, Koshiba, and Tsuji. 3,046,633.

Kawate, Kenichi, ½ to Nippon Kogaku K.K. Photographic flash unit with different sockets. 3,054,079, 9–11–62, Cl. 339—32.

Kawecki Chemical Co.: *See*—
Bielecki, Edward J. 3,051,547.

Kawecki, Henry S., to General Motors Corp. Remotely controlled mirror. 3,046,841, 7–31–62, Cl. 88—98.

Kawneer Co.: *See*—
Heinsman, William G., Roehm, and Wille. 3,039,764.
Muessel, Dan C. 3,023,859.
Muessel, Dan C., and Gramse. 3,042,957.
Pulling, Lewis L., Muessel, and Wille. 3,037,591.

Kay, Alan F., to TRG, Inc. Thin-wall radome utilizing irregularly spaced and curved conductive reinforcing ribs obviating side-lobe formation. 3,039,100, 6–12–62, Cl. 343—872.

Kay, Arthur: *See*—
Day, Lawrence, Dobrick, and Kay. 3,032,937.

Kay-Brunner Steel Products, Inc.: *See*—
Behnke, Arnold F. 3,033,589.
Brunner, Joseph F., Jr. 3,023,521.
Kay, Lloyd D. 3,063,693.

Kay-Dee Co., The: *See*—
Felton, Donald L. 3,031,125.

Kay, James A., to Rose Brothers (Gainsborough) Ltd. Carton-feeding apparatus. 3,063,712, 11–13–62, Cl. 271—36.

Kay, James A., and B. R. Price, to Celanese Corp. of America. Tension control device for yarn winder. 3,034,278, 5–15–62, Cl. 57—86.

Kay, John G.: *See*—
Graham, James T., and Kay. 3,043,417.

Kay, John G., to F. Jos. Lamb Co. Brush controlled gravity feeds. 3,034,626, 5–15–62, Cl. 193—32.

Kay, John G., and J. T. Graham, to F. Jos. Lamb Co. Chuting of adjustable width. 3,032,160, 5–1–62, Cl. 193—38.

Kay, Lloyd D., to Kay-Brunner Steel Products, Inc. Annealing oven. 3,063,693, 11–13–62, Cl. 263—28.

Kay Mfg. Corp.: *See*—
Simon, George. 3,039,762.

Kay Paper Products, Inc.: *See*—
Sinner, Edwin A., and Hull. 3,038,625.

Kaybar, Inc.: *See*—
Cryderman, Wilfred G., and Marshall. 3,023,124.

Kaye, Harold J., to R. A. Edgcomb. Adjusting dial indicator mounting. 3,018,994, 1–30–62, Cl. 248—278.

Kaye, Joseph: *See*—
Hatsopoulos, George N., and Kaye. 3,054,914.

Kaye, Joseph, and G. F. Harper. Rocket launcher. 3,025,-633, 3–20–62, Cl. 46—74.

Kaye, Leo C.: *See*—
Tait, John B., and Kaye. 3,038,148.

Kaye, Philip: *See*—
Peiler, Lester R., and Kaye. 3,055,033.

Kayko, Charles J., to McGraw-Edison Co. Electrostatic filter. 3,053,028, 9–11–62, Cl. 55—103.

Kayko, Charles J., and E. W. Hendrickson, to McGraw-Edison Co. Sheathed heating element. 3,065,436, 11–20–62, Cl. 338—243.

Kaylor, Jule W.: *See*—
Matthews, Robert M., and Kaylor. 3,027,737.

Kaylor, Richard B.: *See*—
Snyder, Herman B., and Kaylor. 3,025,225.

Kaynor, Richard S., and E. B. Neuman; said Neuman assignor to said Kaynor. Resilient pipe joint. 3,059,941, 10–23–62, Cl. 277—190.

Kayser, E. P.: *See*—
Hicks, William W., and Beckett. 3,070,100.

Kayser, Heinrich, W. Lorenz, and G. Schrader, to Farbenfabriken Bayer Aktiengesellschaft. Thiophosphoric acid esters and a process for their production. 3,019,250, 1–30–62, Cl. 260—461.

Kayton, Irving: *See*—
Pos, Julius. 3,064,354.

Kaywood Corp.: *See*—
Sherwood, Glenn L. 3,059,291.

Kazakevich, Alger A. Game. 3,046,017, 7–24–62, Cl. 273—130.

Kazan, Benjamin, to Radio Corp. of America. Radiant energy sensitive device. 3,033,989, 5–8–62, Cl. 250—213.

Kazan, Benjamin, to Radio Corp. of America. Electroluminescent device and circuits therefor. 3,043,961, 7–10–62, Cl. 250—213.

Kazmierczak, Walter S.: *See*—
Gajda, Leo P., Edgar, and Kazmierczak. 3,026,594.
Gajda, Leo P., and Kazmierczak. 3,044,599.

Kaznoff, Alexis I.: *See*—
Horning, Robert M., Kaznoff, and Heil. 3,066,010.

Kazokas, George P. Catalytic muffler. 3,061,416, 10–30–62, Cl. 23—288.

Keagle, Stanley E. Hydraulic press brake and hydraulic system therefor. 3,030,880, 4–24–62, Cl. 100—269.

Keagle, Stanley E. Speed control for automotive vehicles. 3,044,588, 7–17–62, Cl. 192—3.

Keahey, Sammie G., to United States of America, Navy. Endless cable capstan drive launcher. 3,022,027, 2–20–62, Cl. 244—63.

Kealy, Thomas J., to E. I. du Pont de Nemours and Co. Pyridazino/1,2-/-pyridazine-1,4-diones and pyridazino/1,2-/-phthalazine-6,11-diones. 3,062,820, 11–6–62, Cl. 260—250.

Kealy, Thomas J., to E. I. du Pont de Nemours and Co. Fluorothioketones and their polymers. 3,069,397, 12–18–62, Cl. 260—79.

Kean, George W., 50% to Angelo J., Albert J., and R. A. Roncari. Can opener. 3,067,510, 12–11–62, Cl. 30—9.

Keane, John J.: *See*—
Edward, Charles F., and Keane. 3,048,651.

Keane, John J., and H. Kitson, Jr., to General Electric Co. Hydrostatic lead seal and method of making same. 3,043,-903, 7–10–62, Cl. 174—152.

Kearfott Co., Inc.: *See*—
Kishel, John J. 3,056,290.

Kearley, Robert A., to Pittsburgh Plate Glass Co. Method of separating sodium chromate from solution. 3,027,245, 3–27–62, Cl. 23—296.

Kearney, James J., to Diamond Alkali Co. Suspension polymerization utilizing phosphorus compounds as suspending agent. 3,026,308, 3–20–62, Cl. 260—92.8.

Kearney, James R., Corp.: *See*—
Alsaker, Oscar B. 3,064,484.

Kearney, Robert L.: *See*—
Anderson, Carl P., and Kearney. 3,064,079.
Ladany, Ivan, and Kearney. 3,042,884.

Kearney, Thomas J., to Detrex Chemical Industries, Inc. Rotary drum degreaser. 3,032,043, 5–1–62, Cl. 134—65.

Kearney, Thomas J., and J. H. Nuber, to Detrex Chemical Industries, Inc. Apparatus for treatment with solvents. 3,029,929, 4–17–62, Cl. 198—211.

Kearney, Thomas J., and B. A. Young, to Detrex Chemical Industries, Inc. Method of and apparatus for cleaning tanks of vehicles. 3,042,553, 7–3–62, Cl. 134—11.

Kearney, Thomas J., and B. A. Young, to Detrex Chemical Industries, Inc. Method and apparatus for interiorly cleaning tanks and the like. 3,046,163, 7–24–62, Cl. 134—11.

Kearney & Trecker Corp.: *See*—
Brainard, Wallace E. 3,045,510.
Brainard, Wallace E., Hansen, Sedgwick, and Sipek. 3,054,333.
Brainard, Wallace E., Hansen, Sedgwick, Sipek, and Baechle. 3,052,011.
Fotsch, Arthur H., Bartz, and Schalk. 3,029,710.
Fotsch, Arthur H., and Jorgenson. 3,026,778.
Parske, Charles A., and Hansen. 3,031,902.

Kearney & Trecker Corp. : *See*—Continued
Parske Charles A., and Kulpa. 3,038,386.
Sedgwick, Robert K., and Sipek. 3,052,999.
Zanki, Frank, and Osburn. 3,016,804.
Kearney, William F. : *See*—
Fischer, Howard R., and Kearney. 3,042,004.
Kearns, David R. : *See*—
Calvin, Melvin, and Kearns. 3,057,947.
Kearns, John J., Jr., to Lever Bros. Co. Process for making fluid shortening. 3,028,244, 4–3–62, Cl. 99—118.
Kearns, John P., to United States of America, Navy. Flutter simulator. 3,015,948, 1–9–62, Cl. 73—67.2.
Kearns, Thomas F., Jr., to General Steel Products Corp. Wall structure. 3,019 863, 2–6–62, Cl. 189—34.
Kearns, William J., to General Electric Co. Gaseous discharge device. 3,041,492, 6–26–62, Cl. 313—185.
Keathley, Anthony C. : *See*—
Haymes, William G., and Keathley. 3,026,674.
Keathley, Maurice, Sr. : *See*—
Manspeaker, Robert O. 3,046,911.
Keating, Alexander F., to Bemis Bro. Bag Co. Bag. 3,018,943, 1–30–62, Cl. 229—62.5.
Keating, Bernard H., to General Motors Corp. Sunshade support assembly. 3,017,217, 1–16–62, Cl. 296—97.
Keating, Donald A. Mechanical lesion generator. 3,062,213, 11–6–62, Cl. 128—303.
Keating, James P., and J. A. Saunders, to Eclipse Fuel Engineering Co. Gas burner construction. 3,044,537, 7–17–62, Cl. 158—117.5.
Keating, James P., and J. A. Saunders, to Eclipse Fuel Engineering Co. Process of combustion. 3,044,539, 7–17–62, Cl. 157—117.5.
Keating, James P., and L. S. Spielman, to Eclipse Fuel Engineering Co. Burner construction. 3,064,720, 11–20–62, Cl. 158—116.
Keating, Jerome V. Self-thinning collapsible cigarette package. 3,058,581, 10–16–62, Cl. 206—41.
Keating, John D. : *See*—
Tedechi, Anthony, and Keating. 3,026,423.
Keating, Patrick J., Jr. : *See*—
Theisig, Theodore C., and Keating. 3,050,466.
Keating, Raymond J., D. L. Orloff, and H. F. Pernot, to Oscar Mayer & Co., Inc. Article handling apparatus. 3,025,943 3–20–62, Cl. 198—20.
Keaton, Bobby L., to General Metals Corp., Adel Precision Products Division. Line supporting clip. 3,061,253, 10–30–62, Cl. 248—74.
Keaton, Lawrence C. : *See*—
King, William R., and Keaton. 3,036,737.
Keaton, Lester H. Multipurpose inflatable seat cushion. 3,042,940, 7–10–62, Cl. 5—348.
Keats, John B. Portable collapsible and changeable sign. 3,026 641, 3–27–62, Cl. 40—125.
Keays, Stanley K. : *See*—
Smyth, Henry L. R., Makow, and Keays. 3,022,418.
Kebbel, Werner : *See*—
Seeliger, Ernst, Kebbel, and v. Sanden. 3,058,470.
Kebekus, Alfred, and Rosenboom, to Norddeutsche Seekabelwerke Aktiengesellschaft. Apparatus for producing plastic bags. 3,017,314, 1–16–62, Cl. 156—498.
Kebei, Arthur P. Stethoscope. 3,035,656, 5–22–62, Cl. 181—24.
Kebrle, Jindrich : *See*—
Hoffman, Karl, Rossi, and Kebrle. 3,055,912.
Wettstein, Albert, Anner, and Kebrle. 3,055,887.
Wettstein, Albert, Anner, Meystre, Wieland, Ehmann, Heusler, Hunger, and Kebrle. 3,026,340.
Wettstein, Albert, Anner, Meystre, Wieland, Ehmann, Heusler, Hunger, and Kebrle. 3,033,881.
Wettstein, Albert, Anner, Meystre, Wieland, Ehmann, Heusler, Hunger, and Kebrle. 3,040,072.
Keck, Henry, Associates : *See*—
Craig, Burnie M. 3,042,739.
Keck, Johannes, and H. Tronnier, to Karl Thomae, Dr., G.m.b.H. Composition for the care of the skin. 3,041,245, 6–26–62, Cl. 167—90.
Keck, Merle E., to Westinghouse Electric Corp. Luminaire. 3,043,950, 7–10–62, Cl. 240—25.
Keckler, John W., to The Aro Equipment Corp. Combination valve for oxygen converters. 3,018,635, 1–30–62, Cl. 62—55.
Keder, Ernest A., and B. V. De Claire, to Lyon Inc. Packaging of wheel covers. 3,028,003, 4–3–62, Cl. 206—65.
Kedzierski, Stanley G., to Talon, Inc. Automatic lock slider. 3,038,226, 6–12–62, Cl. 24—205.14.
Keeber, Willard H. : *See*—
Wilson, Ernest V., Ertelt and Keeber. 3,036,969.
Keeble, John A., to Hercules Powder Co. Purification of phenol. 3,029,294, 4–10–62, Cl. 260—621.
Keech, Dana E. : *See*—
Keech, Roger A. 3,027,719.
Keech, Roger A. : *See*—
Stewart, Alford K., and Keech. 3,047,343.
Keech, Roger A., 25% to D. E. Keech. Positive displacement variable speed hydraulic power transmission. 3,027,719, 4–3–62, Cl. 60—53.
Keefe, Arthur. Molded wheel having internal reinforcing. 3,062,254, 11–6–62, Cl. 152—7.
Keefe, Edward J., to United Kingdom Atomic Energy Authority. Resistance welding. 3,036,200, 5–22–62, Cl. 219—92.
Keefe, Lincoln M. : *See*—
Platzman, Michael M., and Keefe. 3,051,079.
Keefe, Ray J. : *See*—
Bowman, Virgil R., and Keefe. 3,045,099.
Keel, Donald K. : *See*—
Muller, Fred A., and Keel. 3,055,843.
Muller, Fred A., and Keel. 3,055,898.
Keelavite Co. Ltd., The : *See*—
Chittenden, George E. 3,043,535.
Lee, Norman. 3,057,162.
Keeler, Eugene R., to General Precision, Inc. Pulse dividing circuit. 3,023,322, 2–27–62, Cl. 307—88.5.
Keeler, Eugene R., and T. W. Kwap, to General Precision, Inc. Transistorized power driver pulse amplifier. 3,070,-752, 12–25–62, Cl. 330—22.
Keeler, Owen F., to Chrysler Corp. Combination handle and air deflector. 3,063,748, 11–13–62, Cl. 296—91.
Keeler, Roy W. : *See*—
Cross, Radley. 3,065,310.
Keelerie, George F. Welding method. 3,016,450, 1–9–62, Cl. 219—117.
Keeling, Kermit B., Sr., to General Electric Co. Dual axis oven door structure. 3,018,508, 1–30–62, Cl. 16—147.
Keeling, Kermit B., Sr., to General Electric Co. Adjustment device between a dial and its shaft. 3,032,004, 5–1–62, Cl. 16—129.
Keeling, Roland O., Jr., to Gulf Research & Development Co. X-ray absorption spectrometer. 3,029,341, 4–10–62, Cl. 250—51.5.
Keely, Clifford D., to General Corrugated Machinery Co. Method of sealing sandwich type carton ends. 3,018,701, 1–30–62, Cl. 93—36.
Keely, Clifford D., and R. J. Baisley, to General Corrugated Machinery Co., Inc. Machine for automatically measuring and taping cartons. 3,045,402, 7–24–62, Cl. 53—66.
Keely, Clifford D., and R. J. Baisley, to General Corrugated Machinery Co., Inc. Carton sealing mechanism. 3,052,072, 9–4–62, Cl. 53—66.
Keen, Douglas H., and G. E. Paxton, to Swindell-Dressler Corp. Loose coiling installation. 3,064,918, 11–20–62, Cl. 242—78.1.
Keen, Harry J., and K. G. Sears, to Lavoie Laboratories, Inc. Temperature control systems. 3,041,548, 6–26–62, Cl. 331—69.
Keen, Harry J., and K. G. Sears, to Lavoie Laboratories, Inc. Temperature control systems. 3,041,549, 6–26–62, Cl. 331—69.
Keen, James H., to Eastman Kodak Co. Method of making a roughened tow. 3,062,611, 11–6–62, Cl. 18—54.
Keen, James L., and J. W. Opie, to General Mills, Inc. Flotation concentration of halite. 3,032,198, 5–1–62, Cl. 209—167.
Keen, John M. S. : *See*—
Morley, Frederick W. W., and Keen. 3,060,681.
Keen, John M. S., to Rolls-Royce Ltd. Variable area jet propulsion nozzles. 3,024,599, 3–13–62, Cl. 60—35.6.
Keen, John M. S., to Rolls-Royce Ltd. Propelling nozzles for jet propulsion gas turbine engines. 3,025,666, 3–20–62, Cl. 60—35.6.
Keen, John M. S., to Rolls-Royce Ltd. Jet propulsion engines. 3,048,975, 8–14–62, Cl. 60—35.54.
Keen, John M. S., and R. H. Colley, to Rolls-Royce Ltd. Control mechanism for aircraft jet-propulsion engines having means for producing forward and reverse propulsive thrusts. 3,034,296, 5–15–62, Cl. 60—35.54.
Keen, William R., to Collins & Aikman Corp. Tufted fabrics and methods of making same. 3,017,847, 1–23–62, Cl. 112—266.
Keenan, James W. : *See*—
Johnson, Alvin P., and Keenan. 3,051,173.
Keenan, John D., Jr. : *See*—
Sylvester, John D., and Keenan. 3,019,583.
Keenan, John G., and D. Craigie, to Rolls-Royce Ltd. Bearing assembly. 3,057,542, 10–9–62, Cl. 230—116.
Keenan, Patrick J. : *See*—
Kingston, Fred G., and Keenan. 3,061,492.
Keenan, Ralph D., to Automatic Electric Laboratories, Inc. Latching relay. 3,056,007, 9–25–62, Cl. 200—104.
Keenan, Thomas J., Jr. Draft regulator and scrubber. 3,045,990, 7–24–62, Cl. 261—120.
Keene, Frank C. Marker for measuring tape. 3,063,157, 11–13–62, Cl. 33—189.
Keene, Frederick J. : *See*—
Caywood, Stanley W., Jr., and Keene. 3,021,308.
Keene, Lee C. : *See*—
Bruck, George, Keene, and Schipper. 3,069,677.
Keene, Lee C., to Avco Mfg. Corp. Phaseless automatic control system. 3,058,052, 10–9–62, Cl. 323—101.
Keene, Richard S., to Geo. W. Bollman & Co., Inc. Process for making pile fabric. 3,029,156, 4–10–62, Cl. 117—29.
Keener, Howard N. Hoist. 3,019,918, 2–6–62, Cl. 214—75.
Keener, John, 33⅓% each to G. M. Clarkson and G. C. Holliday. Impact gate. 3,052,485, 9–4–62, Cl. 280—179.
Keeney, Edward. Charcoal burner. 3,035,566, 5–22–62, Cl. 126—25.
Keepers, Harry R., to Browning Mfg. Co. Variable pitch sheave. 3,043,151, 7–10–62. Cl. 74—230.17.
Keeslar, Clifford R., to The Upjohn Co. Advertising display. 3,015,898, 1–9–62, Cl. 40—124.1.
Keesling, C. H. : *See*—
Keesling, Thomas B. 3,016,933.
Keesling, Thomas B., to FMC Corp. Fruit orientator and corer. 3,016,076, 1–9–62, Cl. 146—52.

Keesling, Thomas B., ½ to C. H. Keesling. Power operated tool attachment for electric drills and the like. 3,016,933, 1–16–62, Cl. 144—35.

Keesling, Thomas B., to Cycle Equipment Co. Reel structure for winding of tape. 3,033,483, 5–8–62, Cl. 242—74.

Keesling, Thomas B., to Cycle Equipment Co. Tape winder. 3,045 941, 7–24–62, Cl. 242—71.5.

Keevil, Sidney G., Jr., to ACF Industries, Inc. Fuel pump. 3,062,150, 11–6–62, Cl. 103—38.

Kegan, Albert L.: *See*—
Ajero, Fortunato S. 3,019,917.

Kegan, James E.: *See*—
Carson, James S., Feild, Kegan, Markwood, and Whitney. 3,018.252.

Kegel, Philipp D.: *See*—
Nellis Charles N., Jr., Kegel, and Black. 3,041.046.

Kegg, Robert R., to Kimble Glass Co. Glass-to-metal seals and method of fabricating same. 3,061,664, 10–30–62, Cl. 174—50.53.

Kegg, Vernon J., to United States Steel Corp. Device for tensioning outside widths of slit strip. 3,061,226, 10–30–62, Cl. 242—75.3.

Kehde, Kurt, Clamping arrangement. 3,016,805, 1–16–62, Cl. 269—157.

Kehe, Henry J.: *See*—
Jansen, Jacob E., and Kehe. 3,022,269.

Kehler, Jacob. Tree stump cutter attachment. 3,044,509, 7–17–62. Cl. 144—2.

Kehler, Theodore K., to ENFO Entwicklungs- und Forschungs-Aktiengesellschaft. Automatic ring plate valves. 3,056,425, 10–2–62, Cl. 137—516.21.

Kehm, Clarence H.: *See*—
Dillon, William C., and Kehm. 3,023,276.

Kehm, Clarence H. to W. C. Dillon & Co., Inc. Communication system. 3,029,312, 4–10–62, Cl. 179—15.

Kehoe, James W., to The Shelby Salesbook Co. Double stud card set. 3,022,094, 2–20–62, Cl. 282—22.

Kehoe, Norman T.: *See*—
Mika, Henry S., Stiegler, Kehoe, and Mehlenbacher. 3,062,058.

Kehrer, Charles F. Workpiece actuated sewing and handling machine. 3,044,424, 7–17–62, Cl. 112—10.

Kehrer, Edmond. Closing buckles for flexible attachments. 3,036,352, 5–29–62, Cl. 24—178.

Kehrer, Fritz: *See*—
Ehrhardt, Klaus, and Kehrer. 3,036,059.

Keib, Heinz: *See*—
Schuller, Werner H. W., and Keib. 3,055,050.

Keicher, Georg, and E. Stark, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Polyethylene stabilized with 6,6'-methylene-bis-(2-isoboruyl-4-methylphenol). 3 055,863, 9–25–62, Cl. 260—45.95.

Keidel, Frederick A., to E. I. du Pont de Nemours and Co. Electrolytic drying apparatus. 3,062,732, 11–6–62, Cl. 204—212.

Keiding, Andrew, to Keiding Paper Products Co. Plant receptacle having improved drainage means. 3,027,684, 4–3–62, Cl 47—34.

Keiding Paper Products Co.: *See*—
Keiding, Andrew. 3,027,684.

Keighley, Lloyd M., to General Motors Corp. Refrigeration. 3.025,679, 3–20–62, Cl. 62—71.

Keight, Albert W., to Celanese Corp. of America. Twister rings. 3,056,251, 10–2–62, Cl. 57—122.

Keigler, John E.: *See*—
Guarricini, Joseph, Herskowitz, and Keigler. 3,026,765.

Keil, Havard L., and E. F. Cavanaugh, to Armour & Co. Decolorization of amino acid mixtures obtained from blood protein hydrolysis. 3,048,627, 8–7–62, Cl. 260—534.

Keil, Henry P., to Fixture Hardware Corp. Feed tray-control attachment for duplicating machines. 3,033,110, 5–8–62, Cl. 101—232.

Keil, Henry P., to Fixture Hardware Corp. Sheet moistening means for duplicating machines. 3,068,786, 12–18–52, Cl. 101—132.5.

Keil, Henry P., to Fixture Hardware Corp. Paper guide for the feeding tray of a duplicating machine. 3,069,159, 12–18–62, Cl. 271—61.

Keil, Joseph W., to Dow Corning Corp. Release coatings comprising the reaction product of 0.1–5% methylhydrogenpolysiloxane and 95–99.9% perfluoro-alkylsiloxane. 3,050,-411, 8–21–62, Cl. 117—68.5.

Keil, Joseph W., to Dow Corning Corp. Aqueous dispersions of a mixture of siloxanes and an aminoplast resin, method of coating, and article obtained. 3,061,567, 10–30–62, Cl. 260—29.2.

Keil, Theodore R.: *See*—
Dietzler, Andrew J., and Keil. 3.051,753.
Dietzler, Andrew J., and Keil. 3,067,253.

Keilen, John J., Jr.: *See*—
Belknap, Paul A., and Keilen. 3,025,403.

Keilholz, Friedrich, and L. Alfoldi, to Firma J. Banning Aktiengesellschaft, Maschinenfabrik. Screw press which is operated by hydraulic means. 3,020,833, 2–13–62, Cl. 100—271.

Keilman, James J., to L. J. R. Corp. Segmental disk wheel. 3,019,056, 1–30–62, Cl. 301—63.

Keim, Gerald I., to Hercules Powder Co. Water-resistant nonfibrous regenerated cellulose film and process of producing same. 3,039,889, 6–19–62, Cl. 117—72.

Keim, Gerald I., and A. C. Schmalz, to Hercules Powder Co. Manufacture of paper having improved wet strength. 3,058,873, 10–16–62, Cl. 162—164.

Keim, Gerald I., and W. D. Thompson, to Hercules Powder Co. Mineral fiber products and method of preparing same. 3,066,066, 11–27–62, Cl. 162—152.

Keim. Thomas J.: *See*—
Small, Eugene V., and Keim. 3,027,091.

Keinanen, Henry, and R. R. Szatkowski, to Continental Can Co., Inc. Combination electrical and mechanical can separating means on continuous welding machines. 3,068,-344, 12–11–62, Cl. 214—68.

Keinath, Alvin. Lawn edger. 3,058,530, 10–16–62, Cl. 172—13.

Keiper, Francis P., Jr. · *See*—
Paz, Harold J., and Keiper. 3,030,586.

Keiper, Francis P., Jr., to Philco Corp. Stable output pulse producing system. 3,021,435, 2–13–62, Cl. 307—88.5.

Keiper, Francis P., Jr., to Philco Corp. Frequency modulation detector system. 3,022,462, 2–20–62, Cl. 329—126.

Keiper, Francis P., Jr., J. B. Chatten, and S. W. Mouiton, to Philco Corp. Color television receiver indexing apparatus. 3,041,392, 6–26–62, Cl. 178—5.4.

Keiper, Fritz: *See*—
Werner, Paul, and Jung. 3,051,526.

Keir, John B.: *See*—
Gordon, Richard O., and Keir. 3,016,708.

Keiran, Floyd J., to United States of America, Navy. Variable spectrum pulse generator. 3,067,391, 12–4–62, Cl. 331—47.

Keiser, Neil, to E. I. du Pont de Nemours and Co. Injection molding machine. 3,045,283, 7–24–62, Cl. 18—30.

Keith, Carl D.: *See*—
Van Antwerpen, Robert A., Teter, Keith, and Hauel. 3,058,907.

Keith, Carl D., E. H. Burk, Jr., and J. Mooi, to Sinclair Refining Co. Process for regenerating catalysts. 3,026,-268, 3–20–62, Cl. 252—419.

Keith, Carl D., and W. P. Hettinger, Jr., to Engelhard Industries, Inc. Method of preparing platinum metal-alumina catalyst. 3,042,627, 7–3–62, Cl. 252—441.

Keith, Clifford H., to The Mead Corp. Carton. 3,031,123, 4–24–62, Cl. 229—16.

Keith, Clifford H., to The Mead Corp. Reinforced container and blank therefor. 3,069.062, 12–18–62, Cl. 229—37.

Keith, Douglas L. Ribbon shield. 3,017,981, 1–23–62, Cl. 197—170.

Keith, Garland B., to Eastman Kodak Co. Apparatus for cutting textile fibers. 3,062,082, 11–6–62, Cl. 83—411.

Keith, George H.: *See*—
Lilliendahl, William C., and Keith. 3,054,654.

Keith, John P. B.: *See*—
Mills, Edward C., and Keith. 3,037,243.

Keith, John V., to Leesona Corp. Textile winding machine. 3,048,343, 8–7–62, Cl. 242—45.

Keith, Orval A.: *See*—
Heuer, Charles A., and Keith. 3,046,758.

Keith, Percival C., to Hydrocarbon Research, Inc. Cyclic process for transporting methane. 3,018,632, 1–30–62, Cl. 62—9.

Keith, Rayland D., and J. V. Hollowell; said Hollowell assor. to said Keith. Amusement rides. 3,015,488, 1–2–62, Cl. 272—36.

Keith, Wayne C.: *See*—
Butler, William R., Moore, Keith, and Sanborn. 3,057,-271.

Keithahn, Julian D.: *See*—
Baker, John R., and Keithahn. 3.054,415.
Clark, Earnest H., Jr., and Keithahn. 3,051,246.
Clark, Earnest H., Jr., and Keithahn. 3,064,738.

Keithahn, Julian D., to Baker Oil Tools, Inc. Drill pipe float valves. 3,016,914, 1–16–62, Cl. 137—515.

Keithahn, Julian D., to Baker Oil Tools, Inc. Control apparatus for subsurface well tools. 3,021,902, 2–20–62, Cl. 166—237.

Keithahn, Julian D., to Baker Oil Tools, Inc. Milling apparatus for removing objects from well bores. 3,045,752, 7–24–62, Cl. 166—55.

Keithahn, Julian D., to Baker Oil Tools, Inc. Drill pipe float valves. 3.058.534. 10–16–62, Cl. 175—318.

Keithler, William R.: *See*—
Lopata, Stanley L., and Keithler. 3,056,684.

Keithley, Joseph F., and M. L. Sands. Pressure-time responsive electronic firing device. 3,044,398, 7–17–62, Cl. 102—18.

Kekish, George T.: *See*—
Feldt, Charles A., and Kekish. 3,047,516.

Kelch, Heinz: *See*—
Haupt, Wilhelm, Kelch, and Straub. 3,031,103.

Kelchner, Harley E. to Burroughs Corp. Light responsive photo-optical keyboard. 3,056,030, 9–25–62, Cl. 250—209.

Kelchner, Harley E., to Burroughs Corp. Electrical wiper mount. 3,068,444, 12–11–62, Cl. 339—220.

Kelco Co.: *See*—
Hunter, Austin R. 3.016.302.
O'Connell, John J. 3,067,038.

Kelday, Roy M., and F. L. Hayden, to The Steel Co. of Canada Ltd. Wire drawing die. 3,038,592, 6–12–62, Cl. 205—29.

Keleket X-Ray Corp.: *See*—
Haupt, Walter H. 3,068,357.

Kelem, Howard. Machine for tying cases. 3,017,638, 1–23–62, Cl. 1—329.

Kelemen, Denis G.: *See*—
Siemons, Willem J., Kelemen, and Steckl. 3,046,100.
Kelemen, Denis G., to E. I. du Pont de Nemours and Co. Process for the production of silicon. 3,017,251, 1–16–62, Cl. 23—223.5.
Kelemencky, Monroe R., to The Singer Mfg. Co. Sewing machines. 3,053,204, 9–11–62, Cl. 112—2.
Kelen, Andreas: *See*—
Virsberg, Lars-Goran, and Kelen. 3,066,180.
Kelgard, Erik, to Nordberg Mfg. Co. Temperature responsive apparatus for controlling turbocharged engines. 3,018,617, 1–30–62, Cl. 60—13.
Kelk, Eric, to British Insulated Callender's Cables Ltd. Paper for use in the manufacture of electric cables and capacitors and other purposes. 3,062,912, 11–6–62, Cl. 174—120.
Kell, Nathaniel B., to General Motors Corp. Brake adjuster. 3,026,976, 3–27–62, Cl. 188—196.
Kell, Ray D., to Radio Corp. of America. Indicator and/or control system. 3,060,422, 10–23–62, Cl. 343—7.3.
Kell, Ray D., to Radio Corp. of America. Display device. 3,064,134, 11–13–62, Cl. 250—213.
Kell, Waldo R., to Cen-Vi-Ro Pipe Corp. Pipe coating process and apparatus. 3,036,931, 5–29–62, Cl. 117—94.
Kellar, George E. Double disc, bidirectional-flow, gate valve. 3,027,135, 3–27–62, Cl. 251—199.
Kellehar, Richard L.: *See*—
Bowman, Sidney B. 3,032,395.
Keller, Aaron L., and M. R. Kuehnle, to Itek Corp. Data processing for edge coded cards. 3,034,643, 5–15–62, Cl. 209—74.
Keller, Arthur C., R. L. Peek, Jr., C. Schneider, and C. F. Spahn, Jr., to Bell Telephone Laboratories, Inc. Relay. 3,042,773, 7–3–62, Cl. 200—104.
Keller, August, and A. Csizmansky, to Dura Corp. Automatic convertible bed. 3,056,973, 10–9–62, Cl. 5—13.
Keller, Daniel F.: *See*—
Wanielista, Walter, and Keller. 3,028,786.
Keller, Daniel F., and H. E. Gunning, to D. F. Keller. Apparatus for electrophotographic printing. 3,028,799, 4–10–62, Cl. 95—1.7.
Keller, Daniel F., and W. Beck, Jr., to Robertson Photo-Mechanix, Inc. Photographic apparatus. 3,040,642, 6–26–62, Cl. 95—14.
Keller, Edward E., and R. R. Medico, to General Dynamics Corp., (Convair Division). Temperature indicating device. 3,059,474, 10–23–62, Cl. 73—358.
Keller, Edwin G., to Dunham-Bush, Inc. Centrifugal pump and motor. 3,040,668, 6–26–62, Cl. 103—87.
Keller, Edwin H., to E. I. du Pont de Nemours and Co. Fishing line. 3,063,189, 11–13–62, Cl. 43—44.98.
Keller, Ernest A., to ISI, Inc. Magnetic core annunciator system. 3,039,085, 6–12–62, Cl. 340—213.
Keller, Ernst, P. Hindermann, and J.-P. Jung, to Ilford Ltd. Photographic color element with novel cyan dye. 3,038,802, 6–12–62, Cl. 96—73.
Keller, Fred: *See*—
Hollingsworth, Ernest H., and Keller. 3,043,754.
Keller, Fred, and W. G. Zelley, to Aluminum Co. of America. Coating aluminum surfaces. 3,039,898, 6–19–62, Cl. 148—6.14.
Keller, Fred, and W. G. Zelley, to Aluminum Co. of America. Treating aluminum surfaces. 3,039,899, 6–19–62, Cl. 148—6.14.
Keller, George D., to Brooks Instrument Co., Inc. Long travel magnetic follower device. 3,065,635, 11–27–62, Cl. 73—319.
Keller, Gunther: *See*—
Rindtorff, Embrecht, Schmitt, and Keller. 3,035,037.
Keller, Harold A.: *See*—
Bowling, Robert T., Edward, Keller, and Scheelke. 3,017,909.
Keller, Herman, and C. R. Waldron, to The Bendix Corp. Crimping tool with adjusting means. 3,028,776, 4–10–62, Cl. 81—15.
Keller, James L., to Union Oil Co. of California. Internal combustion engine fuel. 3,035,905, 5–22–62, Cl. 44—58.
Keller, James L., F. S. Liggett, and C. E. Wilson, to Union Oil Co. of California. Automative fuel. 3,020,134, 2–6–62, Cl. 44—58.
Keller, John D.: *See*—
Nichols, Howard H., and Keller. 3,061,194.
Keller, John W., to Miami Shipbuilding Corp. Submergence measuring apparatus. 3,051,000, 8–28–62, Cl. 73—304.
Keller & Knappich G.m.b.H.: *See*—
Uhl, Siegfried. 3,017,808.
Keller, Merrill E. Casing bracket. 3,021,104, 2–13–62, Cl. 248—222.
Keller, Millard W., Jr.: *See*—
Wilkens, Carl E., and Keller. 3,050,035.
Keller, Philip B. Method of fabricating O-rings. 3,026,569, 3–27–62, Cl. 18—53.
Keller, Ralph E., and C. Coy, to Kalamazoo Mfg. Co. Ballast distributing machine for railroads. 3,047,968, 8–7–62. Cl. 37—104.
Keller, Richard: *See*—
Plock, Karl, Keller, and Quest. 3,032,077.
Keller, Richard, K. Quest, W. Schroer, and F. Lochschmidt, to Dr. B. Kaiser and Dr. E. Pauls. Filling device for bottle- and container-filling machines. 3,048,206, 8–7–62, Cl. 141—371.
Keller, Richard F., Jr. Hydraulic pile extractor. 3,020,965, 2–13–62, Cl. 175—422.
Keller, Robert C., to General Motors Corp. Transmission control. 3,016,758, 1–16–62, Cl. 74—473.
Keller, Robert G., to United States of America, Army. Stress-resistant flexible food package. 3,035,924, 5–22–62, Cl. 99—171.
Keller, Robert J., III. Valves. 3,052,258, 9–4–62, Cl. 137—454.5.
Keller, Roger P., and J. J. Renier, to Minneapolis-Honeywell Regulator Co. Condition responsive apparatus. 3,017,592, 1–16–62, Cl. 338—28.
Keller, Rudolf, J. Schneiders, and G. Wenner, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of dialkyl esters of iso- and/or terephthalic acid. 3,060,222, 10–23–62, Cl. 260—475.
Keller, Thomas C.: *See*—
Horger, Oscar J., and Keller. 3,061,385.
Keller, Wayne H., and G. L. Martin, to National Research Corp. Method for producing tantalum. 3,031,295, 4–24–62, Cl. 75—84.4.
Keller, William M. Hydraulic shock absorbing device. 3,023,-915, 3–6–62, Cl. 213—31.
Keller, Wolfgang, and A. Hoffmann, to Siemens-Schuckert-werke Aktiengesellschaft. Method and apparatus for zone melting semiconductor material. 3,046,379, 7–24–62, Cl. 219—10.77.
Keller, Wolfgang, and R. Emeis, to Siemens-Schuckertwerke Aktiengesellschaft. Apparatus for crucible-free zone melting of semiconductor rods. 3,053,918, 9–11–62, Cl. 13—1.
Kellermann, Rudolf. Heat-treating metals. 3,016,314, 1–9–62, Cl. 148—13.
Kellet Aircraft Corp.: *See*—
Goland, Leonard, Gebhardt, and Kenworthy. 3,027,948.
Kellet, William H.: *See*—
Critchley, Octavius H., Barron, and Kellet. 3,052,116.
Kelley, Athol A.: *See*—
Allen, Wade W., and Kelley. 3,023,668.
Kelley, Bartram, R. R. Lynn, and F. J. Wagner, to Bell Aerospace Corp. Device to alter dynamic characteristics of rotor systems. 3,035,643, 5–22–62, Cl. 170—160.13.
Kelley, Charles K. Machine shop vise. 3,063,707, 11–13–62, Cl. 269—204.
Kelley, Charles R., to Dunlap and Associates, Inc. Control circuit. 3,037,201, 5–29–62, Cl. 340—179.
Kelley Co., Inc.: *See*—
Kelley, Garrett P. Re. 25,249.
Kelley, Dale T., to Motorola, Inc. Method for making semiconductor device. 3,060,553, 10–30–62, Cl. 29—25.3.
Kelley, Dale T., to Motorola, Inc. Semiconductor device. 3,061,766, 10–30–62, Cl. 317—234.
Kelley, Dewitt T.: *See*—
Milton, Charles B., and Kelley. 3,035,947.
Kelley, Dewitt T., E. S. Babcock, and E. M. Holub, to Union Carbide Corp. Powder washing apparatus. 3,033,133, 5–8–62, Cl. 110—22.
Kelley, Donald E., W. H. Moll, S. L. Parsons, and G. F. Pascale, to Philco Corp. Thickness modifying apparatus. 3,042,603, 7–3–62, Cl. 204—228.
Kelley, Fred W., Jr.: *See*—
Bowar, Gerald J., Kelley, and Wiles. 3,031,653.
Hansen, Albert, Jr., Kelley, Somos, and Tobin. 3,070,-739.
Kelley, Fred W., Jr., to General Electric Co. High-gain magnetic amplifiers. 3,060,369, 10–23–62, Cl. 323—89.
Kelley, Garrett P. Dockboard. 3,017,646, 1–23–62, Cl. 14—71.
Kelley, Gilbert A.: *See*—
Valentine, Dale M., and Kelley. 3,018,231.
Kelley, Gilbert A., to Midland-Ross Corp. Air purification. 3,065,043, 11–20–62, Cl. 21—53.
Kelley, Gilbert A., H. E. Rahm, and F. B. Oates, to Midland-Ross Corp. Method for extruding gelatinous materials. 3,067,468, 12–11–62, Cl. 18—47.5.
Kelley, Hugh, to The C. B. Ehrsam & Sons Mfg. Co. Hub mounting means. 3,023,035, 2–27–62, Cl. 287—52.
Kelley, John A. Article carrier. 3,059,875, 10–23–62, Cl. 243—35.
Kelley, John P., Jr., to The Dow Chemical Co. Electrical conductors and methods of manufacture thereof. 3,067,569, 12–11–62, Cl. 57—139.
Kelley, Joseph J., Jr. Magnetic pick-up for steel string instruments. 3,066,567, 12–4–62, Cl. 84—1.16.
Kelley, Joseph M., Jr.: *See*—
Lovett, John R., and Kelley. 3,040,014.
Kelley, Leon O. Ripper shank adjustment devices. 3,050,-135, 8–21–62, Cl. 172—681.
Kelley, Louis E.: *See*—
Carr, Charles A., Jr., and Kelley. 3,050,425.
Kelley, Neil T.: *See*—
Sturtevant, Mark J., and Kelley. 3,059,562.
Kelley, Oliver K.: *See*—
Hause, Gilbert K., and Kelley. 3,062,074.
Winchell, Frank J., and Kelley. 3,019,668.
Kelley, Oliver K., to General Motors Corp. Transmission. 3,019,670, 2–6–62, Cl. 74—677.
Kelley, Oliver K., to General Motors Corp. Hydrodynamic torque converters. 3,025,720, 3–20–62, Cl. 74—677.
Kelley, Oliver K., to General Motors Corp. Balanced inertia step ratio transmissions. 3,027,783, 4–3–62, Cl. 74—752.
Kelley, Oliver K., to General Motors Corp. Transmission. 3,030,823, 4–24–62, Cl. 74—677.

Kelley, Oliver K., to General Motors Corp. Transmission brake. 3,033,053, 5–8–62, Cl. 74—472.
Kelley, Oliver K., to General Motors Corp. Transmission. 3,033,058, 5–8–62, Cl. 74—730.
Kelley, Oliver K., to General Motors Corp. Transmission. 3,033,327, 5–8–62, Cl. 188—264.
Kelley, Oliver K., to General Motors Corp. Windshield and rear window seals. 3,037,810, 6–5–62, Cl. 296—93.
Kelley, Oliver K., to General Motors Corp. Combination disk and drum vehicle braking system. 3,042,155, 7–3–62, Cl. 188—264.
Kelley, Oliver K., to General Motors Corp. Brake mechanism. 3,043,403, 7–10–62, Cl. 188—69.
Kelley, Oliver K., to General Motors Corp. Transmission. 3,053,051, 9–11–62, Cl. 60—54.
Kelley, Oliver K., to General Motors Corp. Transmission. 3,068,976, 12–18–62, Cl. 192—13.
Kelley, Oliver K., and G. K. Hause, to General Motors Corp. Triple turbine bus and truck transmissions. 3,021,727, 2–20–62, Cl. 74—677.
Kelley, Oliver K., S. L. Buckay, and P. J. King, to General Motors Corp. Balanced inertia piural step-ratio transmissions. 3,023,636, 3–6–62, Cl. 74—677.
Kelley, Oliver K., and J. D. Lindsay, to General Motors Corp. Multiple stator torque converter. 3,025,719, 3–20–62, Cl. 74—677.
Kelley, Oliver K., and G. K. Hause, to General Motors Corp. Disc brake actuating and adjusting mechanism. 3,048,241, 8–7–62, Cl. 188—72.
Kelley, Percy W.: *See*—
Nauman, Henry A., and Kelley. 3,062,349.
Kelley, Robert C. Remote control servosystem. 3,020,457, 2–6–62, Cl. 318—16.
Kelley, Walter A.: *See*—
Rose, Samuel W., Crow, and Kelley. 3,041,507.
Kelley, Walter A., and H. J. Hummel, to Motorola, Inc. Electronic circuit. 3,027,455, 3–27–62, Cl. 250—20.
Kelling, Harmon H., and G. H. Okubo, to Hughes Aircraft Corp. Isolator with housing. 3,068,430, 12–11–62, Cl. 333—24.2.
Kelling, Leroy U. C., to General Electric Co. Positioning control system having an extended working zone control transformer synchro. 3,035,214, 5–15–62, Cl. 318—28.
Kelling Nut Co., The: *See*—
Johnson, Carl E. 3,062,607.
Kellner, Ferdinand, to Novoflex Fotogeratebau Karl Muller. Telescoping telephoto lens. 3,045,550, 7–24–62, Cl. 88—57.
Kellner, Jackson M., to Jersey Production Research Co. Extensible drill bit. 3,024,855, 3–13–62, Cl. 175—317.
Kellner, John R.: *See*—
Kranitz, Arthur, and Kellner. 3,041,444.
Kellner, Theodore K.: *See*—
Wagner, Samuel, and Kellner. 3,051,423.
Kellogg & Burger: *See*—
Kellogg, Neal H. 3,062,280.
Kellogg, Charles T., to Clemson Bros., Inc. Container and dispenser for coiled strip stock, bandsaw blade stock, and the like. 3,015,384, 1–2–62, Cl. 206—52.
Kellogg, George E.: *See*—
Kenrick, Charles R., and Kellogg. 3,056,543.
Kellogg, George E., to General Motors Corp. Fluid seal. 3,033,578, 5–8–62, Cl. 286—26.
Kellogg, George E., to General Motors Corp. Hydraulic booster unit. 3,054,387, 9–18–62, Cl. 121—41.
Kellogg, George E., and W. V. Kenzik, to General Motors Corp. Diaphragm brake booster. 3,016,880, 1–16–62, Cl. 121—41.
Kellogg, George E., and C. R. Kenrick, to General Motors Corp. Pedal connector. 3,052,130, 9–4–62, Cl. 74—105.
Kellogg, George E., and C. R. Kenrick, to General Motors Corp. Brake booster unit. 3,057,332, 10–9–62, Cl. 121—41.
Kellogg, Harry B., to Kimberly-Clark Corp. Heated fluid drier for a papermaking machine. 3,056,213, 10–2–62, Cl. 34—23.
Kellogg, James R.: *See*—
Dillon, Edward M. 3,063,180.
Kellogg, M. W., Co., The: *See*—
Barry, Martin J. 3,069,247.
Costello, Robert B. 3,017,514.
Cox, Robert P., and Martin. 3,057,807.
Davis, Horace R., Jr., and Sorensen. 3,043,879.
Dwyer, John B. 3,040,718.
Dwyer, John B. 3,048,476.
Frank, Sidney M., Peterson, and Pfeiffer. 3,053,914.
Georgs, Henry O. 3,053,758.
Grover, Shamsher S., Grubb, and Walk. 3,023,842.
Grubb, George C., Walk, and Grover. 3,023,843.
Hanford, William E., Copenhaver, and Davis. 3,052,667.
Kalil, Emil O. 3,024,594.
Kalil, Emil O. 3,034,291.
Kraus, John W., and Stern. 3,070,642.
Loudon, Donald E., and Schreiner. 3,052,523.
McGrath, Henry G., and Vincent. 3,033,780.
Nagy, Roland L., and Rice. 3,053,641.
Nathan, Marvin F. 3,032,477.
Nathan, Marvin F., Howard, and McGrath. 3,043,769.
Osborne, John B. 3,053,643.
Osborne, John B. 3,063,932.
Palazzo, Dominic F., and Schreiner. 3,026,682.
Palazzo, Dominic F., and Schreiner. 3,026,683.
Pfeiffer, Robert W., and Patton. 3,070,640.
Schreiner, Warren C., and Loudon. 3,025,140.
Kellogg, M. W., Co., The: *See*—Continued
Schreiner, Warren C., and Loudon. 3,026,181.
Schwarzenbek, Eugene F. 3,066,176.
Slyngstad, Charles E., and Nagy. 3,053,753.
Spector, Marshall L. 3,068,304.
Stanford, George W., and Partridge. 3,018,244.
Sterling, Edwin. 3,062,639.
Stiles, Samuel R. 3,068,308.
Swanson, Paul F. 3,053,752.
Yarze, Joseph C., and Friedrich. 3,056,659.
White, Thomas C. 3,064,029.
Kellogg, Neal H., to Kellogg & Burger. Shower curtain unit for bath alcoves. 3,062,280, 11–6–62, Cl. 160—341.
Kellogg, Robert M.: *See*—
Darwin, Daniel P., and Kellogg. 3,066,859.
Kellon, David B.: *See*—
Britton, Edgar C., Horsley, and Kellon. 3,033,884.
Kelly, Daniel A. Ventilator. 3,046,865, 7–31–62, Cl. 98—2.
Kelly, De Loy H., and J. A. Van den Broek, to Sylvania Electric Products Inc. Camera. 3,036,505, 5–29–62, Cl. 95—10.
Kelly, Donald H.: *See*—
Mason, Robert W., and Kelly. 3,043,664.
Kelly, Edward P.: *See*—
Kelly, James M. and E. P., and Schmitt. 3,058,197.
Kelly, Edward T., and J. M. Schaffer, to Waterloo Register Co. Air supply grille. 3,031,945, 5–1–62, Cl. 98—110.
Kelly, Garrett P., to Kelley Co., Inc. Adjustable dockboard. Re. 25,249, 10–2–62, Cl. 14—71.
Kelly, Harold C.: *See*—
Beaver, Garth H., and Kelly. 3,054,688.
Kelly, James G., to The American Tobacco Co. Automatic sliding gate for vibrating conveyor. 3,043,420, 7–10–62, Cl. 198—220.
Kelly, James M. and E. P., and H. H. Schmitt, to Westinghouse Electric Corp. Die shaving wrought copper and its alloys. 3,058,197, 10–16–62, Cl. 29—95.1.
Kelly, Joe T.: *See*—
Knight, Harmon M., and Kelly. 3,024,204.
Knight, Harmon M., and Kelly. 3,030,433.
Knight, Harmon M., and Kelly. 3,066,131.
Sechrist, Clifton N., Jennings, and Kelly. 3,042,730.
Kelly, Kenneth C.: *See*—
Goeglein, Frank J., Jr., and Kelly. 3,022,506.
Kelly, Kenneth C., to Hughes Aircraft Co. Scanning antenna. 3,018,479, 1–23–62, Cl. 343—762.
Kelly, Kenneth C., to Hughes Aircraft Co. Linearly polarized monopulse lobing antenna having cancellation of cross-polarization components in the principal lobe. 3,063,049, 11–6–62, Cl. 343—771.
Kelly, Leonard: *See*—
Hutter, James F., and Kelly. 3,049,215.
Kelly, Martin J., to International Business Machines Corp. Multistable magnetic core accumulator. 3,062,440, 11–6–62, Cl. 235—92.
Kelly, Martin J., to International Business Machines Corp. Code translating circuit. 3,067,414, 12–4–62, Cl. 340—347.
Kelly, Merrill H., to Lockheed Aircraft Corp. Vtol aircraft. 3,066,889, 12–4–62, Cl. 244—12.
Kelly, Murel W. Implement draw-bar floating hitch. 3,025,-915, 3–20–62, Cl. 172—445.
Kelly, Myron G., 50% to R. Blakeman. Lead-off splice block for continuous and other cables. 3,047,835, 7–31–62, Cl. 339—242.
Kelly, Pennell C., and N. L. Hardwicke, to Monsanto Chemical Co. Method of treating polyethylene structures. 3,018,195, 1–23–62, Cl. 117—138.8.
Kelly, Robert L.: *See*—
Hailston, Ellis W., and Kelly. 3,058,400.
Kelly, Thomas J.: *See*—
Mertes, Thomas S., and Kelly. 3,043,793.
Kelly, Thomas J. Vegetable cleaner. 3,066,334, 12–4–62, Cl. 15—3.12.
Kelly, Thomas N., to Aircraft Precision Products, Inc. Method of manufacturing replaceable labyrinth type seal assembly. 3,046,648, 7–31–62, Cl. 29—455.
Kelly, William A., to Lever Brothers Co. Soap bar compositions. 3,043,778, 7–10–62, Cl. 252—107.
Kelly, William D., to Ferro Corp. Thermostatic control unit. 3,015,710, 1–2–62, Cl. 219—20.
Kelly, William D., to Ferro Corp. Method of and apparatus for making spiral tubular sheathed electric heaters. 3,024,-833, 3–13–62, Cl. 153—64.
Kelly, William E., Jr., to The Thomas & Betts Co. Adjustable outlet box. 3,064,850, 11–20–62, Cl. 220—3.7.
Kelmers, Andrew D., to Union Carbide Corp. Preparation of ammonium metavanadate. 3,063,796, 11–13–62, Cl. 23—51.
Kelner, Robert C.: *See*—
Lawrence, Thomas E., Kelner, Gardiner, and Evans. 3,054,987.
Kelner, Robert C., to Laboratory for Electronics, Inc. Reversible magnetic shift register. 3,046,530, 7–24–62, Cl. 340—174.
Kelsey-Hayes Co.: *See*—
Atkin, Rupert L. 3,067,796.
Ayers, David T., Jr. 3,051,530.
Ayers, David T., Jr., and Hill. 3,067,727.
Burnell, Floyd E. 3,017,692.
Clair, Verne, Jr. 3,059,808.
Hibbard, Thomas L. 3,049,379.

Kelsey-Hayes Co.: *See*—Continued
Hibbard, Thomas L., and Sinclair. 3,061,053.
Hill, Edward G. 3,030,154.
Hill, Edward G. 3,035,552.
Hill, Edward G. 3,063,427.
Hill, Edward G., and Phillips. 3,022,115.
Ingres, Jeannot G. 3,017,962.
Klavon, Joseph A., Jr. 3,049,192.
Malthaner, Sylvester A. 3,035,667.
Sharpe, Frederick P. 3,029,498.
Sharpe, Frederick P. 3,046,643.
Sharpe, Frederick P. 3,061,115.
Sharpe, Frederick P. 3,061,145.
Sharpe, Frederick P. 3,067,472.
Sharpe, Frederick P. 3,067,708.
Stelzer, William. 3,017,866.
Stelzer, William. 3,018,139.
Stelzer, William. 3,026,852.
Stelzer, William. 3,026,853.
Stelzer, William. 3,030,127.
Stelzer, William. 3,040,743.
Stelzer, William. 3,041,114.
Swift, Harvey E. 3,061,051.
Zysk, Stanley A. 3,044,328.
Zysk, Stanley A., and Rozmus. 3,026,603.
Kelsey, Walter W., 45% to W. D. Bailey. Magazine-type clip forceps. 3,047,874. 8—1—62. Cl. 1—349.
Kelsh, Harry T., to The Kelsh Instrument Co., Inc. Variable diaphragm for photogrammetric projection instrument. 3,033,076. 5–8–62. Cl. 88—24.
Kelsh Instrument Co., Inc., The: *See*—
Kelsh, Harry T. 3,033,076.
Kelso, Clarence L. Pipe wall supporting mechanism. 3,043,361. 7–10–62. Cl. 153—63.
Kelso, John W., to United States Steel Corp. Threaded well casing joint having compressive loading means. 3,042,429, 7–3–62. Cl. 285—334.
Kelso, Robert G.: *See*—
Anderson, Kenneth H., and Kelso. 3,037,040.
Anderson, Kenneth H., and Kelso. 3,068,195.
Keltner, Haskell O. Tool for sealing a fissure along a mine shaft. 3,054,455. 9–18–62. Cl. 166—187.
Kelton, Donald W.: *See*—
Welland, Richard H., and Kelton. 3,051,419.
Keltz, Laurence. Electromagnetic pump. 3,030,888, 4–24–62, Cl. 103—1.
Kelver, William L.: *See*—
Di Girolamo, Joseph, and Kelver. 3,023,388.
Kelvin & Hughes Ltd.: *See*—
Haslett, Roy W. G., Hopkin, and Benning. 3,019,411.
Kem Button Corp.: *See*—
Halbreich, Oscar. 3,042,255.
Kember Raymond C., to Thorn Electrical Industries Ltd. Supports for suspended ceilings. 3,067,323, 12–4–62, Cl. 240—9.
Kemelhor, Robert E. Unitary fluid magnetic spring, shock and lockout device. 3,059,915, 10–23–62, Cl. 267—1.
Kemenczky establishment: *See*—
Kemenczky, Miklos. 3,060,682.
Kemenczky, Miklos, to Kemenczky establishment. Jet propulsion engine for watercraft. 3,060,682, 10–30–62, Cl. 60—35.6.
Kemeny, Janos, and L. Gubanyi. Plaster applying apparatus. 3,039,164. 6–19–62. Cl. 25—14.5.
Kemeny, Julius, to General Electric Co. Remote control transmitter. 3,046,933. 7–31–62. Cl. 116—137.
Kemeny, Julius, to General Electric Co. Channel indicator for television tuner. 3,054,379. 9–18–62. Cl. 116—124.4.
Kemeny, Julius, to General Electric Co. Mechanical transmitter. 3,068,824. 12–18–62. Cl. 116—137.
Kemmna, Roger A., to Besly-Welles Corp. Abrasive disc and coolant arrangement. 3,041,799, 7–3–62, Cl. 51—209.
Kemmer, Jakob, to Mesbach, Gruber & Co., G.m.b.H. Closure frame for hand bags and the like. 3,048,209, 8–7–62, Cl. 150—29.
Kemnitz, Warren N., to General Electric Co. Floor cleaning apparatus. 3,048,876. 8–14–62. Cl. 15—321.
Kemnitz, Warren N., to General Electric Co. Casing construction for vacuum cleaners and the like. 3,048,961, 8–14–62. Cl. 55—471.
Kemp, Charles R., and E. F. Holmes, to U.S. Industries, Inc. Weft test programming system and programmer therefor. 3,036,599. 5–22–62. Cl. 307—115.
Kemp David P. Toilet seat lifter. 3,055,016, 9–25–62, Cl. 4—251.
Kemp, Edwin V., W. H. Jordan, and A. J. Botkin, to The Bauer Bros. Co. Thickener and washer. 3,070,005, 12–25–62, Cl. 100—146.
Kemp, Elmo C. Insert for automobile springs. 3,022,062, 2–20–62. Cl. 267—49.
Kemp, George T.: *See*—
Estes, Nelson N., Kemp, and Moore. 3,056,908.
Hurd, Ray M., and Kemp. 3,065,365.
Kemp, Glennen A. Bowling game device. 3,055,662, 9–25–62, Cl. 273—85.
Kemp, Jacob D., to California Research Corp. Dewaxing process. 3,067,125, 12–4–62, Cl. 208—33.
Kemp, Kenneth A. W., to C.A.V. Ltd. Liquid fuel pumps. 3,051,154, 8–28–62, Cl. 123—139.
Kemp, Kenneth A. W., and K. F. Hutcheon, to C. A. V. Ltd. Variable delivery pumps. 3,035,523, 5–22–62, Cl. 103—44.
Kemp, Oscar. Automatic snow pick-up and melting device. 3,036,391, 5–29–62, Cl. 37—12.
Kemp Products Ltd.: *See*—
Steele, James G., and McKee. 3,069,055.
Kemp, Robert F., to Space Technology Laboratories, Inc. Transducing method and system. 3,044,045, 7–10–62, Cl. 340—174.1.
Kemp, Robert S. Coin controlled commodity vending apparatus. 3,050,168, 8–21–62, Cl. 194—10.
Kemp, William G. Acoustical unit with attenuation means. 3,021,915, 2–20–62, Cl. 181—33.
Kemp, William G. Reinforced acoustical unit. 3,021,916, 2–20–62. Cl. 181—33.
Kemp, William G. Heat exchange structure. 3,049,341, 8–14–62. Cl. 257—124.
Kemp, Woodrow E., to Koppers Co., Inc. Method of protecting wood from marine organisms. 3,058,839, 10–16–62, Cl. 117—72.
Kemp, Woodrow E., and J. J. Lane, to Koppers Co., Inc. Coal tar emulsions containing synthetic resin and filler. 3,027,342, 3–27–62, Cl. 260—28.5.
Kempel, Hubert, and E. C. Seward. Vehicle hoisting arrangement. 3,021,166, 2–13–62. Cl. 294—74.
Kemper, Arthur L.: *See*—
Broadhead, Samuel L., Jr., and Kemper. 3,049,667.
Kempermann, Theo: *See*—
Lober, Friedrich, Roos, and Kempermann. 3,022,275.
Seydel, Robert, Kempermann, Hahn, and Stroh. 3,048,-563.
Kempf, Oskar, to A. Belz. Lock for flat knitting machine. 3,066,509, 12–4–62, Cl. 66—75.
Kempf, Willi, to Gelenkwellenbau G.m.b.H. Lubricating device for joints of universal joint shafts and the like. 3,042,148, 7–3–62, Cl. 184—6.
Kempf, Willi, to Gelenkwellenbau G.m.b.H. Tubular shaft, especially universal joint shaft. 3,052,107, 9–4–62, Cl. 64—1.
Kempf, Willi, to Gelenkwellenbau G.m.b.H. End bearing for joint studs. 3,050,351, 8–21–62, Cl. 308—174.
Kempff, Wolfgang A., and J. E. Lepetich, to Federal-Mogul-Bower Bearings, Inc. Steel insert die-cast face seal. 3,027,185, 3–27–62, Cl. 277—2.
Kempner, Robert M. Advertising holder for grocery cart. 3,024,554, 3–13–62, Cl. 40—308.
Kempson, Bertram C., to Dowty Hydraulic Units Ltd. Hydraulic apparatus. 3,017,750, 1–23–62, Cl. 60—52.
Kemter, Heinz: *See*—
Mauersberger, Heinrich, and Kemter. 3,058,193.
Ken-Lab, Inc.: *See*—
Wood, William H. 3,059,597.
Ken-Tool Mfg. Co., The: *See*—
Lydle, John E. 3,050,110.
Kenann, John G.: *See*—
Kowalski, Slawomir, and Kenann. 3,022,978.
Kenbeck Co.: *See*—
Becker, Kenneth F. 3,038,572.
Kenco Products Corp.: *See*—
Rapaport, Myron S. 3,016,929.
Kenco Pump Divisions of the American Crucible Products Co.: *See*—
Tutthill, Fred E. 3,070,021.
Kendall, Alonzo B.: *See*—
Coash, Robert E., and Kendall. 3,050,205.
Kendall, Charles E.: *See*—
Watson, John W., Kendall, and Jervis. 3,025,259.
Watson, John W., Kendall, and Jervis. 3,043,708.
Kendall Co., The: *See*—
Alexander Raymond, Schupan, and Abbott. 3,029,675.
Egler, Vernon C., and Morgan. 3,062,372.
Hoey, Raymond M., and Kaiser. 3,051,307.
Laakso, Pertti V. 3,037,905.
Marshall, Preston F. 3,039,170.
Marshall, Preston F. 3,041,812.
Patience, Donald. 3,062,371.
Samour, Carlos M. 3,058,930.
Samour, Carlos M. 3,058,964.
Schaar, Charles H. 3,038,198.
Seltzer, Norman L. 3,037,532.
Tritsch, Ludwig. 3,027,337.
Whitman, Ross C. 3,015,335.
Kendall, Giles A., to Menasco Mfg. Co. Dampers and damped springs. 3,053,526, 9–11–62, Cl. 267—1.
Kendall, Giles A., to Menasco Mfg. Co. Apparatus utilizing liquid substances over large temperature range. 3,067,841, 12–11–62. Cl. 188—100.
Kendall, Harold M., and J. A. Krizka, to Paktronic Machine Corp. Container forming machine. 3,069,980, 12–25–62, Cl. 93—55.1.
Kendall, Hugh C.: *See*—
Auer, John H., Jr., Bolton, Kendall, and Hagen. 3,046,-544.
Kendall, Hugh C., J. H. Auer, Jr., N. A. Bolton, and K. H. Frielinghause, to General Railway Signal Co. Object or vehicle detection systems. 3,042,303, 7–3–62. Cl. 235—99.
Kendall, Hugh C., J. H. Auer, Jr., N. A. Bolton, and K. H. Frielinghaus, to General Railway Signal Co. Ultrasonic vehicle detection system. 3,042,899, 7–3–62, Cl. 340—38.
Kendall Jackson W., Jr.: *See*—
Foote, Willis B., and Kendall. 3,028,516.
Kendall, Jackson W., Jr., L. G. Perry, and R. H. Hardenbergh. Electron tube. 3,023,341, 2–27–62, Cl. 313—250.

Kendall, James M. Sound responsive coded signal signal demolition device. 3,027,837, 4–3–62, Cl. 102—18.

Kendall, Kenneth K., Jr.: *See*—
Nies, Nelson P., and Kendall. 3,069,229.

Kendall, Paul A. High speed shutter. 3,049,982, 8–21–62, Cl. 95—55.

Kendall, William L., to Nylonge Corp. Method for testing regenerated cellulose sponge. 3,036,459, 5–29–62, Cl. 73—95.

Kendrick, John W. Injection means for injecting serum, vaccine, virus and the like into animals, and method. 3,016,-897, 1–16–62, Cl. 128—218.2.

Kendrick, Marron, to Schlage Lock Co. Mounting plate and rose. 3,017,213, 1–16–62, Cl. 292—357.

Kendt, Norman L., and J. M. Corl, to General Electric Co. Retractable electric power cord mechanism. 3,032,291, 5–1–62, Cl. 242—107.

Kenefick, Francis J. Steering and reversing mechanism for hydrojet propulsion units for boats. 3,052,093, 9–4–62, Cl. 60—35.54.

Kenfield, Kenneth R., to Bendix-Westinghouse Automotive Air Brake Co. Fluid pressure valve mechanism. 3,025,-869, 3–20–62, Cl. 137—102.

Kenin, Russell S., to The Dow Chemical Co. Weaving unsized yarns. 3,033,239, 5–8–62, Cl. 139—35.

Kenk, Erhard. Weft thread cutting device. 3,043,346, 7–10–62, Cl. 139—303.

Kenkman, Charles: *See*—
Jensen, Thormod, Kenkman, and Plumb. 3,057,125.

Kenmore Machine Products, Inc.: *See*—
Straubing, Charles R. 3,045,741.

Kenmore Research Co.: *See*—
Allen, Lloyd R., and Woodard. 3,069,387.

Kennametal Inc.: *See*—
Armitage, Harry J. 3,027,693.
McKenna, Philip M. 3,022,017.

Kennar, George A.: *See*—
Brown, Gordon E., Cox, and Kennar. 3,058,954.

Kennard, George J.: *See*—
De George, Peter J., and Kennard. 3,028,078.

Kennard, Kenneth C.: *See*—
Burness, Donald M., Kennard, and Cossar. 3,061,437.

Kennard, Olga, and L. L. Woodget, to National Research Development Corp. Measurement of densities of photographic images. 3,028,496, 4–3–62, Cl. 250—106.

Kennard, Thomas A. Retrieving tool. 3,019,840. 2–6–62, Cl. 166—55.

Kennaway, Thomas: *See*—
Landau, Manfred, Todhunter, and Kennaway. 3,061,421.

Kennecott Copper Corp.: *See*—
Back, Alexander E., Beck, and Selin. 3,057,714.
Berger, Lewis W., Jaffee, and Williams. 3,038,798.

Kenneday, John W.: *See*—
Corley, Charles B., Jr., Kenneday, Tausch, and True. 3,032,109.
Tausch, Gilbert H., Corley, and Kenneday. 3,040,813.
Tausch, Gilbert H., and Kenneday. 3,032,117.
Tausch, Gilbert H., and Kenneday. 3,055,429.

Kenneday, John W. to Jersey Production Research Co. Well tool. 3,029,958, 2–3–62, Cl. 166—318.

Kennedy, Charles J.: *See*—
Rowe, Thomas H., Hammer, and Kennedy. 3,046,528.

Kennedy, Charles J., to Endeveco Corp. Differential counting system. 3,042,819, 7–3–62, Cl. 310—49.

Kennedy, D. S., & Co.: *See*—
Rowland, Howard J. 3,023,381.

Kennedy, Daniel T.: *See*—
Heiberger, Francis E., and Kennedy. 3,028,531.

Kennedy, Douglas J., to Shawinigan Chemicals Ltd. Preparation of hydrocyanic acid. 3,032,396, 5–1–62, Cl. 23—151.

Kennedy, Edward, H. Martinez, H. Paprzycki, and D. Stabilito. Article counting and loading machine. 3,028,713, 4–10–62, Cl. 53—251.

Kennedy, Edward, H. Martinez, H. Paprzycki, and D. Stabilito. Article counting and loading machine. 3,064,406, 11–20–62, Cl. 53—240.

Kennedy, Edward R., to Republic Industrial Corp. Method of making hose clamps. 3,020,631, 2–13–62, Cl. 29—417.

Kennedy, Emerson S., to K.C.G. Corp. Pelleting machine. 3 045,613, 7–24–62, Cl. 107—14.

Kennedy, Emmett F.: *See*—
Friedman, Arthur E., and Kennedy. 3,041,709.

Kennedy, Flynt, and A. Lundeen, to Continental Oil Co. Preparation of 2-substituted primary alcohols. 3,024,287, 3–6–62, Cl 260—632.

Kennedy, Frank, to United States Steel Corp. Rail-car truck mounting. 3,057,307, 10–9–62, Cl. 105—200.

Kennedy, Frank C.: *See*—
Huber, Leo F., and Kennedy. 3,062,130.

Kennedy, Frank J., to H. K. Porter Co., Inc. Method of making thread protector and product obtained. 3,039,187, 6–19–62, Cl. 29—534.

Kennedy, Frank J., to H. K. Porter Co., Inc. Method of making electric conduit with alloyed coating. 3,063,918, 11–13–62, Cl. 204—37.

Kennedy, George A. Fish catcher. 3,017,715, 1–23–62, Cl. 43—16.

Kennedy, George R.: *See*—
Johnson, John A., and Kennedy. 3,047,163.

Kennedy, Harry E., and G. E. Claussen, to Union Carbide Corp. Electric arc welding. 3,023,302, 2–27–62, Cl. 219—74.

Kennedy, Harry R., C. J. Anderson, and C. V. Jones, Sr., to Southern Machinery Co. Automatic tip bunch building mechanism for spinning frames. 3,059,407, 10–23–62, Cl. 57—54.

Kennedy, James B.: *See*—
Deming, Royce D., Jacobitti, Kennedy, Large, and Pruden. 3,046,525.

Kennedy, James M., Jr. Method of producing a stock tube of weldable metal. 3,030,482, 4–17–62, Cl. 219—8.5.

Kennedy, James M., Jr., to Revere Copper and Brass, Inc. Induction heating with an internally cooled conductor having a triangular cross-section. 3,060,067, 10–23–62, Cl. 148—13.

Kennedy, James W. Street and sidewalk lighting means. 3,067,325, 12–4–62, Cl. 240—25.

Kennedy, John H.: *See*—
Hubbard, Harold M., and Kennedy. 3,047,361.
Jenkins, William A., and Kennedy. 3,034,855.

Kennedy, Keith. Mechanism to control inflation of tires. 3,026,916, 3–27–62, Cl. 141—197.

Kennedy, Manley B., and L. B. Alexander, to American Can Co. Carton lock. 3,021,993, 2–20–62, Cl. 229—36.

Kennedy, Maurice: *See*—
Long, Jasper, Hess, and Kennedy. 3,038,053.

Kennedy, Maurice E.: *See*—
Hess, Lester J., Kennedy, and Long. 3,027,537.

Kennedy, Melvin, Sr. Hosiery applicator. 3,070,271, 12–25–62, Cl. 223—111.

Kennedy, Merritt T., Jr., to Pyrate Sales, Inc. Tank cleaning device and method. 3,052,574, 9–4–62, Cl. 134—24.

Kennedy, Norman J.: *See*—
Carlick, Daniel J., Kennedy, Kutik, and Roth. 3,039,979.

Kennedy, Olive M.: *See*—
Kristek, George E. 3,021,638.

Kennedy, Raymond L.: *See*—
Carbert, Ralph E., Blomquist, and Kennedy. 3,015,374.

Kennedy, Richard E., and M. E. Griffin. Tag. 3,016,639, 1–16–62. Cl. 40—25.

Kennedy, Richard R.: *See*—
Genter, Albert L., and R. R. and R. M. Kennedy. 3,067,878.

Kennedy, Robert M.: *See*—
Genter, Albert L., and R. R. and R. M. Kennedy. 3,067,878.

Kennedy, Robert N.: *See*—
Busbong, Lloyd B., Kennedy, and Lipke. 3,051,597.

Kennedy, Robert W., to Westinghouse Electric Corp. Refrigerator storage unit. 3,063,772, 11–13–62, Cl. 312—308.

Kennedy, Serena. Collapsible outside window shading device. 3,015,358, 1–2–62, Cl. 160—20.

Kennedy, Stephen J., and E. R. Barron, to United States of America, Army. Anti-personnel mine protective shank. 3,032,894, 5–8–62. Cl. 36—1.

Kennedy, Ted. Method of forming a pipe covering. 3,024,-153, 3–6–62, Cl. 156—187.

Kennedy, Ted, Jr. Detachable casing spacer. 3,022,085, 2–20–62, Cl. 280—12.

Kennedy, Thomas B., to Diamond National Corp. Food container. 3,016,131, 1–9–62, Cl. 206—45.33.

Kennedy Van Saun Mfg. & Eng. Corp.: *See*—
Sandor, Leslie F. 3,027,553.

Kennedy, Walter B.: *See*—
Wheeler, Donald B., and Kennedy. 3,044,679.

Kennedy, Walter W., to Barber-Colman Co. Air distribution outlet. Re. 25,216, 8–7–62, Cl. 98—40.

Kennedy, Walter W., to Barber-Colman Co. Method and apparatus for ventilating laboratory fume hoods. 3,021,-776, 2–20–62. Cl. 98—115.

Kennedy, Walter W., to Barber-Colman Co. Multiple louver damper. 3,034,531, 5–15–62, Cl. 137—601.

Kennedy, Walter W., to Barber-Colman Co. Air distribution outlet. 3,051,073, 8–28–62, Cl. 98—40.

Kennedy, Walter W., to Barber-Colman Co. Air mixing valve. 3,062,234, 11–6–62, Cl. 137—607.

Kennedy, Walter W. Flow control damper. 3,070,346, 12–25–62, Cl. 251—266.

Kennedy, William A., to Collins Radio Co. Relay speed-up circuit. 3,004,165, 11–13–62, Cl. 317—148.5.

Kennedy, William D.: *See*—
Coover, Harry W., Jr., and Kennedy. 3,067,686.

Kennedy, William L.: *See*—
Kratzer, James C., Kennedy, and Balfe. 3,054,210.

Kennedy, William P. Adjustable pattern sprinkler. 3,026,-044, 3–20–62. Cl. 239—97.

Kenneford, Arthur S., to National Research Development Corp. Heat treated alloy steels. 3,070,438, 12–25–62, Cl. 75—125.

Kennemer, James L., to J. T. S. Enterprises, Inc. Automatic car starter. 3,040,724. 6–26–62. Cl. 123—179.

Kenney, Ben D., and A. B. Hildebrandt, to Jersey Production Research Co. Core orientation device. 3,032,127, 5–1–62, Cl. 175—44.

Kenney, Edward J., and P. T. Vitale, to Colgate-Palmolive Co. Herbicidal compositions adaptable to be dispensed from a pressure tight container. 3,037,854, 6–5–62, Cl. 71—2.6.

Kenney, George R. Speaker cabinet. 3,055,451, 9–25–62, Cl. 181—31.

Kenney, Harold E.: *See*—
Wall, Monroe E., Serota, and Kenney. 3,062,850.
Kenney, James E., Jr.: *See*—
Waring, Robert W., and Kenney. 3,039,897.
Kenney, Mahlon W., and J. C. Kiefer, to The Seeburg Corp. Automatic speed control mechanism for phonographs. 3,034,792, 5–15–62, Cl. 274—10.
Kenney Mfg. Co.: *See*—
Cameron, Warren B. S. 3,052,913.
Schoos, Maurice A. 3,034,839.
Kennison, Hugh F., to Lock Joint Pipe Co. Prestressed concrete pipes. 3,034,536, 5–15–62, Cl. 138—176.
Kenny, Charles R., to General Precision, Inc. Multivibrator. 3,039,066, 6–12–62, Cl. 331—113.
Kenny, Thomas H.: *See*—
Graber, Carl D., Kenny, and Grosswiller. 3,059,840.
Kenrick, Charles R.: *See*—
Kellogg, George E., and Kenrick. 3,052,130.
Kellogg, George E., and Kenrick. 3,057,332.
Kenrick, Charles R., to General Motors Corp. Brake booster control. 3,038,761, 6–12–62, Cl. 303—6.
Kenrick, Charles R., and G. E. Kellogg, to General Motors Corp. Vacuum operated air pump. 3,056,543, 10–2–62, Cl. 230—162.
Kenrick & Jefferson Ltd.: *See*—
Gibbon, James. 3,037,432.
Kent, Allen H. Cordless electric shaver. 3,035,191, 5–15–62, Cl. 310—50.
Kent, Allen H. Shaver desk set. 3,038,480, 6–12–62, Cl. 132—50.
Kent Co., Inc., The: *See*—
Ide, Frederick H., and Kimball. 3,046,718.
Kent, David E.: *See*—
Taylor, Eric W., and Kent. 3,066,187.
Kent, Earle L., and D. A. LeFevre, to C. G. Conn Ltd. Electroformed mouthpipe and mouthpiece receiver. 3,022,697, 2–27–62, Cl. 84—398.
Kent, Harry J., to General Electric Co. Turbo-fan rotor. 3,070,284, 12–25–62, Cl. 230—116.
Kent, Howard. Method of making corrugated flexible wave guide. 3,029,508, 4–17–62, Cl. 29—534.
Kent Mfg. Corp.: *See*—
Batcheller, Kent J., and McDougall. 3,041,619.
Kent-Moore Organization, Inc.: *See*—
Bishop, Robert W. 3,052,101.
Breed, John W. 3,017,176.
Meador, Albert S., and Shrum. 3,055,211.
Kent, Nelson H.: *See*—
Morley, Frederick W. W., Kent, Hunter, and Wilkinson. 3,051,437.
Kent, Nelson H., and G. O. Eccles, to Rolls-Royce Ltd. Manufacture by extrusion of turbine engine blades. 3,039,-178, 6–19–62, Cl. 29—156.8.
Kent, Nelson H., and G. O. Eccles, to Rolls-Royce Ltd. Manufacture by extrusion of turbine engine blades. 3,044,153, 7–17–62, Cl. 29—156.8.
Kent, Nelson H., and T. Steel, to Rolls-Royce Ltd. Rotor for axial-flow fluid machine. 3,051,436, 8–28–62, Cl. 253—39.
Kent, R. O., Corp.: *See*—
Ness, James M. 3,051,966.
Kent, Richard F., and H. H. Schafer, to Washington Packaging Corp. Package wrapping and feeding mechanism. 3,046,715, 7–31–62, Cl. 53—231.
Kent, Richard P., and D. Neidlg, to Vend-O-Print, Inc. Dispensing apparatus. 3,062,406, 11–6–62, Cl. 221—88.
Kent, Samuel J. Nail-driving and clinching machine. 3,061,-837, 11–6–62, Cl. 1—68.
Kent, Sheldon E., to Hodag Chemical Corp. Prevention of scale formation evaporation of liquids. 3,061,478, 10–30–62, Cl. 127—61.
Kent, Stanley J.: *See*—
Muller, Hollis L., and Kent. 3,034,335.
Kent, Stephen D.: *See*—
Crane, Samuel P., and Kent. 3,022,063.
Crane, Samuel P., and Kent. 3,050,749.
Kent, William C., to Western Electric Co., Inc. Apparatus for bending terminals. 3,016,080, 1–9–62, Cl. 53—21.
Kent, William C., to Western Electric Co., Inc. Adjustable embossing punch and die. 3,060,845, 10–30–62, Cl. 101—28.
Kenton, Joseph R.: *See*—
Wadsworth, Francis T., and Kenton. 3,040,009.
Kentucky Electronics Inc.: *See*—
White, Rexford E. 3,054,568.
Kentucky Metal Products Co.: *See*—
Covert, James L. 3,028,481.
Kenworthy, Bowden B.: *See*—
Kenworthy, Kenneth, and B. B. 3,036,482.
Kenworthy, Kenneth, and B. B. Axial-impact type hand tool. 3,036,482, 5–29–62, Cl. 81—52.35.
Kenworthy, Lester A., to The Glidden Co. Low acid purified titanium solution and products therefrom. 3,025,135, 3–13–62, Cl. 23—87.
Kenworthy, Lester A., to The Glidden Co. Purification of water-insoluble solids by ion exchange. 3,063,807, 11–13–62, Cl. 23—202.
Kenworthy, Lester A., to The Glidden Co. Rutile seed. 3,063,068, 12–11–62, Cl. 23—202.
Kenworthy, Robert J.: *See*—
Bingham, George H., Jr., and Kenworthy. 3,025,545.
Goland, Leonard Gebhard, and Kenworthy. 3,027,948.
Kenyeres, Nicholas, and R. G. Anderson, to Canadian Westinghouse Co., Ltd. Panelboards. 3,054,934, 9–18–62, Cl. 317—119.
Kenyon, Allen S.: *See*—
Kern, Roland J., and Kenyon. 3,046,245.
Kern, Roland J., and Kenyon. 3,061,570.
Kenyon, Harold F., to Metropolitan-Vickers Electrical Co. Ltd. Liquid electrical connections between relatively rotating electrical conductors. 3,021,496, 2–13–62, Cl. 339—5.
Kenyon, Ted F.: *See*—
Catron, William M., and Kenyon. 3,066,458.
Kenyon, Theodore W., and E. H. Pallme, to Connecticut Valley Enterprises, Inc. Electrical relay. 3,036,176, 5–22–62, Cl. 200—104.
Kenyon, William S.: *See*—
De Fezzy, Albert, Hanley, Kenyon, and Peak. 3,021,826.
Kenzik, William V.: *See*—
Kellogg, George E., and Kenzik. 3,016,880.
Kenzik, William V., and W. J. Oakley, to General Motors Corp. Automatic brake adjuster. 3,050,157, 8–21–62, Cl. 188—79.5.
Keogh, Raymond J.: *See*—
Burr, Robert P., and Keogh. 3,023,334.
Burr, Robert P., and Keogh. 3,044,695.
Keohane, John S., Jr., to Brennan Laboratories, Inc. Metal spraying apparatus and method. 3,062,451, 11–6–62, Cl. 239—13.
Keough, Patricia T.: *See*—
Grayson, Martin, and Keough. 3,067,258.
Kepes, André, to Commissariat le l'Energie Atomique. Process for isolating isotope of alkali metal. 3,025,224, 3–13–62, Cl. 204—1.
Kepes, Andre, to Compagnie de Saint-Gobain. Mixing apparatus. 3,062,513, 11–6–62, Cl. 259—101.
Kepkay, Lesie L.: *See*—
Horne, Donald S., Ashton, and Kepkay. 3,049,026.
Kepler, Charles E.: *See*—
Ranard, Elliot D., and Kepler. 3,030,770.
Keplinger, Orin C., O. C. Elmer, and J. S. Duncan, to The General Tire & Rubber Co. Non-scorching polyurethane compositions and method of making same. 3,062,772, 11–6–62, Cl. 260—40.
Keranen, Alfred A. Movable jaw wrench. 3,044,335, 7–17–62, Cl. 81—91.
Kerb, Ulrich, and M. Schenck, to Schering AG. Process for the production of the 17β-formate of 17α-ethinyl-19-nor testosterone. 3,069,436, 12–18–62, Cl. 260—397.4.
Kerber, Stanley M., G. M. Randall, and R. E. Hovda, to North American Aviation, Inc. Resonant cavity type radio frequency converter. 3,025,395, 3–13–62, Cl. 250—20.
Kerber, William, to National Steel Corp. Casting apparatus. 3,052,934, 9–11–62, Cl. 22—76.
Kerel, Richard J.: *See*—
Libom, Karl H. 3,021,745.
Kerfoot, Raymond W. Front and rear view reflector unit for a vehicle. 3,033,083, 5–8–62, Cl. 88—70.
Kerhoas, Lucien Y. Machine for packaging under thermoplastic film. 3,016,667, 1–16–62, Cl. 53—182.
Kerkhoffs, Pieter L.: *See*—
Ottenheym, Johannes H., and Kerkhoffs. 3,048,580.
Kerkhoven, Rudolf E., and F. Dijkstra, to Shell Oil Co Asphalt-aggregate compositions. 3,062,672, 11–6–62, Cl. 106—281.
Kerley Engineering, Inc.: *See*—
Kerley, James J., Jr. 3,023,993.
Kerley, James J., Jr. 3,025,031.
Kerley, James J., Jr. 3,031,163.
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Kerley, James J., Jr. 3,044,759.
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Kerley, James J., Jr., Hartenstein, and Cecce. 3,037,728.
Kerley, James J., Jr., and Sheredos. 3,065,959.
Kerley, James J., Jr., to Kerley Engineering, Inc. Serially arranged vibration isolators with low natural frequency. 3,039,725, 6–19–62, Cl. 248—358.
Kerley, James J., Jr., to Kerley Engineering, Inc. Vibration isolator arrangement to reduce stress concentration of cable. 3,025,031, 3–13–62, Cl. 248—358.
Kerley, James J., Jr., to Kerley Engineering, Inc. Prestressed cable isolation system. 3,031,163, 4–24–62, Cl. 248—358.
Kerley, James J., Jr., to Kerley Engineering, Inc. Cable isolated floor and machine support mounts. 3,039,725, 6–19–62. Cl. 248—20.
Kerley, James J., Jr., to Kerley Engineering, Inc. Cable type vibration isolator with captivating elements. 3,044,-759, 7–17–62, Cl. 267—1.
Kerley, James J., Jr., to Kerley Engineering, Inc. Shock and vibration mounts of the cable support type. 3,057,593. 10–9–62, Cl. 248—358.
Kerley, James J., Jr., R. G. Hartenstein, and R. F. Cecce, said Kerley and Hartenstein assors. to Kerley Engineering Inc., said Cecce assor. to Litton Systems Inc. Vibration isolator mount. 3,037,728, 6–5–62, Cl. 248—18.
Kerley, James J., Jr., and Y. J. Sheredos, to Kerley Engineering, Inc. Shock and vibration isolator with saddle arrangement. 3,065,959, 11–27–62, Cl. 267—1.
Kerley, Robert V., and A. E. Felt, to Ethyl Corp. Gasoline fuel. 3,038,792, 6–12–62, Cl. 44—69.
Kermode, David W. Non-gyroscopic precision inclinometer. 3,059,343, 10–23–62, Cl. 33—215.

Kern, Dale B., and R. L. Conger, to United States of America, Navy. Radio-frequency coaxial-transmission phase shifter. 3,017,587, 1–16–62, Cl. 333—31.
Kern, Dale W., to Riegel Textile Corp. Process for the production of puffed surfaces on textile fabrics. 3,045,318, 7–24–62, Cl. 28—76.
Kern, Fred W., to Bethlehem Steel Co. Switch point guard rail. 3,026,074, 3–20–62, Cl. 246—441.
Kern, Fritz, to Ciba Ltd. Process for the recovery of niobium. 3,047,476, 7–31–62, Cl. 204—64.
Kern, George R., Jr., to Fairfax Mfg. Co., Inc. Fluid drill. 3,053,503, 9–11–62, Cl. 253—2.
Kern, Henry W., to E. E. Howe. Method of making fastening element designed for welding. 3,045,735, 7–24–62, Cl. 151—14.7.
Kern, Loyd R., to The Atlantic Refining Co. Method and composition for formation fracturing. 3,058,909, 10–16–62, Cl. 252—8.55.
Kern, Marvin G.: *See*—
Schwab, Emil A., Kern, and Haselhorst. 3,038,623.
Kern, Robert D., to Gener AC Corp. Electrical field excitation circuits for alternators. 3,042,850, 7–3–62, Cl. 322—27.
Kern, Roland J., to Monsanto Chemical Co. Process for preparing polystyrene and graft copolymers of polystyrene in the presence of an n-alkyl lithium catalyst. 3,031,432, 4–24–62, Cl. 260—45.5.
Kern, Roland J., and A. S. Kenyon, to Monsanto Chemical Co. Preparation of crystalline polystyrene solutions. 3,046,245, 7–24–62, Cl. 260—30.4.
Kern, Roland J., and A. S. Kenyon, to Monsanto Chemical Co. Preparation of crystalline polystyrene solutions. 3,061,570, 10–30–62, Cl. 260—30.4.
Kern, Walter P., to United-Carr Fastener Corp. Molding fastener. 3,034,615, 5–15–62, Cl. 189—88.
Kern, Walter P. Automatic control for programming sample changing in radiation detecting system. 3,038,078, 6–5–62, Cl. 250—106.
Kern, Walter P., to Baird-Atomic, Inc. Penetrative radiation collimator. 3,040,175, 6–19–62, Cl. 250—71.5.
Kern, Werner: *See*—
Behrends, Jurgen, Schweitzer, Kerner and Hopff. 3,020,-264.
Kern, Werner K., and F. E. Null. Explosive linear acceleration. 3,031,933, 5–1–62, Cl. 89—8.
Kern, Werner, R. Schulz, and H. Cherdron, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Dissolved copolymers of aqueous solutions of SO_2 containing acrolein and a member from the group consisting of acrylonitrile, methyl methacrylate, and vinyl acetate. 3,036,978, 5–29–62, Cl. 260—29.6.
Kernahan, Richard H., to Western Rivers Corp. Pelican hook for ratchet couplings. 3,050,800, 8–28–62, Cl. 24—69.
Kernchen, Günter: *See*—
Demmel, Anton, and Kernchen. 3,049,211.
Kerns, Fred R., to The Electric Storage Battery Co. Machine for cleaning a plurality of spaced stacked articles. 3,032,-795, 5–8–62, Cl. 15—77.
Kerns, Fred R., to The Electric Storage Battery Co. Battery separator positioning machine. 3,052,968, 9–11–62, Cl. 29—204.
Kerr, Bruce G., to Goring Kerr Ltd. Electrical indicating measuring or control apparatus and the like. 3,037,165, 5–29–62, Cl. 324—61.
Kerr, Charles E., to FMC Corp. Carton handling machine. 3,016,807, 1–16–62, Cl. 93—49.
Kerr, Elmer L.: *See*—
Vaughan, Arthur H., and Kerr. 3,068,586.
Kerr, Elmer L., F. T. Cope, and A. P. Pettit, to The Electric Furnace Co. Method and apparatus for metal structural panel construction. 3,053,969, 9–11–62, Cl. 219—85.
Kerr, Elmer L., and F. R. Mathews, to The Electric Furnace Co. Induction strip heating apparatus. 3,058,840, 10–16–62, Cl. 117—93.
Kerr, Fred S.: *See*—
Larges, Ernest R., Frank, and Kerr. 3,062,929.
Kerr, Fred S., to Holley Carburetor Co. Transistor ignition system. 3,020,904, 2–13–62, Cl. 123—179.
Kerr, Fred S., to Holley Carburetor Co. Electric speed governor. 3,049,110, 8–14–62, Cl. 123—102.
Kerr, Fred S., and L. H. Romanski, to Molley Carburetor Co. Automatic headlight selector. 3,021,449, 2–13–62, Cl. 315—79.
Kerr, Goring, Ltd.: *See*—
Kerr, Bruce G. 3,037,165.
Kerr, John L., to United States of America, Army. Circularly arrayed slot antenna. 3,032,762, 5–1–62, Cl. 343—771.
Kerr, Larry F.: *See*—
Patterson, William E., Terry, Beaty, Kerr, and Collins. 3,030,988.
Kerr, Maxwell A. Magnetic quarter-stripe sound tracks for 16 mm. film. 3,017,466, 1–16–62, Cl. 179—100.1.
Kerr-McGee Oil Industries Inc.: *See*—
Garwin, Leo. 3,053,751.
Goren, Mayer B., and Elkins. 3,041,286.
Hazen, Wayne C. 3,037,627.
Pickell, Marion W. 3,055,853.
Woodward, Eugene E. 3,036,015.
Kerr, Ralph L. Combination lubricator and actuator. 3,033,-225, 5–8–62, Cl. 137—246.13.
Kerr, Ralph O., and R. W. Etherington, Jr., to Petro-Tex Chemical Corp. Preparation of aldehydes by catalytic oxidation. 3,038,942, 6–12–62, Cl. 260—604.
Kerr, Ralph W., to Corn Products Co. Method of making dextrose using purified amyloglucosidase. 3,017,330, 1–16–62, Cl. 195—11.
Kerr, Ralph W., to Corn Products Co. Starch modification with polyborates. 3,022,184, 2–20–62, Cl. 106—210.
Kerr, Ralph W. Hydraulic diverter for reserve pressure cylinders. 3,036,809, 5–29–62, Cl. 251—77.
Kerr, Ralph W., and F. C. Cleveland, Jr., to Corn Products Co. Thickening agent and method of making the same. 3,021,222, 2–13–62, Cl. 99—139.
Kerr, Ralph W., and W. J. Katzbeck, to Corn Products Co. Process for preparing a mixed ester of starch. 3,061,604, 10–30–62, Cl. 260—233.5.
Kerr, Richard H.: *See*—
Glasgow, James S., and Kerr. 3,034,619.
Kerr, Robert E., and G. B. Saviers, to Westinghouse Electric Corp. Method and apparatus for metering slurry. 3,061,-198, 10–30–62, Cl. 239—4.
Kerr, Thomas C. Connection tool. 3,032,867, 5–8–62, Cl. 20—213.
Kerr, Wayne, Laboratories Ltd., The: *See*—
Calvert, Raymond. 3,048,775.
Kerrigan Iron Works Co.: *See*—
Daniels, Gordon E. 3,045,783.
Greulich, Gerald G. 3,024,712.
Kerrigan, James C., to Chrysler Corp. Windshield wiper. 3,048,872, 8–14–62, Cl. 15—250.36.
Kerris, Wolfram E.: *See*—
Clemens, John E., Johnstone, Kerris, and Wazelt. 3,059,-521.
Kerruish, Robert H.: *See*—
Woguis, John P., Kerruish, and Monk. 3,058,190.
Kerry, Thomas H., to Rolls-Royce Ltd. Housings for gas turbine engines. 3,031,155, 4–24–62, Cl. 244—12.
Kerry, Thomas H., to Rolls-Royce Ltd. Gas turbine engine. 3,055,615, 9–25–62, Cl. 244—15.
Kerry, Thomas H., to Rolls-Royce Ltd. Improved engine mounting. 3,057,582, 10–9–62, Cl. 244—56.
Kerry, Thomas H., and M. I. Taylor, to Rolls-Royce Ltd. Vertical lift engine for an aircraft. 3,030,051, 4–17–62, Cl. 244—23.
Kerry, Thomas H., P. A. Ward, and M. I. Taylor, to Rolls-Royce Ltd. Auxiliary air intakes for jet engines adapted for vertical take-off. 3,051,879, 10–23–62, Cl. 244—23.
Kerschner, Paul M., and A. I. Meyers, to Cities Service Research and Development Co. Polysiloxane esters of hydrogenated bisphenol A. 3,055,864, 9–25–62, Cl. 260—46.5.
Kershaw, John K., to Kershaw Mfg. Co., Inc. Railway ballast equipment. 3,019,536, 2–6–62, Cl. 37—104.
Kershaw, John K., to Kershaw Mfg. Co., Inc. Road and rail vehicle. 3,019,742, 2–6–62, Cl. 105—215.
Kershaw, John K. Hydraulic pneumatic driving tool. 3,049,097, 8–14–62, Cl. 121—23.
Kershaw Mfg. Co., Inc.: *See*—
Kershaw, John K. 3,019,536.
Kershaw, John K. 3,019,742.
Kershaw, William L.: *See*—
Geib, Ervin R., Cosby, and Kershaw. 3,023,923.
Kershner, Osborn A., to Lambert Brake Corp. Friction disc for brakes, clutches and the like. 3,048,250, 8–7–62, Cl. 192—107.
Kershner, Osborn A., to Lambert Brake Corp. Control valve. 3,050,344, 8–21–62, Cl. 303—54.
Kershner, Osborn A., and H. E. Olds, to Lambert Brake Corp. Apparatus for straightening discs. 3,028,906, 4–10–62, Cl. 153—102.
Kerst, Donald W., to General Dynamics Corp. Plasma containing device. 3,026,447, 3–20–62, Cl. 315—111.
Kerst, Herman: *See*—
Denman, Wayne L., and Kerst. 3,019,195.
Kerstein, Fred W. Amusement device. 3,041,070, 6–26–62, Cl. 272—33.
Kerstetter, Donald R., to Sylvania Electric Products Inc. High conductivity anode material. 3,052,015, 9–4–62, Cl. 29—195.
Kerstetter, Donald R., to Sylvania Electric Products Inc. Thermal emissivity device. 3,069,893, 12–25–62, Cl. 73—15.
Kerstetter, Donald R., and L. D. Schwender, to Sylvania Electric Products Inc. Frame structure for strap frame grids. 3,028,518, 4–3–62, Cl. 313—350.
Kerstetter, Harold A., W. Y. Hardeman, and E. E. Folkenroth, America, Atomic Energy Commission. Graphite impreg-694, 4–24–62, Cl. 29—33.
Kersting, Arno: *See*—
Reuschel, Konrad, and Kersting. 3,057,690.
Kersting, Arno, to Siemens-Schuckertwerke Aktiengesellschaft. Apparatus for producing hyperpure silicon for electronic purposes. 3,068,078, 12–11–62, Cl. 23—284.
Kerstukos, Albert R. Hooke, and R. C. Bollinger, to Westinghouse Electric Corp. Method and apparatus for optimalizing the operation of a system. 3,044,701, 7–17–62, Cl. 235—151.
Kertesz, Francois, and H. J. Buttram, to United States of America, Atomic Energy Commission. Graphite impregnation method. 3,031,342, 4–24–62, Cl. 117—169.
Kertz, Joseph J.: *See*—
MacArthur, Hamilton E., and Kertz. 3,052,212.

Kerver, John K.: *See*—
Graham, John W., and Kerver. 3,070,178.
Graham, John W., Kerver, and Prokop. 3,020,954.
Kerver, John K., and W. E. Holland, to Jersey Production Research Co. Method of increasing stability of consolidated sands. 3,055,425, 9–25–62, Cl. 166—29.
Kerver, John K., W. E. Holland, and J. W. Graham, to Jersey Production Research Co. Method for consolidating incompetent subsurface earth zones. 3,055,426, 9–25–62, Cl. 166—31.
Kerver, John K., and W. E. Holland, to Jersey Production Research Co. Stabilizing consolidated sands. 3,070,161, 12–23–62, Cl. 166—29.
Kerwin, James F.: *See*—
Blank, Benjamin, and Kerwin. 3,021,368.
Georgian, Vlasios, and Kerwin. 3,019,236.
Georgian, Vlasios, Kerwin, and Wolff. 3,019,235.
Kerwin, James F., to Smith Kline & French Laboratories. 18-dichlorosteroids and 18-hydroxyconanines made therefrom. 3,017,408, 1–16–62, Cl. 260—239.5.
Kerwin, James F., to Smith Kline & French Laboratories. 18-chloro-20-N-chloro-N-lower alkylamino steroid intermediates. 3,038,909, 6–12–62, Cl. 260—397.3.
Kerwin, James F., to Smith Kline & French Laboratories. Iodinated 4-(4'-alkoxyphenoxy) phenylpropionic acids. 3,038,934, 6–12–62, Cl. 260—519.
Kerwin, James F., to Smith Kline & French Laboratories. Dialkylaminoalkyl phenoxyphenyl alkanoates. 3,064,037, 11–13–62, Cl. 260—473.
Kerwin, James F., and M. E. Wolff, to Smith Kline & French Laboratories. 11,18 - epoxy - 20 - dialkylamino steroids. 3,033,861, 5–8–62, Cl. 260—239.55.
Kese, Arnold. Calendar for writing instruments. 3,019,541, 2–6–62, Cl. 40—335.
Keskinen, Allan R., to The Astatic Corp. Recording and reproducing head for magnetic tape. 3,047,674, 7–31–62, Cl. 179—100.2.
Keskkula, Henno: *See*—
Lee, Lieng-Huang, and Keskkula. 3,026,298.
Lee, Lieng-Huang, and Keskkula. 3,036,040.
Keskkula, Henno, and A. A. Pettis, to The Dow Chemical Co. Polystyrene stabilized with methyl methacrylate. 3,042,-654, 7–3–62, Cl. 260—45.85.
Keskkula, Henno, G. B. Sterling, and C. A. Leatherman, to The Dow Chemical Co. Compositions of alkenyl aromatic hydrocarbonacrylonitrile copolymers and butadienecarbonitrile-unsaturated ketone rubbers. 3,067,164, 12–4–62, Cl. 260—45.5.
Keslar, Leroy D., to Pittsburgh Plate Glass Co. Method of manufacturing glass-plastic laminates. 3,027,288, 3–27–62, Cl. 156—102.
Kesler, Carl C.: *See*—
Hjermstad, Erling T., and Kesler. 3,062,810.
Kesler, George H.: *See*—
Campbell, Ivor E., and Kesler. 3,062,615.
Kesler, George H., to Chilean Nitrate Sales Corp. Process and apparatus for the vapor deposition of metals. 3,049,-440, 8–14–62, Cl. 117—107.
Kesler, Martin L., J. A. Risberg, and A. Dziomba, to American Cyanamid Co. Granular form red oil soluble dye. 3,056,642, 10–2–62, Cl. 8—3.
Kesling, Harold D. Buccal sheath. 3,055,111, 9–25–62, Cl. 32—14.
Kesling, Keith K., to General Motors Corp. Heated refrigerator door seal. 3,038,319, 6–12–62, Cl. 62—275.
Kesling, Peter C. Buccal attachment. 3,055,110, 9–25–62, Cl. 32—14.
Kesner, Richard N., and H. B. Hawes, to St. Lawrence Mfg. Co., Inc. Collapsible ice skate scabbard. 3,015,492, 1–2–62, Cl. 280—11.38.
Kessel, Bernard B., to Chrysler Corp. Rocker chamber cover and gasket. 3,063,439, 11–13–62, Cl. 123—195.
Kessel, Earl W.: *See*—
Buehrer, Arthur G., and Kessel. 3,038,262.
Kessel, John. Circular faceplate for door latches. 3,055,691, 9–25–62, Cl. 292—337.
Kesselring, Donald J.: *See*—
Baker, Donald H., and Kesselring. 3,020,980.
Kesselring, Kenneth A., to United States of America, Atomic Energy Commission. Neutronic reactors and control means therefor. 3,049,483, 8–14–62, Cl. 204—193.2.
Kessinger, Corbie. Waste receptacle with ejector means. 3,016,163, 1–9–62, Cl. 220—93.
Kessler, Carl E., to All Products Co. Panel fence. 3,069,142, 12–18–62, Cl. 256—34.
Kessler, Claus: *See*—
Anke, Klaus, Kessler, and Ströle. 3,044,704.
Kessler, Friedrich. Spring loaded reel. 3,049,317, 8–14–62, Cl. 242—107.3.
Kessler, Gerald. Endless conveyer means for deformable articles. 3,015,427, 1–2–62, Cl. 226—172.
Kessler, Gerald, to Technicon Instruments Corp. Automatic analysis with fluid segmentation. 3,047,367, 7–31–62, Cl. 23—230.
Kessler, Hans. Tub cleaning implement. 3,039,126, 6–19–62, Cl. 15—244.
Kessler, Harold D., and D. R. Mitchell, to Titanium Metals Corp. of America. Welding process. 3,038,988, 6–12–62, Cl. 219—91.
Kessler, Harry H., and W. H. Moore. Cast iron. 3,035,911, 5–22–62, Cl. 75—130.
Kessler, Harry I. Teaching device. 3,034,229, 5–15–62, Cl. 35—39.
Kessler, Jack J., to Uarco, Inc. Burster imprinter. 3,070,009, 12–25–62, Cl. 101—227.
Kessler, Jacob C. F., to American Enka Corp. Manufacture of pigmented thermoplastic material. 3,035,003, 5–15–62, Cl. 260—28.5.
Kessler, Jacob C. F., and H. R. Spreeuwers, to N.V. Onderzoekingsinstituut Research. Process of extruding composition comprising a fiber forming linear condensation product and a thickening agent. 3,029,226, 4–10–62, Cl. 260—77.5.
Kessler, Jacob C. F., and H. R. Spreeuwers, to Onderzoekingsinstituut Research, N.V. Process for extruding a fiber forming composition comprising a linear resinous condensate and a thickening agent. 3,037,956, 6–5–62, Cl. 260—33.8.
Kessler, Joseph S., to G & H Products Corp. Plug for plug valve. 3,052,445, 9–4–62, Cl. 251—309.
Kessler, Karl G., and W. G. Schweitzer, Jr., to United States of America, Commerce. Very narrow-pass filter using zeeman-split absorption lines. 3,046,473, 7–24–62, Cl. 324—.5.
Kessler, Kenneth Q.: *See*—
Kessler, William D. E., and Kessler. 3,050,927.
Kessler, Leland L., to Westinghouse Electric Corp. Automatic paralleling system. 3,069,555, 12–18–62, Cl. 307—87.
Kessler, Milton. Method of erecting pre-stressed building construction. 3,057,119, 10–9–62, Cl. 50—531.
Kessler, Milton. Apparatus for raising sunken ships. 3,057,-694, 10–9–62, Cl. 23—252.
Kessler, Milton. Telephone booth. 3,063,496, 11–13–62, Cl. 160—196.
Kessler, Milton. Panel fastening clip. 3,063,524, 11–13–62, Cl. 189—41.
Kessler, Milton. Self-venting pressure-release sealing cap. 3,067,900, 12–11–62, Cl. 215—56.
Kessler, Milton. Bowling alley return gutter. 3,069,165, 12–18–62, Cl. 273—47.
Kessler, Richard P., to West Virginia Pulp and Paper Co. Method and apparatus for making a non-gussetted bag with satchel bottom adapted to provide an open container with square corners. 3,025,768, 3–20–62, Cl. 93—35.
Kessler, Theodore P. Shipping package for roll goods. 3,039,602, 6–19–62, Cl. 206—51.
Kessler, Vernon R.: *See*—
Hopkinson, Harold H., Irwin, and Kessler. 3,020,820.
Hopkinson, Harold H., Irwin, and Kessler. 3,020,822.
Kestel, Frederick J. Seed-drop mechanism for planter. 3,063,599, 11–13–62, Cl. 222—177.
Kestell, Thomas A., and G. F. Ward, to United Shoe Machinery Corp. Shoe Stitch Drive for shoe sewing machines. 3,062,162, 11–6–62, Cl. 112—38.
Kestenbaum, Irving: *See*—
Moser, Henry W., Emerson, and Kesterbaum. 3,052,422.
Kestenbaum, William W., to Sperry Rand Corp. Frequency modulation distortion cancellation system. 3,021,487, 2–13–62, Cl. 328—162.
Kestenman Bros. Mfg. Co.: *See*—
Minutoli, Anthony L. 3,036,353.
Kester, Fred J., to Densco, Inc. Illuminating attachment for dental handpieces. 3,023,306, 2–27–62, Cl. 240—2.
Kester, Ralph C. Drum holder. 3,021,744, 2–20–62, Cl. 84—421.
Kester, Robert C., to General Motors Corp. Dynamoelectric machine brushholder means. 3,022,434, 2–20–62, Cl. 310—246.
Kestner, Matthew W., to The American Ship Building Co. Clamping device. 3,039,805, 6–19–62, Cl. 292—256.5.
Keston, Albert S. Polarimetric apparatus. 3,016,789, 1–16–62, Cl. 88—14.
Keszler, Ernest. Inside vernier measuring device. 3,041,731, 7–3–62. Cl. 33—143.
Ketchledge, Raymond W., to Bell Telephone Laboratories, Inc. Automatic gain control system. 3,027,518, 3–27–62, Cl. 330—24.
Ketchpel, Paul A., Jr.: *See*—
Haskell, Philip R., Evans, Connor, and Ketchpel. 3,024,-530.
Haskell, Philip R., Evans, Ketchpel, and Connor. 3,024,-464.
Haskell, Philip R., Evans, Ketchpel, and Connor. 3,024-531.
Haskell, Philip R., Evans, Ketchpel, and Connor. 3,024,-666.
Haskell, Philip R., Evans, Ketchpel, and Connor. 3,024,-749.
Ketchum, Oakley H.: *See*—
Brooks, Grenville P., and Ketchum. 3,025,632.
Ketler, Albert E., Jr., to United States of America, Navy. Engine lubrication system. 3,027,971, 4–3–62. Cl. 184—6.
Ketner, William H., and J. R. Neale, Jr. Horseshoes. 3,050,-133, 8–21–62, Cl. 168—4.
Ketterer, Stanley J.: *See*—
Graham, Richard P., Herron, and Ketterer. 3,051,110.
Hurme, Herbert J., Ketterer, and Reed. 3,029,758.
Ketterer, Stanley J., to The Griffith Co. Rotary duplex pump. 3,050,013, 8–21–62, Cl. 103—149.
Ketterer, Stanley J., to The Singer Mfg. Co. Tension release mechanism for sewing machines. 3,051,108, 8–28–62, Cl. 112—181.

Ketterer, Stanley J., to The Singer Mfg. Co. Lubrication system for sewing machine loop taker. 3,060,877, 10–30–62, Cl. 112—256.

Ketterer, Stanley J., to The Singer Mfg. Co. Starting thread control mechanism. 3,065,718, 11–27–62, Cl. 112—181.

Ketterer, Stanley J., W. J. Edwards, and M. F. Ivanko, to The Singer Mfg. Co. Lock stitch sewing machine. 3,038,429, 6–12–62, Cl. 112—181.

Ketterer, Stanley J., and W. J. Edwards, to The Singer Mfg. Co. Stitch-forming mechanism for lock stitch sewing machines. 3,063,392, 11–13–62, Cl. 112—181.

Ketterer, Stanley J., and D. G. Smith, to The Singer Mfg. Co. Sewing machine lubrication. 3,068,820, 12–18–62, Cl. 112—256.

Kettler, Clarence J., R. L. Elliott, and C. W. Schoendube, to General Electric Co. Control system for voltage regulator. 3,054,943, 9–18–62, Cl. 323—66.

Kettler, Wilfred A. Drag for fishing reel. 3,041,003, 6–26–62, Cl. 242—84.5.

Kettlety, Robert W.: *See*—
Jones, Jack D., and Kettlety. 3,036,765.

Kettmann, Hans W.: *See*—
Snow, Harold A., and Kettmann. 3,048,796.

Kettmich, Ernst W., to Teletype Corp. Tape perforator. 3,024,971, 3–13–62, Cl. 234—111.

Keuffel & Esser Co.: *See*—
Baker, Allister L. 3,023,503.
Rusch, Alfred E. 3,041,004.
Kosar, Jaromir. 3,038,803.
Werner, Georg, and Von Poser. 3,028,240.

Keulemans Gustaf M., to General Bronze Corp. Awning window. 3,058,175, 10–16–62, Cl. 20—42.

Keunecke, Emil, and O. Stahnke, to Leybold Hochvakuum-Anlagen G.m.b.H. Apparatus for vacuum fractional distillation. 3,060,106, 10–23–62, Cl. 202—205.

Kevane, Clement J.: *See*—
Taylor, William E., and Kevane. 3,018,539.

Kevelin, Bruce E.: *See*—
Beck, Ronald D., and Kevelin. 3,047,451.

Keyes, Henry L, to Diamond Crystal Salt Co. Liquid dispensing apparatus. 3,065,775, 11–27–62, Cl. 141—131.

Kew Standard Corp.: *See*—
Yost, Clyde E. 3,029,811.

Kewanee Machinery & Conveyor Co.: *See*—
Michell, Russell L. 3,059,754.

Kewaunee Mfg. Co.: *See*—
Saunders, George T. 3,035,315.

Key Accounts, Inc.: *See*—
Kanlan, Ira. 3,025,994.

Key, Milford M. Vehicle mounted edgers. 3,019,844, 2–6–62, Cl. 172—15.

Key, Roy R. Dough-twisting machine. 3,027,852, 4–3–62, Cl. 107—8.

Keydel, Kurt R. Deodorizer container. 3,016,199, 1–9–62, Cl. 239—55.

Keyes, Andy A. Cotton topper. 3,017,732, 1–23–62, Cl. 56—25.4.

Keyes, Frank P.: *See*—
Placco, Oscar F., Stone, and Keyes. 3,019,503.

Keys, Robert L.: *See*—
Graham, Harry C. 3,021,772.

Keyser, Carl A. Ice melting and melt collecting device. 3,067,313, 12–4–62, Cl. 219—21.

Keyser, Johann J. Brake for spinning and twisting spindles. 3,019,589, 2–6–62, Cl. 57—88.

Keyser, Johann J. Spinning or twisting spindle. 3,028,721, 4–10–62, Cl. 57—132.

Keyser, Johann J. Creel for spinning machines. 3,055,610, 9–25–62, Cl. 242—131.

Keyser, Peter E. Smokers' pipes. 3,044,472, 7–17–62, Cl. 131—225.

Keyser, Harold C., to Amsted Industries Inc. Rail wheel. 3,038,755 6–12–62, Cl. 295—21.

Keystone Camera Co., Inc.: *See*—
Kaminski, Henry J. 3,043 205.

Keystone Chemurgic Corp.: *See*—
Schenck, Ernest T. E. 3,047,602.

Keystone Paper Box Co.: *See*—
Kagen, Kenneth S., and Ness. 3,031,122.

Kevt, Ferris G., and M. D. Peters, to Minneapolis-Honeywell Regulator Co. Fluid motor control apparatus. 3,027,878, 4–3–62, Cl. 121—41.

Keyworth, James C., to The Bendix Corp. Pendulous bobbin holder. 3,030,048, 4–17–62, Cl. 242—130.2.

Kezeli, Edgar J.: *See*—
Dale, Robert F., Backus and Kezeli. 3,020,208.

Keznickl, Eduard, to A. Handler and K. Vockenhuber. Camera, more particularly substandard camera. 3,017,815, 1–23–62. Cl. 95—44.

Keznickl, Eduard, to Ing. A. Handler, and Ing. K. Vockenhuber. Camera, more particularly, motion picture camera. 3,024,714, 3–13–62, Cl. 95—44.

Keznickl, Eduard, to A. Handler, and K. Vockenhuber. Acoustic indicator for motion picture cameras. 3,032,002, 5–1–62, Cl. 116—114.

Keznickl, Eduard, to A. Handler, and K. Vockenhuber. Adjusting device for an objective. 3,059,534, 10–23–62, Cl. 88—57.

Khalifa, Mohamed M. Testing circuit for circuit breakers. 3,021,476, 2–13–62, Cl. 324—28.

Khalil, Muhammad. Method and means for the installation of rail track. 3,018,967, 1–30–62, Cl. 238—349.

Khan, Joseph A. Gas operated stapler. 3,049,712, 8–21–62, Cl. 1—44.4.

Khanbegian, Harry N.: *See*—
Crosson, Jean H., and Khanbegian. 3,015,104.

Khanna, Shyam M., and M. C. Vosburgh, to International Telephone and Telegraph Corp. Radar mapping simulator. 3,028,684, 4–10–62, Cl. 35—10.4.

Khattar, Ange E.: *See*—
Khattar, Ferdinand E., J. E., and A. E. 3,046,626.

Khattar, Ferdinand E., J. E. and A. E. Self-closing self-locking safety pin. 3,046,626, 7–31–62, Cl. 24—158.

Khattar, Jean E.: *See*—
Khattar, Ferdinand E., J. E., and A. E. 3,046,626.

Khawam, Antoine, to Allied Chemical Corp. Cellular polyurethane and process of preparing same. 3,029,208, 4–10–62, Cl. 260—2.5.

Khawam, Antoine, to Allied Chemical Corp. Polyetherurethane compositions modified with polymethylol phenols. 3,063,964, 11–13–62, Cl. 260—47.

Khelghatian, Haber M.: *See*—
Thomas, Charles L., Stuart, and Khelghatian. 3,048,543.

Khol, Frantisek. X-ray apparatus for determination of internal stresses in materials. 3,030,507, 4–17–62, Cl. 250—51.5.

Khouri, Alfred S., to Globe-Union Inc. Plug-in electronic circuit units and mounting panels. 3,059,152, 10–16–62, Cl. 317—101.

Khu, Eric B. C., to Westinghouse Electric Corp. Frequency shift oscillator. 3,054,971, 9–18–62, Cl. 331—108.

Kibbey, Hal P.: *See*—
Siggelkow, Evan C. 3,036,791.

Kibbey, Harry S., to The Cincinnati Milling Machine Co. Abrasive article. 3,030,198, 4–17–62, Cl. 51—298.

Kibelt, Robert E., to North American Aviation, Inc. Aircraft hydraulic system. 3,026,678, 3–27–62, Cl. 60—52.

Kibinger, Fritz, and H. Eder; said Eder assor. to said Kibinger. Hop picker. 3,045,679, 7–24–62, Cl. 130—30.

Kibler, Charles J., A. Bell, and J. G. Smith, to Eastman Kodak Co. Linear polyesters of 1,4-cyclohexanedimethanol and hydroxycarboxylic acids. 3,033,822, 5–8–62, Cl. 260—47.

Kibler, Charles J., A. Bell, and J. G. Smith, to Eastman Kodak Co. Linear polyesters of 1,4-cyclohexanedimethanol and amino-carboxylic acids. 3,033,826, 5–8–62, Cl. 260—76.

Kibler, Charles J., A. Bell, and J. G. Smith, to Eastman Kodak Co. Linear polyesters of 1,4-cyclohexanedimethanol and aminoalcohols. 3,033 827. 5–8–62. Cl. 260—77.

Kibler, Charles J., A. Bell, and J. G. Smith, to Eastman Kodak Co. Low molecular weight polyesters of 1,4-cyclohexanedimethanol and polyvinyl chloride plasticized therewith. 3,049,506. 8–14–62, Cl. 260—45.4.

Kibler, Frederick, and H. Z. Shapiro, to Spreading Machine Exchange, Inc. Automatic cloth-spreading machine. 3,051,473, 8–28–62, Cl. 270—31.

Kibler, Lyndon B., to Bell Telephone Laboratories, Inc. Capacitively loaded waveguide. 3,050,702, 8–21–62, Cl. 333—98.

Kibler, Richard W., to The Firestone Tire & Rubber Co. Rubber antioxidant. 3,024,217, 3–6–62, Cl. 260—45.8.

Kibler, Richard W., to The Firestone Tire & Rubber Co. Mixed sulfides as flex-cracking innibitors. 3,057,819, 10–9–62. Cl. 260—45.9.

Kibler, Richard W., to The Firestone Tire & Rubber Co. Reaction product of sulfur dichloride substituted diamines and a quinoline and a composition of said product and rubber. 3,057,834, 10–9–62, Cl. 260—800.

Kibler, Willis L.: *See*—
Mandy, Robert R., and Kibler. 3 055,493.

Kichline, Thomas P., and J. L. Vetter, to Monsanto Chemical Co. Chemically leavened baking composition and method for producing the same. 3,052,549, 9–4–62, Cl. 99—95.

Kickuth, Reinhold: *See*—
Rochus, Walter, and Kickuth. 3,022,659.

Kidd, Alexander C.: *See*—
Marryatt, Earl A. 3,043.399.

Kidd, Robb, Flashlight holder mounted on a hard hat. 3,069 539, 12–18–62. Cl. 240—60.

Kidd, Rollo J. Combination package and dispenser. 3,066,796, 12–4–62, Cl. 206—65.

Kidde, Gustave E., to Kidde Process Corp. Process for the production of silica gel and cracking catalysts. 3,039,974, 6–19–62. Cl. 252—451.

Kidde Mfg. Co., Inc.: *See*—
Werry, John A. 3,049,266.

Kidde Process Corp.: *See*—
Kidde, Gustave E. 3,039,974.

Kidde Textile Machinery Corp.: *See*—
Noe, Harold C. 3,058,871.
Noe, Harold C. 3 050,972.
Noe, Harold C. 3,063,123.

Kidde, Walter, & Co. Inc.: *See*—
Bagno, Samuel M. 3,022,496.
Bagno, Samuel M., and Fasal. 3 018,311.
Bagno, Samuel M., and Levy. 3,029,420.

Kidde, Walter, Co. Ltd., The: *See*—
Marsh, John O., and Pobler. 3,056,540.
Soldy, Alexander R., and Silverstone. 3,048,303.
Wilson, Paul T. 3,015,414.
Young, David H. 3,045,691.

Kidder, Marshall J., to Remington Arms Co., Inc. Shot shell wad. 3,022,734, 2–27–62, Cl. 102—95.

Kidder Press Co., Inc.: *See*—
Willard, Robert P. 3,048,345.
Kidger, David P., to Swift & Co. Shortening emulsifier and method for preparing the same. 3,042,530, 7-3-62, Cl. 99—118.
Kidwell, Alfred S.: *See*—
Moffitt, John A., Jr., and Kidwell. 3,020,185.
Kidwell, Gaylord B. Anti-locking device for refrigerators. 3,026,825, 3-27-62, Cl. 109—63.5.
Kidwell, Jay F.: *See*—
Fouse, Frederick Z., and Kidwell. 3,067,872.
Kiechel, Fred C.: *See*—
George, Warren E., and Kiechel. 3,054,198.
George, Warren E., Kiechel, and McInich. 3,057,088.
Kiechel, Fred C., and R. Straw, to Auburn Machine Works, Inc. Auger arrangement for trenching machine. 3,057,089, 10-9-62, Cl. 37—90.
Kiefer, Edward J., Sr. Parts transfer mechanism. 3,036,692, 5-29-62, Cl. 198—21.
Kiefer, Harry J., Jr., to The Glidden Co. Coated metal articles and coating compositions therefor. 3,043,705, 7-10-62, Cl. 106—287.
Kiefer, Jacob C.: *See*—
Kenney, Mahlon W., and Kiefer. 3,034,792.
Kiefer, John E.: *See*—
Touey, George P., and Kiefer. 3,033,212.
Kiefer, John E., to Eastman Kodak Co. Method of preparing heat stable cellulose acetate sulfates. 3,057,852, 10-9-62, Cl. 260—215.
Kiefer, John E., and G. P. Touey, to Eastman Kodak Co. Cellulose acetate spinning solutions and process of spinning fine denier filaments. 3,033,698, 5-8-62, Cl. 106—196.
Kiefer, John E., and G. P. Touey, to Eastman Kodak Co. Spinning solution containing an aluminum complex. 3,038,780, 6-12-62, Cl. 18—54.
Kiefer, John E., and G. P. Touey, to Eastman Kodak Co. Cellulose acetate spinning solutions containing zirconium additives. 3,068,063, 12-11-62, Cl. 18—54.
Kiefer, Julius E. Smoking products and methods of producing same. 3 034,931, 5-15-62, Cl. 131—2.
Kiefer, Karl, Machine Co., The: *See*—
Fechehelmer, Paul R., Jacobs, and Harlan. 3,037,536.
Kiefer, Paul J., Jr.: *See*—
Gams, Theodore C., and Kiefer. 3,044,725.
Kieferle, Fritz: *See*—
Scholz, Hellmut, and Kieferle. 3,037,007.
Kieffer, Joseph D., III, and F. R. J. Duhamel, to Moto-Mower, Inc. Lawn mower. 3,047,085, 7-31-62, Cl. 180—70.
Kieffer, Richard, and K. Sedlatschek, to Schwarzkopf Development Corp. Radiation shield structures and their production. 3,039,000, 6-12-62, Cl. 250—108.
Kieffer, Thomas P. Packing pad. 3,063,885, 11-13-62, Cl. 154—53.5.
Kiehl, Arthur H., to The F. C. Russell Co. Metal window construction. 3,034,182, 5-15-62, Cl. 20—11.
Kiehn, Robert M., L. D. P. King, R. E. Peterson, and E. O. Swickard, Jr., to United States of America, Atomic Energy Commission. Molten plutonium fueled fast breeder reactor. 3 041 263, 6-26-62, Cl. 204—193.2.
Kiekens-Wervelwind-Holland (Kiekens-Whirlwind-Holland) KWH N.V.: *See*—
Bruinsma, Josephus F. D. 3,022,013.
Kiekhaefer Corp.: *See*—
Kiekhaefer, Elmer C. 3,029,769.
Kiekhaefer, Elmer C. 3,046,930.
Kiekhaefer, Elmer C. 3,052,087.
Kiekhaefer, Elmer C. 3,052,225.
Kiekhaefer, Elmer C. 3,062,173.
Kiekhaefer, Elmer C. 3,066,639.
Kiekhaefer, Elmer C., and Strang. 3,052,086.
Post, Lloyd P., and Shanahan. 3,020 707.
Kiekhaefer, Elmer C., to Kiekhaefer Corp. Adjustable exhaust snout for outboard motors. 3,029,769, 4-17-62, Cl. 115—18.
Kiekhaefer, Elmer C., to Kiekhaefer Corp. Water cooled power head mounting for outboard motors. 3,052,087, 9-4-62, Cl. 60—31.
Kiekhaefer, Elmer C., to Kiekhaefer Corp. Magneto ventilation system. 3,052,225, 9-4-62, Cl. 123—41.31.
Kiekhaefer, Elmer C., to Kiekhaefer Corp. Mounting for outboard motors. 3,062,173, 11-6-62, Cl. 115—18.
Kiekhaefer, Elmer C., to Kiekhaefer Corp. Outboard motor driven hydroplaning boat with dorsal fin plenum chamber. 3,066,639, 12-4-62, Cl. 115—17.
Kiekhaefer, Elmer C., and C. D. Strang, to Kiekhaefer Corp. Tuned exhaust for outboard motors. 3,052,086, 9-4-62, Cl. 60—31.
Kielar, Andrew A., to International Harvester Co. Method of removing surface defects in ingots. 3,024,528, 3-13-62, Cl. 29—526.4.
Kieler Howaldtswerke A.G.: *See*—
Meesen, Heinrich. 3,067,713.
Kielhorn, Heinz. Variable-speed opening and closing device. 3,043,584, 7-10-62, Cl. 268—53.
Kielman, Fred S., Jr., to Sperry-Sun Well Surveying Co. Fluid pressure responsive inclinometer. 3,016,621, 1-16-62, Cl. 33—205.
Kielsmeier, Elwood W., and W. B. Gara, to Oscar Mayer & Co., Inc. Preparation and composition control of sausage materials. 3,050,399, 8-21-62, Cl. 99—109.
Kienel Joseph E. Pneumatic apparatus for turning and stacking hosiery. 3,044,669, 7-17-62, Cl. 223—43.
Kiengle-Apparate G.m.b.H.: *See*—
Kassel, Martin. 3,062,445.
Kittel, Hermann, and Schellig. 3,066,866.
Klevers, Ernst. 3,053,173.
Kienhöfer, Franz: *See*—
Schlack, Paül, and Kienhöfer. 3,036,875.
Kienhofer, Klaus, to Wilhelm Sihn, Jr., K.G. Elastically yielding conveying means for telescoping antennae. 3,017,780, 1-23-62, Cl. 74—95.
Kienle, Robert N., and D. T. Szura, to United States Rubber Co. Epoxy resins as adhesives for bonding polyurethane to metal. 3,042,545, 7-3-62, Cl. 117—75.
Kienlen, Berthiol J., and N. G. Hayward, to Cooke Engineering Co. Shielded electrical switch. 3,036,169, 5-22-62, Cl. 200—51.1.
Kienzle Apparate G.m.b.H., Firma: *See*—
Haupt, Wilhelm, Kelch, and Straub. 3,031,103.
Maier, Lorenz. 3,034,426.
Martens, Gunter. 3,061,066.
Riegger, Hubert. 3,030,804.
Vögtlin, Karl. 3,035,267.
Vogtlin, Karl, and Helmschrott. 3,044,307.
Vögtlin, Karl, and Rösch. 3,016,278.
Kieras, Joseph A., to The Atlantic Refining Co. Process for the preparation of position isomers of C_{18} to C_{36} monochloro straight-chain paraffins. 3,070,636, 12-25-62, Cl. 260—660.
Kierbow, Forrest H. Antiskid chain and attaching means therefor. 3,024,826, 3-13-62, Cl. 152—233.
Kierspe, Raymond L., and J. A. Stokke, to General Electric Co. Seal and switch arrangement for sump pumps and the like. 3,062,939, 11-6-62, Cl. 200—168.
Kiersted, Wynkoop, Jr.: *See*—
Gross, Howard H., and Kiersted. 3,015,545.
Kiersted, Wynkoop, Jr., to Texaco Development Corp. Solvent dewaxing. 3,038,854, 6-12-62, Cl. 208—33.
Kiesel, Kenneth A., to Westinghouse Electric Corp. Switching circuit. 3,046,451, 7-24-62, Cl. 317—11.
Kieser, Robert J., to United States of America, Navy. Hydrostatic pressure transducer. 3,054,982, 9-18-62, Cl. 340—10.
Kieserling, Th., & Albrecht, Firma: *See*—
Hölzer, Carl. 3,030,878.
Hölzer, Carl. 3,038,361.
Kiesewetter, Alfred: *See*—
Zerwreck, Werner, Bulian, Kunze, and Kiesewetter. 3,020,953.
Kiesow, Lothar: *See*—
Fleckenstein, Hans, Sieber, and Kiesow. 3,022,969.
Kiesskalt, Siegfried, H. H. Hulsen, and E. Otters, to Siebtechnik G.m.b.H. Oscillating centrifuge. 3,069,016, 12-18-62, Cl. 210—370.
Kiessling, Rudolf H., to Square D Co. Control mechanism. 3,045,503, 7-24-62, Cl. 74—395.
Kiessling, Rudolf H., to Square D Co. Overtravel and snap-back control device for limit switch arms. 3,055,226, 9-25-62, Cl. 74—96.
Kiester, George S.: *See*—
Clark, Samuel K., and Kiester. 3,032,231.
Kietz, Hans. Shock exciting device for transducers. 3,034,095, 5-8-62, Cl. 340—3.
Kietz, Hans, and W. Kunze. Echo sounding system. 3,017,606, 1-16-62, Cl. 340—3.
Kievens, James L.: *See*—
Chase, Walter M., Gustafson, Hall, Kievens, Campbell, and Porciuncula. 3,031,615.
Kiff, Ben W.: *See*—
Guest, Howard R., Adams, and Kiff. 3,023,222.
Guest, Howard R., and Kiff. 3,025,306.
Guest, Howard R., Kiff, and Halstead. 3,022,273.
Kihlberg, Josef: *See*—
Dietrich, Gerhard. 3,063,330.
Kihlgren, Theodore E., and L. M. Petryck, to The International Nickel Co., Inc. Malleable-cored hard-surfacing welding electrode. 3,029,165, 4-10-62, Cl. 117—206.
Kihm, Hans: *See*—
Schauer, Siegfried, and Kihm. 3,061,208.
Kiilunen, Matt. Welding device. 3,046,387, 7-24-62, Cl. 219—130.
Kiker, Charles W., Jr., 1/10 to Gadget-of-the-Month Club, Inc. Pedally operable boat propulsion apparatus. 3,032,001, 5-1-62, Cl. 115—25.
Kikuchi, Yoshimitsu. Method of manufacturing ferrite magnetostriction vibrators. 3,033,792, 5-8-62, Cl. 252—62.5.
Kilbourne, James, to The Jeffrey Galion Mfg. Co. Shaft structure. 3,049,221, 8-14-62, Cl. 198—203.
Kilburn, Tom, and D. B. G. Edwards, to National Research Development Corp. Adding/subtracting circuits for digital electronic computers. 3,053,452, 9-11-62, Cl. 235—175.
Kilby, Jack S., to Globe-Union Inc. Modular electrical unit. 3,052,822, 9-4-62, Cl. 317—101.
Kilby, Jack S., and E. J. Williamsen, to Globe-Union Inc. Method of making porous metal bodies. 3,069,261, 12-18-62, Cl. 75—226.
Kilby, William, and W. A. S. White, to Imperial Chemical Industries Ltd. Desizing process. 3,019,140, 1-30-62, Cl. 134—30.
Kilchmann, Franz: *See*—
Pudelko, Richard, Huber, and Kilchmann. 3,043,501.
Kile, Stephen L., and A. M. O'Quinn, to Baso Inc. Gas burner. 3,048,216, 8-7-62, Cl. 158—113.

Kiley, Harry M.: *See*—
Brandes, Paul H., and Kiley. 3,035,559.
Kiley, James A., Co.: *See*—
Kiley, John T. 3,058,607.
Kiley, John T., to J. A. Kiley Co. Ladder racks. 3,058,607, 10–16–62, Cl. 214—450.
Kilham, Charles O., to United Shoe Machinery Corp. Fluid applying machines. 3,018,756, 1–30–62, Cl. 118—226.
Kilham, Peter, to Maclodyne Corp. Apparatus for bending and forming tubing, rods, wires and the like. 3,016,943, 1–16–62, Cl. 153—40.
Kilian, Georg: *See*—
Thum, Rudolf, Kilian, and Ramsauer. 3,037,325.
Kilian, Joseph J., to E. I. du Pont de Nemours and Co. High bulk textile fibers. 3,050,821, 8–28–62, Cl. 28—82.
Kiliam, Oliver P., Jr. Table construction. 3,059,779, 10–23–62, Cl. 211—137.
Killebrew Engineering Corp.: *See*—
Killebrew, Joseph B. 3,053,516.
Killebrew, Joseph B., to Killebrew Engineering Corp. Heating equipment. 3,053,516, 9–11–62, Cl. 257—313.
Killey Robert F.: *See*—
Welch, Donald H., McKenzie and Killey. 3,017,398.
Killian, George W., to General Dynamics Corp. Inward dialing to private branch exchange. 3,041,406, 6–26–62, Cl. 179—18.
Killian, Henry R., to Pratt, Henry, Co. Valve operator. 3,043,160, 7–10–62, Cl. 74—509.
Killian, Henry R., to Henry Pratt Co. Molded in place rubber seat butterfly valve. 3,050,781, 8–28–62, Cl. 18—36.
Killion, John F., to FMC Corp. Laminated paper board carton. 3,040,959, 6–26–62, Cl. 229—37.
Killmer, Earl C. Apparatus for packing shrub roots. 3,069,-825, 12–18–62, Cl. 53—215.
Kilman, Robert M. Tilt panel hoist device. 3,058,602, 10–16–62, Cl. 214—1.
Kilmer, Eugene D.: *See*—
Steiner, Rudolf. 3,020,425.
Kilminster, Arthur R., to Hunter-Penrose Ltd. Photographic colour reproduction apparatus. 3,019,703, 2–6–62, Cl. 88—24.
Kilminster, Arthur R., to Hunter-Penrose Ltd. Photographic colour reproduction apparatus. 3,041,932, 7–3–62, Cl. 88—24.
Kilness, Luther E. Ratchet mechanism. 3,044,591, 7–17–62 Cl. 192—43.1.
Kilpatrick, Stanley A.: *See*—
Facer, Grant T., and Kilpatrick. 3,041,784.
Kilroy, Thomas F., to Pittsburgh Plate Glass Co. Battery separator and manufacture thereof. 3,022,366, 2–20–62, Cl. 136—145.
Kilsheimer, John R., B. Phillips, and P. S. Starcher, to Union Carbide Corp. Polymer of alkenyl epoxycyclopentyl ethers. 3,043,813, 7–10–62, Cl. 260—80.5.
Kilthau, Martha K.: *See*—
Lindenfelser, Richard, Layman, and Kilthau. 3,021,239.
Kilzer, Joe: *See*—
Couty, Donald E., and Simmons. 3,066,600.
Kim, Chang S.: *See*—
Adamthwaite, Frank V., Jr., and Kim. 3,041,552.
Kim, Chih S., Safety tube. 3,036,619, 5–29–62, Cl. 152—337.
Kim, Young C., to Fairchild Camera and Instrument Corp. Range finder and tracking device. 3,032,660, 5–1–62, Cl. 250—83.3.
Kimball, A., Co.: *See*—
Angus, Leonard J. 3,024,724.
Braun, Karl J. 3,017,076.
Braun, Karl J. 3,051,374.
Braun, Karl J., and Cetran. 3,036,764.
Braun, Karl J., and Churchill. 3,027,071.
Clemens, John E., Delabar, and Ray. 3,025,054.
Harruff, Ray W., and Touchman. 3,018,947.
Hime, Robert L., and Lauterbach. 3,061,092.
Kimball, George H. Furniture mover. 3,059,904, 10–23–62, Cl. 254—10.
Kimball, George R., and N. L. Etten, to Chamberlain Corp. Method of making shelf structures. 3,037,267, 6–5–62, Cl. 29—160.
Kimball, Jimmy D.: *See*—
Anderson, Bazeel B., and Kimball. 3,028,608.
Kimball, John J.: *See*—
George, Harvey F., and Kimball. 3,032,245.
Kimball, Karl H.: *See*—
Johnson, Wayne W., Kimball, and Douglass. 3 042,497.
Kimball, Robert B.: *See*—
Bearden, Robert G., Kimball, Schneider, and Schwieger 3,045,122.
Kimball, Robert C.: *See*—
Ide, Frederick H., and Kimball. 3,046,718.
Kimberley, Walter R., to Samuel Stamping & Enameling Co. Door stop mechanism. 3,046,974, 7–31–62, Cl. 126—191.
Kimberley, Walter R., to Samuel Stamping & Enameling Co. Ventilating system for a cooking oven or the like. 3,051,-158, 8–28–62, Cl. 126—21.
Kimberlin, Charles N., Jr.: *See*—
Ellert, Henry G., and Kimberlin. 3,023,157.
Gladrow, Elroy M., Ruhnke, and Kimberlin. 3,055,841.
Mattox, William J., and Kimberlin. 3,030,431.
Kimberlin, Charles N., Jr., and E. M. Gladrow, to Esso Research and Engineering Co. Metal oxide containing catalyst base. 3,067,128, 12–4–62, Cl. 208—138.
Kimberly-Clark Corp.: *See*—
Banks, Charles T. 3,044,766.
Bletzinger, John C., and Day. 3,035,577.
Bletzinger, John C., and Day. 3,067,746.
Bletzinger, John C., and Whitehead. 3,068,867.
Braun, Ralph V. 3,046,184.
Brien, Huron C. 3,031,185.
Burger, William H. 3,025,196.
Cloots, Henry R. 3,035,379.
De Vos, John W. 3,047,452.
Dratz, Richard A. 3,047,427.
Gade, Marvin F., and Eastwood. 3,016,622.
Gorski, Frank A., Voigtman, and Wink. 3,067,087.
Grangaard, Donald H., and Saunders. 3,024,158.
Greiner, Charles J., and Johnson. 3,030,245.
Greiner, Charles J., Johnson, and Bletzinger. 3,034,180.
Greiner, Charles J., and Rutkus. 3,066,932.
Gresham, James T. 3,047,445.
Harwood, Kenneth J. 3,025,199.
Harwood, Kenneth J. 3,038,215.
Harwood, Kenneth J. 3,046,986.
Harwood, Kenneth J. 3,047,444.
Harwood, Kenneth J., Bletzinger, and Day. 3,029,817.
Harwood, Kenneth J., and Rickard. 3,038,474
Hechtman, John F., and Greenman. 3,019,134.
Hechtman, John F., and Greenman. 3,026,217.
Hechtman, John F., and Greenman. 3,026,241.
Hechtman, John F., and Greenman. 3,053,718.
Hechtman, John F., and Greenman. 3,066,043.
Hechtman, John F., and Simonen. 3,066,109.
Johnson, Charles G. R. 3,052,039.
Kellogg, Harry B. 3,056,213.
Kraus, James J., and Martiny. 3,061,944.
Lee, Charles A. 3,028,293.
Lee, Charles A. 3,066,731.
Loppnow, Frank B. 3,018,757.
Loynd, James. 3,044,542.
Mathews, John H. 3,035,965.
Minarik, Rudolf G. 3,044,192.
Nelson, Herbert C. 3,060,955.
Nelson, Howard N., and Sitterson. 3,019,944.
Peterson, Le Roy L. 3,044,228.
Pukis, Paul H., and Rutkus. 3,020,599.
Rogers, Sedgwick C. 3,028,285.
Rogers, Sedgwick C. 3,046,171.
Rowe, Carl H. 3,036,344.
Selke, William A., and Mathews. 3,032,465.
Voigtman, Edward H., Donnelly, and Lamb. 3,017,317.
Voigtman, Edward H., and Wolterding. 3,036,573.
Waeche, Anton R. 3,047,444.
Whitehead, Raymond O., Master, and Marogg. 3,035,497.
Wolterding, Richard A., and Wink. 3,067,747.
Zabel, Lowell W. 3,058,672.
Kimberly, Emerson E., to Jersey Production Research Co. Method and apparatus for measuring properties of fluid. 3,069,900, 12–25–62, Cl. 73—59.
Kimble Glass Co.: *See*—
Blackman, John W., and Smith. 3,026,705.
Kegg, Robert R. 3,061,664.
Knisely, Robert C. 3,063,285.
Modelle, Philip A. 3,048,945.
Stutske, William A., and Wood. 3,019,559.
Torok, Julius J. 3,054,220.
Kimble, Harvey S.: *See*—
Griffin, Donald E., and Kimble. 3,034,272.
Kimbro, William S., and E. M. McElhenie, to Buckner Mfg. Co. Pop-up sprinklers. 3,035,778, 5–22–62, Cl. 239—206.
Kimbrough, Lud H., Jr., to Ideal Fishing Float Co., Inc. Portable cooler. 3,057,508, 10–9–62, Cl. 220—55.7.
Kime, Elwood H., ¼ to A. P. Jensen. Building construction method. 3,034,268, 5–15–62, Cl. 29—407.
Kimel, Walter, and M. Montavon, to Hoffmann-La Roche Inc. Unsaturated acyclic esters, and method of producing same. 3,021,359, 2–13–62, Cl. 260—488.
Kimerer, Edward L. Apparatus for measuring the perpendicularity of a mortise or gain to a bolt hole. 3,045,352, 7–24–62, Cl. 33—112.
Kimes, Robert, to The Garrett Corp. Respiration apparatus. 3,018,790, 1–30–62, Cl. 137—454.6.
Kimm, Ewald J.: *See*—
Preston, Robert E., and Kimm. 3,037,747.
Kimm, Ewald J., to United Aircraft Products, Inc. Fuel heating apparatus. 3,047,055, 7–31–62, Cl. 158—36.3.
Kimm, John A.: *See*—
Wellborn, John M., and Kimm. 3,015,222.
Kimmell, Garman O.: *See*—
Robinson, Art I., and Kimmell. 3,031,169.
Kimpel, Louis J., to The Zeller Corp. Method of forming interlocking joint between telescoped members. 3,055,100, 9–25–62, Cl. 29—520.
Kimpel, Robert F., to Aerojet-General Corp. Cement composition. 3,069,278, 12–18–62, Cl. 106—110.
Kimpel, Robert F., and R. V. Evleth, to Aerojet-General Corp. Means to improve adherence of lining materials to the inner surface of combustion chambers of rocket motors. 3,057,148, 10–9–62, Cl. 60—35.6.
Kimrey, James A. C., and E. Hinkle, to Baker-Cammack Hosiery Mills, Inc. Yarn clamping tensioning and severing mechanism for circular knitting machines. 3,016,725, 1–16–62, Cl. 66—140.
Kimsey, Eric G. Hydraulic motors and pumps. 3,036,557, 5–29–62, Cl. 121—59.

Kimsey, William A., to The R. K. Le Blond Machine Tool Co. Lathe carriage drive. 3,066,553, 12–4–62, Cl. 77—3.
Kimsey, Woodrow P., and W. J. Ryan, to Caterpillar Tractor Co. Shipping accessory for tractor drawn scrapers. 3,015,-173, 1–2–62, Cl. 37—129.
Kimura, Eugene T., to Abbott Laboratories. Bronchodilator composition and method. 3,035,976, 5–22–62, Cl. 167—65.
Kimura, Goro : *See*—
Inaba, Yanosuke, Miyake, and Kimura. 3,046,254.
Inaba, Yanosuke, Miyake, and Kimura. 3,054,777.
Kimura, Masahiko, and T. Hosaka. Intravenous injection syringe. 3,057,351, 10–9–62, Cl. 128—218.
Kimura, Michiomi : *See*—
Tokime, Masakata, and Kimura. 3,018,288.
Kimwood Machine Co. : *See*—
Norwood, John W. 3,033,169.
Norwood, John W. 3,036,873.
Kincaid, Joseph R., to National Distillers and Chemical Corp. Method and apparatus for producing continuous bag stock. 3,060,075, 10–23–62, Cl. 156—251.
Kincaid, Kent R. Water ski device. 3,025,539, 3–20–62, Cl. 9—310.
Kincl, Fred A. : *See*—
Iriarte, Jose, Djerassi, and Kincl. 3,053,839.
Kincl, Fred A., to Syntex, S.A. Steroidal fluoro compounds and process for the production thereof. 3,029,261, 4–10–62, Cl. 260—397.4.
Kincl, Fred A., to Syntex Corp. 3-thio and 3-mercapto-testosterones. 3,056,810, 10–2–62, Cl. 260—397.5.
Kindal, Richard M. : *See*—
Adams-Ray, Jack, and Persson. 3,051,180.
Kinder, David H., to Allied Research Products Inc. Process of treating zinc castings. 3,060,071, 10–23–62, Cl. 156—18.
Kinder, Gotthard : *See*—
Greger, Paul, Kinder, and Sommer. 3,017,813.
Kinder, Walter, to C. Zeiss. Interferometers. 3,035,482, 5–22–62, Cl. 88—14.
Kinderman, Walter J., to Yarnall-Waring Co. Temperature compensated boiler liquid level gauge. 3,065,634, 11–27–62, Cl. 73—302.
Kinderman, Walter J., to Yarnall-Waring Co. Transmission of motion from closed space. 3,067,623, 12–11–62, Cl. 74—17.8.
Kindig, Arnie J., to Jeffrey Galion Mfg. Co. Conveyor idler assembly. 3,031,895, 5–1–62, Cl. 74—230.7.
Kindig, Guilford E., and H. H. Dudley, to Eastman Kodak Co. Take-up chamber for photographic film. 3,057,573, 10–9–62, Cl. 242—71.
Kindl, Friedrich, to North American Philips Co., Inc. Switching arrangement for dictation apparatus. 3,015,491, 1–2–62, Cl. 274—11.
Kindler, Adolf, and C.-H. Eckhardt, to Crede & Co. G.m.b.H., Gebruder. Tanks for tank vehicles. 3,050,315, 8–21–62, Cl. 280—5.
Kindlien, Gordon E., and R. C. Rothi, to K & N Machine Works, Inc. Cyclic clutch mechanism. 3,061,059, 10–30–62, Cl. 192—18.
Kindred, Bob A. : *See*—
Bloom, Aaron, and Kindred. 3,035,594.
Kindred, Bob A., to Sierra Engineering Co. Nonrebreathing valve. 3,028,873, 4–10–62, Cl. 137—63.
Kindred, Raymond L., and M. C. Burk, to Phillips Petroleum Co. Programmer-integrator for chromatographic analyzer. 3,043,998, 8–21–62, Cl. 73—23.
Kindred, Raymond L., and G. T. Porter, to Phillips Petroleum Co. Fluid analyzer circuits. 3,069,896, 12–25–62, Cl. 73—23.
Kindseth, Harold V., to Bemis Bro. Bag. Co. Sealing apparatus. 3,018,512, 1–30–62, Cl. 18—4.
Kindseth, Harold V., to Bemis Bro. Bag Co. Package for delicate articles. 3,023,885, 3–6–62, Cl. 206—46.
Kindseth, Harold V., to Bemis Bro. Bag Co. Package construction. 3,047,137, 7–31–62, Cl. 206—46.
Kindt-Collins Co., The : *See*—
Kindt, Ernest T., and Rimmel. 3,030,677.
Kindt, Ernest T., and I. A. Rimmel, to The Kindt-Collins Co. Guide pin. 3,030,677, 4–24–62, Cl. 22—110.
Kine, Benjamin B. : *See*—
Brown, George L., Harren, Kine, and Wormser. 3,033,-811.
Buechler, Peter R., and Kine. 3,048,496.
Moser, Vincent J., and Kine. 3,015,595.
Richter, George A., Jr., McBurney, and Kine. 3,055,729.
Zdanowski, Richard E., Toy, Larsson, and Kine. 3,061,563.
Kinelski, Eugene H., to The International Nickel Co., Inc. Method of forming brazed structures. 3,067,508, 12–11–62, Cl. 29—487.
Kinematics Ltd. : *See*—
Crang, Terence F. 3,048,191.
Kinetics Corp. : *See*—
Elliot, Louis J. 3,060,284.
King, Aden J. : *See*—
Clark, Charles C., Kanda, and King. 3,017,248.
Clark, Charles C., Kanda, and King. 3,021,197.
Clark, Charles C., Kanda, and King. 3,022,138.
Clark, Charles C., Kanda, and King. 3,022,139.
King, Bartlev E., to Sifo Co. Toy cobbler's set. 3,058,237, 10–16–62, Cl. 35—8.
King, Bernard G., to Bell Telephone Laboratories, Inc. Negative resistance pulse regenerator with unidirectional reflector. 3,054,906, 9–18–62, Cl. 307—88.5.
King, Bernard G., to United States of America, Army. Direct coupled PCM repeater. 3,069,500 12–18–62, Cl. 178—70.
King, Bertell W. Barge measuring instrument. 3,060,419, 12–4–62, Cl. 33—125.
King, Bertell W. Instrument for determining the elevation above water level. 3,066,531, 12–4–62, Cl. 73—290.
King, Blaine H., to The Bendix Corp. Vibration detector. 3,034,001, 5–8–62, Cl. 310—8.7.
King, Brian E. : *See*—
Steventon, Charles F., and King. 3,058,733.
King, Carl F., Jr., and D. C. Schroeder, to O. J. Shafer. Bearing lock. 3,036,872, 5–29–62, Cl. 308—236.
King, Cecil V., to Beleggingsmaat-Schappy "Margarita". Leak detector. 3,043,129, 7–10–62, Cl. 73—40.
King, Clarence V. H., Jr., and J. W. Margraf. Portable carton bottom sealers. 3,039,370, 6–19–62, Cl. 93—49.
King Container Corp. : *See*—
Schoonmaker, Charles D. 3,029,176.
King, Dale E. : *See*—
Bergh, Thomas R., King, Nierzwicki, and Thorne. 3,043,567.
King, Donald D., to United States of America, Navy. Radiation load simulator. 3,025,462, 3–13–62, Cl. 324—58.
King, Donald M. Chains for use in conveyor systems. 3,021,-718, 2–20–62, Cl. 74—254.
King, Donald M. Drive units for conveyor systems. 3,032,-173, 5–1–62, Cl. 198—203.
King, Douglas R. : *See*—
Morgan, William H., Herbst, and King. 3,046,791.
King, Edward G., III, ½ to J. Wyniger. Insulated carrying case for heated frozen food dinners and the like. 3,016,129, 1–9–62, Cl. 206—4.
King, Edward J. : *See*—
Hudson, James W., and King. 3,029,964.
King, Edward J., and L. Romanzi, Jr., to General Motors Corp. Rear door window regulator. 3,020,040, 2–6–62, Cl. 268—124.
King, Edward L. : *See*—
Fucinari, Angelo M., and King. 3,023,163.
King, Edwin V., Jr., and T. R. Smith, to Union Carbide Corp. Production of nickel carbonyl. 3,063,808, 11–13–62, Cl. 23—203.
King Electric Equipment Co. : *See*—
Makuh, George. 3,061,772.
King, Fred T. : *See*—
Struble, Glenn E., and King. 3,053,411.
King, Geo. W., Ltd. : *See*—
Burrows, Arthur T. C. 3,027,850.
Burrows, Arthur T. C. 3,031,033.
Burrows, Arthur T. C. 3,044,417.
Burrows, Arthur T. C. 3,048,125.
Burrows, Arthur T. C. 3,056,308.
Burrows, Arthur T. C. 3,056,486.
Burrows, Arthur T. C. 3,056,586.
Burrows, Arthur T. C. 3,067,837.
Burrows, Arthur T. C. 3,067,862.
Burrows, Arthur T. C. 3,070,036.
Burrows, Arthur T. C. 3,070,037.
King, George L. : *See*—
Higgins, Charles A., and King. 3,037,078.
King, George O., Jr., and L. J. Ross, to Crown Zellerbach Corp. Collapsible container. 3,069,063, 12–18–62, Cl. 229—41.
King, Gordon V., to Sperry Rand Corp. Encoding device. 3,039,080, 6–12–62, Cl. 340—149.
King, Harold L. Contact lens container. 3,035,589, 5–22–62, Cl. 134—137.
King, Henry W. M. Conveyor systems. 3,063,547, 11–13–62, Cl. 198—232.
King, J. A. Powdered vehicles. 3,061,035, 10–30–62, Cl. 180—79.1.
King, James F. : *See*—
Bahnson, Agnew H., Jr., and King. 3,064,299.
Holopainen, Vaino J., and King. 3,057,494.
King, James L., and R. G. Finney, to The Ryan Aeronautical Co. Aerial cargo delivery means. 3,016,216, 1–9–62, Cl. 244—138.
King, James R. : *See*—
Haist, Grant M., and King. 3,041,170.
King, James R., and G. M. Haist, to Eastman Kodak Co. Photographic production of electrically conducting silver images. 3,033,765, 5–8–62, Cl. 204—15.
King, John A., to General Dynamics Corp. Loudspeaker diaphragm suspension. 3,019,849, 2–6–62, Cl. 181—31.
King, John C. : *See*—
Smith, Donald C., and King. 3,016,146.
King, John P., to Thiokol Chemical Corp. Force gages using strain-sensing wire elements and methods of making force gages. 3,064,221, 11–13–62, Cl. 338—2.
King, Joseph B. Pump. 3,015,280, 1–2–62, Cl. 103—46.
King, Joseph C., to Metro-Atlantic, Inc. Process of dyeing with vat dyes. 3,034,850, 5–15–62, Cl. 8—94.
King, Kenneth G., to Westinghouse Brake & Signal Co., Ltd. Constant electric current power supplies. 3,064,139, 11–13–62, Cl. 307—58.
King, Kenneth P. Fuel shut off device or degasser. 3,042,-387, 7–3–62, Cl. 261—41.
King, L. D. P. : *See*—
Klehn, Robert M., King, Peterson, and Swickard. 3,041,-263.

King, Laurence F., to Esso Research and Engineering Co. Manufacture of odorless paraffinic solvent. 3,053,915, 9–11–62, Cl. 260—683.9.

King, Lewis G., J. Bernstein, and H. P. Dengler, to Esso Research and Engineering Co. Process treatment of gases from the regeneration of a platinum group metal hydroforming catalyst. 3,046,235, 7–24–62, Cl. 252—411.

King, Louis T., and C. T. Zimmerman, to The Garrett Corp. Flange connecting clamp. 3,029,095, 4–10–62, Cl. 285—411.

King, Lowell J. Pie tin handling device. 3,042,439, 7–3–62, Cl. 294—30.

King Mfg. Corp.: *See*—
Turner, Herman B. 3,038,197.

King, Marvin M.: *See*—
Craddock, Ronald G., and King. 3,037,831.
Gardiner, David E., and King. 3,037,814.

King, Marvin M., and G. T. N. Moy, to Shwayder Brothers, Inc. Stacking chair. 3,041,110, 6–26–62, Cl. 297—451.

King, Millard G., to General Motors Corp. Pneumatic gauges for measuring bore diameters of workpieces. 3,069,899, 12–25–62, Cl. 73—37.9.

King, Nancy H., to Eastman Kodak Co. Developers for photographic reversal processes. 3,021,212, 2–13–62, Cl. 96—29.

King, Paul A., and J. L. Giovannucci, to National Distillers and Chemical Corp. Method of making honeycomb laminate. 3,068,565, 12–18–62, Cl. 29—472.3.

King, Paul E., and R. F. Mallina, to Thompson Ramo Wooldridge Inc. Convertible classroom desk. 3,054,651, 9–18–62, Cl. 312—239.

King, Paul J.: *See*—
Kelley, Oliver K., Buckay, and King. 3,023,636.

King, Phillip W.: *See*—
Haydon, Arthur W., Daniels, and King. 3,058,017.

King, Ralph M., to Layne-Arkansas Co. Aeration means. 3,028,150, 4–3–62, Cl. 261—24.

King, Ralph W.: *See*—
Sharp, Walter H., Street, and King. 3,056,769.

King, Ralph W., and D. J. Movsovic, to Shell Oil Co. Treatment of complex residue. 3,027,280, 3–27–62, Cl. 134—22.

King, Richard C., to The Brearley Co. Bathroom scale. 3,044,565, 7–17–62, Cl. 177—230.

King, Richard G.: *See*—
Carpenter, Robert G., King, and Greaves. 3,034,271.

King, Robert E., and H. I. Stanback, to Square D Co. Electrical panelboard. 3,065,386, 11–20–62, Cl. 317—119.

King, Robert H.: *See*—
Felmet, Frederick W. 3,056,191.

King, Robert P.: *See*—
Barbosa, Elzeario. 3,051,560.
De Halleux, Pierre, and King. 3,056,484.

King, Robert W.: *See*—
McCrory, Rollin J., and King. 3,044,452.
McCrory, Rollin J., King, and Conklin. 3,042,010.

King, Roderick V.: *See*—
Patton, Franklin S., and King. 3,022,922.

King, Rupert W., to Ibis Enterprises Ltd. Method and apparatus for depositing continuous roving. 3,042,567, 7–3–62, Cl. 156—38.

King Sales & Engineering Co.: *See*—
Lawrence, Joseph L. and F. J. 3,067,559.

King-Seeley Thermos Co.: *See*—
Bergsma, Rudolph. 3,051,814.
Bergsma, Rudolph. 3,070,685.
Boddy, Leonard. 3,048,296.
Darmstadt, Lois J., and Fuller. 3,059,798.
Eshelman, Robert W. 3,054,413.
Gaskell, Walter L. 3,035,619.
Gaskell, Walter L. 3,051,204.
Nelson, Marcus L. 3,044,311.
Nelson, Marcus L. 3,048,238.
Otto, Anthony K. 3,037,179.
Tyner, Warren C. 3,022,497.

King, Stanley: *See*—
Gray, John W., King, and Reed. 3,061,830.

King Vester Corp.: *See*—
Borgersen, Roland and R. H., and Jobe. 3,029,631.

King, Thomas F., L. P. Farnsworth, and M. M. Hannoosh, to United States of America, Air Force. Base details. 3,049,201, 8–14–62, Cl. 189—36.

King, William H.: *See*—
Pons, Walter A., Jr., Pominski, and King. 3,062,876.

King, William H., and V. L. Frampton, to United States of America, Agriculture. Recovery of oil from acetone-hexane-water mixed solvent extracts of raw cottonseed meats. 3,025,314, 3–13–62, Cl. 260—412.4.

King, William J., to Colgate-Palmolive Co. Dental preparations consisting essentially of a fluoride compound and a sarcoside compound to reduce the fluoride toxicity. 3,029,191, 4–10–62, Cl. 167—93.

King, William J., to E. I. du Pont de Nemours, and Co. Compaction of dyes. 3,034,848, 5–15–62, Cl. 8—79.

King, William R.: *See*—
Gernes, Donald C., and King. 3,057,681.

King, William R., to Minneapolis-Honeywell Regulator Co. Photographic slide projector. 3,025,759, 3–20–62, Cl. 88—28.

King, William R., to Minneapolis-Honeywell Regulator Co. Photographic slide tray. 3,045,816, 7–24–62, Cl. 206—73.

King, William R., to Minneapolis-Honeywell Regulator Co. Photographic slide projector. 3,053,146, 9–11–62, Cl. 88—28.

King, William R., to Jas. H. Matthews & Co. Marking tool for screw machines. 3,053,172, 9–11–62, Cl. 101—7.

King, William R., and L. C. Keaton, to Phillips Petroleum Co. Surge tank for feeding finely divided flocculent solids. 3,036,737, 5–29–62, Cl. 222—55.

King, William S. Fishing reel mounting. 3,053,469, 9–11–62, Cl. 242—84.2.

King-O-Matic Equipment Corp.: *See*—
McGihon, Leonard. 3,037,431.
McGihon, Leonard. 3,058,271.

Kings, Leonard W., to Girling Ltd. Device for replenishing fluid in a hydraulic system. 3,059,671, 10–23–62, Cl. 141—330.

Kingsbury, Chadwick B., to Beaunit Mills, Inc. Drafting apparatus. 3,060,669, 10–30–62, Cl. 57—36.

Kingsbury, Chadwick B., to Beaunit Mills, Inc. Direct spinning machine. 3,066,357, 12–4–62, Cl. 19—35.

Kingsbury, Edwin F., to Bell Telephone Laboratories, Inc. Reflector optical system. 3,020,792, 2–13–62, Cl. 88—1.

Kingsbury, Henry E. R., to Electrolube Ltd. Dispensers for liquids or powders. 3,066,834, 12–4–62, Cl. 222—215.

Kingsbury, John: *See*—
Germany, Leslie W., and Kingsbury. 3,055,975.

Kingsbury, John, to Pye Ltd. Arrangements for mounting objects. 3,020,016, 2–6–62, Cl. 248—183.

Kingsbury, John, and P. Bauer, to Pye Ltd. Television cameras with lenses of variable focal length. 3,062,916, 11–6–62, Cl. 178—7.2.

Kingsbury, John C. Insulating composition. 3,015,626, 1–2–62, Cl. 252—62.

Kingsbury Machine Works, Inc.: *See*—
Needs, Sydney J., and Corby. 3,070,411.
Spiegel, Julian F. 3,056,635.

Kingsbury, Philip A.: *See*—
Brown, Norman C., Sloan, and Kingsbury. 3,043,744.

Kingsbury, Philip A., and R. V. Foster, to Cooper, McDougall & Robertson Ltd. Anthelmintic compositions and method of use. 3,060,087, 10–23–62, Cl. 167—53.

Kingsbury, Philip A., and R. V. Foster, to Cooper, McDougall & Robertson Ltd. Anthelmintic compositions and method of using same. 3,060,088, 10–23–62, Cl. 167—53.

Kingsford, Ellis. Sportsman's stool. 3,058,711, 10–16–62, Cl. 248—156.

Kingsford-Smith, Charles A.: *See*—
Baugh, Charles W., Jr., and Kingsford-Smith. 3,018,327.

Kingsford-Smith, Charles A., to Westinghouse Electric Corp. Automatic frequency control for low input impedance oscillators. 3,038,033, 6–5–62, Cl. 178—69.5.

Kingsley, David G.: *See*—
Hanssen, Tore B. 3,069,524.
Malecki, Witold. 3,065,812.

Kingsley, David G., to Stapling Machines Co. Method for attaching wirebound box parts. 3,025,892, 3–20–62, Cl. 140—93.

Kingsley, Jerrold L. Display rack with locking feature. 3,022,884, 2–27–62, Cl. 211—4.

Kingsley, Lewis A. Pencil lettering machine. 3,039,384, 6–19–62, Cl. 101—11.

Kingston Instrument Co. Ltd.: *See*—
Mayall, William. 3,019,845.

Kingston Mfg. Co., Inc.: *See*—
Hayward, Leroy S., Kingsley, and Horvath. 3,056,435.
St. Amour, Joseph. 3,040,904.
St. Amour, Joseph. 3,063,534.

Kingston, Marjorie: *See*—
Abseck, Stuart, and Rehfield. 3,030,923.

Kingston, Paul E., to Bell Telephone Laboratories, Inc. Cable-handling equipment. 3,038,648, 6–12–62, Cl. 226—196.

Kingston Products Corp.: *See*—
Bowman, Joe. 3,021,399.
Bowman, Joe. 3,046,803.
Bowman, Joe. 3,056,307.
Bowman, Joe, and Woolley. 3,053,947.
Dull, William B. 3,015,705.
Hinkle, Paul E. 3,025,367.
Woolley, Lee A. 3,025,366.
Woolley, Lee A. 3,033,054.

Kinigsberg, David, and I. Hirsch. Automatic control for irrigation systems. 3,037,704, 6–5–62, Cl. 239—63.

Kinkead Industries, Inc.: *See*—
Kochanowski, George A. 3,037,555.
Kochanowski, George A. 3,062,279.
Turek, Herbert. 3,038,252.

Kinkead, Robert M.: *See*—
Valentine, Orvill H., Jr., Lodding, Kinkead, and Moorhead. 3,023,899.

Kinkella, Joseph M. Wide angle mirror. 3,028,794, 4–10–62, Cl. 88—87.

Kinley, John C.: *See*—
Anderson, Clifford E., Robertson, and Kinley. 3,061,938.
Kinley, Myron M. 3,022,558.
Kinley, Myron M. and J. C. 3,062,304.

Kinley, Myron M., to J. C. Kinley. Line latch. 3,022,558, 2–27–62, Cl. 24—134.

Kinley, Myron M. and J. C.; said M. M. Kinley assor. to said J. C. Kinley. Jarring tools. 3,062,304, 11–6–62, Cl. 175—296.

Kinnard, Wolcott S. Stereoscopic camera. 3,045,572, 7–24–62, Cl. 95—18.

Kinnavy, Roger J.: *See*—
Emeny, George B., and Kinnavy. 3,038,413.

Kinne, Miles T. Pivoting vise mount and improved jig. 3,047,286, 7–31–62, Cl. 269—45.

Kinnebrew, Joseph E., to Simmons Co. Spring seat. 3,030,-147, 4–17–62. Cl. 297—452.
Kinneman, William P., and A. T. Ippen, to Raymond International, Inc. Methods for driving pile shells at submerged locations. 3,022,634, 2–27–62, Cl. 61—54.
Kinneman, William P., Jr., to Johns-Manville Corp. Reinforced plastic pipe. 3,055,278, 9–25–62, Cl. 93—94.
Kinney, Alfred W.: *See*—
Carew, Herman, and Kinney. 3,061,987.
Kinney, Edward J. Culvert cleaner. 3,044,196, 7–17–62, Cl. 37—143.
Kinney, Edward S., and C. E. Wright, to Lockheed Aircraft Corp. Motor control. 3,059,163, 10–16–62, Cl. 318—229.
Kinney, George A., to E. I. du Pont de Nemours and Co. Windup equipment. 3,042,324, 7–3–62, Cl. 242—18.
Kinney, John F., to The Bendix Corp. Control apparatus for internal combustion engine. 3,023,801, 3–6–62, Cl. 158—36.3.
Kinney, John T., to Caterpillar Tractor Co. Weld rod guide. 3,025,387, 3–13–62, Cl. 219—130.
Kinney, Lawrence W.: *See*—
Norman, Daniel P., and Kinney. 3,061,446.
Kinney, S. P. Engineers, Inc.: *See*—
Kinney, Selwyne P. 3,042,362.
Kinney, Selwyne P. 3,061,292.
Kinney, Selwyne P., and Carr. 3,058,492.
Kinney, Selwyne P., to S. P. Kinney Engineers, Inc. Butterfly valve. 3,042,362, 7–3–62, Cl. 251—306.
Kinney, Selwyne P., to S. P. Kinney Engineers, Inc. Blast heating system for blast furnaces and method of operating the same. 3,061,292, 10–30–62, Cl. 263—19.
Kinney, Selwyne P., and H. B. Carr, to S. P. Kinney Engineers, Inc. Goggle valve. 3,058,492, 10–16–62, Cl. 138—94.3.
Kinnicutt, Roger, Jr., to Morgan Construction Co. Coil handling apparatus. 3,023,342, 5–8–62, Cl. 198—25.
Kinnison, Court J., to Western Piping & Engineering Co. Inc. Automotive cable winch. 3,021,113, 2–13–62, Cl. 254—165.
Kinnison, Court J., to Western Piping & Engineering Co., Inc. Spring urged ball and socket exhaust pipe connector. 3,047,315, 7–31–62, Cl. 285—269.
Kinoshita, Shukuo, and S. Udaka, to Kyowa Hakko Kogyo Kabushiki Kaisha. Method of producing L-valine by fermentation. 3,028,310, 4–3–62, Cl. 195—47.
Kins, Georg H. Injection molding apparatus. 3,017,667, 1–23–62, Cl. 18—42.
Kinsella, Arthur J., Jr.: *See*—
Mitchell, John J., and Kinsella. 3,039,975.
Kinser, Mead B.: *See*—
Lane, Walter P., and Kinser. 3,057,139.
Kinser, Vernon. Automatic shaft brake mechanism. 3,017,-975, 1–23–62, Cl. 192—8.
Kinsey, Cecil J.: *See*—
Brown, Carl L., Myers, Kinsey, and Menefee. 3,050,614.
Kinsey, Lewis R. Lifeguard pilot light for range tops. 3,034,572, 5–15–62, Cl. 158—130.
Kinsley, Lewis H. Feed screw. 3,026,991, 3–27–62, Cl. 198—34.
Kinsman, Calvin T. Portable head rest. 3,017,222, 1–16–62, Cl. 297—397.
Kinsman, Frank W. Spring clutch. 3,033,336, 5–8–62, Cl. 192—41.
Kinsman Mfg. Co., Inc.: *See*—
Dorf, Richard H. 3,022,696.
Dorf, Richard H. 3,040,612.
Kinstler, Robert C., and J. M. Rodgers, to American Cyanamid Co. Preparation of N-cyclohexyl-2-benzothiazole sulfenamide. 3,055,909, 9–25–62, Cl. 260—306.6.
Kinsworthy, Donald D., to The Lau Blower Co. Blowers. 3,035,761, 5–22–62, Cl. 230—235.
Kintner, Edwin K., to Kinwell Development Co. Valve. 3,052,444. 9–4–62. Cl. 251—62.
Kintner, Mildred M. Bedding retaining means. 3,066,321, 12–4–62. Cl. 5—320.
Kintner, Mildred M. Bedding. 3,066,323, 12–4–62, Cl. 5—334.
Kintzel, Gerhard, to Nassovia Werkzeugmaschinenfabrik G.m.b.H. Electromagnetically energized oscillating head for spark erosion machine. 3,053,965, 9–11–62, Cl. 219—69.
Kintzer, Nicholas D., to United States of America, Army. Latch type cartridge link. 3,026,776, 3–27–62, Cl. 89—35.
Kinwell Development Co.: *See*—
Kintner, Edwin K. 3,052,444.
Kinzbach, Robert B. Combined reamer and drill string stabilizer. 3,052,310, 9–4–62, Cl. 175—406.
Kinzelman, Francis J., to J. R. Shore. Rotary printing press for continuous metal strip. Re. 25,134, 3–13–62, Cl. 101—178.
Kinzelman, Joseph, to Plastering Development Center, Inc. Apparatus for handling a paste-like material containing a gas. 3,033.123, 5–8–62, Cl. 103—195.
Kinzinger, Walter C.: *See*—
Slenker, Stephen, and Kinzinger, 3,022,465.
Kious, Gerald A., to General Electric Co. Automatic gain control system. 3,017,508, 1–16–62, Cl. 250—20.
Kip, Charles E.: *See*—
Riley, Jesse L., and Kip. 3,032,384.
Kiper, Gerd, to Agfa Aktiengesellschaft. Manual and automatic cameras. 3,056,340, 10–2–62, Cl. 95—10.
Kiper, Gerd, to Agfa Aktiengesellschaft. Between-the-lens shutter assembly. 3,069,989, 12–25–62, Cl. 95—63.
Kiper, Gerd, and G. Ehgartner, to Agfa Aktiengesellschaft. Flash control structure for cameras. 3,067,662, 12–11–62, Cl. 95—11.5.
Kiphart, Otis W., to Phillips Petroleum Co. Disposable, elastic rocket case. 3,017,746, 1–23–62, Cl. 60—35.6.
Kipp, Earl M., to California Research Corp. Two-stage oil well casing cementing with upper and lower stationary jets for secondary stage. 3,062,285, 11–6–62, Cl. 166—22.
Kippenhan, Dean O., to United States of America, Atomic Energy Commission. Electrostriction valve. 3,055,631, 9–25–62, Cl. 251—129.
Kipper, Alfred C.: *See*—
Arens, Robert C., and Kipper. 3,023,484.
Kipper, George J., to Wyatt & Kipper, Engineers, Inc. Screw conveyor for fibrous material. 3,056,487, 10–2–62, Cl. 198—214.
Kippur, Perry R., to Olin Mathieson Chemical Corp. Chloro (2-chlorovinyl) alkylboranes and their preparation. 3,045,-044, 7–17–62, Cl. 260—543.
Kiraly, Ernest. Vacuum cleaner for shoes. 3,030,650, 4–24–62. Cl. 15—310.
Kirby, Arthur F., and R. A. Smiley, to E. I. du Pont de Nemours, and Co. Process for the purification of nitrocyclohexane. 3,035,100, 5–15–62, Cl. 260—644.
Kirby, Ben H., Jr., and W. C. Cochran, said Cochran assor. to Aluminum Co. of America, said Kirby assor. to Koppers Co., Inc. Coloring of oxide-coated aluminum. 3,058,855, 10–16–62. Cl. 148—6.1.
Kirby, Harold L., to Airmarine Development Corp. Marker buoy. 3,031,693, 5–1–62, Cl. 9—9.
Kirby, Harold L., to Airmarine Development Corp. Cartridge piercing mechanism or the like. 3,051,356, 8–28–62, Cl. 222—5.
Kirby, James R., to Vitro Corp. of America. Flying pipe refueling system. 3,061,246, 10–30–62, Cl. 244—135.
Kirby, John H., II. Junk shot. 3,016,830, 1–16–62, Cl. 102—49.
Kirby, Kevin D.: *See*—
Robinson, Bertram D., Kirby, and Greenham. 3,031,291.
Kirby, Michael J.: *See*—
Flimer, Frank L., and Kirby. 3,028,067.
Kirby, Francis W., and C. M. Shuey. Combined crutches and tray. 3,026,887, 3–27–62, Cl. 135—49.
Kirby, Robert E., to Pittsburgh Plate Glass Co. Glass manufacture. 3,050,913, 8–28–62, Cl. 51—283.
Kirby, Wilfred, and F. K. Daniels, to Vickers-Armstrongs (Engineers) Ltd. Machines for forming fold lines in boards and sheets. 3,027,816, 4–3–62, Cl. 93—58.1.
Kirch, Olive V.: *See*—
Kirch, Robert J. 3,057,014.
Kirch, Robert J., deceased, by O. V. Kirch, Administratrix, to Beckman Instruments, Inc. Method of constructing a potentiometer housing. 3,057,014, 10–9–62, Cl. 18—55.
Kirch, William, and R. S. Solvik, to National Distillers and Chemical Corp. Catalyst removal from polyolefin polymer solutions. 3,070,583, 12–25–62, Cl. 260—94.9.
Kircher, Albert, Jr., to The Fitzpatrick Co. Granulating apparatus. 3,051,400, 8–28–62, Cl. 241—186.
Kircher, Albert, Jr., to The Fitzpatrick Co. Apparatus for forming sausage emulsions and the like. 3,064,701, 11–20–62, Cl. 146—182.
Kircher, Paul J., to Landers, Frary & Clark. Thermostatic switch. 3,035,144, 5–15–62, Cl. 219—25.
Kirchhoff, Joseph D., to Baker Perkin Inc. Material handling apparatus. 3,036,690, 5–29–62, Cl. 198—20.
Kirchhuebel, Kurt: *See*—
Cueppers, Curt, and Kirchhuebel. 3,044,348.
Kirchler, Lewis, to International Harvester Co. Tandem wheel structure for connecting earth movers. 3,049,365, 8–14–62, Cl. 280—408.
Kirchner, Egon, to Maschinenfabrik Augsburg-Nurnberg, A.G. Cutting tool mounting. 3,060,554, 10–30–62, Cl. 29—96.
Kirchner, Francois F., to Schlumberger Well Surveying Corp. Control systems. 3,022,358, 2–27–62. Cl. 324—5.
Kirchner, George J., and C. C. Wales, to United States Steel Corp. Cooling-bed run-in conveyor and kickout. 3,052,338, 9–4–62, Cl. 198—24.
Kirchner, Norbert, and F. H. de Jong, to North American Philips Co., Inc. Time switching arrangement comprising selectively adjustable counting means. 3,031,622, 4–24–62. Cl. 328—48.
Kirchner, William J.: *See*—
Heltzel, Carl J., Gardner, and Kirchner. 3,049,248.
Kirk, Chester H., Jr. Air relief device. 3,018,787, 1–30–62, Cl. 137—202.
Kirk, Chester H., Jr. Expansion tank. 3,035,614, 5–22–62, Cl. 138—30.
Kirk, Claude R. Deposit receiving and recording machine. 3,020,994, 2–13–62, Cl. 194—10.
Kirk, David B., to Moore Products Co. Fluid pressure transmitters. 3,021,858, 2–20–62, Cl. 137—85.
Kirk, David N.: *See*—
Burn, Derek, Kirk, Petrow, and Weston. 3,023,206.
Kirk, David N., and V. Petrow, to The British Drug Houses Ltd. 4α-methyl-3-oxo-5α steroids and a method for preparation of same. 3,057,859, 10–9–62, Cl. 260—239.55.
Kirk, Donald R., and L. M. Smith, to General Dynamics Corp. Composite structural panel. 3,020,986, 2–13–62, Cl. 189—34.
Kirk, Donald R., and J. M. Warren, to General Dynamics Corp. Composite structural unit. 3,029,910, 4–17–62, Cl. 189—34.

Kirk, G. R., Co.: *See*—
Thorburn, Gordon L. 3,038,688.
Kirk, George A., to United States Testing Co., Inc. Method and apparatus for grading cotton and other materials. 3,039,603, 6–12–62, Cl. 250—208.
Kirk, Harold L., to American Air Filter Co., Inc. Control system for remote operation of air heater. 3,056,398, 10–2–62, Cl. 126—110.
Kirk, Hugh A.: *See*—
Durfey, David L. 3,066,327.
Kirk, Joseph R., to Atwood Vacuum Machine Co. Preloaded ball bearing seat slide construction. 3,042,458, 7–3–62, Cl. 308—3.8.
Kirk, Joseph R., and S. G. Atwood, to Atwood Vacuum Machine Co. Rolling fuel tank units or the like. 3,059,942, 10–23–62, Cl. 280—5.
Kirk, Kirk L. Cooking time indicator. 3,060,585, 10–30–62, Cl. 33—143.
Kirk, Larry D.: *See*—
Muskas, Gus C., Griffin, and Kirk. 3,023,107.
Kirk, Morris P., & Son, Inc.: *See*—
Larrieu, Leslie J. 3,035,926.
Larrieu Leslie J. 3,037,859.
Kirk, Norman, to General Electric Co. Purification of pentaborane. 3,021,264, 2–13–62, Cl. 202—52.
Kirk, Robert A., to Eastman Kodak Co. Finder signal for photographic cameras. 3,021,771, 2–20–62, Cl. 95—10.
Kirk, Robert B., to Borg-Warner Corp. Marine bearing. 3,023,059, 2–27–62, Cl. 308—238.
Kirk, Robert E., to General Motors Corp. Receptacle for printed circuit boards. 3,024,436, 3–6–62, Cl. 339—17.
Kirk, Robert E., to General Motors Corp. Switching device. 3,048,673, 8–7–62, Cl. 200—51.
Kirk, Reuel J.: *See*—
Del Duca, Anthony, and Kirk. 3,065,364.
Kirk, Thomas E., to General Motors Corp. Motor control circuit. 3,032,697, 5–1–62, Cl. 318—293.
Kirk, Thomas E., to General Motors Corp. Ignition system. 3,051,870, 8–28–62, Cl. 315—177.
Kirk, Thomas E., to General Motors Corp. Magnetically operated door latch. 3,069,193, 12–18–62, Cl. 292—144.
Kirk, Thomas E., and J. H. Paige, to General Motors Corp. Internal combustion engine ignition system. 3,046,447, 7–24–62, Cl. 315—206.
Kirk, William F.: *See*—
Margolin, Harold, Croan, Kirk, and Farrar. 3,069,259.
Kirk-Wing Co.: *See*—
Kraus, Edmund J. and R. A. 3,019,501.
Kirkbride, John F., to Boeing Airplane Co. Solid propellant rocket motor. 3,052,092, 9–4–62, Cl. 60—35.6.
Kirkham, Edward E.: *See*—
Jaeger, Jacob J., Kirkham, and Nowak. 3,068,386.
Kirkhart, Fred P.: *See*—
Johnson Harry V., and Kirkhart. 3,048,434.
Kirkhof Mfg. Corp.: *See*—
Carrigan, William H., and Simon. 3,068,348.
Girton, Preston E. 3,024,431.
Kirkland, Earl V., J. Lee, and R. F. Smith, to Standard Oil Co. Polyvinyl chloride homogenized with triisobutyl trimesate and method of preparation. 3,058,942, 10–16–62, Cl. 260—31.8.
Kirkland, Helen C. Egg separator. 3,058,501, 10–16–62, Cl. 146—2.
Kirkland, Joseph F. Parking garage. 3,055,517, 9–25–62, Cl. 214—16.1.
Kirkland, Terence G., to Allis-Chalmers Mfg. Co. Process for the direct reduction of oxidic ores. 3,068,091, 12–11–62, Cl. 75—36.
Kirkman, Fredrick J., to Servel, Inc. Electric hand lamp. 3,015,179, 1–2–62, Cl. 240—10.63.
Kirkman, James C., to Jorgenson & Co. Advertising display. 3,030,718, 4–24–62, Cl. 40—128.
Kirkpatrick, Craig G.: *See*—
Novy, Virgil F., and Kirkpatrick. 3,038,824.
Kirkpatrick, George M., to United States of America, Army. Monopulse radar system. 3,064,253, 11–13–62, Cl. 343—16.
Kirkpatrick, James S., and F. E. Krause, to Brooks and Perkins, Inc. Method for making thin spherical shells. 3,044,166, 7–17–62, Cl. 29—538.
Kirkpatrick, John G., and F. Revell, to Koppers Co., Inc. Apparatus for high pressure polymerization of polymerizable materials. 3,053,640, 9–11–62, Cl. 23—284.
Kirkpatrick, Keith. Towing hitch with control for steering towed vehicles. 3,053,551, 9–11–62, Cl. 280—444.
Kirkpatrick, Leland W., and E. Reusch, to Rich Mfg. Corp. Self adjusting valve guide. 3,037,494, 6–5–62, Cl. 123—188.
Kirkpatrick, Maurice C., to American Cyanamid Co. Heat-reflective light-transmitting panel. 3,068 753, 12–18–62, Cl. 88—57.5.
Kirkpatrick, Max B., to Alkirk, Inc. Motion transmitting mechanism having planetary gearing. 3,065,651, 11–27–62, Cl. 74—674.
Kirkpatrick, Willard H., and V. L. Seale, to Nalco Chemical Co. Processes for breaking petroleum emulsions. 3,042,625, 7–3–62, Cl. 252—342.
Kirkpatrick, Willard H., V. L. Seale, and H. C. Noe, Jr., to Nalco Chemical Co. Corrosion inhibitors and methods of preparation and use thereof. 3,047,495, 7–31–62, Cl. 252—8.55.
Kirkpatrick, Willard H., and V. L. Seale, to Nalco Chemical Co. Sulfated oil soluble phenol formaldehyde polymers. 3,049,511, 8–14–62, Cl. 260—49.
Kirkpatrick, Willard H., V. L. Seale, and A. W. Church, to Nalco Chemical Co. Esters of polyoxyethylated glycerides of castor oil. 3,061,620, 10–30–62, Cl. 260—404.8.
Kirkup, Richard P., to Specialties Development Corp. Cable element support. 3,054,586, 9–18–62, Cl. 248—74.
Kirkwood, Albert L. Auxiliary box for vehicles. 3,055,709, 9–25–62, Cl. 298—1.
Kirkwood, George B., and J. H. Greene, to Texaco Inc. Corrosion inhibition. 3,036,903, 5–29–62, Cl. 44—56.
Kirn, Thomas G., to Eastman Kodak Co. Hinge structure. 3,062,399, 11–6–62, Cl. 220—31.
Kirsch, Francis W., to Houdry Process Corp Upgrading natural gasoline. 3,016,344, 1–9–62, Cl. 208—79.
Kirschenbauer, Hans G., to Colgate-Palmolive Co. Abrasive cleaning composition. 3,032,622, 7–3–62, Cl. 252—99.
Kirschenbauer, Hans G., to Colgate-Palmolive Co. Detergent composition. 3,042,621, 7–3–62, Cl. 252—99.
Kirschmann, John D. Cultivator apparatus for sub-soil operation. 3,052,307, 9–4–62, Cl. 172—253.
Kirschstein, Ervin B. Ice cutter. 3,036,644, 5–29–62, Cl. 175—18.
Kirshenbaum, David. Paint can attachment. 3,016,169, 1–9–62, Cl. 222—192.
Kirshenbaum, David, and S. Rubinsky; said Rubinski assor. to said Kirshenbaum. Paint roller. 3,060,555, 10–30–62, Cl. 29—117.
Kirshenbaum, Isidor: *See*—
Barnett, Jeffrey H., Kirshenbaum, Banes, and Muessig. 3,023,185.
Kirshenbaum, Isidor, S. B. Mirviss, and E. J. Inchalik, to Esso Research and Engineering Co. Production of higher aluminum alkyls. 3,030,402, 4–17–62, Cl. 260—448.
Kirshenbaum, Isidor, C. W. Muessig, and R. M. Hill, to Esso Research and Engineering Co. Hydroxylation of elastomers. 3,042,661, 7–3–62, Cl. 260—83.3.
Kirshner, Howard A., and M. S. Silverstein. Self controlled means of obtaining a prescheduled pressure-time relationship. 3,066,486, 12–4–62, Cl. 60—39.13.
Kirst, Werner: *See*—
Dreyer, Ulrich, and Kirst. 3,058,974.
Kracker, Herbert, Bauer, and Kirst. 3,037,974.
Kirst, William E.: *See*—
Davis, Clyde O., Fassnacht, Kirst, and Noren. 3,052,578.
Kirst, William E., to E. I. du Pont de Nemours and Co. Explosive composition. 3,026,221, 3–20–62, Cl. 149—39.
Kirstahler, Alfred: *See*—
Boller, Carl, Gündel, and Kirstahler. 3,019,123.
Strauss, Wennemar, Gundel, Kirstahler, and Willmund. 3,030,283.
Kirsten, Bernd. Combined knob and dial. 3,065,728, 11–27–62, Cl. 116—124.
Kirsten, Berndt. Combined knob and dial. 3,065,729, 11–27–62, Cl. 116—124.
Kirsten, Erhard. Hydraulically actuated cranes. 3,044,635, 7–17–62, Cl. 212—55.
Kirsten, Frederick A., to United States of America, Atomic Energy Commission. Phase differential indicating circuit. 3,016,475, 1–9–62, Cl. 315—84.6.
Kirsten, Gerhard H., and J. F. Tesch, to General Motors Corp. Vibration measuring apparatus. 3,027,758, 4–3–62, Cl. 73—71.4.
Kirsten, Hugo R. Restraining straps for operating tables. 3,063,447, 11–13–62, Cl. 128—134.
Kis, George, and M. H. Murphy, to Packard-Bell Electronics Corp. Monoscopic range finder. 3,035,176, 5–15–62, Cl. 250—210.
Kisch, Kenneth N.: *See*—
Leibowitz, Alec. 3,063,921.
Kiser, Richard D., ½ to D. L. Schubert, and ½ to Industrial Development Co. Inc. Method of flaking wood and rotary tunnel flaker therefor. 3,059,676, 10–23–62, Cl. 144—230.
Kish, George D., to Dresser Industries, Inc. Process of bonding a bituminous enamel protective coating to a suitable base such as metallic pipes and pipe couplings. 3,024,130, 3–6–62, Cl. 117—75.
Kishbaugh, Warren E., to The Bendix Corp. Electrical connector with grounding strip. 3,015,794, 1–2–62, Cl. 339—14.
Kishel, John J., to Kearfott Co., Inc. Multi-vehicular azimuth alignment computer. 3,056,290, 10–2–62, Cl. 73—178.
Kishel, John J., and C. I. Tiplitz, to General Precision Inc. Astatic balance device. 3,054,294, 9–18–62, Cl. 73—386.
Kishi, Jajime J.: *See*—
Sharin, Samuel, Sheridan, Liguori, and Kishi. 3,055,978.
Kishi, Kanesuke, K. Nakatsuru, and H. Kawakami, to Sony Kabushikikikaisha (Sony Corp.). Pipe microphone. 3,053,-389, 9–11–62, Cl. 181—31.
Kisling, James W., III, to Schlumberger Well Surveying Corp. Earth formation fluid sampler. 3,022,826, 2–27–62, Cl. 166—100.
Kispersky, John P.: *See*—
Klager, Karl, and Kispersky. 3,041,382.
Kiss, Agoston Z.: *See*—
Amiss, Charles H., and Kiss. 3,030,484.
Kiss, Ferenc: *See*—
Barabas, Janos, Zselyonka, Kiss, and Libik. 3,046,837.
Kissel, Martin S., to Fullman Mfg. Co. Electrical outlet box. 3,027,416, 3–27–62, Cl. 174—57.
Kissel, Thomas L.: *See*—
Koch, Gilbert H., Herwig, and Kissel. 3,044,879.

Kissell, Elwood L.: *See*—
Gummere, Harold O., and Kissell. 3,029,978.
Kissh, Stephen J., to R. Hoe & Co., Inc. Housing seal for rotary folding cylinder. 3,056,601, 10–2–62, Cl. 270—70.
Kissman, Henry M.: *See*—
Holmlund, Chester E., Feldman, Kissman, and Weiss. 3,047,569.
Weiss, Martin J., Poletto, and Kissman. 3,069,417.
Kissman, Henry M., A. M. Hoffman, and M. J. Weiss, to American Cyanamid Co. 2*a*-cyano or 2-hydroxymethylene-3-keto steroids. 3,035,051, 5–15–62, Cl. 260—239.55.
Kissman, Henry M., A. M. Hoffman, and M. J. Weiss, to American Cyanamid Co. 16-cyano steroids, intermediates and method of preparing the same. 3,047,568, 7–31–62, Cl. 260—239.55.
Kissner, Robert L.: *See*—
Lerner, Irwin S., and Kissner. 3,034,114.
Kister, Michel. Devices for distributing one by one foils placed in a stack. 3,055,658, 9–25–62, Cl. 271—29.
Kistler Instrument Corp.: *See*—
Kistler, Walter P. 3,020,767.
Kistler, Walter P., to Kistler Instrument Corp. Linear accelerometer. 3,020,767, 2–13–62, Cl. 73—497.
Kistner, Werner. Device for winding cotton wool fleece and wadding. 3,058,685, 10–16–62, Cl. 242—56.7.
Kistner, Harold E., Sr. Fermentation of sucrose by aspergillus flavus oryzae. 3,043,748, 7–10–62, Cl. 195—36.
Kistner, Harold J., and J. J. Pajerek, to International Business Machines Corp. Card feed apparatus. 3,015,484, 1–2–62, Cl. 27—41.
Kisumi, Masahiko: *See*—
Chibata, Ichiro, Kisumi, and Ashikaga. 3,058,888.
Kitabayashi, Seiichi. Device for emitting agglutinative material. 3,033,473, 5–8–62, Cl. 239—579.
Kitabayashi, Seiichi. Device for emitting painting material. 3,061,203, 10–30–62, Cl. 239—337.
Kitada, Kohshiro. Method for the manufacture of a mold for centrifugal casting tubular metal articles. 3,056,692, 10–2–62, Cl. 117—5.3.
Kitano, Hisao: *See*—
Fiku, Kenichi, and Kitano. 3,037,979.
Kitasaki, Kiyoshi: *See*—
Hunter, Don L., Kitasaki, and Willcockson. 3,028,411.
Kitashiro, Hiroshi. Throwaway razor. 3,054,181, 9–18–62, Cl. 30—32.
Kitchell, Thorne C., to Union Bag-Camp Paper Corp. Load supporting pallet. 3,036,802, 5–29–62, Cl. 248—120.
Kitchen, Morrison G., and D. J. Schaffer, to The Bendix Corp. Acceleration limiting device for use with hydromechanical fuel metering systems. 3,021,891, 2–20–62, Cl. 158—36.4.
Kitchens, Garry C., and T. F. Wood, to The Givaudan Corp. Process for the preparation of isobutyrate esters. 3,057,914, 10–9–62, Cl. 260—488.
Kitscha, Hector, to Cutler-Hammer, Inc. Electrical connectors. 3,050,706, 8–21–62, Cl. 339—246.
Kitselman, Harry L., to Indiana Steel & Wire Co., Inc. Machine for making helixes. 3,051,202, 8–28–62, Cl. 140—90.
Kitson, Harold, Jr.: *See*—
Keane, John J., and Kitson. 3,043,903.
Kitsopoulos, George N. Multiple purpose chair. 3,028,196, 4–3–62, Cl. 297—116.
Kittel, Francis W. B., to The British Oxygen Co. Ltd. Catheters. 3,034,510, 5–15–62, Cl. 128—349.
Kittel, Hermann, and W. Schellig, to Kienzle Apparate G.m.b.H. Adding apparatus. 3,066,866, 12–4–62, Cl. 235—173.
Kittel, John H., and J. F. Schumar, to United States of America, Atomic Energy Commission. Protected nuclear fuel element. 3,067,116, 12–4–62, Cl. 204—154.2.
Kittel, Walter. Device for the single or repeated mixing and subsequent unmixing of two media in countercurrent. 3,028,151, 4–3–62, Cl. 261—155.
Kittel, Walter. Contact plate structure for use in a rectifying or contacting column. 3,039,750, 6–19–62, Cl. 261—144.
Kittel, Walter. Contacting apparatus for rectifying and contacting columns. 3,039,752, 6–19–62, Cl. 261—148.
Kittel, Walter. Contact plate arrangement for contact columns. 3,045,989, 7–24–62, Cl. 261—114.
Kitterman, Gary L. Locking structure. 3,020,070, 2–6–62, Cl. 287—54.
Kittle, Keith B.: *See*—
Meli, Joseph P., Wright, Kittle, and Simpson. 3,068,717.
Kittle, Keith B., and W. E. Richter, to Manning, Maxwell & Moore Inc. Integrated trolley hoist. 3,033,383, 5–8–62, Cl. 212—135.
Kittleman, Robert H., to United States of America, Navy. Torpedo steering system. 3,063,396, 11–13–62, Cl. 114—23.
Kittleman, Robert H., to United States of America, Navy. Torpedo steering and anti-circular run device. 3,067,710, 12–11–62, Cl. 114—24.
Kittler, Milton J., to Holley Carburetor Co. Float hinge adapter. 3,034,529, 5–15–62, Cl. 137—315.
Kittredge, George W., and W. E. Heronemus, to United States of America, Navy. Submarine escape device. 3,045,622, 7–24–62, Cl. 114—16.7.
Kittredge, Howard S., and P. J. McLaughlin. Machine and method for removing rind from molded objects. 3,040,630, 6–26–62, Cl. 90—11.
Kittrell, Richard L., J. Luik, and J. D. Welch, to Collins Radio Co. Duo-transistor amplitude and frequency sensitive electronic switch. 3,038,089, 6–5–62, Cl. 301—88.5.
Kitzke, Eugene D., to S. C. Johnson & Son, Inc. Composition and process for treating potatoes. 3,051,578, 8–28–62, Cl. 99—154.
Kivell, Glenn H.: *See*—
Mounce, George R., and Kivell. 3,050,242.
Kivell, Wayne A. Liquid clarifying apparatus. 3,025,966, 3–20–62, Cl. 210—520.
Kivell, William J., to Monroe Auto Equipment Co. Fluid actuated frictional damping device. 3,047,283, 7–31–62, Cl. 267—9.
Kiwi, Walter, to R. H. Hood Co. Conveyors for machines. 3,017,985, 1–23–62, Cl. 198—170.
Kizaur, Arthur J., and E. A. Labus, to General Electric Co. X-ray apparatus. 3,037,119, 5–29–62, Cl. 250—91.
Kizaur, Arthur J., R. J. Mueller, and M. Skrobish, to General Electric Co. Serialographic or spot film apparatus. 3,069,544, 12–18–62, Cl. 250—66.
Kjelgaard, Bayard L., to Endicott Johnson Corp. Machine for punching coded tape. 3,045,518, 7–24–62, Cl. 83—146.
Kjell-Berger, Sven O. K.: *See*—
Anderberg, Bo I., and Kjell-Berger. 3,032,836.
Kjellman, Thomas K.: *See*—
Cerny, Rudolph J., and Kjellman. 3,030,598.
Kjellmark, Eric W., Jr., to E. I. du Pont de Nemours and Co. Increasing viscosity of polycaprolactam by removing extractables with solvents and further solid phase polymerizing the polymer. 3,015,651, 1–2–62, Cl. 260—78.
Klaar, Albert, and O. Wank, to Anker-Phoenix Nahmaschinen A.G. Zigzag sewing machine with automatic motif-frequency control. 3,055,324, 9–25–62, Cl. 112—158.
Klaassen, Antonius C., to N.V. Fabriek Van Electrische Apparaten Voorheen J. Hazenmeijer & Co. High-voltage circuit-breaker. 3,017,480, 1–16–62, Cl. 200—146.
Klaassens, Klaas H.: *See*—
Schoot, Cornelis J., Klaassens, and Ponjee. 3,045,050.
Schoot, Cornelis J., Klaassens, and Ponjee. 3,060,193.
Klackner-Hutte Bremen AG: *See*—
Frasch, Harald, and Kuwertz. 3,057,454.
Kladde, Gerhard A., to United Aircraft Corp. Shiftable range mark generator for radarscope. 3,036,225, 5–22–62, Cl. 307—88.5.
Klaessig, Henry, J. Pennie, and F. E. Clay, to The Borden Co. Process for heating liquids. 3,018,185, 1–23–62, Cl. 99—216.
Klager, Karl: *See*—
Frankel, Milton B., and Klager. 3,029,285.
Frankel, Milton B., and Klager. 3,031,492.
Klager, Karl, to Aerojet-General Corp. Polynitro alcohols and salts thereof. 3,020,317, 2–6–62, Cl. 260—632.
Klager, Karl, to Aerojet-General Corp. Polynitro alcohol and its preparation. 3,024,288, 3–6–62, Cl. 260—635.
Klager, Karl. Diethylamines. 3,038,939, 6–12–62, Cl. 260—583.
Klager, Karl, and G. B. Linden, to Aerojet-General Corp. Preparing 2,2-dinitro-1,3-propanediol. 3,020,319, 2–6–62, Cl. 260—635.
Klager, Karl, and J. P. Kispersky, to Aerojet-General Corp. Method of preparing 2,2,4,4-tetranitro-1,5-pentanediol. 3,041,382, 6–26–62, Cl. 260—635.
Klages, Christian L., and J. O. Sullivan, to Wesson Corp. Boring bar. 3,018,675, 1–30–62, Cl. 77—58.
Klages, John W., to The Columbus Auto Parts Co. Bucket bail and extrusion. 3,015,412, 1–2–62, Cl. 220—91.
Klahn, Stanley: *See*—
Klahn, William R. 3,053,368.
Klahn, William R., ½ to S. Klahn. Roller conveyor tables and the like. 3,053,368, 9–11–62, Cl. 193—35.
Klaiban, Titus B. Measuring gauge and guide for radial arm saw tools. 3,069,751, 12–25–62, Cl. 33—185.
Klamer, Reuben B.: *See*—
Blonder, Howard, and Klamer. 3,057,466.
Klammer, Adolph W. Combined cutlery storage and dispensing device. 3,028,048, 4–3–62, Cl. 221—93.
Klamp, Paul, to Mechanical Handling Systems, Inc. Floor truck type sub-floor conveyor system. 3,015,284, 1–2–62, Cl. 104—172.
Klamp, Paul, to Mechanical Handling Systems, Inc. Retarder mechanism for free conveyor line. 3,020,854, 2–13–62, Cl. 104—249.
Klamp, Paul, to Mechanical Handling Systems, Inc. Control mechanism for conveyor system. 3,024,741, 3–13–62, Cl. 104—172.
Klamp, Paul. Toys. 3,038,724, 6–12–62, Cl. 273—98.
Klamp, Paul, to Mechanical Handling Systems, Inc. Sub-floor conveyor system. 3,045,610, 7–24–62, Cl. 104—88.
Klamp, Paul, and R. Kramer, to Mechanical Handling Systems, Inc. Sub-floor conveyor system. Re. 25,245, 9–25–62, Cl. 104—88.
Klamp, William, to Cleveland Detroit Corp. Label activator. 3,057,987, 10–9–62, Cl. 219—19.
Klampon Thread Protector: *See*—
Hauk, Ernest D., and Turley. 3,038,502.
Klancke, John H.: *See*—
Anderson, Glenn R., and Klancke. 3,016,869.
Klancnik, Adolph V. Machine tools. 3,025,838, 3–20–62, Cl. 121—45.
Klank, Walter C., Jr., to United Aircraft Products, Inc. Liquid storage tank. 3,049,138, 8–14–62, Cl. 137—38.
Klank, Walter C., Jr., and P. R. Hughes, to United Aircraft Products, Inc. Vented liquid storage tank with priority system of supply. 3,016,912, 1–16–62, Cl. 137—43.

Klapka, Karl J.: *See*—
Pickard, Albert F., Klapka, and Catallo. 3,035,647.
Klapp, Arnold: *See*—
Zellerhoff, Bruno, and Klapp. 3,036,906.
Klapper, William R., to Phillips Petroleum Co. Latex coagulation technique 3,024,223, 3–6–62, Cl. 260—85.1.
Klappert, Helmut: *See*—
Rösch, Georg, Klappert, and Gehringer. 3,063,779.
Rösch, Georg, Klappert, and Gehringer. 3,063,780.
Wolf, Walther, Rosch, Degener, Klappert, and Petersen. 3,058,991.
Klapproth, John F., to General Electric Co. Thrust augmenting means for aircraft. 3,028,121, 4–3–62, Cl. 244—23.
Klapproth, John F., to General Electric Co. Flow diverting mechanism. 3,035,791, 5–22–62, Cl. 244—12.
Klapproth, John F., to General Electric Co. Thrust augmenting powerplant for aircraft. 3,035,792, 5–22–62, Cl. 244—23.
Klar, Paul-Gerhard. Package sealing machine. 3,068,933, 12–18–62, Cl. 156—367.
Klarberg, Betty: *See*—
Cohen, Elliott, and Klarberg. 3,065,235.
Klaren, Cornelis, and J. Minnema. Selector valve. Re. 25,248, 10–2–62, Cl. 137—625.11.
Klasek, Frank A.: *See*—
Bohaboy, Edward J., Klasek, and Mannisto. 3,048,328.
Klasing, Charles L., Jr., to Klasing Hand Brake Co. Sealed non-spin hand brake mechanism. 3,027,985, 4–3–62, Cl. 192—16.
Klasing Hand Brake Co.: *See*—
Klasing, Charles L., Jr. 3,027,985.
Smith, Raymond K. 3,020,099.
Smith, Raymond K. 3,020,100.
Klassen, Willis G., ½ to E. Graham. Apparatus for directional drilling of wells. 3,045,767, 7–24–62, Cl. 175—76.
Klatchko, George A., to Curtiss-Wright Corp. Nondestructive testing apparatus. 3,022,660, 2–27–62, Cl. 73—67.8.
Klatchko, George A., to Curtiss-Wright Corp. Nondestructive testing apparatus. 3,044,291, 7–17–62, Cl. 73—67.8.
Klatt, John O.: *See*—
Cunningham, Fred A., Klatt, Brown, and Slovacek. 3,019,746.
Cunningham, Fred A., Klatt, Brown, and Slovacek. 3,020,162.
Klatt, Melvin H.: *See*—
Smith, Gerald C., Wiatrek, and Klatt. 3,029,614.
Klauder Weldon Giles Machine Co.: *See*—
Bell, Robert M., and Horswood. 3,063,281.
Klaue, Hermann. Disc brakes, more particularly for motor vehicles. 3,044,579, 7–17–62, Cl. 188—72.
Klaue, Hermann. Track-laying vehicle having a hydraulically operated clutch-shifted and reversing transmission. 3,044,589, 7–17–62, Cl. 192—3.5.
Klaue, Hermann, to Brevets Aero-Mecaniques S.A. Track-laying vehicles, and in particular to armored vehicles. 3,053,333, 9–11–62, Cl. 180—9.2.
Klaus, Donald R. Paper folding apparatus. 3,057,621, 10–9–62, Cl. 270—68.
Klaus, Ernst M. Foam support. 3,023,863, 3–6–62, Cl. 189—37.
Klaus, Ernst M., to Betonbau G.m.b.H. Form support. 3,062,341, 11–6–62, Cl. 189—37.
Klaus, Richard M., and G. E. Moore, to Dover Corp. Torsional spring balance unit. 3,038,714, 6–12–62, Cl. 267—1.
Klaus, Sidney D. Method for locating hidden wall studs. 3,048,925, 8–14–62, Cl. 33—169.
Klauser, Hans: *See*—
Bretscher, Max, Farner, Isch, and Klauser. 3,068,468.
Klausmann, Milton H., H. J. Brucker, and A. J. O'Lenick, to Seal-Spout Corp. Spout inserting machine. 3,025,813, 3–20–62, Cl. 113—1.
Klauss, Ralph E.: *See*—
Gentile, Ralph, and Klauss. 3,057,516.
Klauss, Ralph E., and P. F. Sigl, to Eastman Kodak Co. Photographic print chopper clutch mechanism. 3,067,848, 12–11–62, Cl. 192—48.
Klavon, Joseph A., Jr., to Kelsey-Hayes Co. Automatic brake adjuster. 3,049,192, 8–14–62, Cl. 188—79.5.
Klawitter, Joseph P. Fish lure retrievers. 3,037,315, 6–5–62, Cl. 43—42.02.
Kleb, Karl G.: *See*—
Wecemeyer, Karlfried, Kleb, Dortmann, and Delfs. 3,066,005.
Klebsch, Karl F.: *See*—
Bialy, Michael, and Klebsch. 3,067,442.
Klecker, Raymond W.: *See*—
Holl, Richard J., Klecker, and Graham. 3,034,977.
Kleckner, Loyal W. Jet reaction turbine. 3,032,988, 5–8–62, Cl. 60—39.35.
Klee, Werner, to Herbert Ludwig. Shoe last for use in vulcanizing presses. 3,068,524, 12–18–62, Cl. 18—46.
Kleeberger, Rudolf: *See*—
Staege, Werner, Schenk, and Kleeberger. 3,064,579.
Kleekamm, Fritz, and E. Siggel, to Vereinigte Glanzstoff-Fabriken A.G. Process for the production of low-shrinkage polyethylene terephthalate threads. 3,018,608, 1–30–62, Cl. 57—157.
Kleemann, Alois, and R. Roggero, to J. R. Geigy, A.-G. Anticorrosive compositions. 3,034,907, 5–15–62, Cl. 106—14.
Kleemann's Vereinigte Fabriken: *See*—
Koch, Wilhelm. 3,035,697.
Kleen-Stik Products, Inc.: *See*—
Gustafson, Eric W. 3,043,365.
Kleer-Site Corp.: *See*—
Gray, Robert A., Lamb, and Mandel. 3,048,878.
Kleesattel, Claus: *See*—
Balamuth, Lewis, and Kleesattel. 3,047,955.
Balamuth, Lewis, Kuris, and Kleesattel. 3,053,124.
Kuris, Arthur, Balamuth, and Kleesattel. 3,051,027.
Kleesattel, Claus, A. Kuris, and L. Balamuth, to Cavitron Ultrasonic Inc. Ultrasonic multistation or gang welding. 3,053,125, 9–11–62, Cl. 78—82.
Kleesattel, Claus, L. Balamuth, and A. Kuris, to Cavitron Ultrasonics Inc. Method and apparatus for cleaning porous objects. 3,056,698, 10–2–62, Cl. 134—1.
Kleesattel, Claus, L. Balamuth, and A. Kuris, to Cavitron Ultrasonics Inc. Methods and means for driving small diameter shafts at high rotational speeds. 3,058,218, 10–16–62, Cl. 32—27.
Kleespies, Ernst K.: *See*—
Wong, Morton M., and Kleespies. 3,016,296.
Klehr, Kenneth. Pressurized friction joint for hand luggage. 3,054,551, 5–15–62, Cl. 150—1.6.
Kleid, Boris. Self-contained combined closure and liquid dispensing unit. 3,048,308, 8–7–62, Cl. 222—484.
Kleijn, Machiel K.: *See*—
Cuperus, Jacob L. A., and Kleijn. 3,067,543.
Kleiman, Morton. Method for protecting apples. 3,034,904, 5–15–62, Cl. 99—154.
Kleimeyer, Vernon T., to The Cincinnati Time Recorder Co. Secondary clock synchronizing mechanism. 3,028,722, 4–10–62, Cl. 58—35.
Klein, Albert M., to International Telephone and Telegraph Corp. Vehicle suspension and stabilizing system. 3,035,853, 5–22–62, Cl. 280—124.
Klein, Alfred W.: *See*—
Lippart, John, and Klein. 3,062,949.
Klein, Arthur F., to American Cyanamid Co. Oil-in-water emulsions. 3,047,353, 7–31–62, Cl. 8—86.
Klein, Charles H., to The National Telephone Supply Co. Hot line stick. 3,017,905, 1–23–62, Cl. 140—113.
Klein, Clarence F.: *See*—
Liman, Norman, and Klein. 3,602,429.
Linda, Frank R., Klein, and Bickley. 3,056,665.
Klein, Edmund F.: *See*—
Edwards, Walter G., Hudson, and Klein. 3,042,305.
Edwards, Walter G., and Klein. 3,054,988.
Klein, Edward, to Quaker Stretcher Co. Combined rack and table structure. 3,017,034, 1–16–62, Cl. 211—2.
Klein, Edward P.: *See*—
Hunt, Frederick C., and Klein. 3,018,541.
Klein, Ernst. Valve bags. 3,040,967, 6–26–62, Cl. 229—62.5.
Klein, Eugene A.: *See*—
Clenard, Alfred E., Hawley, and Klein. 3,039,951.
Klein, George J., C. L. Fischer, and E. S. Turner, to National Research Council. Vascular positioning method and device. 3,040,748, 6–26–62, Cl. 128—334.
Klein, George M., to The Norwich Pharmacal Co. 1-[3-(5-nitro-2-furyl)-2-propen - 1 - ylideneamino]-2-imidazolidinethione. 3,041,334, 6–26–62, Cl. 260—240.
Klein, Gerald I., and M. J. Ungar, to United States of America, Navy. Apparatus and method for pulse hum measurements. 3,046,477, 7–24–62, Cl. 324—57.
Klein, Harold L., The Mosaic Tile Co. Tile positioning machine. 3,033,739, 5–8–62, Cl. 156—561.
Klein, Harry J. Line-gripping and spacing device. 3,043,902, 7–10–62, Cl. 174—146.
Klein, Howard, and R. Kapp, to Nopco Chemical Co. Process for the recovery of 7-dehydrosterols. 3,032,562, 5–1–62, Cl. 260—397.2.
Klein, Howard, and R. Kapp, to Nopco Chemical Co. 7-dehydrosterols. 3,037,996, 6–5–62, Cl. 260—397.2.
Klein, Howard C., to Nopco Chemical Co. α-hydroxy-β,β-dimethyl-γ-butyrolactone and a process for producing same. 3,024,250, 3–6–62, Cl. 260—343.6.
Klein, Howard C., to Nopco Chemical Co. Process for producing 2 - (1.1 - dimethyl - 2 - hydroxyethyl) - 5.5 - dimethyl-1,3-dioxane. 3,057,877, 10–9–62, Cl. 260—340.7.
Klein, Joseph J.: *See*—
Struthers, William H. 3,046,004.
Klein, Karl, and F. Pongracz; said Klein assor. to said Pongracz. Feed collet for single and multiple-spindle automatic machine tools, turret lathes, precision lathes and the like machine tools. 3,019,027, 1–30–62, Cl. 279—30.
Klein Leonard: *See*—
Kuzell, Charles R., Fowler, Davis, Klein, and MacDougall. 3,051,467.
Kuzell, Charles R., Fowler, Davis, Klein, Uren, and Macdougall. 3,023,454.
Klein, Martin L., H. C. Morgan, and A. Goudey, to North American Aviation, Inc. High speed low level switching device. 3,017,582, 1–16–62, Cl. 332—14.
Klein, Martin L., and J. S. Sutton, to North American Aviation, Inc. Pulse transmission system. 3,056,949, 10–2–62, Cl. 340—174.1.
Klein, Morton J.: *See*—
Gavlin, Gilbert, Klein, and Maguire. 3,019,251.
Hattori, Kiyoshi, Finn, and Klein. 3,038,943.
Solomon, Irvine J., Klein, and Hattori. 3,053,899.
Klein, Norman E., to Deering Milliken Research Corp. Method of forming and rejuvenating bobbins. 3,023,494, 3–6–62, Cl. 29—401.

Klein, Norman E., to Deering Milliken Research Corp. Strand tensioning and metering apparatus. 3,041,815, 7–3–62, Cl. 57—58.3.
Klein, Norman E., to Deering Milliken Research Corp. Method and apparatus for handling strands. 3,066,472, 12–4–62, Cl. 57—58.3.
Klein, Oscar R. Animal simulating bicycle. 3,017,193, 1–16–62, Cl. 280—1.14.
Klein, Peter M., to Natser Corp., d.b.a. Acco Products. Filing device. 3,061,090, 10–30–62, Cl. 206—65.
Klein, Robert S. Water ski. 3,031,697, 5–1–62, Cl. 9—310.
Klein, Schanzlin & Becker Aktiengesellschaft: *See*—
Buschhorn, Walther, and Stein. 3,060,861.
Klein, Siegfried, to Commissariat a l'Energie Atomique. Apparatus for ionising a gas to obtain high intensity pulsed ions or electrons. 3,015,745, 1–2–62, Cl. 313—63.
Klein, Walter A., and H. A. Lincoln, to The Dow Chemical Co. Apparatus for dusting surfaces. 3,028,834, 4–10–62, Cl. 118—309.
Klein, Walter W., Jr., to California Research Corp. Variable density display for seismic data. 3,025,123, 3–13–62, Cl. 346—34
Klein, Walter W., Jr., to California Research Corp. Apparatus for generating sine and cosine functions. 3,038,661, 6–12–62. Cl. 235—189.
Klein, Werner, to Telefunken G.m.b.H. Beam centering device for travelling wave tubes. 3,052,808, 9–4–62, Cl. 313—84.
Kleinhan, Williiam A., and J. G. Wirsig, to Minnesota Mining and Mfg Co. Fill-resistant flexible abrasive sheet. 3,043,673, 7–10–62. Cl. 51—298.
Klein, William F. Moisture indicating device. 3,019,638, 2–6–62, Cl. 73—73.
Kleine, Norbert, M. Matthes, and W. Mueller, to Fritz Hellige & Co., G.m.b.H. Method and apparatus for measuring the surface tension of liquids. 3,068,687, 12–18–62, Cl. 73—53.
Kleine, Rudolph W., to C.R.O. Engineering Co. Inc. Method of manufacturing track shoes. 3,035,946, 5–22–62, Cl. 148—28.
Kleine, Rudolph W., to C.R.O. Engineering Co., Inc. Automatic flame igniter. 3,065,382, 11–20–62, Cl. 317—83.
Kleinekathofer, Felix. Method of manufacturing filamentary structures. 3,018,610, 1–30–62, Cl. 57—157.
Kleiner, Rudolph B., and J. Zarcone. Drum head auxiliary unit. 3,026,759, 3–27–62, Cl. 84—411.
Kleiner, Walter B., and O. Kardos, to Hanson-Van Winkle-Munning Co. Electrodeposition of nickel. 3,041,256, 6–26–62, Cl. 204—49.
Kleinewefers, Joh., Sohne: *See*—
Freyberg, Adolf. 3,019,631
Linkesem, Karl-Heinz. 3,063,368.
Kleinfelder, Walter C.: *See*—
Graff, Harry J., Kleinfelder, and Schwartz. 3,064,072.
Kleinfelter, Stuart M.: *See*—
Drake, Robert W., and Kleinfelter. 3,051,369.
Kleingers, Alfred B., Jr., to The Interstate Folding Box Co. Cushioned end closure device for cartons. 3,036,754, 5–29–62, Cl. 229—39.
Kleinguenther, Robert A. Projectile for firearms. 3,065,696, 11–27–62, Cl. 102—51.
Kleinhample, Edward J.: *See*—
Drapac, Michael J., Kleinhample, and Pappas. 3,035,232.
Kleinhans, Herbert F., to Pawling Rubber Corp. Resilient caulking seal. 3,061,895, 11–6–62, Cl. 20—56.4.
Kleinhof, Ferdinand. Floor connection for toilet bowls. 3,037,215, 6–5–62, Cl. 4—252.
Kleinke, Cyrus. Garment construction. 3,038,164, 6–12–62, Cl. 2—108.
Kleinman, Jacob L. Washing machine with ironing board. 3,022,589, 2–27–62, Cl. 38—104.
Kleinman, Mitchell: *See*—
Sayre, Paul L., Dieckman, and Kleinman. 3,039,627.
Kleinschmidt, Albert A. Device for moving mattresses and other articles. 3,047,305, 7–31–62, Cl. 280—36.
Kleinschmidt, Hans-Joachim, to Gelenkwellenbau G.m.b.H. Rubber spring. 3,020,036, 2–6–62, Cl. 267—1.
Kleinschmidt, Hans-Joachim, to Geienkwellenbau G.m.b.H. Pivot bearing for universal joints especially for use in connection with universal joint shafts. 3,020,110, 2–6–62, Cl. 308—212.
Kleinschmidt, Hans-Joachim, to Gelenkwellenbau G.m.b.H. Rubber elastic coupling for universal joint shafts and the like. 3,054,276, 9–18–62, Cl. 64—27.
Kleinschmidt, Johann O., to International Standard Electric Corp. Bistable trigger circuit. 3,036,221, 5–22–62, Cl. 307—88.
Kleinschmidt, Roger F.: *See*—
Mahan, John E., and Kleinschmidt. 3,028,438.
Osborn, Charles W., and Kleinschmidt. 3,022,152.
Kleinsteuber, Alfred T.: *See*—
McCorkle, Kenneth H., Kleinsteuber, Schilling, and Dean. 3,035,895.
Kleinwald, William M. Embroidery. 3,040,332, 6–26–62, Cl. 2—278.
Kleis, Derk, to North American Philips Co., Inc. Sound reproduction with artificial reverberation. 3,024,309, 3–6–62, Cl. 179—1.
Kleis, Derk, to North American Philips Co., Inc. Echo effect recording. 3,036,164, 5–22–62, Cl. 179—100.2.
Kleis, Derk, and R. Vermeulen, to North American Philips Co., Inc. Sound reproduction system. 3,015,701, 1–2–62, Cl. 179—100.1.
Kleis, Derk, and J. Snoek, to North American Philips Co., Inc. Stereophonic sound collecting device. 3,070,658, 12–25–62, Cl. 179—1.
Kleiss, Louis D., to Phillips Petroleum Co. Process controller. 3,020,490, 2–6–62, Cl. 330—85.
Kleiss, Louis D., and N. F. McLeod, to Phillips Petroleum Co. Extractive distillation control. 3,050,450, 8–21–62, Cl. 202–160.
Kleist, Dale: *See*—
Slayter, Games, Snow, Russell, and Kleist. 3,026,563.
Kleist, Dale, to Owens-Corning Fiberglas Corp. High output radiant heater for a glass fiber forming apparatus. 3,019,477, 2–6–62, Cl. 18—2.5.
Kleist, Dale, to Owens-Corning Fiberglas Corp. Apparatus for centrifuging fibers. 3,059,454, 10–23–62, Cl. 18—2.6.
Kleist, Robert A., to General Precision, Inc. Signalling system. 3,036,295, 5–22–62, Cl. 340—258.
Kleist, Robert A., and C. S. Jones, to General Precision, Inc. Responder device. 3,018,475, 1–23–62, Cl. 343—6.8.
Kleist, Robert A., and C. S. Jones, to General Precision, Inc. Interrogator-responder signalling system. 3,022,492, 2–20–62, Cl. 340—171.
Klekhaefer, Elmer C., to Klekhaefer Corp. Water cooled outboard mounted marine propulsion device with corrosion prevention. 3,046,930, 7–31–62, Cl. 115—17.
Klem, Thomas. Combination cigarette package and lighter case. 3,063,552, 11–13–62, Cl. 206—41.4.
Klem, William J.: *See*—
Brogan, Thomas F., and Klem. 3,053,140.
Klemantaski, Sidney, T. W. Johnson, and J. M. Ridgion, to The British Iron and Steel Research Assn. Processing of metallic ores. 3,028,231, 4–3–62, Cl. 75—38.
Klemchuk, Peter P., to Esso Research and Engineering Co. Carbonylation of monoolefins with carbon monoxide and water in the presence of hydrogen and a cobalt catalyst. 3,064,040, 11–13–62, Cl. 260—514.
Klement, Jones Metal, Inc. Aluminum bronze alloy and method having improved wear resistance. 3,025,-158, 3–13–62, Cl. 75—162.
Klement, John F., to Ampco Metal, Inc. Aluminum bronze alloy containing vanadium and having improved wear resistance. 3,062,642, 11–6–62, Cl. 75—162.
Klemm, Edwin O.: *See*—
Mulholland, George K., and Klemm. 3,033,523.
Klemm, Herman G., to Massey-Ferguson Inc. Fuel tank mounting. 3,067,829, 12–11–62, Cl. 180—1.
Klemm, Herman G., W. A. Wathen, and M. H. Peterson, to Massey-Ferguson Inc. Apparatus for forming pellets of hay or the like under field conditions. 3,038,419, 6–12–62, Cl. 107—8.
Klemmer, Jacob W., to Milwaukee Electric Tool Corp. Power driven shear. 3,032,876, 5–8–62, Cl. 30—241.
Klemp, Gustav. Apparatus for applying, distributing and smoothing plastic material to a wall surface. 3,035,776, 5–22–62, Cl. 239—186.
Klemperer, Hans, to Apra Precipitator Corp. Electrostatic precipitator circuits. 3,049,848, 8–21–62, Cl. 55—105.
Klemt, Gunter, and K. Macher, to Jos. Schneider & Co. Wide-angle photographic or cinematographic objective. 3,016,-799, 1–16–62, Cl. 88—57.
Klemt, Günter, and K. Macher, to Jos. Schneider & Co., Optische Werke. High-speed photographic or cinemateographic varifocal objective. 3,057,257, 10–9–62, Cl. 88—57.
Klenk, August: *See*—
Zepf, Ernst L. 3,065,542.
Klenk, Ernst, H. Debuch, H. Eikermann, and G. Lappe, nee Reuter. Process for the production of natural phospholipids and substances produced thereby. 3,031,478, 4–24–62, Cl. 260—403.
Klenke, Edward F., Jr., to E. I. du Pont de Nemours and Co. Preparation of sulfonated phthalocyanines. 3,041,347, 6–26–62, Cl. 260—314.5.
Klenke, Gerald H.: *See*—
Bach, Chester C., Clark, Drukker, Klenke, Lenk, and Runge. 3,016,448.
Klepp, George F., to International Standard Electric Corp. Electric discharge tube. 3,029,364, 4–10–62, Cl. 315—336.
Klepper, Herbert: *See*—
Abbott, William B., and Klepper. 3,069,000.
Klepper, Herbert, and W. B. Abbott, to Mergenthaler Linotype Co. Distributor shifter for linecasting machines. 3,068,-998, 12–18–62, Cl. 199—33.
Klepper, Walton S. Outboard engine control. 3,036,476, 5–29–62, Cl. 74—472.
Klepper-Werke, Firma: *See*—
Ertl, Alfred, and Hermann. 3,049,731.
Klevers, Ernst, to Kienzle Apparate G.m.b.H. Method and arrangement for transposing coded decimal values from storage to visual presentation in decimal notation. 3,053,-173, 9–11–62. Cl. 101—93.
Klickstein, Bertha F.: *See*—
Klickstein, Maurice E. and B. F. 3,053,230.
Klickstein, Maurice E. and B. F. Safety harness. 3,053,230, 9–11–62. Cl. 119—96.
Kliesch, Günter, to Siemens-Schuckertwerke Aktiengesellschaft. Rectifier plant with monocrystalline semiconductor cells. 3,068,391, 12–11–62, Cl. 321—8.

Kliever, Waldo H. Binary scale reading system. 3,034,113, 5–8–62, Cl. 340—345.

Kliger, Jack: *See*—
Cicchetti, John B., and Kliger. 3,028,597.

Kliklok Corp.: *See*—
Baker, Thomas R., and Nemoede. 3,067,924.

Klima, Stanley J., and F. E. Niechniedowicz, to Sperry Rand Corp. Process of manufacturing metalized plastic microwave lens. 3,049,464, 8–14–62, Cl. 156—245.

Kliman, Merwin, and S. Kass, to Sperry Rand Corp. Compiementing apparatus. 3,021,518, 2–13–62, Cl. 340—347.

Klimek, Marcel, Jr. Electrically operated winch for a crane. 3,048,371, 8–7–62, Cl. 254—187.

Klimkowski, Robert J., and E. A. Kahn, to Eugene Dietzgen Co. Production of light-sensitive diazotype materials. 3,027,256, 3–27–62, Cl. 96—49.

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Klimstra, Paul D., and R. E. Counsell, to G. D. Searle & Co. 17-oxygenated 3α-halo-5α-androstan-2β-ols and derivatives thereof. 3,018,298, 1–23–62, Cl. 260—397.4.

Kline, Albert K. Oil well cementing shoe. 3,053,322, 9–11–62, Cl. 166—184.

Kline, Charles M., to Sperry Rand Corp. Conveyor construction. 3,031,064, 4–24–62, Cl. 198—66.

Kline, Charles M., and W. Hobbs, Jr., to Sperry Rand Corp. Retractable elevator for grain bin. 3,034,667, 5–15–62, Cl. 214—17.

Kline, Clifford W., and W. R. Bennett, to The Dow Chemical Co. Purification of crude thorium sulfate. 3,047,359, 7–31–62, Cl. 23—14.5.

Kline, Donald D.: *See*—
Van Der Meer, Adolf J., and Kline. 3,030,492.

Kline, Granville B., to Eli Lilly and Co. Preparation of DL-ornithine. 3,028,424, 4–3–62, Cl. 260—534.

Kline, James A., to General Dynamics Corp. Ratio safety valve. 3,038,450, 6–12–62, Cl. 121—38.

Kline, Milton W., R. B. Dean, and S. Loshaek, to The Borden Co. Polymeric amides from polymeric acrylic acid esters and n-aminoalkyl alkanol amines and reaction product therefrom. 3,069 390, 12–18–62, Cl. 260—72.

Kline, Ralph W.: *See*—
Niblack, Robert L., and Kline. 3,026,209.

Kline, Richard M., and K. R. Pitcher. Compressed fluid-operated small arms weapon. 3,048,159, 8–7–62, Cl. 124—51.

Kling, August J. Methods for preparing thin sheets from powder material. 3,045,289, 7–24–62, Cl. 18—57.

Kling, Dorothy H. Key closure. 3,019,635, 2–6–62, Cl. 70—456.

Kling, John D., to Minneapolis-Honeywell Regulator Co. Control apparatus. Re. 25,212, 7–31–62, Cl. 137—98.

Kling, Olaf E.: *See*—
Jorgenson, John P., and Kling. 3,069,739.

Kling, Robert, Wetzlar Gesellschaft mit beschrankter Haftung, Firma: *See*—
Bauer, Horst. 3,054,648.

Klingberg, William A., to American Foundry & Furnace Co. Louver type damper. 3,049,985, 8–21–62, Cl. 98—110.

Klingele, Hugo. Marine hoist. 3,025,984, 3–20–62, Cl. 214—394.

Klingelhofer, Frederick C.: *See*—
Johnson, Clas E., and Klingelhofer. 3,027,966.

Klingenberg, Alfred S., to Bell Telephone Laboratories, Inc. Swaging tool. 3,016,083, 1–9–62, Cl. 153—81.

Klingenberg, Hans U. Waterproof watch casing. 3,030,763, 4–24–62. Cl. 58—90.

Klingensmith, Ira: *See*—
Overkamp, William A., Jr., Kraus, and Klingensmith. 3,044,015.

Klinger, Guenther H., to General Aniline & Film Corp. Photographic silver halide emulsions containing thioethers of saturated oxygen heterocycles as stabilizers and antifoggants. 3,068,099, 12–11–62, Cl. 96—63.

Klinger Mfg. Co. Ltd., The: *See*—
Gilchrist, Reginald S., and Mattingly. 3,040,511.
Mattingly, Denis A. E., and Gilchrist. 3,018,974.

Klingler, Emil, and W. Dawihl, to Feldmuhle Papier- und Zellstoffwerke A.G. Sintered product consisting of an aluminum oxide lattice and a metallic component filling the interstices of the lattice. 3,032,427, 5–1–62, Cl. 106—43.

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Klingler, Karl A. Journal stop for railroad car axles. 3,027,204, 3–27–62, Cl. 308—38.

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Klingler, Karl A. Means for retaining the brass in a journal box and limiting lateral journal movement. 3,033,617, 5–8–62, Cl. 308—79.

Klingler, Karl A. Car axle journal lubricator. 3,035,877, 5–22–62, Cl. 308—91.

Klingler, Karl A. Control mechanism. 3,044,314, 7–17–62, Cl. 74—131.

Klingler, Karl A. Seal for inboard axle journal box. 3,059,940, 10–23–62, Cl. 277—182.

Klingler, Karl A. Extension seal. 3,060 754, 10–30–62, Cl. 74—18.2.

Klingler, Karl H.: *See*—
Kohlstaedt, Erwin, and Klingler. 3,029,239.

Klingler, Karl H., to Chemiewerk Homburg, Zewignlederlassung der Deutschen Gold- und Silber-Scheideanstalt, vorm. Roessler (Degussa). Preparation of 1-(β-hydroxypropyl)-theobromine. 3,063,234, 11–20–62, Cl. 260—256.

Klingler, Karl-Heinz: *See*—
Kohlstaedt, Erwin, and Klingler. 3,046,275.

Klingler, Martin L., to AMP Inc. Hydraulic pump-up tool. 3,030,838, 4–24–62, Cl. 81—15.

Klingler, Martin L., to AMP Inc. Compressing member. 3,030,870, 4–24–62, Cl. 100—176.

Klingler, Martin L., to AMP Inc. Compressing member. 3,053,112, 9–11–62, Cl. 74—585.

Klingler, Martin L., to AMP Inc. Hydraulic tool. 3,070,143, 12–25–62, Cl. 153—1.

Klingler, Martin L., and W. R. Over, to AMP Inc. Belted terminal crimping tool. 3,037,545, 6–5–62, Cl. 153—1.

Klingsporn, Carl. Method for the frequency tuning of piezoelectric crystal oscillators. 3,028,262, 4–3–62, Cl. 117—107.

Klink, John D., and F. H. Justin, to The Dow Chemical Co. Fabrication of cellular plastic bodies. 3,060,513, 10–30–62, Cl. 18—59.

Klink, John D., and F. H. Justin, to The Dow Chemical Co. Process for treating and drying polymeric substances. 3,070,588, 12–25–62, Cl. 260—94.9.

Klinkhamer, Jacob F.: *See*—
Heijn, Herman J., Klinkhamer, Samwel, and De Miranda.

Klinkhamer, Jacob F., to North American Philips Co., Inc. Arrangement in automatic signalling systems for establishing signal connections. 3,015,697, 1–2–62, Cl. 179—18.

Klino, Fred. Crutch. 3,034,524, 5–15–62, Cl. 135—50.

Klint, Bernard C., to Ny-Lint Tool & Mfg. Co. Toy white side wall tire. 3,048,447, 8–7–62. Cl. 301—63.

Klint, Robert V., to General Electric Co.. Compression-expansion air cycle for clothes dryers. 3,031,771, 5–1–62, Cl. 34—77.

Klint, Robert V., and R. S. Owens, to General Electric Co. Dry lubricant ball-type bearing with non-rotating balls. 3,051,535, 8–28–62, Cl. 308—240.

Klocke, David E., and V. J. Ryszewski, to Chrysler Corp. Idler arm ball joint. 3,053,556, 9–11–62, Cl. 287—87.

Klockgether, Helfried: *See*—
Ossenbrunner, Armin, and Klockgether. 3,022,171.
Ossenbrunner, Armin, Klockgether, and Kruck. 3,025,163.
Ossenbrunner, Schnell, Klockgether, Geiger, and Freier. 3,023,101.

Klockner-Humboldt-Dent Aktiengesellschaft: *See*—
Lux, Rudolf, and Salzmann. 3,052,255.

Klockner-Humboldt-Deutz Aktiengesellschaft: *See*—
Deussner, Herbert. 3,037,757.
Kloss, Richard. 3,019,778.
Kloss, Richard. 3,020,903.
Schreyer, Karl, and Gaudich. 3,027,448.
Tholen, Paul. 3,027,705.

Klockner-Huttenwerk Haspe AG.: *See*—
Melchior, Alexander. 3,056,269.

Klockner-Werke A.G.: *See*—
Asbeck, Werner. 3,028,114.
Hardt, Paul E. 3,034,885.

Kloepfer, Harry, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Process of forming solid cakes and pellets from metal oxide aerogels. 3,033,801, 5–8–62, Cl. 252—459.

Kloepfer, Harry, A. Frey, E. Meyer-Simon, and R. Schrauf, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Production of alkali metal zirconium silicates. 3,027,230, 3–27–62, Cl. 23—110.

Klompas, Nicholas, to Orenda Engines Ltd. Mounting mechanism for labyrinth seal disc. 3,019,035, 1–30–62, Cl. 285—18.

Kloosterziel, Hendrik: *See*—
Van Dijck, Willem J. D., and Kloosterziel. 3,050,451.

Klopfer, Oskar E. H., to Ethyl Corp. Process for preparing manganese carbonyl hydride. 3,031,260, 4–24–62, Cl. 23—14.

Klopfer, Oskar E. H., to Ethyl Corp. Oxo synthesis and catalysts therefor. 3,050,562, 8–21–62, Cl. 260—598.

Klopp, Friedrich. Hydrostatic driving mechanisms. 3,036,528, 5–29–62, Cl. 103—161.

Klopp, James W., and J. Smith, to United States of America, Navy. Release mechanism for ejecting sea survival equipment from ditched or crashed aircraft. 3,043,263, 7–10–62, Cl. 116—124.

Klos, William A.: *See*—
Helmke, Kermit W., and Klos. 3,017,137.

Klosa, Josef. Caffeino-8-isopropyl-phenylamine. 3,063,998, 11–13–62, Cl. 260—256.

Klosek, Felix P.: *See*—
Spence, Sydney P., Grover, Klosek, and Nicolson. 3,069,434.

Klosek, Joseph, and A. Zorn, to Oriskany Garage, Inc. Vehicle for towing and transporting loads. 3,043,458, 7–10–62, Cl. 214—505.

Kloss, Hans J.: *See*—
Mentz, Otto, and Kloss. 3,015,340.

Kloss, Henry E., to K & K Mfg., Inc. Automatic milk food mixer and suckling animal feeder. 3,037,481, 6–5–62, Cl. 119—71.

Kloss, Richard, to Klockner-Humboldt-Deutz Aktiengesellschaft. Four-cycle internal combustion engine with exhaust brake. 3,019,778, 2–6–62, Cl. 123—97.
Kloss, Richard, to Klockner-Humboldt-Deutz Aktiengesellschaft. Air compressing fuel injection internal combustion engine. 3,020,903, 2–13–62, Cl. 123—142.5.
Kloster, William G. Adjusting pin. 3,048,904, 8–14–62, Cl. 22—110.
Kloszewski, Edward. Skid chain. 3,056,444, 10–2–62, Cl. 152—221.
Klothen, Irving: *See*—
Upham, Sidney, and Klothen. 3,023,105.
Klothen, Irving, to American Cyanamid Co. Stabilization of antibiotics in feeds and feed supplements. 3,019,109, 1–30–62, Cl. 99—2.
Klotz, Charles R. Spring clip for mounting building panels. 3,044,583, 7–17–62, Cl. 189—34.
Klotz, Herman J.: *See*—
Droege, Frederick J., Klotz, and Marcus. 3,024,980.
Klotz, Lyell J., to Lloyd Bros., Inc. Gelatin capsule containing calcium dioctyl sulfosuccinate. 3,035,973, 5–22–62, Cl. 167—56.
Klouse, Walter F.: *See*—
Crehan, William J., Klouse, and Talmey. 3,065,535.
Klover, John M., W. E. Melber, and M. E. Moore, to The Garrett Corp. Servo valve. 3,029,830, 4–17–62, Cl. 137—82.
Kluber Lubrication Ges. m.b.H.: *See*—
Flick, Willy, Hohlweg, and Umhofer. 3,066,873.
Kluck, Louis. Casing centralizer. 3,044,554, 7–17–62, Cl. 166—241.
Kluck, Louis. Combination well bore and casing cleaner. 3,068,941, 12–18–62, Cl. 166—173.
Kluck, Otto. Arrangement on cases for records to facilitate the placing thereof on record players. 3,070,223, 12–25–62, Cl. 206—62.
Kludt, Jonathan, to The McNeil Machine & Engineering Co. Lubricant-gun follower packing. 3,038,768, 6–12–62, Cl. 277—212.
Kluemmerer, Henry R., to Deering Milliken Research Corp. Sizing textile yarns. 3,061,470, 10–30–62, Cl. 117—138.8.
Klug, Eugene D., to Hercules Powder Co. Preparation of hydroxyalkyl starches. 3,033,853, 5–8–62, Cl. 260—233.3.
Klug, Eugene D., and W. D. Roberson, to Hercules Powder Co. Water-soluble cellulose ethers and process. 3,049,537, 8–14–62, Cl. 260—232.
Klug, Helmut: *See*—
Nolte, Friedrich, Klug, Orthner, and Herzberg. 3,035,038.
Peters, Heinrich, Schleede, Jochinke, and Klug. 3,025,-262.
Klug, William J., Jr., to Johnson & Johnson. Stabilized polymeric strand reinforced pressure sensitive adhesive tapes. 3,024,152, 3–6–62, Cl. 156—178.
Kluge, Herman D.: *See*—
Arnold, George B., Kluge, Schlicht, and Smolin. 3,017,-430.
Schlicht, Raymond C., and Kluge. 3,057,896.
Wiley, Morris A., and Kluge. 3,055,829.
Kluge, Herman D., J. W. Wisner, Jr., and R. G. Lacoste, to Texaco Inc. Process for preparing salts of hydrocarbon-phosphorus sulfide reaction products. 3,017,405, 1–16–62, Cl. 260—139.
Kluge, Herman D., K. L. Kreuz, and M. A. Wiley, to Texaco Inc. Lubricating oil containing oil concentrate of an alkaline earth metal complex. 3,069,355, 12–18–62, Cl. 252—18.
Klüge, Renate: *See*—
Görner, Wolfgang, and Klüge. 3,050,246.
Kluge, Robert D., to Minneapolis-Honeywell Regulator Co. Photographic flash unit. 3,049,611, 8–14–62, Cl. 240—1.3.
Kluge, Robert W., to Cornell Aeronautical Laboratory, Inc. Ram jet projectile. 3,024,729, 3–13–62, Cl. 102—49.
Kluge, Robert W., to Cornell Aeronautical Laboratory, Inc. Combination rocket and ram jet power plant. 3,038,408, 6–12–62, Cl. 102—49.
Kluiber, Rudolph W., to Union Carbide Corp. Chelate polymers from tetraketones. 3,035,019, 5–15–62, Cl. 260—47.
Kluiber, Rudolph W., to Union Carbide Corp. Polymerization process for vinyl cyanides. 3,067,181, 12–4–62, Cl. 260—85.5.
Klumb, Harvey A., to Taylor Instrument Companies. Strip chart transport mechanism. 3,029,036, 4–10–62, Cl. 242—67.2.
Klumb, Harvey A.: *See*—
Jaquith, Howard R., and Klumb. 3,030,928.
Klumb, Harvey A., G. E. Heller, to Taylor Instrument Companies. Exhibiting or control means. 3,044,069, 7–10–62, Cl. 346—17.
Klumpp, Theodore G., J. E. Wolff, and L. L. Kaplan, to Sterling Drug Inc. Salicylate dry shell coating of dry 4-aminoquinoline core, and dry-compressing tablet-making process. 3,019,169, 1–30–62, Cl. 167—82.
Klun, Godfrey H.: *See*—
Carmichael, Robert, Spanur, and Klun. 3,069,489.
Klun, Godfrey H., to Union Carbide Corp. Film dispensing carbon. 3,034,690, 5–15–62, Cl. 225—19.
Klüpfel, Kurt-Walter: *See*—
Süs, Oskar, Klüpfel, Neugebauer, Tomanek, and Behmenburg. 3,041,165.
Kluz, Stanley: *See*—
Yntema, Leonard F., and Kluz. 3,047,419.
Klygis, Mindaugas J., to Inland Steel Co. Locking ring for a removable drum head. 3,022,103, 2–20–62, Cl. 292—256.67.
Klym, Mary L. Slipper. 3,024,543, 3–13–62, Cl. 36—9.
Kmetz, Joseph: *See*—
Warrick, Edward C., Holtz, and Kmetz. 3,064,487.
Kmiecik, Leopold J., and L. W. Kaczmarek, to McDonnell & Miller, Inc. Boiler control system. 3,049,145, 8–14–62, Cl. 137—44.
Kmiecik, Leopold J., and E. H. Stonich, to McDonnell & Miller, Inc. Low water cut-off device. 3,064,095, 11–13–62, Cl. 200—84.
Kmiecik, Thaddeus J.: *See*—
Brown, Alvin M., Ayers, Shields, Maloney, and Kmiecik. 3,020,854.
Brown, Alvin M., Ayers, Shields, Maloney, and Kmiecik. 3,049,992.
Knafo, Guy, R. Fuhrmann, T. E. Neesby, and V. K. Babayan; said Babayan assor. to Drew Chemical Corp. Preparation of sugar esters. 3,021,324, 2–13–62, Cl. 260—234.
Knandel, George J., and J. A. Krecek, to Bell Telephone Laboratories, Inc. Telegraph switching system. 3,036,-150, 5–22–62, Cl. 178—2.
Knanishu, Sander L. Insulated shorting plug and mating electrical sockets. 3,045,077, 7–17–62, Cl. 200—46.
Knapic, Dean D., to Knapic Electro-Physics, Inc. Rotating pedestal. 3,020,131, 2–6–62, Cl. 23—273.
Knapic, Dean D., to Knapic Electro-Physics, Inc. Crystal growing furnace. 3,057,703, 10–9–62, Cl. 23—301.
Knapic Electro-Physics, Inc.: *See*—
Knapic, Dean D., 3,020,131
Knapic, Dean D. 3,057,703.
Knapmeyer, Gilbert B., to McGraw-Edison Co. Brake controller. 3,068,966, 12–18–62, Cl. 188—170.
Knapp, Andrew S., to Knapp Monarch Co. Cooler lid assembly. 3,035,733, 5–22–62, Cl. 220—15.
Knapp, Andrew S., to Knapp Monarch Co. Cutting and mixing blades for liquefiers. 3,036,614, 5–29–62, Cl. 146—68.
Knapp, Andrew S., to Knapp-Monarch Co. Steam and spray iron. 3,038,269, 6–12–62, Cl. 38—77.
Knapp, Andrew S., to Knapp Monarch Co. Folding cot. 3,045,257, 7–24–62, Cl. 5—111.
Knapp, Arthur D., S. J. Fiabiano, and H. V. McGuire. Apparatus for controlling the depth of etching. 3,032,753, 5–1–62, Cl. 340—267.
Knapp, Earle L., to Armco Steel Corp. Method and apparatus for treating metallic strands in hot dip coating. 3,018,190, 1–23–62. Cl. 117—51.
Knapp, Earle L., to Armco Steel Corp. Coating control device. 3,060,889, 10–30–62, Cl. 118—63.
Knapp, Elwood F.: *See*—
Hitt, Otis D., Knapp, Johnson, and Rosenblum. 3,018,673.
Knapp, George A., to R. E. Dietz Co. Vibration-impact proof vehicle lamp. 3,067,326, 12–4–62, Cl. 240—41.5.
Knapp, Gordon G.: *See*—
Knapp, Harold D., Knapp, and Worrel. 3,060,121.
Knapp, Guenther: *See*—
Monaghan, Ralph, Wilson, and Knapp. 3,019,338.
Knapp, Heinrich: *See*—
Paule, Kurt, Knapp, Zechnall, and Schutte. 3,051,152.
Knapp, Helmut, to American Messer Corp. Rare gas recovery process. 3,037,359, 6–5–62, Cl. 62—22.
Knapp, James G.: *See*—
Palma, Joseph, Jr., and Knapp. 3,026,554.
Knapp, Kenneth W.: *See*—
Borck, Charles A., and Knapp. 3,056,925.
Borck, Charles A., and Knapp. 3,056,926.
Knapp Mills Inc.: *See*—
Knapp, Victor E., and Ritchey. 3,061,923.
Knapp-Monarch Co.: *See*—
Dafforn, Kenneth B., and Maholm. 3,025,005.
Hennis, Earl S., and Maholm. 3,023,932.
Herbig, Eugene O. 3,060,566.
Huck, Alfred J. Re. 25,146.
Huck, Alfred J. 3,024,432.
Huck, Alfred J. 3,051,401.
Huffman, Russell I. 3,032,060.
Huffman, Russell I., and Maholm. 3,027,915.
Knapp, Andrew S. 3,035,733.
Knapp, Andrew S. 3,036,614.
Knapp, Andrew S. 3,038,269.
Knapp, Andrew S. 3,045,257.
Knapp, Robert S. 3,061,148.
Knapp, Robert S. 3,064,740.
Maholm, Kenneth C. 3,064,287.
Visos, Charles D. 3,032,424.
Visos, Charles D. 3,051,074.
Knapp, Phillip M., to Aircraft Armaments, Inc. Photoelectric hit detector system. 3,047,723, 7–31–62, Cl. 250—222.
Knapp, Richard P.: *See*—
Winfrey, James W., Knapp, and Hove. 3,064,829.
Knapp, Richard P., to Jersey Production Research Co. Offshore structure. 3,064,437, 11–20–62, Cl. 61—46.5.
Knapp, Richard P., and A. M. Rigg, to Jersey Production Research Co. Method and apparatus for locating submarine wells and lowering well tools into said wells. 3,027,951, 4–3–62, Cl. 175—10.
Knapp, Robert S., to Knapp-Monarch Co. Inflatable bag. 3,061,148, 10–30–62, Cl. 222—5.

Knapp, Robert S., to Knapp-Monarch Co. Thermal-responsive bulb. 3,064,740, 11–20–62, Cl. 169—26.
Knapp, Rufus R.: *See*—
Selby, Ernest E., and Knapp. 3,022,247.
Knapp, Victor E., and N. F. Ritchey, to Knapp Mills Inc. Method of making composite sheets. 3,061,923, 11–6–62, Cl. 29—487.
Knapp, William E., and W. V. Lohrman, to Deere & Co. Harrows. 3,016,958, 1–16–62, Cl. 172—639.
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Knapp, William J., to General Dynamics Corp. Method of treating an alumina ceramic article with lithium borate. 3,049,447, 8–14–62, Cl. 117—169.
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Schmidt, Josef, Schneider, Thiersch, Knappstein, Stuhrmann, Eickemeyer, and Voll. 3,054,728.
Knapsack-Griesheim Aktiegesellschaft: *See*—
Bretschneider, Otto, Bender, and Jaekel. 3,017,263.
Buteunth, Gunter, and Meltendorf, 3,039,852.
Ebert, Hans, Ritter, Harmsen, and Grapentin. 3,067,006.
Gemmer, Erwin. 3,063,860.
Michel, Josef M. 3,032,435.
Rodis, Franz, Hartlapp, and Beltz. 3,023,083.
Rodis, Franz, and Hinz. 3,035,301.
Schallus, Erich, and Götz. Re. 25,218.
Sennewald, Kurt, Born, Erpenbach, and Dobek. 3,022,-332.
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Sennewald, Kurt, Wolfram, Kolb, Sievers, and Hoyer. 3,057,916.
Thomas, Friedrich, Rodis, and Hinz. 3,067,857.
Vogt, Wilhelm, and Gehrmann. 3,047,638.
Vogt, Wilhelm, Gehrmann, and Sennewald. 3,048,639.
Vogt, Wilhelm, Gehrmann, and Sennewald. 3,067,241.
Vogt, Wilhelm, Weiden, Gehrmann, and Sennewald. 3,015,677.
Zager, Kurt, and Rumberg. 3,059,039.
Knapsic Electro-Physics, Inc.: *See*—
Babcock, Gordon L. 3,024,400.
Knapton, Earl J. Fishline sinker assemblage. 3,030,726, 4–24–62, Cl. 43—44.93.
Knapton, Earl J. Fishing lure. 3,040,468, 6–26–62, Cl. 43—42.23.
Knauert, William F. Bone-conduction all-in-one transistor amplifier hearing aid. 3,030,456, 4–17–62, Cl. 179—107.
Knauf, Alfons N., to N. W. Knauf. Process for producing construction elements of any shape. 3,047,457, 7–31–62, Cl. 162—174.
Knauf, Harry V., Jr., and G. M. Rose, Jr., to Radio Corp. of America. Assembling device for electron tubes. 3,068,825, 12–18–62, Cl. 113—99.
Knauf, Nikolaus W.: *See*—
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Knauf, Wilhelm, to Franke & Heidecke, Fabrik Photographischer Praziskons-Apparate. Carrying case for photographic cameras. 3,052,273, 9–4–62, Cl. 150—52.
Knaus, Lionel, to Reed and Knaus, Inc. Tools. 3,027,977, 4–3–62. Cl. 188—65.1.
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Knaust, Herbert. Apparatus for cooling ore sinter and sinter material. 3,052,988, 9–11–62, Cl. 34—54.
Knauth, Berthold A., to Rotron Mfg. Co., Inc. Synchronous torque amplifier. 3,053,085, 9–11–62, Cl. 73—229.
Knauth, Julius T., to Jersey Production Research Co. Prevention of erosion of flow tubings in oil and gas wells. 3,070,166, 12–25–62, Cl. 166—46.
Knauth, Walter T. Means for measuring and recording liquid density. 3,044,302. 7–17–62, Cl. 73—434.
Knecht, Eugene L.: *See*—
Benbow, Eugene C., and Knecht. 3,059,181.
Knecht, Forrest E. Heat exchanger (fluid cooler) tube plug. 3,020,929. 2–13–62. Cl. 138—89.
Knecht, Forrest E., E. Schwartz, R. B. Nicholas, Jr., and A. Baker, to United States of America, Navy. Valve member for high pressure valve. 3,059,894, 10–23–62, Cl. 251—121.
Knecht, Ludwig, to Maschinenfabrik Augsburg-Nurnberg A.G. Pipe line valve. 3,070,345, 12–25–62. Cl. 251—212.
Knecht, Robert S. Helicopter-reaction tip brake. 3,015,363, 1–2–62, Cl. 170—135.4.
Knecht, Siegfried: *See*—
Schmermund, Alfred, Beermann, and Knecht. 3,040,862.
Knecht, Werner, and M. Studlein, to Werner & Pfleiderer, G.m.b.H. Rotary dough kneading machine. 3,049,084, 8–14–62. Cl. 107—9.
Knedlik, Omar S. Process for the preparation of a beverage. 3,044,878, 7–17–62, Cl. 99—28.
Knees, Lawrence E.: *See*—
Adams, Pierrepont, and Knees. 3,042,639.
Kneidl, Franz A., and H. G. Beattie, to Avco Corp. Self-purging starting fuel nozzles for gas turbine engines. 3,016,705, 1–16–62, Cl. 60—39.74.
Kneisel, Otto, to Siemens and Halske Aktiengesellschaft Berlin and Munich. Electronic switching in signalling systems. 3,035,124, 5–15–62, Cl. 179—18.
Kneisley, Russell E., N. E. Hypes, and D. L. Flory, to The National Cash Register Co. Selective amount transfer control mechanism for accounting machines. 3,047,219, 7–31–62, Cl. 235—60.3.
Knell, Martin: *See*—
Kroll, Harry, Simonian, and Knell. 3,038,793.
Knell, Martin, and H. Kroll, to Geigy Chemical Corp. Substituted ethylenediamine compounds having aromatic rings. 3,028,407, 4–3–62, Cl. 260—439.
Knerr, Carl J., and C. R. Waldrop, to Borg-Warner Corp. Drive assembly. 3,057,218, 10–9–62, Cl. 74—242.9.
Knerr, Carl J., and W. E. Harlow, to Borg-Warner Corp. Liquid additive dispensers for washing machines. 3,068,-679, 12–18–62, Cl. 68—207.
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Knickerbocker Co.: *See*—
Ramsey, Keith E. 3,064,761.
Knickmeyer, Kenton H., to International Business Machines Corp. Counter. 3,033,454, 5–8–62, Cl. 235—155.
Knictel, Robert E. Kaleidoscopes. 3,039,356, 6–19–62, Cl. 88—15.
Kniel, Ludwig, to The Lummus Co. Ethylene purification. 3,055,183, 9–25–62, Cl. 62—17.
Kniepkamp, Heinrich, and G. Rosenberger, to Siemens & Halske Aktiengesellschaft. Method of producing rod-shaped bodies of crystalline silicon for semiconductor devices and semiconductor bodies obtained therefrom. 3,063,811, 11–13–62, Cl. 23—223.5.
Kniff, August A., to Tru-Scale Models, Inc. Railroad track turnout. 3,017,503. 1–16–62, Cl. 246—415.
Kniffin, Walter G.: *See*—
Frei, Arthur J., and Kniffin. 3,039,277.
Kniffin, Walter G., to General Motors Corp. Ice block making and harvesting. 3,025,682, 3–20–62, Cl. 62—340.
Kniffin, Walter G., to General Motors Corp. Ice maker control system. 3,046,754, 7–31–62, Cl. 62—135.
Kniffin, Walter G., to General Motors Corp. Ice making apparatus. 3,059,445, 10–23–62, Cl. 62—135.
Knight, Basil E., to C.A.V. Ltd. Means for minimising risk of seizure of rotary spindles in bearings. 3,026,157, 3–20–62, Cl. 308—237.
Knight, Chesterton S.: *See*—
Knight, Anthony W., and Knight. 3,039,288.
Knight, Edward J., Jr.: *See*—
Jensen, Raymond W., Knight, and Marlin. 3,063,239.
Knight, Geo., & Co., Inc.: *See*—
Broadbent, Robert K. 3,048,864.
La Borre, Anthony W., and Knight. 3,039,288.
Knight, H. P.: *See*—
Guinn, J. Edwin. 3,049,841.
Knight, Harmon M.: *See*—
McAlister, Charles G., Lee, and Knight. 3,053,869.
Knight, Harmon M., and J. T. Kelly, to Standard Oil Co. Salt hydrate-BF_3-HgX_2 catalyst. 3,024,204, 3–6–62, Cl. 252—433.
Knight, Harmon M., and J. T. Kelly, to Standard Oil Co. Polymerization of olefins with metal salt hydrate-BF_3 complex. 3,030,433, 4–17–62, Cl. 260—680.
Knight, Harmon M., and J. T. Kelly, to Standard Oil Co. Ethylene polymerization process. 3,066,131, 11–27–62, Cl. 260—94.9.
Knight, Henry D., to Associated Electrical Industries Ltd. Electric discharge device. 3,037,141, 5–29–62, Cl. 313—193.
Knight, Henry D., to Associated Electrical Industries, Ltd. Electric discharge devices. 3,051,863, 8–28–62, Cl. 313—189.
Knight Hogan B.: *See*—
Swern, Daniel, and Knight. 3,049,504.
Knight, Houston W., to Chicksan Co. Fluid discharge nozzle. 3,017,124 1–16–62, Cl. 239—456.
Knight, John L. Envelope construction. 3,015,438, 1–2–62, Cl. 235—61.12.
Knight, John R., to International Business Machines Corp. Remote reader system. 3,028 081, 4–3–62, Cl. 235—61.11.
Knight, John R., to Interpational Business Machines Corp. Electromagnetic display device. 3,036,300, 5–22–62, Cl. 340—373.
Knight, Kenneth K.: *See*—
Wenzel, William J., and Knight. 3,026,676.
Knight, Kenneth K., and W. J. Wenzel. Accumulator device for a flexible element. 3,017,130, 1–16–62, Cl. 242—47.09.
Knight, Leslie J.: *See*—
Ashley, James W., and Knight. 3,016,765.
Knight, Lloyd K., to The Jeffrey Mfg. Co. Renewable tip hammer assembly. 3,022,018, 2–20–62, Cl. 241—197.
Knight, Lorin: *See*—
Rubinstein, Harvey, and Knight. 3,048,706.
Knight, Mark B., and J. J. Thompson, to Radio Corp. of America. Grid mounts for electron tubes. 3,041,495, 6–26–62, Cl. 313—350.
Knight, Roy E.: *See*—
Bernor, Nelson W., and Knight. 3,063,315.
Knight, Sidney and E., to Instructomatic, Inc. Language laboratory. 3,069,789. 12–25–62, Cl. 35—35.
Knight, Stanley G., to Wisconsin Alumni Research Foundation. Conversion of steroids with mold spores. 3,031,379, 4–24–62, Cl. 195—51.
Knight, Stanley G., to Wisconsin Alumni Research Foundation. Fermentation process using spore forming fungi. 3,031,382, 4–24–62 Cl. 195—101.
Knight, Stanley G., to Wisconsin Alumni Research Foundation Method of alleviating topical fungal infections. 3,070,497, 12–25–62, Cl. 167—58.

Knight, Stanley W. Drive and reversing mechanism for endless conveyors. 3,051,298, 8–28–62, Cl. 198—203.
Knight, William J. Drinking fountain attachment for water faucets. 3,062,452, 11–6–62, Cl. 239—25.
Knightly, William H., to Atlas Chemical Industries, Inc. Fluid emulsifier for ice cream. 3,017,276, 1–16–62, Cl. 99—136.
Knights, James, Co., The: *See*—
Dick, Louis A., and Martyn. 3,069,572.
Knights, Joseph W.: *See*—
Pinkham, Douglas R., and Knights. 3,064,867.
Knights, Richard N., to Dowty Rotol Ltd. Earth boring equipment. 3,029,488, 4–17–62, Cl. 24—263.
Knights, Richard N., to Dowty Rotol Ltd. Make-up and break-out mechanism for drill pipe joints. 3,041,901, 7–3–62, Cl. 81—53.
Knights, Richard N., to Dowty Rotol Ltd. Reciprocating pumps. 3,064,582, 11–20–62, Cl. 103—44.
Knill, Raymond R., A. L. McLaughlin, F. J. Priesnitz, L. S. Conder, and R. G. Haworth, to Potash Co. of America. Portable conveyor unit. 3,019,890, 2–6–62, Cl. 198—233.
Knipp, Ulrich, to Farbenfabriken Bayer Aktiengesellschaft. Gear pumps and motors. 3,015,283, 1–2–62, Cl. 103—126.
Knippenberg, Henry: *See*—
Fabian, Francis G., Jr., Mann, Knippenberg, and Wainerdi. 3,049,617.
Knippenberg, Wilhelmus F.: *See*—
Van Daal, Hubert J., Knippenberg, and Huizing. 3,047,439.
Knipping, Rainer H. Garbage and rubbish incinerator system. 3,057,308, 10–9–62, Cl. 110—8.
Knipschild, Fred. Apparatus for removing prunes from prune trays. 3,056,519, 10–2–62, Cl. 214—310.
Knisely, Robert C., to Kimble Glass Co. Apparatus for producing glass rod and tubing. 3,063,268, 11–13–62, Cl. 65—187.
Kniveton, James, to Selas Corp. of America. Method of producing a combined radiant heat fuel burner block and refractory cup. 3,050,813, 8–28–62, Cl. 25—156.
Knobel, Max, to Pneumatic Scale Corp., Ltd. Over-under recorder for weighing. 3,023,822, 3–6–62, Cl. 177—2.
Knobel, Max, to Pneumatic Scale Corp., Limited weighing apparatus. 3,066,751, 12–4–62, Cl. 177—202.
Knobloch, Arthur W. Ice drill. 3,025,917, 3–20–62, Cl. 175—18.
Knoblauch, Wolfgang: *See*—
Seidel, Willy, and Knoblauch. 3,040,076.
Knobloch, Erich, K. Adams, and B. Linnartz, to Badische Anilin- & Soda-Fabrik Aktiengesellaschaft. Process and apparatus for circulating hot gases, especially under high pressures. 3,043,499, 7–10–62. Cl. 230—188.
Knobloch, Friedrich, to Anker-Phoenix Nahmaschinen A.G. Adjustable material-feeder drive for sewing machines. 3,019,749, 2–6–62, Cl. 112—210.
Knobloch, Horst E.: *See*—
Gerlich, Hans, Knobloch, and Meyer. 3,041,315.
Meyer, Ferdinand, and Knobloch. 3,036,993.
Meyer, Ferdinand, and Knobloch. 3,036,994.
Knobloch, James O.: *See*—
Hirsch, Arthur G., and Knobloch. 3,032,559.
Knobloch, James O., and H. P. Liao, to Standard Oil Co. Crystallization of benzene tricarboxylic acids from aqueous solutions. 3 033,899, 5–8–62 Cl. 260—525
Knobloch, James O., and D. H. Meyer, to Standard Oil Co. Separation of high purity isophthalic acid. 3,059,025, 10–16–62. Cl 260—525.
Knochel, William J., E. F. Murphy, and H. Skwirut, to Westinghouse Electric Corp. Electroluminescent device. 3,030,542, 4–17–62, Cl. 313—108.
Knochel, William J., and J. A. Hall, to Westinghouse Electric Corp. Color television tube. 3,038,096, 6–5–62, Cl. 313—85
Knochel, William J., and R. O. Wiley, to Westinghouse Electric Corp. Lighting unit. 3,056,897, 10–2–62, Cl. 313—108.
Knochel, William J., and R. M. Schneider, to Westinghouse Electric Corp. Lighting unit and method of manufacture. 3 056,898, 10–2–62, Cl. 313—108.
Knocke & Associates, Inc.: *See*—
Jackman, Richard L. 3,062,252.
Knocke, Louis T., to Thompson Ramo Wooldridge Inc. Automatic brake adjuster. 3,051,275, 8–28–62 Cl. 188—196.
Knocke, Louis T., to Thompson Ramo Wooldridge Inc. Piston rings and methods of manufacture. 3,053,545, 9–11–62, Cl. 277—202.
Knocke, Louis T. Threaded fastener having a resilient locking flange. 3,056,443, 10–2–62. Cl. 151—38.
Knocke, Louis T., to Thompson Ramo Wooldridge Inc. Valve rotating mechanism. 3,068,848, 12–18–62. Cl. 123—90.
Knocks, Charles J. Box construction. 3,016,178, 1–9–62, Cl. 229—8.
Knodel, Robert R. Accessory holding device. 3,022,974. 2–27–62. Cl. 248—354.
Knodt, Clov B., to Cargill, Inc. Feed pelleting process and the resulting product. 3,035,920, 5–22–62, Cl. 99—8.
Knoebel, Walter C., to McQuay-Norris Mfg. Multi-piece piston ring assemblies. 3,055,669, 9–25–62. Cl. 277—139.
Knoebel, Walter C., to McQuay-Norris Mfg. Co. Multi-piece piston ring. 3.056,607, 10–2–62, Cl. 277—160.
Knoell, Lawrence L. Spray boom and spray boom mounting means. 3,023,970, 3–6–62, Cl. 239—167.
Knoell, Oscar F., and S. P. Lundskog, to United States Steel Corp. Shaft retainer key. 3,015,507, 1–2–62, Cl. 287—20.
Knoepke, Olga H.: *See*—
Hecker, Arthur C., Knoepke, Leistner, and Pollock. 3,056,824.
Leistner, William E., and Knoepke. 3,037,961.
Leistner, William E., Knoepke, and Hecker. 3,015,644.
Knoevenagel, Kurt, to C. F. Spiess & Sohn Chemische Fabrik. Fatty acid esters of aldose-semicarbazones and aldose-thiourethe. 3,027,364, 3–27–62, Cl. 260—211.5.
Knohl, Friedrich K.: *See*—
Nelsson, Nels, and Knohl. 3,056,234.
Knoll Associates, Inc.: *See*—
Knoll, Florence S. 3,066,994.
Savage, Robert H. 3,055,628.
Schultz, Moses R. 3,025,534.
Knoll, David, and A. Greenhaus, to Berko Electric Mfg. Corp. Electrical appliance and surface mounting means therefor. 3,037,730, 6–5–62, Cl. 248—201.
Knoll, David, and A. Greenhaus, to Berko Electric Mfg. Corp. Baseboard heater. 3,051,816, 8–28–62, Cl. 219—34.
Knoll, Florence S., to Knoll Associates, Inc. Desk construction. 3,066,994, 12–4–62, Cl. 312—255.
Knoll, Joseph: *See*—
Numerof, Paul, and Knoll. 3,061,510.
Knoll, Joseph, E. Bestel, and H. Stolp, to Allgemeine Elektricitäts-Gesellschaft. Screw feed and delivery means for a power-operated screw driver. 3,021,882, 2–20–62, Cl. 144—32.
Knoll, Russell D., to FMC Corp. Bottom filling nozzle. 3,040,787, 6–26–62, Cl. 141—143.
Knoll, Walter: *See*—
Flad, Hermann, Knoll, and von Inffeld. 3,039,280.
Knolle, Wilhelm. Apparatus for sorting seed material. 3,044,619, 7–17–62, Cl. 209—33.
Knollman, Melvin L., to Deere & Co. Hillside harvester. 3,065,590, 11–27–62, Cl. 56—209.
Knomark, Inc.: *See*—
Meyerhoefer, Carl E. 3,054,134.
Knoop, Hendrikus, to Rodi & Wienenberger Aktiengesellschaft. Expansible two layer linkage having resilient connectors. 3,036,425, 5–29–62, Cl. 59—79.
Knopf, Robert J.: *See*—
Carter, Clare A., Theiling, and Knopf. 3,042,725.
Leis, Donald G., and Knopf. 3,028,433.
Knopp, Charles R.: *See*—
Pryor, William T., and Knopp. 3,055,764.
Knopp, Inc.: *See*—
Pritchett Wilson S. 3,041,464.
Knoppel, Curt A., to Proman, Inc. Mold for high strength members. 3,056,167, 10–2–62, Cl. 18—42.
Knoppel, Curt A., to Proman, Inc. High lineal strength member and method of making same. 3,056,706, 10–2–62, Cl. 154—45.
Knopps, Francis A. Heated seat. 3,024,782, 3–13–62, Cl. 126—208.
Knörr, Fritz: *See*—
Altenschopfer, Theodor, Enk, Knorr, and Spes. 3,043,862
Enk, Eduard, and Knörr. 3,022,337.
Enk, Eduard, and Knörr. 3,022,338.
Enk, Eduard, and Knörr. 3,022,339.
Enk, Eduard, and Knorr. 3,031,493.
Enk, Eduard, Knorr, and Spes. 3,049,560.
Knospe, Robert H., to E. I. du Pont de Nemours and Co. Homogeneous blend of a polyamide and a polyvinyl lactam and process for producing. 3,036,988, 5–29–62, Cl. 260—45.5.
Knott, Clyde L., to United Shoe Machinery Corp. Loop lock stitch shoe sewing machines. 3,058,435, 10–16–62, Cl. 112—32.
Knott, Edward B., to Eastman Kodak Co. Merocyanine sensitizing dyes and sensitized photographic emulsions. 3,033,681, 5–8–62 Cl. 96—102.
Knott, Philip. Toy percolating coffee pot. 3,061,970, 11–6–62, Cl. 46—14.
Knott, Philip H. Animated devices featuring magnetically moved pieces. 3,045,393, 7–24–62, Cl. 46—240.
Knott, Sydney T.: *See*—
Hersey, John B., and Knott. 3,065,815.
Knowland, Thomas M.: *See*—
Smith, Merrill M., and Knowland. 3,039,137.
Knowland, Thomas M., and F. J. Braunels, to American Biltrite Rubber Co. Inc. Band heater and process. 3,032,811, 5–8–62, Cl. 18—6.
Knowler, Peter, to Downy Hydraulic Units Ltd. Hydraulic apparatus. 3,053,043, 9–11–62, Cl. 60—6.
Knowles, Alvis R., to Eldon Industries, Inc. Electric soldering iron. 3,048 687, 8–7–62, Cl. 219—26.
Knowles, Douglas W., to Curtiss-Wright Corp. Gas turbine rotor. 3,047,936, 8–7–62. Cl. 29—156.8.
Knowles, Edward R. Molding apparatus and method. 3,060,507, 10–30–62, Cl. 18—19.
Knowles, Frank W. Spacer for freezer plates. 3,020,731, 2–13–62. Cl. 62—341.
Knowles, Frank W. Self-locking tire chain. 3,042,095. 7–3–62, Cl. 152—213.
Knowles, Howard, to Union Carbide Canada Ltd. Heating tip for welding of plastics. 3,035,631, 5–22–62, Cl. 156—579.
Knowles, John D.: *See*—
Goodchild, Denis J., and Knowles. 3,053,657.
Knowles, John G. Hydraulic brake systems. 3,032,995 5–8–62, Cl. 60—54.5.

Knowles, John W., and E. W. Belding, to Dr. T. C. Belding. Gun sling swivel. 3,006,375, 12–4–62, Cl. 24—211.
Knowles, M. B.: *See*—
Bell, Alan, Knowles, and Tholstrup.
Knowles, William S., to Ampex Corp. Memory sensing circuit. 3,034,107, 5–8–62, Cl. 340—174.
Knowlton, David R., to United-Carr Fastener Corp. Furniture glide. 3,025,557, 3–20–62, Cl. 16—42.
Knowlton, David R., to United-Carr Fastener Corp. Fastened joint constructions. 3,028,184, 4–3–62, Cl. 287—126.
Knowlton, David R., to United-Carr Fastener Corp. Cable connector. 3,064,228, 11–13–62, Cl. 339—100.
Knowlton, Harold E.: *See*—
Flanders, Robert L., Parker, and Knowlton.
Knowlton, Harold E., R. L. Flanders, and F. M. Parker, to California Research Corp. Glazed siliceous catalyst. 3,030,314 4–17–62. Cl. 252—432.
Knowlton, M. D., Co.: *See*—
Humphreys, Lisle G.
Repp, Edwin E. 3,049,061.
Knowlton, Orin H., Jr.: *See*—
Ball, Lloyd D., Cowart, Crane, and Knowlton.
Knowlton, William R., and L. C. Meade, to Standard Mirror Co., Inc. Multi-position rear vision mirror. 3,026,771, 3–27–62, Cl. 88—77.
Knox, David M. Picture display means. 3,041,761, 7–3–62, Cl. 40—152.
Knox, David M. Picture displays. 3,041,762, 7–3–62, Cl. 40—152.
Knox, David M. Props for picture frames. 3,041,763, 7–3–62, Cl. 40—152.1.
Knox, Ernest L., to Holaday-Parks Fabricators, Inc. Check device for fire door. 3,038,569. 6–12–62, Cl. 189—49.
Knox, Floris B. Oil well pumping rod shock absorber. 3,021,794, 2–20–62, Cl. 103—202.
Knox, Granville S., to Hydril Co. Valve control apparatus. 3,018,791, 1–30–62, Cl. 137—458.
Knox, Granville S., to Hydril Co. Pressure responsive valve. 3,035,808, 5–22–62, Cl. 251—62.
Knox, Granville S., to Hydril Co. Valve sub. 3,036,590, 5–29–62, Cl. 137—315.
Knox, Granville S., to Hydril Co. Valve having a deformable sealing means. 3,064,938, 11–20–62, Cl. 251—171.
Knox, Harold W., to The Firestone Tire & Rubber Co. Three-piece shoulder parting universal tire mold. 3,057,011, 10–9–62, Cl. 18—42.
Knox, John A., to Halliburton Co. Well treating fluid. 3,057,798, 10–9–62, Cl. 252—8.55.
Knox, Lawrence H., to Syntex Corp. C-2-carboxylic acid and C-2-hydroxymethyl derivatives of the androstane series. 3,062,843, 11–6–62, Cl. 260—397.1.
Knox, Lawrence H., to Syntex Corp. Cyclopentanophenathrene derivatives and process. 3,064,011, 11–13–62, Cl. 260—345.2.
Knox, Lawrence H., to Syntex Corp. 3 β-cyclopentyl-androstane and pregnane derivatives. 3,066,155, 11–27–62, Cl. 260—397.3
Knox, Lewis A., to International Business Machines Corp. Angle digitizer. 3,046,541, 7–24–62, Cl. 340—347.
Knox Mfg. Co.: *See*—
Petrick, Edward J. and R. E. 3,022,816.
Knox-Seith, John, to Bell Telephone Laboratories, Inc. Pulse transmission. 3,032,725, 5–1–62, Cl. 333—20.
Knox, William J., Jr.: *See*—
Wilson, Charles V., and Knox. 3,041,171.
Wilson, Charles V., and Knox. 3,041,326.
Knox, William J., Jr., and J. F. Wright, to Eastman Kodak Co. Gelatin coating compositions. 3,026,202, 3–20–62, Cl. 96—94.
Knox, William J., Jr., and C. V. Wilson, to Eastman Kodak Co. Coating aids for gelatin compositions. 3,038,804, 6–12–62, Cl. 96—94.
Knox, William J., Jr., and J. F. Wright, to Eastman Kodak Co. Coating aid for gelatin and gelatinous silver halide emulsions. 3,068,101, 12–11–62, Cl. 96—94.
Knudsen, Allan C., to General Motors Corp. Testing apparatus for bearings. 3,041,867, 7–3–62, Cl. 73—9.
Knudsen Creamery Co. of California: *See*—
Osborne, Robert E., and Powell. 3,044,863.
Knudsen, Einer K., to Fonofilm Industri A/S. Device for the recording or reproduction of sound tracks. 3,051,798, 8–28–62, Cl. 179—100.41.
Knudsen, Knud J., to Lewis Engineering Co. Potentiometer device. 3,038,137, 6–5–62. Cl. 338—143.
Knudsen, Knud J., and S. J. Smith, to Lewis Engineering Co. Servo-type electrical indicator. 3,060,415, 10–23–62, Cl. 340—187.
Knudsen, Mildred P.: *See*—
Bartz, Quentin R., Ehrlich, Knudsen, and Smith. 3,023,204.
Knudsen, William C., to California Research Corp. Acoustic filters for attenuating vertically propagated interference in borehole seismology. 3,054,471, 9–18–62, Cl. 181—.5.
Knudson, Brenton C., to Westinghouse Electric Corp. Series energized transistor amplifier. 3,018,446, 1–23–62, Cl. 330—14.
Knudson, Clarence B., to Hughey & Phillips, Inc. Lamp flashing circuits. 3,046,448, 7–24–62, Cl. 315—219.
Knuppel, Helmut, to Dortmundt-Horder Huttenunion Aktiengesellschaft. System for degassing steel. 3,062,523, 11–6–62, Cl. 266—34.
Knuppel, Helmut, and K. Brotzmann, to Dortmund-Horder Huttenunion Aktiengesellschaft. Refractory nipple for dipping into molten metal. 3,056,595, 10–2–62, Cl. 266—34.
Knüsli, Enrico: *See*—
Gysin, Hans, Knüsli, and Rumpf. 3,053,843.
Knutsson-Hall, Folke K. Ignition rods intended to be lit and extinguished repeatedly. 3,065,063, 11–20–62, Cl. 44—42.
Knutti, Helmut: *See*—
Kohler, Horst, and Knutti. 3,043,194.
Kobayashi, Akio: *See*—
Anishi, Tauneo, and Kobayashi. 3,020,383.
Kobayashi, Hideya. Camera equipped with an exposure meter. 3,023,683, 3–6–62, Cl. 95—10.
Kobayashi, Takashi: *See*—
Yamaguchi, Minoru, and Kobayashi. 3,063,400.
Kobayashi, Takizo, to K. Tanaka. High output starting device for a preheating type fluorescent lamp. 3,047,772, 7–31–62, Cl. 315—99.
Kobayashi, Tatsuo, to Chiyoda Kogaku Seiko Kabushiki Kaisha. Lens shutter for camera. 3,051,065, 8–28–62, Cl. 95—10.
Kobayashi, Yuji: *See*—
Tsunoda, Yoshio, Fujimoto, Aishima, and Kobayashi. 3,065,216.
Kobbe, John R., to Tektronix, Inc. Multivibrator hold-off circuit. 3,061,788, 10–30–62, Cl. 328—196.
Kobe, Inc.: *See*—
Coberly, Clarence J. 3,041,981.
Coberly, Clarence J., and Kogut. 3,034,442.
Coberly, Clarence J., and Kogut. 3,059,581.
Coberly, Clarence J., and McArthur. 3,025,798.
Kobe Kogyo Kabushiki Kaisha: *See*—
Misuji, Takahiko, and Miyagawa. 3,027,484.
Kobe Steel Works, Ltd.: *See*—
Goto, Asahiko. 3,041,863.
Kobee, Frank R. Flocking device. 3,029,000, 4–10–62, Cl. 222—195.
Kobee, Frank R. Viscous fluid applicator. 3,066,872, 12–4–62, Cl. 239—346.
Kober, Ehrenfried: *See*—
Grundmann, Christoph J., and Kober. 3,022,303.
Kober, Ehrenfried H., R. F. W. Rütz, and H. Ulrich, to Olin Mathieson Chemical Corp. Certain polyfluorinated pyrroline and piperideine derivatives and process. 3,041,346, 6–26–62, Cl. 260—296.
Kober, Karl. Leveler. 3,043,034, 7–10–62, Cl. 37—148.
Kober, Karl. Steering mechanism. 3,043,601, 7–10–62, Cl. 280—15.
Kober, William, to TKM Electric Corp. Rotor and method of assembly thereof. 3,050,648, 8–21–62, Cl. 310—156.
Kobert, Frank P., to Microtite Corp. Shaft seal. 3,024,048, 3–6–62, Cl. 286—11.15.
Kobetz, Paul, and R. C. Pinkerton, to Ethyl Corp. Manufacture of zinc organo compounds. 3,028,318, 4–3–62, Cl. 204—59.
Kobetz, Paul, and R. C. Pinkerton, to Ethyl Corp. Manufacture of magnesium organo compounds. 3,028,319, 4–3–62, Cl. 204—59.
Kobetz, Paul, and R. C. Pinkerton, to Ethyl Corp. Manufacture of tin alkyl compounds. 3,028,320, 4–3–62, Cl. 204—59.
Kobetz, Paul, and R. C. Pinkerton, to Ethyl Corp. Manufacture of alkylead compounds. 3,028,322, 4–3–62, Cl. 204—62.
Kobetz, Paul, and R. C. Pinkerton, to Ethyl Corp. Manufacture of organolead products. 3,028,323, 4–3–62, Cl. 204—62.
Kobetz, Paul, and R. C. Pinkerton, to Ethyl Corp. Organometallic reactions. 3,068,261, 12–11–62, Cl. 260—437.
Kobiella, Robert J., to Signode Steel Strapping Co. Crimping tool having a full stroke compelling means. 3,039,336, 6–19–62, Cl. 81—9.1.
Koblenz, Avrom M., P. B. Krishnaswamy, and R. H. Thomas, to Fischer & Porter Co. Magnetic flowmeter. 3,039,306, 6–19–62, Cl. 73—194.
Kobler, Arnold J. Eyelid spreader. 3,054,398, 9–18–62, Cl. 128—20.
Kobler, Richard: *See*—
Holladay, Fred O., and Kobler. 3,046,019.
Kobler, Richard, to McGraw-Edison Co. Recording machine. 3,038,037, 6–5–62, Cl. 179—100.4.
Kobler, Richard, and W. G. Whitney, to McGraw-Edison Co. Telephone calling equipment. 3,040,133, 6–19–62, Cl. 179—90.
Koblitz, Francis F., and P. D. Morton, to Pennsalt Chemicals Corp. Bis(2-hydroxy-meta-alkylphenol) alkanes. 3,057,-928, 10–9–62, Cl. 260—619.
Kobos, Casimir, to Wilson Athletic Goods Mfg. Co., Inc. Baseball glove. 3,042,929, 7–10–62, Cl. 2—19.
Kobrin, Bernard S. Duplicating printing device. 3,049,993, 8–21–62, Cl. 101—127.1.
Kobryner, Herman H., and C. F. Brauneck, to Murray Mfg. Corp. Load distributing arrangement for pull-out type switches. 3,020,373, 2–6–62, Cl. 200—133.
Kobs, Roger D., to Northrop, King & Co. Combination seed merchandising and germinating package. 3,032,927, 5–8–62, Cl. 47—37.

Kobs, Roger D., to Northrup, King & Co. Display stand for seed packets and the like. 3,055,507, 9–25–62, Cl. 211—49.
Kocalis, George W. Line tensioning and holding device. 3,030,075, 4–17–62, Cl. 254—134.3.
Kocay, Witold R. : *See*—
Cresswell, Arthur, Kocay, and Updegraff. 3,023,134.
Wishman, Marvin, and Kocay. 3,028,371.
Wishman, Marvin, and Kocay. 3,040,008.
Kocay, Witold R., and M. Wishman, to American Cyanamid Co. Art of producing polymers of acrylonitrile. 3,028,372, 4–3–62, Cl. 260—80.5.
Kocay, Witold R., and M. Wishman, to American Cyanamid Co. Molecular weight control in acrylonitrile polymerization using chlorate-sulfite catalysts by temperature decrease. 3,040,007, 6–19–62, Cl. 260—80.5.
Kocay, Witold R., and D. J. Brady, to American Cyanamid Co. Antistatic textile lubricant finishes. 3,048,539, 8–7–62, Cl. 252—8.8.
Kocay, Witold R., and J. J. Black, to American Cyanamid Co. Art of producing polyacrylonitrile filamentary materials. 3,052,512, 9–4–62, Cl. 18—54.
Koch, Alan J. : *See*—
Baillif, Ernest A., and Koch. 3,022,645.
Koch, Anna. Bed cover. 3,047,887, 8–7–62, Cl. 5—334.
Koch, Arthur R., to General Electric Co. Window assembly. 3,022,476, 2–20–62, Cl. 333—98.
Koch, Benno. Setting device for boring or drilling tools. 3,050,862, 8–28–62, Cl. 33—185.
Koch, Charles E. : *See*—
Bond, Douglas R., and Koch. 3,063,432.
Koch, Charles H., Jr., and R. Binns, to Novo Industrial Corp. Holding mechanism. 3,039,838, 6–19–62, Cl. 312—335.
Koch, Clarence W. Drawer slide. 3,031,249, 4–24–62, Cl. 312—339.
Koch, Edward J. : *See*—
Kahn, Harry A., Koch, and Saeman. 3,032,006.
Koch, Edward T., Jr. : *See*—
Moss, James R., Koch, and Stevens. 3,021,121.
Koch Engineering Co., Inc. : *See*—
Koch, Fred C. 3,029,070.
Koch, Fred C., Veazey, Gibbs, and Love. 3,048,438.
Thrift, Griffin C. 3,056,592.
Koch, Ernst : *See*—
Benz, Rudi O., and Koch. 3,057,803.
Koch, Ernst, F. Kollinsky, and W. Ludwig, to Rohm & Haas G.m.b.H. Trialkyl esters of a tricarboxylic acid having the carboxyl groups on non-adjacent carbon atoms and use therefor as a lubricant. 3,058,913, 10–16–62, Cl. 252—56.
Koch, Frank J., to Western Electric Co., Inc. Testing and sorting apparatus 3,023,897, 3–6–62, Cl. 209—74.
Koch, Franz. Bearings for rollers in troughs or tanks containing liquid. 3,068,051, 12–11–62, Cl. 308—187.1.
Koch, Fred C., to Koch Engineering Co., Inc. Plate for contact apparatus. 3,029,070, 4–10–62, Cl. 261—113.
Koch, Fred C., R. W. Veazey, R. P. Gibbs, and R. H. Love, to Koch Engineering Co., Inc. Trailer construction. 3,048,438, 8–7–62, Cl. 296—27.
Koch, George F. : *See*—
Edelmann, Robert B., and Koch. 3,061,138.
Koch, George R., to Federal Pacific Electric Co. Hydropneumatic accumulator. 3,055,396, 9–25–62, Cl. 138—31.
Koch, Gerold : *See*—
Kühlkamp, Alfred, and Koch. 3,061,560.
Koch, Gilbert H., Wm. C. Herwig, and T. L. Kissel, to Miller Brewing Co. Anactinic malt product and hop extract therefor. 3,044,879, 7–17–62, Cl. 99—50.5.
Koch, H., & Sons : *See*—
Gaylord, John A. 3,045,076.
Koch, Hans : *See*—
Esenwein, Albert, and Koch. 3,039,201.
Koch, Hans, and O. Peters, to Hauni-Werke Korber & Co., K.G. Apparatus for severing wrapper sheets. 3,055,374, 9–25–62, Cl. 131—149.
Koch, Heinrich, and J. Ebigt, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Aqueous dispersions of adhesive vinyl polymeric materials containing carboxylic acid ester additives. 3,036,977, 5–29–62, Cl. 260—29.6.
Koch, Herbert, and K. E. Moller, to Studiengesellschaft Kohle m.b.H. Process for producing carboxylic acids from olefins, carbon monoxide and water. 3,061,621, 10–30–62, Cl. 260—413.
Koch, Herman G. : *See*—
Broughton, Amos W., Jr., and Koch. 3,015,503.
Koch, Jacob, to Ciba Ltd. Dyestuffs of the perylene tetracarboxylic acid diimide series. 3,043,843, 7–10–62, Cl. 260—281.
Koch, John E., Jr., to Celanese Corp. of America. High temperature lubricant composition. 3,036,005, 5–22–62, Cl. 252—49.6.
Koch, John H. to Burtek, Inc. Display panel assembly. 3,040,444, 6–26–62, Cl. 35—1.
Koch, John H., Jr., to Engelhard Industries, Inc. Ruthenium-containing catalysts and methods of making said catalysts and increasing their activity. 3,055,840, 9–25–62, Cl. 252—443.
Koch, John H., Jr., to Engelhard Industries, Inc. Stabilized azide fuel and combustion process. 3,066,479, 12–4–62, Cl. 60—35.4.
Koch, Karl : *See*—
Lum, David W., Koch, and Mador. 3,069,455.
Koch, Lawrence E. : *See*—
Phelan, Louis A. M., and Koch. 3,061,281.
Koch, Leonard J. : *See*—
Simmons, Wallace R., and Koch. 3,029,796.
Koch, Lydie, born Miramond, and J. Labeyrie, to Commissariat a l'Energie Atomique. Neutron detectors. 3,035,173, 5–15–62, Cl. 250—83.1.
Koch, Paul H., to The Babcock & Wilcox Co. Vapor generating and superheating unit with recirculated gas introduction along furnace floor. 3,033,178, 5–8–62, Cl. 122—478.
Koch, Paul H., and A. J. Hughes, to The Babcock & Wilcox Co. Vapor generating and superheating unit. 3,033,177, 5–8–62, Cl. 122—235.
Koch, Raymond A. Non-slip safety sole attachment for footwear. 3,021,617, 2–20–62, Cl. 36—7.6.
Koch, Richard C. Electrical jack. 3,052,866, 9–4–62, Cl. 339—202.
Koch, Robert B., to The Polymer Corp. Tube connector having elastic deformation means. 3,023,033, 2–27–62, Cl. 285—187.
Koch, Robert C., and R. P. Whipple, to The Firestone Tire & Rubber Co. Diaphragm for tubeless tires. 3,018,813, 1–30–62, Cl. 152—341.
Koch, Robert C., and W. C. Rowe, to The Firestone Tire & Rubber Co. Laminated article. 3,038,515, 6–12–62, Cl. 152—330.
Koch, Robert C., and W. C. Rowe, to The Firestone Tire & Rubber Co. Laminated article. 3,038,829, 6–12–62, Cl. 154—52.
Koch, Robert L., H. J. Ramey, Jr., and R. Jenkins, to Socony Mobil Oil Co., Inc. Recovery of hydrocarbon materials from earth formations by application of heat. 3,036,632, 5–29–62, Cl. 166—11.
Koch, Roland G., to Universal Engineering Co. Coolant transfer and seal assembly having relatively rotating parts. 3,024,050, 3–6–62, Cl. 279—20.
Koch, Theodore A., and I. M. Robinson, to E. I. du Pont de Nemours and Co. Preparation of low molecular weight organic esters. 3,036,119, 5–22–62, Cl. 260—486.
Koch, Theodore A., I. M. Robinson, and W. L. Wiley, to E. I. du Pont de Nemours and Co. Vapor phase oxidation of propylene acrylic acid. 3,065,264, 11–20–62, Cl. 260—533.
Koch, Walter : *See*—
Katz, Peter, Koch, and Fischer. 3,033,631.
Meyer, Kurt, Rausch, and Koch. 3,034,884.
Koch, Walter T., to American Viscose Corp. Cellophane coating composition. 3,034,925, 5–15–62, Cl. 117—145.
Koch, Walter T., M. R. Lytton, and E. A. Wielicki, to American Viscose Corp. Composition comprising thermoplastic resin and a resinous polypinate plasticizer. 3,051,667, 8–28–62, Cl. 260—16.
Koch, Werner : *See*—
Dillenburger, Wolfgang, and Koch. 3,040,125.
Koch, Werner, to Roland Offsetmaschinenfabrik Faber & Schleicher AG. Inking mechanism for printing machines. 3,020,840, 2–13–62, Cl. 101—350.
Koch, Werner, and F. Preuss, to Roland Offsetmaschinenfabrik Faber & Schleicher A.G. Tripping device for printing machine cylinders. 3,054,346, 9–18–62, Cl. 101—218.
Koch, Wilhelm, to Kleemann's Vereinigte Fabriken. Apparatus for separating fine-grained sand. 3,035,697, 5–22–62, Cl. 209—161.
Koch, William J. : *See*—
Brunner, Adam W., and Koch. 3,055,196.
Koch, William J., to Radio Corp. of America. Firing process for forsterite ceramics. 3,020,619, 2–13–62, Cl. 25—157.
Kochan, John A., to General Electric Co. Apparatus for extruding silver contacts. 3,034,641, 5–15–62, Cl. 207—1.
Kochanowski, George A., to Kinkead Industries, Inc. Mounting structure for slidable shower door. 3,037,555, 6–5–62, Cl. 160—186.
Kochanowski, George A., to Kinkead Industries, Inc. Shower-door frame latch construction. 3,062,279, 11–6–62, Cl. 160—296.
Kochaver, Theodore J., to United States Steel Corp. Tool for loosening tire beads. 3,052,285, 9–4–62, Cl. 157—1.2.
Kochendorfer, Heinrich, to Robert Bosch, G.m.b.H. Starting motor transmission for internal combustion engines or the like. 3,056,305, 10–2–62, Cl. 74—7.
Kochendörfer, Leonhard : *See*—
Schröeder, Karl, and Kochendörfer. 3,044,337.
Kocher, Earl T., to Nalco Chemical Co. Process for breaking petroleum oil emulsions with complex polyester condensation products. 3,056,748, 10–2–62, Cl. 252—342.
Kocher, Erich J., to Vilter Mfg. Corp. Ice making equipment. 3,053,058, 9–11–62, Cl. 62—233.
Kocher, George K. Apparatus for comminuting materials. 3,058,674, 10–16–62, Cl. 241—39.
Kocher, Gottlieb. Spray guns. 3,049,303, 8–14–62, Cl. 239—312.
Kochey, Edward L., to Combustion Engineering, Inc. Steam generator organization. 3,050,042, 8–21–62, Cl. 122—406.
Kochheim, Gerhard : *See*—
Kuntz, Josef. 3,024,633.
Kochis, Paul E., to E. I. du Pont de Nemours and Co. Process for dispersing reclaimed silicone rubber in a silicone gum. 3,063,957, 11–13–62, Cl. 260—37.
Kochly, Joseph A. : *See*—
Arnold, James S., and Kochly. 3,016,735.
Koci, Jerry C., to Chicago Dynamic Industries Inc. Electric circuit for controlling the playing and scoring of regulation bowling. 3,043,593, 7–10–62, Cl. 273—43.

Koci, Jerry C., to Chicago Dynamic Industries, Inc. Combination simulated bowling pin resetter and ball lift. 3,053,536, 9–11–62, Cl. 273—41.

Kocian, Richard H.: *See*—
Hall, Emery L., and Kocian. 3,056,439.

Kocot, Raymond H., and A. L. Bearman, to Fairchild Camera and Instrument Corp. Cathode ray tube. 3,031,580, 4–24–62, Cl. 250—213.

Koda, Arthur J., to C. P. Clare & Co. Relay construction. 3,026,390, 3–20–62, Cl. 200—104.

Koda, Arthur J., to C. P. Clare & Co. Relay construction. 3,038,976, 6–12–62, Cl. 200—87.

Koda, Nobuo J., H. M. Smith, C. L. Corderman, and F. A. Rodgers; said Koda and said Smith assors. to Hughes Aircraft Co. and said Corderman and said Rodgers assors. to Research Corp. Deflection system for cathode ray type storage tubes. Re. 25,221, 8–7–62, Cl. 315—24.

Kodalle, Horst, and G. Seifert, to VEB Kamera- und Kinowerke Dresden. Photographic camera. 3,017,812, 1–23–62, Cl. 95—11.

Kodaras, Michael J., to Elof Hansson, Inc. Louvered door. 3,061,056, 10–30–62, Cl. 189—46.

Kodera, Toshio, T. Morishita, and K. Ota, to Brother Seimitsu Kogyo Kabushiki Kaisha. Ornamental zigzag stitching attachments for sewing machines. 3,039,412, 6–19–62, Cl. 112—160.

Kodiak, Inc.: *See*—
Bollefer, Dwight L. 3,040,545.
Bollefer, Dwight L. 3,043,117.

Kodis, Robert D., to Rogheem Co. Magnetic computing. 3,027,545, 3–27–62, Cl. 340—174.

Kodras, Rudolph, to International Minerals & Chemical Corp. Process for preparing dehydrated mashed potatoes. 3,039,-883, 6–19–62, Cl. 99—207.

Koe, Emil J. Self-orienting instrument handle. 3,064,352, 11–20–62, Cl. 30—296.

Koebel, Thomas P., to Zegers, Inc. Sash support for sash balance unit. 3,034,170, 5–15–62, Cl. 16—197.

Koeber, Henry J., to Bell & Howell Co. Camera. 3,044,385, 7–17–62, Cl. 95—64.

Koechlin, Christian: *See*—
Mottu, Andre, Gassman, and Koechlin. 3,036,493.

Koehegyi, Joseph N. Process of making basic refractory and basic refractorv composition. 3,058,834, 10–16–62, Cl. 106—59.

Koehl, James A. Electrical musical instruments. 3,054,318, 9–18–62, Cl. 84—1.17.

Koehler, Adolph F. Changing color display device. 3,028,-482, 4–3–62, Cl. 240—10.1.

Koehler Aircraft Products Co.: *See*—
Becht, Richard J. 3,062,230.
Dietz, John W., MacFadgen, and Bossemeyer. 3,067,433.
Koehler, Gordon T. 3,062,246.

Koehler, Albert T., to A. J. Gerrard & Co. Automatic strapping and sealing machine. 3,066,599, 12–4–62, Cl. 100—12.

Koehler, Fred, to Hamilton Watch Co. Electric timepiece contact mechanism. 3,015,933, 1–9–62, Cl. 58—28.

Koehler, Fred, to Hamilton Watch Co. Overbanking preventive means for a balance wheel. 3,017,741, 1–23–62, Cl. 58—107.

Koehler, Fred, to Hamilton Watch Co. Clock-radio sleep switch. 3,052,766, 9–4–62, Cl. 200—38.

Koehler, Fred, to Hamilton Watch Co. Clock-radio switch. 3,060,287, 10–23–62, Cl. 200—38.

Koehler, Fred, to Hamilton Watch Co. Adjustable contact system. 3,069,515, 12–18–62, Cl. 200—38.

Koehler, Gerard N. Storage device for information represented by electric pulses. 3,031,137, 4–24–62, Cl. 235—61.11.

Koehler, Gerard N. to Compagnie des Machines Bull (Societe Anonyme). Electric relay. 3,048,749, 8–7–62, Cl. 317—165.

Koehler, Gordon T., to Koehler Aircraft Products Co. Fill valve. 3,062,246, 11–6–62, Cl. 141—115.

Koehler, Herman A. Concrete form clamp. 3,066,962, 12–4–62, Cl. 287—54.

Koehler, James O.: *See*—
Dereska, Joseph S., Koehler, and Vinal. 3,057,760.

Koehler, Marian E.: *See*—
Koehler, Paul A. 3,069,939.
Koehler, Paul A. 3,069,940.

Koehler, Paul A., deceased; M. E. Koehler, executrix. Tool for rolling internal threads. 3,069,939, 12–25–62, Cl. 80—6.

Koehler, Paul A., deceased; M. E. Koehler, executrix. Tap for rolling internal threads. 3,069,940, 12–25–62, Cl. 80—6.

Koehn, George W.: *See*—
Brooks, John G., and Koehn. 3,044,976.

Koehn, Helmut: *See*—
Matsch, Ladislas C., Yendall, Lauer, and Koehn. 3,066,-493.

Koehn, Wilbur R. Finger cots. 3,018,484, 1–30–62, Cl. 2—21.

Koehn, Wilbur R. Apparatus for applying catheter. 3,030,-953, 4–24–62, Cl. 128—214.

Koehn, Wilbur R. Retention catheters. 3,050,066, 8–21–62, Cl. 128—349.

Koehne, Karl H., to Shand and Jurs Co. Gauging apparatus. 3,057,199, 10–9–62, Cl. 73—321.

Koehring Co.: *See*—
Carr, Louis E., and Jones. 3,045,850.
Henry, Richard E., and Wash. 3,017,216.
Lindell, John F. 3,032,994.
Rexford, Kenneth B. 3,044,389.
Wills, Marion C. 3,042,233.

Koelmans, Hein: *See*—
Grimmelis, Hermann G., Koelmans, and Maak. 3,027,329.

Koelmans, Hein, and C. M. C. Verhagen, to North American Philips Co. Inc. Titanium-activated calcium germanate. 3,060,128, 10–23–62, Cl. 252—301.4.

Koelsch, Albert C., Jr., and D. R. Young, to International Business Machines Corp. Electro-optical devices. 3,027,-806, 3–3–62, Cl. 88—61.

Koelsch, Emery F., and E. W. Gravlin, to Royal Jet Division of Royal Industries, Inc. Container with impact indicator. 3,025,995, 3–20–62, Cl. 220—71.

Koen, Richard F. Shaft gripping element. 3,042,433, 7–3–62, Cl. 287—52.

Koenecke, Donald F.: *See*—
Winters, Merilyn A., Slotterbeck, Koenecke, and Van Nostrand. 3,058,837.

Koenecke, Donald F., and W. L. van Nostrand, Jr., to Esso Research and Engineering Co. Coating compositions with gelatin agents therein. 3,030,233, 4–17–62, Cl. 117—121.

Koenig, Herbert G., to Trio Mfg. Co. Transmission line connector. 3,039,074, 6–12–62, Cl. 339—99.

Koenig, Herold L.: *See*—
Oestermeyer, Carl F., Raney, Koenig, and Havlick.

Koenig, Martin F., to Cutler-Hammer, Inc. Circuit breaker panel assembly. 3,037,153, 5–29–62, Cl. 317—119.

Koenig, Nathan H., to United States of America, Agriculture. Treatment of wool with haloketones in the presence of dimethylformamide. 3,055,727, 9–25–62, Cl. 8—128.

Koenig, Nathan H., to United States of America, Agriculture. Process for densifying felts with formamide. 3,057,036, 10–9–62, Cl. 28—76.

Koenig, Nathan H., W. L. Wasley, and C. E. Pardo, Jr., to United States of America, Agriculture. Method of setting wool textiles with ethanolamine. 3,059,990, 10–23–62, Cl. 8—128.

Koenig, Robert H., to Tapeswitch Corp. of America. Switch means. 3,052,772, 9–4–62, Cl. 200—61.08.

Koenig, Rudolf, and R. Aurnhammer, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of hexachlorcycloheyane. 3,041,384, 6–26–62, Cl. 260—648.

Koenigsamen, Arthur C., to S. M. Frank & Co., Inc. Closure cap for the bowls of smoking pipes. 3,053,260, 9–11–62, Cl. 131—177.

Koennecke, Wolfgang, to Elastic Aktiengesellschaft vormals M. Vogel A.G. Stapling apparatus. 3,017,636, 1–23–62, Cl. 1—49.

Koepcke, John M.: *See*—
Durham, Raymond F., and Koepcke. 3,045,442.

Koepfinger, Ted S. Grass edger for sprinkler heads. 3,062,-299, 11–6–62, Cl. 172—18.

Koeppe, Hans H.: *See*—
Hell, Hans, and Koeppe. 3,059,556.
Steinmetz, Helmut, Hell, and Koeppe. 3,066,642.

Koeppen, Robert E., to United States of America, Army. Inertia actuated electric unit. 3,035,520, 5–22–62, Cl. 102—70.2.

Koerber, Willem K., and F. L. Schouteden, to Gevaert Photo-Producten N.V. Method for optical bleaching coated papers. 3,047,390, 7–31–62, Cl. 96—82.

Koerner, Ernest C., R. Hall, and E. L. Smith, to Phelps Dodge Copper Products Corp. Magnet wire and method of making same. 3,022,200, 2–20–62, Cl. 117—218.

Koerner, Harry E. and L. E. McCanna, to Westinghouse Electric Corp. Spotfilm device. 3,048,696, 8–7–62, Cl. 250—66.

Koerner, Harry E., and E. W. Vaughn, to Westinghouse Electric Corp. X-ray shutter apparatus. 3,048,700, 8–7–62, Cl. 250—105.

Koerner, Howard, F. Witzel, and W. Barshied, to Beech-Nut Life Savers, Inc. Printing on confection items and the resulting product. 3,052,552, 9–4–62, Cl. 99—148.

Koerner, Mark P., and L. L. Warner to Owens-Corning Fiberglas Corp. Glass flake electrical insulation. 3,066,065, 11–27–62, Cl. 162—138.

Koerner, Ralph J., to Thompson Ramo Wooldridge Inc. Memory array searching system. 3,031,650, 4–24–62, Cl. 340—174.

Koesling, Heinz, to North American Philips Co., Inc. Device for heating workpieces inductively. 3,051,811, 8–28–62, Cl. 219—10.67.

Koesling, Heinz, to North American Philips Co., Inc. Device for conveying stepwise work pieces through an inductive heating furnace. 3,056,878, 10–2–62, Cl. 219—10.71.

Koester, Charles J., to American Optical Co. Optical compensating system. 3,052,152, 9–4–62, Cl. 88—1.

Koester, Charles J., to American Optical Co. Achromatic polarization rotators. 3,060,808, 10–30–62, Cl. 88—65.

Koester, George L., Jr., to Turbine Equipment Co. Multiple pass electric heater for fluids. 3,031,563, 4–24–62, Cl. 219—38.

Koetitz, Kenneth F., and L. C. Fetterly, to Shell Oil Co. Production of aromatic hydrocarbons. 3,062,904, 11–6–62, Cl. 260—668.

Koett, Albert C., Jr.: *See*—
Murray, Donald E., and Koett. 3,058,708.

Koetting, Robert A., ½ to R. C. Mueller and ½ to Roberts Instruments Co. Visual field examination device. 3,025,-755, 3–20–62, Cl. 88—20.

Koffler, Sol. Handles. 3,023,868, 3–6–62, Cl. 190—57.

Kofford, Reed S. Pressure break for poultry watering equipment. 3,042,070, 7–3–62, Cl. 137—448.

Kofink, Siegfried. Heating apparatus for liquid fuels. 3,046,-973, 7–31–62, Cl. 126—110.

Koiuku Sangyo Kabushiki Kaisha : *See—* Horimura, Isao.

Kogan, Henry W., and T. E. Noakes, to American Radiator & Standard Sanitary Corp. Air expansion dispenser with metering means. 3,045,874, 7–24–62, Cl. 222—282.

Kogan, Philip, H. Wolanek, and R. J. Wagner, to J. F. Crosfield Ltd. Perforation of webs by electrical discharges. 3,017,486, 1–16–62, Cl. 219—19.

Kogel, Wilhelm G., to Aktiebolaget Electrolux. Absorption refrigeration. 3,020,725, 2–13–62, Cl. 62—110.

Kögl, Fritz : *See—* Corrodi, Hans R., Hardegger, Kögl, and Zeller. 3,057,879.

Kogon, Irving C., to E. I. du Pont de Nemours and Co. Cured polyetherurethanes. 3,036,996, 5–29–62, Cl. 260—77.5.

Kogut, Val : *See—* Coberly, Clarence J., and Kogut. 3,034,442. Coberly, Clarence J., and Kogut. 3,059,581.

Kohen, Julius. Wearing apparel. 3,045,245, 7–24–62, Cl. 2—243.

Kohinoor, Waldes, Inc. : *See—* Millbeiser, Melvin. 3,062,253.

Kohl, Arthur L. : *See—* Bochinski, Julius H., Kohl, and Oliver. 3,049,563.

Kohl, Arthur L. Liquid-liquid contacting apparatus. 3,032,-403, 5–1–62, Cl. 23—270.5.

Kohl, Arthur L., A. L. Fuller, and J. A. Bailey, to The Fluor Corp. Ltd. Cross-flow cooling tower packing. 3,031,173, 4–24–62, Cl. 261—106.

Kohl, Arthur L., and A. L. Fuller, to The Fluor Corp. Packing for gas-liquid contacting equipment. 3,039,749, 6–19–62, Cl. 261—112.

Köhl, Erwin : *See—* Hacker, Kurt, and Köhl. 3,028,742.

Kohl, Everard F. Panels and the process of preparing same. 3,036,672, 5–29–62, Cl. 189—34.

Kohl, Karl, to Karl Mayer Erste Hessische Wirkmaschinenfabrik G.m.b.H. Raschel warp knitting machine. 3,063,-273, 11–13–62, Cl. 66—86.

Kohl, Karl. Raschel warp knitting machine with novel latch needles. 3,063,274, 11–13–62, Cl. 66—86.

Kohl, Karl, to Karl Mayer Hessische Wirkmaschinenfabrik G.m.b.H. Guide-needle for warp knitting machines. 3,066,-543, 12–4–62, Cl. 66—50.

Kohl, Walter H., to United States of America, Navy. Method of making insulated terminals of the receptacle type. 3,049,-792, 8–21–62, Cl. 29—155.55.

Kohlberg, Victor S., to Bowling Specialties Co., Inc. Jam-relief device for bowling pin setting machine. 3,069,164, 12–18–62, Cl. 273—43.

Kohlenscheidungs-Gesellschaft, m.b.H. : *See—* Geissler, Theodor. 3,025,844. Raetz, Paul. 3,030,037. Steinert, Gerhard. 3,015,319. Steinert, Gerhard. 3,053,615.

Kohler, Alfred : *See—* Bock, Willy, and Kohler. 3,058,143. Prohaska, Hans, and Kohler. 3,046,591. Prohaska, Hans, and Kohler. 3,054,128.

Kohler, August R., W. H. Miller, and H. M. Windlan, to American Cyanamid Co. Process and composition for preservation and improved color retention of meats. 3,050,-401, 8–21–62, Cl. 99—157.

Kohler, Conrad D. Differential with automatic slip control. 3,049,942, 8–21–62, Cl. 74—710.5.

Kohler, Conrad D. Automatic panel feeder. 3,067,885, 12–11–62, Cl. 214—8.5.

Kohler, Edward J. : *See—* Grimone, Frank H., and Kohler. 3,064,692.

Kohler, Fred, to American Machine & Foundry Co. Method and apparatus for the induction welding of tubing. 3,037,-105, 5–29–62, Cl. 219—8.5.

Kohler, Georg : *See—* Collischan, Fritz. 3,060,630. Collischan, Fritz. 3,060,631. Collischan, Fritz. 3,064,388.

Köhler, Heinrich, to Robert Bosch G.m.b.H. Portable drill. 3,018,674, 1–30–62, Cl. 77—32.3.

Kohler, Herman, to Felins Tying Machine Co. Knotter. 3,041,096, 6–26–62, Cl. 289—11.

Kohler, Horst, to C. Zeiss. Binocular lens system. 3,051,-050, 8–28–62, Cl. 88—57.

Kohler, Horst, and H. Knutti, to C. Zeiss. Binoculars. 3,043,194, 7–10–62, Cl. 88—57.

Köhler, Jacob W. L., A. A. Dros, and J. A. L. Ijzer, to North American Philips Co., Inc. Apparatus for condensing shipboard cargos of vaporizable liquid. 3,033,003, 5–8–62, Cl. 62—54.

Kohler, Jacob W. L., H. Rinia, and J. G. Piet, to North American Philips Co., Inc. Thermal regenerator. 3,045,-982, 7–24–62, Cl. 257—270.

Kohler-Joa Corp. : *See—* Joa, Curt G. 3,036,605.

Kohler, John, to Carpenter and Paterson, Inc. Constant support pipe hanger. 3,048,359, 8–7–62, Cl. 248—54.

Kohler, Otto, to Telefunken G.m.b.H. Switching device. 3,053,952, 9–11–62, Cl. 200—102.

Kohler, Peter J. : *See—* Slaasted, Raymond S., and Kohler. 3,017,161.

Kohler, Rene, to Societe Industrielle de Delle. Screw thread cold-rolling machine. 3,039,334, 6–19–62, Cl. 80—6.

Kohler, Rudolf : *See—* Pietsch, Helmut, Kohler, and Stein. 3,052,647.

Kohler, Siegfried, to Borg Holding A.G. Method of preparing pipe systems for chemical cleaning. 3,036,559, 5–29–62, Cl. 122—379.

Kohler, Theodor B., and E. Aho, to Federal-Mogul-Bower Bearings, Inc. Bearing cage assembly. 3,051,534, 8–28–62, Cl. 308—217.

Kohlhagen, Walter. Synchronous motor field unit. 3,068,375, 12–11–62, Cl. 310—164.

Kohlhaut, Ann. Holder for bird seed. 3,066,648, 12–4–62, Cl. 119—51.

Kohli, Benjamin. Central heating boiler with cooking plate. 3,045,661, 7–24–62, Cl. 126—34.

Kohli, Benjamin, and L. Richard. Heating apparatus. 3,045,662, 7–24–62, Cl. 126—94.

Kohlmeier, Werner. Gauge protector. 3,057,072, 10–9–62, Cl. 33—178.

Kohlstadt, Erwin, and K. H. Klingler, to Chemiewerk Homburg, Zweigniederlassung der Deutschen Gold- und Silber-Scheideanstadt, vorm. Roessler (Degussa). Basic substituted 1- and 7-alkylxanthines or salts thereof. 3,029,239, 4–10–62, Cl. 260—253.

Kohlstadt, Erwin, and K.-H. Klingler, to Chemiewerk Homburg Zweigniederlassung der Deutschen Gold- und Silber-Scheideanstadt vormals Roessler. N-substituted 2-phenyl-7-aminoalkoxy chromones. 3,046,275, 7–24–62, Cl. 260—247.7.

Kohlwerk Jernverks Aktiebolag : *See—* Tove, Per A. 3,067,956.

Kohlwey, Johann F., to Algemene Kunstzijde Unie, N.V. Apparatus for the continuous manufacture of shaped articles from artificial thermoplastic substances. 3,026,564, 3–27–62, Cl. 18—12.

Kohlwey, Johann F., to Onderzoekingsinstituut Research, N.V. Method for preparation of superpolyamides suitable for forming hollow products and the hollow products so produced. 3,048,567, 8–7–62, Cl. 260—78.

Kohman, Girard, T., and K. B. McAfee, Jr., to Bell Telephone Laboratories, Inc. Separation of gases by diffusion. 3,010,853, 2–6–62, Cl. 183—2.

Kohn, Gustave K. : *See—* Makower, Benjamin, and Kohn. 3,041,160. Moore, Joseph E., Ospenson, and Kohn. 3,062,865. Moore, Joseph E., Ospenson, and Kohn. 3,062,866. Moore, Joseph E., Ospenson, and Kohn. 3,062,868. Ospenson, Joseph N., Kohn, and Moore. 3,062,864. Ospenson, Joseph N., Kohn, and Moore. 3,066,163.

Kohn, Gustave K., to California Research Corp. Method of destroying fungi employing 1-chloro-2,4,6-trinitrobenzene. 3,062,709, 11–6–62, Cl. 167—30.

Kohn, Gustave K., to California Research Corp. N-substituted dimethyl 1-carbamoyloxy-2,2,2-trichloroethyl phosphonates as insecticidal compositions. 3,069,312, 12–18–62, Cl. 167—22.

Kohn, Gustave K., J. E. Moore, and J. N. Ospenson, to California Research Corp. 3-t-amyl-6-chlorophenyl N-methylcarbamate and method of inhibiting the cholinesterase function in agricultural parasites therewith. 3,062,707, 11–6–62, Cl. 167—30.

Kohn, Gustave K., J. E. Moore, and J. N. Ospenson, to California Research Corp. M-(1-ethylpropyl) phenyl N-methylcarbamate. 3,062,867, 11–6–62, Cl. 260—479.

Kohn, William, III, to Simonds Abrasive Co. Grinding disc. 3,069,817, 12–25–62, Cl. 51—209.

Kohner Bros., Inc. : *See—* Stubbmann, Albert. 3,061,948.

Kohnle, Kenneth J. : *See—* Green, Daniel M., Kohnle, and Elliott. 3,051,621.

Kohorst, Joseph. Heater. 3,021,833, 2–20–62, Cl. 126—360.

Kohorst, Joseph, and V. J. Scoop and loader attachment for tractors. 3,048,292, 8–7–62, Cl. 214—510.

Kohorst, Vernon J. : *See—* Kohorst, Joseph, and V. J. 3,048,292.

Kohoutek, Jindrich, and O. Kožený, to Závody Jana Svermy. Built-up polarized relay. 3,047,691, 7–31–62, Cl. 200—93.

Kohring, Wilbur M. Process for making resistors. 3,048,914, 8–14–62, Cl. 29—155.63.

Kohring, Wilbur M. Process for making resistors. 3,063,100, 11–13–62, Cl. 18—59.

Kohrn, Robert C. : *See—* Martin, Frank S., Kohrn, and Hicks. 3,041,220.

Koidan, Walter, to United States of America, Commerce. Instrument for reciprocity calibration of electro-acoustic transducers. 3,054,864, 9–18–62, Cl. 179—175.1.

Koike, Fuji, to Nihon Mishin Seizo Kabushiki Kaisha. Needle-bar guide apparatus for zigzag sewing machines. 3,029,761, 4–17–62, Cl. 112—158.

Koiled Kords, Inc. : *See—* Love, Edgar L. 3,068,531.

Koivula, Elmer C. Tong thrower. 3,036,718, 5–29–62, Cl. 212—7.

Kojalowicz, Anthony M., to North American Aviation, Inc. Transistor pulse amplifier with means to eliminate effects of minority carrier storage. 3,023,323, 2–27–62, Cl. 307—88.5.

Kokalas, Edward: *See*—
Swanson, George J., and Kokalas. 3,023,396.
Kokonoe, Toshiko. Hand weaving loom. 3,032,071, 5–1–62, Cl. 139—33.
Kokosh, George, and E. H. Savela, to Coin-Meter Co. Coin control device. 3,066,783, 12–4–62, Cl. 194—72.
Kokurewicz, Joseph. Treatment of plants employing tannin materials. 3,060,082, 10–23–62, Cl. 167—24.
Kokusai Denki Kabushiki-Kaisha: *See*—
Tanaka, Tetsuro, Tagawa, and Kuyama. 3,028,564.
Kokusai Denshin Denwa Kabushiki Kaisha: *See*—
Goto, Eiichi. 3,051,843.
Kolb, Hans: *See*—
Sennewald, Kurt, Wolfram, Kolb, Sievers, and Hoyer. 3,057,916.
Kolb, Kenneth E.: *See*—
Bolton, Benjamin A., and Kolb. 3,051,724.
Kolb, Kenneth E., and B. A. Bolton, to Standard Oil Co. Hydroxyalkyl trimellit-imides. 3,060,191, 10–23–62, Cl. 260—326.
Kolb, Max: *See*—
Wagner, Manfred, and Kolb. 3,054,029.
Kolb, Robert H., to Shell Oil Co. Remote telemetering and recording system. Re. 25,209, 7–24–62, Cl. 340—18.
Kolb, Robert H., to Shell Oil Co. Chart recorder. 3,059,237, 10–16–62, Cl. 346—14.
Kolb, Robert H., to Shell Oil Co. Apparatus for measuring variable physical conditions employing a sensing device generating a variable frequency signal. 3,062,052, 11–6–62, Cl. 73—398.
Kolba, Verne M.: *See*—
Harner, Joseph M., Fromm, and Kolba. 3,049,487.
Kolbe, Adelbert E., to General Motors Corp. Engine manifolding. 3,019,781, 2–6–62, Cl. 123—122.
Kolbe, Adelbert E., to General Motors Corp. Internal combustion engine lubricating system. 3,023,844, 3–6–62, Cl. 184—6.
Kolbe, Adelbert E., to General Motors Corp. Internal combustion engine lubricating system. 3,023,845, 3–6–62, Cl. 184—6.
Kolbe, Adelbert E., to General Motors Corp. Internal combustion engine lubricating system. 3,023,846, 3–6–62, Cl. 184—6.
Kolbe, Adelbert E., to General Motors Corp. Internal combustion engine lubricating system. 3,023,847, 3–6–62, Cl. 184—6.
Kolbe, Adelbert E., to General Motors Corp. Engine exhaust system. 3,029,597, 4–17–62, Cl. 60—29.
Kolbe, Adelbert E., to General Motors Corp. Internal combustion engine lubricating system. 3,057,435, 10–9–62, Cl. 184—6.
Kolbe, Henry H., to The Firestone Tire & Rubber Co. Fluid storage and transfer system. 3,057,588, 10–9–62, Cl. 244—135.
Kolbe, Joachim: *See*—
Hagge, Walter, Dusing, and Kolbe. 3,058,919.
Kolben, Felix D.: *See*—
Biritz, Laszlo F. 3,018,611.
Kolda, Frank V., and C. F. Sindy, to General Electric Co. Apparatus for filling flash lamps. 3,032,948, 5–8–62, Cl. 53—123.
Kolda, Frank V., and M. J. Briehl, to General Electric Co. Lamp bridge making machine. 3,046,634, 7–31–62, Cl. 29—25.2.
Kolding, Aaron R., and B. B. Oliver, to Bell Telephone Laboratories, Inc. Inaudible supervisory signaling system. 3,070,667, 12–25–62, Cl. 179—84.
Kolec, Robert F., to Olympic Screw & Rivet Corp. Riveting tool. 3,017,052, 1–16–62, Cl. 218—42.
Kolec, Robert F., and V. L. Dunham, to Olympic Screw & Rivet Corp. Blind rivet having a bore defined by a plurality of flat walls. 3,065,661, 11–27–62, Cl. 85—40.
Kolena, Robert P.: *See*—
Turek, James R., and Kolena. 3,038,173.
Kolene Corp.: *See*—
Muller, Johannes, and Albrecht. 3,022,204.
Shoemaker, Robert H., and Faler. 3,024,139.
Kolenko, Evgeny A., and A. G. Czerbina. Solder for joining thermocouples with copper. 3,045,341, 7–24–62, Cl. 29—501.
Koletsky, Harold S., and M. W. Berkowitz, to Avien, Inc. Stabilized transistor multivibrator. 3,017,524, 1–16–62, Cl. 307—88.5.
Koley, John J. Shoe spike construction. 3,066,425, 12–4–62, Cl. 36—2.5.
Kolfenbach, John J., and W. W. Gleason, to Esso Research and Engineering Co. Method for lubricating a jet engine. 3,016,701, 1–16–62, Cl. 60—39.08.
Kolflat, Alf. Safety device for and method of protecting nuclear power plants. 3,022,238, 2–20–62, Cl. 204—193.2.
Kolin, Alexander, to United States of America, Navy. Electromagnetic flowmeter for conductive fluids. 3,040,571, 6–26–62, Cl. 73—194.
Kolinsky, Frank E.: *See*—
Lucanera, Constantino, Kolinsky, and Annechiarico. 3,040,319.
Kolisch, Emil, to Continental Electrolog Corp. Equipment for determining the center of gravity of an aircraft. 3,063,638, 11–13–62, Cl. 235—193.
Koliss, Peter P.: *See*—
Duvall, George H., Hammersla, and Koliss. 3,061,666.
Kolka, Alfred J.: *See*—
Ecke, George G., and Kolka. 3,019,097.
Ecke, George G., and Kolka. 3,043,672.
Koll, Roman: *See*—
Heil, Rudolf, and Koll. 3,034,105.
Heil, Rudolf, and Koll. 3,038,024.
Heil, Rudolf, and Koll. 3,051,783.
Kollar, Irene M., and C. J. Anderson. Tubular cooking container. 3,032,249, 5–1–62, Cl. 229—3.5.
Kollar, John, and J. G. D. Schulz, to Gulf Research & Development Co. Process of producing alpha-beta unsaturated carbonyl-containing compounds. 3,060,236, 10–23–62, Cl. 260—590.
Kölle, Erwin, to Daimler-Benz Aktiengesellschaft. Back rest adjusting device. 3,044,830, 7–17–62, Cl. 297—361.
Koller, Charles R., to E. I. du Pont de Nemours and Co. Fiber-forming polyamide dissolved in a solvent mixture containing formic acid and at least one other compound. 3,070,562, 12–25–62, Cl. 260—31.2.
Koller, Eugen J., and H. Illy, to Ciba Ltd. New phthalocyanine dyestuffs. 3,059,988, 10–23–62, Cl. 8—26.
Koller, Hans. Crop sprayers. 3,018,058, 1–23–62, Cl. 239—318.
Koller, Lewis R., and H. D. Coghill, to General Electric Co. Formation of phosphor films of reaction. 3,016,307, 1–9–62, Cl. 117—33.5.
Kolling, Helmut: *See*—
Goethel, Herbert, Jacob, Kolling, and Roelen. 3,024,208.
Kölling, Johann, to The Babcock & Wilcox Co. Fluid heater tube support. 3,027,882, 4–3–62, Cl. 122—510.
Kölling, Johann, to The Babcock & Wilcox Co. Method of making a gas-tight integral tube panel. 3,045,340, 7–24–62, Cl. 29—471.1.
Kollinsky, Fritz: *See*—
Koch, Ernst, Kollinsky, and Ludwig. 3,058,913.
Pessmar, Klaus, and Kollinsky. 3,041,305.
Kollisch, Gebruder: *See*—
Projahn, Emil. 3,019,807.
Kollmann, Karl J. Cutter head for sewer snakes. 3,056,157, 10–2–62, Cl. 15—104.09.
Kollmeier, Xavier, to International Business Machines Corp. Method for making printed circuits. 3,037,265, 6–5–62, Cl. 29—155.5.
Kollonitsch, Janos, to Merck & Co., Inc. Method of making α-diketones. 3,065,259, 11–20–62, Cl. 260—483.
Kollonitsch, Janos, and L. M. Weinstock, to Merck & Co., Inc. Preparation of 17α,21-steroid oxides. 3,053,835, 9–11–62, Cl. 260—239.55.
Kollonitsch, Janos, and R. W. Bragdon, to Metal Hydrides Inc. Preparation of alkali and alkaline earth metal borohydrides. 3,063,791, 11–13–62, Cl. 23—14.
Kollsman Instrument Corp.: *See*—
Andresen, John H., Jr. 3,017,619.
Andresen, John H., Jr. 3,018,429.
Andresen, John H., Jr. 3,025,494.
Andresen, John H., Jr. 3,053,162.
Angus, James W. 3,043,580.
Carbonara, Victor E., and MacDonald. 3,042,296.
Chitayet, Anwar K. 3,024,699.
Friedman, Robert. 3,023,266.
Stearns, Thornton. 3,040,168.
Kollsman, Paul. Reduction of polarization in liquid streams undergoing deionization by electrodialysis. Re. 25,265, 10–16–62, Cl. 204—180.
Kollsman, Paul. Method of fractionation of ionic liquids. 3,025,227, 3–13–62, Cl. 204—180.
Kolmar Laboratories, Inc.: *See*—
Jacobi, Otto K. 3,033,755.
Kolmes, Max G.: *See*—
Haigh, Leslie B., and Kolmes. 3,036,182.
Kolner, Samuel J., to Phillips Petroleum Co. Apparatus for crystallization. 3,023,090, 2–27–62, Cl. 23—273.
Kolochynski, William. Agitator for domestic mixers. 3,050,258, 8–21–62, Cl. 259—134.
Kolodin, Louis, to Radio Corp. of America. Transistor multivibrator circuit with transistor gating means. 3,047,737, 7–31–62, Cl. 307—88.5.
Kolodny, Edwin R.: *See*—
Carpenter, Joseph E., and Kolodny. 3,035,070.
Koloseus, Lucian. Mounting means for plow blade. 3,041,753, 7–3–62, Cl. 37—144.
Kolthof, Jacob J., and C. J. Caron, to Koninklijke Machinefabriek Gebr. Stork & Co., N.V. Apparatus for degasifying water, particularly boiler feed water. 3,048,379, 8–7–62, Cl. 261—127.
Kolthoff, C. Paul, Jr., to International Harvester Co. Device for controlling clearance between rotor and shroud of a turbine. 3,039,737, 6–19–62, Cl. 253—39.1.
Kolthoff, C. Paul, Jr., to International Harvester Co. Regenerator drive and supporting arrangement. 3,043,568, 7–10–62, Cl. 257—267.
Kolton, David, to Federal Pacific Electric Co. Method of making sheet-metal parts. 3,038,430, 6–12–62, Cl. 113—116.
Kolton, David, to Federal Pacific Electric Co. Plug-in fuse receptacle. 3,056,872, 10–2–62, Cl. 200—133.
Koltum, Stanley P.: *See*—
Loeb, Leopold, Clayton, Koltum, Philips, Segal, and Takemura. 3,054,695.
Kolzow, Karl-Heinz: *See*—
Behrens, Albert, Kolzow, and Brandt. 3,066,761.

Komachiya, Yoshioki : *See*—
Sakurai, Setsuji, Komachiya, and Ito. 3,019,232.
Komarek, Ernst, and G. Mauthe, to Farbenfabriken Bayer Aktiengesellschaft. Sulfo-methylated phenol-formaldehyde tanning agents. 3,065,039, 11–20–62, Cl. 8—94.24.
Komarmy, Julius M., to United States of America, Navy. Preparation of normal lead styphnate. 3,041,361, 6–26–62, Cl. 260—435.
Komarmy, Julius M., and W. J. Broach, to United States of America, Navy. Preparation of basic lead styphnate. 3,066,161, 11–27–62, Cl. 260—435.
Komatar, Frederick A., and F. A. Pearson, to The Gamewell Co. Temperature compensated pneumatic time delay devices. 3,037,101, 5–29–62, Cl. 200—83.
Komatsu, Toshiaki : *See*—
Nakagome, Takenari, and Komatsu. 3,053,833.
Komenda, Erwin : *See*—
Porsche, Ferdinand, and Komenda. 3,042,444.
Porsche, Ferdinand, Komenda, and Blaschka. 3,047,331.
Komenda, Erwin, to Firma Dr. Ing. h.c. F., Porsche, KG. Vehicle body of metal reinforced synthetic resin. 3,068,043, 12–11–62, Cl. 296—31.
Komenda, Erwin, to Firma Dr. Ing. h.c. F., Porsche, KG. Vehicle body door construction. 3,068,045, 12–11–62, Cl. 296—44.
Komenda, Erwin, to Firma Dr. Ing. h.c. F., Porsche, KG. Tractor construction. 3,070,401, 12–25–62, Cl. 296—102.
Komenda, Erwin, and F. Blaschka, to Dr. Ing. h.c. F. Porsche K.G. Vehicle body construction. 3,031,224, 4–24–62, Cl. 296—28.
Komeno, Taichiro, to Shionogi & Co., Ltd. Acylthio-steroids and production thereof. 3,016,386, 1–9–62, Cl. 260—397.2.
Komeno, Taichiro, to Shionogi & Co., Ltd. Acylthio-hydroxy-steroids and preparation thereof. 3,047,590, 7–31–62, Cl. 260—397.4.
Komfort King Seats, Inc. : *See*—
Leja, Casimir E. 3,025,032.
Kominic, Walter E., to The Goodyear Tire & Rubber Co. Valve inserting apparatus. 3,034,266, 5–15–62, Cl. 29—213.
Komline-Sanderson Engineering Corp. : *See*—
Ballantyne, Charles R., and Sanderson. 3,041,148.
Hawkes, Ralph O. and H. G., Morrison, and Sirles. 3,017,997.
Komline, Thomas R. 3,054,663.
Komline, Thomas R., to Komline-Sanderson Engineering Corp. Composting apparatus. 3,054,663, 9–18–62, Cl. 23—259.1.
Komnenovich, Eli : *See*—
Beattie, Charles W., and Komnenovich. 3,028,269.
Komor, Peter S. : *See*—
Graham, Frank S., Komor, and Redding. 3,046,604.
Komor, Peter S., to U. S. Electrical Motors, Inc. Fluid filled submersible motor. 3,052,804, 9–4–62, Cl. 310—87.
Komorowski, Clarence L., and F. Pessl, to General Motors Corp. Motorized vehicle foot rest. 3,059,960, 10–23–62, Cl. 296—65.
Kompart, Walter W., to National Steel Corp. Method and apparatus for treating strip material. 3,048,504, 8–7–62, Cl. 134—15.
Kompass, Helmut, to Phrix-Werke AG. Adjustably shielded suction drum for circulating bath liquid. 3,024,493, 3–13–62, Cl. 18—8.
Kompelien, Alexander O., and C. R. Broman, to Baxter Laboratories, Inc. Airway cannula. 3,048,173, 8–7–62, Cl. 128—221.
Kompelien, Arlon D. : *See*—
Severson, Asbjorn M., and Kompelien. 3,023,294.
Kompelien, Arlon D., to Minneapolis-Honeywell Regulator Co. Apparatus for automatically measuring blood pressure and pulse rate. 3,051,165, 8–28–62, Cl. 128—2.05.
Kompelien, Arlon D., and A. M. Severson, to Minneapolis-Honeywell Regulator Co. Blood pressure measuring transducer. 3,040,737, 6–26–62, Cl. 128—2.05.
Kompfner, Rudolf : *See*—
Bowers, Klaus D., Kompfner, and Mims. 3,067,379.
Kompfner, Rudolf, to Bell Telephone Laboratories, Inc. Parael high frequency amplifier circuits. 3,021,490, 2–13–62, Cl. 330—43.
Kompfner, Rudolf, to Bell Telephone Laboratories, Inc. Scanning horn-reflector antenna. 3,021,524, 2–13–62, Cl. 343—781.
Kompfner, Rudolf, to Bell Telephone Laboratories, Inc. Broadband cyclotron wave parametric amplifier. 3,051,911, 8–28–62, Cl. 320—43.
Kompfner, Rudolf, and M. T. Weiss, to Bell Telephone Laboratories, Inc. Microwave filter. 3,041,559, 6–26–62, Cl. 333—98.
Komph, William L., Sr., to The Wellman Engineering Co. Can crusher. 3,055,289, 9–25–62, Cl. 100—53.
Kompus, Emery L. Grain dryer. 3,016,626, 1–16–62, Cl. 34—182.
Konar, Joseph. Adjustable stroller. 3,061,328, 10–30–62, Cl. 280—36.
Konazewski, Clement R. : *See*—
Lyon, Floyd A., and Konazewski. 3,056,246.
Konazewski, William P. : *See*—
Bott, George S., and Konazewski. 3,066,452.
Bott, George S., and Konazewski. 3,066,673.
Kondell, Thadius : *See*—
Heinsohn, Henry G., and Kondell. 3,067,274.
Kondi, Spiro E., to Minneapolis-Honeywell Regulator Co. Marginal checking means for electrical pulse circuits. 3,047,841, 7–31–62, Cl. 340—167.
Kondo, Masahiro. Process for producing beta-mercaptopropionic acid. 3,029,279, 4–10–62, Cl. 260—526.
Kondo, Masukichi. Vanes of an impeller for axial flow propeller pumps. 3,023,709, 3–6–62, Cl. 103—89.
Kondur, Nicholas, Jr., to Burroughs Corp. Latch and control mechanism. 3,063,624, 11–13–62, Cl. 235—60.5.
Konecny, Anthony R. : *See*—
Miller, William R., and Konecny. 3,054,190.
Könemund, Berthold, and P. Schlegel, to Rappold & Co., G.m.b.H., Fa. Explosion door particularly for blast furnace gas collectors. 3,037,737, 6–5–62, Cl. 251—31.
Konet, Henry : *See*—
Mims, Bruce L., and Konet. 3,060,397.
Konig, Gunter : *See*—
Kaupp, Josef, Konig, von Rosenberg, Trager, and Thalhofer. 3,053,681.
Konig, Hans-Bodo : *See*—
Komack, Gerhard, Schellhammer, Petersen, and König. 3,039,925.
König, Helmut F. : *See*—
Stiefel, Christian J., and König. 3,019,743.
König, Johann : *See*—
Siedel, Walter, Nahm, and König. 3,067,247.
König, Otto : *See*—
Gordon, Eliot G., and König. 3,050,499.
König, Theodor : *See*—
Holbrichter, Hermann, Falk, and König. 3,048,930.
Konigl, Georg : *See*—
Baur, Carl, and Konigl. 3,041,919.
Konigsberg, Robert L., to United States of America, Navy. Electrical bridge. 3,034,044, 5–8–62, Cl. 324—57.
Koninklijke Machinefabriek Gebr. Stork & Co., N.V. : *See*—
Kolthof, Jacob J. and Caron. 3,048,379.
Koninklijke Nederlandsche Gisten Spiritusfabriek N.V., De. : *See*—
Szpilfogel, Stefan A., Mijs, and De Flines. 3,031,445.
Koninklijke Pharmaceutische Fabrieken V/H : *See*—
Harms, August F. 3,038,931.
Koninklijke Pharmaceutische Fabrieken v/h Brocades-Stheeman & Pharmacia, N.V. : *See*—
Harms, August F. 3,040,049.
Van der Stelt, Cornelis. 3,028,428.
Koninklijke Vereenigde Tabaksindustrieen Mignot & de Block, N.V. : *See*—
Cras, Hubertus F. M. 3,055,373.
Verbakel, Martinus. 3,064,658.
Verhappen, Jacobus Th. 3,043,315.
Konklin, Ella J. Sweater construction. 3,057,178, 10–9–62, Cl. 66—176.
Konotsune, Takuo : *See*—
Iwai, Issei, and Konotsune. 3,062,873.
Konrad, Léon, to Usines Tornos, Fabrique de machines Moutier S.A. Automatic lathe. 3,041,904, 7–3–62, Cl. 82—2.7.
Konrad, Léon, to Usines Tornos, Fabrique de machines Moutier S.A. Feeding mechanism for automatic lathes. 3,042,251, 7–3–62, Cl. 221—81.
Konrad, Léon. Feeding mechanism for automatic lathes. 3,042,252, 7–3–62, Cl. 221—81.
Konrad, Otto, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Motor pump unit. 3,048,116, 8–7–62, Cl. 103—87.
Konshack, Erwin : *See*—
Eismann, Helmut, Konshack, and Lange. 3,043,192.
Konstant, Anthony N., to Speedrack, Inc. Storage rack. 3,028,976, 4–10–62, Cl. 211—148.
Konstruktioner & Experiment A.B. : *See*—
Sneen, Franz. 3,032,020.
Konwal, Ignatius. Boring bars. 3,015,241, 1–2–62, Cl. 77—58.
Konz, Wilhelm, and K. Zeile, to C. H. Boehringer, Sohn. Derivatives of xanthine. 3,030,363, 4–17–62, Cl. 260—256.
Konz, Wilhelm C., and K. Zeile, to C. H. Boehringer, Sohn. Process for the preparation of acrylic acid esters. 3,065,260, 11–20–62, Cl. 260—486.
Koob, James H. : *See*—
Staubly, Julian L., and Koob. 3,057,748.
Kooi, Earl R., C. F. Harjes, and J. S. Gilkison, to Corn Products Co. Treatment and use of enzymes for the hydrolysis of starch. 3,042,584, 7–3–62, Cl. 195—31.
Kooi, Johan P. E., to A. L. Stopps. Ballast mounting box. 3,024,937, 3–13–62, Cl. 220—3.8.
Kooijman, Pieter L. : *See*—
Borstlap, Cornelis, and Kooijman. 3,067,220.
Buesink, Hendrik, and Kooijman. 3,067,221.
Kooistra, John A., and L. E. Bussiere, to Davis & Furber Machine Co. Combined bobbin and flyer assembly. 3,015,931, 1–9–62. Cl. 57—73.
Kooistra, Lambert F., to The Babcock & Wilcox Co. Fuel elements. 3,070,534, 12–25–62, Cl. 204—193.2.
Kools Brothers, Inc. : *See*—
Jacobsen, Alexander, and Kools. 3,040,794.
Kools, Edward V. : *See*—
Jacobsen, Alexander, and Kools. 3,040,794.
Kooltronic Fan Co. : *See*—
Lyman, Roger T. 3,019,965.
Kool Vent Metal Awning Corp. of America : *See*—
Fatula, William F. 3,016,584.
Koomey, Paul C., and P. C. Hudson, to Stewart and Stevenson Distributing Co. Pressure accumulator apparatus. 3,028 881, 4–10–62, Cl. 138—30.
Koon, William S. : *See*—
Crook, James W., and Koon. 3,028,839.

Koons, Frederick L., and L. Drum, to General Motors Corp. Method and apparatus for steam rinsing dishes. 3,049,450, 8–14–62, Cl. 134—11.
Koontz, John D.: *See*—
Dunlop, Donald D., Koontz, and Hillard. 3,067,268.
Koontz, Lamont B., to Minneapolis-Honeywell Regulator Co. Aircraft lighting system. 3,031,645, 4–24–62, Cl. 340—25.
Koontz, Richard L.: *See*—
Swimmer, Ernest J., and Koontz. 3,059,346.
Swimmer, Ernest J., and Koontz. 3,059,617.
Koontz, Victor F., to Dravo Corp. Pallet for sintering machines. 3,064,961, 11–20–62, Cl. 266—21.
Koontz-Wagner Electric Co., Inc.: *See*—
Kumm, Brent. 3,036,247.
Koop, Brent, ½ to J. C. Tapio and ½ to J. A. Koop. Telephone sterilizer. 3,049,597, 8–14–62, Cl. 179—185.
Koop, Josephine A.: *See*—
Koop, Brent. 3,049,597.
Koop, Marvin C. Bridge for plugging holes. 3,039,534, 6–19–62, Cl. 166—123.
Koopal, Sieds, U. Verstrijden, W. Pesch, and J. J. M. Deumens, to Stamicarbon N.V. Preparation of alkyl esters of sorbic acid. 3,056,830, 10–2–62, Cl. 260—486.
Kooperative Vorbundet: *See*—
Thuresson af Ekenstam, Bo, and Svensson. 3,039,652.
Koopman, Harmannus, and J. Daams, to North American Philips Co., Inc. Preparation for influencing the growth of plants. 3,027,248, 3–27–62, Cl. 71—2.3.
Koopman, Herman H., to The Standard Oil Co. Vehicle lift. 3,059,726, 10–23–62, Cl. 187—8.75.
Koopmans, Marinus J.: *See*—
Schoot, Cornelis J., Koopmans, and Van Den Bos. 3,058,924.
Koopmans, Martinus J., to North American Philips Co., Inc. Method of producing organic tin compounds and preparation containing such compounds for combating noxious micro-organisms. 3,031,483, 4–24–62, Cl. 260—429.7.
Koorneef, Jacob: *See*—
Duiker, Simon, and Koorneef. 3,042,758.
Kopczynski, John F. Propulsion of bodies at high linear speeds. 3,026,719, 3–27–62, Cl. 73—88.
Kope, Rowland J., and R. Marsh, to Olin Mathieson Chemical Corp. Fastener arresting device for a power actuated tool. 3,019,440, 2–6–62, Cl. 1—44.5.
Kopec, Stanley J. Broach assembly. 3,022,710, 2–27–62, Cl. 29—95.1.
Kopelman, Edward, and A. R. Campman, to 3-D Weaving Co. Methods of making structural panels having diagonal reinforcing ribs and products thereof. 3,048,198, 8–7–62, Cl. 139—384.
Kopf, Philip. Shopping bag vending machine. 3,050,214, 8–21–62, Cl. 221—240.
Kopf, Rowland J.: *See*—
De Caro, Charles J., and Kopf. 3,048,849.
Henning, Robert W., Pfaff, and Kopf. 3,041,616.
Henning, Robert W., and Kopf. 3,029,434.
Marsh, Roger, Kopf, and Henning. 3,016,539.
Kopf, Rowland J., R. W. Henning, and R. Marsh, to Olin Mathieson Chemical Corp. Power-actuated tool. 3,029,435, 4–17–62, Cl. 1—44.5.
Kopf, Rowland J., and R. Marsh, to Olin Mathieson Chemical Corp. Hanger bracket. 3,055,625, 9–25–62, Cl. 248—339.
Kopf, Rowland J., and R. Marsh, to Olin Mathieson Chemical Corp. Fastener arresting device for a power actuated tool. 3,064,262, 11–20–62, Cl. 1—44.5.
Kopf, Rowland J., and R. Marsh, to Olin Mathieson Chemical Corp. Fastener arresting device for a power actuated tool. 3,066,303, 12–4–62, Cl. 1—44.5.
Kopita, Robert, and T. G. Gleason, to Peabody Engineering Corp. Particulate matter recovery system. 3,036,626, 5–29–62, Cl. 159—4.
Kopito, Louis, to Baird-Atomic, Inc. Control of flexible surfaces by means of a probe. 3,031,928, 5–1–62, Cl. 88—74.
Kopitzki, John J. Adjustable vehicle seat. 3,039,732, 6–19–62, Cl. 248—404.
Koplin, Elmer W.: *See*—
Krueger, Thomas L., and Koplin. 3,029,985.
Koplin, Hans O., to General Motors Corp. Vehicle body with forward sliding windshield and side window structure. 3,031,223, 4–24–62, Cl. 296—28.
Koplin, Harry. Laundry system. 3,044,285, 7–17–62, Cl. 68—12.
Köpnick, Horst, D. Delfs, and W. Simmler, to Bayer Aktiengesellschaft, Farbenfabriken. Organosiloxy methyl alkanes. 3,040,080, 6–19–62, Cl. 260—448.8.
Kopp, Erich H. Tooth root extractor. 3,060,582, 10–30–62, Cl. 32—61.
Kopp, Georges, R. E. M. Gangneux, A. M. E. Baron, to Compagnie Francaise des Matieres Colorantes. Colouring of polyester fibres. 3,043,647, 7–10–62, Cl. 8—41.
Kopp, Harold G. Defensive reaction football training sled. 3,062,547, 11–6–62, Cl. 273—55.
Kopp, Joseph: *See*—
Saifer, Abraham, and Kopp. 3,033,656.
Kopp, Joseph. Supports for use in chromatography and for other purposes. 3,018,000, 1–23–62, Cl. 211—45.
Kopp, Philip E.: *See*—
Georg, Raymond H., and Kopp. 3,017,727.
Kopp, Valentine T.: *See*—
Gardner, Edward M., and Kopp. 3,019,929.
Kopp, William J.: *See*—
De Monte, Robert W., and Kopp. 3,068,329.
Koppehele, Hugo P., to American Viscose Corp. Simultaneous biaxial stretching of film with a tenter frame. 3,055,048, 9–25–62, Cl. 18—1.
Koppehele, Hugo P., to American Viscose Corp. Apparatus for stretching beaded edge film. 3,063,090, 11–13–62, Cl. 18—1.
Koppel, Harold H.: *See*—
Hornfeck, Anthony J., and Koppel. 3,028,095.
Hornfeck, Anthony J., Koppel, and Louis. 3,015,768.
Koppel, Harold H. to Bailey Meter Co. Manual and automatic control servo-system. 3,068,387, 12–11–62, Cl. 318—28.
Koppelmann, Eldo K. Setting device for roller burnishing tools. 3,069,750, 12–25–62, Cl. 29—90.
Kopper, Edward C., to The Electric Storage Battery Co. Nickel-powder leveling apparatus. 3,050,776, 8–28–62, Cl. 18—15.
Koppers Co., Inc.: *See*—
Baum, Melvin E., and Hostetler. 3,015,672.
Baumann, Herman P. 3,059,987.
Benson, Donald E., Lejeck, Karsten, and Whitcomb. 3,024,014.
Blanco, Joseph. 3,020,247.
Chamberlain, Merle D., and Todd. 3,039,843.
Corson, Ben B., and Moe. 3,047,643.
Cotton, Robert S. 3,059,912.
Cotton, Robert S. 3,069,022.
Dawson, Milton K. 3,028,625.
Doak, Kenneth W. 3,036,053.
Dobratz, Elmer H. 3,026,345.
Donath, Ernest E. 3,064,040.
Edberg, Edwin A. 3,042,967.
Edberg, Edwin A., and Tress. 3,015,479.
Farrow, John G. 3,029,124.
Fischer, Walter, Crutzen, and Nilles. 3,060,510.
Forliti, Paul. 3,056,732.
Fox, Alan J. 3,039,911.
Fronko, Michael F. 3,056,753.
Fryling, Charles F., and Guziak. 3,058,947.
Galizia, Eugene V. 3,063,954.
Goldstein, Irving S., and Dreher. 3,065,087.
Goldstein, Irving S., and Oberley. 3,070,494.
Gollmar, Herbert A. 3,030,182.
Gollmar, Herbert A. 3,035,900.
Haas, James P. 3,030,841.
Hannes, Paul. 3,025,981.
Hannes, Paul. 3,033,764.
Harris, James J. 3,016,402.
Harris, James J. 3,052,686.
Haussner, Theodor H. W., and Easton. 3,040,397.
Ingram, Alvin R. 3,039,977.
Ingram, Alvin R., and Guziak. 3,037,958.
Jorzeniuk, Erich. 3,044,963.
Kemp, Woodrow E. 3,058,839.
Kemp, Woodrow E., and Lane. 3,027,342.
Kirby, Ben H., Jr., and Cochran. 3,058,855.
Kirkpatrick, John G., and Revell. 3,053,640.
Kuhn, Eugene M. 3,040,013.
Lafferty, Gerald F. 3,042,972.
Malkomes, Walter. 3,036,720.
Nitchie, Charles D. 3,053,130.
Palamenti, Albert. 3,053,154.
Pennington, John W. 3,031,753.
Powell, Russell A. 3,041,059.
Powell, Russell A. 3,056,518.
Reinfeld, Kurt. 3,039,756.
Reinfeld, Kurt, and Cotton. 3,025,046.
Reinfeld, Kurt, and Obenchain. 3,025,047.
Rice, Owen R. 3,045,986.
Rodman, Hugh, Jr. 3,023,175.
Rosenthal, Robert W., Proper, and Greco. 3,066,165.
Rudner, Bernard, and Moores. 3,030,405.
Rudner, Bernard and Moores. 3,042,636.
Schappert, Hans M. 3,023,202.
Schulz, Walter A. 3,038,720.
Spooner, Robert B. 3,070,535.
Sturrock, Murray G., Cline, Robinson, and Lovin. 3,016,401.
Temin, Samuel C. 3,037,950.
Temin, Samuel C. 3,041,314.
Temin, Samuel C. 3,041,369.
Temin, Samuel C. 3,065,183.
Thiessen, Gilbert. 3,021,291.
Thomas, John B., and Drenning. 3,059,394.
Tiefenthal, Harlan E., and Lee. 3,030,342.
Tress, John J., and Heilman. 3,050,476.
Tucker, Linwood G., Jr. 3,047,474.
Van Ackeren, Joseph, and Griffin. 3,032,483.
Van Ackeren, Joseph, and Helm. 3,042,590.
Von Kessel, Kurt, and Dierschke. 3,054,727.
Waldhofer, Reinhard. 3,045,978.
Ward, Henry D., Jr. 3,067,643.
Wartik, Thomas, and Rosenberg. 3,033,770.
Willeke, Bruno. 3,054,730.
Wright, Harold A. 3,027,334.
Wright, Harold A. 3,027,335.
Wright, Harold A. 3,050,512.
Wright, Harold A. 3,060,138.
Zellerhoff, Bruno, and Klapp. 3,036,906.
Koppl, Adolf. Locks. 3,037,802, 6–5–62, Cl. 292—153.
Koppl, Ernest, to Shaffer Tool Works. Jar tool for well operations. 3,057,418, 10–9–62, Cl. 175—294.

Kops Bros., Inc.: *See*—
Neiman, Mary. 3,035,585.
Korab, George, and H. Krause, to Chicago Forging & Mfg. Co. Dual latch structure. 3,026,132, 3–20–62, Cl. 292—11.
Korach, Malcolm, and W. H. Rideout, to Pittsburgh Plate Glass Co. Method of recovering butadiene monoxide. 3,019,234, 1–30–62, Cl. 260—348.
Koranda, Clarence J., and W. E. Fritz, to Enterprise Railway Equipment Co. Pneumatic unloading hopper structure. 3,050,342, 8–21–62, Cl. 302—52.
Koranye, Theodore D., to International Business Machines Corp. Voltage monitor. 3,029,423, 4–10–62, Cl. 340—253.
Korb, Herbert, to Rota Apparate-und Maschinenbau Dr. Hennig, K.G. Aachen. Ampule for injections. 3,056,404, 10–2–62, Cl. 128—220.
Korb, Karl W., to Permanent Mold Die Co., Inc. Double piston arrangement. 3,018,762, 1–30–62, Cl. 121—38.
Korber, Kurt, & Co., K.G.: *See*—
Creuzburg, Richard. 3,016,905.
Peters, Otto. 3,016,906.
Korber, Kurt. Cigarette rod making machine. 3,039,474, 6–19–62, Cl. 131—84.
Korber, Kurt, & Co., K.G.: *See*—
Esenwein, Albert, and Koch. 3,039,201.
Korber, Ulrich: *See*—
Jabczynski, Hans J., Korber, and Voegtlen. 3,038,968.
Korbitz, Norman D., and E. L. Staples, Jr., to Texas Instruments Inc. Differential sealing of glass components. 3,032,941, 5–8–62, Cl. 53—22.
Kordes, Myron G., to Standard Steel Works, Inc. Sanitary manhole assembly. 3,062,398, 11–6–62, Cl. 220—29.
Kordesch, Karl, to Union Carbide Corp. Anodes for alkaline cells. 3,042,732, 7–3–62, Cl. 136—30.
Kordowski, Edward S., to General Box Co. Container. 3,027,038, 3–27–62, Cl. 217—12.
Kordowski, Edward S., to General Box Co. Latch assembly. 3,037,665, 6–5–62, Cl. 217—68.
Korensky, Edwin, and R. E. Thune, to Link-Belt Speeder Corp. Crane boom structure. 3,021,014, 2–13–62, Cl. 212—144.
Korf, Erich, to VEB Kamera- und Kinowerke Dresden. Picture projector. 3,049,052, 8–14–62, Cl. 88—28.
Korff, Marvin, and H. M. Scott, to United States of America, Navy. Timing multivibrator. 3,021,486, 2–13–62, Cl. 328—129.
Korff, Marvin, and H. M. Scott, to United States of America, Navy. Direct coupled bootstrap sawtooth generator. 3,050,686, 8–21–62, Cl. 328—176.
Korger, Gerhard: *See*—
Aumuller, Walter, Weyer, and Korger. 3,068,282.
Korn, Milo, and J. Hermann, to Bolkow-Entwicklungen Kommanditgesellschaft. Apparatus for measuring and regulating very low speeds. 3,053,095, 9–11–62, Cl. 73—504.
Korinth, Erich, and E. Heubach, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Brüning. Process for the conversion of ammonium imido disulfonate into ammonium amido sulfonate. 3,070,424, 12–25–62, Cl. 23—114.
Korling, Franz. Device for mounting edge glazings on goods-display tables, counters, and the like. 3,053,601, 9–11–62, Cl. 312—140.3.
Korman, Samuel: *See*—
Sheer, Charles, and Korman. 3,060,109.
Kormendy, Lajos. Miniature mercury pressure gauge, particularly for measuring the blood-pressure. 3,056,299, 10–2–62, Cl. 73—402.
Kormuth, Martin. Excess paint guard and shield. 3,039,433, 6–19–62, Cl. 118—505.
Korn, Meyer. Bag. 3,070,278, 12–25–62, Cl. 229—62.
Korn, Waldemar H. Dust guard well cap. 3,044,788, 7–17–62, Cl. 277—131.
Kornacker, John J.: *See*—
Cappelle, Norman D., and Kornacker. 3,065,642.
Cappelle, Norman D., and Kornacker. 3,069,039.
Kornblum, Nataan, to Purdue Research Foundation. Preparation of organic nitro compounds. 3,038,015, 6–5–62, Cl. 260—644.
Kornbluth, Murray, to Guard Coatings Corp. Strippable coating material and method. 3,034,915, 5–15–62, Cl. 117—6.
Korneff, Theodore: *See*—
Bohn, Jacob L., Nadig, and Korneff. 3,040,627.
Korneff, Theodore, J. L. Bohn, and F. H. Nadig, to United States of America, Air Force. High speed camera. 3,029,-685, 4–17–62, Cl. 88—16.6.
Kornel, Otto, to International Business Machines Corp. Magnetic transducer. 3,065,311, 11–20–62, Cl. 179—100.2.
Kornfeld, Edmund C.: *See*—
Easton, Nelson R., and Kornfeld. 3,067,101.
Kornfield, Nathaniel R., to Burroughs Corp. One core per bit shift register. 3,024,446, 3–6–62, Cl. 340—174.
Korntved, Joyce M.: *See*—
Hoff, Dale R., and Korntved. 3,047,596.
Kornylak, Andrew T.: *See*—
Heinrich, Chester J., Kornylak, and Toscano. 3,020,993.
Kornylak, Andrew T. Sprocket silencer. 3,016,757, 1–16–62, Cl. 74—243.
Kornylak, Andrew T., to Kornylak Corp. Conveyor rail and roller assembly. 3,037,603, 6–5–62, Cl. 193—37.
Kornylak, Andrew T. Gravity type conveyor. 3,057,443, 10–9–62, Cl. 193—36.
Kornylak Corp.: *See*—
Kornylak, Andrew T. 3,037,603.
Korolick, Samuel R., to United States of America, Army. Draft bars for helmet hoods. 3,031,673, 5–1–62, Cl. 2—3.
Korones, Herbert D., and H. E. Rosenberger, to Bausch & Lomb Inc. Optical system for sighting instruments. 3,045,545, 7–24–62, Cl. 88—57.
Korostoff, Edward: *See*—
Finch, Donald I., Korostoff, and Pollock. 3,017,269.
Korpi, Edwin O.: *See*—
Whyte, David D., and Korpi. 3,024,273.
Korpi, Karl J., and R. C. Johnson, to The Lummus Co. Method of refining metals. 3,015,555, 1–2–62, Cl. 75—84.1.
Korpi, Karl J., and R. C. Johnson, to The Lummus Co. Method of refining metals. 3,015,556, 1–2–62, Cl. 75—84.
Korpi, Karl J., and R. C. Johnson, to The Lummus Co. Method of refining metals. 3,015,557, 1–2–62, Cl. 75—84.1.
Korpics, Charles J., to Standard Oil Co. Ammonium nitrate combustion catalyst. 3,056,703, 10–2–62, Cl. 149—19.
Korpics, Charles J., to Standard Oil Co. Ammonium nitrate combustion catalyst. 3,067,075, 12–4–62, Cl. 149—19.
Korpman, Ralf, to Johnson & Johnson. Pressure sensitive adhesive tape having primer coating of reaction product of epoxy-reactive elastomer and epoxy resin. 3,068,117, 12–11–62, Cl. 117—76.
Korrie Products, Inc.: *See*—
Albiani, Lido. 3,048,309.
Kors, Henry F. Medicine cabinet door latch. 3,069,217, 12–18–62, Cl. 312—209.
Korsgren, Theodore Y., Jr.: *See*—
Korsgren, Theodore Y., Sr., and T. Y. Korsgren, Jr. 3,062,932.
Korsgren, Theodore Y., Jr., to Haydon Switch, Inc. Locking actuator assembly for electrical switches and the like. 3,057,223, 10–9–62, Cl. 74—491.
Korsgren, Theodore Y., Sr., and T. Y. Korsgren, Jr., to Haydon Switch, Inc. Switch and parts thereof. 3,062,932, 11–6–62, Cl. 200—67.
Korski, Frank S., and R. E. Martin, to The Emerson Electric Mfg. Co. Wire twisting and cut-off device. 3,017,906, 1–23–62, Cl. 140—119.
Korte, Richard M., and H. N. Schneider, to General Electric Co. Circuit interrupter. 3,050,602, 8–21–62, Cl. 200—147.
Kortenhoven, Peter, to United States Steel Corp. Sealing head for hydrostatic pipe-testing apparatus. 3,064,467, 11–20–62, Cl. 73—49.6.
Korver, Margaret P., and N. C. Cahoon, to Union Carbide Corp. Separator media for aluminum cells. 3,048,647, 8–7–62, Cl. 136—146.
Korzenowski, Anton: *See*—
Hansen, George E., and Korzenowski. 3,017,158.
Kosa, Tibor, T. A. Kozsa, and R. O. Holmes, to The Microcyclomat Co. Multistage turbo-grinder with choke rings in each stage. 3,067,959, 12–11–62, Cl. 241—189.
Kosangas, A/S: *See*—
Henriques, Eric O., and Rasmussen. 3,043,332.
Henriques, Eric O., and Rasmussen. 3,043,334.
Kosar, Jaromir, to Keuffel & Esser Co. Photosensitive material. 3,068,804, 12–18–62, Cl. 96—92.
Kosarin, Arnold A. and B. A. Hot air heater. 3,053,246, 9–11–62, Cl. 126—110.
Kosarin, Basil A.: *See*—
Kosarin, Arnold A. and B. A. 3,053,246.
Kosatka, Thomas O., to Victor Mfg. & Gasket Co. Self-contained fluid seal device. 3,022,080, 2–20–62, Cl. 277—36.
Kosatka, Thomas O., to Victor Mfg. & Gasket Co. Self-contained fluid seal. 3,022,081, 2–20–62, Cl. 277—39.
Kosatka, Thomas O., to Victor Mfg. & Gasket Co. Fluid seal. 3,049,357, 8–14–62, Cl. 277—182.
Kosbab, Kenneth A., and E. R. Ziegler, to General Motors Corp. Pump assembly. 3,063,299, 11–13–62, Cl. 74—125.
Koscheleff, Basile, ½ to N. J. Katenov. Electro-magnetic position transmitter. 3,047,846, 7–31–62, Cl. 340—199.
Kosco, John C., and A. J. Schutz, to Stackpole Carbon Co. Semiconductor diode base. 3,068,557, 12–18–62, Cl. 29—182.2.
Kosenkranius, Hans. Water-soluble protein from fish air bladder and infant colic treatment therewith. 3,042,583, 7–3–62, Cl. 167—74.
Kosewicz, John S., to Commercial Solvents Corp. Polyethylimine containers. 3,033,238, 5–8–62, Cl. 138—141.
Kosewicz, John S., to Commercial Solvents Corp. Pelletizing of carbon black. 3,054,665, 9–18–62, Cl. 23—314.
Kosewicz, John S., S. Gill, and R. W. Cretney, to Commercial Solvents Corp. Recovery of carbon black. 3,039,-851, 6–19–62, Cl. 23—209.4.
Kosh, Allan E. Lens measuring instrument. 3,050,860, 8–28–62, Cl. 33—174.
Koshaba, Wilson, and A. K. Green. Brake actuating mechanism for motor vehicles. 3,025,713, 3–20–62, Cl. 74—478.
Koshiba, Jyunichi: *See*—
Ohashi, Hideichiro, Kawasaki, Koshiba, and Tsuji. 3,046,633.
Koshoot, Henry F. Bubble-plate structure for rectification columns. 3,017,950, 1–23–62, Cl. 183—2.
Kosik, Samuel J., Jr.: *See*—
Robb, Frank B., and Kosik. 3,018,815.
Kosikowski, Frank V. Methods for detecting the presence of antibiotics. 3,063,916, 11–13–62, Cl. 195—103.5.
Kosinski, Felix W., Jr. Trailer hitch. 3,043,610, 7–10–62, Cl. 280—502.
Kosinsky, Edward J.: *See*—
Cines, Martin R., and Kosinsky. 3,030,330.

Koskinen, Onni S. Expanded metal fabric and method and apparatus for making same. 3,026,968, 3–27–62, Cl. 183—73.
Koslow, Sidney: *See*—
Brenner, William, and Koslow. 3,040,323.
Kosmider, Johannes: *See*—
Neuhaus, Herbert, Kosmider, and Weyel. 3,061,299.
Kosmin, Milton, to Monsanto Chemical Co. Alkylation with supported catalyst complex. 3,031,514, 4–24–62, Cl. 260—671.
Kosmin, Milton, to Monsanto Chemical Co. Isopropylbicyclohexyl fuel. 3,058,300, 10–16–62, Cl. 60—35.4.
Kosmin, Milton, and M. McEwen, to United States of America, Atomic Energy Commission. Art of cooling and moderating neutronic reactors. 3,041,261, 6–26–62, Cl. 204—154.2.
Kosonocky, Walter F.: *See*—
Onyshkevych, Lubomyr S., and Kosonocky. 3,055,039.
Kosonocky, Walter F., to Radio Corp. of America. Three state circuit. 3,027,464, 3–27–62, Cl. 307—88.5.
Kosonocky, Walter F., to Radio Corp. of America. Memory systems. 3,042,905, 7–3–62, Cl. 340—174.
Koss, Inc.: *See*—
Weeks, Richard A. 3,053,944.
Kossel, Dierick, to Leitz, Ernst, G.m.b.H. Photocathode for photocells, photoelectric quadrupler and the like. 3,043,976, 7–10–62, Cl. 313—94.
Kossor, Albert A., and W. G. Whitney, to McGraw-Edison Co. Telephone subscribers list finder and selector mechanism therefor. 3,034,241, 5–15–62, Cl. 40—53.
Kost, Guy A. Folding table. 3,037,639, 6–5–62, Cl. 211—86.
Koste, John A.: *See*—
Gard, Charles D. 3,064,929.
Kostelnick, Joseph J., to Bell Telephone Laboratories, Inc. Nonreciprocal electromagnetic device. 3,016,497, 1–9–62, Cl. 333—24.
Kostelnick, Joseph J., to Bell Telephone Laboratories, Inc. Microwave selective mode isolator. 3,017,577, 1–16–62, Cl. 330—56.
Kostelnick, Joseph J., to Bell Telephone Laboratories, Inc. Field displacement isolator. 3,035,235, 5–15–62, Cl. 333—24.
Kostenowczyk, Stanley, to The Singer Mfg. Co. Thread-chain holding and cutting device for sewing machines. 3,025,811, 3–20–62, Cl. 112—252.
Koster, Johannes A., to North American Philips Co., Inc. Tuning and overload indicator circuit. 3,024,361, 3–6–62, Cl. 250—20.
Koster, Johannes A., to North American Philips Co., Inc. Negative feedback circuit. 3,038,125, 6–5–62, Cl. 330—92.
Koster, Roland: *See*—
Ziegler, Karl, Koster, and Kroll. 3,066,162.
Köster, Roland, to Studiengesellschaft Kohle m.b.H. Process for the production of alkali metal and alkaline earth metal borohydrides. 3,035,891, 5–22–62, Cl. 23—14.
Köster, Roland, to Studiengesellschaft Kohle m.b.H. Process for the production of boron alkyls and of highly active aluminum oxide. 3,049,407, 8–14–62, Cl. 23—143.
Koster, Roland, to Studiengesellschaft Kohle m.b.H. Boron compounds containing hydrocarbon radicals, hydrogen and nitrogen, and a process for the production thereof. 3,068,-285, 12–11–62, Cl. 260—563.
Koster, Roland, and H. Buechl, to Studiengesellschaft Kohle m.b.H. Process for the production of diborane. 3,063,810, 11–13–62, Cl. 23—204.
Kosterlitzky, Siegfried: *See*—
Finke, Arno, and Kosterlitzky. 3,034,409.
Kostur, J Edward. Automatic vacuum forming machine for plastics. 3,025,566, 3–20–62, Cl. 18—19.
Koszta, Elmer: *See*—
Dunn, Earl F., and Koszta. 3,036,535.
Kota Products Inc.: *See*—
Steel, John F. 3,040,850.
Kotecki, Lawrence E.: *See*—
Kovasznay, Eugene A., and Kotecki. 3,055,380.
Kotecki, Stanley F., to Cyclo-Magic, Inc. Welding method and apparatus. 3,042,787, 7–3–62, Cl. 219—60.
Kothe, C. A.: *See*—
Robinson, John J. 3,016,315.
Kotkins, Harry L. Luggage construction. 3,023,867, 3–6–62, Cl. 190—41.
Kotler, Max, R. V. Nicolosi, and M. Belo, to Polaroid Corp. Photographic apparatus. 3,069,649, 12–18–62, Cl. 339—45.
Kotlin, James J.: *See*—
Addle, Albert N., and Kotlin. 3,043,092.
Kotowski, Joseph: *See*—
Kreekon, Nicholas, Lane, and Kotowski. 3,052,820.
Kotowski, Joseph D.: *See*—
Preiser, Ralph H., McNally, and Kotowski. 3,023,268.
Kotte, Jan, to North American Philips Co., Inc. Film guide for film projector. 3,045,538, 7–24–62, Cl. 88—17.
Kotte, Willy, to Vereinigte Glanzstoff-Fabriken AG. Apparatus for producing wound bobbins with controlled thread tension. 3,047,247, 7–31–62, Cl. 242—45.
Kottemann, Otto A., to Kushion Kooler Corp. Ventilating seat pad. 3,030,145, 4–17–62, Cl. 297—180.
Kottke, Roger H.: *See*—
Hathaway, Clayton E., Jr., Goetz, and Kottke. 3,046,-147.
Kottler, August: *See*—
Fischer, Franz G., Roch, and Kottler. 3,031,450.
Kottman, Joseph J., and R. C. Goodman, to General Aniline & Film Corp. Drive system for whiteprint machines. 3,033,-433, 5–8–62, Cl. 226—108.
Kottong, Gerald W.: *See*—
Brown, Palmer A., Kottong, Kraemer, and Limper. 3,053,875.
Kottong, Gerald W., to Ethyl Corp. Manufacture of trimethyl phosphate. 3,053,879, 9–11–62, Cl. 260—461.
Kottsieper, Edward, to Shur-Lok Corp. Nut and bolt lock with teeth to notch the bolt thread. 3,022,809, 2–27–62, Cl. 151—29.
Kottsieper, Edward, to United Aircraft Corp. Steam driven helicopter rotor head. 3,050,275, 8–21–62, Cl. 244—17.11.
Kotz, Arthur R.: *See*—
Nelson, Harold H., and Kotz. 3,038,994.
Kotz, Arthur R., R. H. Appeldorn, E. W. Grieshaber, E. J. Peterson, and N. L. Giorgini, to Minnesota Mining and Mfg. Co. Thermoprinting apparatus and method. 3,056,-904, 10–2–62, Cl. 315—241.
Kotzebue, Meinhard R., to Gasoline Plant Construction Corp. Fractionating apparatus. 3,022,054, 2–20–62, Cl. 261—114.
Kouba, Delore L., J. T. Paul, Jr., and F. S. Stow, Jr., to Hercules Powder Co. Preparation of nitrated toluene. 3,053,908, 9–11–62, Cl. 260—645.
Koulikovitch, Miron, to Societe Genevoise d'Instruments de Physique. Control device for the setting in exact position of a movable member. 3,037,156, 5–29–62, Cl. 318—22.
Koulikovitch, Miron, to Societe Genevoise d'Instruments de Physique. High precision reading device. 3,042,804, 7–3–62, Cl. 250—206.
Koulomzin, Nikita: *See*—
Sears, Kay G., Logue, and Koulomzin. 3,065,414.
Koup, Alfred L., to United States of America, Navy. Taxidrive for landing wheels. 3,034,748, 5–15–62, Cl. 244—50.
Koury, Frederic, to Sylvania Electric Products Inc. Light amplification and storage device. 3,059,118, 10–16–62, Cl. 250—213.
Koutnik, Ernest. Ladder dolly. 3,026,960, 3–27–62, Cl. 182—15.
Kouzmine, Eugene: *See*—
Pago, Maurice, and Kouzmine. 3,024,989.
Kovach, Julius W., to American Radiator & Standard Sanitary Corp. Non-thermal mixing valve. 3,021,868, 2–20–62, Cl. 137—607.
Kovach, Julius W., to American Radiator & Standard Sanitary Corp. Five temperature non-thermal mixing valve. 3,047,-014, 7–31–62, Cl. 137—607.
Kovach, Michael J.: *See*—
Firnhaver, Miles S., Miller, and Kovach. 3,048,886.
Kovach, Paul M.: *See*—
Cunningham, James M., and Kovach. 3,057,422.
Kovacik, Victor P., to Thompson Ramo Wooldridge Inc. Vapor generator utilizing heat of fusion. 3,069,527, 12–18–62, Cl. 219—38.
Kovacs, Joseph. Gameboard and game piece. 3,023,006, 2–27–62, Cl. 273—136.
Kovalovsky, Michael. Device for use in forming and retaining the shape of knots in ties. 3,026,529, 3–27–62, Cl. 2—153.
Kovarik, Frank J., to E. I. du Pont de Nemours and Co. Composite acrylonitrile fiber with negative reversible crimp. 3,038,240, 6–12–62, Cl. 28—82.
Kovarik, Frank J., and C. E. Latschar, to E. I. du Pont de Nemours & Co. Process of producing uniformly dyeing polyacrylonitrile filaments by heat stretching the water wetted filaments. 3,018,157, 1–23–62, Cl. 18—54.
Kovarik, Mojmir, to Commonwealth Scientific and Industrial Research Organization. Thermal transducers. 3,029,331, 4–10–62, Cl. 219—20.
Kovasznay, Erzsebet: *See*—
Kovasznay, Istvan and E. 3,058,829.
Kovasznay, Istvan, and E. Kovasznay (nee Troyko); E. Troyko, heir of said I. Kovasznay. Method for peeling and processing soy beans and apparatus therefor. 3,058,829, 10–16–62, Cl. 99—98.
Kovo-Finis, narodni podnik: *See*—
Navara, Vaclav. 3,030,982.
Kowalczyk, Walter, to Gadget-of-the-Month Club, Inc. Controllably extendable and retractable storing and carrying apparatus adapted to be mounted underneath a horizontal surface in an otherwise unused, unobstrusive location. 3,021,185, 2–13–62, Cl. 312—29.
Kowalewski, John J.: *See*—
Anderson, Emil, and Kowalewski. 3,052,588.
Kowalik, John J., and D. A. Walker, to International Harvester Co. Cotton harvester with auxiliary trash discharge means. 3,046,721, 7–31–62, Cl. 56—41.
Kowalik, John J., J. Syrutowicz, and R. A. Johnson, to International Harvester Co. Sickle for reciprocating mower. 3,066,468, 12–4–62, Cl. 56—301.
Kowalik, Ronald F., to Automatic Electric Laboratories, Inc. Communication switching network. 3,055,982, 9–25–62, Cl. 179—18.
Kowalk, Arthur J. Self-venting type needle. 3,063,451, 11–13–62, Cl. 128—221.
Kowalka, Warren R.: *See*—
Badger, Alfred E., Lehr, and Kowalka. 3,027,607.
Kowalowski, William, to Reserve Mining Co. Protective ring for crusher locking nut. 3,064,909, 11–20–62, Cl. 241—293.

Kowalskey, Raymond: *See*—
Newkirk, Floyd, and Kowalskey. 3,037,443.
Kowalski, Alexander, to Pennsalt Chemicals Corp. Novel phosphorus compounds and process. 3,023,194, 2–27–62, Cl. 260—79.3.
Kowalski, Chester M., to Lyon Inc. Pierce and flange die assembly. 3,053,210, 9–11–62, Cl. 113—42.
Kowalski, Joseph J., to The Yarder Mfg. Co. Frame for show cards. 3,016,642, 1–16–62, Cl. 40—152.
Kowalski, Slawomir, and J. G. Kenann, to Marotta Valve Corp. High pressure valve seat. 3,022,978, 2–27–62, Cl. 251—362.
Kowalyshyn, Stephen, Jr.: *See*—
Daly, Thomas A., and Kowalyshyn. 3,053,217.
Jones, Leonard S., Kowalyshyn, and Stene. 3,033,147.
Kowalyshyn, Stephen, T. A. Daly, and D. A. Cooke, to United States of America, Navy. Depth steering synchro assembly. 3,045,626, 7–24–62, Cl. 114—25.
Kowles, Edward R., to American Can Co. Apparatus for vacuum-forming dished and flat articles. 3,027,596, 4–3–62, Cl. 18—19.
Koyo Seiko Co., Ltd.: *See*—
Hida, Yozo. 3,034,462.
Koza, John J.: *See*—
Ott, John E., Koza, and Novy. 3,027,788.
Kozacka, Arthur G., to Acme Industrial Co. Controls for turret lathes and the like. 3,060,466, 10–30–62, Cl. 10—128.
Kozacka, Frederick J., to The Chase-Shawmut Co. Semiconductor rectifiers. 3,017,558, 1–16–62, Cl. 321—14.
Kozacka, Frederick J., to The Chase-Shawmut Co. Fuse structures. 3,020,372, 2–6–62, Cl. 200—131.
Kozacka, Frederick J., to The Chase-Shawmut Co. Time-lag fuses. 3,029,328, 4–10–62, Cl. 200—120.
Kozak, Edward J. Music timing devices. 3,051,034, 8–28–62, Cl. 84—465.
Kozakiewicz, Bernie A.: *See*—
Wright, Palmer W., Kozakiewicz, and Roche. 3,043,785.
Kozelj, Marijan L. M.: *See*—
Berke, Hans J. O., and Kozelj. 3,069,861.
Kožený, Olaf: *See*—
Kohoutek, Jindrich, and Kozený. 3,047,691.
Kozikowski, John, to Ethyl Corp. Process for producing cyclomatic manganese tricarbonyl compounds. 3,015,668, 1–2–62, Cl. 260—429.
Kozinski, Richard R.: *See*—
Benfield, John D., and Kozinski. 3,063,314.
Koziura, Frank G., to General Motors Corp. Turbine mounting construction. 3,067,983, 12–11–62, Cl. 253—78.
Kozlay, Glenn: *See*—
Ellman, Julius, and Kozlay. 3,036,832.
Kozlik, Milan S. Divisible box. 3,039,667, 6–19–62, Cl. 229—15.
Kozlovic, John M., and R. E. Wobrak, to Westinghouse Electric Corp. Levering mechanism for metal-clad switchgear. 3,030,463, 4–17–62, Cl. 200—50.
Kozlowski, Robert H., to California Research Corp. Removal of an undecane-rich fraction from a hydrocarbon conversion process recycle. 3,044,953, 7–17–62, Cl. 208—109.
Kozma, Otto, to Ibis Enterprises Ltd. Fiber depositor and method for distributing cut fiber and plastic. 3,025,195, 3–13–62, Cl. 83—24.
Kraaijeveld, Adriaan: *See*—
De Jongh, David K., Kraaijeveld, van Leeuwen, and Michels. 3,026,321.
Kraaijeveld, Pieter J.: *See*—
Hermsen, Johannes, Kraaijeveld, and Warmoltz. 3,047,760.
Krabacher, Roy A., E. W. Waters, and H. E. Kamps, to General Electric Co. Flameholder configuration. 3,056,261, 10–2–62, Cl. 60—39.72.
Krabbe, Ulrik. Self-excited synchronous generator. 3,025,450, 3–13–62, Cl. 322—28.
Krabbe, Ulrik H., and H. M. Sorensen, to Allis-Chalmers Mfg. Co. Stacked magnetic core having magnetization curve with sharp knee. 3,017,591, 1–16–62, Cl. 336—215.
Kracht, Clyde N.: *See*—
McDaniel, Billy B., and Kracht. 3,058,122.
Krack, Elmer J., to Gulf Research & Development Co. Automatic gain control circuit. 3,024,408, 3–6–62, Cl. 323—66.
Kracker, Herbert, F. Bauer, and W. Kirst, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Azo-dyestuffs insoluble in water. 3,037,974, 6–5–62, Cl. 260—160.
Kradoska, Edward C. Drum testing apparatus. 3,033,024, 5–8–62, Cl. 73—49.2.
Kraeling, John B., and L. H. Coon, to Drafto Corp. Rotary hook for traveling block for cranes. 3,037,804, 6–5–62, Cl. 294—82.
Kraemer, Herbert F.: *See*—
Brown, Palmer A., Kottong, Kraemer, and Limper. 3,053,875.
Kraemer, Kenneth: *See*—
Genser, Theodore, Kraemer, and Levin. 3,055,545.
Kraemer, Kenneth E.: *See*—
Millar, Donald O., and Kraemer. 3,020,053.
Kraemer, Rolf: *See*—
Hurlesaus, Reinhold, and Kraemer. 3,037,249.
Kraemer, William D.: *See*—
Dike, Melville A. 3,051,632.
Krafft, Frederick B., and F. K. Roberts, to Anaconda Wire and Cable Co. Packaging wire. 3,042,336, 7–3–62, Cl. 242—83.
Krafft, Frederick G.: *See*—
Baldenhofer, William G., and Krafft. 3,047,987.
Krafft, Frederick G., and W. Ernst, to The Thompson Grinder Co. Pump control. 3,015,212, 1–2–62, Cl. 60—52.
Kraft, August L. Heater and utilization system for converting small quantities of fusible solids. 3,032,633, 5–1–62, Cl. 219—19.
Kraft, El Roy J., to The Dole Valve Co. Concentrate proportioner. 3,016,916, 1–16–62, Cl. 137—604.
Kraft, Harold D.: *See*—
Kraft, Jack A. and H. D. 3,061,280.
Kraft, Herman T., to The General Tire & Rubber Co. Apparatus for supplying ply fabric to a tire building drum. 3,017,312, 1–16–62, Cl. 156—361.
Kraft, Herman T., to The General Tire & Rubber Co. Expansible bag. 3,018,213, 1–23–62, Cl. 156—416.
Kraft, Jack A. and H. D., to Kraft Scientific Corp. Apparatus for mixing fluent material. 3,061,280, 10–30–62, Cl. 259—72.
Kraft, Ralph G.: *See*—
Beaudoin, Leonard W., Kraft, and Steinbrecher. 3,046,226.
Kraft, Rupert, to Maschinenfabrik Johannes Zimmer. Apparatus for treating sheet materials. 3,067,718, 12–11–62, Cl. 118—58.
Kraft Scientific Corp.: *See*—
Kraft, Jack A. and H. D. 3,061,280.
Krag, Niels, to D. L. Loew, Jr. Automatic feeding apparatus. 3,031,109, 4–24–62, Cl. 222—252.
Krageloh, Werner: *See*—
Hiller, Rolf, Rutkowski, Krägeloh, Voegtlen, and Zahlhaas. 3,051,793.
Kragle, Harry A., to Corning Glass Works. Magnetic separator. 3,033,369, 5–8–62, Cl. 209—223.
Krahn, Donald J. Barn floor cleaner. 3,021,819, 2–20–62, Cl. 119—22.
Krahn, Vincent F., to Ford Motor Co. Forage harvester. 3,026,660, 3–6–62, Cl. 56—23.
Krahnke, Harold C., and W. E. Becker, to Lakeside Laboratories, Inc. Tablets containing hydrazine derivatives. 3,033,754, 5–8–62, Cl. 167—82.
Krajewski, Edward Z.: *See*—
Copsey, David A., and Krajewski. 3,048,928.
Krajowsky, Michael: *See*—
Clark, James A., and Krajowsky. 3,028,791.
Krajowsky, Michael, and E. L. Turner, to Bausch & Lomb Inc. Variable power spotting telescope. 3,028,792, 4–10–62, Cl. 88—32.
Krakau, Werner S., and T. E. Olver, to United States of America, Army. Tuned H.-F. transformer with improved balanced output. 3,031,632, 4–24–62, Cl. 336—87.
Krakauer, Merrill, P. Katz, and H. F. Fischer, to Rowe Mfg. Co., Inc. Multilevel gravity-feed package-merchandising machine. 3,055,544, 9–25–62, Cl. 221—14.
Krakauer, Merrill, and J. J. Ambrose, to Rowe Mfg. Co., Inc. Manual console cigarette merchandising machine. 3,058,613, 10–16–62, Cl. 221—6.
Krakauer, Sidney: *See*—
Pall, David B., and Krakauer. 3,048,537.
Krake, Ludwig W., to Scovill Mfg. Co. Radiator filler neck. 3,070,255, 12–25–62, Cl. 220—40.
Krakinowski, Morris, and P. C. Michel, to The Teleregister Corp. Permutationally controlled track selector for multitrack recording and read-out systems. 3,052,874, 9–4–62, Cl. 340—174.1.
Krakora, James J., Jr.: *See*—
Frihart, Henry N., and Krakora. 3,044,016.
Kral, Frank, to The trustees of the University of Pennsylvania. Method of treating mange. 3,029,185, 4–10–62, Cl. 167—53.
Kralik, Andrew J., and B. Di Marco, to Square D Co. Thermal and magnetic trip device. 3,061,697, 10–30–62, Cl. 200—88.
Krall, George A.: *See*—
Romens, Carroll F., and Krall. 3,067,443.
Krallmann, Reinhold: *See*—
Baumann, Hans, Leuchs, and Krallmann. 3,070,592.
Schoellig, Alfred, Roessler, and Krallmann. 3,036,876.
Kralowetz, Bruno. Forging machine. 3,028,775, 4–10–62, Cl. 78—21.
Kralowetz, Bruno. Forging machine. 3,045,515, 7–24–62, Cl. 78—20.
Kralowetz, Bruno. Workpiece supporting device. 3,055,513, 9–25–62, Cl. 214—1.
Kralt, Teunis, and J. van Dijk, to North American Philips Co., Inc. Primary, secondary and tertiary amines having a spasmolytic effect and method of producing these compounds. 3,046,280, 7–24–62, Cl. 260—293.
Kralt, Teunis, and J. van Dijk, to North American Philips Co., Inc. Alkylene di-amines. 3,053,894, 9–11–62, Cl. 260—563.
Kralt, Teunis, and H. D. Moed, to North American Philips Co., Inc. New secondary and tertiary indolylethylamines. 3,067,206, 12–4–62, Cl. 260—319.
Kramar, Ernst: *See*—
Steiner, Fritz, and Kramar. 3,054,105.
Kramarsky, Bernhard. Method of preparing magnetic garnet crystals. 3,051,656, 8–28–62, Cl. 252—62.5.

Kramcsak, Michael, Jr.: *See*—
Clinton, Edwin T., and Kramcsak. 3,066,764.
Fontana, Frank J., and Kramcsak. 3,065,494.
Hefferon, Edward J., and Kramcsak. 3,065,495.
Kramcsak, Michael, Jr., to The Bassick Co. Caster glide. 3,021,551, 2–20–62, Cl. 16—42.
Kramcsak, Michael, Jr., and F. J. Fontana, to The Bassick Co. Truck locks. 3,024,870, 3–13–62, Cl. 188—5.
Kramer, Bruce E., to United States of America, Air Force. Jet turbine buckets and method of making the same. 3,032,316, 5–1–62, Cl. 253—77.
Kramer, Bruce E., to United States of America, Air Force. Method of making jet turbine buckets. 3,068,556, 12–18–62, Cl. 29—156.8.
Kramer, Clarence F., to Ford Motor Co. Battery hold-down. 3,033,304, 5–8–62, Cl. 180—68.5.
Kramer, Fred A., Jr. Air barrier. 3,023,688, 3–6–62, Cl. 98—36.
Kramer, Henry P., to Bell Telephone Laboratories, Inc. Multiplex signaling system. 3,046,346, 7–24–62, Cl. 179—15.
Krämer, Herman. Centrifugal pump with canned motor. 3,031,973, 5–1–62, Cl. 103—87.
Krämer, Hermann, and E. Herr. Pump unit with canned electric motor. 3,067,690, 12–11–62, Cl. 103—87.
Kramer, Hyman. Method of assembling T-shaped fasteners to webbing strips. 3,039,184, 6–19–62, Cl. 29—417.
Kramer, Hyman. Web-to-tube fastenings. 3,042,113, 7–3–62, Cl. 160—404.
Kramer, Joseph. Utility cup holder for attachment to aluminum chairs or the like. 3,021,106, 2–13–62, Cl. 248—226.
Kramer, Justin A. Single keyboard electronic carillon. 3,046,826, 7–31–62, Cl. 84—1.11.
Kramer, Karl A. Self service elevator with simplified mechanism. 3,036,665, 5–29–62, Cl. 187—29.
Kramer, Karl-Heinz: *See*—
Winkler, Viktor, Goebbels, and Kramer. 3,025,738.
Kramer, Kenneth C.: *See*—
Meyers, Raymond I., and Kramer. 3,018,072.
Kramer, Lawrence I., to McCall Corp. Demand feeding apparatus. 3,027,021, 3–27–62, Cl. 214—8.5.
Kramer, Lewis. All purpose slipper. 3,015,170, 1–2–62, Cl. 36—9.
Kramer, Lewis. Slipper. 3,052,046, 9–4–62, Cl. 36—9.
Kramer, Lloyd B., A. H. Kasberg, Jr., and J. G. Landkrohn, to Westinghouse Electric Corp. Welding apparatus and method. 3,018,357, 1–23–62, Cl. 219—72.
Kramer, Marvin, and A. H. Zazove, to General Classics, Inc. Trophy figure mounting means. 3,027,670, 4–3–62, Cl. 41—10.
Kramer, Max J., to Aluminum Co. of America. Differential direct current responsive control system. 3,019,373, 1–30–62, Cl. 317—13.
Kramer, Ned F. Ladder. 3,026,962, 3–27–62, Cl. 182—23.
Kramer, Robert G., to Diamond National Corp. One-piece carton for protecting fragile articles. 3,059,830, 10–23–62, Cl. 229—39.
Kramer, Robert L.: *See*—
Gex, Virgil E., and Kramer. 3,057,127.
Kramer, Rolf W., and K. Schrotz, to SKF kugellagerfabriken Gesellschaft mit beschrankter Haftung. Drafting mechanism for textiles. 3,038,213, 6–12–62, Cl. 19—131.
Kramer, Solomon. Magnetic razors. 3,031,757, 5–1–62, Cl. 30—74.
Kramer, Stanley I., to Fairchild Stratos Corp. Passive range system. 3,040,315, 6–19–62, Cl. 343—101.
Kramer, Udo, R. Lehnartz, R. Schwerdtfeger, and F. Suchetzki, to Joh. Vaillant K.G. Securing clips for bunsen burners. 3,052,386, 9–4–62, Cl. 158—106.
Kramer, Walter E.: *See*—
Joo, Louis A., Kramer, and Szawlowski. 3,056,773.
Kramer, Walter E., and L. A. Joo, to The Pure Oil Co. Nitrogen-containing epoxy resins. 3,056,763, 10–2–62, Cl. 260—77.5.
Kramer, Wilhelm. Method of preparing wire for wired glass. 3,053,686, 9–11–62, Cl. 117—7.
Kramis, Charles J.: *See*—
Aulbaugh, Johnnie M., Kramis, and Siefen. 3,020,313.
Kraml, Michael: *See*—
Humber, Leslie G., and Kraml. 3,031,468.
Humber, Leslie G., and Kraml. 3,031,474.
Kramlich, Richard G., to Fuller Co. Conveying apparatus. 3,019,057, 1–30–62, Cl. 302—52.
Krammes, Don C., to The Hoover Co. Suction cleaning apparatus. 3,040,362, 6–26–62, Cl. 15—320.
Krammes, Don C., and L. E. Segesman, to The Hoover Co. Suction floor washer. 3,040,363, 6–26–62, Cl. 15—320.
Krammes, Don C., to The Hoover Co. Floor scrubber. 3,060,484, 10–30–62, Cl. 15—320.
Kramp, Kurt M., to Raytheon Co. Systems for the measurement of sea state and the like. 3,016,529, 1–9–62, Cl. 343—5.
Krampf, Margaret B.: *See*—
Graham, Paul N., and Krampf. 3,058,352.
Kramskoy, Charles M., to Electric & Musical Industries Ltd. Apparatus for multiplying binary numbers. 3,033,456, 5–8–62, Cl. 235—164.
Kramskoy, Charles M., to Electric & Musical Industries Ltd. Matrix storage devices. 3,069,658, 12–18–62, Cl. 340—172.5.
Kranc, Casimir, and A. Carrick, to Victrylite Candle Co. Candle molding machine. 3,034,174, 5–15–62, Cl. 18—27.
Kranc, Casimir, and A. Carrick, to Victrylite Candle Co. Method for reshaping a dipped candle. 3,058,163, 10–16–62, Cl. 18—48.
Kranc, Joseph: *See*—
Hallow, William C., Lion, Kranc, Custis, and Scutti. 3,032,301.
Krane, Bronnie F.: *See*—
Davis, Floyd E., and Krane. 3,054,497.
Kranitz, Arthur, and J. R. Kellner, to Banner Welder, Inc. Automatic arc welders. 3,041,444, 6–26–62, Cl. 219—125.
Krantz, Hubert K.: *See*—
Jacobson, Oscar D., and Krantz. 3,056,868.
Kranz, Joachim: *See*—
Weidinger, Hans, and Kranz. 3,065,238.
Kranz, Peter, to General Electric Co. Evaporative cooler. 3,041,978, 7–3–62, Cl. 103—103.
Kranzlein, Paul: *See*—
Frese, Albert, Broich, and Kranzlein. 3,043,825.
Krapcho, John, to Olin Mathieson Chemical Corp. N-(2-imino-2-phenylethyl) amines and a process for their preparation. 3,068,236, 12–11–62, Cl. 260—293.4.
Krapf, Herman C.: *See*—
Pastoret, John E., and Krapf. 3,069,606.
Kraschinsky, Theodore, Jr., and G. C. Lutsch, to Cutler-Hammer, Inc. Sequence indicating and control system. 3,062,-923, 11–6–62, Cl. 203—19.
Krasik, Sidney: *See*—
Slack, Charles M., Roman, and Krasik. 3,039,945.
Krasin, Lester Q.: *See*—
Donell, Lawrence E., and Krasin. 3,065,524.
Krasnow, Marvin E.: *See*—
Roy, Gerald R., and Krasnow. 3,028,355.
Krasny, Hubert, to Argus, Inc. Motion picture projector. 3,059,527, 10–23–62, Cl. 88—17.
Kraszeski, Arthur. Apparatus for producing openwork plastic sheet material and the like. 3,042,968, 7–10–62, Cl. 18—15.
Kratz, Adolf P., to Metallgesellschaft Aktiengesellschaft. Process of purifying water with activated carbon. 3,017,347, 1–16–62, Cl. 210—63.
Kratzenberger, Karl. Catalytic table lighters. 3,044,284, 7–17–62, Cl. 67—7.
Kratzer, Blair S., to The Garrett Corp. Hoist. 3,048,370, 8–7–62. Cl. 254—150.
Kratzer, James C., W. L. Kennedy, and F. G. Balfe, Jr., to Union Carbide Corp. Dust and liquid spray device. 3,054,-210, 9–18–62, Cl. 43—147.
Kraus, Anthony A.: *See*—
Dellenbaugh, John L., Hackbarth, Kraus, and Swywulka. 3,066,244.
Kraus, Charles J.: *See*—
Blumberg, Rex H., and Kraus. 3,021,434.
Kraus, Edmund J.: *See*—
Evans, Robert A. and E. J. 3,060,787
Kraus, Edmund J., and R. A., to Kirk-Wing Co. Fastener. 3,019,501, 2–6–62, Cl. 24—213.
Kraus, Franz: *See*—
Brenner, Paul, Kraus, and Schulte. 3,061,447.
Kraus, Gerard, and K. W. Rollmann, to Phillips Petroleum Co. Alcoholic carbon black slurries and latex-carbon black masterbatches. 3,021,226, 2–13–62, Cl. 106—238.
Kraus, Gerard, and J. Dugone, to Phillips Petroleum Co. Alcoholic carbon black slurries and method of preparing rubber-carbon black masterbatches therewith. 3,023,188, 2–27–62, Cl. 260—41.5.
Kraus, Harold. Specific gravity measuring device. 3,045,-496, 7–24–62, Cl. 73—433.
Kraus, James J., and K. C. Martiny, to Kimberly-Clark Corp. Papermaking machine. 3,061,944, 11–6–62, Cl. 34—110.
Kraus, John W., and E. W. Stern, to The M. W. Kellogg Co. Separation of butadiene from hydrocarbon mixtures. 3,070,642, 12–25–62, Cl. 260—681.5.
Kraus, Karl J., deceased (by C. E. Roop, administrator), to J. F. Schuyler. Headache remedy containing ammonia. 3,050,443, 8–21–62, Cl. 167—54.
Kraus, Max R.: *See*—
Horning, Oliver P. 3,050,931.
Kraus, Mirabeau M.: *See*—
Evans, Norman R. 3,058,103.
Kraus, Otto K.: *See*—
Ausnit, Steven, and Kraus. 3,054,434.
Kraus, Robert A.: *See*—
Kraus, Edmund J., and R. A. 3,019,501.
Kraus, Robert A. and E. J., to Deutsch Fastener Corp. Quick operable fastener with coil spring retaining means. 3,060,-787, 10–30–62, Cl. 85—33.
Kraus, Thaddäus, and P. Rheinberger, to Balzers Patent- und Lizenz-Anstalt. Use of a rare earth metal in vaporizing metals and metal oxides. 3,034,924, 5–15–62, Cl. 117—106.
Kraus, Wilhelm J., and W. Steinemann, to Sandoz Ltd. Metallized disazo dyes. 3,041,328, 6–26–62, Cl. 260—176.
Krause, A. Frank, Jr.: *See*—
Williams, Paul E. 3,065,933.
Krause, Carl H., to Associated Products and Service Co. Universal circuits interconnector. 3,065,439, 11–20–62, Cl. 339—18.
Krause, Charles A.: *See*—
Mendelson, Myron J., and Krause. 3,035,770.
Krause, Charles A., and M. R. Emerson, to United Aircraft Corp. Digital comparator and digital-to-analogue converter. 3,066,867, 12–4–62, Cl. 235—177.

Krause, Charles T., to General Motors Corp. Automatic washer with control means for liquid supply and heating. 3,015,944, 1–9–62, Cl. 68—12.

Krause, Chas. A., Milling Co.: *See*—
Wimmer, Ernest L., and Devitt. 3,022,174.

Krause, Frank R., to Blaw-Knox Co. Tube rolling machine. 3,030,835, 4–24–62, Cl. 80—14.

Krause, Fred E.: *See*—
Kirkpatrick, James S., and Krause. 3,044,166.

Krause, Heinrich: *See*—
Hagge, Walter, Krause, Quaedvlieg, Schlachter, and Schönol. 3,065,110.

Krause, Herbert: *See*—
Korab, George, and Krause. 3,026,132.

Krause, Herbert, to Chicago Forging and Mfg. Co. Self adjusting dual latch. 3,026,131, 3–20–62, Cl. 292—11.

Krause, Herbert, to Chicago Forging and Mfg. Co. Method of installing hinge. 3,059,328, 10–23–62, Cl. 29—404.

Krause, John T., to Bell Telephone Laboratories, Inc. Vapor deposition apparatus. 3,017,851, 1–23–62, Cl. 118—49.

Krause, Leonard: *See*—
Bell, Angus S., Krause, and Hammerschmidt. 3,025,187.

Krause, Lloyd O., and R. E. Fisk, to General Electric Co. Side-fire helical antenna with conductive support. 3,066,295, 11–27–62, Cl. 343—874.

Krause, Victor B., to Olin Mathieson Chemical Corp. Container and method of forming. 3,048,264, 8–7–62, Cl. 206—45.33.

Krause, Walter, W. Fischer, R. Wirtz, and H. Schilken, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Device for carrying out chemical reactions at high temperatures. 3,047,371, 7–31–62, Cl. 23—277.

Krause, Walter W.: *See*—
Braski, Raymond J., and Krause. 3,019,320.

Krauskopf, Wilhelm, to Zeiss Ikon Aktiengesellschaft. Device for intermittently moving a slide magazine. 3,059,360, 10–23–62, Cl. 40—79.

Krauss, Bernice H. Hair curler. 3,035,588, 5–22–62, Cl. 132—42.

Krauss, Carl. Massage apparatus and couch assembly. 3,019,786, 2–6–62, Cl. 128—33.

Krauss, Carl. Exercising device. 3,063,714, 11–13–62, Cl. 272—57.

Krauss, Donald M., to General Electric Co. Balanced modulator. 3,040,274, 6–19–62, Cl. 332—48.

Krauss, Hans, to J. M. Voith, G.m.b.H. Control system for fluid flow machines especially Kaplan turbines. 3,030,070, 4–17–62, Cl. 253—31.

Krauss, Hans, to J. M. Voith G.m.b.H. Control system for pipe line turbines. 3,063,460, 11–13–62, Cl. 137—25.

Krauss-Maffei Aktiengesellschaft: *See*—
Hartman, Kurt, Husing, Seidel, Deppe, and Gredigk. 3,057,008.

Krauss, Paul: *See*—
Johnston, Frank C., and Krauss. 3,023,032.
Johnston, Frank C., and Krauss. 3,034,753.
Johnston, Frank C., and Krauss. 3,042,889.

Krauss, Paul, and F. C. Johnston, to General Electric Co. Busway system. 3,031,521, 4–24–62, Cl. 174—88.

Krauss, Paul H.: *See*—
Overkamp, William A., Jr., Kraus, and Klingensmith. 3,044,015.

Krauss & Reichert, Spezialmaschinenfabrik und Apparatebau: *See*—
Blanz, Kurt. 3,021,999.

Krauss, Serge L., to C. G. Conn Ltd. Tone generator with selective switching means. 3,048,792, 8–7–62, Cl. 331—61.

Krauss, Serge L., and C. J. Tennes, to C. G. Conn, Ltd. Percussive type electric musical instrument. 3,039,347, 6–19–62, Cl. 84—1.26.

Krausser, Heinz: *See*—
Vogler, Heinrich, and Krausser. 3,050,892.

Kraust, Rudolf, and W. Strobelt, to Siemens & Halske Aktiengesellschaft Berlin and Munich. Telephone connector switch of the relay type. 3,019,298, 1–30–62, Cl. 179—18.

Krausz, Alfred, to The Siegler Corp. Static excitation system for generators. 3,032,701, 5–1–62, Cl. 322—25.

Krausz, Allan E. Air heater with air flow sensing device. 3,027,889, 4–3–62, Cl. 126—110.

Kraut, Herman G., to The Stanley Works. Package and method of forming same. 3,031,072, 4–24–62, Cl. 206—80.

Krauthamer, Charles. Motor control device for industrial stitching machine. 3,053,108, 9–11–62, Cl. 74—491.

Krautkrämer, Adam: *See*—
Krautkramer, Gunther. 3,026,931.

Krautkramer, Gunther, to A. Krautkrämer. Outdoor heating stove. 3,026,931, 3–27–62, Cl. 158—91.

Krautter, Willy F.: *See*—
Kamm, Wunibald I. E., Staiger, and Krautter. 3,036,588.

Kravitt, Irwin H. Canes for blind persons. 3,029,828, 4–17–62, Cl. 135—47.

Kravitz, Harry. Supporting garment for the groin and abdominal areas. 3,029,814, 4–17–62, Cl. 128—159.

Kravitz, Harvey. Bacteriologic culture apparatus. 3,065,150, 11–20–62, Cl. 195—139.

Kravitz, Harvey, and N. Lettvin. Vaccinating devices. 3,062,212, 11–6–62, Cl. 128—253.

Krawacki, Michael J., to Trojan Corp. Rotary motion apparatus. 3,033,122, 5–8–62, Cl. 103—139.

Krawacki, Michael J., to Trojan Corp. Camming means for rotary motion apparatus. 3,065,709, 11–27–62, Cl. 103—139.

Krawacki, Michael J. to Trojan Corp. Vane mounting means for rotary motion apparatus. 3,065,710, 11–27–62, Cl. 103—139.

Krawetzke, Elmer J., and H. Peters, to Owens-Illinois Glass Co. Handling of hot glass. 3,025,638, 3–20–62, Cl. 49—14.

Krawitz, Max: *See*—
Burdick, Glen A., and Krawitz. 3,024,380.

Kray, Raymond J., and C. A. Defazio, to Celanese Corp. of America. Trioxane copolymers. 3,026,299, 3–20–62, Cl. 260—67.

Krayenbuhl, Charles H.: *See*—
Foulsen, Jakob E., and Krayenbuhl. 3,060,093.

Krebaum, Lawrence J., to Monsanto Chemical Co. Production of nitriles. 3,055,738, 9–25–62, Cl. 23—151.

Krebs, Donald R. Electric cord connector. 3,030,601, 4–17–62, Cl. 339—75.

Krebs, Harrison F., to Thompson Ramo Wooldridge Inc. Direct current to alternating current adapter for rotary solenoid. 3,040,216, 6–19–62, Cl. 317—156.

Krebs, Josef, to Rohm & Haas G.m.b.H. Process for the preparation of dextrine and dextrine-like derivatives from starch. 3,029,192, 4–10–62, Cl. 195—17.

Krebs, Willi. Porous electrodes. 3,055,963, 9–25–62, Cl. 136—51.

Krecek, Joseph A.: *See*—
Knaudel, George J., and Krecek. 3,036,150.

Kreeker, Nicholas, and W. H. Lane, to Allis-Chalmers Mfg. Co. Enclosed switchboard employing switch carrier for dismantling transformers. 3,015,756, 1–2–62, Cl. 317—103.

Kreekon, Nicholas, W. H. Lane, and J. Kotowski, to Allis-Chalmers Mfg. Co. Transformer tilt out trunnion arrangement for enclosed cubicle use. 3,052,820, 9–4–62, Cl. 317—99.

Krefft, Hermann E., to Kuthe Laboratories, Inc. Cathode structure. 3,025,428, 3–13–62, Cl. 313—244.

Krefft, Hermann E., to Kuthe Laboratories, Inc. Anode structure. 3,048,727, 8–7–62, Cl. 313—39.

Kregel, Ralph E., to Detroit Stamping Co. Toggle clamp opening mechanism. 3,051,028, 8–28–62, Cl. 81—351.

Krehbiel, Robert D., to Cessna Aircraft Co. Control valve for multiple valve banks. Re. 25,147, 3–27–62, Cl. 137—622.

Krehbiel, Robert D., to Cessna Aircraft Co. Anti-cavitation control system and valve. 3,033,233, 5–8–62, Cl. 137—622.

Krehbiel, Vivian D. Processing equipment for photography. 3,067,667, 12–11–62, Cl. 95—95.

Kreider, David B., and F. M. Delgadillo, to Shur-Lok Corp. Honeycomb spacer stud and interlocking grommet. 3,041,912, 7–3–62, Cl. 85—1.

Kreider, Leonard C., and N. S. Mason, to Goodrich-Gulf Chemicals, Inc. Manufacture of alkyl aluminum sesquihalides. 3,064,027, 11–13–62, Cl. 260—448.

Kreidl, Werner H.: *See*—
Vieli, Otto A. 3,043,670.
Vieli, Otto A. 3,063,952.

Kreidler, Carl H. Window cleaning device. 3,023,442, 3–6–62, Cl. 15—220.

Kreier, George J., Jr. Method of making plastic bas-reliefs. 3,061,900, 10–16–62, Cl. 156—245.

Kreigh, Jack R., and J. K. Gibson. Metal-aggregate product. 3,055,763, 9–25–62, Cl. 106—71.

Krein, John H.: *See*—
Ott, William F., Krein, and Carlson. 3,043,572.

Kreinberg, Earl R.: *See*—
Boscia, Salvatore, and Kreinberg. 3,054,954.

Kreiskott, Horst: *See*—
Meiser, Werner, Breitner, Wirth, and Kreiskott. 3,057,778.
Wollweber, Hartmund, Hiltmann, Wirth, and Kreiskott. 3,046,298.

Kreisler, Robert I., W. E. Evans, Jr., and D. L. Skaar, to General Dynamics Corp. Apparatus for indicating the liquid or gaseous state of a fluid. 3,068,459, 12–11–62, Cl. 340—236.

Kreisman, Wallace S., to United States of America, Air Force. Gas pressure measurement and identification. 3,057,203, 10–9–62, Cl. 73—398.

Kreisman, Wallace S., to United States of America, Air Force. Gas pressure measurement. 3,057,204, 10–9–62, Cl. 73—398.

Kreitner, William I. Safety-match box. 3,022,884, 2–27–62, Cl. 206—36.

Kreitner, Frederick J.: *See*—
Miner, Richard Y., Davenport, and Kreitner. 3,049,808.

Krejci, Joseph C., to Phillips Petroleum Co. Pyrolytic conversion of paraffins. 3,018,309, 1–23–62, Cl. 260—679.

Krekeler, Claude B., to The Cincinnati Mine Machinery Co. Socket member and resilient retainer for cutter bits. 3,057,609, 10–9–62, Cl. 262—33.

Krellner, Walter G., to Stackpole Carbon Co. High altitude brush. 3,063,947, 11–13–62, Cl. 252—506.

Kremel, Viktor, and J. Bouchal, to Svit, narodni podnik. Multi-purpose shoe manufacturing machine. 3,040,348, 6–26–62, Cl. 12—37.

Kremen, Seymour S., and R. L. Southwood, to Leather Research Corp. Method of dehydrating hides. 3,048,929, 8–14–62, Cl. 34—9.

Kremer, Henry. Strengthening of metal. 3,038,248, 6–12–62, Cl. 29—419.

Kremer, Hoyt E., and K. P. Denisty, to The Rapids-Standard Co., Inc. Perforated structural angle. 3,043,409, 7–10–62, Cl. 189—34.

Kremer, Joseph H., and J. Ashford. Electric hair dryer. 3,027,654, 4–3–62, Cl. 34—96.

Kremer, Vincent W., and J. Rowbottom, to E. I. du Pont de Nemours and Co. Process for the production of acrylonitrile from acetylene and hydrogen cyanide. 3,053,881, 9–11–62, Cl. 260—465.3.

Kremers, Henry E.: *See*—
Carse, Clifford C., and Kremers. 3,070,254.

Kremiller, Arthur E.: *See*—
Beckman, William R., and Kremiller. 3,056,964.

Kremp, Rudolf, to Agfa Aktiengesellschaft, Firma. Aperture calculating structure for cameras. 3,067,663, 12–11–62, Cl. 95—44.

Kremp, Rudolf, and P. Frost, to Agfa Aktiengesellschaft. Projector. 3,017,805, 1–23–62, Cl. 88—26.

Krenke, Norman O., and E. D. Swenson, to Baker Perkins Inc. Pneumatic conveyor system. 3,030,153, 4–17–62, Cl. 302—17.

Krenzke, Fred J., to The Dow Chemical Co. Anode assembly for electrolytic cell. 2,016,343, 1–9–62, Cl. 204—280.

Kreps, Saul I., to Van Dyk & Co., Inc. Skin-protecting sunscreening preparation. 3,058,886, 10–16–62, Cl. 167—90.

Kreps, Saul I., to Van Dyk & Co., Inc. Sun screening method using acetylated *p*-amino-cinnamates. 3,065,144, 11–20–62, Cl. 167—90.

Kreps, Saul I., E. Ohlsson, and D. Epstein, to Van Dyk & Co., Inc. Method of protecting the skin from ultraviolet radiation. 3,032,275, 4–17–62, Cl. 167—90.

Krespan, Carl G., to E. I. du Pont de Nemours and Co. Polyfluorinated heterocyclic sulfides. 3,052,691, 9–4–62, Cl. 260—327.

Krespan, Carl G., to E. I. du Pont de Nemours and Co. Preparation of iodo fluorocarbons. 3,052,732, 9–4–62, Cl. 260—648.

Krespan, Carl G., to E. I. du Pont de Nemours and Co. Process for preparing fluorine-substituted 2,5-dihydrothiophenes. 3,069,431, 12–18–62, Cl. 260—332.5.

Kress, Bernard H., to Quaker Chemical Products Corp. Textile finishing composition comprising an aqueous dispersion of the interaction product of urea, formaldehyde, a fatty acid amide and a primary amine. 3,051,674, 8–28–62, Cl. 260—29.4.

Kress, E. F., Sohne: *See*—
Thiel, Johann, and Beyer. 3,060,545.

Kressin, William E. Trimming machine for onions or the like. 3,062,250, 11–6–62, Cl. 146—83.

Kresslein, Albert. Method of and a device for doubling yarn on double twist spindles. 3,029,587, 4–17–62, Cl. 57—58.95.

Kresslein, Albert, to Volkmann & Co. Balloon limiter for a balloon-forming twist spindle. 3,065,592, 11–27–62, Cl. 57—108.

Kresslein, Albert, and H.-G. Wiechmann, to Volkmann & Co. Internal brake for spinning and twist spindles. 3,060,672, 10–30–62, Cl. 57—88.

Kressley, Leonard J.: *See*—
Frevel, Ludo K., and Kressley. 3,032,389.
Frevel, Ludo K., and Kressley. 3,058,800.

Kressman, Theodore R. E., to The Permutit Co. Ltd. Manufacture of anion-exchange resins. 3,021,288, 2–13–62, Cl. 260—2.1.

Kressman, Theodore R. E., to The Permutit Co. Ltd. Ion-exchange resin. 3,030,318, 4–17–62, Cl. 260—2.2.

Kretsch, Kenneth P.: *See*—
James, Dennis B., and Kretsch. 3,023,278.

Kretschmer, Charles H., Jr., and H. J. Martin, to The Kretschmer Wheat Germ Corp. Method of processing wheat germ. 3,036,918, 5–29–62, Cl. 99—80.

Kretschmer Wheat Germ Corp., The: *See*—
Kretschmer, Charles H., Jr., and Martin. 3,036,919.

Kretz, Ornest J.: *See*—
Berndt, Lyle H., and Kretz. Re. 25,264.

Kretzler, Albert: *See*—
Teske, Wolfgang, and Kretzler. 3,063,920.

Kretz, Charles H., Jr. Vacuum-blast pickups for sheet material. 3,023,556, 5–8–62, Cl. 27—1.

Kretz, Charles H., Jr., to Kretz Collator Co. Paper collator. 3,041,065, 6–26–62, Cl. 270—58.

Kretz Collator Co.: *See*—
Kretz, Charles H., Jr. 3,041,065.

Kretz, Russell F., to R. F. Kretz. Vehicular pipe laying ram. 3,061,916, 11–6–62, Cl. 29—238.

Kretzing, John C., to Sperry Rand Corp. Detector assembly holder and coupling device in a coaxial line resonator. 3,029,393, 4–10–62, Cl. 329—162.

Kretzmer, Ernest R.: *See*—
Bomba, James S., Haller, and Kretzmer. 3,050,581.

Kretzmer, Ernest R., to Bell Telephone Laboratories, Inc. Cumulative code translator. 3,035,257, 5–15–62, Cl. 340—347.

Kretzmer, Ernest R., and M. A. Townsend, to Bell Telephone Laboratories, Inc. Ultrasonic delay lines. 3,034,077, 5–8–62, Cl. 333—30.

Kretzmer, Minor G., Jr.: *See*—
Smith, William R., Runk, and Kretzmer. 3,067,540.

Kreuter, Kenneth G., to Robertshaw-Fulton Controls Co. Control for fluid system. 3,044,402, 7–17–62, Cl. 103—25.

Kreutzer, Arthur, to General Motors Corp. Fuel distributing system. 3,019,603, 2–6–62, Cl. 60—39.28.

Kreutzer, Conradin O., to Fish Products Co. Electro-fishing low inductance impulse circuit. 3,043,041, 7–10–62, Cl. 43—17.1.

Kreutzer, Conradin O., to Smith Research and Development Co., Inc. Method of removing fish trapped in pocket. 3,061,966, 11–6–62, Cl. 43—4.5.

Kreutzer, Conradin O., to Smith Research and Development Co., Inc. Method of and means for electro-influencing living creatures. 3,069,797, 12–25–62, Cl. 43—4.5.

Kreutzer, William A., to Shell Oil Co. Soil fumigation. 3,028,304, 4–3–62, Cl. 167—39.

Kreuz, Donald F.: *See*—
Darbee, Leonard R., Kreuz, and Jenney. 3,062,622.

Kreuz, Donald F., and L. R. Darbee, to FMC Corp. Manufacture of hydrogen peroxide. 3,030,186, 4–17–62, Cl. 23—207.

Kreuz, Kenneth L.: *See*—
Kluge, Herman D., Kreuz, and Wiley. 3,069,355.

Krewer, William A.: *See*—
Ayers, George W., and Krewer. 3,038,017.
Ayers, George W., and Krewer. 3,046,318.
Ayers, George W., and Krewer. 3,061,540.

Krewson, Charles F., to United States of America, Agriculture. N-(2,3,6-trichlorobenzoyl)-L-leucine and herbicidol use therefor. 3,044,866, 7–17–62, Cl. 71—2.6.

Kreysa, Robert J., to W. R. Grace & Co. Process for the preparation of *p*-cyanostyrene. 3,064,034, 11–13–62, Cl. 260—465.

Krezanoski, Joseph Z., to Barnes-Hind Laboratories, Inc. Process and composition for examining eyes with fluorescent vitamin B$_2$. 3,044,937, 7–17–62, Cl. 167—81.

Krichton, Carl V., to McGraw-Edison Co. Room heater. 3,051,820, 8–28–62, Cl. 219—39.

Kriebel, Walter: *See*—
Ahrens, Erhard, Schultes, Mies, and Kriebel. 3,045,206.

Krieble, Robert H. Anaerobic curing sealant composition having extended shelf stability. 3,043,820, 7–10–62, Cl. 260—89.5.

Krieble, Vernon K. Anaerobic curing compositions containing acrylic acid diesters. 3,041,322, 6–26–62, Cl. 260—89.5.

Krieble, Vernon K. Accelerated anaerobic curing compositions. 3,046,262, 7–24–62, Cl. 260—89.5.

Krieger, Charles: *See*—
Leeson, Lewis J., Lowery, and Krieger. 3,054,810.

Krieger, Hans, E. Schweym, and J. Geller, to Rutgerswerke-Aktiengesellschaft. Process and device for solidifying pitches, bitumina and the like. 3,037,239, 6–5–62, Cl. 18—2.4.

Krieger, Helmut: *See*—
Ebbinghaus, Kurt, and Krieger. 3,041,483.

Krienen, Anthony S.: *See*—
Blain, Ralph W., and Kriener. 3,054,116.

Krier, Herbert E. Refrigerated storage chamber and beverage container lift. 3,056,530, 10–2–62, Cl. 221—22.

Krier, Keith N.: *See*—
Peabody, Ralph C., and Krier. 3,023,440.

Krieweth, Wolfgang, and K. Dohm, to La Soudure Electrique Automatique. Machine for automatic upward electric welding of vertical joints. 3,040,166, 6–19–62, Cl. 219—126.

Krikorian, Garo, to Rice Barton Corp. Spring tensioned cutting wire device. 3,055,251, 9–25–62, Cl. 83—587.

Krikorian, Nerses H., J. D. Farr, and W. G. Whitteman, to United States of America, Atomic Energy Commission. Method of joining carbides to base metals. 3,020,632, 2–13–62, Cl. 29—420.

Krikorian, Oscar H.: *See*—
Kane, James S., Carpenter, and Krikorian. 3,017,286.

Krimm, Heinrich: *See*—
Schnell, Hermann, Bottenbruch, and Krimm. 3,028,365.

Krimm, Heinrich, and H. Schnell, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of isonitrones. 3,064,007, 11–13–62, Cl. 260—333.

Krimm, Heinrich, and H. Schnell, to Farbenfabriken Bayer Aktiengesellschaft. Heat-stable polycondensation products. 3,067,169, 12–4–62, Cl. 260—46.5.

Krimmel, Carl P., to G. D. Searle & Co. Glycosides of the pyridone series. 3,016,372, 1–9–62, Cl. 260—210.

Krimmel, Carl P., to G. D. Searle & Co. N-xenylaikanoylaminoalkanole acids and esters thereof. 3,043,868, 7–10–62, Cl. 260—518.

Kring, Elbert V.: *See*—
Inskip, Harold K., and Kring. 3,033,843.
Jenkins, Gordon L., and Kring. 3,049,495.

Krinsky, Albert: *See*—
Wexler, Arnold, Krinsky, and Garfinkel. 3,022,667.

Kripak, Leonid: *See*—
Glass, Marvin I., and Kripak. 3,029,539.
Glass, Marvin I., and Kripak. 3,050,900.
Glass, Marvin I., and Kripak. 3,060,625.
Reed, Bayard C., and Kripak. 3,040,475.

Kripak, Leonid, to M. I. Glass. Toy. 3,058,259, 10–16–62, Cl. 46—14.

Kripke, Joseph B., M. R. Rowe, and R. C. Brendemuehl, to General Motors Corp. Program controller. 3,055,993, 9–25–62, Cl. 200—33.

Krishnaswamy, Prathivadhi B.: *See*—
Kobbeinz, Avrom M., Krishnaswamy, and Thomas. 3,039,306.

Kristek, George E., 50% to O. M. Kennedy. Furniture leg tip. 3,021,638, 2–20–62, Cl. 45—139.

Kristenson, Nils H. B., to Scandinavian Agencies Corp., Ltd. Electromotor-driven centrifugal pump. 3,044,406, 7–17–62, Cl. 103—87.

Kristian Staerk A/S: *See*—
Wieckman, Frederic, and Plato. 3,044,511.

Kristiansen, Frank T., and H. W. Pexton, to International Business Machines Corp. Method of making a magnetic transducer. 3,064,333, 11–20–62, Cl. 29—155.56.
Kristoff, Walter W., Jr., to Western Electric Co., Inc. Magnetostrictive type phonograph pickup and system embodying the same. 3,030,454, 4–17–62, Cl. 179—100.4.
Kristofik, Joseph R., to Westinghouse Electric Corp. Buffer wheels. 3,023,550, 3–6–62, Cl. 51—193.
Kristy, John A., and M. C. Waldron, to United Aircraft Corp. Split-bit encoder disc. 3,070,789, 12–25–62, Cl. 340—347.
Kritser, Shelby M. Navigation aid. 3,043,503, 7–10–62, Cl. 235—61.
Kritser, Shelby M. Navigation aid. 3,063,626, 11–13–62, Cl. 235—61.
Kritske, Victor J.: *See*—
May, Ellwood H., and Kritske. 3,052,057.
Krivda, Alfred. Air injection drill. 3,029,756, 4–17–62, Cl. 111—6.
Krivisky, Rubin: *See*—
Hilison, Frank, and Krivisky. 3,017,656.
Hillson, Frank, and Krivisky. 3,050,357.
Kriwkowitsch, George. Nose packing device. 3,049,125, 8–14–62, Cl. 128—325.
Krizka, Jerry A.: *See*—
Kendall, Harold M., and Krizka. 3,069,980.
Kriznic, Bojan, to E. Mettler. Analytical balance. 3,029,882, 4–17–62, Cl. 177—150.
Kriznic, Bojan, to E. Mettler. Asymmetrical balance beam. 3,029,883. 4–17–62, Cl. 177—246.
Krobath, Hans, to Abilities, Inc. Electronic protractor. 3,039,312, 6–19–62, Cl. 73—465.
Kroeker, Edwin H.: *See*—
Nuessle, Albert C., and Kroeker. 3,025,181.
Kroen, Bernard A., to The Emerson Electric Mfg. Co. Stator bore honing machine and method of honing. 3,029,562, 4–17–62, Cl. 51—34.
Kroenert, Fred P., ½ to L. Kroenert. Bottle cap construction. 3,057,501, 10–9–62, Cl. 215—39.
Kroenert, Lore: *See*—
Kroenert, Fred P. 3,057,501.
Kroeper, Hugo, H. Weitz, and R. Platz, to Badische Anilin- & Soda-Fabrik Aktiengeselischaft. Production of telomers from ethylenically unsaturated compounds. 3,019,215, 1–30–62, Cl. 260—94.9.
Kroger Co., The: *See*—
Shenkenberg, David R. 3,027,257.
Kroger, Ferdinand A.: *See*—
De Nobel, Dirk, and Kroger. 3,033,791.
Kroger, Rudolf W. Vehicle heat exchanger for use with a refrigerator, air conditioner or the like. 3,021,690, 2–20–62, Cl. 62—238.
Krogh, Ray A., to Litton Industries, Inc. Microwave load isolators. 3,049,680, 8–14–62, Cl. 333—24.
Krogstad, Robert W.: *See*—
Sylvester, Gordon C., Freese, and Krogstad. 3,065,685.
Krohm, Fred A., to The Anderson Co. Windshield wiper assembly. 3,041,653, 7–3–62, Cl. 15—250.42.
Krohm, Fred A., to The Anderson Co. Windshield wiper arm and blade assembly. 3,061,865, 11–6–62, Cl. 15—250.23.
Krohm, Fred A., to The Anderson Co. Windshield wiper arm structure. 3,061,866, 11–6–62, Cl. 15—250.35.
Krohm, Fred A., to The Anderson Co. Wiper arm assembly. 3,064,297, 11–20–62, Cl. 15—250.20.
Krohmann, Walter: *See*—
Pahnke, Hans-Joachim, and Krohmann. 3,024,772.
Krohn, Earl H., to Krohn-Hite Laboratories, Inc. Impedance bridge circuit. 3,039,050, 6–12–62, Cl. 324—57.
Krohn-Hite Laboratories, Inc.: *See*—
Krohn, Earl H. 3,039,050.
Santelmann, William F., Jr. 3,068,392.
Krohnke, Kenneth. Outdoor broiling unit. 3,027,887, 4–3–62, Cl. 126—25.
Krohne, Hans G.: *See*—
Elssmann, Oswald E., and Krohne. 3,042,454.
Krohs, Alfred, and F. Schlohlein, to VEB Carl Zeiss. Photoelectric device for ultra-violet radiation. 3,019,364, 1–30–62, Cl. 313—102.
Krok, Edward J.: *See*—
Tillson, Edwin D., and Krok. 3,043,951.
Krol, Stanley J.: *See*—
Maximoff, Paul A., Krol, and Sola. 3,063,139.
Maximoff, Paul A., Krol, and Sola. 3,067,902.
Krolicki, August. Vertically adjustable trailer. 3,062,558, 11–6–62, Cl. 280—43.23.
Kroll, Harry: *See*—
Horner, Herbert F., Kroll, and Benson. 3,049,853.
Knell, Martin, and Kroll. 3,028,407.
Spivack, John D., Peterson, and Kroll. 3,027,405.
Kroll, Harry, J. V. Simonian, and M. Knell, to Geigy Chemical Corp. Treating iron deficient plants with ferric chelates of ethylenediaminediacetic acids containing phenolic groups. 3,038,793, 6–12–62, Cl. 71—1.
Kroll, Wolf-Rainer: *See*—
Ziegler, Karl, Koster, and Kroll. 3,066,162.
Krömer, Karl: *See*—
Berger, Edith, Hahn, and Krömer. 3,030,871.
Krömer, Karl, and E. Berger, to Kamera- und Kinowerke Dresden, VEB. Photographic camera. 3,059,555, 10–23–62, Cl. 95—10.
Kromer, Orlando W., and D. S. Weist; said Weist assor. to said Kromer. Flexible means connecting branch pipes to sprayer booms. 3,031,211, 4–24–62, Cl. 285—115.
Kromer, Wallace R. Method of and apparatus for carbonating, cooling, storing, distributing and dispensing beverages. 3,058,620, 10–16–62, Cl. 222—1.
Kron, Carl M., to Phillips Petroleum Co. Production of dry carbon black pellets. 3,050,378, 8–21–62, Cl. 23—314.
Kron, Eugene, to Nord Photocopy and Electronics Corp. Photocopy machine. 3,042,795, 7–3–62, Cl. 240—2.
Kron, Harold O.: *See*—
Denkowski, Walter J., Caldwell, and Kron. 3,069,855.
Kron, Max, to Mexy, Etablissement. Centrifuge. 3,040,899, 6–26–62, Cl. 210—364.
Kronacher, Hermann: *See*—
Fischer, Thomas, Kaess, and Kronacher. 3,051,549.
Kaess, Franz, Fischer, and Kronacher. 3,021,192.
Krone Kommanditgesellschaft: *See*—
Hoppe, Hans, and Zaehler. 3,061,052.
Kronenberg, Stanley, to United States of America, Army. High intensity dosimeter. 3,052,797, 9–4–62, Cl. 250—83.3.
Kroner, George, to Seal Sac, Inc. Handbag holder. 3,063,570, 11–13–62, Cl. 211—113.
Kröner, Klaus, to North American Philips Co., Inc. Circuit arrangement for stabilizing the amplitude of a high direct voltage. 3,051,888, 8–28–62, Cl. 321—2.
Kronfeld, Jerome, to National Starch and Chemical Corp. Paper coating compositions containing cationic starch. 3,052,561, 9–4–62, Cl. 106—213.
Kronig, Walter, and B. Schleppinghoff, to Farbenfabriken Bayer Aktiengesellschaft. Method of heating solids in a pneumatic conveyor conduit. 3,066,927, 12–4–62, Cl. 263—52.
Kroninger, Nolan R.: *See*—
Bond, Norman J., and Kroninger. 3,019,072.
Kronlage, John W., and P. G. Bartlett, to Westinghouse Electric Corp. Blocking oscillation circuit. 3,069,633, 12–18–62, Cl. 331—112
Kronoff, Clarence R., to Crompton & Knowles Corp. Lay drive means for looms. 3,053,285, 9–11–62, Cl. 139—188.
Kronogard, Sven-Olof: *See*—
Karlsson, Sven-Olof, and Quistgaard. 3,024,668.
Kronsbein, Curt: *See*—
Bellmann, Friedhelm, and Kronsbein. 3,023,598.
Kronstad, Haavard. Air filter for dust collector. 3,045,409, 7–24–62, Cl. 55—389.
Kroon, Pieter J. Method of making tubing structures. 3,063,142, 11–13–62, Cl. 29—424.
Kroos, Friedrich-Karl, to Siemens & Halske Aktiengesellschaft. Binary counter and shift register circuit employing different RC time constant input circuits. 3,056,044, 9–25–62, Cl. 307—88.5.
Kropa, Edward L., and A. S. Nyquist, to American Cyanamid Co. Process for treating cellulosic textile material with triacrylyl-S-triazines. 3,016,281, 1–9–62, Cl. 8—116.2.
Kropp Forge Co.: *See*—
Lengyel, Charles N. 3,069,923.
Nelson, John H. 3,029,497.
Krost, Bruce B.: *See*—
Spafford, Ralph W. 3,039,029.
Krotz, Alvin S., to Dexter Axle Co., Inc. Vehicle brake device. 3,060,810, 10–30–62, Cl. 188—112.
Krouse, LeRoy M., and W. A. Zech, to Joy Mfg. Co. Auxiliary motor housing. 3,064,148, 11–13–62, Cl. 310—57.
Kroy Unshrinkable Wools, Ltd.: *See*—
Russon, Wallace S. 3,062,610.
Krsna, Steve, to NJB Corp. Transistorized voltage regulated power supply. 3,049,658, 8–14–62, Cl. 323—22.
Krtous, George F., to Bell & Howell Co. Sound motion picture projector. 3,047,671, 7–31–62, Cl. 179—100.1.
Kruck, Peter: *See*—
Ossenbrunner, Armin, Klockgether, and Kruck. 3,025,-163.
Schulze, Robert E., Jauch, and Kruckeberg. 3,053,268.
Kruckeberg, Christian W.: *See*—
Carnagua, Harold E., and Kruckeberg. 3,045,868.
Schulze, Robert J., and Kruckeberg. 3,036,525.
Kruckeberg, Christian W., to Tokheim Corp. Hand operated diaphgragm pump. 3,034,450, 5–15–62, Cl. 103—150.
Kruckeberg, Christian W., to Tokheim Corp. Automatic nozzle. 3,042,083, 7–3–62. Cl. 141—208.
Kruckewitt, Edward K. Spark arrester. 3,017,954, 1–23–62, Cl. 183—74.
Krucoff, Darwin, to United States of America, Atomic Energy Commission. Nuclear reactor with powdered fuel. 3,039,-948, 6–19–62, Cl. 204—193.2.
Krueckel, Barbara F. Multi-colored organopolysiloxanes. 3,033,807, 5–8–62, Cl. 260—18.
Krueger, Alfred P., to Minnesota Mining and Mfg. Co. Label dispenser. 3,044,535, 7–17–62, Cl. 156—584.
Krueger, Alfred P., to Minnesota Mining and Mfg. Co. Hand label dispenser. 3,051,353, 8–28–62, Cl. 221—73.
Krueger, Alfred P., to Minnesota Mining and Mfg. Co. Label dispenser. 3,066,881, 12–4–62, Cl. 242—55.53.
Krueger, Allison F. Seats coupled side-by-side. 3,018,131, 1–23–62, Cl. 297—248.
Krueger, Bruno O.: *See*—
Halpern, Benjamin D., and Krueger. 3,052,652.
Krueger, Donald, to HRB-Singer, Inc. Modulator device. 3,018,566, 1–30–62, Cl. 35—10.4.
Krueger, Edward C., to Hammond Machinery Builders, Inc. Bearing structure and support for reciprocable member. 3,024,073, 3–6–62, Cl. 308—6.

Krueger, Friedrich : *See*—
Rudy, Hermann, and Krueger. 3,037,015.
Krueger, John W. : *See*—
Klimkowski, Robert J., and Krueger. 3,046,128.
Krueger, Kenneth H., to Tension Envelope Corp. of Kansas City Bank. 3,039,674, 6–19–62, Cl. 229—68.
Krueger, Melvin R. : *See*—
Perkins, Origen S., and Krueger. 3,020,858.
Krueger, Nicholas, to East Rutherford Syringes, Inc. Hypodermic syringe. 3,048,172, 8–7–62, Cl. 128—218.
Krueger, Robert H., N. W. Berst, and L. L. Alt, to The Diversey Corp. Method for inhibiting corrosion of ferrous metals. 3,039,970, 6–19–62, Cl. 252—155.
Krueger, Rudolph E. High pressure closures. 3,042,248, 7–3–62, Cl. 220—46.
Krueger, Theodore H., to Better Packages, Inc. Strip serving and applying device. 3,015,925, 1–9–62, Cl. 53—198.
Krueger, Theodore H. Seal means for a push button. 3,043,-148, 7–10–62, Cl. 74—17.8.
Krueger, Theodore H., and A. S. Gruttadauria, to Better Packages, Inc. Selective timing device useful for tape dispensing machines and other purposes. 3,029,355, 4–10–62, Cl. 307—141.
Krueger, Theodore H., and N. Campanaro, to Better Packages, Inc. Tape dispenser with tape softening instrumentalities. 3,037,477, 6–5–62, Cl. 118—40.
Krueger, Thomas L., and E. W. Koplin, to The G & K Machine Co. Flow control plunger. 3,029,985, 4–17–62, Cl. 222—327.
Krueger, Vernon, to Minneapolis-Honeywell Regulator Co. Magnetic core structures. 3,029,403, 4–10–62, Cl. 336—219.
Krug, Albert E., to Becton Dickinson and Co. Sterile hypodermic needle assembly and package. 3,036,700, 5–29–62, Cl. 206—43.
Krug, Edwin H. : *See*—
Abichandani, Krishin P., Krug, Hainsworth, and Story. 3,062,487.
Krug, Herbert W. : *See*—
Patterson, William E., and Krug. 3,059,355.
Krug, Johannes : *See*—
Finkener, Friedrich, Krug, Loges, and Rodewald. 3,022,-161.
Krug, John E. : *See*—
Hubacker, Earl F., and Krug. 3,020,733.
Krug, Robert H. : *See*—
Tierney, Raymond B., and Krug. 3,048,542.
Krug, William H., to Gibbs Mfg. & Research Corp. Instrument keying circuit. 3,049,957, 8–21–62, Cl. 84—1.09.
Kruger, Johannes. Internal combustion engine. 3,032,023. 5–1–62, Cl. 123—122.
Kruger, John H. : *See*—
Woodard, Harry W., Smith, and Kruger. 3,028,040.
Kruger, Leo H. : *See*—
Wurzburg, Otto B., and Kruger. 3,058,853.
Kruger, Michael H., to Smithcraft Corp. Illuminated ceiling. 3,052,794, 9–4–62, Cl. 240—9.
Kruggel, Roy W. : *See*—
Phillips, Benjamin A., Roeder, and Kruggel. 3,063,257.
Kruglick, John S. Otoscope illumination assembly. 3 050,-049, 8–21–62, Cl. 128—23.
Krugman, Leonard M., to Radio Corp. of America. Battery operated apparatus including a battery operated clock and radio. 3,059,185, 10–16–62, Cl. 325—396.
Kruk-Strzelecki, Jerzy B., to C.A.V. Ltd. Fuel pumps for compression ignition engines. 3,027,844, 4–3–62, Cl. 103—41.
Krulish, John A. C., to Socony Mobil Oil Co., Inc. Multihole spray nozzle tester. 3,033,026, 5–8–62, Cl. 73—49.7.
Krumholz, Pawel. Process for separating ions by ion exchange. 3,037,841, 6–5–62, Cl. 23—23.
Krumholz, Pawel. Process for precipitating readily filterable rare earth hydroxides. 3,049,403, 8–14–62, Cl. 23—22.
Krumholz, Pawel, and K. J. Bril. Process for separating rare earths and yttrium by ion exchange. 3,054,655, 9–18–62, Cl. 23—23.
Krumm, Dero J., and R. A. Stewart, to Wilson & Co., Inc. Method of processing animal fats. 3,025,315, 3–13–62, Cl. 260—412.6.
Krupick, Walter J., to General Precision, Inc. Gyroscope fitted with vacuum container. 3,031,892, 5–1–62, Cl. 74—5.5.
Krupin, Philip. Shirt retainer. 3,039,115, 6–19–62, Cl. 2—229.
Krupp, Robert F., and J. K. Wagner, to Gerber Products Co. Container case feeding and opening means. 3,019,924, 2–6–62, Cl. 214—304.
Krupp, Robert F., and J. K. Wagner, to Gerber Products Co. Machine for arranging glass jars. 3,028,946, 4–10–62, Cl. 198—32.
Krupp, Robert F., and J. K. Wagner, to Gerber Products Co. Guide rail construction for discharging tipped jars. 3,040,-875, 6–26–62, Cl. 198—232.
Krusbe, Edward F. Fishing apparatus. 3,058,249, 10–16–62, Cl. 43—16.
Kruse, Eugene H., to Kruse-Rieke. Electrical fixture mounting apparatus. 3,054,846, 9–18–62, Cl. 174—63.
Kruse, Jurgen M., to E. I. du Pont de Nemours and Co. Treatment of ore. 3,057,716, 10–9–62, Cl. 75—63.
Kruse, Marvin F. Weight gauge for hydraulic loader. 3,061,-117, 10–30–62, Cl. 214—2.
Kruse, Melvin S. Retractable plumb bob. 3,064,356, 11–20–62, Cl. 33—217.
Kruse, Norman F., to Central Soya Co., Inc. Method of enhancing the xanthophyll content of poultry feeds. 3,020,159, 2–6–62, Cl. 99—4.
Kruse, Norman F., and N. H. Witte, to Central Soya Co., Inc. Apparatus for treating flowable materials. 3,018,564, 1–23–62, Cl. 34—173.
Kruse-Rieke : *See*—
Kruse, Eugene H. 3,054,846.
Kruse, William P., to Gates Radio Co. Television signal analyzer. 3,061,668, 10–30–62, Cl. 178—6.
Krusemark, Frederick A. Two-stage hydraulic master cylinder. 3,062,010, 11–6–62, Cl. 60—54.6.
Kruskal, Martin, J. L. Tuck, S. A. Colgate, and M. N. Rosenbluth, to United States of America, Atomic Energy Commission. Controlled nuclear fusion reactor. 3,016,342, 1–9–62, Cl. 204—193.2.
Krute, Everett A. Pump systems. 3,022,738, 2–27–62, Cl. 103—49.
Kruyff, Piet C. Color-stable gasoline. 3,049,414, 8–14–62, Cl. 44—63.
Kruzic, Zelko J., to Westinghouse Electric Corp. Relay magnet suspension. 3,060,355, 10–23–62, Cl. 317—195.
Kryder, Harold C., to Minneapolis-Honeywell Regulator Co. Snap switch. 3,030,466, 4–17–62, Cl. 200—67.
Krylov, Constantin A. Propelling device for skiers and the like. 3,047,302, 7–31–62, Cl. 280—11.37.
Krysiak, Zygmut S. Multiple coin separator. 3,059,748, 10–23–62, Cl. 194—99.
Krystal, Joseph. Cap. 3,035,273, 5–22–62, Cl. 2—172.
Kryzer, Benjamin H. : *See*—
Tischler, Edward J., and Kryzer. 3,029,832.
Kryzer, Benjamin H., to Union Tank Car Co. Water softener controls. 3,017,995, 1–23–62, Cl. 210—138.
Kryzer, Benjamin H., to Union Tank Car Co. Valve plunger sealing device. 3,042,431, 7–3–62, Cl. 286—26.
Kuba, Richard E., to International Business Machines Corp. Current supply apparatus. 3,041,523, 6–26–62, Cl. 321—16.
Kuba, Samuel : *See*—
Frank, Gerard A., and Kuba. 3,057,051.
Kubanoff, Jacob H. : *See*—
Hand, George C., Jr., and Kubanoff. 3,040,306.
Kubat, Donald A., to Mathews Conveyer Co. Article handling apparatus. 3,058,564, 10–16–62, Cl. 193—35.
Kubatschka, Oswald : *See*—
Schulze, Klaus-Jürgen, and Kubatschka. 3,021,720.
Kubeck, Joseph B. : *See*—
Morgan, John M., and Kubeck. 3,045,093.
Kuber, Abraham, to Bac-A-Brand Products, Inc. Friction belt buckle. 3,064,271, 11–20–62, Cl. 2—311.
Kubiak, Emil A., to Borg-Warner Corp. Pressure loadable fluid seal device. 3,024,027, 3–6–62, Cl. 277—27.
Kubiak, Emil A., and J. M. Herberth, to Borg-Warner Corp. Variable displacement pump. 3,026,810, 3–27–62, Cl. 103—120.
Kubiak, Margaret Q. : *See*—
Atchison, Daniel R. 3,031,022.
Kubicek, William G., to Regents of The University of Minnesota. Alternating pressure seat. 3,050,050, 8–21–62, Cl. 128—33.
Kubicek, William G., to J. J. Monaghan Co., Inc. Respirator collar. 3,059,635, 10–23–62, Cl. 128—30.
Kubick, Matthew J., to Brooklyn Fibre Broom Co., Inc. Broom handle adaptor. 3,052,907, 9–11–62, Cl. 15—146.
Kubie, William L., to Aluminum Research Corp. Cold forming lubricant and method of applying same. 3,042,558, 7–3–62, Cl. 148—6.14.
Kubik, John T. and S. Safety guard for wall sockets. 3,068,-442, 12–11–62, Cl. 339—36.
Kubik, Paul P. : *See*—
Check, Mathias M., and Kubik. 3,038,749.
Kubik, Paul P., to The Yale and Towne Mfg. Co. Knob retainer for lock. 3,017,762, 1–23–62, Cl. 70—224.
Kubik, Stanley : *See*—
Kubik, John T. and S. 3,068,442.
Kubiliunas, Ignas B., to Polytop Corp. Leak-proof container closure with adjustable spout. 3,059,821, 10–23–62, Cl. 222—520.
Kubin-Nicholson Corp. : *See*—
Nicholson, Jerome J. 3,026,794.
Kubisiak, James K. : *See*—
Schumacher, Bernard P., Feller, Kubisiak, and Thomas. 3,033,738.
Kubler, Donald G. : *See*—
Montagna, Amelio E., Brezinski, and Kubler. 3,032,558.
Kubler, Ernest F. : *See*—
Wolke, Richard W., and Kubler. 3,026,463.
Kubota, Haruo : *See*—
Iwata, Minoru, Takatsuki, and Kubota. 3,036,549.
Kubota, Masao, to Agency of Industrial Science and Technology, Ministry of International Trade and Industry. Cutting tool. 3,052,951, 9–11–62, Cl. 29—95.
Kubota, Tokuo, to Shionogi & Co., Ltd. Nor-steroid derivatives and process of preparing same. 3,060,230, 10–23–62, Cl. 260—488.
Kubouchi, Osamu : *See*—
Takahashi, Masao, Imaoka, and Kubouchi. 3,046,641.
Kucera, Clement M. : *See*—
Peter, Robert G., and Kucera. 3,018,836.

Kucera, Clement M., to Reed Roller Bit Co. Drill bit for producing an irregular indentation pattern on the bottom of a well bore. 3,018,835, 1–30–62, Cl. 175—378.

Kuceski, Vincent P., to The C. P. Hall Co. Removal of nitrogen compounds. 3,021,348, 2–13–62, Cl. 260—413.

Kuceski, Vincent P., and C. K. McMillen, to The C. P. Hall Co. of Illinois. Animal litter. 3,059,615, 10–23–62, Cl. 119—1.

Kuch, Frederick C., to Bell Telephone Laboratories, Inc. Electrical connector for preformed panel circuit arrangements. 3,020,510, 2–6–62, Cl. 339—17.

Kuchar, Anton: *See*—
Palmer, Gerhard, and Kuchar. 3,066,340.

Kuchenbecker, Morris W., to American Can Co. Container. 3,022,930, 2–27–62, Cl. 229—17.

Kuchenbecker, Morris W., to American Can Co. Collapsed containers and method of producing same. 3,024,959, 3–13–62, Cl. 229—17.

Kuchenbecker, Morris W., to American Can Co. Container. 3,024,960, 3–13–62, Cl. 229—37.

Kuchenbecker, Morris W., to American Can Co. Container. 3,039,668, 6–19–62, Cl. 229—17.

Kuchenbecker, Morris W., to American Can Co. Multi-compartment tray. 3,039,672, 6–19–62, Cl. 229—28.

Kuchenbecker, Morris W., to American Can Co. Dispensing guide. 3,040,950, 6–26–62, Cl. 229—17.

Kuchenbecker, Morris W., to American Can Co. Container. 3,040,951, 6–26–62, Cl. 229—17.

Kuchenbecker, Morris W., to American Can Co. Multi-compartment tray. 3,047,201, 7–31–62, Cl. 229—28.

Kuchenbecker, Morris W., to American Can Co. Container. 3,063,593, 11–13–62, Cl. 220—23.

Kuchenbecker, Morris W., and N. J. Asman, to American Can Co. Tamperproof carton. 3,037,681, 6–5–62, Cl. 229—39.

Kuchera, Joseph A., and L. J. Stiehm. Antenna rotor bracket. 3,044,738, 7–17–62, Cl. 248—43.

Kuchta, Ferenc, and B. G. McAteer, to J Wiss & Sons Co. Grass cutting shears. 3,064,351, 11–20–62, Cl. 30—248.

Kuck, James C.: *See*—
Pons, Walter A., Jr., Kuck, and Frampton. 3,036,102.

Kuckens, Alexander, to Willy H. Schlieker, K.G. Method and apparatus for producing tubes with a helical welding seam. 3,030,488, 4–17–62, Cl. 219—62.

Kuckhoff, Carl J.: *See*—
Biedinger, Henry J., and Kuckhoff. 3,065,838.

Kuckro, Gerard W., to General Electric Co. Vulcanization treatments. 3,061,594, 10–30–62, Cl. 260—79.5.

Kuczynski, Eugene R.: *See*—
Eckfeldt, Edgar L., and Kuczynski. 3,025,458.
Eckfeldt, Edgar L., and Kuczynski. 3,025,459.
Eckfeldt, Edgar L., and Kuczynski. 3,054,047.

Kudera, Joseph A., Jr., and R. E. Hughes; said Kudera assor. to said Hughes. Rotatable base for traffic control gate standards. 3,024,550, 3–13–62, Cl. 39—82.

Kudlaty, Walter J., to Flick-Reedy Corp. Remote control for a piston and cylinder device. 3,048,151, 8–7–62, Cl. 121—38.

Kudo, Francis M.: *See*—
Reis, Herbert J., and Kudo. 3,019,439.

Kudobe, Milo. Stock water heater. 3,062,201, 11–6–62, Cl. 126—360.

Kuebler, James F. Stage curtain hanger. 3,033,127, 5–8–62, Cl. 104—303.

Kuebrich, Herbert P., and M. L. Stone, to General Electric Co. Vaporizer and method for making the same. 3,068,-337, 12–11–62, Cl. 219—19.

Kuecken, John A., to Avco Corp. Radio frequency image detector. 3,050,725, 8–21–62, Cl. 343—17.

Kuehler, Jack D., to International Business Machines Corp. Information recording and display apparatus. 3,023,343, 2–27–62, Cl. 315—18.

Kuehne, Christoph: *See*—
Biermann, Markus, and Kuehne. 3,046,404.

Kuehne, Christoph, to Askania-Werke A.G. Optical apparatus for determining the position of an object. 3,055,263, 9–25–62, Cl. 88—14.

Kuehne, Martin E., to Ciba Corp. Cyclopentanophenathreno-1,3-oxazines. 3,033,860, 5–8–62, Cl. 260—239.55.

Kuehne, Martin E., to Ciba Corp. Cyclopentanophenanthrenyl-oxazines. 3,063,990, 11–13–62, Cl. 260—239.55.

Kuehner, Ernst: *See*—
Maier, Hartmut W., Schuchardt, and Kuehner. 3,025,980.

Kuehner, Richard L.: *See*—
Gamson, Bernard W., and Kuehner. 3,049,399.

Kuehnle, Manfred R.: *See*—
Keller, Aaron L., and Kuehnle. 3,034,643.

Kuehnle, Manfred R., to Iter Corp. Data processing. 3,045,-529, 7–24–62, Cl. 88—1.

Kuehnle, Manfred R., H. M. Zeutschel, and V. F. Wilson, to Itek Corp. Data processing. 3,042,201, 7–3–62, Cl. 209—111.5.

Kuellmar, Adolph G.: *See*—
Loomis, Russell M., Kuellmar, and Lundvall. 3,017,843.
Loomis, Russell M., Kuellmar, and Lundvall. 3,018,741.

Kuempel, Stanley G. Support for downspouts, discharge conduits and the like. 3,021,102, 2–13–62, Cl. 248—49.

Kueneman, Ray W.: *See*—
Conrad, James E., and Kueneman. 3,057,732.

Kuesnert, Karlhugo: *See*—
Distler, Harry, and Kuespert. 3,048,625.

Kuester, Donald W.: *See*—
Thurston, Edward G., and Kuester. 3,048,815.

Kuester, Frank E.: *See*—
Findley, Thomas W., Ohlson, and Kuester. 3,035,069.
Saewert, Harold E., and Kuester. 3,041,195.

Kuester, Frank E., and J. L. Ohlson, to Swift & Co. Selective alcoholysis of epoxy fatty acid esters. 3,070,608, 12–25–62, Cl. 260—348.

Kueter, Kenneth E., to Abbott Laboratories. Anti-diarrhea composition. 3,060,086, 10–23–62, Cl. 167—53.

Kufel, Stanley, Jr., to Bostitch, Inc. Power-driven stapling machine. 3,064,626, 11–20–62, Cl. 121—11.

Kufel, Stanley, Jr., and R. S. Bez, to Bostitch, Inc. Staple feed. 3,029,436, 4–17–62, Cl. 1—48.

Kuflik, Emanuel, to Corro-Lith Corp. Display means. 3,065,848, 11–27–62, Cl. 206—45.27.

Kufrin, Frederick W.: *See*—
Falligant, Louis A., and Kufrin. 3,066,516.

Kufrin, Robert J.: *See*—
Bobbe, Clarence, and Kufrin. 3,035,931.

Kugel, Fritz, and E. Muller, to J. M. Voith, G.m.b.H. Electro-hydraulic drive, especially for rail vehicles. 3,065,652, 11–27–62, Cl. 74—688.

Kugel, Fritz K., and W. H. Schweizer, to J. M. Voith Maschinenfabrik G.m.b.H. Gas turbine drive. 3,043,162, 7–10–62, Cl. 74—732.

Kugler, Albert H., to California Packing Corp. Weighing apparatus. 3,050,187, 8–21–62, Cl. 209—121.

Kugler, Emanuel. Wire stitching machine. 3,058,118, 10–16–62, Cl. 1—120.

Kugler, Emanuel. Making draw string bags from heat sealable material. 3,058,402, 10–16–62, Cl. 93—8.

Kugler, Emanuel. Method and apparatus for the manufacture of draw string bags. 3,058,403, 10–16–62, Cl. 93—8.

Kugler, Heinz W.: *See*—
Crosby, William H., Jr., and Kugler. 3,066,672.

Kugler, Keith K. Valve assembly. 3,043,333, 7–10–62, Cl. 137—506.

Kuhl, Ludwig J., to The Singer Mfg. Co. Bobbin case carrier for sewing machines. 3,046,922, 7–31–62, Cl. 112—231.

Kuhar, William A., and E. T. Carlson, to Uni-Bus, Inc. Plug-in contact device. 3,052,768, 9–4–62, Cl. 200—50.

Kuhar, William A., and F. H. Seiple, to Uni-Bus, Inc. Fusible plug-in device. 3,052,769, 9–4–62, Cl. 200—51.

Kuhary, Emery E.: *See*—
Operhall, Theodore, and Kuhary. 3,063,113.

Kuhl, Henry Y. and P. R. Egg cleaner. 3,049,135, 8–14–62, Cl. 134—72.

Kuhl, Paul R.: *See*—
Kuhl, Henry Y. and P. R. 3,049,135.

Kühle, Engelbert: *See*—
Malz, Hugo, Kühle, and Bayer. 3,053,876.

Kuhle, Engelbert, W. Schafer, L. Eue, and R. Wegler, to Farbenfabriken Bayer Aktiengesellschaft. Method of killing weeds and influencing plant growth. 3,063,823, 11–13–62, Cl. 71—2.6.

Kuhlenkamp, Alfred, to Mathema Corp. Reg. Trust. Ordnance sight for mobile targets. 3,024,536, 3–13–62, Cl. 33—49.

Kuhlenkamp, Alfred, to Mathema Corp. Reg. Trust. Control apparatus for anti-aircraft guns or the like. 3,039,194, 6–19–62, Cl. 33—49.

Kuhlenschmidt, Floyd E.: *See*—
Kuhlenschmidt, Harold L. and F. E., and Arthur and Arnold Geiselman. 3,051,323.

Kuhlenschmidt, Harold L. and F. E., and Arthur and Arnold Geiselman, to Etherfelt Mfg. Co., Inc. Boom mechanism and control. 3,051,323, 8–28–62, Cl. 212—35.

Kuhlkamp, Alfred: *See*—
Ehmann, Werner, and Kühlkamp. 3,028,374.
Kahrs, Karl-Heinz, and Kühlkamp. 3,061,561.
Starck, Werner, Kahrs, Kuhlkamp, and Ehmann. 3,050,-508.

Kühlkamp, Alfred, and G. Koch, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Polyvinyl ester dispersions and process for preparing same. 3,061,-560, 10–30–62, Cl. 260—17.

Kuhlman, August M., to Union Carbide Corp. Process for low-phosphorus ferromanganese alloys. 3,024,105, 3–6–62, Cl. 75—133.5.

Kuhlman Electric Co.: *See*—
Dulude, Donald O. 3,054,850.

Kuhn, William J.: *See*—
Du Fault, Homer D., and Kuhn. 3,027,888.

Kuhn, Albert J., to General Motors Corp. Refrigerating apparatus with defrosting means. 3,029,611, 4–17–62, Cl. 62—156.

Kuhn, Beryl M.: *See*—
Levine, Max, and Kuhn. 3,017,238.

Kuhn, Clarence W.: *See*—
Ferk, Lawrence A., and Kuhn. 3,057,980.

Kuhn, Eugen, to Olympia Werke A.G., Firma. Paper roll carrier for business machines. 3,034,738, 5–15–62, Cl. 242—55.2.

Kuhn, Eugen, to Olympia Werke A.G. Short-cut multiplier entry mechanism. 3,037,691, 6–5–62, Cl. 235—60.

Kuhn, Eugene M., to Koppers Co., Inc. Unsaturated organic compounds. 3,040,013, 6–19–62, Cl. 260—93.5.

Kuhn, Joseph M., to The Sherwin-Williams Co. Extender composition for textile printing pastes containing reaction product of monoethanolamine solution and the co-polymer of unhydrolyzed methyl vinyl ether and maleic anhydride. 3,017,377, 1–16–62, Cl. 260—29.6.

Kuhn, Karl R., and C. R. Giese, to Holley Carburetor Co. Nozzle bar. 3,057,607, 10–9–62, Cl. 261—78.

Kuhn, Otto A. Target device for amusement parks. 3,064,976, 11–20–62, Cl. 273—102.1.

Kuhn, Stephen J.: *See*—
Olah, George A., and Kuhn. 3,024,291.
Olah, George A., and Kuhn. 3,061,405.
Olah, George A., Kuhn, and Quinn. 3,052,733.

Kuhn, William L.: *See*—
Carr, Albert A., Jr., Tilford, and Kuhn. 3,056,784.
Palopoli, Frank P., and Kuhn. 3,038,905.

Kuhner, Max H., to Riley Stoker Corp. Steam separator. 3,057,323, 10–9–62, Cl. 122—491.

Kuhnke, Hellmuth. Electromagnet device. 3,054,028, 9–11–62, Cl. 317—198.

Kuhni, Leopold K., to Eversharp, Inc. Safety razor blade dispenser. 3,037,664, 6–5–62, Cl. 221—232.

Kuhni, Leopold K., to Eversharp, Inc. Double-edge safety razor blade dispenser. 3,059,761, 10–23–62, Cl. 206—16.

Kuhrt, Friedrich, to Siemens-Schuckertwerke Aktiengesellschaft. Transducer system for magnetic signals. 3,041,-416, 6–26–62, Cl. 179—100.2.

Kuhrt, Friedrich, and K. Maaz, to Siemens-Schuckertwerke Aktiengesellschaft. Magnetic-field responsive resistance device. 3,042,887, 7–3–62, Cl. 338—32.

Kuhrt, Noel H., and R. A. Broxholm, to Eastman Kodak Co. Method for preparing bakery products using mixed partial ester compositions. 3,034,897, 5–15–62, Cl. 99—91.

Kuhrt, Noel H., and R. A. Broxholm, to Eastman Kodak Co. Mixed partial ester compositions. 3,034,898, 5–15–62, Cl. 99—91.

Kuhrt, Noel H., and L. J. Swicklik, to Eastman Kodak Co. Method of preparing bread. 3,068,103, 12–11–62, Cl. 99—90.

Kuhtic, Edward T.: *See*—
Waalkes, Robert J., and Kuhtic. 3,065,002.

Kuijvenhoven, Arend W., and R. G. Vickers, to Brevets Aero-Mecaniques, S.A. Automatic gun breech block control mechanism. 3,051,056, 8–28–62, Cl. 89—132.

Kuiken, Jan, to Shell Oil Co. Seals for rotary shafts of ships. 3,050,310, 8–21–62, Cl. 277—30.

Kuilman, Cornelis, to H. Hart. Onion peeling machine. 3,057,385, 10–9–62, Cl. 146—43.

Kuiper, Adrianus: *See*—
Blaak, Hans H., van Zanten, Kuiper, and Almer. 3,020,224.

Kuiper, Barteld E., to E. I. du Pont de Nemours, and Co. Process for the production of dicarboxylic acids. 3,035,092, 5–15–62, Cl. 260—533.

Kuiper, Dan B., to General Motors Corp. Valve operating linkage lubrication and hydraulic valve lifter feed system for engines. 3,019,857, 2–6–62, Cl. 184—6.

Kuipers, Pieter G., to North American Philips Co., Inc. Measuring apparatus. 3,056,919, 10–2–62, Cl. 324—30.

Kujas, Eric F., to The Electric Storage Battery Co. Electric battery and battery electrolyte. 3,051,768, 8–28–62, Cl. 136—24.

Kuklinski, Walter W.: *See*—
Dew, Robert L., Kuklinski, and Zabouski. 3,025,053.

Kuksa, John R., to Automatic Electric Laboratories, Inc. Digit absorbing selector. 3,024,317, 3–6–62, Cl. 179—18.

Kukuk, Wilhelm, to Optische Werke C. A. Steinheil Sohne G.m.b.H. Diaphragms of photographic objectives. 3,031,-581, 4–24–62, Cl. 250—237.

Kukuoka, Shigetada, to Nippon Kogaku K K. Electric automatic film and shutter winding mechanism for photographic cameras. 3,064,522, 11–20–62, Cl. 88—18.2.

Kulak, John: *See*—
Northcote, John A., and Kulak. 3,043,082.

Kular, Zenon A., to Northern Electric Co., Ltd. Device for sorting by impedance characteristics. 3,029,941, 4–17–62, Cl. 209—81.

Kulberg, August E.: *See*—
Dick, Herbert K., Kulberg, and Swasey. 3,036,719.

Kulberg, John F., and P. M. Bryant, to United States of America, Navy. Clamp assembly. 3,038,224, 6–12–62, Cl. 24—81.

Kulcke, Werner: *See*—
Fischle, Liselotte, Kulcke, Schweitzer, and Trapp. 3,067,413.

Kulesza, Frank W., to International Business Machines Corp. Printing with magnetic ink. 3,052,564, 9–4–62, Cl. 117—17.5.

Kulick, George. Device for regulation and control of esophagogastric balloons. 3,055,371, 9–25–62, Cl. 128—325.

Kulicke, Frederick W., Jr., to Kulicke & Soffa Mfg. Co. Continuous fine wire feeding device. 3,018,975, 1–30–62, Cl. 242—54.

Kulicke, Frederick W., Jr., to Kulicke & Soffa Mfg. Co. Micropicitioner. 3,046,006, 7–24–62, Cl. 269—80.

Kulicke, Frederick W., Jr., to Western Electric Co., Inc. Material forming apparatus. 3,064,708, 11–20–62, Cl. 153—25.

Kulicke & Soffa Mfg Co.: *See*—
Kulicke, Frederick W., Jr. 3,018,975.
Kulicke, Frederick W., Jr. 3,046,006.

Kulifay, Stanley M., to Monsanto Chemical Co. Method for the preparation of selenides and tellurides. 3,023,079, 2–27–62, Cl. 23—50.

Kulifay, Stanley M., to Monsanto Chemical Co. Method for the preparation of selenides and tellurides. 3,023,080, 2–27–62, Cl. 23—50.

Kulifay, Stanley M., to Monsanto Chemical Co. Method for the preparation of selenides and tellurides. 3,023,081, 2–27–62, Cl. 23—50.

Kulifay, Stanley M., to Monsanto Chemical Co. Method for the preparation of tellurides and selenides. 3,026,175, 3–20–62, Cl. 23—50.

Kulifay, Stanley M., to Monsanto Chemical Co. Method for the preparation of inorganic selenides and tellurides. 3,058,802, 10–16–62, Cl. 23—50.

Kulik, Metro D., to Consolidation Coal Co. Recovery of phthalic anhydride from still residues. 3,040,060, 6–19–62, Cl. 260—346.7.

Kulisek, Robert P., to Homestead Valve Mfg. Co. Replaceable seat washer in spherical plug valve. 3,056,576, 10–2–62, Cl. 251—315.

Kulisek, Robert P., to Homested Valve Mfg. Co. Bush ring seal for spherical plug valve. 3,056,577, 10–2–62, Cl. 251—315.

Kuljian Corp., The: *See*—
Kuljian, Harry A., and Fadden. 3,046,956.

Kuljian, Harry A. Reverberatory furnace. 3,036,911, 5–29–62, Cl. 75—92.

Kuljian, Harry A., and W. J. Fadden, Jr., to The Kuljian Corp. Pumpless liquid heater and translator. 3,046,956, 7–31–62, Cl. 122—451.

Kulka Electric Corp.: *See*—
Kulka, Eugene R. 3,056,103.
Kulka, Eugene R. 3,067,403.

Kulka, Eugene R., to Kulka Electric Corp. Terminal block. 3,056,103, 9–25–62, Cl. 339—198.

Kulka, Eugene R., to Kulka Electric Corp. Terminal block marking strip and clip. 3,067,403, 12–4–62, Cl. 339—113.

Kulka, Kurt, to Fritzsche Brothers, Inc. 2,2-dimethyl-1-phenyl-1,3-propandiol dicarbamate. 3,040,089, 6–19–62, Cl. 260—482.

Kull, Leo: *See*—
Freeman, John D., and Kull. 3,023,327.
Freeman, John D., Kull, and Rast. 3,069,901.
Stenhammar, Harold T., and Kull. 3,027,506.

Kull, Walter: *See*—
Himmelheber, Max, Steiner, and Kull. 3,067,456.

Kullgren, Gilbert V., to Blaw-Knox Co. Extruder for drying synthetic rubber. 3,067,462, 12–11–62, Cl. 18—12.

Kullmann, Donald J., to Badger Meter Mfg. Co. Control mechanisms. 3,020,774, 2–13–62, Cl. 74—142.

Kulow, Roman W.: *See*—
Clark, Charles C., and Kulow. 3,030,219.

Kulp, Earl F., to Parks-Cramer Co. Method for cleaning floors in textile mills. 3,053,700, 9–11–62, Cl. 134—10.

Kulp, Harry W. Accessory for use by fishermen. 3,016,741, 1–16–62, Cl. 73—143.

Kulp, Harry W., to K-D Mfg. Co. Snap ring pliers. 3,040,-420, 6–26–62, Cl. 29—229.

Kulp, Harry W., to K-D Mfg. Co. Piston ring applying and removing device. 3,048,918, 8–14–62, Cl. 29—224.

Kulpa, Stephen F.: *See*—
Parske, Charles A., and Kulpa. 3,038,386.

Kumagai, Harry M., and T. B. Shiu, to Machinery Development Co. Packaging apparatus and process. 3,059,388, 10–23–62, Cl. 53—39.

Kumai, Akira: *See*—
Ohba, Seiichi, Yonezawa, and Kumai. 3,022,172.

Kumm, Brent, to Koontz-Wagner Electric Co., Inc. Electromagnet. 3,036,247, 5–22–62, Cl. 317—165.

Kumm, Emerson D., and W. Black, to Curtiss-Wright Corp. Gas turbine speed control. 3,025,036, 3–13–62, Cl. 253—59.

Kummen, Hjormund: *See*—
Nuttall, Clifford J., Jr., Blank, and Kummen. 3,035,654.

Kummerer, Richard A., A. D. Besten, and J. T. Chester. Chain. 3,054,301, 9–18–62, Cl. 74—250.

Kummerle, Herman F.: *See*—
Hard, Robert A., and Kummerle. 3,069,231.

Kummerman, Henri, to MacGregor-Comarain. Method and means for mounting and operating hingedly interconnected panel elements for closing hatchways, railways cars and like open spaces. 3,045,746, 7–24–62, Cl. 160—206.

Kummeth Mfg. Co.: *See*—
Schmidtke, Donald A. 3,066,991.

Kump, Herbert J.: *See*—
Bertelsen, Bruce L., and Kump. 3,058,112.

Kump, Herbert J., to International Business Machines Corp. Recording head. 3,052,885, 9–4–62, Cl. 346—74.

Kuna, Samuel: *See*—
Wilson, Armin G., and Kuna. 3,029,275.

Kuna, Samuel, and A. W. Pircio, to Bristol-Myers Co. Analgesic dihydroxymethylbenzimidazol-2-ones. 3,024,166, 3–6–62, Cl. 167—65.

Kuna, Samuel, and A. W. Pircio, to Bristol-Myers Co. Analgesic 5-lower alkyl-2-amino thiazoles. 3,036,955, 5–29–62, Cl. 167—65.

Kuna, Samuel, and A. W. Pircio, to Bristol-Myers Co. Analgesic cyclobutanes. 3,051,622, 8–28–62, Cl. 167—65.

Kundtz, Louvenia L.: *See*—
Kundtz, Theodore S. and L. L. 3,026,143.

Kundtz, Theodore S. and L. L. Folding rocking chair. 3,026,143, 3–20–62, Cl. 297—258.

Kunen, Alfred E. Air conditioning control units. 3,020,-819, 2–13–62, Cl. 98—38.

Kunen, Alfred E., to Republic Aviation Corp. Magnetic compression engine. 3,032,978, 5–8–62, Cl. 60—35.6.

Kunes, Arnold R.: *See*—
Patten, Stanley H., and Kunes. 3,043,710.

Kunetka, Robert E. : *See*—
Allen, Joseph C., and Kunetka. 3,026,935.

Kunkel, Anne M. : *See*—
O'Leary, John F., Kunkel, and Jones. 3,063,901.

Kunkel, Elzy O., ⅜ to I. C. Ellick. Float device. 3,031,695, 5–1–62, Cl. 9—310.

Kunkel, Joseph M., Jr. : *See*—
Greene, Charles R., and Kunkel. 3,062,796.

Kunkel, Wulf B. : *See*—
Baker, William R., Bratenahl, and Kunkel. 3,021,272.

Kunkle, Gerald E., and W. C. Harrell, to Pittsburgh Plate Glass Co. Manufacture of glass. 3,066,453, 12–4–62, Cl. 51—110.

Kunkle Valve Co. : *See*—
Young, Maurice W., and Schromshaw. 3,019,811.

Kunkler, Harry G. : *See*—
Freeman, Harvey S., and Kunkler. 3,029,957.

Kunreuther and Merfeld : *See*—
Merfeld, Kurt W. 3,042,984.

Kunsch, Joachim, and P. Stolarski. Wheel chair propulsion and braking arrangement. 3,053,550, 9–11–62, Cl. 280—248.

Kunstzijdespinnerij Nyma N.V. : *See*—
Vosters, Harry L. 3,016,305.

Kuntz, Henry A. Lawn weed pulling tool. 3,050,327, 8–21–62, Cl. 294—50.5.

Kuntz, Howard J. : *See*—
Vincent, John N., and Kuntz. 3,022,913.

Kuntz, Irving : *See*—
Argabright, Perry A., and Kuntz. 3,030,344.
Argabright, Perry A., and Kuntz. 3,070,470.
Serniuk, George E., and Kuntz. 3,033,832.

Kuntz, Josef, to G. Kochheim. Flat knitting apparatus. 3,024,633, 3–13–62, Cl. 66—60.

Kuntz, Louis E., and M. A. Remke, to Phillips Petroleum Co. Metering system for liquids. 3,019,649, 2–6–62, Cl. 73—223.

Kuntze, George H. : *See*—
Summers, Virgil H., McClure, and Kuntze. 3,018,116.

Kuntzleman, Harry C., and J. G. Simek, to International Business Machines Corp. Delayed coincidence circuit. 3,015,738, 1–2–62, Cl. 307—88.

Kuntzmann, Paul L. E., to Compagnie des Transmissions Mecaniques Seine-Doubs-Isere. Transmission chain. 3,068,712, 12–18–62, Cl. 74—255.

Kunz, Charles J. : *See*—
Russell, Harold D., and Kunz. 3,025,779.

Kunz, Charles J., to Eastman Kodak Co. Transport and guide mechanism. 3,067,919, 12–11–62, Cl. 226—188.

Kunz, Cleon V., to United Aircraft Corp. Tube-to-tube sheet fabrication. 3,0155,508, 1–2–62, Cl. 287—20.2.

Kunz, Eric C., and D. Ensminger; said Ensminger assor. to said Kunz. Preparation of perfumes. 3,025,220, 3–13–62, Cl. 167—94.

Kunz, Jacob T., to Schulmerich Electronics, Inc. Electrical musical instrument having mechanically vibratable tone generators. 3,048,071, 8–7–62, Cl. 84—1.11.

Kunz, Robert. Skid shoe for automobiles. 3,025,002, 3–13–62, Cl. 238—14.

Kunz, Walden H., to North American Aviation, Inc. Servosystem adapted for angular measurement. 3,040,222, 6–19–62, Cl. 318—32.

Kunz, Walter B., to American Viscose Corp. Method of preparing amylose film, tubing and the like. 3,030,667, 4–24–62, Cl. 18—57.

Kunze, Wilhelm : *See*—
Zerweck, Werner, Bulian, Kunze, and Kiesewetter. 3,026,953.

Kunze, William A. R. Anchor tabs for hair curling and waving device. 3,052,243, 9–4–62, Cl. 132—42

Kunze, Willy : *See*—
Kietz, Hans, and Kunze. 3,017,606.

Kunzer, Werner, and F. Leutert, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Apparatus for the production of hydrochloric acid from waste gases containing hydrogen chloride. 3,036,418, 5–29–62, Cl. 55—71.

Kunzke, Hans-Joachim, to Olympia Werke AG. Reversible electronic sequence switching network. 3,067,341, 12–4–62, Cl. 307—88.5.

Kunzler, William S. : *See*—
Wantz, Clarence, and Kunzler. 3,062,449.

Kunzmann, Ludwig, to Rodi & Wienenberger Aktiengesellschaft. Elastic link straps. 3,066,475, 12–4–62, Cl. 59—79.

Kupchan, S. Morris, to Wisconsin Alumni Research Foundation. Esters of protoverine. 3,066,142, 11–27–62, Cl. 260—287.

Kupchan, S. Morris. to Wisconsin Alumni Research Foundation. Esters of protoverine. 3,066,143, 11–27–62, Cl. 260—287.

Kupchan, S. Morris, to Wisconsin Alumni Research Foundation. Esters of protoverine. 3,066,144, 11–27–62, Cl. 260—287.

Kupchick, John J., to Marlin-Rockwell Corp. Ball bearing with resilient retainers. 3,037,827, 6–5–62, Cl. 308—199.

Kupferberg, Kenneth : *See*—
Rosenfeld, Aaron, and Kupferberg. 3,028,538.
Rosenfeld, Aaron, and Kupferberg. 3,056,905.

Kupka, John J., to McKiernan-Terry Corp. Super calender with constant nip alignment. 3,016,819, 1–16–62, Cl. 100—163.

Kupka, John J., to McKiernan-Terry Corp. Concrete pile form with pneumatically expansible and contractible removable drive core. 3,041,839, 7–3–62, Cl. 61—53.72.

Kupka, John J., to McKierman-Terry Corp. Synchronized and equalized opposed hammer press. 3,050,809, 8–28–62, Cl. 25—91.

Kuppenbender, Heinz, O. Erbe, and C. Ludwig, to Carl Zeiss. Photographic cameras, particularly motion picture cameras provided with exchangeable objectives. 3,054,324, 9–18–62, Cl. 88—16.

Kuppens, Barnadus J., to North American Philips Co., Inc. Adjustable arrangement for positioning carbon rods for striking an arc. 3,046,437, 7–24–62, Cl. 314—51.

Kuppers, Josef, and A. Schultheiss, to Firma Franz Muller. Raising or napping machine. 3,026,596, 3–27–62, Cl. 26—35.

Kuppers Metallwerk G.m.b.H. : *See*—
Melchiors, Horst, and Witte. 3,065,538.

Kura, John G. : *See*—
Davis, Dexter C., Jr., Freeman, and Kura. 3,048,892.

Kuramoto, Simpey, to General Mills, Inc. Textile yarn sizing process. 3,055,772, 9–25–62, Cl. 117—139.5.

Kuranz, Robert L., to The Parker Pen Co. Filler device for fountain pens. 3,038,506, 6–12–62, Cl. 141—30.

Kurashige, Hirotoshi : *See*—
Fukushima, Osamu, and Kurashige. 3,066,107.

Kurashiki Rayon Co., Ltd. : *See*—
Akaboshi, Michijiro, Uragami, and Okuma. 3,052,610.
Fukushima, Osamu. 3,066,032.
Fukushima, Osamu, and Kurashige. 3,066,107.
Fukushima, Osamu, and Matsubayashi. 3,067,152.
Hirano, Katsuaki, Takada, Kawamura, Suzumura, and Nagano. 3,061,884.
Matsubayashi, Kanji, and Fukushima. 3,053,786.
Miyahara, Hisao, Hirano, Suzumura, and Nagano. 3,058,862.
Miyahara, Hisao, and Suzumura. 3,048,530.
Nakajo, Shogo, and Morita. 3,066,999.
Onishi, Tsuneo, and Kobayashi. 3,020,383.
Osugi, Tetsuro, Tanabe, Kawabe, Hisashige, Morimoto, and Miyazaka. 3,027,224.
Osugi, Tetsuro, Tanabe, and Mochizuki. 3,032,385.
Oyanagi, Yasuji. 3,055,866.
Shiraishi, Makoto, and Matsumoto. 3,052,662.
Tanabe, Kenichi, and Matsubayashi. 3,053,605.
Tanabe, Kenichi, and Ohno. 3,023,182.
Tanabe, Kenichi, Suda, Miyazaki, and Osugi. 3,044,974.

Kurath, Paul, and J. W. Cole, to Abbott Laboratories. Steroids containing A 16/17-lactone ring. 3,045,012, 7–17–62, Cl. 260—397.

Kurek, Edwin J., to New Castle Products, Inc. Grating for defining and controlling an air screen. 3,023,689, 3–6–62, Cl. 98—36.

Kurek, Frank L. Process and apparatus for filling pressure tight cans. 3,020,685, 2–13–62, Cl. 53—7.

Kurek, Frank L. Apparatus for controlled dispensing of liquids. 3,054,533, 9–18–62, Cl. 222—70.

Kurens, Philip J. Metal desk construction. 3,038,770, 6–12–62, Cl. 312—221.

Kurfman, Virgil B., to the Dow Chemical Co. Method of degasing melt of light metal. 3,025,154, 3–13–62, Cl. 75—67.

Kurha, Kurt A., and H. M. Bond, to Minnesota Mining and Mfg. Co. Electrical insulating resin. 3,027,279, 3–27–62, Cl. 117—232.

Kurhajec, George A., D. L. Johnston, and K. E. Furman, to Shell Oil Co. Production of carboxylic acids. 3,047,622, 7–31–62, Cl. 260—533.

Kurhan, Maurice, to The Gilman Bros. Co. Packing or shipping container. 3,027,286, 3–27–62, Cl. 156—264.

Kurihara, Sadasuke. Chair. 3,034,828, 5–15–62, Cl. 297—309.

Kuris, Arthur : *See*—
Balamuth, Lewis, Kuris, and Kleesattel. 3,053,124.
Kleesattel, Claus, Balamuth, and Kuris. 3,056,698.
Kleesattel, Claus, Balamuth, and Kuris. 3 058,218.
Kleesattel, Claus, Kuris, and Balamuth. 3,053,125.

Kuris, Arthur, L. Balamuth, and C. Kleesattel, to Cavitron Ultrasonics Inc. Ultrasonic welding. 3,051,027, 8–28–62. Cl. 78—82.

Kuritsky, Morris M. : *See*—
Shapiro, Albert J., and Kuritsky. 3,029,016.

Kurlitza, Oleh M., to Motorola, Inc. Ignition system. 3,019,782, 2–6–62, Cl. 123—179.

Kurkjy, Raymond P. : *See*—
Barclay, Robert, Jr., and Kurkjy. 3,054,819.

Kurland, Jerome J. and J. J., to Illinois Condenser Co. High-temperature miniature condenser construction. 3,019,376, 1–30–62, Cl. 317—242.

Kurland, Joseph J. : *See*—
Kurland, Jerome J. and J. J. 3,019,376.

Kurlander, John, and H. Althen, to Ski Waxer, Inc. Ski waxing device. 3,045,639, 7–24–62, Cl. 118—1.

Kurlinski, Dale T., to The Hoover Co. Steam iron. 3,045,371, 7–24–62, Cl. 38—77.

Kurose, Yuriko : *See*—
Ozaki, Reona, and Kurose. 3,033,714.

Kurowski, Victor J., to General Electric Co. Control system for clothes dryers. 3,031,768, 5–1–62, Cl. 34—45.

Kurowski, Victor J., to General Electric Co. Clothes drier lint burner. 3,040,441, 6–26–62, Cl. 34—79.

Kurschner, Lloyd F. Clip attachment for mounting guide sticks, secondary brushes, and the like on a paint brush. 3,037,231, 6–5–62, Cl. 15—246.

Kurshan, Jerome, to Radio Corp. of America. Method of etching semi-conductor bodies. 3,023,153, 2–27–62, Cl. 204—143.

Kurt, Ewald H. : *See*—
Morrison, William A., and Kurt. 3,055,647.

Kurt, Ewald H., to Ingersoll-Rand Co. Fluid motors. 3,055,343, 9–25–62, Cl. 121—9.

Kurth, Ervin F., to the State of Oregon acting by and through The Oregon State Board of Forestry. Producing pure dihydroquercetin. Re. 25,135, 3–13–62, Cl. 260—345.2.

Kurti, Alexander, to United Aircraft Corp. Ducted fan engine thrust reverser. 3,040,524, 6–26–62, Cl. 60—35.54.

Kurtz, Aaron H. Egg washing apparatus. 3,024,793, 3–13–62, Cl. 134—56.

Kurtz, Aaron H., to Automatic Poultry Feeder Co. Chicken nests. 3,062,185, 11–6–62, Cl. 119—48.

Kurtz, Donald P., to Aircraft Radio Corp. Starting circuit for transistor power supply. 3,020,491, 2–6–62, Cl. 331—113.

Kurtz, Dora E. : *See*—
Poorman, John E., and Kurtz. 3,062,080.

Kurtz, John S., to Automatic Poultry Feeder Co. Roll-a-way nest. 3,046,940, 7–31–62, Cl. 119—48.

Kurtz, Kerwin K. : *See*—
Hess, Irwin H., and Kurtz. 3,046,259.

Kurtz, Louis A., to Hughes Aircraft Co. Dual beam tracking system. 3,026,513, 3–20–62, Cl. 343—7.4.

Kurtz, Robert A. : *See*—
Antoszewski, Walter J., and Kurtz. 3,065,549.
Johnson, John R., and Kurtz. 3,025,786.
Lauck, Albert G., and Kurtz. 3,043,447.

Kurtz, Samuel : *See*—
McCulley, John W. 3,029,878.

Kurvers, Robert J. : *See*—
Swales, Frank, Kurvers, and Green. 3,019,653.

Kury, Josef : *See*—
Bobst, Henri, and Kury. 3,060,776.
Bobst, Henri, and Kury. 3,063,263.

Kury, Josef, to J. Bobst and Son SA. Driving mechanisms of the movable platen of a platen-press. 3,044,393, 7–17–62, Cl. 100—286.

Kuryla, Alan T. : *See*—
Stone, Elmer O., and Kuryla. 3,036,238.

Kurz, Alvin M., and W. A. Van Wicklin, Jr., to Ford Motor Co. Central hydraulic system. 3,016,710, 1–16–62, Cl. 60—54.5.

Kurz, Karl F., to Sawyer's Inc. Tachistoscope. 3,018,686, 1–30–62, Cl. 88—27.

Kurz, Rainer. Apparatus for producing and conditioning chemical mixtures. 3,035,902, 5–22–62, Cl. 23—252.

Kurz, Rainer, to Paul Lechler, Firma. Apparatus for pretreating chemically reacting materials. 3,039,859, 6–19–62, Cl. 23—288.

Kurzinski, Edward F., to Air Products and Chemicals, Inc. Fluid transfer device. 3,065,916, 11–27–62, Cl. 239—132.

Kurzke, Herbert, and H. Sattler, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the uniform preparation of shaped structures such as filaments or foils from high-melting linear polyesters. 3,030,173, 4–17–62, Cl. 18—54.

Kusama, Jun, to Shin Nippon Chisso Hiryo Kabushiki Kaisha. Process for the saccharification of cellulose-containing material. 3,067,065, 12–4–62, Cl. 127—37.

Kusama, Shojiro, to Maruzen Kabushiki Kaisha. Felt pen. 3,032,802, 5–8–62, Cl. 15—563.

Kusan Inc. : *See*—
McLain, William R. 3,049,814.

Kusche, Norman A., to I-T-E Circuit Breaker Co. Adjustable auxiliary switch. 3,050,604, 8–21–62, Cl. 200—155.

Kuschel, Gerhard : *See*—
Buske, Fritz, and Kuschel. 3,042,421.

Kusel, Ernst : *See*—
Hornstein, Victor, Schneider, and Kusel. 3,064,915.

Kush, Theodore G., to Allis-Chalmers Mfg. Co. Antispread device for industrial truck masts. 3,018,849, 1–30–62, Cl. 187—9.

Kush, Vernon P., to Socony Mobil Oil Co., Inc. Hydrocarbon conversion reactor cooling. 3,052,624, 9–4–62, Cl. 208—48.

Kushion Kooler Corp. : *See*—
Kottemann, Otto A. 3,030,145.

Kushner, Leonard H. Lighting fixtures. 3,033,981, 5–8–62, Cl. 240—51.11.

Kushner, Sidney J. Hand manipulated household cleaning appliance. 3,052,910, 9–11–62, Cl. 15—531.

Kusko, Alexander, to Hevi-Duty Electric Co. Regulator. 3,022,426, 2–20–62, Cl. 307—14.

Kusko, Alexander, to Sylvania Electric Products, Inc. Series-transformer circuit. 3,038,113, 6–5–62, Cl. 323—61.

Kusmer, Seymour, and H. N. Rosen. Distributor points setting device. 3,029,519, 4–17–62, Cl. 33—168.

Kuss, R. L., & Co., Inc. : *See*—
Webb, Edmond F. 3,033,274.

Kuster, Edwin, to Alos A.G. Photographic copy position apparatus. 3,036,495, 5–29–62, Cl. 88—24.

Küster, Rolf : *See*—
Trägner, Erich, and Küster. 3,050,793.

Kuster, William F., to Signode Steel Strapping Co. Nested seal blank. 3,032,184, 5–1–62, Cl. 206—65.

Kuster, Werner, to J. R. Geigy, A.-G. Conversion products of azo dyestuffs containing heavy metal bound in complex linkage. 3,030,353, 4–17–62, Cl. 260—147.

Küsters, Eduard : *See*—
Appenzeller, Valentin. 3,043,211.

Küsters, Eduard, to Textilmaschinen Eduard Kusters. Roll arrangements for subjecting strip or web material to pressure treatment. 3,023,695, 3–6–62, Cl. 100—170.

Kusters, Eduard, to Eduard Kusters Textilmaschinen. Fluid pressure roll. 3,031,872, 5–1–62, Cl. 68—258.

Kusters, Eduard, to Eduard Kusters, Textilmaschinen. Apparatus for treating textile and like materials. 3,059,460, 10–23–62, Cl. 68—158.

Kusters, Eduard, and V. Appenzeller, to Textilmaschinen Eduard Kusters. Rollers for the pressure treatment of material in web form. 3,046,637, 7–31–62, Cl. 29—113.

Kusters, Eduard, Maschinenfabrik : *See*—
Appenzeller, Valentin. 3,050,829.

Kusters, Eduard, Textilmaschinen : *See*—
Kusters, Eduard. 3,031,872.
Kusters, Eduard. 3,059,460.

Kusters, Norbert L. : *See*—
McKinley, Donald W. R., Kusters, and Morse. 3,066,284.

Kustusch, Paul W. Hydromechanical device. 3,030,776, 4–24–62, Cl. 60—54.5.

Kusy, Paul F. : *See*—
Bulat, Thomas J., Logan, and Kusy. 3,017,342.

Kusznier, Steve. Waterite. 3,037,710, 6–5–62, Cl. 239—526.

Kuthe Laboratories, Inc. : *See*—
Krefft, Hermann E. 3,025,428.
Krefft, Hermann E. 3,048,727.

Kutik, Leon : *See*—
Carlick, Daniel J., Kennedy, Kutik, and Roth. 3,039,979.

Kutik, Leon, to Interchemical Corp. Coated cured synthetic rubber substrate. 3,017,293, 1–16–62, Cl. 117—138.8.

Kutik, Louis F. Pool balls. 3,046,013, 7–24–62, Cl. 273—59.

Kutner, Abraham, to Hercules Powder Co. Vat dyeing of polypropylene. 3,056,643, 10–2–62, Cl. 8—34.

Kutner, Abraham, to Hercules Powder Co. Polymerization of epihalogenohydrins. 3,058,923, 10–16–62, Cl. 260—2.

Kutney, John T., to General Electric Co. Noise suppression nozzle. 3,053,340, 9–11–62, Cl. 181—33.

Kutny, Istvan. Sand regenerating and cupola preheating apparatus. 3,029,484, 4–17–62, Cl. 22—89.

Kutsche, Robert O., to Lear, Inc. Fluid actuator. 3,063,424, 11–13–62, Cl. 121—40.

Kutsmichel, Rudolf, to Dunlop Rubber Co. Ltd. Pneumatic tyres. 3,024,825, 3–13–62, Cl. 152—209.

Kuttler, Joseph, to Brake and Bearing Service Co., Inc. Obstruction operated brake setting mechanism for road vehicle. 3,042,129, 3–6–62, Cl. 180—82.

Kutzler, Robert J., to Minneapolis-Honeywell Regulator Co. Pressure ratio measurement means. 3,045,492, 7–24–62, Cl. 73—407.

Kutzler, Robert J., to Minneapolis-Honeywell Regulator Co. Control system. 3,046,681, 7–31–62, Cl. 37—143.

Kutzler, Robert J., to Minneapolis-Honeywell Regulator Co. Control apparatus. 3,051,137, 8–28–62, Cl. 121—38.

Kutzler, Robert J., to Minneapolis-Honeywell Regulator Co. Control apparatus for earth moving equipment. 3,064,-371, 11–20–62, Cl. 37—126.

Kuwatsuka, Yasuhiko : *See*—
Hirao, Motozo, Haruta, Kuwatsuka, Munekata, and Imamoto. 3,025,136.

Kuwertz, Erich : *See*—
Frasch, Harald, and Kuwertz. 3,057,454.

Kux Products Co. : *See*—
Loewe, Garrick. 3,066,724.

Kuyama, Katsumasa : *See*—
Tanaka, Tetsuro, Tagawa, and Kuyama. 3,028,564.

Kuykendall, James H., to Tung-Sol Electric Inc. Ignition system. 3,032,684 5–1–62. Cl. 315—183.

Kuzell, Charles R. Prothrombin time determining apparatus 3,041,146, 6–26–62, Cl. 23—253.

Kuzell, Charles R., M. G. Fowler, J. H. Davis, Jr., L. Klein, W. J. Uren, and I. Macdougall, to Phelps Dodge Corp. Hydraulic quenching and granulation of molten materials. 3,023,454, 3–6–62, Cl. 18—2.5.

Kuzell, Charles R., M. G. Fowler, J. H. Davis, Jr., L. Klein, and I. MacDougall, to Phelps Dodge Corp. Apparatus producing sponge iron. 3,051,467, 8–28–62, Cl. 266—24.

Kuzenko, Michael T. Course and bearing computer. 3,034,-713, 5–15–62, Cl. 235—78.

Kuzyk, William, to Avco Aircraft Ltd. Means inducing a flow of cooling air for gas turbine engines. 3,058,302, 10–16–62. Cl. 60—35.6.

Kwake, John P. Swimming pool. 3,064,273, 11–20–62, Cl. 4—172.

Kwap, Theodore W. : *See*—
Keeler, Eugene R., and Kwap. 3,070,752.

Kwast, Victor B., to Daystrom Inc. Frequency transducer. 3,067,376, 12–4–62, Cl. 321—16.

Kwei, Chung S. Photo-composing machine. 3,059,554, 10–23–62, Cl. 95—4.5.

Kweskin, Ethel. Display stand. 3,035,362, 5–22–62, Cl. 40—124.

Kwik-Kold of America, Inc. : *See*—
Robbins, Albert A. 3,023,587.

Kwik-Kover Mfg. Co. : *See*—
Taff, Harry J. 3,027,056.

Kwik Lok Corp. : *See*—
Irwin, Jere F. 3,061,983.

Kwik Vent Corp. : *See*—
Lahti, Rudolph J. 3,053,555.

Kwisnek, Charles. Applicator for placing a harness on a live minnow. 3,022,572, 2–27–62, Cl. 29—225.
Kwitek, Edwin M., to Paper Converting Machine Co., Inc. Progressive transverse web cutting apparatus. 3,056,323, 10–2–62, Cl. 83—342.
Kwolek, Stephanie L., P. W. Morgan, and W. R. Sorenson, to E. I. du Pont de Nemours and Co. Process of making wholly aromatic polyamides. 3,063,966, 11–13–62, Cl. 260—78.
Kyame, George J., and W. A. Latour, to United States of America, Agriculture. Air-blast doffer and condenser. 3,046,612, 7–31–62, Cl. 19—203.
Kyburz, Emilio : *See*—
Fürst, Andor, and Kyburz. 3,021,335.
Fürst Andor, Kyburz, and Majnoni. 3,038,003.
Kyffin, Robert K. : *See*—
Axon, Peter E., Kyffin, and Frost. 3,064,076.
Kyle, James C., and G. R. Curtis, to Physical Sciences Corp. Potentiometers. 3,056,934, 10–2–62, Cl. 338—12.
Kyle, Kermit, Sr. Tool holder. 3,027,169, 3–27–62, Cl. 279—8.
Kyle, William K., to Westinghouse Electric Corp. Safety control circuits for the motors of refrigerant compressors. 3,064,444, 11–20–62, Cl. 62—161.
Kyle, William K., to Westinghouse Electric Corp. Safety control circuits for the motors of hermetically sealed refrigerant compressors. 3,065,381, 11–20–62, Cl. 317—13.
Kylen, Karl E. J., to Svenska Kullagerfabriken, Aktiebolaget. Press fitting joint. 3,063,743, 11–13–62, Cl. 287—53.
Kyoto Machinery Co., Ltd. : *See*—
Fujihashi, Seitaro. 3,066,518.
Kyowa Hakko Kogyo Co., Ltd. : *See*—
Abe, Shigeo, Furuya, Saito, and Takayama. 3,063,910.
Kyowa Hakko Kogyo Kabushiki Kaisha : *See*—
Kamada, Hideo, Wakaki, Tomioka, Ueyama, Uzu, Marumo, and Fujimoto. 3,044,935.
Kinoshita, Shukuo, and Udaka. 3,028,310.
Kyriakides, Stavros A. : *See*—
Sweet, Donald L., and Kyriakides. 3,048,509.
Kyrk, Anthony R. Paper clip. 3,064,326, 11–20–62, Cl. 24—66.
Kyser, Smith, to Mazurflo Corp. Container pouring device with means to indicate degree of tilt. 3,052,375, 9–4–62, Cl. 222—41.
Kyte, John R., to Jersey Production Research Co. Oil displacement by water containing suspended clay. 3,051,234, 8–28–62, Cl. 166—9.
L.A.B. Corp. : *See*—
Hill, Gilbert P. 3,037,378.
L & B Welding Equipment, Inc. : *See*—
Brashear, Turner G. 3,024,353.
Brashear, Turner G., Jr., and Leader. 3,019,328.
Leader, Forest. 3,021,081.
L. & C. Hardtmuth, Inc. : *See*—
Danjczek, William E. 3,055,546.
Riepe, Helmut. 3,055,341.
L.I.R.C. Laboratori Italiani di Ricerca Chimica : *See*—
Messina, Giuseppe, De Pisapia, Spano, and Condorelli. 3,056,829.
L.J.R. Corp. : *See*—
Keilman, James J. 3,019,056.
L-K Pump Valve Co. : *See*—
Wendt, Alex M. 3,070,120.
L & M Space Research and Electronics Corp. : *See*—
Lovret, Frederick I. 3,026,392.
Laager, Creston F., to United States of America, Army. Spin, tangential device for projectiles. 3,058,423, 10–16–62, Cl. 102—51.
Laakso, Perttu V., to The Kendall Co. Fungicidal compounds, compositions thereof, and methods of utilizing same. 3,037,905, 6–5–62, Cl. 167—30.
Laakso, Thomas M., and C. S. Garber, to Eastman Kodak Co. Antistatic photographic element comprising a styrene copolymer layer. 3,033,679, 5–8–62, Cl. 96—87.
Laakso, Thomas M., and D. A. Buckley, to Eastman Kodak Co. Mixed polycarbonates of bisphenol A and tetrachlorobisphenol A. 3,038,874, 6–12–62, Cl. 260—42.
Laakso, Thomas M., and D. A. Buckley, to Eastman Kodak Co. Block copolycarbonates from tetrachloro bisphenol A and 4,4′-bis (hydroxyphenyl)-naphthyl methanes. 3,038,879, 6–12–62, Cl. 260—47.
Laakso, Thomas M., and M. C. Petropoulos, to Eastman Kodak Co. Block copolymers of polycarbonates from 2-phenylbisphenol A and 4,4′-bis-(hydroxyphenyl)-methyldihalophenylmethanes and the latter compounds per se. 3,038,880, 6–12–62, Cl. 260—47.
Laakso, Thomas M., and R. Fleisher, to Eastman Kodak Co. Antistatic copolymers comprising salts of n-sulfoalkyl-α,β-unsaturated dicarboxylic imides. 3,039,870, 6–19–62, Cl. 96—87.
Laakso, Thomas M., and J. L. R. Williams, to Eastman Kodak Co. Condensation products of C-vinylpyridinium haloketone polymers with hydrazides containing quaternary nitrogen groups. 3,062,785, 11–6–62, Cl. 260—65.
Laakso, Thomas M., and J. L. R. Williams, to Eastman Kodak Co. Quaternary salts of C-vinylpyridine polymers with haloacetone cyanohydrins. 3,068,215, 12–11–62, Cl. 260—88.3.
Laas, Eugene D., to United States of America, Air Force. Differential pressure gauge. 3,052,126, 9–4–62, Cl. 73—407.
Laas Kurt : *See*—
Lurk, Hans-Joachim, and Laas. 3,059,057.
Meigel, Helmut, Laas, and Papke. 3,026,376.
Laas, Kurt, to Siemens and Halske Aktiengesellschaft. Circuit arrangement for connectors having access to P.B.X. telephone lines and controlled by marker devices. 3,051,794, 8–28–62, Cl. 179—18.
Laas, Kurt, to Siemens & Halske Aktiengesellschaft. Battery feed telephone lines assessible to connectors. 3,053,937, 9–11–62, Cl. 179—18.
Laas, William E. Device for deflecting the tone of a musical instrument. 3,016,782, 1–16–62, Cl. 84—453.
Laba, George. Fish hook having bait retaining means. 3,034,250, 5–15–62, Cl. 43—44.8.
La Barge, Robert F., to Martin-Marietta Corp. Sealing means for electrolytic cells. 3,030,295, 4–17–62, Cl. 204—242.
La Bash, John, Jr., and M. E. Eilers, to Olin Mathieson Chemical Corp. Method of sealing electric blasting caps. 3,035,474, 5–22–62, Cl. 86—1.
Labastie, Albert H., E. Wester, and D. C. Blowers, to General Electric Co. Combustor construction with means for prevention of hot streaks. 3,049,882, 8–21–62, Cl. 60—39.66.
Labbe, Francis A. M., to Molins Machine Co, Ltd. Cigarette-making machines of the continuous rod type. 3,019,793, 2–6–62, Cl. 131—84.
Labbe, Francis A. M., to Usines Decoufle. Tobacco manipulating machines. 3,030,965, 4–24–62, Cl. 131—61.
Labeyrie, Jacques : *See*—
Koch, Lydie, and Labeyrie. 3,035,173.
Labino, Dominick, to Johns-Manville Fiber Glass Inc. Refractory blocks. 3,019,117, 1–30–62, Cl. 106—66.
Labino, Dominick, to Johns-Manville Fiber Glass Inc. Apparatus for producing a low density mat of glass fibers. 3,028,631, 4–10–62, Cl. 18—2.5.
Labino, Dominick, to Johns-Manville Fiber Glass Inc. Gas burner. 3,049,172, 8–14–62, Cl. 158—99.
Labino, Dominick, to Johns-Manville Corp. Glass composition. 3,053,672, 9–11–62, Cl. 106—50.
Labino, Dominick, to Johns-Manville Fiber Glass Inc. High temperature pipe insulation and method of making same. 3,053,715, 9–11–62, Cl. 154—44.
Labino, Dominick, to Johns-Manville Fiber Glass Inc. Method and apparatus for forming and collecting fibers into an improved pipe covering. 3,063,887, 11–13–62, Cl. 156—37.
Labino, Dominick, to Johns-Manville Corp. Apparatus for attenuating glass fibers. 3,065,614, 11–27–62, Cl. 65—16.
Labino, Dominick, and L. V. Gagin, to Johns-Manville Fiber Glass Inc. High temperature resistant siliceous compositions and method of producing. 3,017,318, 1–16–62, Cl. 162—152.
Labman, Max L. : *See*—
Rabinow, Jacob. 3,016,687.
La Boda, Mitchell A., and C. R. Wiese, to General Motors Corp. Treatment of metal surfaces. 3,057,764, 10–9–62, Cl. 156—6.
La Boda, Mitchell A., and C. R. Wiese, to General Motors Corp. Composition and method for milling stainless steel and nickel base alloys. 3,057,765, 10–9–62, Cl. 156—18.
Labofina : *See*—
De Radzitzky, Pierre. 3,021,374.
La Bombard, Leon E., to The International Paper Box Machine Co. Creasing apparatus, method and product. 3,039,372, 6–19–62, Cl. 93—85.8.3.
La Bombard, Leon E., to The International Paper Box Machine Co. Method and apparatus for side registration of box blanks. 3,053,155, 9–11–62, Cl. 93—58.3.
Labombarde, Philip D. Apparatus and method for glossy wax coating. 3,070,457, 12–25–62, Cl. 117—46.
Laboratoires Cassenne : *See*—
Rosenberg, Elias E. 3,067,240.
Laboratoires de Physique Appliquee-L.E.G.P.A., les : *See*—
Dion, Georges. 3,068,691.
Laboratoires Deusse, Les : *See*—
Bordell, Don P. L., and Najer. 3,033,869.
Laboratoires Francais de Chimiotherapie, Les : *See*—
Amiard, Gaston, and Heymes. 3,018,293.
Amiard, Gaston, Martel, Heymes, and Velluz. 3,024,271.
Joly, Robert, and Warnant. 3,017,409.
Joly, Robert, Warnant, and Nomine. 3,027,385.
Muller, Georges. 3,022,309.
Muller, Georges, and Politzavin. 3,018,283.
Muller, Georges, and Stefanovic. 3,022 324.
Nomine, Gerard, and Bertin. 3,019,252.
Nomine, Gerard, Bertin, and Tessier. 3,020,296.
Nomine, Gerard, and Bucourt. 3,033,856.
Velluz, Leon, Muller, and Allais. 3,018,286.
Laboratoires Millot : *See*—
Velley, Georges C. 3,048,522.
Laboratoires Vifor S.A. : *See*—
Grosclaude, René. 3,016,669.
Laboratories for Electronics, Inc. : *See*—
Barker, John L. 3,056,107.
Barker, John L. 3,059,232.
Brinkerhoff, Joris M. 3,036,774.
Brockett, Peter C. 3,056,946.
Faulkner, William H., Jr. and Leone. 3,053,983.
Fuller, Harrison W., Woodsum, Darou, and Ledin. 3,039,102.
Fuller, Harrison W., and Ledin. 3,060,431.
Heaton, Roy G. 3,059,179.
Kelner, Robert C. 3,046,530.

Laboratories for Electronics, Inc.: *See*—Continued
Lawrence, Thomas E., Kelner, Gardiner, and Evans. 3,054,987.
Lee, Roger K., Jr., and Gorman. 3,060,433.
Meyer, Maurice A., Ostroff, and Rubinstein. 3,032,748.
Mosher, Richard K., and Wight. 3,047,856.
Rogers, John V. 3,034,048.
Rubinstein, Harvey, and Knight. 3,048,706.
Wight, Albert B. 3,067,419.
Ziffer, Garret F. 3,067,939.

Laboratories for Pharmaceutical Development, Inc.: *See*—
Broh-Kahn, Robert H., and Sasmor. 3,069,321.

Laboratory Equipment Corp.: *See*—
Bennet, Eugene L. 3,019,808.
Bennet, Eugene L. 3,058,814.

Laboratory For Electronics, Inc.: *See*—
Barker, John L., and Midlock. 3,024,443.
Cole, Addison D., Levin, and Repella. 3,028,595.
Feuerstein, Erwin, and Sternberg. 3,020,496.
Ostroff, Edward D. 3,021,068.
Ziffer, Garret F. 3,024,404.

Laboratory Furniture Co., Inc.: *See*—
Liptay, John M. 3,041,957.

La Bore, Leonard J., and E. J. Dupre, to Minnesota Mining and Mfg. Co. Non-slip structures. 3,030,251, 4–17–62, Cl. 154—53.5.

Laborit, Henri M., to L'Equilibre Biologique. 4-hydroxy butyric acid therapeutic compositions and process of use for clinical sedation, hypnosis, or anaesthesia. 3,051,619, 8–28–62, Cl. 167—65.

Labounty, Ronald S.: *See*—
Goodwin, Harlan F., Labounty, and Lysik. 3,066,459.

La Bour, Harry E. Shaft seal. 3,046,063, 7–24–62, Cl. 308—187.1.

La Bov, Albert, to Philco Corp. Positioning mechanism. 3,065,398, 11–20–62, Cl. 318—467.

Labus, Edward A.: *See*—
Kizaur, Arthur J., and Labus. 3,037,119.

Lacabanne, Washington D.: *See*—
Loofbourow, Robert L., and Lacabanne. 3,064,436.

Lacan, Guy H., to Telemecanique Electrique, La. Switchboard assembly. 3,041,504, 6–26–62, Cl. 317—101.

Lacaze, Albert, and L. Weil, to Commissariat a l'Energie Atomique. Piping system for the transport of liquified gases. 3,039,275, 6–19–62, Cl. 62—45.

Lace, Donald A., to Electronic Specialties Co. Semi-conductor type low frequency oscillator. 3,054,970, 9–18–62, Cl. 331—107.

Lace, Harry S. Level. 3,046,672, 7–31–62, Cl. 33—207.

Lace, Melvin A., to American Photocopy Equipment Co. Apparatus for developing electrophotographic sheet. 3,037,478, 6–5–62, Cl. 118—637.

Lace, Robert H.: *See*—
Davis, Eugene F., and Lace. 3,058,871.

Lacefield, William B.: *See*—
Grunwald, Frederick A., and Lacefield. 3,056,780.

Lacey, Edward H. Artesian well control device. 3,039,533, 6–19–62, Cl. 166—120.

Lacey, Elbert N., Jr., to Rohr Aircraft Corp. Die for metal forming. 3,021,803, 2–20–62, Cl. 113—49.

Lacey, Richard N., to The Distillers Co. Ltd. Production of unsaturated ketones. 3,041,380, 6–26–62, Cl. 260—595.

Lacey, Richard N., to The Distillers Co. Ltd. Production of unsaturated ketones. 3,056,839, 10–2–62, Cl. 260—595.

Lacey, Richard N., and P. Nayler, to The Distillers Co. Ltd. Production of unsaturated ketones. 3,049,565, 8–14–62, Cl. 260—595.

Lach, John, to Uarco, Inc. Strip edge trimmer with means to urge strip into a flattened condition. 3,056,324, 10–2–62, Cl. 83—422.

Lachiche, Julien: *See*—
Thomas, Ivan, and Lachiche. 3,060,504.

Lachiche, Julien, to Novacel. Manufacture of an artificial chamois leather article. 3,060,514, 10–30–62, Cl. 18—48.

Lachman, Leon, and L. Malspeis, to Ciba Corp. Therapeutic lower alkyl esters of α-phenyl-a-piperidyl-(2)-acetic acid. 3,060,089, 10–23–62, Cl. 167—65.

Lachmann, Horst: *See*—
Meurer, Siegfried, Jaeckel, Wiebicke, and Lachmann. 3,054,390.
Meurer, Siegfried, Wiebicke, Lachmann, and Dusold. 3,020,896.
Wiebicke, Klaus, Jaeckel, and Lachmann. 3,035,558.

Lachowicz, Stefan K., to The Distillers Co. Ltd. Production of chlorprene. 3,026,360, 3–20–62, Cl. 260—655.

Lachs, Gerard: *See*—
Franco, George A., and Lachs. 3,036,157.

Lackie, Arthur H. Pendant wheel balancer. 3,045,497, 7–24–62, Cl. 73—486.

Lackinger, Frank P. Rollers in hollow legged furniture. 3,044,102, 7–17–62, Cl. 16—44.

Lackoff, Samuel K., to Van Norman Industries, Inc. Frequency standard signal generator. 3,046,491, 7–24–62, Cl. 331—52.

Lacks, Hyman, M. Quatinetz, and A. Freiberger. Method and apparatus for selection and comparison of the adhesion of ice to surfaces and coatings. 3,030,797, 4–24–62, Cl. 73—15.6.

La Cluyse, Camiel C.: *See*—
Tobolski, Alvin W., and La Cluyse. 3,046,588.

La Combe, Edward M., and B. Stewart, to Union Carbide Corp. Cycloalkenyl sulfones. 3,030,424, 4–17–62, Cl. 260—607.

La Combe, Edward M., and A. T. Walter, to Union Carbide Corp. Acrylonitrile- and vinyl chloride-containing polymers and fibrous articles thereof. 3,053,806, 9–11–62, Cl. 260—49.

Laconia Malleable Iron Co., Inc.: *See*—
Brisse, William C. 3,044,807.

La Costa, Nicholas J.: *See*—
Critcher, John L., La Costa, Sweeney, and Barr. 3,033,-116.

La Costa, Nicholas J., and P. L. Brown, to Aircraft Armaments, Inc. Environmental seal for cartridge. 3,051,086, 8–28–62, Cl. 102—39.

Lacoste, Roger G.: *See*—
Kluge, Herman D., Wisner, and Lacoste. 3,017,405.

La Cotonniere de Moislains: *See*—
Andremont, Gilbert. 3,016,681.

La Cotta, Andrew J. Dispensing apparatus. 3,032,081, 5–1–62, Cl. 141—362.

Lacount, Joseph F.: *See*—
Theiling, Louis F., Jr., and Lacount. 3,028,439.

La Croix, Lawrence D., Jr.: *See*—
Hamer, Martin, La Croix, and Tracy. 3,052,530.

Lacroix, Societe: *See*—
Bares, Roger J. M. 3,056,351.

La Crosse Trailer Corp.: *See*—
Duffy, Edward F. 3,027,030.

La Crosse Trust Co., The: *See*—
Trumble, Leslie A. 3,031,534.

Lacy, George H., and R. R. Chervenak, to The Dow Chemical Co. Laminate film and method for producing same using polyalkylene imine as a bonding agent. 3,033,707, 5–8–62, Cl. 117—76.

Lacy-Hulbert & Co. Ltd.: *See*—
Briscoe, George H. 3,047,212.

Lacy-Hulbert, Cyril. Quick heated electric heater. 3,067,311, 12–4–62, Cl. 219—20.

Lacy, Johnson W., and C. K. Brown, Jr., to Concrete Building Units Co., Inc. Blowdown tank and heat conserver. 3,026,043, 3–20–62, Cl. 237—67.

Lacy Mfg. Co.: *See*—
Lessing, John D., Atkinson, and Cadwell. 3,048,298.

Lacy, Vernon J. Snow removal device. 3,051,972, 9–4–62, Cl. 15—79.

Lacalo, Laszlo, to International Business Machines Corp. Signal rate of change detector and indicator. 3,045,183, 7–17–62, Cl. 324—118.

Ladany, Ivan, and R. J. Kearney, to United States of America, Navy. High Q tuned network utilizing biased double-base diode as inductive element. 3,042,884, 7–3–62, Cl. 333—76.

Ladbrooke, Neville C.: *See*—
Brown, Leonard, Barradell, and Ladbrooke. 3,058,325.

Ladd, Elbert C., to United States Rubber Co. N-(2-vinyl phenyl) maleimide. 3,053,851, 9–11–62, Cl. 260—326.5.

Ladd, Elbert C., to United States Rubber Co. N-(2-benzothiazylthio) maleimide. 3,066,146, 11–27–62, Cl. 260—306.6.

Ladd, Elbert C., and M. P. Harvey, to United States Rubber Co. Organo-phosphorus compounds and process of making same. 3,048,613, 8–7–62, Cl. 260—461.

Ladd, Frederick F., Jr., to Minneapolis-Honeywell Regulator Co. Electrical apparatus. 3,019,374, 1–30–62, Cl. 317—148.5.

Ladd, John M. Package for disposable paper tissues. 3,038,-473, 6–12–62, Cl. 128—268.

Ladd, Joseph M.: *See*—
Cowles, Warren H., and Ladd. 3,037,350.

Ladd, Joseph M., to Holley Carburetor Co. Bleed valve actuation. 3,016,702, 1–16–62, Cl. 60—39.29.

Ladd, Le Roy S.: *See*—
Carnall, Edward, Jr., Ladd, Cary, and Parsons. 3,033,-693.

Ladders, Inc.: *See*—
Scruby, Charles C. 3,070,188.

La Dean Mfg. Co.: *See*—
Laing, Lester M., and Dube. 3,035,715.

Ladell, Joshua, to North American Philips Co., Inc. X-ray spectograph. 3,046,399, 7–24–62, Cl. 250—51.5.

Ladenburger, Max, to Western Supplies Co. Fold apparatus and method. 3,024,019, 3–6–62, Cl. 270—61.

Ladenheim, Robert N., and A. Schwartz. Dental unit accessory. 3,063,568, 11–13–62, Cl. 211—77.

Lader, Leon J., and W. H. Proud, to Hughes Aircraft Co. Digital range tracking circuit. 3,035,263, 5–15–62, Cl. 343—7.3.

Ladewig, W. R., Co.: *See*—
Siegel, Martin J. 3,044,743.

Ladisch, Rolf K. Fiber-forming nozzle and method of making fibers. 3,017,664, 1–23–62, Cl. 18—2.5.

Ladish Co.: *See*—
Geary, Thomas A. 3,066,631.
Geary, Thomas A. 3,067,764.
Hinrichs, Ferdinand, and Geary. 3,034,443.
Polanski, Frank C. 3,021,584.
Polanski, Frank C. 3,022,692.

Lado, Anthony L., to Pettibone Mulliken Corp. Road scraper with driven leaning wheels. 3,016,636, 1–16–62, Cl. 37—156.

Ladue, Arthur M. Sawhorse brackets. 3,036,657, 5–29–62, Cl. 182—224.

La Due, George F. Car top protective cover. 3,021,894, 2–20–62, Cl. 160—23.

La Duke, Hazen F.: *See*—
Chapin, Everett E., and La Duke. 3,028,888.
Ladwig, Glen: *See*—
Oltion, John, and Ladwig. 3,044,650.
Ladymon, Albert, Co.: *See*—
Cole, Herman L. 3,042,396.
Ladymon, Toni: *See*—
Cole, Herman L. 3,042,396.
Laehder, Albert D., to W. R. Grace & Co. Urea prilling. 3,059,280, 10–23–62, Cl. 18—47.2.
Laemmle, David C.: *See*—
Bebry, Peter P., and Laemmle. 3,024,473.
Laemmle, George J., to Jefferson Chemical Co., Inc. Method of purifying monoaminoalkyl sulfuric acid esters. 3,037,-042, 5–29–62, Cl. 260—458.
Laerum, Joh. & Co.: *See*—
Laerum, Johan. 3,059,633.
Laerum, Johan; said J. Laerum, J. E. Mowinckel, and H. Bardsen, jointly, trading as Joh. Laerum & Co. Food ration kits for sports and military use. 3,059,633, 10–23–62, Cl. 126—262.
Laessker, Fritz, to The Gleason Works. Gear cutting machine with chamfering tool. 3,054,331, 9–18–62, Cl. 90—1.4.
Laete, Edward J., to Wade Electric Products Co. Switch. 3,029,320, 4–10–62, Cl. 200—16.
Laeufer, Walter, and B. Streu, to Fritz Hellige & Co. G.m.b.H. Continuously operable recording apparatus. 3,031,250, 4–24–62, Cl. 346—76.
La Fata, Peter A. Vehicle roof mounted speedometer. 3,045,-637, 7–24–62, Cl. 116—57.
La Fave, Ivan V.: *See*—
Horton, John T., and La Fave. 3,025,993.
Lafaye, Hilton J., to The Goodyear Tire & Rubber Co. Tractor-trailer brake combination. 3,034,598, 5–15–62, Cl. 188—3.
Lafaye, Hilton J., to The Goodyear Tire & Rubber Co. Valve inserting tool. 3,052,017, 9–4–62, Cl. 29—221.5.
Lafayette Brass Mfg. Co., Inc.: *See*—
Rosenkranz, Jules J. 3,030,030.
Rosenkranz, Jules J. 3,030,033.
Laferte, Albert A., to Draper Corp. Picker stick check. 3,052,267, 9–4–62, Cl. 139—161.
Laff, Robert M. Disinfectant composition. 3,017,278, 1–16–62, Cl. 106—13.
Laffert, Frederick W., Jr.: *See*—
Margolin, Stanley V., Bowen, Angeline, and Laffert. 3,062,629.
Lafferty, Gerald F., to Koppers Co., Inc. Process of manufacturing articles having outer foamed portions. 3,042,-972, 7–10–62, Cl. 18—48.
Lafferty, James M.: *See*—
Geiling, Gilbert H., and Lafferty. 3,049,639.
Lafferty, James M., to General Electric Co. Vacuum circuit interrupters. 3,016,436, 1–9–62, Cl. 200—144.
Lafian, John. Power hoe. 3,034,670, 5–15–62, Cl. 214—138.
Lafitte, George A. Dental mirror. 3,032,879, 5–8–62, Cl. 32—69.
La Fleur, Elphege D., to Norton Co. Lapping machine. 3,041,-792, 7–3–62, Cl. 51—154.
La Fleur, Hector. Book supporting device. 3,043,047, 7–10–62, Cl. 45—60.
La Fleur, Sidney O., to Pittsburgh Plate Glass Co. Tube extractor. 3,057,631, 10–9–62, Cl. 279—2.
La Fleur, Sidney O., to Pittsburgh Plate Glass Co. Canal dredge. 3,064,370, 11–20–62, Cl. 37—71.
La Flure, William R.: *See*—
Schless, Robert A., Jr. 3,023,910.
Lafon, Guy J.: *See*—
D'Autheville, Claude A. G., and Lafon. 3,063,596.
Lafon, Louis, to Societe Anonyme Orsymonde. Preparation of tilia alburnum therapeutically active extracts. 3,030,-271, 4–17–62, Cl. 167—65.
Lafon, Louis. Pharmaceutical composition comprising aspirin and sorbitol. 3,039,927, 6–19–62, Cl. 167—65.
La Force, Walter P., to Thomas Industries, Inc. Anti-friction blade and guide. 3,064,698, 11–20–62, Cl. 143—162.
La Forest, Louis Z., to McGraw-Edison Co. Dictating machines. 3,040,135, 6–19–62, Cl. 179—100.2.
La Forte, Michael J., to Vaughan Mfg. Co. Electric can opener. 3,057,059, 10–9–62, Cl. 30—4.
La Fountaine, Vera I.: *See*—
Ferrari, Ernest R. 3,048,207.
Laframboise, Guy R., to International Business Machines Corp. Record device. 3,015,424, 1–2–62, Cl. 225—93.
La France, Lionel J., to Daystrom, Inc. Electrical contact and method of making the same. 3,068,412, 12–11–62, Cl. 324—155.
Lafreniere, Floyd J.: *See*—
Herrick, Clifford E., Jr., Lafreniere, and Straw. 3,015,-562.
La Freniere, Lawrence J., and D. P. Durkee, to Continental Can Co., Inc. Folding paperboard carrier for bottles and the like. 3,056,527, 10–2–62, Cl. 220—113.
Lafuze, David L., to General Electric Co. Push-pull magnetic amplifier having transistor switches. 3,045,174, 7–17–62, Cl. 323—89.
Lagally, Paul, to Linden Laboratories, Inc. Orthotitanic compound used in method for improving wet strength of paper and resulting paper. 3,028,297, 4–3–62, Cl. 162—181.
Lagasse, Joseph L., and M. J. Malone, to Northern Electric Co., Ltd. Device for wrapping insulating tape around electromagnet cores. 3,017,313, 1–16–62, Cl. 156—446.
Lage, James R. Rotary fluid flow machine having rotor vanes constructed according to three dimensional calculations. 3,028,140, 4–3–62, Cl. 253—39.
Lagergren, Stig, to United States Gypsum Co. Packaging material and method for making same. 3,029,940, 4–17–62, Cl. 206—84.
Lagerstrom, Gosta B., to Pittsburgh Plate Glass Co. Process for the preparation of siliceous pigment. 3,034,913, 5–15–62, Cl. 106—306.
Lagerstrom, Gosta B., to Pittsburgh Plate Glass Co. Preparation of siliceous products. 3,034,914, 5–15–62, Cl. 106—306.
Lagier, Robert, to Societe Anonyme dite: l'Equipement Electrique et Antideflagrant. Vehicle ground connector. 3,038,-972, 6–12–62, Cl. 200—51.09.
Laginestra, Nicholas M. Garbage pail. 3,063,591, 11–13–62, Cl. 220—1.
Lagler, Karl R.: *See*—
Holoubek, Joseph B., and Lagler. 3,064,338.
Lagomarsino F.A.I.: *See*—
Rosati, Mario. 3,069,077.
Lagrost, Lucien, to Preparation Industrielle des Combustibles. Dense liquid media type separator. 3,019,900, 2–6–62, Cl. 209—172.
Lagsdin, Julius B., to American Cyanamid Co. Adjustable flexible guides for conveyors. 3,038,584, 6–12–62, Cl. 198—28.
Lagstrom, Yngve J., to General Motors Corp. Manual seat adjuster. 3,052,443, 9–4–62, Cl. 248—430.
Lagucki, Edward B.: *See*—
Culver, Frederick H., and Lagucki. 3,050,130.
Lagucki, Edward B., to Shell Oil Co. Tool carrier with by-pass. 3,052,302, 9–4–62, Cl. 166—153.
Lahde, Reinhard N., to Lockheed Aircraft Corp. Hydrofoil vehicle. 3,046,927, 7–31–62, Cl. 114—66.5.
Laher, Frank J. Device for holding golf bags. 3,042,443, 7–3–62, Cl. 296—3.
Lahr, Alvin F.: *See*—
Kainer, Jerome J., Lahr, and Havel. 3,066,392.
Lahr, Robert G. Toy cartridges and toy projectiles therefor. 3,067,680, 12–11–62, Cl. 102—38.
Lahti, Rudolph J., to Kwik Vent Corp. Handle attaching kit. 3,053,555, 9–11–62, Cl. 287—20.
Laich, Hermann. Pipe mounting. 3,065,004, 11–20–62, Cl. 287—20.
Laimins, Eric, to Baldwin-Lima-Hamilton Corp. Strain gage transducer circuit. 3,046,782, 7–31–62, Cl. 73—141.
Laimins, Eric, to Baldwin-Lima-Hamilton Corp. Fluid pressure electrical transducer. 3,046,788, 7–31–62, Cl. 73—398.
Laine, Edward J., to Allegheny Ludlum Steel Corp. Lifting tongs. 3,029,100, 4–10–62, Cl. 294—106.
Laine, Leslie H., and F. T. Hagedorn, to Libbey-Owens-Ford Glass Co. Glass bending mold with replaceable sections. 3,023,543, 3–6–62, Cl. 49—67.
Laing, Joseph D., and A. Nelkin, to the United States of America, Navy. Automatic frequency search and following receiver. 3,041,451, 6–26–62, Cl. 325—470.
Laing, Lester M., and M. T. Dube, to La Dean Mfg. Co. Position-changing apparatus for coils. 3,035,715, 5–22–62, Cl. 214—1.
Lair, Julien L. B., to International Telephone and Telegraph Corp. Automatic echo pulse recapture circuit. 3,040,312, 6–19–62, Cl. 343—7.3.
L'Air Liquide, Societe Anonyme Pour l'Etude et l'Exploitation des Procedes Georges Claude: *See*—
Arragon, Philippe. 3,027,764.
Arragon, Philippe. 3,060,737.
Grenier, Maurice. 3,056,268.
Grunberg, Jacques F., and Brunand. 3,066,492.
Schneider, Frederick, and Girouard. 3,045,110.
Laird, Robert: *See*—
Lessoff, Howard, Laird, and Childress. 3,043,777.
Laird, Stanley M., to Union Carbide Corp. Shaft seal. 3,039,-779, 6–19–62, Cl. 277—70.
Laird, William M., and M. R. J. Wyllie, to Gulf Research & Development Co. Reference electrode. 3,047,488, 7–31–62, Cl. 204—195.
Laithwaite, Eric H.: *See*—
Clements, Stephen G., and Laithwaite. 3,047,111.
Laithwaite, Eric R.: *See*—
Williams, Frederic C., Laithwaite, and Eastham. 3,040,-226.
Laitner Brush Co.: *See*—
Laitner, Robert F. 3,047,902.
Laitner, Robert F., to Laitner Brush Co. Fountain brush. 3,047,902, 8–7–62, Cl. 15—516.
La Kamafeaux, John P., and R. A. McCrary, to Dover Corp. Control device for a vehicle lift. 3,070,189, 12–25–62, Cl. 187—8.41.
Lakatos, Emory: *See*—
Pidhayny, Denny D., Lakatos, and Goodell. 3,052,882.
Lakatos, Emory, and E. M. Goodell, to Thompson Ramo Wooldridge Inc. Signal analyzing method and system. 3,045,-231, 7–17–62, Cl. 343—5.
Lakatos, Emory, J. E. Holland, and E. M. Polzin, to Thompson Ramo Wooldridge Inc. Wave communicating device. 3,047,822, 7–31–62, Cl. 333—31.
Lakatta, Edward, to Harris-Hogan Co. Sewing machine attachment. 3,017,846, 1–23–62, Cl. 112—114.
Lake, Connie. Shelving with sliding shelves. 3,016,150, 1–9–62, Cl. 211—143.

Lake, David B., to National Research Development Corp. Flowmeters. 3,050,997, 8–28–62, Cl. 73—.194.

Lake, Donald B.: *See*—
D'Addieco, Alfred A., Lake, and Stephanou. 3,041,139.

Lake, Donald B., and P. T. B. Shaffer, to E. I. du Pont de Nemours and Co. Bleaching compositions. 3,048,546, 8–7–62, Cl. 252—95.

Lake, Francis K., to Addressograph-Multigraph Corp. Ink gauges. 3,019,645, 2–6–62, Cl. 73—150.

Lake, Francis K., to Addressograph-Multigraph Corp. Printing machines. 3,019,727, 2–6–62, Cl. 101—148.

Lake, Irving Y., and F. H. Clymer, to Arthur G. Russell Co., Inc. Material conveying apparatus. 3,032,174, 5–1–62, Cl. 198—220.

Lake, Lelyn D., and A. J. Little, to P. R. Mallory & Co., Inc. Heavy duty vibrator. 3,029,325, 4–10–62, Cl. 200—90.

Lake, Oivin E., Jr., and E. C. Yeaton, to Eastman Kodak Co. Flaw detector for continuous web. 3,026,415, 3–20–62, Cl. 250—209.

Lake, Phyllis E.: *See*—
Casey, Edmund J., Lake, and Nagy. 3,068,310.

Lakeland Equipment Co., Inc.: *See*—
Stone, Oscar T. 3,036,865.
Stone, Oscar T. 3,043,456.

Lakeside Laboratories, Inc.: *See*—
Biel, John H. 3,030,366.
Biel, John H. 3,037,984.
Biel, John H. 3,040,050.
Biel, John H. 3,051,707.
Biel, John H. 3,051,710.
Biel, John H. 3,051,714.
Biel, John H. 3,051,722.
Biel, John H. 3,051,726.
Biel, John H., and Blicke. 3,051,715.
Krahnke, Harold C., and Becker. 3,033,754.
Perrigo, John F., and Rutherford. 3,043,220.

Lakeside Mfg., Inc.: *See*—
Moon, Herbert J. 3,034,843.

Lake Shore, Inc.: *See*—
Bevard, Roger L. 3,061,112.
Bevard, Roger L. 3,063,572.
Clark, James W. 3,052,367.
Clark, James W. 3,052,384.
Clark, James W. 3,061,128.

Lakewood Mfg. Co.: *See*—
Peplin, Stephen C. 3,016,161.
Peplin, Stephen C. 3,016,241.

Lakin, A., & Sons, Inc.: *See*—
Lakin, Lewis G. 3,054,163.

Lakin, Ira W.: *See*—
McFeaters, Harry L., and Lakin. 3,022,990.

Lakin, Lewis G., to A. Lakin & Sons, Inc. Roller. 3,054,163, 9–18–62, Cl. 29—125.

Lakin, Raymond W., and S. H. Griffiths, to A.E.I.-John Thompson Nuclear Energy Co. Ltd. Pressure vessels. 3,027,039, 3–27–62, Cl. 220—3.

Lakin, Willis M., to Marlin Toy Products, Inc. Action toy. 3,058,261, 10–16–62, 46—99.

Lakind, Joseph. Airplane runway with fire-fighting units. 3,063,502, 11–13–62, Cl. 169—2.

Lakins, Franklin D., and G. B. Lanphere, to Lipe-Rollway Corp. Adapter for bar working machine. 3,049,037, 8–14–62, Cl. 82—30.

Lakins, Franklin D., and G. B. Lanphere, to Lipe-Rollway Corp. Stock bar feed apparatus. 3,066,806, 12–4–62, Cl. 214—1.2.

Lakjer, Leo E., ½ to L. Marcus. Wide screen television apparatus. 3,051,779, 8–28–62, Cl. 178—6.8.

Lakso Co. Inc., The: *See*—
Lakso, Eino E. 3,061,990.
Lakso, Eino E. 3,066,460.
Lakso, Eino E. 3,068,623.
Lakso, Eino E., and Chandler. 3,031,556.
Moses, Walter J. 3,030,748.

Lakso, Eino E., to The Lakso Co., Inc. Rotary machine for counting and filling tablets. 3,061,990, 11–6–62, Cl. 53—237.

Lakso, Eino E., to The Lakso Co., Inc. Wadding containers with sheet material. 3,066,460, 12–4–62, Cl. 53—35.

Lakso, Eino E., to The Lakso Co. Inc. Rotary machine for counting and filling tablets. 3,068,623, 12–18–62, Cl. 53—52.

Lakso, Eino E., and A. S. Chandler, to The Lakso Co. Inc. Cotton drier for cottoning machines. 3,031,556, 4–24–62, Cl. 219—19.

Lal, Joginder, to The Goodyear Tire & Rubber Co. Copolymers of vinyl alkyl ethers and alkoxy-1,3-butadienes. 3,038,889, 6–12–62, Cl. 260—80.3.

Lal, Joginder, to The Goodyear Tire & Rubber Co. Vinyl alkyl ether polymers and copolymers. 3,062,789, 11–6–62, Cl. 260—80.3.

Lalandre, Andre, to Alladin Plastics, Inc. Chair comprising removable elements. 3,032,375, 5–1–62, Cl. 297—440.

Lalesse, Herman C., to North American Philips Co., Inc. Transducing device. 3,026,382, 3–20–62, Cl. 179—100.41.

Laliberte, Arthur L., to United Elastic Corp. Splicing of ribbon rubber thread. 3,029,180, 4–10–62, Cl. 156—502.

Lalick, Michael J. Artificial tree branch. 3,044,201, 7–17–62, Cl. 41—15.

L'Allemand, Charles C.: *See*—
Atwood, Rawson, and L'Allemand. 3,051,411.

Lallemand, Roger H., and R. P. Ragon, to Papeteries Mougeot. Means for providing an encircling cover strip around a pack of paper or the like. 3,057,134, 10–9–62, Cl. 53—124.

Lalli, Romeo A. Clamp. 3,042,987, 7–10–62, Cl. 24—263.

Lallouette, Pierre, to Societe d'Etudes et d'Applications Biochimiques (S.E.A.B.), Societe a Responsabilite Limitee dite: Method of isolating and purifying a protease from aspergillus. 3,036,960, 5–29–62, Cl. 195—66.

Lalmond, Harold W., and T. A. Nalette, to Sanders Associates, Inc. Method of making a flat flexible cable termination. 3,069,753, 12–25–62, Cl. 29—155.55.

La Londe, Fred J. Drums. 3,029,679, 4–17–62, Cl. 84—411.

La Londe, Fred J. Apparatus for reshrinking metal bell and frame rings to fit the bells and tubes of wind instruments such as clarinets. 3,068,930, 12–18–62, Cl. 153—48.

Lalonde, Guy J., to Precision Connectors, Inc. Printed circuit electrical connectors. 3,016,508, 1–9–62, Cl. 339—17.

Lalonde, Guy J. Electrical connectors. 3,059,213, 10–16–62, Cl. 339—176.

L'Aluminium Francais: *See*—
Dalmasso, Auguste. 3,068,314.

Lamade, Ralph M., Jr.: *See*—
Whitehouse, John B., Lamade, Di Maggio, and Hall. 3,043,069.

Lamal, James C. Observation slide. 3,031,924, 5–1–62, Cl. 88—40.

Laman, William F.: *See*—
Doyle, William M. 3,029,754.

La Manna, Richard: *See*—
Fleming, Howard M., Jr., Gardoff, La Manna, and Weinberg. 3,039,691.

La Manna, Richard J., to Monroe Calculating Machine Co. Binary integer divider. 3,018,047, 1–23–62, Cl. 235—165.

La Manna, Steve. Fluid checking device and control valve therefor. 3,033,323, 5–8–62, Cl. 188—97.

La Mantia, Norman E. Automatic automobile lighting system. 3,037,144, 5–29–62, Cl. 315—82.

Lamar, Heber C. Fishing lure. 3,020,667, 2–13–62, Cl. 43—35.

Lamar, William C. Combination glare shield and shade device. 3,042,445, 7–3–62, Cl. 296—97.

La Marre, Roger R.: *See*—
Bacher, Hans E., and La Marre. 3,044,163.
Bacher, Hans E., and La Marre. 3,055,682.

Lamason, William H.: *See*—
Craver, Augustus E., and Lamason. 3,044,115.

Lamaster, Donald M., to Westinghouse Electric Corp. Electrical control apparatus for generators. 3,027,509, 3–27–62, Cl. 322—25.

Lamaudiere, Paul F. J. Combined windshield wiper and washer switch mechanism. 3,015,119, 1–2–62, Cl. 15—250.02.

Lamaudiere, Paul F. J. Plug sockets. 3,023,392, 2–27–62, Cl. 339—33.

Lamb, Charles A.: *See*—
Voigtman, Edward H., Donnelly, and Lamb. 3,017,317.

Lamb, Clyde C. Cooking appliance. 3,064,554, 11–20–62, Cl. 99—337.

Lamb, Douglas J., and W. H. Hills, to Monsanto Chemical Co. Traverse control mechanism. 3,042,326, 7–3–62, Cl. 242—26.3.

Lamb, F. Joseph, Co.: *See*—
Graham, James T., and Kay. 3,043,417.
Kay, John G. 3,034,626.
Kay, John G., and Graham. 3,032,160.
Opperthauser, Orval A. 3,062,353.

Lamb, Frank: *See*—
Critchley, Stuart W., and Lamb. 3,048,545.

Lamb, Frank G. Upright refrigerator showcase. 3,063,252, 11–13–62, Cl. 62—234.

Lamb, Frank G. Upright refrigerator showcase. 3,063,256, 11–13–62, Cl. 62—256.

Lamb, Franklin: *See*—
Gray, Robert A., Lamb, and Mandel. 3,048,878.

Lamb, George E., to Lamb-Grays Harbor Co., Inc. Convex upper platen for a pulp press. 3,063,363, 11–13–62, Cl. 100—295.

Lamb, George E., and W. E. Otto, to Lamb-Grays Harbor Co., Inc. Bale stacker. 3,035,716, 5–22–62, Cl. 214—6.

Lamb-Grays Harbor Co., Inc.: *See*—
Dale, Ingvald. 3,032,319.
Dale, Ingvald, and Lewis. 3,055,514.
Dale, Ingvald, and Mead. 3,025,057
Gustafson, George W., and Langfeldt. 3,063,408.
Lamb, George E. 3,063,363.
Lamb, George E., and Otto. 3,035,716.
Mead, Gile A. 3,022,999.
Mead, Gile A. 3,032,209.
Mead, Gile A. 3,055,516.

Lamb, Harold W., to Crossley Machine Co., Inc. Hot liquid metal pumps. 3,058,432, 10–16–62, Cl. 103—235.

Lamb, Jefferson P., to Dresser Industries, Inc. Electrical logging stystem with means for rectifying phase displaced components of a composite field. 3,069,619, 12–18–62, Cl. 324—1.

Lamb, Joe H., to P. A. Mallinckrodt. Extendible and retractable cover apparatus for swimming pools. 3,050,743, 8–28–62, Cl. 4—172.

Lamb, Joe H., to P. A. Mallinckrodt. Retractable cover assembly and draw cord carrier therefor. 3,051,232, 8–28–62, Cl. 160—272.

Lamb, Joe H., to P. A. Mallinckrodt. Swimming pool cover and method of installing same. 3,060,455, 10–30–62, Cl. 4—172.
Lamb, John M., and M. Zanichkowsky. Wave guide with liquid-cooled high-power matched load. 3,030,592, 4–17–62, Cl. 333—22.
Lamb, Leslie. Float valve. 3,040,769, 6–26–62, Cl. 137—420.
Lamb, Raymond J. Apparatus for conditioning materials. 3,067,013, 12–4–62, Cl. 23—252.
Lamb Rental Tools, Inc.: *See*—
Wallace, Elmer M. 3,023,651.
Lamb, Thomas W.: *See*—
Vogel, Charles B., and Lamb. 3,062,314.
Vogel, Charles B., and Lamb. 3,063,035.
Lamb, William C.: *See*—
George, Albert L., and Lamb. 3,043,619.
Lambe, Donald M. Deflation-proof tires. 3,022,810, 2–27–62, Cl. 152—157.
Lambeck, Raymond P.: *See*—
Pedersen, Nicholas F., and Lambeck. 3,056,358.
Sullivan, Richard N., and Lambeck. 3,034,451.
Lambeck, Raymond P., to United Aircraft Corp. Pump torque limiting means. 3,051,092, 8–28–62, Cl. 103—161.
Lambeck, Raymond P., to United Aircraft Corp. Axial piston pump with balanced drive plate. 3,053,197, 9–11–62, Cl. 103—162.
Lambeck, Raymond P., to United Aircraft Corp. Control means for variable delivery pump. 3,067,693, 12–11–62, Cl. 103—161.
Lambers, Marvin. Manually manipulated surface cleaning device. 3,049,745, 8–21–62, Cl. 15—554.
Lamberson, Nathaniel D., to Ideal Mfg. Co. Claw assembly for milking machines. 3,029,787, 4–17–62, Cl. 119—14.54.
Lambert, Agard L. Infra-red gas-fueled heater. 3,040,805, 6–26–62, Cl. 158—114.
Lambert Brake Corp.: *See*—
Kershner, Osborn A. 3,048,250.
Kershner, Osborn A. 3,050,344.
Kershner, Osborn A., and Olds. 3,028,906.
Parrett, Dent. 3,044,434.
Zindler, Roger R. 3,053,345.
Lambert, Chandley W. Vacuum clothes dryer. 3,030,712, 4–24–62, Cl. 34—92.
Lambert, Donald P.: *See*—
Hewitt, Maurice C. P., and Lambert. 3,031,138.
Lambert, Douglas W., to Truscon Steel Co. of Canada Ltd. (subsidiary of Dominion Steel and Coal Corp., Ltd.) Split window construction. 3,060,527, 10–30–62, Cl. 20—53.
Lambert, Frank A. Baby exercising device. 3,019,053, 1–30–62, Cl. 297—275.
Lambert, Harry L., to Royal McBee Corp. Type action. 3,021,936, 2–20–62, Cl. 197—17.
Lambert, Harry L., and P. F. Page, to Royal McBee Corp. Proportional spacing mechanism. 3,018,870, 1–30–62, Cl. 197—84.
Lambert, Harry L., and P. F. Page, to Royal McBee Corp. Banking and escapement apparatus for electric typewriters or the like. 3,045,798, 7–24–62, Cl. 197—84.
Lambert, Herbert, and W. L. Giffin, to The Elgee Products Co., Inc. Portable dairyman's indicator. 3,032,003, 5–1–62, Cl. 116—133.
Lambert, James E., and I. O. Lewis, to Imperial Chemical Industries Ltd. Production of blasting charges for use in substantially vertical boreholes and apparatus for use therein. 3,068,791, 12–18–62, Cl. 102—23.
Lambert, Max S. Skirtboard and sealer for conveyor systems. 3,024,893, 3–13–62, Cl. 198—204.
Lambert, Merlan M.: *See*—
Cull, Neville L., Lambert, Carr, and Berkeley. 3,050,569.
Hunter, Edward A., Lambert, Segura, and Small. 3,046,-244.
Lambert, Richard J., to Minnesota Mining and Mfg. Co. Non-woven pressure-sensitive shoe tapes. 3,015,597, 1–2–62, Cl. 154—53.5.
Lambert, Robert D., to Changewood Corp. Mechanism for feeding fibrous elements. 3,067,855, 12–11–62, Cl. 198—76.
Lambert, Robert L., and W. R. McKeirnan, to Sylvania Electric Products Inc. Formulation for casting pigmented film. 3,017,281, 1–16–62, Cl. 106—185.
Lambert, Robert L., and W. R. McKeirnan, to Sylvania Electric Products Inc. Process of casting film employing 2-(2-aminoethylamine) ethanol as a release agent. 3,017,284, 1–16–62, Cl. 117—5.1.
Lamberty, Bernard J., to Sylvania Electric Products Inc. Broadband plate antenna. 3,050,730, 8–21–62, Cl. 343—843.
Lambeth, Dennis E.: *See*—
Harlen, Frank, O'Sullivan, Lambeth, and Thomas. 3,031,573.
Lambeth, George F., to Dorr-Oliver Inc. Combination sewage clarifier thickener. 3,036,713, 5–29–62, Cl. 210—197.
Lambrech, Joseph A.: *See*—
Torgeson, Dewayne C., Marcus, and Lambrech. 3,055,801.
Lambrix, Maurice A., to All-Matic Corp. Arch filing device. 3,070,097, 12–25–62, Cl. 129—10.
Lambuth, Alan L., to Monsanto Chemical Co. Aqueous alkaline adhesive comprising phenol-formaldehyde condensate and polyethylene glycol. 3,025,255, 3–13–62, Cl. 260—29.3.
Lamellen-und Kupplungsbau August Haussermann: *See*—
Häussermann, Kurt, Maucher, and Stallbaumer. 3,016,120.
Lamelson, Jerome H. Noisemaking toys. 3,029,555, 4–17–62, Cl. 46—187.
Lamesch, Armand, to Compagnie de Saint-Gobain. Runner. 3,068,618, 12–18–62, Cl. 51—209.
Lamin, Leonard, and V. J. Habisohn, to International Telephone and Telegraph Corp. Electronic line circuit for code signaling system. 3,056,856, 10–2–62, Cl. 178—69.
Lamin, Leonard, and J. Karklys, to International Telephone and Telegraph Corp. Automatic teletypewriter transmitter. 3,059,048, 10–16–62, Cl. 178—3.
Lamin, Leonard, and M. Ribner, to International Telephone and Telegraph Corp. Electrical identification circuit. 3,060,271, 10–23–62, Cl. 179—18.
Lamm, Heinz: *See*—
Göschel, Karl-Heinz R., and Lamm. 3,020,905.
Lamm, William E.: *See*—
Fanick, Ed A., Jr., and Lamm. 3,063,255.
Lammerman, Frank N.: *See*—
Byrne, Joseph, McDowell, and Lammerman. 3,027,244.
Lamming, Jack S., to The General Electric Co. Ltd. Production of semi-conductor bodies. 3,029,170, 4–10–62, Cl. 148—1.5.
Lammle, Georg, H. Loewe, and G. Ross, to Farbwerke Hoechst Aktiengeschaft vormals Meister Lucius & Bruning. Method and compositions for treating liver flukes. 3,029,-186, 4–10–62, Cl. 167—55.
Lamont, John, to Western Electric Co., Inc. Photoelectric device. 3,018,377, 1–23–62, Cl. 250—222.
Lamoreaux, William G., to International Business Machines Corp. Magnetic core testing device. 3,068,380, 12–11–62, Cl. 317—149.
Lamort de Gail, Marc, and R. M. F. Chagrin de Saint-Hilaire. Treatment of materials in liquid suspension such as paper pulp. 3,018,060, 1–23–62, Cl. 241—74.
La Motte, Holladay. Tobacco stalk holder. 3,033,603, 5–8–62, Cl. 294—5.5.
Lamoureux, Roland. Safety means for nail guns. 3,032,768, 5–8–62, Cl. 1—106.
Lamp, Arthur W., and C. R. Meckstroth, to General Electric Co. Lamp transfer and inverting apparatus. 3,047,166, 7–31–62, Cl. 214—1.
Lamp, James K., Jr., to Whirlpool Corp. Gas burner. 3,027,-936, 4–3–62, Cl. 158—105.
Lamparter, Hansruedi, to Actiengesellschaft Joh. Jacob Rieter & Cie. Method for measuring the volume or the weight of bodies having different size and irregularly passing through a channel or accumulations of such bodies, particularly of fibre tufts. 3,028,501, 4–3–62, Cl. 250—218.
Lampe, Robert C.: *See*—
Allen, Oliver L., Ferraris, and Lampe. 3,046,586.
Lamphere, Jean K.: *See*—
Kammerer, Archer W., Jr. 3,050,142.
Kammerer, Archer W., A. W. Kammerer, Jr., and Lamphere. 3,050,143.
Lampkin, John R. Seed planter attachment. 3,026,829, 3–27–62, Cl. 111—85.
Lampkowitz, Paul. Wearing apparel with adjustable seams. 3,040,331, 6–26–62, Cl. 2—243.
Lamprecht, Richard P., to Wayne Home Equipment Co., Inc. Height adjusting mechanism for self-propelled wheel supported tool. 3,040,830, 6–26–62, Cl. 180—19.
Lampret, Josef. Curtain mountings. 3,022,819, 2–27–62, Cl. 160—345.
Lamprey, Headlee: *See*—
Culbertson, James B., Lamprey, and Ripley. 3,062,638.
Lamson Corp.: *See*—
Hennessy, Carroll A. 3,054,576.
Lamson, Junior C.: *See*—
Roberts, Carleton W., Haigh, Hall, and Lamson. 3,029,217.
Lamson & Sessions Co., The: *See*—
Anderson, Edward A. 3,030,834.
Davis, Frank B., and Barkocy. 3,022,526.
Waltermire, William G. 3,047,036.
Lamtex Industries, Inc.: *See*—
Ponemon, Warren E. 3,025,201.
Lamy, Armand, 50% to U. Boisvert. Disintegrating and feeding means for snow blowers. 3,041,749, 7–3–62, Cl. 37—43.
Lancashire Dynamo Electronic Products Ltd.: *See*—
Robinson, Kenneth A. 3,047,792.
Robinson, Kenneth A., and Woodward. 3,046,468.
Robinson, Kenneth A., Woodward, and Howard. 3,032,-668.
Lancaster, Earl B., to United States of America, Agriculture. Preparation of hydroxyethylated flours. 3,031,319, 4–24–62, Cl. 106—150.
Lancaster, John K., D. C. Milner, and W. Hirst, to The British Thomson-Houston Co. Ltd. Surface heating of metals. 3,027,449, 3–27–62, Cl. 219—121.
Lancaster, John T. Whipping top. 3,044,212, 7–17–62, Cl. 46—67.
Lancaster, Robert A., to Western Electric Co., Inc. Article storage and dispensing apparatus. 3,018,020, 1–23–62, Cl. 221—10.
Lancaster, Robert A., to Western Electric Co., Inc. Apparatus for uncrimping ferruled end portion of articles. 3,034,-562, 5–15–62, Cl. 153—32.
Lancerini, Sylvio. Automatic profilograph. 3,026,164, 3–20–62, Cl. 346—8.
Lancia, Angelo N. Fire extinguishing device. 3,055,436, 9–25–62, Cl. 169—31.

Lanciani, Daniel A., and A. A. Blaisdell, to Microwave Associates, Inc. Circular waveguide diameter transformer. 3,019,399, 1–30–62, Cl. 333—34.
Lancor, Joseph H., and C. E. Berry, to Consolidated Electrodynamics Corp. Frequency band separation in translating apparatus. 3,061,684, 10–30–62, Cl. 179—15.5.
Lanctot, Donald H., to Don-Lan Electronics, Inc. Double throw co-axial switch. 3,019,322, 1–30–62, Cl. 200—153.
Lanctot, Donald H., to Don-Lan Electronics, Inc. Step attenuator. 3,019,402, 1–30–62, Cl. 333—81
Lanctot, Donald H., to Don-Lan Electronics, Inc. Microwave attenuator. 3,022,474, 2–20–62, Cl. 333—81.
Lanctot, Donald H., to Don-Lan Electronics, Inc. Co-axial switch. 3,036,282, 5–22–62, Cl. 333—97.
Lanctot, Robert S.: *See*—
Gamble, Richard F., and Lanctot. 3,016,706.
Lanctot, Robert S., to United Aircraft Corp. Balanced flapper valve. 3,023,763, 3–6–62, Cl. 137—85.
Land, Edwin H., to Polaroid Corp. Photographic processes. 3,030,207, 4–17–62, Cl. 96—29.
Land, Edwin H., to Polaroid Corp. Color formation. 3,034,890, 5–15–62, Cl. 96—3.
Land, Edwin H., to Polaroid Corp. Photographic processes, products and devices. 3,047,387, 7–31–62, Cl. 96—48.
Land, Edwin H., to Polaroid Corp. Photographic film unit with processing container. 3,053,659, 9–11–62, Cl. 96—75.
Land, Edwin H., to Polaroid Corp. Process and product for distributing photographic material by capillary action. 3,069,266, 12–18–62, Cl. 96—48.
Land, Edwin H., D. S. Grey, and O. E. Wolff, to Polaroid Corp. Apparatus for manufacturing photographic films. 3,052,008, 5–1–62, Cl. 118—411.
Land, Edwin H., and D. S. Grey, to Polaroid Corp. Exposure control mechanism. 3,056,342, 10–2–62, Cl. 95—59.
Land Tool Co.: *See*—
Balsiger, Harold E. 3,040,486.
Landa, Arthur J.: *See*—
Catlin, Robert T., and Landa. 3,067,454.
Landau, Henry J., to Bell Telephone Laboratories, Inc. Signal recovery circuits. 3,022,473, 2–20–62, Cl. 333—28.
Landau, Leo: *See*—
Mills, Francis J., and Landau. 3,051,236.
Landau, Manfred, K. H. Todhunter, and T. Kennaway, to Simon-Carves Ltd. Purification of fuel gases. 3,061,421, 10–30–62, Cl. 48—197.
Landauer, Franz: *See*—
Berthner, Ludwig, Herzberg, and Landauer. 3,022,276.
Landauer, Rolf W., to International Business Machines Corp. Standing wave parametric amplifiers. 3,016,492, 1–9–62, Cl. 330—5.
Landauer, Rolf W., to International Business Machines Corp. Temperature stabilized non-linear reactance elements and circuits. 3,065,402, 11–20–62, Cl. 323—69.
Landbouwwerktuigen-en Machinefabriek H. Vissers N.V.: *See*—
Vissers, Bastiaan. 3,046,025.
Vissers, Herbert. 3,059,935.
Landbrecht, Franz, to Agfa Aktiengesellschaft. Single lens reflex camera. 3,020,815, 2–13–62, Cl. 95—42.
Landbruksteknisk Institutt: *See*—
Todnem, Odd. 3,016,737.
Lande, Bernard Z., to Lande Mfg. Co., Inc. Convertible bed. 3,069,699, 12–25–62, Cl. 5—59.
Lande, Irving W. Skin diving harness construction. 3,065,888, 11–27–62, Cl. 224—5.
Lande Mfg. Co., Inc.: *See*—
Lande Bernard Z. 3,069,699.
Lande, Morris M. Apparatus for making and storing a frozen confection. 3,020,728, 2–13–62, Cl. 62—199.
Lande, Morris M. Ice cream freezing apparatus. 3,029,613, 4–17–62, Cl. 62—303.
Landee, Robert W., and B. Cutler, to Gilfillan Bros., Inc. Method of and apparatus for identifying aircraft during ground controlled approach. 3,017,628, 1–16–62, Cl. 343—5.
Landell, Keith D., and R. L. Lineker. Brake shoe key. 3,015,372, 1–2–62, Cl. 188—243.
Landenberger, Eugen, to W. Anderes. Bellows air pump. 3,066,853, 12–4–62, Cl. 230—160.
Lander, Arthur M. Sink. 3,028,605, 4–10–62, Cl. 4—187.
Lander, Fred, M. Lattmann, and R. Oberacker; said Lattmann and Oberacker assors. to said Lander. Device for the optical copying of photographic negatives. 3,020,801, 2–13–62, Cl. 88—24.
Lander, James J.: *See*—
Dewald, Jacob F., and Lander. 3,017,548.
Lander, Richard J., to General Motors Corp. Panel wiring assemblies. 3,055,971, 9–25–62, Cl. 174—72.
Landers, Frary & Clark: *See*—
Clark, Jesse K. 3,037,107.
Day, William M. 3,040,649.
Fortnam, George A. 3,064,362.
Kircher, Paul J. 3,035,144.
Landers, Leo A.: *See*—
Moore, Sewell T., and Landers. 3,033,743.
Landes, Alfred, to Minitone Electronics, Inc. Vibrated knife. 3,052,981, 9–11–62, Cl. 30—272.
Landes, John T. Grain bin test probe. 3,065,637, 11–27–62, Cl. 73—425.2.
Landfried, Bert W., and R. J. Tenney, to C. J. Patterson Co. Plastic gels of water and acyl lactylic acids and their salts. 3,033,686, 5–8–62, Cl. 99—91.
Landgraf, David C. Grass root planter. 3,026,001, 3–20–62, Cl. 221—42.
Landgraf, Richard P.: *See*—
Landgraf, Walter D., and R. P. 3,044,728.
Landgraf, Walter D. Universal typewriter spool. 3,045,800, 7–24–62, Cl. 197—151.
Landgraf, Walter D., and R. P. Plastic insert for carbon ribbon. 3,044,728, 7–17–62, Cl. 242—68.5.
Landgren, Clarence R.: *See*—
Hirth, Leo J., Spielman, and Landgren. 3,069,480.
Landig, Earl F. Wheel chair attachment. 3,063,736, 11–13–62, Cl. 280—289.
Landis, Donald E.: *See*—
Cattorini, Joseph F., and Landis. 3,067,998.
Landis, Frank S., to Bayuk Cigars Inc. Baling device. 3,046,873, 7–31–62, Cl. 100—215.
Landis, George G., J. M. Parks, and J. E. Forss, to The Lincoln Electric Co. Metal cutting by means of electric arc. 3,053,966, 9–11–62, Cl. 219—69.
Landis & Gyr A.G.: *See*—
Grosjean, Kurt. 3,019,985.
Hurlimann, Hans, and Hauri. 3,067,405.
Pudelko, Richard. 3,020,116.
Pudelko, Richard, Huber, and Kilchmann. 3,043,501.
Schmid, Hans, and Hauri. 3,025,496.
Sun, Sua F. 3,024,997.
Sun, Sua F. 3,024,998.
Sun, Sua F. 3,058,069.
Landis Machine Co.: *See*—
Berkey, Harry L., Billow, and Beckner. 3,060,467.
Landis, Peter H. Alarm apparatus for gas testing, particularly carbon monoxide. 3,027,552, 3–27–62, Cl. 340—237.
Landis, Phillip S.: *See*—
Hamilton, Lyle A., and Landis. 3,040,057.
Landis, Robert B., Sr. Rod and reel carrying case. 3,033,259, 5–8–62, Cl. 150—52.
Landis, Robert L. Sealing gasket. 3,023,466, 3–6–62, Cl. 20—69.
Landis, Robert L. Sealing gaskets. 3,037,251, 6–5–62, Cl. 20—69.
Landis Tool Co.: *See*—
Balsiger, Harold E. 3,039,240.
Balsiger, Harold E. 3,046,967.
Balsiger, Harold E. 3,067,732.
Jones, Alvin J. 3,017,875.
Mouer, Earl W. 3,054,228.
Newconer, Harold F. 3,059,155.
Price, Ralph E. 3,019,562.
Price, Ralph E. 3,019,566.
Price, Ralph E. 3,046,706.
Price, Ralph E. 3,047,988.
Price, Ralph E. 3,054,227.
Price, Ralph E. 3,064,395.
Schafrank, Erich. 3,040,482.
Snyder, Glenn M. 3,031,805.
Snyder, Glenn M., and Flohr. 3,036,411.
Stebler, Alfred, and Unser. 3,067,350.
Landkroon, John G.: *See*—
Kramer, Lloyd B., Kasberg and Landkrohn. 3,018,357.
Landler, Yvan, and P. H. Lebel, to Societe Polyplastic. Method of preparing solutions of polymers in solvents in which they are difficulty soluble. 3,037,948, 6–5–62, Cl. 260—4.
Landman, Wendell A., and O. F. Batzer, to R. Brown, F. J. Madden, J. Sheldon, A. W. Brickman, and J. E. Thompson, trustees for the Benefit of American Meat Institute Foundation. Method and composition for producing meaty flavor in foods and food products. 3,047,399, 7–31–62, Cl. 99—110.
Landon, Donald O., to Spex Industries, Inc. Spectroscopic computer. 3,041,920, 7–3–62, Cl. 88—14.
Landon, Ira T.: *See*—
Matter, Robert C., and Landon. 3,035,339.
Landrum, Billy F.: *See*—
Davis, Horace R., Erredе, and Landrum. 3,053,909.
Davis, Horace R., Erredе, and Landrum. 3,055,931.
Erredе, Louis A., Landrum, and Davis. 3,032,541.
Herbst, Ralph L., and Landrum. 3,024,224.
Landrum, Billy F., and C. Sandberg, to Minnesota Mining and Mfg. Co. Copolymers of 1,1-dihydroperfluoroalkene-1 and process for preparation thereof. 3,043,815, 7–10–62, Cl. 260—87.5.
Landrum, Porter. Carburetor for internal combustion engines. 3,047,277, 7–31–62, Cl. 261—65.
Landrum, Porter. Coupling. 3,050,965, 8–28–62, Cl. 64—29.
Landry, Everett A. Refrigeration coil for premix fountain. 3,067,870, 12–25–62, Cl. 62—390.
Landry, Gaetan G. Ski fitting. 3,023,017, 2–27–62, Cl. 280—11.35.
Landry, Jacobus M. Rotating sprinkler. 3,070,315, 12–25–62, Cl. 239—232.
Landry, John V., to Pastushin Aviation Corp. Means for releasably mounting a store on an aircraft. 3,016,258, 1–9–62, Cl. 294—83.
Landry, William J., to J. C. Hockery, trustee for H. J. and F. L. Talge. Right and left-hand can opener. 3,059,333, 10–23–62, Cl. 30—7.
Landsberg, Meyer I., A. L. Lastnik, and J. L. Lewis, to United States of America, Army. Camouflage covering for protection against nuclear explosion. 3,059,364, 10–23–62, Cl. 41—10.

Landsberger, Bernard and H. Infant's blanket. 3,034,132, 5–15–62, Cl. 2—69.5.
Landsberger, Halina : *See*—
Landsberger, Bernard, and H. 3,034,132.
Landschulze, Ernst A., to Rheinstahl Hamburg Stahlbau Eggers & Friedrich Kehrhahn G.m.b.H. Moving stairways, escalators and the like. 3,017,963, 1–23–62, Cl. 188—82.34.
Landskroener, Peter A. : *See*—
Alfaya, Raymond, Landskroener, and Thaxton. 3,047,221.
Landsverk, Aktiebolaget : *See*—
Andersson, Nils V. 3,056,505.
Landsverk Electrometer Co. : *See*—
Landsverk, Ole G., and Glodenis. 3,017,511.
Landsverk, Ole G., Glodenis, and Merriner. 3,047,748.
Landsverk, Ole G., and Z. Glodenis, to Landsverk Electrometer Co. Friction charger and dosimeter employing the same. 3,017,511, 1–16–62, Cl. 250—83.3.
Landsverk, Ole G., Z. Glodenis, and D. L. Merriner, to Landsverk Electrometer Co. Friction chargers. 3,047,748, 7–31–62, Cl. 310—7.
Landwer, Robert G. Illuminated liquid gauge. 3,054,291, 9–18–62, Cl. 73—293.
Lane, Anthony F. Medical dressings and catamenial devices. 3,024,788, 3–13–62, Cl. 128—285.
Lane, Constance A. : *See*—
O'Brien, Joseph L., and Lane. 3,030,347.
O'Brien, Joseph L., and Lane. 3,042,686.
Lane Construction Corp., The : *See*—
Widelo, John S. 3,058,404.
Lane Container Co. : *See*—
Acker, Ralph E. 3,040,880.
Lane, Dan R. 3,050,228.
Lane, Dan R., to Lane Container Co. Reinforcing insert for a container. 3,050,228, 8–21–62, Cl. 229—15.
Lane, Harold A. : *See*—
Thiel, Otto, and Lane. 3,039,236.
Lane, Harry L. Cleaning bath and method of cleaning moving metal strip. 3,027,310, 3–27–62, Cl. 204—145.
Lane, John J. : *See*—
Kemp, Woodrow E., and Lane. 3,027,342.
Lane, Kenneth L. : *See*—
Bowen, Robert C. 3,023,603.
Lane, Montie J. Stripper collar for flaring mandrels. 3,059,689, 10–23–62, Cl. 153—80.5.
Lane, Morris M. : *See*—
Brown, Raymond W., and Lane. 3,064,705.
Lane, Norman R. : *See*—
Buckingham, William D., Lane, Ridge, and Turner. 3,056,034.
Lane, Robert : *See*—
Hammond, Eric T., Watson, Cole, and Lane. 3,035,397.
Lane, Robert C. : *See*—
Thompson, Gene D., Hough, and Lane. 3,070,545.
Lane, Robert F., to United Shoe Machinery Corp. Outsole trimming machines. 3,028,613, 4–10–62, Cl. 12—16.5.
Lane, Robert F., to United Shoe Machinery Corp. Outsole trimming machines. 3,069,706, 12–25–62, Cl. 12—16.5.
Lane, Trent. Liquid weigh cell. 3,050,145, 8–21–62, Cl. 177—210.
Lane, Walter P., and M. B. Kinser. Means for collecting vegetation in roll form. 3,057,139, 10–9–62, Cl. 56—8.
Lane-Wells Co. : *See*—
Porter, Forrest V., and Surbatovich. 3,043,379.
Lane-Wells Co., a Division of Dresser Industries, Inc. : *See*—
Thomas, Thomas M., Jr. 3,061,013.
Lane, William H. : *See*—
Kreekon, Nicholas, and Lane. 3,015,756.
Kreekon, Nicholas, Lane, and Kotowski. 3,052,820.
Lanford, Milton N. : *See*—
Azelickis, Alexis, Lanford, and Osborn. 3,024,423.
Lang, Albert P., to Armour Research Foundation of Illinois Institute of Technology. Magnetic recording apparatus. 3,029,080, 4–10–62, Cl. 274—17.
Lang, Albert P., to Armour Research Foundation of Illinois Institute of Technology. Recording apparatus. 3,053,540, 9–11–62, Cl. 274—4.
Lang, Alphonse G., Jr., and B. S. Liss, to General Precision, Inc. Sealed rotation transmission coupling. 3,049,931, 8–21–62, Cl. 74—17.8.
Lang, Anton, A. Glehr, and K. Haage, to Delmag Maschinenfabrik Reinhold Dornfeld. Diesel hammer for pile drivers. 3,027,883, 4–3–62, Cl. 123—7.
Lang, Anton G. : *See*—
Stefan, Russell O., and Lang. 3,044,360.
Lang, Arthur L. Bar framing for wire mesh panels. 3,057,446, 10–9–62, Cl. 189—84.
Lang, Charles W., and V. V. Roberti, to General Precision, Inc. Variably coupled rotary transformer with compensating circuits. 3,044,009, 7–10–62, Cl. 323—53.
Lang, Elliot R., to Minneapolis-Honeywell Regulator Co. Electrical measuring apparatus. 3,064,247, 11–13–62, Cl. 340—347.
Lang, Elliot R., and N. Yashin, to Minneapolis-Honeywell Regulator Co. Electrical apparatus. 3,029,369, 4–10–62, Cl. 317—150.
Lang, Ernest U., to National-Standard Co. Festoon control system for haul-off apparatus. 3,049,308, 8–14–62, Cl. 242—45.
Lang, Ernest U., to National-Standard Co. Tire construction. 3,052,274, 9–4–62, Cl. 152—354.
Lang, Ernest U., to National-Standard Co. Bead building apparatus. 3,061,236, 10–30–62, Cl. 242—158.4.
Lang, John L. : *See*—
Montgomery, Robert S., and Lang. 3,061,900.
Schweitzer, William K., Jr., Lee, Jones, and Lang. 3,035,033.
Lang, John L., to The Dow Chemical Co. Polyamide resins. 3,047,542, 7–31–62, Cl. 260—78.
Lang, John L., to The Dow Chemical Co. Resinous reaction products of alkylene glycol esters of acrylic or methacrylic acid and a sulfur chloride. 3,054,780, 9–18–62, Cl. 260—79.
Lang, John L., to The Dow Chemical Co. Resinous reaction products of polyunsaturated allyl esters of organic carboxylic acids and a sulfur chloride. 3,055,872, 9–25–62, Cl. 260—78.4.
Lang, Joseph C., to Bocjl Corp. Pneumatic fastener driving and like tool. 3,038,161, 6–12–62, Cl. 1—52.
Lang, Karl F., W. Metzendorf, J. Turowski, and H. Gick, to Rutgerswerke-Aktiengesellschaft. Process of treating coal tar impregnated wood with a solution of a compound of boron trifluoride. 3,023,125, 2–27–62, Cl. 117—62.
Lang, Karl F., W. Metzendorf, J. Turowski, and H. Gick, to Rutgerswerke-Aktiengesellschaft. Process of desulfurizing crystallizable aromatic hydrocarbons. 3,023,255, 2–27–62, Cl. 260—674.
Lang, Konrad, to Farbenfabriken Bayer Aktiengesellschaft. Production of alkyl thioboric acid esters. 3,067,234, 12–4–62, Cl. 260—462.
Lang, Konrad, and F. Schubert, to Bayer Aktiengesellschaft Farbenfabriken. Process for the production of amine boranes 3,037,985, 6–5–62, Cl. 260—290.
Lang, Konrad, L. Burger, E. M. Horn, and K. Nützel, to Farbenfabriken Bayer Aktiengesellschaft. Production of esters of oxygen acids of boron. 3,061,627, 10–30–62, Cl. 260—462.
Lang, Konrad, and F. Schubert, to Farbenfabriken Bayer Aktiengesellschaft. N-(boron-substituted)-derivatives of carboxylic acid amides, thio-carboxylic acid amides, and ureas. 3,065,267, 11–20–62, Cl. 260—552.
Lang, Otto, to Daimler-Benz Aktiengesellschaft. Multi-cylinder internal combustion engine. 3,039,447, 6–19–62, Cl. 123—55.
Lang, Paul H. : *See*—
Ten Bosch, Maurits, and Lang. 3,035,477.
Lang, Paul H., and F. Vicik, to United Aircraft Corp. Radar antenna azimuth control and search system. 3,040,318, 6–19–62, Cl. 343—760.
Lang, Philippe : *See*—
Heberlin, Georg, and Lang. 3,058,291.
Lang, Richard J., and R. J. Bronikowski, to McGraw-Edison Co. Auxiliary circuit interrupter. 3,038,048, 6–5–62, Cl. 200—120.
Lang, Robert A. B. Sink clamping device. 3,022,519, 2–27–62, Cl. 4—187.
Lang, Robert A. B. Toaster attachment for camp stoves. 3,062,127, 11–6–62, Cl. 99—393.
Lang, Robert J., M. R. Schimmenti, and F. L. Menke, to Esso Research and Engineering Co. Apparatus and method for selecting oil burner spray nozzle tips. 3,023,623, 3–6–62, Cl. 73—432.
Lang, Robert J., and J. D. Atlas, to Esso Research and Engineering Co. Sonic atomizer for liquids. 3,067,948, 12–11–62, Cl. 239—4.
Lang, Robert L., to The General Tire & Rubber Co. Collapsible molded plastic carton. 3,039,651, 6–19–62, Cl. 220—110.
Lang, Sidney, to Multiple Products Corp. Magnetic picture toy. 3,032,926, 5–8–62, Cl. 46—239.
Lang, Tadeusz, and H. Abolins, to Jones Tate & Co. Ltd. Actuators for members such as valves. 3,053,113, 9–11–62, Cl. 74—625.
Lang, Vincent F. Machine for making tie rods. 3,031,672, 5–1–62, Cl. 1—165.
Lang, Vincent F., to Eastman Kodak Co. Camera carrying case. 3,053,299, 9–11–62, Cl. 150—52.
Lang, Warren H., and H. P. Gould, to Swift & Co. Upgrading alkali metal silicofluoride. 3,055,733, 9–25–62, Cl. 23—88.
Lang, William A. : *See*—
Cook, Raymond D., and Lang. 3,021,581.
Cook, Raymond D., and Lang. 3,023,920.
Cook, Raymond D., and Lang. 3,025,338.
Cook, Raymond D., and Lang. 3,066,904.
Lang, William E. Cable laying apparatus. 3,060,696, 10–30–62, Cl. 61—72.6.
Lang, William G., to Abitl Power & Paper Co., Ltd. Method of producing decorative wall panels with prefinished score lines. 3,022,207, 2–20–62, Cl. 154—45.9.
Lang, William L. : *See*—
Dobrosielski, Stephen S., and Lang. 3,018,127.
Langan, Jeremiah E. Delay timer comprising successively charged capacitors with gaseous tube discharge means. 3,047,807, 7–31–62, Cl. 328—72.
Langbein–Pfankauser Werke A.G. : *See*—
Heiling, Heinzfelix M. 3,054,733.
Langdon, Jesse D. Double tank flushing apparatus. 3,026,535, 3–27–62, Cl. 4—28.
Langdon, Percy : *See*—
Rainville, Paul, and Langdon. 3,034,585.
Langdon, William K. : *See*—
Patton, John T., Jr., Levis, and Langdon. 3,067,202.
Langdon, William K., to Wyandotte Chemicals Corp. Method for preparing alkyl-substituted piperazines, alkyl-substituted pyrazines, and mixtures thereof. 3,067,199, 12–4–62, Cl. 260—250.

Langdon, William M., to Basic Products Corp. Rotary vacuum pumps. 3,040,974, 6–26–62, Cl. 230—205.
Langdon, William M., to Basic Products Corp. Sealing fluid degassing means for rotary vacuum pump. 3,040,975, 6–26–62, Cl. 230—205.
Lange, Benjamin O.: *See*—
Holbrook, James G., and Lange. 3,036,273.
Lange, Emil: *See*—
Ingvaldsen, Bernt. 3,046,376.
Lange, Emil, ½ to Aktieselskabet National Industri. Electrical switch. 3,016,437, 1–9–62, Cl. 200—145.
Lange, Gunther: *See*—
Eismann, Helmut, Konshack, and Lange. 3,043,192.
Eismann, Helmut, and Lange. 3,038,380.
Lange, Günther, and H. Zajadatz, to Carl Zeiss. Photographic objective. 3,043,193, 7–10–62, Cl. 88—57.
Lange, Hans-Georg: *See*—
Wehde, Heinrich, Lange, Fischer, and Spreng. 3,051,406.
Lange, Henry B.: *See*—
Jones, Robert E., and Lange. 3,066,150.
Lange, John E. Fluid drive means for vehicles. 3,039,552, 6–19–62, Cl. 180—66.
Lange, Karl H., to Balda-Kamerawerk Rudolf Gruter, Kommanditgesellscbaft. Optical view-finder devices. 3,034,394, 5–15–62, Cl. 88—1.5.
Lange, Klaus P.: *See*—
Groll, Horst P., and Lange. 3,030,443.
Lange, Le Roy J., to American Totalisator Co., Division of Universal Controls, Inc. Routiner for totalisator systems. 3,027,512, 3–27–62, Cl. 324—73.
Lange, Le Roy J., to American Totalisator Co., Division of Universal Controls, Inc. Automatic observer. 3,047,223, 7–31–62, Cl. 235—92.
Lange, Le Roy J., to American Totalisator Co., Division of Universal Controls, Inc. Totalisator system. 3,051,384, 8–28–62, Cl. 235—92.
Lange, Robert: *See*—
Helling, Werner, and Lange. 3,020,220.
Lange, Robert V.: *See*—
Cusick, Charles S., Schwab, and Lange. 3,041,798.
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Langemack, Franklyn J. Fluent food dispenser. 3,035,527, 5–22–62, Cl. 103—163.
Langen, Viktor, to Firma A. Ehrenreich & Cie. Universal joint. 3,025,090, 3–13–62, Cl. 287—87.
Langenau Mfg. Co., The: *See*—
De Marco, Louis, 3,048,435.
Langenheim, Richard H.: *See*—
Marx, John W., Langenheim, Dixon, and Trantham. 3,019,837.
Langer, Arthur W., Jr.: *See*—
Tornqvist, Erik, and Langer. 3,032,510.
Tornqvist, Erik, and Langer. 3,032,513.
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Langer, Harry: *See*—
Ziegler, John C., Beauregard, and Langer. 3,057,585.
Langer, Helmut, to The Machlett Laboratories, Inc. Cathodes for electron tubes. 3,056,060, 9–25–62, Cl. 313—270.
Langer, Nicholas: *See*—
Fener, Alfred. 3,015,601.
Langerhans, Robert L. Method of drying bacteria. 3,031,381, 4–24–62, Cl. 195—96.
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Langfeldt, Laurence R.: *See*—
Gustafson, George W., and Langfeldt. 3,063,408.
Langford, Jerrel, to Drill-O-Matic, Inc. Automatic rotary drilling control. 3,049,339, 8–14–62, Cl. 254—173.
Langford, Oswald V.: *See*—
Mosey, Frederick W., Langford, and Wild. 3,035,814.
Langguth, Robert P., and E. Seifter, to Monsanto Chemical Co. Corrosion-inhibited liquid fertilizer compositions. 3,024,100, 3–6–62, Cl. 71—34.
Langhans, Otto W., to Engelhard Industries, Inc. Production of shaped silver halides. 3,056,185, 10–2–62, Cl. 25—156.
Langhans, Otto W., to Engelhard Industries, Inc. Method of making a honeycomb sandwich structure. 3,057,057, 10–9–62, Cl. 29—475.
Langheck, Richard, to Wilhelm Sihn, Jr., K.-G. Lubricating device for motor-actuated extendible motor-car antenna. 3,035,668, 5–22–62, Cl. 189—26.
Langis, Andre L., to American Home Products Corp. 2-(para-methoxyphenylcarbinol)-1-(phenylalkyl) piperidinium hydrobromide. 3,037,986, 6–5–62, Cl. 260—294.7.
Langis, Andre L., and H. M. McConkey, to American Home Products Corp. Substituted glycineamides. 3,055,937, 9–25–62, Cl. 260—559.
Langley, Bernard W., to Imperial Chemical Industries Ltd. 4-sulfanilamido-2,6-dihalo-pyrimidine derivatives. 3,053,-827, 9–11–62, Cl. 260—154.
Langley, James O. Barber comb. 3,057,367, 10–9–62, Cl. 132—161.
Langley, Lawrence W., to Dresser Industries, Inc. Digital telemetering apparatus. 3,045,210, 7–17–62, Cl. 340—150.
Langlois, David P.: *See*—
Larson, Roy F., Langlois, and Shildneck. 3,016,398.
Rentsbler, Delmar F., Langlois, Larson, Alverson, and Liggett. 3,039,935.
Langlois, Henry J., R. M. Nelden, and B. Ragland, to American Radiator & Standard Sanitary Corp. Fluid coupling. 3,023,581, 3–6–62, Cl. 60—54.
Langmann, Werner: *See*—
Von Brachel, Hanswilli, Bayer, Von Finck, and Langmann. 3,056,695.
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Langmuir, David B. and R. V., H. Shelton, and R. F. Wuerker, to Thompson Ramo Wooldridge Inc. Containment device. 3,065,640, 11–27–62, Cl. 73—517.
Langmuir, Robert V.: *See*—
Langmuir, David B. and R. V., Shelton, and Wuerker. 3,065,640.
Langner, Hans: *See*—
Hoppe, Alfred, Langner, Westerhoff, Wolke, and Hauenstein. 3,019,179.
Langsdorf, William P., Jr., R. N. MacDonald, and C. E. Schweitzer, to E. I. du Pont de Nemours and Co. Process of controlling the molecular weight of linear formaldehyde polymers. 3,017,389, 1–16–62, Cl. 260—67.
Langsetmo, Peder, R. G. Swanson, and L. T. Work, to Strong-Scott Mfg. Co. Pulverizer classifier. 3,038,672, 6–12–62, Cl. 241—185.
Langston, Benny: *See*—
Stephens, Frank M., Jr., Coffer, and Langston. 3,053,648.
Langston, Samuel M., Co.: *See*—
Gallagher, William, Jr. 3,041,907.
Greenwood, Henry B., and Danko. 3,031,937.
Moser, Henry W., Emerson, and Kestenbaum. 3,052,422.
Moser, Henry W., Grobman, and Eskilson. 3,041,968.
Moser, Henry W., Paris, and Paterson. 3,047,249.
Porter, William H. 3,036,483.
Langstroth, Hall. Pressure sensing device. 3,043,339, 7–10–62, Cl. 137—788.
Langton, John A.: *See*—
Masterton, Bruce, and Langton. 3,050,572.
Langway, Paul W., to Joseph Bancroft & Sons Co. Apparatus for plying crimped yarn. 3,016,677, 1–16–62, Cl. 57—34.
Langworthy, James H.: *See*—
Dixon, Thomas F., Zeilberger, and Langworthy. 3,028,-271.
Langzettel, Robert J.: *See*—
Robb, Ian E., and Langzettel. 3,065,446.
Lanham, Donald J.: *See*—
Barwell, John H., and Lanham. 3,048,344.
Lanham, Philip H., K. D. Jack, and J. J. Harvath, to Lewis-Howe Co. Transfer and storage apparatus. 3,062,352, 11–6–62, Cl. 198—19.
Lanham, William E. Bread and roll cooler. 3,027,994, 4–3–62, Cl. 198—230.
Lanham, William E., and G. C. Miller. Bread handling apparatus. 3,056,482, 10–2–62, Cl. 198—30.
Lanham, William M., to Union Carbide Corp. Production of 2-mercapto-2-thiono-derivatives of heterocyclic phosphorus-containing compounds. 3,070,619, 12–25–62, Cl. 260—461.
Lanham, William M., to Union Carbide Corp. 2-chloro-4,6-dimethyl - 2 - oxo - 1,3,2 - dioxaphosphorinanes. 3,021,354, 2–13–62, Cl. 260—461.
Lanham, William M., to Union Carbide Corp. Neutral esters of bicyclo heterocyclic phosphoric acids. 3,022,330, 2–20–62, Cl. 260—461.
Lanier, Marie E.: *See*—
Grieger, Philip F., and Evans. 3,037,066.
Lanier, William M. Indicators. 3,047,405, 7–31–62, Cl. 99—192.
Lanius, James C., Jr., to Illinois Tool Works, Inc. Spring retainer. 3,032,807, 5–8–62, Cl. 16—97.
Lanius, James C., Jr., to Illinois Tool Works. Method of assembly of conical washer on a threaded fastener. 3,037,-221, 6–5–62, Cl. 10—10.
Lankey, Raymond D. Signal for water skier. 3,021,513, 2–13–62, Cl. 340—213.
Lankow, George F., to Minneapolis-Honeywell Regulator Co. Control apparatus. 3,068,706, 12–18–62, Cl. 74—5.34.
Lanman, Joseph T.: *See*—
Pattison, John N., Vance, Hillenbrand, and Lanman. 3,038,954.
Lanmon, C P, II, and D. F. Saurenman, to Schlumberger Well Surveying Corp. Borehole apparatus. 3,060,588, 10–30–62, Cl. 33—178.
Lannacher, Heilmittel Gesellschaft m.b.H.: *See*—
Zirm, Konrad L., and Welchsel. 3,057,856.
Lannan, Patrick E.: *See*—
Domizi, Dante J., Holasek, Smith, and Lannan. 3,058,-004.
Lannan, Patrick E., to Designers For Industry, Inc. Function generator. 3,068,361, 12–11–62, Cl. 250—217.

Lannan, Patrick E., G. J. Prusha, and R. P. Price, to International Resistance Co. Program timing device. 3,049,598, 8–14–62, Cl. 200—46.

Lannert, James W.: *See*—
Doner, John T., and Lannert. 3,033,463.

Lannert, James W., to The Maytag Co. Energy absorption stop. 3,049,025, 8–14–62, Cl. 74—574.

Lanning, Walter C., to Sperry Rand Corp. Electronic programming circuit. 3,024,418, 3–6–62, Cl. 328—122.

Lanning, Walter C., and R. E. Spero, to Sperry Rand Corp. Analog-to-digital converter. 3,034,053, 5–8–62, Cl. 324—83.

Lanning, William C., to Phillips Petroleum Co. Irradiation of tubular materials. 3,027,312, 3–27–62, Cl. 204—154.

Lanoie, Raymond A., to Lew Mfg. Co. Writing instrument. 3,027,873, 4–3–62, Cl. 120—42.03.

Lanore, Raymond, to Usines Decoufle S.A. Filler forming mechanism. 3,030,966, 4–24–62, Cl. 131—84.

Lanore, Raymond, to Usines Decoufle S.A. Tobacco-manipulating machines. 3,032,041, 5–1–62, Cl. 131—61.

Lanphere, Gerald B.: *See*—
Lakins, Franklin D., and Lanphere. 3,049,037.
Lakins, Franklin D., and Lanphere. 3,066,806.

Lanphere, Gerald B., to Lipe-Rollway Corp. Stock pusher. 3,070,239, 12–25–62, Cl. 214—1.5.

Lansing Bagnall Ltd.: *See*—
Arnot, Alfred E. R. 3,031,094.
Goodacre, Cecil. 3,059,944.

Lansing Co.: *See*—
Prutzman, Paul E., Jr. 3,031,929.

Lansky, Zdenek J.: *See*—
Topinka, George F., and Lansky. 3,056,385.

Lansky, Zdenek J., to Parker Hannifin Corp. Fluid pressure motor. 3,027,877, 4–3–62, Cl. 121—38.

Lansky, Zdenek J., to Parker-Hannifin Corp. Double acting hydraulic cylinder with pressure fluid bypass. 3,046,946, 7–31–62, Cl. 121—46.

Lansky, Zdenek J., and R. W. Larsen, to Parker-Hannifin Corp. Pilot-master valves with pressure accumulators. 3,038,500, 6–12–62, Cl. 137—625.27.

Lanston Industries, Inc.: *See*—
Bentzman, Louis. 3,060,825.

Lantery, Harry E. Measuring dispenser. 3,040,937, 6–26–62, Cl. 222—284.

Lantis, John C. Support strap arrangement. 3,061,331, 10–30–62, Cl. 280—150.

Lantor Ltd.: *See*—
Fairclough, John H., and Atkins. 3,034,927.

Lantto, Charles A. Paint remover and surfacing tool. 3,049,-739, 8–21–62, Cl. 15—93.

Lantz, Brice H.: *See*—
Rayder, Walter W. 3,050,136.
Rayder, Walter W. 3,050,137.

Lantz, Dae C., to Pan American Resources, Inc. Refuse converter. 3,020,212, 2–6–62, Cl. 202—118.

Lantz, George H., and M. E. Dorbilits, to Sterling Faucet Co. Drain and stopper assembly. 3,027,569, 4–3–62, Cl. 4—287.

Lantz, Kurt D., to Electrolux, Aktiebolaget. Dishwashing machine. 3,060,946, 10–30–62, Cl. 134—112.

Lanyon, Charles E.: *See*—
Doggett, Roger H., Hervey, and Lanyon. 3,019,138.

Lapadus, Morris. Machine for making slabs. 3,060,540, 10–30–62, Cl. 25—41.

La Pan, Raymond D., to C. G. Sargents' Sons Corp. Drainage systems for processing chambers. 3,070,415, 12–25–62, Cl. 312—229.

Laparra, Maurice: *See*—
Pruvot, Emile, Laparra, and Lugagne. 3,034,886.

Laparte Titanium Ltd.: *See*—
Wigginton, Raymond J. 3,062,673.

Lapat, Philip E., E. Gordon, and R. B. Holden, to United Nuclear Corp. Chemical process and product formed. 3,019,139, 1–30–62, Cl. 134—28.

La Patka, Lawrence T., and J. J. Mayer, to Burroughs Corp. Magnetic core assembly. 3,027,526, 3–27–62, Cl. 336—66.

La Penta, Rocco D.: *See*—
Posson, Donald G. 3,058,712.

Lapeyre, Fernand S. and J. M., and L. E. Demarest, to The Peelers Co. Shrimp peeling machine. 3,018,510, 1–30–62, Cl. 17—2.

Lapeyre, Fernand S. and J. M., to The Peelers Co. Apparatus for separating shrimp from a mixed catch and/or removing the shrimp heads. 3,020,583, 2–13–62, Cl. 17—2.

Lapeyre, Fernand S. and J. M., L. E. Demarest, and R. F. Couret, to The Peelers Co. Machine for shucking oysters. 3,037,237, 6–5–62, Cl. 17—9.

Lapeyre, James M.: *See*—
Lapeyre, Fernand S. and J. M. 3,020,583.
Lapeyre, Fernand S. and J. M., and Demarest. 3,018,510.
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Lapham, Sidney D., to Industrial Hard Chrome Plating Co. of California. Piston ring groove plating fixture. 3,036,-967, 5–29–62, Cl. 204—225.

Lapides, William H.: *See*—
Ellenbogen, Raymond, and Lapides. 3,039,242.

Lapidot, Mordhai: *See*—
Flaszenberg, Alexander, Prulov, and Lapidot. 3,067,023.

Lapidus, Howard, to U.S. Metal Products Co., Inc. Automotive electric socket. 3,060,293, 10–23–62, Cl. 200—133.

Lapidus, Solomon, to Bogart Mfg. Corp. Coaxial switch. 3,064,105, 11–13–62, Cl. 200—153.

La Pierre, Cramer W., D. Cochran, W. H. Janssen, F. K. Powell, and R. W. Samsel, to General Electric Co. Underwater object locator and viewer. 3,067,281, 12–4–62, Cl. 178—6.8.

Lapiken, Nicholas P. Air compressor. 3,044,685, 7–17–62, Cl. 230—131.

Lapins, Alvin W., to Massey-Ferguson Inc. Ground working implement. 3,021,907, 2–20–62, Cl. 172—441.

Lapinski, Theodore F., to Ford Motor Co. Drain hole seal. 3,033,607, 5–8–62, Cl. 296—44.

La Plante, Lyle J.: *See*—
Yendall, Edward F., Roberts, La Plante, and Kahl. 3,057,167.

Lapointe, Donald H., to Royal McBee Corp. Record reader. 3,024,983, 3–13–62, Cl. 235—61.11.

Lapointe, Hugues: *See*—
Cote, Gustave. 3,069,717.

Lapointe, Lloyd J. Calculator. 3,070,294, 12–25–62, Cl. 235—60.

Lapointe, Lloyd J. Calculator. 3,070,299, 12–25–62, Cl. 235—133.

Lapointe, Lloyd J., and R. L. Parker, Jr., to Royal McBee Corp. Drive unit. 3,049,019, 8–14–62, Cl. 74—202.

Lapointe Machine Tool Co., The: *See*—
Bonnafe, Oliver W. 3,046,846.

La Pollo, Michael A. Shuffle shoes. 3,027,657, 4–3–62, Cl. 36—1.

La Pore, Gary E.: *See*—
Reed, James C. 3,018,924.

Laporta, Xavier V., to American-Marietta Co., Stoner-Mudge Co. Division. Partial saponification and partial dehydrohalogenation of vinyl halide-vinyl ester copolymers. 3,021,318, 2–13–62, Cl. 260—87.1.

La Porte Chemicals Ltd.: *See*—
Banfield, Reginald H. 3,043,658.
Hildon, Anthony M., and Marshall. 3,042,488.
Unwin, Jack T. 3,059,999.

La Porte, Ralph T., to Seiberling Rubber Co. Tubeless tires. 3,062,256, 11–6–62, Cl. 152—330.

Laporte Titanium Ltd.: *See*—
Oliver, Derek J., and Craddock. 3,056,689.

Laposka, Edward R.: *See*—
Henry, Elliott A., and Laposka. 3,038,102.

Lapp Insulator Co., Inc.: *See*—
Fiero, Carl D. 3,036,149.

Lapp, Robert D.: *See*—
Bissonette, Alfred J., and Lapp. 3,041,568.

Lapp, Roger H., to United States of America, Navy. Mechanically operated fire detector. 3,052,303, 9–4–62, Cl. 169—2.

Lappala, Risto P.: *See*—
Yaeger, Luther L., and Lappala. 3,023,099.

Lappala, Risto P., and R. T. Nagler, to Bjorksten Research Laboratories, Inc. Standard test article. 3,059,463, 10–23–62, Cl. 73—7.

Lappe, Gertrud nee Reuter: *See*—
Klenk, Ernst, Debuch, Eikermann, and Lappe. 3,031,-478.

Lappe, Maxwell M. Artificial nail and method. 3,037,514. 6–5–62, Cl. 132—1.

Lappin, Gerald R.: *See*—
Mohr, Robert G., and Lappin. 3,015,531.

Lappin, Robert I. Apparatus for treating floors. 3,069,711, 12–25–62, Cl. 15—50.

Lapple, August, G.m.b.H., & Co.: *See*—
Gagne, Oscar J., and Brown. 3,064,314.

Lapple, Walter C., to United States Steel Corp. Centrifugal classifier. 3,031,080, 4–24–62, Cl. 209—144.

Lapsensohn, Jacob. Roofing shingle and shingle assembly. 3,058,265, 10–16–62, Cl. 50—235.

Lapsley, Robert, to Clark Equipment Co. Retractable vane fluid clutch. 3,042,163, 7–3–62, Cl. 192—58.

Lapuyade, Robert H., to Societe des Accumulateurs Fixes et de Traction (Societe Anonyme). Direct current voltage generators supplied by an alternating current power source. 3,040,182, 6–19–62, Cl. 307—66.

Lapuyade, Robert H., to Societe des Accumulateurs Fixes et de Traction (Societe Anonyme). Control systems. 3,040,229, 6–19–62, Cl. 320—32.

Laquerre, Jules L., and A. F. Rosati. Centrifugal spindle clutch. 3,048,249, 8–7–62, Cl. 192—105.

Laqueuille, Clement R. J.: *See*— Van Bergen, Johannes C., Laqueuille, and Boon. 3,047,-184.

La-Ra-Co: *See*—
Anderson, Ralph Z., and Meyer. 3,030,047.

Larberg, Harlan A., to Panhandle Eastern Pipeline Co. Apparatus for analyzing volume of gas in gas pipe lines. 3,051,390, 8–28–62, Cl. 235—185.

Larche, Kurt, to Wilhelm Baier, K.G., Firma. Rigid sliding roof for vehicles. 3,031,226, 4–24–62, Cl. 296—137.

Larché, Kürt, to Wilhelm Baier K.G. Movable roof structures for automobiles or the like. 3,066,975, 12–4–62, Cl. 296—137.

Lardin, Arthur, to Breeze Corp., Inc. Emergency wheel device. 3,024,070, 3–6–62, Cl. 301—39.
Lardin, Arthur R., to Breeze Corporations, Inc. Release and ejector apparatus. 3,057,653, 10–9–62, Cl. 294—83.
Lareau, Norman N., and R. J. Olson, to Eastman Kodak Co. Two-speed camera for flash photography. 3,051,066, 8–28–62, Cl. 95—11.5.
La Resista Corset Co., The : *See*—
Smith, Raymond H. 3,021,845.
Larew, John J., and E. B. McDowell, to General Electric Co. Conveyor control system. 3,070,227, 12–25–62, Cl. 209—75.
Large, Charles M. : *See*—
De Boer, Clarence, Eble, and Large. 3,022,220.
Large, Wayne V. K. : *See*—
Barnett, Cecil E., Large, and Pruden. 3,021,397.
Barnett, Cecil H., Large, and Pruden. 3,021,398.
Deming, Royce D., Jacobitti, Kennedy, Large, and Pruden. 3,046,525.
Large, William E., to Westinghouse Electric Corp. Electric discharge apparatus. 3,026,450, 3–20–62, Cl. 315—171.
Largen, Harold F., and C. M. Weir, to United States of America, Navy. Cartridge tank cradle conveyor. 3,026,662, 3–27–62, Cl. 53—331.5.
Larges, Ernest R., R. K. Frank, and F. S. Kerr, to Holley Carburetor Co. Ignition distributor advance mechanism. 3,062,962, 11–6–62, Cl. 200—31.
Laribee, Lorenzo A. Wire drawing machine. 3,024,897, 3–13–62, Cl. 205—15.
Laricciа, Michael J. Storage and dispensing rack for cans and the like. 3,055,293, 9–25–62, Cl. 101—44.
Laridon, Urbain L. : *See*—
Conix, André J., and Laridon. 3,028,364.
Lariscy, Alec D., to Wagner Products Corp. Plumbers' lead melting furnace. 3,039,452, 6–19–62, Cl. 126—240.
Larison, Oliver K. : *See*—
Randall, Dwight L., Hanley, and Larison. 3,044,288.
Larke, Victor W., and E. V. Spanski, to General Motors Corp. Anti-friction bearing grease dispenser. 3,048,236, 8–7–62, Cl. 184—1.
Lärkfeldt, Birger : *See*—
Allander, Claes, and Lärkfeldt. 3,018,088.
Larkin, Robert E., to Cutler-Hammer, Inc. Push-push operating mechanism and electric switch utilizing same. 3,038,-981, 6–12–62, Cl. 200—153.
Larkins, Dennis N. Relief valve. 3,040,765, 6–26–62, Cl. 137—73.
Larman, William T., S. G. Hawtin, and J. Downing, to British Celanese Ltd. Fibrous material. 3,023,075, 2–27–62, Cl. 18—54.
Larner, Robert W. : *See*—
Canarios, Chrysosthenis M., Weir, and Larner. 3,030,334.
Laroche, Léon C. Carding clothing. 3,058,168, 10–16–62, Cl. 19—111.
La Rock, Harold E. Sr. Liquid blending and mixing apparatus systems. 3,045,985, 7–24–62, Cl. 259—4.
La Rose, William T. Shoe sole fastening method. 3,052,-903, 9–11–62, Cl. 12—142.
Larpenteur, Bernard J., to Bethlehem Steel Co. Agglomeration of iron ores. 3,053,647, 9–11–62, Cl. 75—3.
Larrabee, Clifford E., to Chas. Pfizer & Co. Inc. Di-(N,N-dimethyl-octalecylamine) pamoate. 3,067,242, 12–4–62, Cl. 260—501.
Larrad, Frederick R., to Larrad (Hydrajaws) Ltd. Locating or holding devices. 3,025,071, 3–13–62, Cl. 279—4.
Larrad (Hydrajaws) Ltd. : *See*—
Larrad, Frederick R. 3,025,071.
Larrick, Howard M., and W. R. Brosch. Sound actuated detection and alarm system. 3,049,699, 8–14–62, Cl. 340—261.
Larrieu, Leslie J., to Morris P. Kirk & Son, Inc. Protective composition for metals. 3,035,926, 5–22–62, Cl. 106—14.
Larrieu, Leslie J., to Morris P. Kirk & Sons, Inc. Zinc base alloy. 3,037,859, 6–5–62, Cl. 75—178.
Larrimore, Robert M., Jr. : *See*—
Waxweiler, James H., and Larrimore. 3,046,167.
Larry, George A., to Star Cutter Co. Drill. 3,054,308, 9–18–62, Cl. 77—68.
Larry, Timothy A., to Mueller Co. Service T. 3,037,521. 6–5–62, Cl. 137—315.
Larsen, Allan R., to Raytheon Co. Hydraulic servo valves. 3,023,781, 3–6–62, Cl. 137—623.
Larsen, Aubrey A., to Sterling Drug Inc. Lower-alkyl mono- or bis-(alkanesulfonamido) benzoate esters. 3,067,237, 12–4–62, Cl. 260—470.
Larsen, Carl E. Planographic printing method and apparatus. 3,025,790, 3–20–62, Cl. 101—149.2.
Larsen, Charles T., and A. L. Malinowski, to The Denver Publishing Co. Core shaping tool. 3,060,994, 10–30–62, Cl. 153—79.
Larsen, Einer W., to Western Electric Co., Inc. Apparatus for forming and handling wire parts. 3,024,815, 3–13–62, Cl. 140—71.
Larsen, Einer W., to Western Electric Co., Inc. Collapsible arbors. 3,034,740, 5–15–62, Cl. 242—72.1.
Larsen, Frederick P. Boxes, money-bags, small-cases, caskets and similar articles provided with an alarm device. 3,044,053, 7–10–62, Cl. 340—280.
Larsen, George H., to Ludlow Corp. Method and composition for water-resistant recording material. 3,031,328, 4–24–62, Cl. 117—36.7.
Larsen, Hans A. Face shield for detachable mounting on a safety helmet, and a safety helmet for use in connection with the face shield. 3,021,527, 2–20–62, Cl. 2—8.
Larsen, Hugh W., to General Motors Corp. Shaft vibration dampening. 3,037,573, 6–5–62, Cl. 180—70.
Larsen, Lawrence W., and W. L. McClure, to Sun Oil Co. Pneumatic elevation of granular solids. 3,050,343, 8–21–62, Cl. 302—53.
Larsen, Lester J., and R. L. Lewis, to The Bendix Corp. Control valve for dual independently operable braking systems. 3,019,816, 2–6–62, Cl. 137—621.
Larsen, Mogens D. Multi-scaled slide rules. 3,022,001, 2–20–62, Cl. 235—69.
Larsen, Olaf E., to Phillips Petroleum Co. Rocket propellants. 3,031,339, 5–1–62, Cl. 60—35.4.
Larsen, Olaf E., and E. D. Guth, to Phillips Petroleum Co. Reaction motor fuels. 3,058,301, 10–16–62, Cl. 60—35.4.
Larsen, Oscar F. : *See*—
Fowler, Roland G., Larsen, Dale, and Garvey. 3,061,692.
Larsen, Paul V., P. Eyolfson, G. W. Hill, and E. W. Dils, Jr.; said Larsen, Eyolfson, and Hill, assors. to Esco Corp. Ground working tooth. 3,026,947, 3–27–62, Cl. 172—762.
Larsen, Peter J., to Lord Mfg. Co. Railway journal box lubricator. 3,033,618, 5–8–62, Cl. 308—87.
Larsen, Ralph E., and J. R. Scott. Fishing rod attachment for artificial arm. 3,036,312, 5–29–62, Cl. 4—12.8.
Larsen, Everett P., to Plexographic Mounting Machine Corp. Print proofing apparatus. 3,057,292, 10–9–62, Cl. 101—174.
Larsen, Roy L., and C. G. Brown, to Minneapolis-Honeywell Regulator Co. Warning indicator control apparatus. 3,034,017, 5–8–62, Cl. 315—205.
Larsen, Russell W. : *See*—
Lansky, Zdenek J., and Larsen. 3,03,500.
Larsh, Everett P. : *See*—
Voege, Max. 3,048,756.
Larsh, Everett P., to Plexographic Mounting Machine Corp. Method and apparatus for impregnating motor windings and motor stator. 3,028,266, 4–3–62, Cl. 117—232.
Larsh Everett P. Control apparatus. 3,058,355, 10–16–62, Cl. 73—535.
Larsh, Everett P., and F. E. Coppock ; said Coppock assor. to said Larsh. Insulation coating and method of application thereof. 3,025,188, 3–13–62, Cl. 117—230.
Larsh, Everett P., T. R. Black, Sir., and F. E. Coppock ; said Black, and said Coppock assors to said Larsh. Apparatus for flow coating the slots of a slotted stator. 3,034,479, 5–15–62, Cl. 118—406.
Larson, Alvin C. Mobile type cleaning unit. 3,022,791, 2–27–62, Cl. 134—70.
Larson, Arne V. : *See*—
Simonds, George D., Stieg, McLyman, and Larson. 3,050,-962.
Larson, Arne V., F. M. Marshek, R. M. Putzer, D. G. Schroeder, B. Wright, and J. P. Mann, to FWD Corp. Vehicle having pneumatic bag rollers instead of wheels. 3,023,826, 3–6–62, Cl. 180—23.
Larson, Arthur G., and F. M. Raver, to McQuay, Inc. Machine for making ice in flake form. 3,049,895, 8–21–62, Cl. 62—354.
Larson, B. Frances : *See*—
Larson, Dale H. 3,021,904.
Larson, Carl A., to Whitney Blake Co. Retractile cord and composition for jacket thereof. 3,038,021, 6–5–62, Cl. 174—69.
Larson, Carl E. Programmed stereoscopic viewer. 3,027,-802, 4–3–62, Cl. 88—31.
Larson, Carl V., to Sunset Equipment Co. Bulk milk tank. 3,034,815, 5–15–62, Cl. 220—15.
Larson, Charles O. Support-forming bracket. 3,042,144, 7–3–62, Cl. 182—185.
Larson, Charles O., to Chas. O. Larson Co. Table leg bracket. 3,066,992, 12–4–62, Cl. 311—110.
Larson, Chas. O., Co. : *See*—
Larson, Charles O. 3,066,992.
Larson, Dale H., deceased, by B. F. Larson, executrix. Bean harvester. 3,021,904, 2–20–62, Cl. 171—53.
Larson, Dale O. : *See*—
Johnson, Wesley R., and Larson. 3,023,279.
Larson, Donald J., to Caterpillar Tractor Co. Replaceable ripper tip. 3,063,176, 11–13–62, Cl. 37—142.
Larson, Donald W. Shaker and pouring dispenser. 3,016,168, 1–9–62, Cl. 222—189.
Larson, Edward A. Range finder for golfers. 3,031,764, 5–1–62, Cl. 33—64.
Larson, Eric G. Power lift for boat-mounted outboard motors. 3,030,055, 4–17–62, Cl. 248—4.
Larson, Ernest D., and G. B. Roden, to United States Steel Corp. Air-sweep classifier. 3,058,590, 10–16–62, Cl. 209—137.
Larson, Eugene. Air curtain device for doorways. 3,059,-563, 10–23–62, Cl. 98—36.
Larson, George C. Precision universal gauge. 3,015,891, 1–9–62, Cl. 33—143.
Larson, Glen M., to Mine Safety Appliances Co. Helmet liner. 3,025,525, 3–20–62, Cl. 2—3.
Larson, Gustav, to Helm Accessories, Inc. Spring clip. Re. 25,182, 6–5–62, Cl. 40—209.
Larson, Harry J. Mat switch and method of making the same. 3,056,005, 9–25–62, Cl. 200—86.

Larson, John C. : *See*—
Duethman, Ray L., and Larson. 3,037,724.
Payton, James Y., and Larson. 3,054,907.
Larson, John C., to Minneapolis-Honeywell Regulator Co. Control apparatus. 3,035,795, 5–22–62, Cl. 244—77.
Larson, John L., J. R. Mohr, C. J. Eilers, and W. F. Logemann, to Stainless & Steel Products Co. Transport tank construction. 3,065,974, 11–27–62, Cl. 280—5.
Larson, Kenneth R., to United States Gypsum Co. Dimensionally stable expanded perlite and method for making the same. 3,062,752, 11–6–62, Cl. 252—378.
Larson, Kenneth R., to Snap-On Tools Corp. Torque measuring wrenches of the torsion type. 3,069,903, 12–25–62, Cl. 73—139.
Larson, Louis P. : *See*—
Erwin, Frederick J., Jr., and Larson. 3,031,821.
Larson, Melvin L., to American Metal Climax, Inc. Molybdenum carboxylate compounds. 3,042,694, 7–3–62, Cl. 260—429.
Larson, Melvin L., to American Metal Climax, Inc. Aliphatic molybdenum carboxylate chlorides and method for making same. 3,046,287, 7–24–62, Cl. 260—429.
Larson, Merlyn O. Disposable cape for beauty salon patrons. 3,031,676, 5–1–62, Cl. 2—50.
Larson, Milton H., to American Fixture, Inc. Means and methods for partitioning merchandise counters. 3,039,836, 6–19–62, Cl. 312—140.3.
Larson, Olaf A. : *See*—
Beuther, Harold, Flinn, and Larson. 3,053,750.
Larson, Robert L., and L. R. Hetzler, to General Motors Corp. Motor vehicle electrical system. 3,022,456, 2–20–62, Cl. 322—28.
Larson, Robert L., L. R. Hetzler, and C. Marks, to General Motors Corp. Electrical system. 3,070,704, 12–25–62, Cl. 290—4.
Larson, Robert S., to National Lock Co. Refrigerator latch. 3,045,465, 7–24–62, Cl. 70—153.
Larson, Roy F. : *See*—
Reinhiller, Delmar F., Langlois, Larson, Alverson, and Liggett. 3,039,935.
Larson, Roy F., D. P. Langlois, and P. R. Shildneck, to A. E. Staley Mfg. Co. Stabilized phytic acid solutions and methods of preparation thereof. 3,016,398, 1–9–62, Cl. 260—461.
Larson, Sherman L. Car wash apparatus and controls therefor. 3,035,293, 5–22–62, Cl. 15—21.
Larson, Wesley S., and J. P. Qualey, to De Bell & Richardson, Inc. Joining thermoplastic sections. 3,053,726, 9–11–62, Cl. 156—304.
Larsson, Bjorn E. : *See*—
Zdanowski, Richard E., Toy, Larsson, and Kine. 3,061,-563.
Larsson, Gert I. H. : *See*—
Macy, John M., and Larsson. 3,034,741.
Larsson, Karl B., to Bofors Aktiebolaget Bromsregulator. Air brake cylinders with built-in slack adjuster. 3,043,406, 7–10–62, Cl. 188—196.
Larsson, Krister : *See*—
Wilhelmsson, Gunnar, and Larsson. 3,036,447.
Larsson, Lars, and J. Thenander, to Aktiebolaget Westerasmaskiner. Fan having a great axial length and comprising an air inlet at both ends. 3,034,702, 5–15–62, Cl. 230—128.
Larsson, Lars E., and E. G. Lundin. Apparatus for and method of fatigue testing materials. 3,031,886, 5–1–62, Cl. 73—91.
Larsson, Oscar U. : *See*—
Stahl, Nils E. J., and Larsson. 3,023,950.
La Rue, Donald G., to Kaiser Aluminum & Chemical Corp. Flume outlet. 3,024,614, 3–13–62, Cl. 61—15.
La Rue, Harold E., to Phillips Petroleum Co. Slip tube gauge for lp-gas tanks. 3,025,703, 3–20–62, Cl. 73—298.
La Rue, Merwin W., Jr., to Bell & Howell Co. Automatic exposure control with an intermittent needle entrapment. 3,066,587, 12–4–62, Cl. 95—10.
La Rue, Phillip G. : *See*—
Hebert, John W., and La Rue. 3,035,533.
Hebert, John W., and La Rue. 3,043,247.
Hebert, John W., and La Rue. 3,043,249.
Lasak, Edwin M., and W. E. Lauterbach, to Dole Refrigerating Co. Defrosting means for refrigerating plates. 3,042,381, 7–3–62, Cl. 257—187.
La Salle Steel Co. : *See*—
Shaw, Milton C., Smith, and Cook. 3,055,102.
Lasch, Cecil A., Jr., and W. G. Johnson, to Electroglas, Inc. Thermocompression lead bonding apparatus. 3,056,617, 8–21–62, Cl. 219—85.
Lasdon Foundation, Inc. : *See*—
Huffman, Max N. 3,053,863.
Huffman, Max N. 3,058,999.
Huffman, Max N. 3,060,203.
Huffman, Max N. 3,067,215.
Laser, Jakob, to North American Philips Co., Inc. Protective device for rotating anode tubes. 3,062,960, 11–6–62, Cl. 250—99.
Laser, William F., to City National Bank and Trust Co. of Chicago, as trustee under the Cartridge Type Seal Liquidation Trust. Rotary seal with flexible stator. 3,061,318, 10–30–62, Cl. 277—39.
Laser, William F., and K. D. Yost, to City National Bank and Trust Co. of Chicago, as trustee under the Cartridge Type Seal Liquidation Trust. Rotary seal. 3,031,199, 4–24–62, Cl. 277—86.
Lash, Charles C., to Pan American Petroleum Corp. Recording and display of seismic data. 3,024,442, 3–6–62, Cl. 340—15.
Lash, Elliott J., to Ace Fastener Corp. Tacking latch for stapling machines. 3,037,206, 6–5–62, Cl. 1—3.
Lash, John K. : *See*—
Smith, Hubert T., and Lash. 3,067,466.
Lash, Joseph F., and P. K. Trimble, to General Motors Corp. Balancing machine. 3,017,773, 1–23–62, Cl. 73—462.
Lash, Joseph F., and P. K. Trimble, to General Motors Corp. Unbalance indicator. 3,056,300, 10–2–62, Cl. 73—462.
Lash, Seymour, and C. J. Zemus. Ventilator for protective garment. 3,045,243, 7–24–62, Cl. 2—1.
Lashley, Pearl M. Hot food conserving cabinet. 3,030,486, 4–17–62, Cl. 219—35.
Lashta, Peter, to Aktiebolaget Electrolux. Vacuum cleaner connection having reciprocating coupling means. 3,049,367, 8–14–62, Cl. 285—7.
Lashua, Sherman C., to The Dow Chemical Co. Molding grade copolymers and process for preparing the same. 3,054,783, 9–18–62, Cl. 260—80.5.
Lasier, David W., to Schlage Lock Co. Universal right and left hand hold open arm. 3,051,982, 9–4–62, Cl. 16—49.
Lasiewicz, Thaddeus W., and R. J. Shafer, to GPE Controls, Inc. Roll position control. 3,039,513, 6–19–62, Cl. 153—87.
Laskey, Ben G. : *See*—
Clarke, Glenn E., and Laskey. 3,055,269.
Laskey, Richard P. : *See*—
Chaffee, Robert H., Laskey, Quimby, and Bowles. 3,066,354.
Laskin, Allen I. : *See*—
Diassi, Patrick A., Laskin, and Principe. 3,060,176.
Weisenborn, Frank L., and Laskin. 3,031,494.
Laskin, Allen I., to Olin Mathieson Chemical Corp. 21-hydroxylation of steroids. 3,056,730, 10–2–62, Cl. 195—51.
Laskin, Allen I., J. Fried, and P. A. Diassi, to Olin Mathieson Chemical Corp. 2*β*-hydroxy steroids and microbiological method of producing same. 3,063,992, 11–13–62, Cl. 260—239.55.
Lasko, John C., to Republic Die & Tool Co. Press. 3,030,-879, 4–24–62, Cl. 100—269.
Lasko, John C., to Republic Die & Tool Co. Free standing die spotting rack. 3,046,669, 7–31–62, Cl. 33—174.
Lasko Metal Products, Inc. : *See*—
Bowlby, James F. G. 3,031,752.
Lasky, Jack S., to United States Rubber Co. Catalysts for the preparation of trans 1,4 polyisoprene (synthetic balata) and methods for their preparation. 3,054,754, 9–18–62, Cl. 252—429.
Lasky, Marvin L., and L. F. Fehlner. Sonar dome unit. 3,039,077, 6–12–62, Cl. 340—5.
Lasley, Harold L., to General Motors Corp. Transmission clutch control. 3,017,974, 1–23–62, Cl. 192—4.
Lasnier, Joseph G. R., to Societe : Brodard et Taupin. Conveyors. 3,024,888, 3–13–62, Cl. 198—29.
Lassen, Dallas D., to H. H. Robertson Co. Wall structure. 3,054,482, 9–18–62, Cl. 189—34.
Lassetter, William L. : *See*—
Owen, Archibald D., and Lassetter. 3,049,705.
Lassiat, Adele : *See*—
Lassiat, Raymond C. 3,058,236.
Lassiat, Raymond C., deceased ; by A. Lassiat, administratrix, to Sun Oil Co. Separating gas from granular solids. 3,058,236, 10–16–62, Cl. 34—168.
Lassig, Wolfgang, to Agfa Aktiengesellschaft. Developing apparatus for the silver salt diffusion process. 3,062,124, 11–6–62, Cl. 95—94.
Lässig, Wolfgang, and E. Gunther, to Agfa Aktiengesellschaft. Photographic diffusion transfer process for planographic printing. 3,063,837, 11–13–62, Cl. 96—29.
Lasso Ropeways Ltd. : *See*—
Schule Albert. 3,036,531.
Lasswell, Fred D., Jr. Harvesters. 3,040,507, 6–26–62, Cl. 56—328.
Last, Bernard : *See*—
Thomas, Herbert G., Cornish, Shenkle, and Last. 3,045,-486.
Laster, Harold W. Vehicle with elevator roof section. 3,019,046, 1–30–62, Cl. 296—10.
Laster, Walter R., to Borg-Warner Corp. Universal joint. 3,039,183, 6–19–62, Cl. 29—416.
Lastnik, Abraham L. Earpad support for protective helmets. 3,021,526, 2–20–62, Cl. 2—3.
Lasto, Stephen W. : *See*—
Duhaime, Raymond A., and Lasto. 3,031,127.
Laszlo, Charles J. Fish lure. 3,041,772, 7–3–62, Cl. 43—42.06.
Laszlo, Steve. Air supply and fire extinguishing helmet. 3,068,865, 12–18–62, Cl. 128—142.
Laszlo, Tibor S., to Avco Corp. High temperature implement. 3,043,972, 7–10–62, Cl. 313—32.
Latella, Dominick M., and I. H. Updegraff, to American Cyanamid Co. Decorative overlay sheets and articles containing same prepared from modified thermosetting melamine-formaldehyde resinous composition. 3,067,077, 12–4–62, Cl. 154—43.
Latendorf Conveying Corp. : *See*—
Stadelman, Frank. 3,057,497.
Stadelman, Frank. 3,066,812.
Latham, Albert W. : *See*—
Kamphaus, Paul L., and Latham. 3,023,329.

Latham, Albert W., to Westinghouse Electric Corp. Coupling. 3,044,810, 7–17–62, Cl. 287—53.

Latham, Burton F., Jr., and T. A. Ruble, to Continental Carbon Co. Method and apparatus for making carbon black. 3,033,651, 5–8–62, Cl. 23—209.4.

Latham, Harry L.: *See*—
Dever, John A., Newbold, Parnell, and Latham. 3,064,191.

Latham, Norman R. Rotary apparatus and method of making the same. 3,032,260, 5–1–62, Cl. 230—122.

Latham, Norton E.: *See*—
Clapp, Robert J., Latham, and Stansbury. Re. 25,202.

Latham, Robert, F. C. Thompson, H. Sixsmith, A. Folkierski, and A. H. Pickering, to English Electric Valve Co. Ltd. Ultrahigh-frequency electro-magnetic wave transmission apparatus. 3,032,727, 5–1–62, Cl. 333—98.

Latham, William S. and W. F. Saars, to United States of America, Navy. Magnetic recorder and reproducer. 3,015,-810, 1–2–62, Cl. 340—174.1.

Lathrop, Harold F., to American Air Filter Co., Inc. Air conditioner. 3,018,642, 1–30–62, Cl. 62—427.

Lathuy, Eugene P. Devices for agitating and ejecting liquids and the like. 3,025,690, 3–20–62, Cl. 68—134.

Latimer, Joseph J.: *See*—
Lowell, Arthur I., Latimer, and Buselli. 3,049,522.

Latimer, Kenneth E., to Submarine Cables Ltd. Method and apparatus for handling cables. 3,026,668, 3–27–62, Cl. 57—77.4.

Latimer, Kenneth E., to Submarine Cables Ltd. Power supply equipment for submarine cables. 3,036,220, 5–22–62, Cl. 307—58.

Latimer, Kenneth E., and T. Oswald, to Submarine Cables Ltd. Attenuation equalization device and method for using same. 3,041,555, 6–26–62, Cl. 333—28.

Latimer, Thomas E., and R. C. Posh, to American Metal Products Co. Tilting seat track. 3,066,907, 12–4–62, Cl. 248—420.

Latina, Harry B., to A. G. Spalding & Bros., Inc. Baseball mitt or glove construction. 3,051,958, 9–4–62, Cl. 2—19.

Latini, Roland N. to A. G. Spaulding & Bros., Inc. Golf club cover. 3,055,409, 9–25–62, Cl. 150—52.

Latinen, George A. Reactor for polymerizations in viscous media. 3,031,273, 4–24–62, Cl. 23—285.

Latinen, George A., and R. H. M. Simon, to Monsanto Chemical Co. Apparatus for devolatizing viscous fluids. 3,067,-812, 12–11–62, Cl. 159—6.

La Torre, Anthony W., and C. S. Knight, to Geo. Knight & Co., Inc. Back seam press. 3,039,288, 6–19–62, Cl. 69—7.

La Tour, Harry, and G. D. Miller, to Armco Steel Corp. Floating tube welding apparatus. Re. 25,300, 12–11–62, Cl. 219—59.

Latour, William A.: *See*—
Kyame, George J., and Latour. 3,046,612.

Latourette, Harold K., and H. M. Castrantas, to FMC Corp. Continuous epoxidation method. 3,065,245, 11–20–62, Cl. 260—348.

Latourette, Harold K., and H. M. Castrantas, to FMC Corp. Continuous epoxidation method. 3,065,246, 11–20–62, Cl. 260—348.5.

La Treel, Jack K., to L. Ocello and L. Cevola. Air pressure actuated work holding apparatus. 3,052,479, 9–4–62, Cl. 279—3.

Latreille, Charles W., to General Motors Corp. Air suspension control apparatus. 3,043,326, 7–10–62, Cl. 137—112.

Latsch, William, and H. Mueller. Portable driver for fasteners. 3,035,269, 5–22–62, Cl. 1—49.

Latschar, Carl E.: *See*—
Kovarik, Frank J., and Latschar. 3,018,157.

Latsnik, Abraham L.: *See*—
Landsberg, Meyer I., Lastnik, and Lewis. 3,059,364.

Latta, Claude A.: *See*—
Honea, Charles B., Latta, and Pendleton. 3,054,778.

Latta, Michael C.: *See*—
Otteson, Norman H. 3,023,428.

Lattay, James B., to Riegel Paper Corp. Engine cooling air system for tractors. 3,043,390, 7–10–62, Cl. 180—54.

Latter, Eugene H. Automatically operable electrode holder and carrier. 3,035,147, 5–15–62, Cl. 219—60.

Lattmann, Max: *See*—
Lander, Fred, Lattmann, and Oberacker. 3,020,801.

Lattmann, Max E., to Firma Contraves A.G. Accuracy testing apparatus for anti-aircraft guns. 3,020,756, 2–13–62, Cl. 73—167.

Lau Blower Co., The: *See*—
Abel, Edmund W. 3,023,297.
Kinsworthy, Donald D. 3,035,761.

Lau, Erwin M., to Black Products Co. Bag filling machines. 3,062,307, 11–6–62, Cl. 177—118.

Laub, John H. Flow meter. 3,056,295, 10–2–62, Cl. 73—204.

Laubach, Gerald D.: *See*—
Agnello, Eugene J., and Laubach. 3,031,375.
Agnello, Eugene J., and Laubach. 3,031,444.
Agnello, Eugene J., Laubach, and Moreland. 3,067,197.
Berg, Rudolph G., Figdor, and Laubach. 3,018,295.
Berg, Rudolph G., Figdor, and Laubach. 3,033,855.
Berg, Rudolph G., and Laubach. 3,022,295.
Berg, Rudolph G., and Laubach. 3,022,297.
Berg, Rudolph G., and Laubach. 3,022,325.
Figdor, Sanford K., Hess, and Laubach. 3,069,415.
Figdor, Sanford K., Hess, and Laubach. 3,069,416.
Figdor, Sanford K., and Laubach. 3,064,017.

Laubach, Gerald D.: *See*—Continued
Figdor, Sanford K., Pinson, Bloom, and Laubach. 3,045,-010
Hess, Hans-Jurgen E., Hughes, and Laubach. 3,047,594.
Lombardino, Joseph G., McLamore, and Laubach. 3,021,331.
Lombardino, Joseph G., McLamore and Laubach. 3,045,-008.
Pinson, Ellis R., Jr., Agnello, and Laubach. 3,033,747.
Pinson, Ellis R., Jr., Agnello, and Laubach. 3,033,873.
Pinson, Ellis R., Jr., Agnello, and Laubach. 3,033,874.

Laubach, Gerald D., and E. R. Pinson, Jr., to Chas. Pfizer & Co., Inc. Certain 4-phenylbenzoyl methyl-1, 2-diaryl pyrazolidine-diones. 3,016,383, 1–9–62, Cl. 260—310.

Laube, Herbert L.: *See*—
Tucker, Carl L., and Laube. 3,037,364.

Laubenfels, Clarence R. Potentiometer. 3,058,080, 10–9–62, Cl. 338—143.

Laubenfels, Clarence R. Accelerometer. 3,064,483, 11–20–62, Cl. 73—514.

Laubenfels, Clarence R. Turn-limiting mechanism. 3,069,-914, 12–25–62, Cl. 74—10.2.

Lauber, John A., to Continental Optical Co., Inc. Spectacle frame. 3,040,623, 6–26–62, Cl. 88—41.

Lauchenauer, Alfred, and M. Schwemmer, to Raduner & Co. A.-G. Textile sheet material and process for producing same. 3,044,891, 7–17–62, Cl. 117—7.

Laucher, Richard G., K. M. Budge, R. W. Falconer, and D. H. Bieber, to The Marquardt Corp. Thrust reverser utilizing aft end mechanical blockage. 3,059,426, 10–23–62, Cl. 60—35.54.

Lauck, Albert G.: *See*—
Early, Richard L., Lauck, Pigg, and Sorbie. 3,030,564.

Lauck, Albert G., to Owens-Illinois Glass Co. Glass mold carrier assembly. 3,021,644, 2–20–62, Cl. 49—41.

Lauck, Albert G., to Owens-Illinois Glass Co. Gob guiding apparatus. 3,025,637, 3–20–62, Cl. 49—14.

Lauck, Albert G., and R. A. Kurtz, to Owens-Illinois Glass Co. Article take-out mechanism. 3,043,447, 7–10–62, Cl. 214—6.

Lauck, John A., to Clark Equipment Co. Pressure loaded gear pump. 3,057,303, 10–9–62, Cl. 103—126.

Lauck, John A., to Borg-Warner Corp. Hydraulic power system. 3,068,795, 12–18–62, Cl. 103—11.

Lauck, John A., and L. R. Bobnar, to Clark Equipment Co. Pump. 3,046,902, 7–31–62, Cl. 103—126.

Lauck, Robert M., and A. Dock Fon Toy, to Victor Chemical Works. Gelatin food product. 3,018,180, 1–23–62, Cl. 99—130.

Lauck, Robert M., and J. W. Tucker, to Stauffer Chemical Co. Baking acid and baking powder containing the same. 3,041,177, 6–26–62, Cl. 99—95.

Laucks, Howard H., O'Connor, and Cuny, to The Bendix Corp. Speed control system for turbine and liquid pressure supply device. 3,052,252, 9–4–62, Cl. 137—27.

Laudel, Arthur, Jr., to United States of America, Civil Defense. Electrical signaling system. 3,035,181, 5–15–61, Cl. 307—87.

Lauderdale, Jack D., 20% to H. R. Shoemake. Toy aircraft. 3,068,611, 12–18–62, Cl. 46—75.

Lauer, Robert J.: *See*—
Himka, John, Lauer, and Mackie. 3,034,823.

Lauer, Rodney F., to Westinghouse Electric Corp. Air conditioning units. 3,045,448, 7–24–62, Cl. 62—263.

Lauer, Wilbur H.: *See*—
Matsch, Ladislas C., Yendall, Lauer, and Koehn. 3,066,493.

Laufer, Robert J.: *See*—
Neuworth, Martin B., Laufer, and Previc. 3,032,595.

Laughlin, John R.: *See*—
Armstrong, Robert G., and Laughlin. 3,057,986.

Laughlin, Myron P. Chemical feeder. 3,043,482, 7–10–62, Cl. 222—161.

Laughlin, Robert D., to HRB-Singer, Inc. Radioisotope pressure transducer. 3,025,396, 3–13–62, Cl. 250—43.5.

Laughlin, Roger H.: *See*—
Martin, Hollinshead T., and Laughlin. 3,042,282.

Laughter, Ralph G., Sr. Washing apparatus. 3,056,153, 10–2–62, Cl. 15—50.

Lauhoff Grain Co.: *See*—
Lauhoff, Howard J., and Hardgrove. 3,054,676.

Lauhoff, Howard J., and A. J. Hardgrove, to Lauhoff Grain Co. Process for producing a cereal adjunct for use in brewing. 3,054,676, 9–18–62, Cl. 99—80.

Laukhuff-Pratt Mfg. Corp.: *See*—
Pratt, Robert H., and Backus. 3,065,505.

Launa-Werke "Walter Ulbricht," VEB: *See*—
Höringklee, Walter. 3,069,354.

Launay, Jean J., to Applications Scientifiques, Techniques, Industrielles et Commerciales A.S.T.I.C. (Societe Anonyme Monegasque). Mine roof supports. 3,023,862, 3–6–62, Cl. 180—36.

Launder, Ernie L., to H. & L. Tooth Co. Adjustable tooth shank connection. 3,016,253, 1–9–62, Cl. 287—54.

Launder, Richard L., to H. & L. Tooth Co. Wear plate mounting for digger tooth construction. 3,020,655, 2–13–62, Cl. 37—142.

Launer, Sol J. Panel retractor. 3,018,507, 1–30–62, Cl. 16—78.

Lauper, Ralph J. Magnetically controlled game. 3,043,595, 7–10–62, Cl. 273—118.

Laupheimer, Robert : *See*—
Melmed, Artaur S., Shevlin, and Laupheimer. 3,054,989.
Laupman, Robert R., to Stork & Co's Apparatenfabriek N.V. Gebr. Method of rinsing yarns and fabrics in the form of skeins. 3,049,396, 8–14–62, Cl. 8—155.2.
Laupman, Robert R., to Stork & Co's Apparatenfabriek N.V. Gebr. Apparatus for continuously wet treating yarns and fabrics in rope form. 3,050,976, 8–28–62, Cl. 68—176.
Lauppe, Wilhelm : *See*—
Fahrbach, Erich, Lauppe, Schabert, Heling, and Nottebohm. 3,069,305.
Laurencin, Guy M., to F. Jungheinrich. Lift trucks with lift means translatable in the horizontal direction relative to the vehicle. 3,043,460, 7–10–62, Cl. 214—670.
Laurens, Paul G. L. : *See*—
Allard, Emmanuel M. L., and Laurens. 3,038,465.
Laurenson, Laurence : *See*—
Holland, Leslie A., and Laurenson. 3,056,740.
Laurent, Francois, to Paillard S.A. Variable focal objectives. 3,034,404, 5–15–62, Cl. 88—57.
Laurent, George J., to Philco Corp. Radar system including anti-jamming means. 3,050,726, 8–21–62, Cl. 343—17.1.
Laurent, Howard : *See*—
Von Berg, Richard E., and Laurent. 3,020,969.
Laurent, Milton P., deceased; F. A. Rudman, J. J. Roach, and R. S. Laurent, executors. Method of assembling pressure sealed joints in hollow vessels. 3,054,173, 9–18–62, Cl. 29—453.
Laurent, Rusy S. : *See*—
Laurent, Milton P. 3,054,173.
Laurer, George J. : *See*—
Dayger, Jonas E., Salani, Hailey, Laurer, and Babel. 3,029,019.
Laurer, George J., and R. S. Washington, to International Business Machines Corp. Data transfer and control apparatus. 3,038,145, 6–5–62, Cl. 340—172.5.
Lauri, Angelo. Eccentricity and thickness gauge. 3,028,676, 4–10–62, Cl. 33—178.
Laurie, Albert F. : *See*—
Rovang, Wallace G., and Laurie. 3,033,517.
Lauriello, John P. : *See*—
Johnson, Sigurd W., and Lauriello. 3,060,019.
Johnson, Sigurd W., and Lauriello. 3,060,051.
Laurien, Ira M. : *See*—
Arsem, Alvan D., Osborne, Laurien, and Flateau. 3,069,-988.
Laurin, Gerard F. Meter reading attachment. 3,027,551, 3–27–62, Cl. 340—188.
Lauro, Stephen J. Device to quantitatively determine the unbalance of a human body. 3,027,761, 4–3–62, Cl. 73—172.
Laurre, Michel : *See*—
Joulie, Maurice, Laurre, Maillard, and Muller. 3,033,-882.
Lausen, Günther : *See*—
Bridelbaugh, Carl, and Lausen. 3,052,282.
Lausen, Verne H., to Phelps Dodge Copper Products Corp. Apparatus for coating magnet wire and the like. 3,040,703, 6–26–62, Cl. 118—67.
Laustrup, Robert V. : *See*—
Parmenter, Charles R., and Laustrup. 3,047,107.
Lant, Wilhelm, and P. Ehrenberg, to General Motors Corp. Checking of the dimensions of articles. 3,037,372, 6–5–62, Cl. 73—37.5.
Lautenbacher, Johann, to Enna-Werk Optische Anstalt Dr. Appelt K.G. Photographic wide-angle objective of extremely high light intensity. 3,036,499, 5–29–62, Cl. 88—57.
Lautenschlager, Hans : *See*—
Stadler, Robert, and Lautenschlager. 3,060,227.
Lauterbach, Eugene F. : *See*—
Hime, Robert L., and Lauterbach. 3,061,092.
Lauterbach, Norman E., to Ritter Co., Inc. Control panel for X-ray unit. 3,025,401, 3–13–62, Cl. 250—93.
Lauterbach, Norman E., to Ritter Co., Inc. Supporting mechanism for surgical operating lights. 3,065,332, 11–20–62, Cl. 240—1.4.
Lauterbach, William E. : *See*—
Lasusak, Edwin M., and Lauterbach. 3,042,381.
Lautin, Leon : *See*—
Wilson, Harry W., and Lautin. 3,030,081.
Wilson, Harry W., and Lautin. 3,070,357.
Lautzenhiser, Argyle G., to General Motors Corp. Acceleration responsive device with controlled time delay. 3,023,-284, 2–27–62, Cl. 200—61.53.
Lauve, Henry D., to Lyon Inc. Tire trim with marginal tension relief. 3,026,147, 3–20–62, Cl. 301—37.
Laux Tonbildschau KG : *See*—
Ballauf, Heinz. 3,065,922.
Lavellee & Ide., Inc. : *See*—
Lavellee, Joseph A. 3,053,118.
Lavellee, Joseph A., to Lavallee & Ide., Inc. Method of manufacturing reamers. 3,053,118, 9–11–62, Cl. 76—108.
Lavallee, Paul. Filtering device. 3,056,504, 10–2–62, Cl. 210—328.
Lavallee, Paul, to G. Gaudfrin. Filtering apparatus. 3,061,-477, 10–30–62, Cl. 127—9.
La Vallee, Theodore R., to Eaton Mfg. Co. Multiple drive control system. 3,017,527, 1–16–62, Cl. 310—94.
Lavallee, Wilfrid, to General Society of Refuse Recovery Ltd. Segregator and method of use thereof. 3,061,205, 10–30–62, Cl. 241—24.
La Valley, Robert J. : *See*—
Karner, Bernard C., and La Valley. 3,061,527.
Lavanchy, Patricia, to Johnson & Johnson. Product and method of manufacture. 3,051,588, 8–28–62, Cl. 117—68.5.
Lavender, Richard : *See*—
Brandenburg, Henry L., and Lavender. 3,063,393.
Laverdisse, Edmond, to Les Glaceries de la Sambre, Societe Anonyme. Process and apparatus for producing polished glass. 3,042,279, 7–3–62, Cl. 226—111.
Laverdisse, Edmond, to Glaceries de la Sambre Societe Anonyme, Les. Glass polishing tools. 3,067,549, 12–11–62, Cl. 51—195.
Laverty, Martin J., and C. Brunner, to Murray Mfg. Corp. Tube and pole piece assembly. 3,037,800, 6–5–62, Cl. 287—20.3.
Lavery, Charles A., and F. O. Holt, to National Tank Co. Control system for closed cycle gas dehydration and hydrocarbon recovery system. 3,055,157, 9–25–62, Cl. 55—33.
Laviana, Donald W. : *See*—
Barton, Edward D., and Laviana. 3,065,314.
Fritz, William E., and Laviana. 3,054,426.
Laviana, Donald W., to General Motors Corp. Timer and terminal block assembly. 3,045,091, 7–17–62, Cl. 200—168.
Laviana, Donald W., W. E. Fritz, and J. R. Cassano, to General Motors Corp. Electric transmitter. 3,043,922, 7–10–62, Cl. 200—24.
Laviana, Donald W., and T. Fedkew, to General Motors Corp. Room thermostat. 3,051,001, 8–28–62, Cl. 73—363.7.
Laviana, Lawrence J., to M. H. Rhodes, Inc. Coin collecting apparatus. 3,069,073, 12–18–62, Cl. 232—44.
Laviano, Don. Main spring inserter. 3,028,004, 4–3–62, Cl. 206—70.
Lavin, Edward : *See*—
Kass, Robert E., Markhart, and Lavin. 3,063,995.
Markhart, Albert H., Hunt, and Lavin. 3,015,643.
Lavin, Edward, and A. H. Markhart, to Phelps Dodge Copper Products Corp. Coating composition comprising a polyvinyl acetal, a melamine-aldehyde resin and a polyurethane, process for preparing same, and electrical conductor coated therewith. 3,037,959, 6–5–62, Cl. 260—45.2.
Lavin, Edward, and S. Cohen, to Shawinigan Resins Corp. Polyspirane resins composition. 3,041,313, 6–26–62, Cl. 260—67.
Lavin, Edward, and A. H. Markhart, ½ to Shawinigan Resins Corp., and ½ to Phelps Dodge Copper Products Corp. Composition comprising a polyvinyl acetal, a phenol-aldehyde resin, a melamine-aldehyde resin and a polyurethane, process for preparing same, and electrical conductor coated therewith. 3,068,189, 12–11–62, Cl. 260—45.1.
Lavin, Edward, A. F. Fitzhugh, and R. N. Crozier, ½ to Shawinigan Resins Corp. and ½ to Phelps Dodge Copper Products Corp. Composition comprising a polyvinyl acetal, a phenolaldehyde resin and a polyisocyanate process for preparing same and electrical conductor coated therewith. 3,069,379, 12–18–62, Cl. 260—43.
Lavin, Herbert P., to General Electric Co. Optical system. 3,040,127, 6–19–62, Cl. 178—7.5.
Lavino, E. J., and Co. : *See*—
Focht, Robert M. 3,031,748.
Lavino Shipping Co., Inc. : *See*—
Conner, Kenneth B., and Hunter. 3,033,399.
La Violette, Paul A., Jr., to The High Standard Mfg. Corp. Tubular magazine firearm with loading port in side of magazine. 3,018,577, 1–30–62, Cl. 42—6.
Lavis, William R., and H. R. Dillner. Buffer unit. 3,062,-387, 11–6–62, Cl. 213—223.
La Voice, Richard. Clothespin. 3,060,536, 10–30–62, Cl. 24—137.
Lavoie Laboratories, Inc. : *See*—
Keen, Harry J., and Sears. 3,041,548.
Keen, Harry J., and Sears. 3,041,549.
La Voie, William E., to Chicago Backing Co. Double-faced adhesive material and method of making same. 3,021,250, 2–13–62, Cl. 156—324.
Law, Allan. Dough proving devices. 3,056,361, 10–2–62, Cl. 107—7.
Law, Don C., to Magline, Inc. Dockboards. 3,069,709, 12–25–62, Cl. 14—72.
Law, Foster C., Jr., to Peerless Corp. Device for closing containers. 3,044,073, 7–17–62, Cl. 1—260.
Law, Harold B., to Radio Corp. of America. Cathode ray tube. 3,064,154, 11–13–62, Cl. 313—79.
Law, Marvin A., to Fieldcrest Mills, Inc. High-low terry pile fabric and method. 3,030,691, 4–24–62, Cl. 28—73.
Lawall, Adam, and G. Sorsa, to R. E. Curran. Stock stop for collets. 3,041,078, 6–26–62, Cl. 279—51.
La Warre, Robert W., and M. D. Markley. Speed responsive switch. 3,021,402, 2–13–62, Cl. 200—61.46.
Lawdermilt, Ray F. Spoilage indicator for food containers. 3,067,015, 12–4–62, Cl. 23—253.
Lawes, Alfred J. : *See*—
Feldman, Sidney Gregory and Lawes. 3,047,940.
Lawin, Walter H. Wood stain. 3,016,279, 1–9–62, Cl. 8—6.5.
Lawler, Frank P. : *See*—
Rzeszutko, Joseph G., and Lawler. 3,029,493.
Lawler, John A., to Boeing Airplane Co. Noise suppressor and thrust reverser for jet engine nozzles. 3,032,981, 5–8–62, Cl. 60—35.54.
Lawler, John A., and W. A. Reinhart, to Boeing Airplane Co. Jet engine noise suppression nozzle with multiple settings. 3,061,038, 10–30–62, Cl. 181—33.

Lawler, Richard P.: *See*—
Cressey, John R., Peterson, Nazareth, and Lawler. 3,051,-932.
Cressey, John R., Peterson, Nazareth, and Lawler. 3,051,933.

Lawless, John J.: *See*—
Coates, Harold, and Lawless. 3,050,522.

Lawley, Charles F. Automatic bobber device. 3,022,599, 2–27–62, Cl. 43—43.11.

Lawlor, Francis: *See*—
Braid, Milton, and Lawlor. 3,038,936.

Lawlor, Francis E.: *See*—
Haszeldine, Robert N., Iserson, and Lawlor. 3,069,481.
Hauptschein, Murray, Braid, and Lawlor. 3,019,258.
Hauptschein, Murray, Braid, and Lawlor. 3,051,764.
Iserson, Hyman, Lawlor, and Hauptschein. 3,062,794.

Lawlor, Francis E., and A. Truchan, to Pennsalt Chemicals Corp. Method for the oxidation of olefins. 3,051,749, 8–28–62, Cl. 260—539.

Lawman, William E., to British Engines Ltd. Electric cable glands having a soft liner. 3,039,796, 6–19–62, Cl. 285—343.

Lawrance, Harold R., to The Griscom-Russell Co. Heat exchanger construction. 3,020,024, 2–6–62, Cl. 257—32.

Lawrence, Anthony P. W.: *See*—
Russell, William M., and Lawrence. 3,057,160.

Lawrence, Augustine H., Jr., and J. H. Dowling, to E. I. du Pont de Nemours and Co. Chlorofluorohydrocarbons in dry cleaning compositions and process. 3,042,479, 7–3–62, Cl. 8—142.

Lawrence, Billy L., to Texas Instruments Inc. Transistorized chopper circuit. 3,021,470, 2–13–62, Cl. 321—16.

Lawrence Brothers, Inc.: *See*—
McNinch, Delmar D. 3,041,657.

Lawrence, Chester W.: *See*—
Shipley, Charles W., Lawrence, and Wasilisin. 3,037,592.

Lawrence, David J.: *See*—
Scott, Bruce A., Oden, and Lawrence. 3,067,531.

Lawrence, Derek P.: *See*—
Hughes, Philip G., and Lawrence. 3,024,637.

Lawrence, Donald. Extensible fireplace damper. 3,056,399, 10–2–62, Cl. 126—288.

Lawrence, Frank D. Holders for bottles and like necked containers. 3,016,259, 1–9–62, Cl. 294—87.2.

Lawrence, Frank L., to Aerialmatic Co. Ltd. Portable spar with counter-balance mechanism for bias-mounted head block. 3,032,322, 5–1–62, Cl. 254—190.

Lawrence, Frank L., to Aerialmatic Engineering Ltd. Reversible power-driven winch with automatic control of reverse speed. 3,045,974, 7–24–62, Cl. 254—166.

Lawrence, Franklin I. L., and M. J. Pohorilla. Lubricating composition containing a sulfurized hydrocarbon viscosity index improver. 3,036,004, 5–22–62, Cl. 252—45.

Lawrence, Franklin I. L., and R. G. Crumley. Reaction product of an organic isocyanate with an oxygen- or sulfur-condensed petroleum hydrocarbon, method of making same, and mixture thereof with an epoxy resin. 3,038,873, 6–12–62, Cl. 260—42.

Lawrence, Frederick J.: *See*—
Lawrence, Joseph L. and F. J. 3,067,559.

Lawrence, Frederick R.: *See*—
Woodbridge, Joseph E., and Lawrence. 3,030,410.

Lawrence, Harry J., to P. C. Sorenson, and L. Jewell. Miles-per-gallon meter. 3,024,646, 3–13–62, Cl. 73—114.

Lawrence, James C. Single sheet feeder. 3,039,768, 6–19–62, Cl. 271—59.

Lawrence, Joseph L. and F. J., to King Sales & Engineering Co. Package caser. 3,067,559, 12–11–62, Cl. 53—381.

Lawrence, Julius A.: *See*—
Morris, John R., Schlicht, Adams, and Lawrence. 3,017,361.

Lawrence, Kenneth B., and J. A. V. Turck, Jr., to Reeves Brothers, Inc. Resilient cushion structure. 3,066,928, 12–4–62, Cl. 267—1.

Lawrence, Leonard. Laminating method and means for manufacturing synthetic resinous foam pads. 3,020,186, 2–6–62, Cl. 156—228.

Lawrence, Louis L., to Miehle-Goss-Dexter, Inc. Sheet handling apparatus. 3,032,340, 5–1–62, Cl. 271—68.

Lawrence Paper Co., The: *See*—
Hill, Justin D., and Cain. 3,021,252.

Lawrence, Robert E., to United States of America, Navy. Compact achromatic telescope lens. 3,016,798, 1–16–62, Cl. 88—57.

Lawrence, Robert L.: *See*—
Menick, Daniel, Perry, and Lawrence. 3,065,084.

Lawrence, Robert L., and G. A. Perry, to Corn Products Co. Process for improving the flavor of cultured milk products and the resulting product. 3,022,176, 2–20–62, Cl. 99—162.

Lawrence, Robert W.: *See*—
Boddorff, Raymond D., Lawrence, and Roth. 3,063,373.

Lawrence, Robert W., and R. J. Shiel, to Hercules Powder Co. Mining blasting apparatus. 3,055,648, 9–25–62, Cl. 262—12.

Lawrence, Ronald T., to Nuquip Ltd. Device for introducing a fluid into a stream of another fluid. 3,063,885, 12–18–62, Cl. 137—205.5.

Lawrence, Thomas E., R. C. Kelner, C. W. Gardiner, and R. R. Evans, to Laboratory for Electronics, Inc. Data organization techniques. 3,054,987, 9–18–62, Cl. 340—172.5.

Lawrence, Thomas F., and J. F. Ingleson, to General Electric Co. Removable fluid impingement starter nozzle construction for turbo-engine. 3,016,227, 1–9–62, Cl. 253—78.

Lawrence, Wayne L.: *See*—
Metz, Ramey B., and Lawrence. 3,054,881.

Lawrence, William J., Jr.: *See*—
Bauer, Robert E., and Lawrence. 3,042,273.

Lawrence, Winthrop S., and W. L. Hochner, to Kaumagraph Co. One-step molding of a decorated thermosetting resin article. 3,057,018, 10–9–62, Cl. 18—59.

Lawrie, Kenneth G. A.: *See*—
Dawson, Philip J., and Lawrie. 3,023,704.

Lawrin, Alex. Combined brush and scraper for shoes. 3,065,-478, 11–27–62, Cl. 15—112.

Lawroski, Harry: *See*—
Fenske, Merrell R., McCormick, and Lawroski. 3,050,448.

Laws, Kenneth L.: *See*—
Rinnovatore, James V., and Laws. 3,057,945.

Laws, Leonard S. Ticktacktoe game apparatus. 3,046,016, 7–24–62, Cl. 273—130.

Laws, Peter. Anti-friction bearings for rotating spindles. 3,061,387, 10–30 62, Cl. 308—187.

Lawser, John J., to Ford Motor Co. Glow plug igniter. 3,017,540, 1–16–62, Cl. 317—98.

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Lawser, John J., to The Procter-Silex Corp. Bread toaster. 3,035,509, 5–22–62, Cl. 99—329.

Lawson, Archibald, to Lawson Products Corp. Apparatus for separating mixed liquids. 3,055,505, 9–25–62, Cl. 210—335.

Lawson, Bert E. A., to Sylvania Electric Products Inc. Apparatus for fabricating a socket mount. 3,057,042, 10–9–62, Cl. 29—34.

Lawson, Bert E. A., to Sylvania Electric Products Inc. Socket mount. 3,061,251, 10–30–62, Cl. 248—27.

Lawson Co. Division of Miehle-Goss-Dexter, Inc., The: *See*—
Thumim, Carl. 3,025,049.
Thumim, Carl. 3,031,054.

Lawson, David E. Apparatus for dry mixing of material. 3,027,583, 3–13–62, Cl. 19—145.5.

Lawson, David E. Seat construction. 3,044,758, 7–17–62, Cl. 267—1.

Lawson, George I., to P. R. Mallory & Co., Inc. Dual capacitor terminal. 3,042,846, 7–3–62, Cl. 317—256.

Lawson, Gerald W., and A. J. Arrigo, to United States of America, Air Force. Exhaust gas thermometer. 3,022,-668, 2–27–62, Cl. 73—342.

Lawson, Gustaf R., to General Electric Co. Radiant heat room thermostat. 3,040,148, 6–19–62, Cl. 200—140.

Lawson, Herbert E., to United States of America, Navy. Electrolyte. 3,035,945, 5–22–62, Cl. 136—154.

Lawson, Ivar S.: *See*—
Walters, John C., and Lawson. 3,052,975.

Lawson, Maurice O. High temperature compression heater. 3,019,621, 2–6–62, Cl. 62—467.

Lawson Products Corp.: *See*—
Lawson, Archibald. 3,055,505.

Lawson Products, Inc.: *See*—
Chiodine, Samuel F. 3,035,427.
Lawson, Robert H. 3,016,726.

Lawson, Richard L., to Scott Mfg. Co. Method of making coupling ferrules. 3,056,197, 10–2–62, Cl. 29—552.

Lawson, Reginald W. Pillows, cushions, pillow cases or the like. 3,042,938, 7–10–62, Cl. 5—337.

Lawson, Robert C. Linecasting machine. 3,068,997, 12–18–62, Cl. 199—20.

Lawson, Robert H., to Lawson Products, Inc. Knit fabric incorporating elastic thread and garments formed thereof. 3,016,726, 1–16–62. Cl. 66—177.

Lawson, Robert H., to Scott & Williams, Inc. Knitting machine. 3,029,619, 4–17–62, Cl. 66—55.

Lawson, Robert H., to Scott & Williams, Inc. Multi-feed circular knitting machine. 3,046,763, 7–31–62, Cl. 66—43.

Lawson, Roderick A. Apparatus for aligning, spacing and holding connectors. 3,031,669, 5–1–62 Cl. 1—19.8.

Lawson-Tancred, Henry, to Tancred & Langley Ltd. Processing baths. 3,051,461, 8–28–62, Cl. 263—11.

Lawtex Corp.: *See*—
Zbar, Jack J. 3,042,212.

Lawton, C. A., Co., Inc., The: *See*—
Johnson, Bruce D. 3,050,845.

Lawton, Emil A., C. M. Allen, and S. Cosgrove, to Battelle Memorial Institute. Method of lubrication comprising the use of metal phthalocyanine. 3,023,164, 2–27–62, Cl. 252—49.7.

Lawton, John G., to United States of America, Army. Sawtooth voltage generator utilizing integrator. 3,047,820, 7–31–62, Cl. 331—143.

Lawton, Lewis M., Jr.: *See*—
Parry, Albert W., Lawton, and Goldfischer. 3,028,592.

Laxo, Ed. Can body blank forming machine. 3,054,437, 9–18–62, Cl. 153—25.

Laxo, Ed. Can body blank registration apparatus. 3,060,-880, 10–30–62, Cl. 113—115.

Lay, George R.: *See*—
Helling, Raymond P., and Lay. 3,058,487.

Lay, Hans: *See*—
Helling, Werner, and Lay. 3,033,768.

Lay, Ralph B.: *See*—
Hamilton, Earl F., and Lay. 3,059,963.

Lay, Robert, to Danfoss. Motor-driven plunger-type compressor. 3,061,178, 10–30–62, Cl. 230—58.
Lay, Robert, F. B. Paul, and G. E. Roy, to General Motors Corp. Quick detachable, shielded electrical connector. 3,050,658, 8–21–62, Cl. 315—85.
Laycak, John F.: *See*—
McCreanor, Richard A., Uphoff, Laycak, and Libenschek. 3,020,033.
Laycak, John F., to Jones & Laughlin Steel Corp. Electronic surface inspection system. 3,019,346, 1–30–62, Cl. 250—219.
Laycak, John F., to Jones & Laughlin Steel Corp. Electronic surface inspection system. 3,019,347, 1–30–62, Cl. 250—223.
Laycak, John F., to Jones & Laughlin Steel Corp. Electronic caliper. 3,035,478, 5–22–62, Cl. 88—14.
Laycak, John F., and R. L. Uphoff, to Jones & Laughlin Steel Corp. Inspection and control system. 3,020,034, 2–6–62, Cl. 266—23.
Laycox, William J., to Bacon American Corp. Apparatus for rereading tires. 3,042,966, 7–10–62, Cl. 18—2.
Layden, Edward C.: *See*—
Brown, Joseph L., Layden, Taylor, and Weiss. 3,043,509.
Layer, Edwin H., Jr., and C. S. Peet, to United States of America, Atomic Energy Commission. Method of forming a fuel element for a nuclear reactor. 3,018,238, 1–23–62, Cl. 204—154.2.
Layfield, James: *See*—
Stoddard, Charles H., and Layfield. 3,024,004.
Layman, Claude E.: *See*—
Allman, William T., Jr., and Layman. 3,050,819.
Layman, Martha K.: *See*—
Lindenfelser, Richard, Layman, and Kilthau. 3,021,239.
Layman, Ralph E., Jr.: *See*—
Magrane, John K., and Layman. 3,020,255.
Layman, Ralph E., Jr., to American Cyanamid Co. Resinous coating composition. 3,025,251, 3–13–62, Cl. 260—21.
Layman, Robert W.: *See*—
Gow, James D., and Layman. 3,025,429.
Laymon, Frank L.: *See*—
Foster, James L., Laymon, and Myers. 3,027,291.
Layne-Arkansas Co.: *See*—
King, Ralph M. 3,028,150.
Layne, Bert M. Adapter for degree plate and chuck and method of use. 3,041,095, 6–26–62, Cl. 287—119.
Layne, Byron P. Re-usable protective coating and stripping device. 3,029,932, 4–17–62, Cl. 206—46.
Layne, Fred A. Ceramic ware setter. 3,057,035, 10–9–62, Cl. 25—153.
Layne, Harold W., Sr., to Inland Container Corp. Tamper proof carton lock. 3,023,945, 3–6–62, Cl. 229—36.
Layne, Harold W., Sr., to Inland Container Corp. One-piece carton. 3,055,569, 9–25–62, Cl. 229—16.
Layne, Richard C., to Auto-Mechanical Dock Board, Inc. Dockboard unit. 3,061,855, 11–6–62, Cl. 14—71.
Layton, J. C., to Towlsaver, Inc. Roll supporting construction. 3,029,035, 4–10–62, Cl. 242—55.53.
Layton, J. C., to Towlsaver, Inc. Dispensing mechanism for strip material. 3,069,214, 12–18–62, Cl. 312—39.
Layton, J. C., and J. L. Perrin, to Towlsaver, Inc. Automatically dismountable roll. 3,038,598, 6–12–62, Cl. 206—58.
Layton, Leroy E.: *See*—
Hughes, Jesse E., Layton, Lozier, and Nolan. 3,047,440.
Layton, Margaret M., R. B. Randels, and G. F. Stockdale, to Corning Glass Works. Electrical capacitors and method of production. 3,020,456, 2–6–62, Cl. 317—258.
Layton, Paul L., to Owens-Corning Fiberglas Corp. Glass fiber reinforced bodies. 3,041,218, 6–26–62, Cl. 154—43.
Lazar, John M. Rotary shaft sealing means. 3,023,013, 2–27–62, Cl. 277—41.
Lazar, Michael, and J. J. Bertram, to Burndy Corp. Removable control assembly for an electrical connector. 3,028,575, 4–3–62, Cl. 339—217.
Lazar, Nicholas, and K. S. McIntosh, to Corning Glass Works. Variable impedance device. 3,051,879, 8–28–62, Cl. 317—249.
Lazari, Fabrizio, and A. Sormani, to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Automatic cartridge-filling machine for powdered and semigelatinous explosives. 3,031,912, 5–1–62, Cl. 86—20.
Lazerson, Herman M., to Solar Light Mfg. Co. Trotter construction for combination ventilating and illuminating units. 3,045,577, 7–24–62, Cl. 98—40.
Lazich, Branko. Relay. 3,030,469, 4–17–62, Cl. 200—87.
Lazzara, Nicholas J. Therapeutic table. 3,027,208, 3–27–62, Cl. 311—7.
Lazzari, Giacomo: *See*—
Marullo, Gerlando, Lazzari, and Alessandrini. 3,069,233.
Lazzarini, Richard F.: *See*—
Chin, David D., Lazzarini, and Goldfinger. 3,044,027.
Lazzery, Angelo G., to Radio Corp. of America. Ultrasonic transmitter. 3,028,832, 4–10–62, Cl. 116—137.
Lazzery, Angelo G., to Radio Corp. of America. Transducers. 3,041,418, 6–26–62, Cl. 179—111.
Le, Paul L., and G. E. Sims, to Eastman Kodak Co. Preparation of fine HMX. 3,069,477, 12–18–62, Cl. 260—644.
Lea, Bernard A.: *See*—
Fry, Douglas J., and Lea. 3,035,917.
Lea, Kenneth R., and T. M. Veazey, to Monsanto Chemical Co. Purification of unreacted monomers. 3,060,159, 10–23–62, Cl. 260—85.5.
Lea, Lawrence N. Manually operated resuscitator. 3,046,978, 7–31–62, Cl. 128—29.
Lea, Norman J., to Texaco Inc. Explosive assembly. 3,036,523, 5–29–62, Cl. 102—24.
Leach, Byron E.: *See*—
Heath, Robert G., and Leach. 3,047,465.
Leach, Charles W.: *See*—
Hafner, William F., Leach, and Smeal. 3,046,217.
Leach Corp.: *See*—
Mann John E. 3,045,150.
Leach, Edward B., to Audley Engineering Co. Ltd. Device for providing a seal for a hollow body containing a pressurised fluid. 3,043,469, 7–10–62, Cl. 220—46.
Leach, Edward B., to Audley Engineering Co. Ltd. Means for use in the lubrication of fluid controlling valves and other articles. 3,052,317, 9–4–62, Cl. 184—6.
Leach, Edward M., to Union Carbide Corp. Dry investment mold and method. 3,032,425, 5–1–62, Cl. 106—38.3.
Leach & Garner Co.: *See*—
Leach, Philip F. 3,063,137.
Leach, Harold H.: *See*—
Alford, Andrew, and Leach. 3,068,428.
Leach, James M.: *See*—
Hull, Ezekiel H., Leach, and Tate. 3,055,873.
Leach, John A.: *See*—
Blais, Maurice E., and Leach. 3,060,659.
Leach, John M. Process and apparatus for treating materials. 3,018,182, 1–23–62, Cl. 99—134.
Leach, John M. Swinging tray conveyors. 3,031,066, 4–24–62, Cl. 198—140.
Leach, Joseph E., Jr.: *See*—
Leach, Niels J., Leach, and Linderfelt. 3,024,597.
Leach, Lloyd O. Paint roller washer. 3,037,516, 6–5–62, Cl. 134—138.
Leach, Philip F., to Leach & Garner Co. Jeweler's stock. 3,063,137, 11–13–62, Cl. 29—183.
Leach, Robert O.: *See*—
Berry, Virgil J., Jr., Leach, and Wagner. 3,028,912.
Leach, Sam L., to Pid Corp. Apparatus for facilitating the reproduction or enlargement of lenticulated photographs. 3,028,785, 4–10–62, Cl. 88—24.
Leach, Sam L., to Tennessee Pictures, Inc. Traversing camera mount providing variable arcuate paths of travel. 3,037,441, 6–5–62, Cl. 95—86.
Leach, Thurman H. Animal feeder. 3,057,330, 10–9–62, Cl. 119—53.
Leader, Forest: *See*—
Brashear, Turner G., Jr., and Leader. 3,019,328.
Leader, Forest, to L & B Welding Equipment, Inc. Flux grinding apparatus. 3,021,081, 2–13–62, Cl. 241—91.
Leader, Harold, J. S., S. and V. Bagging attachment for rotary lawn mowers. 3,047,998, 8–7–62, Cl. 56—202.
Leader, Joseph S.: *See*—
Leader, Harold, J. S., S. and V. 3,047,998.
Leader, Sidney A., to Rybar Laboratories Ltd. Siphon tube assemblies for atomisers. 3,026,049, 3–20–62, Cl. 239—433.
Leader, Solomon: *See*—
Leader, Harold, J. S., S. and V. 3,047,998.
Leader, Victor: *See*—
Leader, Harold, J. S., S. and V. 3,047,998.
Leadley, Wilfred P.: *See*—
Stovold, Frederick C., Leadley, and Wilson. 3,038,348.
Leafe, Edward L.: *See*—
Godson, David H., Leafe, Lush, and Stevenson. 3,069,429.
League, George F. Means for interconnecting the harnesses and treadles on a loom. 3,053,284, 9–11–62, Cl. 139—88.
Leahey, Thomas F.: *See*—
Rafferty, Martin A., and Leahey. 3,070,360.
Leake, Henry E., W. L. Ferrell, and J. W. Gosnell. Handling vehicle. 3,058,600, 10–16–62, Cl. 212—8.
Leakey, Robert D. Fish-traps. 3,069,803, 12–25–62, Cl. 43—105.
Leal, Bernardine J., and P. J. Pinto, to Leslie Salt Co. Method of making a compressed tablet. 3,042,531, 7–3–62, Cl. 71—141.
Leaman, Audley B., to Lockheed Aircraft Corp. Pin actuating device. 3,024,592, 3–13–62, Cl. 60—26.1.
Leaman, Audley B., and L. V. Giladett, to United States of America, Navy. Missile pneumatic de-ballasting mechanism. 3,064,538, 11–20–62, Cl. 89—1.7.
Leaman, Wilbur K.: *See*—
Coonradt, Harry L., and Leaman. 3,048,536.
Leap, Clinton B. Proposal cover. 3,038,742, 6–12–62, Cl. 281—29.
Lear, Earl B.: *See*—
Samhammer, Donald F., and Lear. 3,021,099.
Lear, Floyd R., Sr., to Industrial Gravure Co. Etching machine. 3,040,754, 6–26–62, Cl. 134—147.
Lear, Inc.: *See*—
Abichandani, Krishin P., Krug, Hainsworth, and Story. 3,062,487.
Ambrosini, Leonard R. 3,045,650.
Auld, Samuel H., Jr. 3,027,505.
Auld, Samuel H., Jr. 3,053,486.
Barkalow, Clare E. 3,070,192.
Eklund, Harry N. 3,015,956.
Green, David J. 3,018,049.
Horton, William F., and Engman. 3,018,071.
Kutsche, Robert O. 3,063,424.
MacLeod, Roderick N., and Stovke. 3,036,558.
Meyers, Raymond L., and Kramer. 3,018,072.

Lear, Inc.: *See*—Continued
Schulte, Frederick E. 3,031,766.
Uecker, Norman C. 3,045,356.
Van Namen, Charles, Jr., and Malarik. 3,025,437.
Waterfield, Roland A. 3,039,324.
Will, Christian H., Jr. 3,043,147.
Lear Siegler, Inc.: *See*—
Brouwer, Harvard. 3,070,759.
Carrington, Wilbur A., and van Bronkhorst. 3,069,911.
Chirgwin, Keith M., and Stratton. 3,070,740.
Faux, Kenneth R., and Titsworth. 3,056,304.
Faux, Kenneth R., and Titsworth. 3,069,912.
Hoffman, Robert W. 3,066,777.
Lear, William P., Sr. 3,070,336.
Lear, William P., Sr., to Lear Siegler, Inc. Aircraft wheel alignment control system. 3,070,336, 12–25–62, Cl. 244—103.
Learmont, Robert K., ½ to R. K. Learmont, and ½ to C. J. Williams. Movable insulating panel for a storage unit. 3,057,284, 10–9–62, Cl. 98—6.
Learmont, Tom, and R. E. Talley, to Bucyrus-Erie Co. Saddle block for power shovel. 3,045,844, 7–24–62, Cl. 214—135.
Learning Through Seeing, Inc.: *See*—
Barnette, Caspar C. 3,021,751.
Leary, Daniel C., Jr. Tear strip pouch type containers and method and apparatus for making same. 3,057,539, 10–9–62, Cl. 229—86.
Leary, Joseph A.: *See*—
Reavis, James G., Leary, and Maraman. 3,049,423.
Reavis, James G., Leary, and Maraman. 3,063,829.
Leary, Thomas G., to International Business Machines Corp. Error free data input system. 3,032,265, 5–1–62, Cl. 235—153.
Leas, Arnold M. Production of high temperature, high performance, and high energy hydrocarbon fuels. 3,067,126, 12–4–62, Cl. 208—66.
Lease, Kenneth C., Sr. Extrusion gun heater. 3,020,907, 2–13–62, Cl. 126—229.
Leasure, William C., to Mira-Pak, Inc. Method and apparatus for packaging. 3,027,695, 4–3–62, Cl. 53—28.
Leasure, William C., to Mira-Pak, Inc. Method and apparatus for packaging. 3,027,696, 4–3–62, Cl. 53—28.
Leat, James H., H. W. Roberts, and T. H. Gibbs, to National Research Development Corp. Demountable partitions. 3,049,195, 8–14–62, Cl. 189—34.
Leatham, Earl: *See*—
Snyder, Richard P., Leatham, Gabor, and Pack. 3,060,-000.
Leatham, Earl, and A. H. Puck, to Harbison-Walter Refractories Co. Production of dead burned grain. 3,060,042, 10–23–62, Cl. 106—58.
Leather Industries, Inc.: *See*—
Bennett, John M. 3,051,612.
Leather Research Corp.: *See*—
Kremen, Seymour S., and Southwood. 3,048,929.
Leatherman, Alfred F., to Copperweld Steel Co. Control device. 3,035,143, 5–15–62, Cl. 219—10.77.
Leatherman, Cleown A.: *See*—
Keskkula, Henno, Sterling, and Leatherman. 3,067,164.
Leatherman, Martin, to United States of America, Navy. Process for the preparation of anhydrous ethyl sulfuric acid. 3,024,263, 3–6–62, Cl. 260—459.
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Leathers, Clarence H. Valve seat puller. 3,029,501, 4–17–62, Cl. 29—213.
Leathers, Joel M., and G. E. Woodward, to The Dow Chemical Co. Synthesis of acrylic acids. 3,051,747, 8–28–62, Cl. 260—526.
Leathers, Ward, to Burroughs Corp. Document sorter. 3,051,-309, 8–28–62, Cl. 209—72.
Leathers, Ward, G. S. Di Monico, and L. Bruehl, to International Business Machines Corp. Stabilized control mechanism for a gun mounted on a turret. 3,015,254, 1–2–62, Cl. 89—41.
Leavell, Charles. Vibrationless percussive tool. 3,028,840, 4–10–62, Cl. 121—13.
Leavell, Charles. Vibration elimination. 3,028,841, 4–10–62, Cl. 121—13.
Leavens, William B. Method for inspecting cartons. 3,035,-380, 5–22–62, Cl. 53—47.
Leavens, William B., Jr.: *See*—
Gorrell, John E., and Leavens. 3,066,301.
Leavenworth Steel, Inc.: *See*—
Haynes, William J., Jr. 3,050,204.
Leaver, Eric W., and G. R. Mounce, to Electronic Associates Ltd. Automatic level inspector. 3,038,606, 6–12–62, Cl. 209—111.5.
Leavesley, George W., and J. O. Trimble, to The Budd Co. Dual steel rule blanking die and method of making it. 3,020,785, 2–13–62, Cl. 76—107.
Leavit, Edward C.: *See*—
Deptula, Frank J., Hanson, Leavit, and Flansburgh. 3,038,288.
Leavitt, Fred W.: *See*—
Mays, Rolland L., Rhodes, and Leavitt. 3,069,362.
Mays, Rolland L., Rhodes, and Leavitt. 3,069,363.
Leavitt, Julian J.: *See*—
Joyce, Asa W., and Leavitt. 3,055,895.
Lewis, Charles E., Paul, Tsang, and Leavitt. 3,051,697.
Schoen, Geza E., Jr., and Leavitt. 3,019,221.
Leavitt, Minard A., E. A. Pecker, and D. H. Burns, to Telautograph Corp. Telescriber apparatus. 3,046,336, 7–24–62, Cl. 178—18.
Leavitt, Minard A., and J. L. Dautremont, Jr., to Telautograph Corp. Power-writing telescriber. 3,066,185, 11–27–62, Cl. 178—19.
Leavitt, Stanley L., to United States of America, Air Force. Blade retention device. 3,047,268, 7–31–62, Cl. 253—77.
Leaycraft, Edgar C., to International Business Machines Corp. Square loop magnetic manganese-ferrite material and manufacture thereof. 3,054,752, 9–18–62, Cl. 252—62.5.
Lebach, John L. Cigarette package. 3,033,419, 5–8–62, Cl. 221—87.
Le Baron, Ira M., to International Minerals & Chemical Corp. Beneficiation of phosphate ores. 3,032,190, 5–1–62, Cl. 209—12.
Le Baron, Ira M., to International Minerals & Chemical Corp. Electrostatic separation in non-uniform field. 3,059,772, 10–23–62, Cl. 209—127.
Le Baron, Ira M., and D. H. Fenske, to International Minerals & Chemical Corp. Process of beneficiating langbeinite ores. 3,016,138, 1–9–62, Cl. 209—2.
Le Baron, Ira M., and G. L. Samsel, to International Minerals & Chemical Corp. Electrostatic separation of normally liquid materials. 3,022,889, 2–27–62, Cl. 209—2.
Le Beau, Richard A., to American Seal-Kap Corp. of Delaware. Railway brake beam leveling device. 3,020,984, 2–13–62, Cl. 188—212.
Lebeaux, Jacob M., to Oil Center Tool Co. Well head equipment. 3,025,083, 3–13–62, Cl. 285—18.
Lebeaux, Jacob M., and P. L. De Marsh, to FMC Corp. Integral well head assembly. 3,050,126, 8–21–62, Cl. 166—97.
Le Bel, Clarence J. Broad-band logarithmic translating apparatus utilizing threshold capacitive circuit to compensate for inherent inductance of logarithmic impedance. 3,037,-129, 5–29–62, Cl. 307—88.5.
Le Bel, John P., ½ to H. E. Nichols. Space vehicle. 3,062,-148, 11–6–62, Cl. 102—92.5.
Lebel, Pierre L.: *See*—
Landler, Yvan, and Lebel. 3,037,948.
Lebell, Don, to Don Lebell Associates. Data converter. 3,059,064, 10–16–62, Cl. 179—100.3.
Lebell, Don, Associates: *See*—
Lebell, Don. 3,059,064.
Leber, Adolf, and G. Hansen, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Free-flowing ammonium chloride. 3,048,470, 8–7–62, Cl. 23—100.
Leber, Henry: *See*—
Perini, Louis A., and Leber. 3,066,027.
Perini, Louis A., and Leber. 3,066,028.
Leber, Jean P., and K. Lutz, to Sandoz Ltd. Process for the manufacture of phosphorus-containing esters. 3,041,367, 6–26–62, Cl. 260—461.
Lebermann, August A. Automatic work head and indexing device. 3,065,831, 11–27–62, Cl. 51—225.
Le Blan, Louis Y. S., and J. C. C. Radix, to Societe Alsacienne de Constructions Mecaniques, Societe Anonyme dite: Mechanical filter for analogical calculation. 3,056,301, 10–2–62, Cl. 74—1.
Le Blanc, Carrol P., and L. W. Henslee, Jr., to Pittsburgh Plate Glass Co. Electrolytic alkali-chlorine diaphragm cell. 3,022,244, 2–20–62, Cl. 204—266.
Leblanc, Conrad L., and J. E. Crane, to Foster Grant Co., Inc. Method for simulated ornamentation. 3,041,764, 7–3–62, Cl. 41—10.
Le Blanc, Evans O.: *See*—
Loiacano, Leo L. 3,062,205.
Le Blanc, G., Corp.: *See*—
Hampel, Robert H. 3,064,516.
Pascucci, Vito. 3,048,262.
Le Blanc, Henry P., Jr. Apparatus for facilitating removing articles from a storage box. 3,062,405, 11–6–62, Cl. 221—77.
Le Blanc, Jacques J. J.: *See*—
Gangneux, Rene E. M., and Le Blanc. 3,066,134.
Le Blanc, Joseph H., Jr., to The American Pad & Textile Co. Life ring. 3,050,754, 8–28–62, Cl. 9—340.
Le Blanc, Robert B., to The Dow Chemical Co. Preparation of ferric chelates of alkylene amino acid compounds. 3,050,539, 8–21–62, Cl. 260—439.
Le Blond, R. K., Machine Tool Co., The: *See*—
Hermann, Otto. 3,035,468.
Kimsey, William A. 3,066,553.
Stratman, Millard F. 3,024,684.
Le Boeuf, Bernard P. Device for moulding cheese. 3,047,951, 8–7–62, Cl. 31—45.
Le Boucher, Bernard, to Institut Francais du Petrole des Carburants et Lubrifiants of Paris. Method of protecting metals against electrochemical corrosion of the acidic type. 3,062,612, 11–6–62, Cl. 21—2.5.
Le Boulch, Felix: *See*—
Cartier, Jean, and Le Boulch. 3,034,178.
Lebourg, Maurice P., to Schlumberger Well Surveying Corp. Perforating apparatus. 3,016,014, 1–9–62, Cl. 102—20.
Lebourg, Maurice P., to Schlumberger Well Surveying Corp. Perforating apparatus. 3,048,101, 8–7–62, Cl. 102—20.
Lebourg, Maurice P., to Schlumberger Well Surveying Corp. Perforating apparatus. 3,048,102, 8–7–62, Cl. 102—20.
Lebourg, Maurice P., and H. C. Fagan, to Schlumberger Well Surveying Corp. Perforating apparatus. 3,025,794, 3–20–62, Cl. 102—24.

Le Boutet, Hubert, and G. Vincent, to Compagnie Generale de Telegraphie Sans Fil. Travelling wave tube oscillator and electron accelerating device. 3,068,425, 12–11–62, Cl. 331—82.

Leboutet, Hubert P., and J. P. Pinel, to Compagnie Generale de Telegraphie Sans Fil. Device for separating electrons in accordance with their energy levels. 3,031,596, 4–24–62, Cl. 315—3.5.

Le Boutillier, Arthur, and M. C. Stevens, to A. C. Cosson Ltd. Apparatus for treating a workpiece with a liquid. 3,039,-432, 6–19–62, Cl. 118—421.

Lebowitz, Samuel: *See*—
Tremer, Thomas E. 3,065,506.

Le Bras, Louis R., and D. F. Stahr, to Pittsburgh Plate Glass Co. Metallic tin as a catalyst in the preparation of polyesters by reaction of a polyol and a polycarboxylic acid. 3,055,867, 9–25–62, Cl. 260—75.

Le Bras, Louis R., and D. F. Stahr, to Pittsburgh Plate Glass Co. Tin salts as catalysts in forming polyesters. 3,057,824, 10–9–62, Cl. 260—75.

Le Bras, Louis R., and R. E. Park, to Pittsburgh Plate Glass Co. Low viscosity polymerized fatty acids polyester resins and method of making same. 3,068,254, 12–11–62, Cl. 260—407.

Lebre, Charles J. P. Clamping tongs for loads. 3,041,101, 6–26–62, Cl. 294—26.

Le Brun, George K., to National Refill Co., Inc. Filter. 3,047,-994, 8–7–62, Cl. 55—493.

Le Brusque, René J. N., to H. Ernault-Batignolles S.A. Pendulous templet holder. 3,020,791, 2–13–62, Cl. 82—14.

Le Brusque, René J. N., to H. Ernault-Batignolles. Reversing device for machine tool advance-retreat mechanisms of the pause-before-retreat type. 3,069,948, 12–25–62, Cl. 82—21.

Lebsanft, Kurt: *See*—
Edhofer, Georg, Hollerer, Lebsanft, and Schmidt. 3,028,-267.

Le Bus, Franklin L., Sr., to Lebus Royalty Co. Method for drilling well bores. 3,028,921, 4–10–62, Cl. 175—57.

Le Bus, Franklin L., Sr., J. J. Cox, and C. Ware, to Wash Overshot and Spear Engineers, Inc. Ball latch wash-over spear apparatus. 3,070,170, 12–25–62, Cl. 166—237.

Lebus Royalty Co.: *See*—
Le Bus, Franklin L., Sr. 3,028,921.

Lecat, Pierre. Device for preplasticization in injection presses. 3,040,382, 6–26–62, Cl. 18—30.

Lechat, Paul: *See*—
Charonnat, Raymond, Lechat, Chareton, and Boime. 3,031,457.

Le Chaude, Inc.: *See*—
Urdanoff, Howard D. 3,017,032.

Lechene, Leo L. Bristle assemblies for gutter brooms. 3,023,441, 3–6–62, Cl. 15—198.

Lechene, Leo L. Rotary power driven broom. 3,066,343, 12–4–62, Cl. 15—180.

Lecher, Charles T., Jr., to International Business Machines Corp. High speed shift register. 3,056,112, 9–25–62, Cl. 340—173.

Lecher, Hans Z., I. L. Mador, and C. D. Tonne, to National Distillers and Chemical Corp. Preparation of tertiary diamine derivatives of dimers of dienes. 3,062,888, 11–6–62, Cl. 260—583.

Lechler, Paul, Firma: *See*—
Kurz, Rainer. 3,039,859.

Lechner, Albert J.: *See*—
Barcellona, Joseph J., and Lechner. 3,026,071.

Lechner, Herbert. Conveyor arrangement for conveying emulsion carriers in strip or sheet form through at least one treatment device. 3,032,247, 5–1–62, Cl. 226—173.

Lecis, Piero, and A. Guidi, to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Process for production of alumina from bauxite and other aluminous material, by pyrogenic attack, in agglomeration plants, either under suction or pressure. 3,057,683, 10–9–62, Cl. 23—141.

Lecker, Paul J.: *See*—
Crosby, Alton L., and Lecker. 3,045,104.

Leckner, Russell E. Stretch forming machine. 3,033,266, 5–8–62, Cl. 153—32.

Leclabart, Jean. Strand package. 3,034,195, 5–15–62, Cl. 28—78.

Leclabart, Jean. Heated sleeve for hair curls. 3,049,131, 8–14–62, Cl. 132—36.

Le Claire, Harry W.: *See*—
Foote, Francis S., Jr., and Le Claire. 3,052,363.

Le Clear, Robert L., and M. B. and R. Sleeper, to T & S Equipment Co. Automatic dockboard. 3,021,545, 2–20–62, Cl. 14—71.

Le Clerc, Louis G.: *See*—
Sejournet, Jacques, and Le Clerc. 3,039,888.

Le Clerc, Pierre G., to Compagnie de Saint-Gobain. Method and apparatus for the measurement of a flux of neutrons. 3,065,345, 11–20–62, Cl. 250—83.1.

Leclercq, Rene, and J. Colle, to UCB (Union Chimique-Chemische Bedrijven) S. A. Water proofing emulsion containing a hydrogen silicone and a catalyst and method of waterproofing therewith. 3,058,936, 10–16–62, Cl. 260—29.2.

Le Clercq, Leon J.: *See*—
Anderson, William D., Brandt, Le Clercq, and Fargo. 3,016,598.

Lecluyse, Edouard: *See*—
Quinche, Albert, and Lecluyse. 3,052,926.

Lécolle, André: *See*—
Iapella, Arnaldo, Lécolle, and Ducimetiere. 3,016,692.

Le Comte, Corstaan, to North American Philips Co., Inc. Indicating system comprising a cathode ray tube. 3,061,-753, 10–30–62, Cl. 313—84.

Le Corre, Jean P.: *See*—
Benmussa, Henri, and Le Corre. 3,053,935.
Benmussa, Henri, Le Corre, and Weill. 3,056,038.
Touraton, Emile, and Le Corre. 3,049,593.

Ledbetter, Robert P. Multiple trace recorder with trace identifier. 3,042,922, 7–3–62, Cl. 346—45.

Leddy, James J.: *See*—
Schechter, Dale L., and Leddy. 3,069,235.

Leddy, James J., and D. L. Schechter, to The Dow Chemical Co. Pressure leaching of titaniferous material. 3,060,002, 10–23–62, Cl. 23—202.

Lederberg, Philip M.: *See*—
Joss, Ira, Lederberg, and Silson. 3,033,213.

Lederer, Albert H. Tool for removing oil filters and the like. 3,043,171, 7–10–62, Cl. 81—90.

Lederer, Ernest A., and C. F. Miller, to Westinghouse Electric Corp. Electron discharge device. 3,037,834, 6–5–62, Cl. 316—19.

Lederer, Michael: *See*—
Weissermel, Klaus, and Lederer. 3,030,386.
Weissermel, Klaus, and Lederer. 3,054,826.

Lederer, Weil S., to United States of America, Navy. Step function pressure calibrator. 3,034,332, 5–15–62, Cl. 73—4.

Lederle, Henry F.: *See*—
Petropoulos, John C., and Lederle. 3,021,363.

Lederman, Burton E., and N. J. Capron, to Pennsalt Chemicals Corp. Preparation of resins. 3,053,807, 9–11–62, Cl. 260—57.

Ledex, Inc.: *See*—
Smith, Olin K. 3,027,772.

Ledford-Todd Corp.: *See*—
Morgan, Hugh L. 3,062,490.

Ledig, Albert W.: *See*—
Hitchings, George H., Ledig, and West. 3,037,980.

Ledin, Carl W.: *See*—
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Fuller, Harrison W., Woodsum, Darou, and Ledin. 3,079,319.

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D'Amato, Vitangelo. 3,054,789.

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Ledoux, Trellie J. Casting line container. 3,033,360, 5–8–62, Cl. 206—52.

Ledwith, Walter A., to United Aircraft Corp. Rocket fuel system. 3,028,729, 4–10–62. Cl. 60—35.6.

Ledwith, Walter A., to United Aircraft Corp. Thrust control for solid rocket. 3,031,842. 5–1–62, Cl. 60—35 6.

Ledwith, Walter A., to United Aircraft Corp. Swiveling nozzle for solid rocket. 3,040,516, 8–7–62, Cl. 60—35.55.

Ledwith, Walter A., to United Aircraft Corp. Booster means for a ramjet-rocket device. 3,063,240, 11–13–62, Cl. 60—35.6.

Ledwith, Walter A., to United Aircraft Corp. Missile interstage separating device. 3,070,015, 12–25–62, Cl. 102—49.

Ledwith, Walter A., and P. D. Newcomb, to United Aircraft Corp. Rocket nozzle with directional control. 3,069,850, 12–25–62, Cl. 60—35.54.

Lee, Arnold S. J.: *See*—
Cooper, Irving S., and Lee. 3,053,256.

Lee, Arnold S. J., to Invengineering, Inc. Non-rebreathing valve for gas administration. 3,036,584, 5–29–62, Cl. 137—64.

Lee, Arnold S. J., to Invengineering, Inc. Intermittent positive pressure respirator. 3,045,668, 7–24–62, Cl. 128—29.

Lee, Arthur L., to Consolidation Coal Co. Drive means for a mine haulage vehicle. 3,035 655, 5–22–62, Cl. 180—45.

Lee, Arthur L., to Consolidation Coal Co. Mine haulage vehicle. 3,067,830, 12–11–62. Cl. 180—45.

Lee, Arthur L., and A. B. Coval, to Consolidation Coal Co. Cooled brake, 3,038,564, 6–12–62, Cl. 188—264.

Lee, Arthur L., and A. B. Coval, to Consolidation Coal Co. Fluid operated clutch. 3,047,115, 7–31–62, Cl. 192—85.

Lee, Arthur L., and A. B. Coval, to Consolidation Coal Co. Constant mesh transmission. 3,064,488, 11–20–62, Cl. 74—360.

Lee, Arthur L., and A. B. Coval, to Consolidation Coal Co. Rail car suspension system. 3,067,698, 12–11–62, Cl. 105—364.

Lee, Bock W., to Bell Telephone Laboratories, Inc. Transistor multivibrator circuit. 3,046,493, 7–24–62. Cl. 331—111.

Lee, Bock W., to Bell Telephone Laboratories, Inc. Self-correcting ring counter. 3,051,855, 8–28–62, Cl. 307—88.5.

Lee Bros. Co.: *See*—
Lee, Robert E. 3,035,516.

Lee, Burton D.: *See*—
Walker, Hugh O., Jr., Press, and Lee. 3,047,965.

Lee. Burton D., to Texaco Inc. Geophysical exploration. 3,050,148, 8–21–62. Cl. 181—.5.

Lee, Burton D., to Texaco Inc. Method and apparatus for data processing. 3,063,034, 11–6–62, Cl. 340—15.

Lee, Burton D., and S. L. Wilkinson, to Texaco Inc. Method and apparatus for analyzing a reproducible seismic record. 3,040,294, 6–19–62, Cl. 340—15.5.

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Dacey, George C., Lee, and Shockley.

Lee, Charles A., to Kimberly-Clark Corp. Flow control apparatus. 3,028,298, 4–3–62, Cl. 162—214.

Lee, Charles A., to Huyck Corp. Papermaking machine. 3,041,235, 6–26–62, Cl. 162—210.

Lee, Charles A., to Bell Telephone Laboratories, Inc. Negative resistance semiconductor device. 3,054,972, 9–18–62, Cl. 331—115.

Lee, Charles A., to Kimberly-Clark Corp. Papermaking machine. 3,066,731, 12–4–62, Cl. 162—289.

Lee, Charles H., to General Motors Corp. Narrow pillar vehicle door latch. 3,033,602, 5–8–62, Cl. 292—280.

Lee, Charles H., to General Motors Corp. Door latch with rotatable bolt. 3,062,576, 11–6–62, Cl. 292—280.

Lee, Charles M., to Eastman Kodak Co. Automatic exposure control for photographic cameras. 3,035,503, 5–22–62, Cl. 95—64.

Lee, Charles M., R. E. Guenther, and H. Nerwin, to Eastman Kodak Co. Automatic exposure control for photographic cameras. 3,027,818, 4–3–62, Cl. 95—10.

Lee, Curtis M.: *See*—
Saidel, William R., Selock, and Lee. 3,053,152.

Lee, Don N., to Ampex Corp. Load-driving circuit. 3,054,905, 9–18–62, Cl. 307—88.

Lee, Donald H., to Burroughs Corp. Code typer. Re. 25,235, 9–4–62, Cl. 178—79.

Lee, Donovan H. Improvements in and relating to stressed concrete slab structures such as airfield runways and the like. 3,057,270, 10–9–62, Cl. 94—22.

Lee, Edwin C., to International Standard Electric Corp. Electrical field for high voltage cables. 3,051,771, 8–28–62, Cl. 174—36.

Lee, Edwin S., III, to Burroughs Corp. Magnetic toggle. 3,044,044, 7–10–62, Cl. 340—174.

Lee Engineering Co.: *See*—
Gambardella, Carmine J. 3,029,861.
Gambardella, Carmine J. 3,029,862.
Gambardella, Carmine J. 3,049,159.

Lee, Eward P.: *See*—
Yermakoff, Edward A., Elsesser, and Lee. 3,061,169.

Lee Fashions, Inc.: *See*—
Berkow, Melvin. 3,065,946.

Lee, Filemon T. Support and stripper for cutter head in a paper shredding machine. 3,033,064, 5–8–62, Cl. 83—114.

Lee Foundation For Nutritional Research: *See*—
Lee, Royal. 3,069,577.

Lee, Francis F., to Radio Corp. of America. Reversible code converter. 3,016,422, 1–9–62, Cl. 178—26.

Lee, Glyn E., and W. R. Wragg, to May & Baker Ltd. Certain di-lower alkyl amino lower alkyl-polymethylated tetrahydropyridines and salts thereof. 3,060,143, 10–23–62, Cl. 260—294.8.

Lee, Henry L., Jr., and K. O. Neville. Epoxy carboxylic acid dianhydride compositions. 3,025,263, 3–13–62, Cl. 260—47.

Lee, Herbert P. C.: *See*—
Hyman, Julius, and Lee. 3,065,277.

Lee, Imsong, and R. Waxman, to International Business Machines Corp. Current driver circuit. 3,065,358, 11–20–62, Cl. 307—88.

Lee, James and Sons Co: *See*—
Reid, Ralph T. 3,019,593.

Lee, James A., to The Plessey Co. Ltd. Disc-record playing apparatus. 3,048,407, 8–7–62, Cl. 274—23.

Lee, John: *See*—
Gardner, Thomas S., Lee, and Wenis. 3,053,848.
Gardner, Thomas S., Lee, and Wenis. 3,065,225.
Waters, Rolland M., and Lee. 3,050,547.

Lee, John A., ski binding with safety release. 3,039,782, 6–19–62, Cl. 280—11.35.

Lee, John G., to United Aircraft Corp. Low drag submarine. 3,041,992, 7–3–62, Cl. 114—16.

Lee, John G., to United Aircraft Corp. Helicopter anti-torque device. 3,059,877, 10–23–62, Cl. 244—17.19.

Lee, John G., and D. S. Jenney, to United Aircraft Corp. Helicopter with jet driven blades. 3,032,120, 5–1–62, Cl. 170—135.4.

Lee, John M.: *See*—
Gardner, Thomas S., Lee, Kinkelstein, and Wenis. 3,042,721.
Gardner, Thomas S., Lee, and Wenis. 3,047,581.

Lee, John M., and J. F. Albrecht, Jr., to The Dow Chemical Co. Wood treatment. 3,029,163, 4–10–62, Cl. 117—118.

Lee, Joy K. Musical training chair. 3,059,608, 10–23–62, Cl. 116—67.

Lee, Lieng-Huang, and H. Keskkula, to The Dow Chemical Co. Silane terminated polycarbonates. 3,026,298, 3–20–62, Cl. 260—47.

Lee, Lieng-Huang, and H. Keskkula, to The Dow Chemical Co. Fluoro-alcohol terminated polycarbonates. 3,036,040, 5–22–62, Cl. 260—47.

Lee, Luther E. Combination valve. 3,027,907, 4–3–62, Cl. 137—107.

Lee, Maurice F., K. J. Brondyke, and P. D. Hess, to Aluminum Co. of America. Chloridizing aluminum. 3,025,155, 3–13–62, Cl. 75—68.

Lee, Maurice W. Pressure cooker and smoker. 3,029,724, 4–17–62, Cl. 99—260.

Lee, Norman, to The Keelavite Co. Ltd. Hydraulic power transmission apparatus. 3,057,162, 10–9–62, Cl. 60—53.

Lee, Perry A.: *See*—
Lee, Raymond H., and P. A. 3,062,243.

Lee, Ralph E., and J. F. Eckelaert, to The Trane Co. Heat exchange units. 3,017,160, 1–16–62, Cl. 257—137.

Lee, Raymond H. and P. A. Spring stabilizer. 3,062,243, 11–6–62, Cl. 189—279.

Lee, Richard C., F. B. Cox, and M. E. Connelly, to United States of America, Navy. Pulsed analog computer. 3,037,-699, 6–5–62, Cl. 235—154.

Lee, Richard J., and J. F. Golner. Shotgun shell reloading tools. 3,053,132, 9–11–62, Cl. 86—25.

Lee, Richard T.: *See*—
Wyner, Gerald E., and Lee. 3,054,184.

Lee, Robert A., and E. W. Brinkman, to Davenport Machine Tool Co., Inc. Wire case carrier for a screw machine. 3,022,691, 2–27–62, Cl. 82—38.

Lee, Robert A., and K. W. Olson, to The Bendix Corp. Cold cathode discharge device. 3,047,764, 7–31–62, Cl. 313—220.

Lee, Robert C., and J. J. Yostpille, to Bell Telephone Laboratories, Inc. Signal pulse detector and register. 3,027,550, 3–27–62, Cl. 340—174.1.

Lee, Robert C. K., and A. L. Ljungwe, to Minneapolis-Honeywell Regulator Co. Automatic control apparatus for aircraft. 3,030,054, 4–17–62, Cl. 244—77.

Lee, Robert E.: *See*—
Schwetzer, William K., Jr., Lee, Jones, and Lang.

Lee, Robert E. Exhaust pipe attachment. 3,035,505, 5–22–62, Cl. 98—60.

Lee, Robert E., to Lee Bros. Co. Stencil device. 3,035,516, 5–22–62, Cl. 101—125.

Lee, Robert H.: *See*—
Morgan, Julius S., and Lee. 3,045,126.

Lee, Robert J.: *See*—
May, Paul D., and Lee. 3,025,327.
McAlister, Charles G., Lee, and Knight. 3,053,869.
Kirkland, Earl V., Lee, and Smith. 3,058,942.

Lee, Robert M.: *See*—
Dinsmore, Stanley H., and Lee. 3,017,463.

Lee, Robert M., to The Bendix Corp. Magnetic circuit. 3,056,-948, 10–2–62, Cl. 340—174.

Lee, Robert S., to International Harvester Co. Mold composition cure accelerator. 3,032,426, 5–1–62, Cl. 106—38.35.

Lee, Roger K., Jr., and W. J. Gorman, to Laboratory For Electronics, Inc. Magnetic disc storage device. 3,060,433, 10–23–62, Cl. 340—174.

Lee-Rowan Co.: *See*—
Meyer, Lawrence J. 3,051,518.

Lee, Royal. Electric motors and stators therefor. 3,052,806, 9–4–62, Cl. 310—198.

Lee, Royal, to Lee Foundation For Nutritional Research. Disc rotor for induction motor. 3,069,577, 12–18–62, Cl. 310—166.

Lee Rubber & Tire Corp.: *See*—
McCormick, Clarence E. 3,020,701.
McCormick, Clarence E. 3,043,585.

Lee, Shih-Ying. Fluid flow controller. 3,044,480, 7–17–62, Cl. 137—7.

Lee, Terry G., and A. J. Sievers, to Eitel-McCullough, Inc. Travelling wave amplifier. 3,070,725, 12–25–62, Cl. 315—3.5.

Lee, Thomas H., to General Electric Co. Vacuum-type circuit interrupter. 3,038,980, 6–12–62, Cl. 200—144.

Lee, Warren G., and R. E. Millito, to General American Transportation Corp. Processes of chemical nickel plating of amphoteric and like materials. 3,029,158, 4–10–62, Cl. 117—50.

Lee, William H. Sensing and control circuit. 3,026,461, 3–20–62, Cl. 318—229.

Lee, William H. Alternating current drive and control. 3,039,034, 6–12–62, Cl. 318—48.

Lee, William M., to Pennsalt Chemicals Corp. Cement composition. 3,024,125, 3–6–62, Cl. 106—287.

Lee, William W.: *See*—
Duncan, Garnett C., Lee, Lucero, and Redding. 3,040,629.

Lee, Yih-Hung. Noise maker. 3,062,540, 11–6–62, Cl. 272—27.

Lee, Yoon Chai: *See*—
Tiefenthal, Harlan E., and Lee. 3,030,342.

Lee, Yoonsik, to Commercial Solvents Corp. Preparation of nitrocyclohexane. 3,066,173, 11–27–62, Cl. 260—644.

Leebrick, John R., to Metal & Thermit Corp. Stabilized stannous carboxylates. 3,032,571, 5–1–62, Cl. 260—429.7.

Leece-Neville Co., The: *See*—
Hallidy, William M. 3,026,465.

Leeco Chemical Co.: *See*—
Rapport, Arthur. 3,070,492.

Leeco Gas and Oil Co.: *See*—
Rapport, Arthur. 3,070,492.

Leeder, Harry A., Jr., to R. E. Dietz Co. Oscillator circuit with power transistor output stage. 3,022,467, 2–20–62, Cl. 331—74.

Leedom, Harry, to Octagon Development Corp. Steering-by-driving organization for wheeled tractors. 3,052,311, 9–4–62, Cl. 180—6.66.

Leeds, Harry R., to S. C. Johnson & Son, Inc. Microporous synthetic resin material. 3,055,297, 9–25–62, Cl. 101—327.

Leeds, Laurance M., to General Electric Co. Modulator. 3,029,399, 4–10–62, Cl. 332—44.
Leeds, Morton W.: *See*—
Davidowich, George, and Leeds. 3,070,635.
Leeds and Northrup Co.: *See*—
Davis, Frederick B, 3rd. 3,059,853.
Davis, Raymond L., II. 3,058,815.
Eckfeldt, Edgar L., and Kuczynski. 3,025,458.
Eckfeldt, Edgar L., and Kuczynski. 3,025,459.
Eckfeldt, Edgar L., and Kuczynski. 3,054,047.
Eynon, James U. 3,051,898.
Finch, Donald I., Korostoff, and Pollock. 3,017,269.
McAdam, Wild, and Moore. 3,045,155.
Mead, Harold G. 3,038,951.
Moore, Philemon J. 3,024,295.
Parker, Kenneth B., Jr. 3,048,642.
Paschkis, Albert E. 3,060,430.
Polster, Norman E. 3,017,560.
Robertson, Donald, and Ross. 3,055,961.
Williams, Albert J., Jr. 3,017,561.
Williams, Albert J., Jr. 3,050,675.
Leeds, Sherwood: *See*—
Tarbox, Albert E., and Leeds. 3,021,270.
Leeds, Winthrop M., to Westinghouse Electric Corp. Compressed-gas circuit interrupter. 3,043,940, 7–10–62, Cl. 200—148.
Leeds, Winthrop M., to Westinghouse Electric Corp. Circuit interrupter. 3,060,294, 10–23–62, Cl. 200—148.
Leeds, Winthrop M. and H. J. Lingal, to Westinghouse Electric Corp. Circuit interrupters. 3,045,086, 7–17–62, Cl. 200—148.
Leeford (London) Ltd.: *See*—
Morrison, Percival H., and Packman. 3,019,923.
Leek, Nathaniel L. Multiplex television system. 3,061,669, 10–30–62, Cl. 178—6.3.
Leek, Wayne E., and C. H. Morse, to Remington Arms Co., Inc. Firearm having receiver bearing surfaces of synthetic resinous material. 3,023,527, 3–6–62, Cl. 42—71.
Leeman, Jan N. J., to Stamicarbon N.V. Apparatus for separating mixtures of solid particles. 3,016,144, 1–9–62, Cl. 209—172.5.
Leemhuis, Paul L.: *See*—
Rasch, Royal H., Leemhuis, and Sutton. 3,069,310.
Leenhouts, Albert C.: *See*—
Ross, Raymond W. 3,035,446.
Schneider, Henri W., and Leenhouts. 3,043,991.
Schneider, Henri W., and Leenhouts. 3,052,826.
Leeper, James W., to The Yale and Towne Mfg. Co. Ram truck. 3,033,402, 5–8–62, Cl. 214—731.
Leeper, Walter S., to Harbison-Walker Refractories Co. Brick hanger tab bending apparatus. 3,049,165, 8–14–62, Cl. 153—25.
Lees, Gale W., and E. D. McCormick, to United States of America, Atomic Energy Commission. Tripping circuit. 3,035,996, 5–22–62, Cl. 204—193.3.
Lees, Gerald M. Ice making machines. 3,058,319, 10–16–62, Cl. 62—348.
Lees, Gerald M., deceased, by M. T. Lees, administratrix. Flake-ice making machines. 3,069,868, 12–25–62, Cl. 62—347.
Lees, James, and Sons Co.: *See*—
Batty, Harry A., Eiser, and Ellington. 3,049,152.
Fancher, Peter C. 3,049,225.
Gebert, Russell C. 3,025,807.
McClure, Thomas V., and McNutt. 3,064,328.
Nowicki, Henry F., and Smiley. 3,034,541.
Smith, John E. 3,020,863.
Lees, Madlyn T.: *See*—
Lees, Gerald M. 3,069,868.
Lees, Ray F. to E. I. du Pont de Nemours and Co. Melt spinning apparatus. 3,061,874, 11–6–62, Cl. 18—8.
Lees, Roland J.: *See*—
Griffith, Alan A., Lees, Shaw, and Willmer. 3,047,256.
Lees, Sidney. Rotary viscous damper. 3,045,780, 7–24–62, Cl. 188—90.
Lees, Sidney. Viscous damper. 3,045,781, 7–24–62, Cl. 188—97.
Leeser, H. Edgar. Time recording device and card therefor. 3,019,074, 1–30–62, Cl. 346—85.
Leeson, Albert E. Rail spike puller. 3,066,913, 12–4–62, Cl. 254—18.
Leeson, James L., Jr., to Warner Electric Brake & Clutch Co. Control for a plurality of load devices. 3,030,554, 4–17–62, Cl. 317—149.
Leeson, James L., Jr., and P. F. Smith, to Warner Electric Brake & Clutch Co. Selective energization of a plurality of load devices by bi-state controls. 3,069,600, 12–18–62, Cl. 317—148.5.
Leeson, Lewis J.: *See*—
Weidenheimer, Joseph F., and Leeson. 3,027,366.
Leeson, Lewis J., J. A. Lowery, and C. Krieger, to American Cyanamid Co. Method of preparing 21-monoesters of steroids of the pregnane series. 3,054,810, 9–18–62, Cl. 260—397.45.
Leesona Corp.: *See*—
Barnes, Porter I., Jr. 3,016,205.
Goodhue, William V., and Higgins. 3,044,722.
Keith, John V. 3,048,343.
Lieb, Harry C. 3,065,289.
Lieb, Harry C., and De Rosa. 3,038,953.
Lieb, Harry C., and Wallack. 3,069,571.
Martin, James R. 3,069,104.
Leesona Corp.: *See*—Continued
Medina, Victor E. 3,053,741.
Moos, Anthony M. 3,040,115.
Northup, Joseph A., Jr., and Walden. 3,027,107.
O'Brien, William H. 3,045,935.
O'Brien, William H., and Pitts. 3,045,946.
Pitts, Thomas E. 3,055,604.
Pitts, Thomas E., and Steele. 3,048,349.
Stoddard, Nicholas J., and Seem. 3,025,659.
Tata, Raymond V. 3,048,342.
Leesona Holt Ltd.: *See*—
Brierley, Edgar, and Norris. 3,053,222.
Leet, Richard H.: *See*—
Traise, Thornton P., and Leet. 3,052,633.
Leete, Harley M.: *See*—
Ribbens, Jacob J., Leete, and Foote. 3,022,595.
Leete, Leland L. Valve connection. 3,029,831, 4–17–62, Cl. 137—360.
Lefcort, Martin. Compartmented beverage container. 3,039,644, 6–19–62, Cl. 220—20.
Le Febvre, Alfred L., A. O. Johnson, and E. H. Fuller, to Stanley Home Products, Inc. Brush construction. 3,032,796, 5–8–62, Cl. 15—205.
Lefebvbre, Arthur H., R. J. Rice, and J. V. Tindale, to Rolls-Royce Ltd. By-pass gas turbine engine employing reheat combustion. 3,043,101, 7–10–62, Cl. 60—35.6.
Lefebvre, Arthur H., and G. A. Halls, to Rolls-Royce Ltd. Gas turbine engine combustion equipment including multiple air inlets and fuel injection means. 3,055,179, 9–25–62, Cl. 60—39.65.
Lefebvre, Fredrick L. Plate heater. 3,047,702, 7–31–62, Cl. 219—19.
Lefever Robert A., to Texaco Inc. Method for preparing cubic nickel single crystals. 3,034,888, 5–15–62, Cl. 75—82.
Le Fevre, Dale A.: *See*—
Kent, Earle L., and Le Fevre. 3,022,697.
Lefevre, Leonard J., to The Dow Chemical Co. Separation of fructose from glucose using cation exchange resin salts. 3,044,905, 7–17–62, Cl. 127—46.
Lefevre, Leonard J., to The Dow Chemical Co. Separation of fructose from glucose using a cation exchange resin salt. 3,044,906, 7–17–62, Cl. 127—46.
Lefevre, Lloyd E., to The Dow Chemical Co. Fabric cutting tool. 3,018,550, 1–30–62, Cl. 30—140.
Le Fevre, Walter J., and D. F. Sheetz, to The Dow Chemical Co. Sulfo esters of α-methylene carboxylic acids. 3,024,221, 3–6–62. Cl. 260—79.3.
Le Fevre, Walter J., and D. P. Sheetz, to The Dow Chemical Co. Hydrophilic interpolymers of polymerizable ethylenically unsaturated compounds and sulfo esters of α-methylene carboxylic acids. 3,033,833 5–8–62, Cl. 260—79.3.
Leff, Albert. Fabric spreading and bias binding strip cutting device. 3,026,599, 3–27–62, Cl. 29—2.16.
Leffan, William H.: *See*—
Matusky, Steve M., Gustafson, and Leffan. 3,025,997.
Lefferdink, Theodore B.: *See*—
Murdock, Stanley A., Traylor, and Lefferdink. 3,026,287.
Murdock, Stanley A., Traylor, and Lefferdink. 3,026,288.
Murdock, Stanley A., Traylor, and Lefferdink. 3,036,033.
Leffingwell, Wallace B., and H. G. Evans, to Sharon Steel Corp. Method of annealing type 430 stainless steel. 3,067,072, 12–4–62, Cl. 148—12.
Leffler, Dean E., and D. L. Greenwood, to General Motors Corp. Independent wheel suspension and bearing construction therefor. 3,028,173, 4–3–62, Cl. 280—96.2.
Leffler Gustav A., to Installationsfirma Allan Leffler. Controlling motor for mechanical setting of regulating members in regulating systems. 3,025,446, 3–13–62, Cl. 318—467.
Leffler, Marjorie B. Adjustable table. 3,021,184, 2–13–62, Cl. 311—68.
Leffler, Nils G., to Sunds Verkstader Aktiebolag. Towers for bleaching pulp material, especially cellulose pulp. 3,053,068, 9–11–62, Cl. 68—181.
Leffler, Nils G., to Sunds Verkstader Aktiebolag. Towers for bleaching pulp material, especially cellulose pulp. 3,053,069, 9–11–62, Cl. 68—181.5.
Leffler, William R., ½ to A. Lehman. Bowling shoes. 3,031,777, 5–1–62, Cl. 36—2.5.
Le Fiell, Cecil K. Tube tapering machine. 3,019,678, 2–6–62, Cl. 80—14.
Le Fiell, Cecil K. Tube tapering machine. 3,041,990, 7–3–62, Cl. 113—35.
Lefkowitz, Issai, to Gulton Industries, Inc. Dielectric generator. 3,024,371, 3–6–62, Cl. 307—110.
Le Flem, Leon and J. Jouin, to Commissariat a L'Energie Atomique. Manipulating apparatus. 3,036,966, 5–29–62, Cl. 204—193.2.
Lefler, George F.: *See*—
Moore, Harry O. 3,055,105.
Lefner, Delvin J.: *See*—
Pistole, Harry, Rike, Terrel, and Lefner. 3,055,339.
Lefort, Daniel: *See*—
Paquot, Charles, Lefort, and Sorba. 3,020,320.
Lefrancois, Bernard: *See*—
Delassus, Marcel, Lefrancois, and Vanlscotte. 3,055,732.
Le Gargasson, Georges: *See*—
Brasseur, Bernard, Le Gargasson, and Perilhou. 3,046,098.
Legator, Marvin: *See*—
Rader, William E., and Legator. 3 044 884.
Racusen, David W., and Legator. 3,052,598.

Legatski, Harold R., to Phillips Petroleum Co. Mining and extraction of ores. 3,034,773, 5–15–62, Cl. 262—2.

Legatski, Theodore W., to Phillips Petroleum Co. Purification of liquefied petroleum gases. 3,051,649, 8–28–62, Cl. 208—299.

Legendre, Cyrille. Manhole closure. 3,046,853, 7–31–62, Cl. 94—34.

Le Gendre, Victor J., to International Telephone and Telegraph Corp. Direct viewing storage tube. 3,066,234, 11–27–62, Cl. 313—68.

Leger, Ernest E.: *See*—
Dailey, John L. S., and Leger. 3,068,312.

Legg, Glen J., ½ to R. W. Evans. Vehicle marker. 3,036,545, 5–29–62, Cl. 116—28.

Legg, Norman: *See*—
Heslop, Robert N., Legg, Mawson, Stephen, and Wardleworth. 3,042,475.

Legge, Walter G. Body grounding devices. 3,015,754, 1–2–62, Cl. 317—2.

Legion Utensils Co., Inc.: *See*—
Scavullo, Angelo C. 3,034,499.
Scavullo, Angelo C. 3,065,744.

Legler, Bobby, to The Dow Chemical Co. Epoxy resin composition. 3,047,537, 7–31–62, Cl. 260—47.

Lego, Hal G. Christmas tree holder. 3,058,707, 10–16–62, Cl. 248—46.

Lego, John H., to International Business Machines Corp. Combined comparator and indicator. 3,037,687, 6–5–62, Cl. 234—34.

Le Goff, Loman H. Bowling bag. 3,054,435, 9–18–62, Cl. 150—52.

Legrand, Jean. Electrified fences. 3,051,449, 8–28–62, Cl. 256—10.

Legrand, Pierre, to Foster Wheeler Francaise, Societe. Heat exchanger. 3,036,818, 5–29–62, Cl. 257—246.

Legris, William L. Rotatable shank, slidable inner jaw wrench. 3,046,821, 7–31–62, Cl. 81—164.

Legros, Josef: *See*—
Billen, Peter, Dicks, and Legros. 3,054,283.

Legros, Robert G. Automatic variable ratio transmission device for vehicles and other applications. 3,035,459, 5–22–62, Cl. 74—796.

Leguillon, Charles W. X-ray protective shields. 3,045,121, 7–17–62, Cl. 250—108.

Lehan, Frank W.: *See*—
Newberry, Alvin W., and Lehan. 3,064,238.

Lehan, Frank W., R. W. Sanders, and A. W. Newberry, to Space-General Corp. Telemetry system. 3,030,614, 4–17–62, Cl. 340—204.

Lehan, Frank W., and W. R. Hughes, to Space-General Corp. Electronically scanning antenna employing plural phase-locked loops to produce optimum directivity. 3,036,210, 5–22–62, Cl. 250—6.

Lehan, Frank W., R. W. Sanders, and A. W. Newberry, to Space-General Corp. Synchronizing network. 3,063,017, 11–6–62, Cl. 328—55.

Lehan, Frank W., and G. L. Brown, to Space-General Corp. Discovery and location system. 3,063,048, 11–6–62, Cl. 343—112.

Lehde, John W., Jr., to Scully-Jones and Co. Adjustable tap stop means for limiting depth of threading. 3,017,643, 1–23–62, Cl. 10—129.

Leheup, Harry: *See*—
Sherlaw, William, and Leheup. 3,057,154.

Lehigh Inc.: *See*—
Crannell, Richard W. 3,028,148.

Lehigh Industries, Inc.: *See*—
Block, Charles, and Mintz. 3,033,728.

Lehman, Al.: *See*—
Leffler, William R. 3,031,777.

Lehman, Anne: *See*—
Frazer, Samuel. 3,040,802.

Lehman, Ellis R.: *See*—
Casey, James P., and Lehman. 3,015,572.

Lehman, Eugene J., to McGraw-Edison Co. Terminal connector and guard assembly. 3,021,502, 2–13–62, Cl. 339—202.

Lehman, Glenn C.: *See*—
Parker, Ernest G., and Lehman. 3,054,106.

Lehman, Harry W., to Collins Radio Co. Shaft positioning means. 3,067,633, 12–11–62, Cl. 74—815.

Lehman, Robert A., to Campbell Pharmaceuticals, Inc. Water soluble composition of lipoid soluble vitamins. 3,036,957, 5–29–62. Cl. 167—81.

Lehman, Roger. Conversion internal combustion engine for use as a marine engine. 3,015,324, 1–2–62. Cl. 123—122.

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Lehmann, Emil W., and F. P. Finlon, to United States of America, Navy. Phase shifting device. 3,065,403, 11–20–62, Cl. 323—122.

Lehmann, Ernest, and S. C. Yuter. Aircraft towing or transporting vehicle. 3,038,550, 6–12–62, Cl. 180—14.

Lehmann, Ernest H., and W. D. Wright, to Xerox Corp. Image projection. 3,051,041, 8–28–62, Cl. 88—24.

Lehmann, Guenther W. Cargo boom. 3,042,222, 7–3–62, Cl. 212—3.

Lehmann, René L.: *See*—
Gandon, Louis, Lehmann, and Marcheguet, and Tarbouriech. 3,028,340.

Lehmann, Sears, Jr.: *See*—
Averill, John R., and Lehmann. 3,062,022.

Lehmann, Willi, to Westinghouse Electric Corp. Method of processing electroluminescent phosphor and electroluminescent device. 3,040,201, 6–19–62, Cl. 313—108.

Lehmann, Willi, to Westinghouse Electric Corp. Electroluminescent cell and method. 3,040,202, 6–19–62, Cl. 313—108.

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Lehmann, Willi, and C. H. Haake, to Westinghouse Electric Corp. Electroluminescent cell. 3,048,732, 8–7–62, Cl. 313—108.

Lehmann, William L., and R. W. Runnels. Photovoltaic solar orienting device. 3,070,699, 12–25–62, Cl. 250—203.

Lehmann, Wolfgang: *See*—
Graulich, Wilhelm, Lehmann, Bayer, Kass, and Berlenbach. 3,062,686.
Rinke, Heinrich, Lehmann, and Schnell. 3,062,780.

Lehmkuhl, Herbert: *See*—
Ziegler, Karl, and Lehmkuhl. 3,069,334.

Lehn, Alfred, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Hexamethylene tetramine activated chlorite bleach. 3,050,359, 8–21–62, Cl. 8—108.

Lehnartz, Robert: *See*—
Kramer, Udo, Lehnartz, Schwerdtfeger, and Suchetzki. 3,052,286.

Lehner, Felix, to H. List. Engine-driven compressor unit. 3,065,900, 11–27–62, Cl. 230—56.

Lehner, William L.: *See*—
Helda, Robert W., and Lehner. 3,051,474.
Helda, Robert W., Lehner, and Walker. 3,015,881.

Lehnerer, Wolfgang, and H. Friederich, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Continuous polymerization of ethylene. 3,037,012, 5–29–62, Cl. 260—94.9.

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Lehnhard, Ruth C., to The Ruthie Saucy, Inc. Combination head covering and stole. 3,060,449, 10–30–62, Cl. 2—203.

Lehovec, Kurt, to Sprague Electric Co. Multiple semiconductor assembly. 3,029,366, 4–10–62, Cl. 317—101.

Lehovec, Kurt, to Sprague Electric Co. Preparation of a moated mesa and related semiconducting devices. 3,042,565, 7–3–62, Cl. 156—17.

Lehovec, Kurt, and D. M. Smyth, to Sprague Electric Co. Solid barrier electrolyte incorporating additive. 3,036,144, 5–22–62, Cl. 136—153.

Lehovec, Kurt, and G. A. Shirn, to Sprague Electric Co. Ceramic bodies. 3,061,461, 10–30–62, Cl. 117—106.

Lehr, Glen J.: *See*—
Ball, Alfred E., Lehr, and Kowalka. 3,027,607.

Lehr, Hanns H.: *See*—
Goldberg, Moses W., and Lehr. 3,052,706.

Lehr Mfg. Corp.: *See*—
Schlueter, Dennis H. and E. H. 3,043,629.

Lehrian, William R.: *See*—
Eld, Aksel C., and Lehrian. 3,027,145.
Eld, Aksel C., and Lehrian. 3,055,646.

Lehrmann, Leon, to Siemens-Schuckertwerke Aktiengesellschaft. System for measuring or indicating the three-phase power. 3,054,952, 9–18–62, Cl. 324—107.

Lehti, Henry A., W. A. Merck, and T. J. Rhodes, to United States Rubber Co. Method for making blown rubber. 3,030,623, 4–17–62, Cl. 18—59.

Leibach, Heinrich, to M.A.N.-Turbomotoren G.m.b.H. Propeller drive transmission for a gas turbine engine. 3,037,347, 6–5–62, Cl. 60—39.16.

Leibach, Heinrich G., to BMW Triebwerkbau G.m.b.H. Flight-propulsion power plant for aircraft with a jet device for assisting in short or vertical take-off. 3,035,790, 5–22–62, Cl. 244—12.

Leibing, William E. Fuel supply system for engine. 3,043,-573, 7–10–62. Cl. 261—41.

Leibinger, Berthold, to Messrs. Trumpf & Co. Nibbling machine. 3,025,600, 3–20–62, Cl. 30—241.

Leibinger, Berthold, to Messrs Trumpf & Co. Punch press. 3,058,380, 10–16–62. Cl. 83—410.

Leibowitz, Alec, to Rand Mines Ltd., A. Leibowitz, H. M. Husted, L. Sidersky, and K. N. Kisch. Method of and apparatus for the electrolytic extraction of gold from a gold-bearing solution. 3,063,921, 11–13–62, Cl. 204—110.

Leibreich, Norman A., to The Mead Corp. Machine for applying adhesive to the marginal surfaces of circular paperboard discs. 3,024,763, 3–13–62, Cl. 118—233.

Leibreich, Norman A., to The Mead Corp. Fiberboard drum and method of manufacture. 3,039,371, 6–19–62, Cl. 93—55.

Leibreich, Norman A., to The Mead Corp. Method and apparatus for producing a container. 3,057,265, 10–9–62, Cl. 93—39.1.

Leibrook, Walton V.: *See*—
Fasold, George A., and Leibrook. 3,045,395.

Leibson, Irvin, and H. G. Schutze, to Esso Research and Engineering Co. Polymer purification. 3,037,011, 5–29–62, Cl. 260—93.7.

Leibson, Irving: *See*—
Schutze, Henry G., Leibson, and Bown. 3,020,268.

Leihy, David W.: *See*—
Brown, Dale H., and Leiby. 3,022,235.

Leicester, John F.: *See*—
Slater, John M., Findley and Leicester. 3,029,646.

Leich Electric Co.: *See*—
Boswau, Hans P. 3,019,297.
Boswau, Hans P., and Clausen. 3,033,942.

Leichter, Robert J., to General Electric Co. Commutating transformer. 3,033,992, 5–8–62, Cl. 307—43.

Leidecker, Henry A.: *See*—
Schmidt, Robert F., and Leidecker. 3,024,485.
Schmidt, Robert F., and Leidecker. 3,037,226.

Leiderman, George J., to Nautec Corp. Mounting for a coin receptacle for a parking meter. 3,059,837, 10–23–62, Cl. 232—16.

Leidheiser, Henry, Jr., to American Can Co. Method of controlling crystal growth. 3,063,816, 11–13–62, Cl. 23—296.

Leigh, Albert: *See*—
Roxburgh, Albert, and Leigh. 3,017,482.
Roxburgh, Albert, Leigh, and Fellerman. 3,069,521.

Leigh, Leonard D., Jr. Control device for aircraft deicing apparatus. 3,058,305, 10–16–62, Cl. 60—39.9.

Leigh, Robert L., to Air Control Products, Inc. Folding doors and mounting fixtures therefor. 3,019,836, 2–6–62, Cl. 160—199.

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Leigh, Thomas: *See*—
Jones, William G. M., Leigh, and Madinaveitia. 3,035,-978.

Leigh, Thomas, to Imperial Chemical Industries Ltd. Alkyl and acyl ferrocenes. 3,036,106, 5–22–62, Cl. 260—439.

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Leightner, Robert A., to International Business Machines Corp. Three stable state count down device. 3,070,713, 12–25–62, Cl. 307—88.5.

Leighton, Geoffrey J.: *See*—
Alcock, Norman Z., and Leighton. 3,027,459.

Leighton, Lee: *See*—
Zetlin, Edward J., Leighton, and Gaon. 3,036,767.

Leighton, Thomes C., and M. Wright, to Hycon Mfg. Co. Rapid film processor. 3,060,829, 10–30 62, Cl. 95—89.

Lein, Joseph: *See*—
Gourevitch, Alexander, Chertow, and Lein. 3,042,582.
Hooper, Irving R., Farlig, and Lein. 3,061,516.
Schmitz, Henry, Hooper, Lein, and Heinemann. 3,060,099.

Lein, Joseph, and L. C. Cheney, to Beecham Research Laboratories, Ltd. Preparation of polyfluoroalkoxymethyl penicillins. 3,024,168, 3–6–62, Cl. 195—36.

Leinberger, Merton C.: *See*—
Trimble, Lyne S., Markakis, Nishball, and Leinberger. 3,017,234.

Leiner, Howard H.: *See*—
Bennetch, Leonard M., West, and Leiner. 3,017,283.
Feiler, Leonard, Gruben, and Leiner. 3,043,794.

Leineweber, James P.: *See*—
Vander Linden, Carl R., and Leineweber. 3,052,563.

Leinhos, Roland: *See*—
Haüpt, Eugen, Leinhos, Rilk, Schubart, and Wustemann. 3,033,079.

Leininger, Alfred E.: *See*—
Harms, William J., and Leininger. 3,059,962.

Leinkram, Charles Z.: *See*—
Belmont, Emanuel, and Leinkram. 3,028,529.
Belmont, Emanuel, and Leinkram. 3,041,509.

Leinkram, Charles Z., to The Bendix Corp. Semiconductor device. 3,019,142, 1–30–62, Cl. 148—1.5.

Leinkram, Charles Z., and H. G. Scholer, to The Bendix Corp. Cold weld semiconductor housing. 3,024,519, 3–13–62, Cl. 29—25.3.

Leins, Richard W., and W. R. Osban, to American Cyanamid Co. Apparatus for the fluid treatment of strands of elongated material. 3,037,369, 6–5–62, Cl. 68—5.

Leinweber, Clarence L., and H. E. Corbitt, to Aerojet-General Corp. Rocket propellant spark ignition system. 3,057,149, 10–9–62, Cl. 60—35.6.

Leis, Arthur F.: *See*—
Mayne, Robert A., and Leis. 3,021,591.

Leis, Donald G., and R. J. Knopf, to Union Carbide Corp. Process for improving polypropylene glycols. 3,028,433, 4–3–62, Cl. 260—615.

Leisen, Frederic A. Metal boat construction. 3,048,858, 8–14–62, Cl. 9—2.

Leisey, Frank A., to Standard Oil Co. Determination of solid flow rate. 3,033,036, 5–8–62, Cl. 73—194.

Leiss, Emil: *See*—
Johnson, Edward, and Leiss. 3,068,729.

Leisti, Aimo E. Device on a spoon-hook. 3,046,688, 7–31–62, Cl. 43—35.

Leistner, William E.: *See*—
Hecker, Arthur C., Knoepke, Leistner, and Pollock. 3,056,824.

Leistner, William E., O. H. Knoepke, and A. C. Hecker, to Argus Chemical Corp. Stabilizing polypropylene with organic-tin-mercapto compounds. 3,015,644, 1–2–62, Cl. 260—45.7.

Leistner, William E., and O. H. Knoepke, to Argus Chemical Corp. Prevention of odor formation in stabilization of polyvinyl chloride resins. 3,037,961, 6–5–62, Cl. 260—45.75.

Leiteritz, Robert G.: *See*—
Cull, Thomas F., and Leiteritz. 3,016,625.

Leith, Sandra J.: *See*—
Ducharme, Joseph J., Black, and Leith. 3,052,545.

Leithiser, George L., Jr. Cable tension booster. 3,037,720, 6–5–62, Cl. 242—155.

Leitl, George J. F.: *See*—
Sloane, William E., and Leitl. 3,020,109.

Leitner, Robert T., and J. E. Drake, to Technical Appliance Corp. Dipole antenna provided with gas-tight housing. 3,030,622, 4–17–62, Cl. 343—793.

Leitten, Carl F., Jr.: *See*—
Beaver, Richard J., and Leitten. 3,030,294.

Leitz, Ernest, Canada Ltd.: *See*—
Malinowski, Tadeusz. 3,049,972.

Leitz, Ernst A., and R. Eckhardt, to Ernst Leitz, Gesellschaft mit beschrankter Haftung. View finder. 3,029,720, 4–17–62, Cl. 95—44.

Leitz, Ernst, Gesellschaft mit beschrankter Haftung: *See*—
Bartels, Peter. 5,064,527.
Becker, Helmut, and Mees. 3,063,651.
Brömer, Heinz, and Meinert. 3,043,702.
Broschke, Heinrich. 3,037,436.
Broschke, Heinrich. 3,041,951.
Flach, Hans-Georg, and Sanger. 3,057,276.
Frenk, Helmüth. 3,020,816.
Kossel, Dierick. 3,043,976.
Leitz, Ernst A., and Eckhardt. 3,029,720.
Leitz, Ludwig, Broschke, and Sanger. 3,028,784.
Ludewig, Maximilian, and Stumpf. 3,062,100.
Mees, Robert. 3,057,230.
Mulch, Hans. 3,037,312.
Mulch, Hans. 3,067,535.
Muller, Helmut. 3,046,862.
Reichel, Artur. 3,020,794.
Schäfer, Wilhelm. 3,044,375.

Leitz, Ernst, G.m.b.H., Optische Werke: *See*—
Mulch, Hans. 3,029,692.

Leitz, Ludwig, H. Broschke, and O. Sanger, to Ernst Leitz G.m.b.H. Photographic exposure meters. 3,028,784, 4–10–62, Cl. 88—23.

Leitz, Sheldon: *See*—
Chait, Hyman. 3,031,038.

Leitzel, Ammon M., to Pacific Pulp Molding Co. Molded pulp packing tray. 3,040,923, 6–26–62, Cl. 217—26.5.

Leitzel, Ammon M., to Pacific Pulp Molding Co. Apparatus and method for making molded pulp articles having holes therethrough. 3,046,187, 7–24–62, Cl. 162—228.

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Leitzel, Ammon M., to Pacific Pulp Molding Co. Pulp molding suction die structure and method of making. 3,050,-115, 8–21–62, Cl. 162—411.

Leitzel, Ammon M., to Pacific Pulp Molding Co. Method of making a pattern for a die. 3,065,511, 11–27–62, Cl. 22—195.

Leja, Casimir E., to Komfort King Seats, Inc. Flexible seat support. 3,025,034, 3–13–62, Cl. 248—399.

Lejdegård, Sixten H., to Bultfabriks Aktiebolaget. Apparatus for making valve push rods and the like. 3,031,908, 5–1–62, Cl. 83—456.

Lejeck, Edward A.: *See*—
Benson, Donald E., Lejeck, Karsten, and Whitcomb. 3,024,004.

Lejk, Joseph R.: *See*—
Goldmann, Kenneth F., and Lejk. 3,050,962.

Lejk, Joseph R., and H. Merta, to The Trane Co. Turbine compressor assembly. 3 017,071, 1–16–62, Cl. 230—116.

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Leland, Bernard: *See*—
Haines, Robert S., and Leland. 3,049,442.

Leland, Frank G., to General Motors Corp. Pinned blade connecting means. 3,039,739, 6–19–62, Cl. 253—77.

Leland-Gifford Co.: *See*—
Abadjieff, Ivan V. 3,022 609.
Hirvonen, Eric J. 3,019,674.

Leland, Robert W.: *See*—
Levy, Irving M., and Leland. 3,045,159.

L'Electro Refractaire: *See*—
Hine, Christian, and Mendes Da Costa. 3,035,929.

Leliaert, Raymond M., to Bell Intercontinental Corp. Blast machine sealing means. 3,031,802, 5–1–62, Cl. 51—9.

Lemaire, Henry: *See*—
Schramm, Charles H., and Lemaire. 3,064,048.

Lemaire, Louis R. A. G. Door locking device. 3,066,964, 12–4–62, Cl. 292—173.

Le Maistre, John W.: *See*—
Baer, Byron N., Brandner, and Le Maistre. 3,031,320.

Lemanski, Paul P.: *See*—
Becker, Edward J., and Lemanski. 3,059.000.

Le Massena, Robert A., to Minneapolis-Honeywell Regulator Co. Recorder. 3,063,350, 11–13–62, Cl. 95—1.

Le Massena, Robert A., and R. S. Kampf, to Minneapolis-Honeywell Regulator Co. Process of recording. 3,035,912, 5–22–62, Cl. 96—27.

Le Mat, Lee E., and R. T. Sullivan, to Wilson Engineering, Inc. Leak testing system. 3,039,295, 6–19–62, Cl. 73—49.2.

Le May, Charlotte Z., and H. C. Chang, to Westinghouse Electric Corp. Preparation of junctions in silicon carbide members. 3,063,876, 11–13–62, Cl. 148—1.5.

Le May, Dan B., W. E. Parker, C. H. Paul, A. Silver, P. G. Stein, and H. J. Wood, to The Garrett Corp. Augmented gas turbine engine and controls. 3,060,686, 10–30–62, Cl. 60—39.07.

Le May, Joseph. Photographic film coating and straightening device. 3,016,039, 1–9–62, Cl. 118—253.

Lemberger, Robert A., to White-Rodgers Co. Stepped-opening solenoid valves. 3,017,156, 1–16–62, Cl. 251—54.

Lembo, Frank. Apparatus for continuously manufacturing plastic laminated textile films. 3,060,995, 10–30–62, Cl. 156—498.

Lemche, Johan H., to Cartoprint A/S. Production of printing surfaces. 3,058,406, 10–16–62, Cl. 95—4.5.

Lemche, Johan H., to Cartoprint A/S. Printer sheet assembly table. 3,064,525, 11–20–62, Cl. 88—24.

Lemelson, Jerome H. Toy and track assembly. 3,016,845, 1–16–62, Cl. 104—148.

Lemelson, Jerome H. Inflatable display. 3,026,648, 3–27–62, Cl. 46—87.

Lemelson, Jerome H. Delayed action toys. 3,029,557, 4–17–62, Cl. 46—196.

Lemelson, Jerome H. Target game. 3,032,345, 5–1–62, Cl. 273—95.

Lemelson, Jerome H. Packaging apparatus. 3,035,382, 5–22–62, Cl. 53—184.

Lemelson, Jerome H. Automated storage. 3,049,247, 8–14–62, Cl. 214—16 4.

Lemelson, Jerome H. Reflective thread. 3,050,824, 8–28–62, Cl. 28—82.

Lemelson, Jerome H. Magnetic recording systems. 3,051,-777, 8–28–62, Cl. 178—6.6.

Lemelson, Jerome H. Magnetron beam switching tube pulse code generator employing beam swept across commonly connected target anodes. 3,054,061, 9–11–62, Cl. 328—64.

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Lemelson, Jerome H. Inflatable toy. 3,065,567, 11–27–62, Cl. 46—88.

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Le Mense, Elmer H. Method for cultivating microorganisms. 3,028,312, 4–3–62, Cl. 195—95.

Lemforder Metallwarengesellschaft m.b.H.: *See*—
Bartel, Gunter. 3,065,795.
Reuter, Franz G. 3,022,128.

Le Miecz, Robert W., to Brunswick Corp. Ball return. 3,063,717, 11–13–62, Cl. 273—47.

Lemieux, Wilfrid J. Concrete steps. 3,025,639, 3–20–62, Cl. 50—108.

Lemin, Alan J., to The Upjohn Co. N,N-dialkenyl-α,α-diphenyl acetamides as herbicides. 3,043,676, 7–10–62, Cl. 71—2.6.

Lemin, Alan J., to The Upjohn Co. 4-allyloxybenzylamines. 3,070,628, 12–25–62, Cl. 260—570.9.

Lemish, John: *See*—
Hiltrop, Carl L., and Lemish. 3,042,535.

Lemiszka, Theodore: *See*—
Cottle, Delmar L., Minckler, and Lemiszka. 3,042,662.
Minckler, Leon S., Jr., Lemiszka, and Cottle. 3,028,373.

Lemiszka, Theodore, D. L. Cottle, and L. S. Minckler, Jr., to Esso Research and Engineering Co. Covulcanizate of chlorinated butyl rubber and highly unsaturated rubber, and process for preparing same. 3,028,346, 4–3–62, Cl. 260—5.

Lemmerling, Jose T.: *See*—
Gerbaux, Rene C., Lemmerling, and Claes. 3,045,006.

Lemmerman, Harold H. P.: *See*—
Johnson, Frithiof V., and Lemmerman. 3,060,752.

Lemmermann, Clarence E.: *See*—
Stickney, Joseph B., Lemmermann, Herring, and Carlson. 3,070,695.

Lemmers, Eugene, to General Electric Co. Low pressure discharge lamp. 3,060,581, 12–18–62, Cl. 313—187.

Lemmetty, Matti S., to RTM Kommanditiyhtio P. Wuorenjuuri. Hydraulic transmission gear for the regulation of the transmission ratio steplessly together with reversing and free clutch devices. 3,035,456, 5–22–62, Cl. 74—730.

Lemmey, Edgar S.: *See*—
Dine, Lester A., and Lemmey. 3,048,079.

Lemmon, Norman E., and A. R. Sabol, to Standard Oil Co. Preparation of lubricant additive and lubricant composition containing same. 3,042,613, 7–3–62, Cl. 252—32.7.

Lemoine, Georges: *See*—
Segal, Alfred, Lemoine, and Segal. 3,021,594.

Lemoine, Hubert *See*—
Fournet, Andre, and Lemoine. 3,017,397.
Fournet, Andre, and Lemoine. 3,049,512.

Lemoine, Marcel C. J., to Anciens Etablissements Goldenberg & Cie. Anchoring device. 3,017,799, 1–23–62, Cl. 85—2.4.

Lemoine, Marcel C. J., to Anciens Etablissements Goldenberg & Cie. Anchor bolt comprising separate shells having inclined ramp surfaces to be expanded by a wedge-shaped block drawn therebetween. 3,025,742, 3–20–62, Cl. 85—2 4.

Lemon, Cecil G., to Sidney Roofing & Paper Co. Ltd. Acoustic panel. 3,035,657, 5–22–62, Cl. 181—33.

Lemon, Robert W.: *See*—
Bowen, Glen L., Lemon, and Clauss. 3,050,164.

Lemon, Russell C.: *See*—
Goldsmith, William F., Lemon, and Montagna. 3,041,471.

Lemon, Russell C., and R. C. Myerly, to Union Carbide Corp. Production of amines. 3,022,349, 2–20–62, Cl. 260—585.

Lemons, Roy, to Drilling Control Corp. Key seat guide sub. 3,038,763, 6–12–62, Cl. 308—4.

Lemos, Albano. Electrical devices for the application of fluid to the gums. 3,048,170, 8–7–62, Cl. 128—172.1.

Le Moteur Moderne: *See*—
Massal, Louis L. J. 3,040,989.

Lempco Products, Inc.: *See*—
Barkley, Charles R. 3,060,761.
Blazek, William J., and Barkley. 3,027,201.
Blazek, William J., and Strnad. 3,032,376.
Strnad, James J. 3,020,096.
Strnad, James J. 3,062,083.

Lempicki, Alexander, to Sylvania Electric Products Inc. Energy storage device. 3,059,115, 10–16–62, Cl. 250—208.

Le Nabour, Marcel P.: *See*—
Bertin, Jean H., and Le Nabour. 3,029,045.
Bertin, Jean H., and Le Nabour. 3,045,947.

Le Nabour, Marcel P., and J. H. Bertin, to Societe Bertin & Cie. Ejectors or jet apparatus. 3,030,005, 4–17–62, Cl. 230—95.

Lenardo Cigar Corp.: *See*—
Lenardo, Sidney L. 3,046,993.

Lenardon, Nelson, and H. Romanoff, to Saxon Plastics Corp. Valve. 3,019,815, 2–6–62, Cl. 137—612.1.

Lencioni, Julius J., to Moll-Hoffmann Mfg. Co. Christmas tree stand. 3,042,350, 7–3–62, Cl. 248—45.

Lender, Robert J., to Daystrom Inc. Dual magnet electrical instrument. 3,040,253, 6–19–62, Cl. 324—150.

Lender, Robert J., to Daystrom Inc. Electrical instrument. 3,052,847, 9–4–62, Cl. 324—151.

Lenders, Wilhelmus L. L.: *See*—
Meegens, Ludovicus, and Lenders. 3,023,979.

Lendvai, Andreas. Nutritional composition and method of making the same. 3,051,576, 8–28–62. Cl. 99—97.

Lenet, Sidney. Leaf spring attachment for vehicles. 3,051,-468, 8–28–62, Cl. 267—16.

Lenet, Sidney, Maurice P. Auxiliary spring construction for vehicles. 3,049,150, 12–18–62, Cl. 267—48.

Lengyel, Charles N., to Kropp Forge Co. Link member. 3,069,923, 12–25–62, Cl. 74—254.

Lengyel, Gusztav. Expandible collet for gripping work pieces. 3,050,313, 8–21–62, Cl. 279—2.

Lengyel, John F., to Scovill Mfg. Co. Inlet means for toilet flush tanks. 3,066,691, 12–4–62, Cl. 137—216.

Lenk, Elmer N.: *See*—
Bach, Chester C., Clark, Drukker, Klenke, Lenk, and Runge. 3,016,448.

Lenk, Elmer N., J. G. Weeks, and Q. W. Wiest, to Western Electric Inc. Automatic positioning apparatus. 3,054,-036, 9–11–62, Cl. 318—162.

Lenk, Elmer N., J. G. Weeks, and Q. W. Wiest, to Western Electric Co., Inc. Coincidence circuit. 3,054,090, 9–11–62, Cl. 340—149.

Lenk, Herbert H.: *See*—
Wilbur, Irvin M., and Lenk. 3,064,203.

Lenk, Wilhelm, to Barmer Maschinenfabrik Aktiengesellschaft. Device for drawing off equal thread lengths from two feed spools. 3,018,604, 1–30–62, Cl. 57—58.52.

Lenk, Wilhelm, to Barmer Maschinenfabrik Aktiengesellschaft. Thread twisting apparatus. 3,022,623, 2–27–62, Cl. 57—58.83.

Lenke, Dieter: *See*—
Boxall, Frank S., and Rosenstein. 3,027,522.
Engelbrecht, Heinz-Joachim, Lenke, and Müller. 3,017,-411.

Lenkurt Electric Co., Inc.: *See*—
Coffin, John M., and Ewing. 3,039,052.
Donnell, Lawrence E., and Krasin. 3,065,524.
Faries, Alfred M., and Harp. 3,046,495.
Graham, Raymond C. 3,054,566.
Salibi, Jalal T. 3,033,997.
Semelman, Jay R. 3,036,267.
Sicard, Jean P. 3,044,004.

Lenney, James F., and L. R. Shively, to Union Starch & Refining Co., Inc. Production of dextrose from starch. 3,039,936, 6–19–62, Cl. 195—11.

Lenning, Alvar, to AB Inreco, Stockholm. Electric switching device. 3,018,348, 1–23–62, Cl. 200—104.

Lennon, George V., III: *See*—
Harrison, John E. R., Lennon, and Van Sandwyk. 3,060,329.

Lennon, George V., III, to General Dynamics Corp. Suppressed carrier transmitter. 3,066,259, 11–27–62, Cl. 325—105.

Lennon, John J., to Netteo Corp. Power transmission means and housing therefor. 3,033,056, 5–8–62, Cl. 74—606.

Lennon, Kenneth A. Rotatable flexible dial or the like. 3,070,063, 12–25–62. Cl. 116—133.

Lennox, George C., to The Bryant Electric Co. Wiring device. 3,048,808, 8–7–62, Cl. 339—53.

Lennox, George C., to The Bryant Electric Co. Wiring device. 3,054,980, 9–18–62. Cl. 339—90.

Lennox, George C., to The Bryant Electric Co. Wiring device. 3,064,225, 11–13–62, Cl. 339—56.

Lennox Industries, Inc.: *See*—
Bierwirth, Henry C., and Rutgers. 3,051,451
Miller, Richard D. 3,028,093.
Peoples, Graydon, and Vreeland. 3,051,228.
Lennox, Peter W., to International Standard Electric Corp. Intelligence storage equipment. 3,051,931, 8–28–62, Cl. 340—174
Lenoble, Daniel. Apparatus for making simulated curled hair. 3,039,259, 6–19–62, Cl. 57—34.
Lenoir, Jeannine: *See*—
Wyraud, Charles, Prettre, Trambouze, Lenoir, Thomas, and Plurien. 3,022,187.
Lenox Jewelry Products Corp.: *See*—
Mueller, Fritz, and Pascali. 3,040,515.
Lens, Georges X., and J. B. De Peuter, to International Standard Electric Corp. Mechanism for transferring flat articles from a transverse conveyor to an edgewise conveyor. 3,068,988, 12–18–62, Cl. 198—26.
Lense, Frederick T., to Esso Research and Engineering Co. Process for treating cellulosic fabric composition therefor and fabric resulting therefrom. 3,061,474, 10–30–62, Cl. 117—143.
Lense, Robert F.: *See*—
Weston, Lawrence G., and Lense. 3,027,922.
Lent, Albert, to Erly-Fat Livestock Feed Co. Pelleted animal feed and process. 3,044,877, 7–17–62, Cl. 99—8.
Lent, Constantin P. Mobile space suit. 3,034,131, 5–15–62, Cl. 2—2.1
Lent, Constantin P. Aircraft with discoid sustaining airfoil. 3,034,747, 5–15–62, Cl. 244—23.
Lent, Ralph C., to Hanawau Mfg. Co., Ltd. Irrigation unit. 3,047,240, 7–31–62, Cl. 239—265.
Lentjes, Ferdinand Kesselschmiede u. Maschinenbau: *See*—
Munster, Josef, and Textor. 3,047,376.
Lento, Louis L., Jr.: *See*—
Saunders, Kenneth W., and Lento. 3,064,050.
Lents, Charles M., and J. E. Lincoln, to John E. Mitchell Co. Seal. 3,064,853, 11–20–62, Cl. 220—46.
Lenz, John J., to International Business Machines Corp. Bifilar thin film superconductor circuits. 3,059,196, 10–16–62, Cl. 338—32.
Lenz, Emory W., and H. V. Roberts, Jr., to Trico Products Corp. Remotely actuated trunk lock arrangement for a motor vehicle. 3,016,968, 1–16–62, Cl. 180—82.
Lenz, George W., Jr. One-piece sheet metal sink rim guards or the like and method for making the same. 3,041,632, 7–3–62, Cl. 4—187.
Lenz, Hans-Joachim: *See*—
Fischer, Arnold, and Lenz. 3,029,224.
Lenz, Herbert R. Photoprint washers. 3,067,668, 12–11–62, Cl. 95—97
Lenz, John H. Animal watering device. 3,044,447, 7–17–62, Cl. 119—75.
Lenz, Walter: *See*—
Trobeck, Karl G., Tirado, and Lenz. 3,028,295.
Lenzi, Mario A., and L. C. Quercetti. Household napkin holder and dispenser. 3,068,055, 12–11–62, Cl. 312—50.
Leo (A/B Leo), Aktiebolaget: *See*—
Hogberg, Knut C., and Ferno.
Leo, Herbert T., and C. C. Taylor, to Mutual Citrus Products Co. Method of making low sugar pectinic acid gels. 3,034,-901, 5–15–62, Cl. 99—132.
Leo, Herbert T., and T. H. Bodfish, to Mutual Citrus Products Co. Dietary gel and method of making same. 3,065,-081 11–20–62, Cl. 99—132.
Leo, Thomas J.: *See*—
Gerstenmaier, John H., Leo, Miller, and Shaul. 3,042,-974
Leon, Louis E. Knock-down support stand. 3,035,660, 5–22–62, Cl. 182—181.
Leonard, Donald J., and R. H. Shennum, to Bell Telephone Laboratories, Inc. PCM telephone signaling. 3,030,448, 4–17–62, Cl. 179—15.
Leonard, Edward C., Jr.: *See*—
Schroeder, Juel P., and Leonard. 3,069,372.
Leonard, Edward C., Jr., to Union Carbide Corp. Butadiene polymerization. 3,020,269, 2–6–62, Cl. 260—94.3.
Leonard, Edward J., to International Telephone and Telegraph Corp. Multi-digit electrical door lock. 3,024,452, 3–6–62 Cl. 340—274.
Leonard, Edward J., A. Hemel, H. Tarschisch, K. A. Karow, J. C. Gibson, and K. L. Liston, to International Telephone and Telegraph Corp. Telephone connector system using controlling crossbar switch. 3,036,160, 5–22–62, Cl. 179—18.
Leonard, Frederick, to Geigy Chemical Corp. New amino acids and derivatives thereof. 3,023,235, 2–27–62, Cl. 260—519.
Leonard, Frederick, to Geigy Chemical Corp. Phenylalanine derivatives. 3,032,581, 5–1–62, Cl. 260—471.
Leonard, George E. Pouring form assembly with interlock. 3,015,144, 1–2–62, Cl. 25—131.
Leonard, George H.: *See*—
Huck, William F., and Leonard. 3,070,366.
Leonard, George H., to AMP Inc. Means for connecting multiconductor cables. 3,065,441, 11–20–62, Cl. 339—49.
Leonard, Guy W.: *See*—
Pakulak, Jack M., Jr., and Leonard. 3,033,020.
Leonard, James H.: *See*—
Geissner, George J., and Leonard. 3,053,958.
Leonard, John E.: *See*—
Arthur, Edwin P., and Leonard. 3,049,118.
Leonard, John M.: *See*—
Hannan, Patrick J., and Leonard. 3,018,558.
Leonard, Louis H., Jr., to Carrier Corp. Absorption refrigeration systems and method of operating the same. 3,019,-613, 2–6–62, Cl. 62—103.
Leonard, Louis H., Jr., to Carrier Corp. Method of securing a pan in a shell of an absorption refrigeration system. 3,052,962 9–11–62, Cl. 29—157.
Leonard, Louis H., Jr., to Carrier Corp. Absorption refrigeration systems and control arrangements therefor. 3,053,056, 9–11–62, Cl. 62—104.
Leonard, Louis H., Jr., to Carrier Corp. Absorption refrigeration systems and method of operating the same. 3,054,-272, 9–18–62, Cl. 62—103.
Leonard, Louis H., Jr., to Carrier Corp. Absorption refrigeration systems. 3,064,450, 11–20–62, Cl. 62—497.
Leonard, Nelson J., and L. R. Peters, to Eli Lilly and Co. Process for preparing 5-fluoronicotinic acid. 3,027,380, 3–27–62, Cl. 260—295.5.
Leonard, Richard A.: *See*—
Harris, George C., and Leonard. 3,070,594.
Leonard, Robert H.: *See*—
Walker, Donald J., and Leonard. 3,038,961.
Leonard, Robert R., to Minneapolis-Honeywell Regulator Co. Electrical pulse generator for uniform output signal and high duty cycle. 3,051,851, 8–28–62, Cl. 307—88.5.
Leonard Spark Plug Co., Inc.: *See*—
Ingram, Maxwell. 3,048,735.
Leonard, Stephen C.: *See*—
Gettys, Charles B., and Leonard. 3,022,486.
Leonard Valve Co.: *See*—
Bowman, Lawrence E. 3,061,195.
Leonard, William R.: *See*—
Mauser, Eric T., and Leonard. 3,051,827.
Leonardson, Henning A. Combination plane, scraper and cutter. 3,027,641. 4–3–62, Cl. 30—329.
Leoncini, Giovanni: *See*—
Pizzarotti, Pietro, Antonucci, and Leoncini. 3,069,983.
Leone, James E.: *See*—
Faulkner, William H., Jr., and Leone. 3,053,983.
Leone, Joseph T.: *See*—
Gray, Glen G., and Leone. 3,015,537.
Leong, Crichton K. Magnifying drinking glass. 3,028,035, 4–3–62, Cl. 215—99.5.
Leonhard, Werner, to Westinghouse Electric Corp. Synchronous motor control. 3,048,755, 8–7–62, Cl. 318—170.
Leoni, Eugene. Ballast-retaining fastener for lighting fixtures. 3,025,337, 3–13–62, Cl. 174—52.
Leopold, Frans M., to North American Philips Co., Inc. Method of growing semiconductor crystals. 3,015,592, 1–2–62, Cl. 148—1.6.
Le Parquier, Guy: *See*—
Thourel, Leo, and Le Parquier. 3,044,057.
Le Parquier, Guy, to Compagnie Generale de Telegraphie Sans Fil. Moving target indicating system. 3,031,659, 4–24–62, Cl. 343—7.7.
Le Parquier, Guy, and A. Detape. Compagnie Generale de Telegraphie Sans Fil. Radar noise suppressing system. 3,038,155, 6–5–62, Cl. 343—17.1.
Lepelletier, Pierre A., to Societe Anonyme Francaise du Ferodo. Vehicle brake control and balancing system. 3,033,324, 5–8–62, Cl. 188—152.
Lepelletier, Pierre A., to Societe Anonyme Francaise du Ferodo. Vehicle brake-control system. 3,044,581, 7–17–62, Cl. 188—152.
Lepers, Jacques C. H. J.: *See*—
Goodall, Donald G., and Lepers. 3,049,878.
Lepetich, Joseph E.: *See*—
Kempff, Wolfgang A., and Lepetich. 3,027,165.
Lepetit, S.p.A.: *See*—
Maffii, Giulio, and Teotino. 3,069,318.
Nathansohn, Giangiacomo. 3,025,309.
Teotino, Uberto, and Cignarella. 3,051,727.
Teotino, Uberto, and Cignarella. 3,067,208.
Testa, Emilio. 3,028,399.
Testa, Emilio. 3,063,997.
Testa, Emilio, Fontanella, and Maffii. 3,028,378.
Testa, Emilio Fontanella, and Maffii. 3,037,019.
Virgilio, Abramo, and Hengeller. 3,070,514.
Lepinay, Guy and Y. Rear view mirror with parking-time reminder. 3,016,641, 1–16–62, Cl. 40—70.
Lepinay, Yves: *See*—
Lepinay, Guy and Y. 3,016,641.
Lepler, John C.: *See*—
Anderson, Chester A. 3,018,713.
Le Poole, Jan B., to North American Philips Co., Inc. X-ray shadow microscope. 3,030,506, 4–17–62, Cl. 250—49.5.
Lepow, Edward J., to Home Curtain Corp. Pleated curtain construction and method of making same. 3,027,938, 4–3–62, Cl. 160—348.
Lenpala, Axel R. Ignition circuit. 3,025,430, 3–13–62, Cl. 315—227.
Lepper, Erich, and A. Hirschhauser, to Carl Zeiss. Adjustable measuring table. 3,025,605, 3–20–62, Cl. 33—125.
Lepperhoff, John H.: *See*—
Moodie, William C., Sir., and Lepperhoff. 3,030,013.
Le Quec, Andre, to Chantiers De L'Atlantique (Phenhoet-Loire). Method of venting smokes, gases, and the like to the outside, and means therefor. 3,066,595, 12–4–62, Cl. 98—60.
L'Equilibre Biologique: *See*—
Laborit, Henri M. 3,051,619.

L'Equipement Electrique et Antideflagrant, Societe Anonyme dite : *See*—
Lagier, Robert. 3,038,972.

Lerch, Donald P. : *See*—
Allen, John W., Lerch, and Ziegler. 3,048,650.

Lerch, Walter, to Glas-und Spiegel-Manufactur Aktiengesellschaft. Double pane wire-reinforced glass and method of producing the same. 3,044,159, 7–17–62, Cl. 29—419.

Lerer, Moise : *See*—
Hugel, Georges, and Lerer. 3,050,538.

Leriche, Cederic C. Box car side sill, door frame, and girder. 3,035,531, 5–22–62, Cl. 105—404.

Leriche, Marie A., deceased, by M. M. T. Leriche, executrix. Protective device for electrical appliance. 3,047,775, 7–31–62, Cl. 317—18.

Leriche, Marie M. T. : *See*—
Leriche, Marie A. 3,047,775.

Le Riche, Rene P. : *See*—
Denton, Richard A., Le Riche, and Rivera. 3,021,712.

Lerner, Alvin : *See*—
Domorow, Bernard, and Lerner. 3,062,757.
Dombrow, Bernard A., and Lerner. 3,067,149.
Domborow, Bernard A., and Lerner. 3,067,150.

Lerner, Bernard J. : *See*—
Elliott, George E., Jr., and Lerner. 3,033,800.

Lerner, Bernard J., to Gulf Research & Development Co. Process for the removal of carbonates from carbonate containing ores. 3,025,131, 3–13–62, Cl. 23—1.

Lerner, Bernard J., to Gulf Research & Development Co. Process for recovery of niobium from ores in associations with alkaline earth metals. 3,025,157, 3–13–62, Cl. 75—115.

Lerner, Bernard J., to Gulf Research & Development Co. Removing metals with a 2-pyrrolidone-alcohol mixture. 3,052,627, 9–4–62, Cl. 208—251.

Lerner, Irwin S., and R. L. Kissner, to Royal McBee Corp. Data translating systems. 3,034,114, 5–8–62, Cl. 340—347.

Lerner, Jack. Method of manufacturing a swimming pool and the article. 3,016,546, 1–16–62, Cl. 4—172.

Lerner, Morris K. Hoist for cleaning Venetian blinds. 3,050,284, 8–21–62, Cl. 254—139.

Lerner, Nathan B., to W. Braun Co. Cap or closure for containers. 3,067,916, 12–11–62, Cl. 222—519.

Lerner, Stuart M., Inc. : *See*—
Darnell, George. 3,028,207.

Leroux, Marcel : *See*—
Schibli, Marcel, and Leroux. 3,048,239.

Leroy, Pierre, and R. Simon, to Institut de Recherches de la Siderurgie Francais. Porous refractory concrete element. 3,053,675, 9–11–62, Cl. 266—34.

Leroy, Pierre, and R. Simon, to Institut de Recherches de la Siderurgie. Apparatus for the continuous pre-refining of molten pig iron. 3,062,524, 11–6–62, Cl. 266—34.

Lesch, Hans : *See*—
Hansel, Otto, and Lesch. 3,033 343.

Lescher, Edmund J., and A. W. Tronnier, to Farrand Optical Co., Inc. High speed optical system for telescopes. 3,064,-532, 11–20–62, Cl. 88—57.

Lescoa, Inc : *See*—
Middleton, Forest L. 3,045,813.

Lescroel, Yves : *See*—
Pierrot, André, and Lescroel. 3,031,405.
Pierrot, Andre, and Lescroel. 3,057,802.
Pierrot, Andre, Lescroel, and Bernard. 3,062,667.
Pierrot, Andre, Le. croel, and Bernard. 3,062,668.

Lescroel, Henri. Pressure coffee-pots. 3,044,388, 7–17–62, Cl. 99—285.

Lesh, James B. : *See*—
Bradford, Paul E., Damaskus, and Lesh. 3,051,627.

Lesher, Godwin F. Stringer holder. 3,052,002, 9–4–62, Cl. 24—3.

Lesher, John C., to Rad-O-Lite, Inc. Remote control system. 3,020,522, 2–6–62, Cl. 340—33.

Lesher, John C., to M. H. Egly, M. J. Manchester, and Rad-O-Lite, Inc. Building protection system. 3,051,934, 8–28–62, Cl. 340—224.

Leshin, Richard : *See*—
Mayor, Rowland H., Leshin, and Wargotz. 3,047,559.

Leshin, Richard, to The Goodyear Tire & Rubber Co. Process of heat treating rubber and carbon black with a tertiary amine N-oxide or a pyridine N-oxide and resulting process. 3,047,529, 7–31–62, Cl. 260—41.5.

Leshner, Ervin, to Burroughs Corp. Electrical connector for circuit board. 3,037,181, 5–29–62, Cl. 339—17.

Leslie, Donald J. Electrical circuit arrangement for complex wave generators. 3,041,910, 7–3–62, Cl. 84—1.22.

Leslie, Donald J. Apparatus for minimizing beat effects. 3,049,040. 8–14–62, Cl. 84—1.22.

Leslie, Donald J. Rotary electrostatic speaker. 3,058,541, 10–16–62, Cl. 181—27

Leslie, Ivan A., to Joseph Sankey & Sons Ltd. Sewing machines. 3,040,682, 6–26–62, Cl. 112—221.

Leslie, James D. : *See*—
Cockburn, Stanley D., and Leslie. 3,034,818.
Fox, Robert M., and Leslie. 3,056,619.
Garvey, Louis P., and Leslie. 3,019,848.

Leslie, James D., to General Motors Corp. Reading lamp assembly. 3,020,392, 2–6–62, Cl. 240—7.35.

Leslie, James D., to General Motors Corp. Coincidental door locking system. 3,062,054, 11–6–62, Cl. 70—264.

Leslie, James D., and G. Rehkugler, to General Motors Corp. Closure latch. 3,047,326, 7–31–62, Cl. 292—341.15.

Leslie, John D., to Siemens Edison Swan Ltd. Automatic selecting switches as used in automatic telephone systems. 3,022,388, 2–20–62, Cl. 200—11.

Leslie, John H., and H. C. Lingle, to Signode Steel Strapping Co. Power strap tensioning tool. 3,028,885, 4–10–62, Cl. 140—123.6.

Leslie, Richard E., and L. E. Greenspan, to Sperry Rand Corp. Wide-range pulse amplitude limiter having means for bypassing some of cascaded limiter stages. 3,029,392, 4–10–62, Cl. 328—169.

Leslie Salt Co. : *See*—
Leal, Bernardine J., and Pinto. 3,042,531.

Leslie Welding Co., Inc. : *See*—
Rousey, Donald L. 3,049,068.

Leslie William C. : *See*—
Hudak, Stephen B., Leslie, and Rickett. 3,062,693.

Leslie, William T., to Raymond Bag Corp. Waste disposal unit. 3,029,012, 4–10–62, Cl. 232—43.2.

Leslie, William T., to Raymond Bag Corp. Device for applying beading to stitched end bag. 3,038,427, 6–12–62, Cl. 112—11.

Leslie-Smith, Laurance. Vacuum flasks. 3,058,610, 10–16–62. Cl. 215—13.

Leslynn Products Corp. : *See*—
Bialy, Michael, and Klebsch. 3,067,442.

Lesnett, Frederick A., Jr., and D. A. Wenger, to Florida Tile Industries Inc. Automatic tile press. 3,044,138, 7–17–62, Cl. 25—42.

Less, Frank W., J. C. Searer, and E. C. Roeck, to Hooker Chemical Corp. Phenolic resin and molding composition. 3,020,254, 2–6–62, Cl. 260—38.

Lesser, Jack, and L. H. Halber, to Atlas Novelty Co., Inc. Belt and belt-buckle assembly. 3,043,037, 7–10–62, Cl. 40—21.

Lesser, Mortimer, and M. I. Moncada. Process of treating dry cleaning solvents. 3,063.558, 11–13–62, Cl. 206—84.

Lesser, Mortimer, and M. Moncada. Apparatus for closing containers. 3,067,653, 12–11–62, Cl. 93—39.1.

Lesser, Murray L. : *See*—
Haanstra, John W., Huag, Lesser, Stevens, and Woodbury. 3,026,036.

Lesser, Norton, to Automatic Electric Laboratories, Inc. Reverting all automatic lock-out. 3,024,314, 3–6–62, Cl. 179—17

Lessig, Edward T., to The B. F. Goodrich Co. Method of making cord. 3,016,684, 1–16–62, Cl. 57—157.

Lessig, Edward T., to The B. F. Goodrich Co. Tire construction. 3,028,903, 4–10–62, Cl. 152—362.

Lessig, Roland : *See*—
Bradshaw, Robert S., and Lessig. 3,048,394.
Harduk, John, and Lessig. 3,019,316.

Lessing, Heinz W. : *See*—
Meiners, Carl O., and H. W. and W. B. Lessing. 3,055,200.
Lessing, Heinz W. and W. B., and C. O. Meiners, to Meiners Optical Instrument Ltd. Illuminating device for looms. 3,034,-538, 5–15–62, Cl. 139—1.
Lessing, John D., R. J. Atkinson, and R. K. Cadwell, to Lacy Mfg. Co. Seal and centralizing means for floating tank covers. 3,048,298, 8–7–62, Cl. 220—26.

Lessing, Walter B. : *See*—
Lessing, Heinz W. and W. B., and Meiners. 3,034,538.
Meiners, Carl O., and H. W. and W. B. Lessing. 3,055,200.

Lessing, Wilfred E., and L. J. Wolf. Tarpaulin fastening means. 3,052,498, 9–4–62, Cl. 296—100.

Lessman, Gerhard, to Bell & Howell Co. Integral beam lamp and projection system. 3,023 667, 3–6–62, Cl. 88—24.

Lessman, Gerhard, to Bell & Howell Co. Measuring device. 3,030,578, 4–17–62, Cl. 324—61.

Lessman, Gerhard, to Bell & Howell Co. Lantern slide illuminating system. 3,038,372, 6–12–62, Cl. 88—24.

Lessmann, Gerhard P., to Westinghouse Electric Corp. Protective means for rotating electrical device. 3,030,531, 4–17–62, Cl. 310—68.

Lessoff, Howard, to Radio Corp. of America. Magnetic bodies and methods of preparation thereof. 3,042,617, 7–3–62, Cl. 252—62.5.

Lessoff, Howard, R. Laird, and J. D. Childress, to Radio Corp. of America. Methods for preparing improved magnetic bodies. 3,043,777, 7–10–62, Cl. 252—62.5.

Lester, Donald H. : *See*—
Cornell, John, and Lester. 3,028,547.

Lester, Harry R., to Tempmaster Corp. Lagging mount. 3,019,864, 2–6–62, Cl. 189—34.

Lester, Jules P. : *See*—
Smith, Donald F., and Lester. 3,016,488.

Lester, Robert W., to Transolete Corp. Fluorescent tube fixture. 3,040,169, 6–19–62, Cl. 240—11.4.

Le Suer, William M. : *See*—
Vogel, Paul W., Asseff, and Le Suer. 3,033,786.

Le Suer, William M., to The Lubrizol Corp. Preparation of phosphorus chlorine containing compounds. 3,033,890, 5–8–62, Cl. 260—461.

Le Suer, William M., to The Lubrizol Corp. Catalyzed process for the modification of olefin polymers. 3,049,531, 8–14–62, Cl. 260—139.

Letchfield, Francis T. and F. T., Jr. Personal hair cutter. 3,046,654, 7–31–62, Cl. 30—201.

Letchfield, Francis T., Jr. : *See*—
Letchfield, Francis T. and F. T., Jr. 3,046,654.

Lethbridge, Ernest, to W. & T. Avery, Ltd. Load indicating mechanism. 3,067,828, 12–11–62, Cl. 177—173.

Le Tilly, Henri, and L. Michael, to Generale Aeronautique Marcel Dassault. Gyroscopic apparatus. 3,068,705, 12–18–62, Cl. 74—5.4.

Leto, Joseph : *See*—
Leto, Salvatore F. and J. 3,039,301.

Leto, Joseph R., to American Cyanamid Co. Method of polymerizing acetylenic compounds. 3,051,693, 8–28–62, Cl. 260—94.1.

Leto, Salvatore F. Shaft coupling. 3,069,874, 12–25–62, Cl. 64—8.

Leto, Salvatore F. and J. Dynamic torque response device. 3,039,301, 6–19–62, Cl. 73—136.

LeTourneau, Robert G. Earth working machinery. 3,016,-633, 1–16–62, Cl. 37—129.

LeTourneau, Robert G. Press. 3,023,799, 3–6–62, Cl. 153—48.

Le Tourneau, Robert G. Canal towing apparatus. 3,033,-152, 5–8–62, Cl. 115—6.

Le Tourneau, Robert G. Tree felling machine. 3,033,524, 5–8–62, Cl. 254—95.

Le Tourneau, Robert G. Propeller and rotating propeller control mechanism for marine propulsion. 3,043,374, 7–10–62, Cl. 170—160.3.

LeTourneau, Robert G. Mobile sea platform. 3,044,269, 7–17–62 Cl. 61—46.5.

Le Tourneau, Robert G. Shuttle cars. 3,054,160, 9–18–62, Cl. 296—57.

Le Tourneau-Westinghouse Co. : *See*—
Eaton, Lyle E. 3,039,823.
Isgren, Elmer E., and Roe. 3,024,378.
Licari, Vincent. 3,039,493.
Medley, Jackson C., and Pfiederer. 3,049,187.
Roe, Charles C. 3,020,739.

Lefoerstare, Alfred A. Combined match and cigarette container. 3,027,002, 3–27–62, Cl. 206—48.

Letowsky, Manuel. Self-aligning precast window frame. 3,057,118, 10–9–62, Cl. 50—121.

Letson, Richard A., to Sperry Rand Corp. Automatic approach system for aircraft. 3,059,881, 10–23–62, Cl. 244—77.

Lettenbauer, Gustav : *See*—
Popelak, Alfred, and Lettenbauer. 3,028,394.

Lettep, Otto G., to Allis-Chalmers Mfg. Co. Apparatus grinding and cooling solids. 3,063,647, 11–13–62, Cl. 241—51.

Letts, Harold D. Dirigible mining auger. 3,036,821, 5–29–62, Cl. 262—26.

Lettvin, Norman : *See*—
Kravitz, Harvey, and Lettvin. 3,062,212.

Letzer, Edward K. : *See*—
Mccadam, Ralph E., Letzer, and Pollock. 3,025,758.

Leu, Antoinette. Garment. 3,065,471, 11–27–62, Cl. 2—74.

Leuchs, Dieter : *See*—
Baumann, Hans, Leuchs, and Krallmann. 3,070,592.

Leuchten, William E., and A. F. Vondy, to Thiokol Chemical Corp. Light-colored elastomer and method of making the same. 3,036,049, 5–22–62, Cl. 260—79.1.

Leufvenius, Karl J. Massaging apparatus. 3,044,462, 7–17–62, Cl. 128—33.

Leum, Leonard N., and J. E. Connor, Jr., to The Atlantic Refining Co. Method for the separation of sulfuric acid from sulfuric acid-sulfonic acid mixtures. 3,030,411, 4–17–62, Cl. 260—505.

Leum, Leonard N., J. E. Connor, Jr., J. J. Rothrock, and C. S. Shipley, to The Atlantic Refining Co. Product distribution in hydrocarbon catalytic cracking processes. 3,041,270, 6–26–62, Cl. 208—120.

Leunig, Günther, to Gesellschaft fur Linde's Eismaschinen Aktiengesellschaft. Internal combustion engine operating with self ignition. 3,068,845, 12–18–62, Cl. 123—30.

Leupold, Curt W., R. Mohr, and K. Sponsel ; said Leupold assor. to Vereinigte Papierwerke Schickedanz & Co. Process for consolidating fibres. 3,025,203, 3–13–62, Cl. 156—36.

Leupold, Henry G., to United Electric Controls Co. Snap action electrical switch. 3,019,312, 1–30–62, Cl. 200—67.

Leupold, Marcus, to Leupold & Stevens Instruments, Inc. Variable power rifle scope. 3,058,391, 10–16–62, Cl. 88—32.

Leupold & Stevens Instruments, Inc. : *See*—
Leupold, Marcus. 3,058,391.

Leuschke, Siegfried, and R. Grötzschel, to VEB Kamera- und Kinowerke Dresden. Motion picture camera with a timing mechanism. 3,027,800, 4–3–62, Cl. 88—16.

Leutert, Fritz : *See*—
Kunzer, Werner, and Leutert. 3,036,418.

Leuthesser, Edward G. Method of installing swimming pools. 3,031,801, 5–1–62, Cl. 50—532.

Leuthesser, Frederick W., to American Radiator & Standard Sanitary Corp. Single control handle operated mixing faucet having a diverter valve associated therewith. Re. 25,155, 4–10–62, Cl. 137—597.

Leuthner, Frank G., to Wilmot Castle Co. Sterilizing apparatus. 3,069,734, 12–25–62, Cl. 21—78.

Leutner, Frederick S., to Martin-Marietta Corp. Resin composition comprising condensation product of dicarboxylic acid anhydride with ester of diglycidyl ether of dihydric phenol with monocarboxylic aromatic acid. 3,041,302, 6–26–62, Cl. 260—31.8.

Leuze, William F., to United States of America, Navy. Bathythermograph simulator. 3,044,184, 7–17–62, Cl. 35—19.

Lev, Benjamin : *See*—
Bloom, Bernard, and Lev. 3,027,565.

Lev, Harry. Cap visor construction. 3,047,880, 8–7–62, Cl. 2—200.

Levadi, Victor S., to Industrial Nucleonics Corp. Control system. 3,052,242, 9–4–62, Cl. 131—21.

Levaggi, Victor J., Jr., to United Shoe Machinery Corp. Foreshortening lasts. 3,040,349, 6–26–62, Cl. 12—136.

Levasheff, Vladimir V. : *See*—
May, Frank H., and Levasheff. 3,018,163.

Le Vaux, Rene G. : *See*—
Wood, Ernest C. 3,033,204.
Wood, Ernest C. 3,040,747.

Levecque, Marcel : *See*—
Berthon, Lucien, Levecque, and Piot. 3,020,585.

Levecque, Marcel, and M. Charpentier, to Societe Anonyme des Manufactures des Glaces & Prcduits Chimiques de Saint-Gobain, Chauny & Cirey. Apparatus for producing fibers from thermoplastic material. 3,017,663, 1–23–62, Cl. 18—2.5.

Levecque, Marcel, and P. Piot, to Saint-Gobain, Compagnie de. Centrifugal fiber forming apparatus. 3,031,717, 5–1–62, Cl. 18—2.6.

Leven, Samuel, to Joy Mfg. Co. Pipe storage and handling device. 3,025,918, 3–29–62, Cl. 175—52.

Levenson, Sol J. Device for removing press fitted axle bearings. 3,060,558, 10–30 62, Cl. 29—256.

Levenson, Sol J. Bearing remover having axle holding reaction member. 3,060,559, 10–30–62, Cl. 29—256.

Lever Bias Machine Corp. : *See*—
Johnson, Edward, and Leiss. 3,068,729.

Lever Bros. Co. : *See*—
Alsbury, Allan, Phillips, and Taylor. 3,047,509.
Becker, Ewald G., and Wieske. 3,015,566.
Burge, David E. 3,021,948.
Cieremans, Cornelis J. A. 3,050,807.
Euwe, Gerrit E., and Cieremans. 3,018,146.
Finsberg, Arne. 3,047,600.
Forster, Gerald L., and Trower. 3,024,623.
Gershon, Sol D. 3,060,098.
Harkes, Pieter D. 3,017,417.
Henderson, Lloyd F., and Carroll. 3,029,205.
Holmes, Alan W. 3,046,080.
Hurt, Norman A., and Mitchell. 3,054,753.
Kearns, John J., Jr. 3,028,244.
Kelly, William A. 3,043,778.
Mills, Maurice R. 3,043,852.
Pader, Morton. 3,057,734.
Pader, Morton. 3,067,042.
Pardun, Hermann. 3,047,597.
Parke, John P., and Penketh. 3,043,779.
Ruiter, Lukas H., and Van Schaik. 3,015,667.
Ryer, Frederick V. 3,056,652.
Schmidt, Werner H. 3,047,402.
Schramm, Charles H. 3,057,920.
Schramm, Charles H., and Lemaire. 3,064,048.
Van Alphen, Jan, and Terwan. 3,029,264.
Williams, Geoffrey E., and Dow. 3,026,657.
Wilson, James H. 3,017,363.

Lever, David A. Method for forming joints. 3,043,003, 7–10–62, Cl. 29—521.

Leverett, James H. Combination ladders and chutes. 3,026,-961, 3–27–62. Cl. 182—21.

Leverett, Theodore W. : *See*—
Altenau, Edward E., Leverett, and McGregor. 3,065,460.

Levering, Dewey R., to Hercules Powder Co. Nitrile-metal carbonyl complexes. 3,065,250, 11–20–62, Cl. 260—429.

Levering, Dewey R., and L. G. Maury, to Hercules Powder Co. Preparation of nitrosamines. 3,062,887, 11–6–62, Cl. 260—583.

Leverton, Walter F., to Raytheon Co. Crystal-growing apparatus and methods. 3,025,191, 3–13–62, Cl. 148—1.6.

Levesque, Clarence W. : *See*—
Bennett, Morland D., and Levesque. 3,067,488.

Levesque, George N., to Brown & Sharpe Mfg. Co. Magnetic chuck. 3,039,026, 6–12–62, Cl. 317—159.

Levey, Fred'k H., Co., Inc. : *See*—
Brodie, George R., and Raybuck. 3,034,429.
Buckwalter, Geoffrey R. 3,046,282.

Levey, Gustave S., to The Spee-Flo Mfg. Corp. Closed system recirculating assembly. 3,018,968, 1–30–62, Cl. 239—124.

Levey, Le Roy D., and C. A. Stanley. Dental apparatus. 3,069,774, 12–25–62, Cl. 32—20.

Levey, Ralph P., Jr. : *See*—
Gregory, John E., Jr., and Levey. 3,037,840.

Levey, Virginius T. Fishing pole and reel combination. 3,040,463, 6–26–62, Cl. 43—20.

Le Vezu, Charles G., to Radio Corp. of America. Pulse width discriminator. 3,036,272, 5–22–62, Cl. 328—112.

Levi, Daisy O., to D. O. and R. Levi, jointly. Reversible furniture cover or receptacle and method for making same. 3,044,429, 7–17–62, Cl. 112—262.

Levi, Daisy O., to D. O. and R. Levi. Reversible furniture cover or receptacle and method for making same. 3,044,-517, 7–17–62, Cl. 150—52.

Levi, Fulvio, to Rola Co. (Australia) Proprietary Ltd. Methods of producing magnetic materials and to the magnetic materials so produced. 3,029,496, 4–17–62, Cl. 29—155.59.

Levi, Hans L. Flexible drinking straw. 3,025,004, 3–13–62, Cl. 239—33.

Levi, Hans L. Traction device. 3,050,347, 8–21–62, Cl. 305—20.

Levi, Renato : *See*—
Levi, Daisy O. 3,044,429.
Levi, Daisy O. 3,044,517.
Leviel, Roger, and P. Croce-Spinelli, to Degremont ACFI. Method of clarifying liquid. 3,068,172, 12–11–62, Cl. 210—19.
Levin, Abraham. Wound clip. 3,068,870, 12–18–62, Cl. 128—337.
Levin, Abraham A. Disposable absorbent unit. 3,030,958, 4–24–62, Cl. 128—294.
Levin, David. Cooking pots. 3,045,664, 7–24–62, Cl. 126—390.
Levin, Eugene A., to Tally Register Corp. Tape perforator. 3,064,882. 11–20–62, Cl. 234—119.
Levin, Eugene A., and K. L. Fender, to Tally Register Corp. Perforated tape data reader. 3,027,072, 3–27–62, Cl. 235—61.11.
Levin, Ezra, V. K. Collins, D. S. Varner, J. D. Mosser, and G. Wolf ; said Collins, Varner, Mosser and Wolf, assors. to said Levin. Composition comprising octacosanol, triacontanol, tetracosanol, or hexacosanol, and methods employing same. 3,031,376, 4–24–62, Cl. 167—65.
Levin, Harry : *See*—
Diamond, William J., Levin, and Wood. 3,023,132.
Levin, Herman : *See*—
Swearingen, Judson S., and Levin. 3,041,843.
Levin, Jess. Compass map. 3,023,519, 3–6–62, Cl. 35—40.
Levin, John B. : *See*—
Cole, Addison D. Levin, and Repella. 3,028,595.
Levin, Leon. Glare reducer for oncoming headlights. 3,021,-173, 2–13–62, Cl. 296—97.
Levin, Morton S. : *See*—
Genser, Theodore, Kraemer, and Levin. 3,055,545.
Levin, Nathan, to Textile Machine Works. Knit suture for patterned fabric. 3,018,647, 1–30–62, Cl. 66—179.
Levin, Nathan, to Textile Machine Works. Tubular knit patterned fabric. 3,026,698, 3–27–62, Cl. 66—179.
Levin, Nathan. Method of knitting. 3,040,548, 6–26–62, Cl. 66—43.
Levin, Nathan. Method of forming a selvage for hosiery. 3 058,324, 10–16–62, Cl. 66—41.
Levin, Nathan. Method of preventing eyelets in hosiery. 3,069,880, 12–25–62, Cl. 66—43.
Levin, William G., and W. E. Simon. Combination ball bearing roller and hinge for luggage and the like. 3,057,002, 10–9–62. Cl. 16—24.
Levin, William G., and W. E. Simon. Ball bearing mounting for luggage and the like. 3,067,451, 12–11–62, Cl. 16—24.
Levine, Abraham, to Presto Lock Co. Fastener device for luggage cases and the like. 3,031,874, 5–1–62, Cl. 70—70.
Levine, Alvin S. : *See*—
Groupe, Vincent, Pugh, and Levine. 3,039,923.
Levine, Bernard B., and R. Phillips, to Bernard Plastics Molding Corp. Garment hanger. 3,047,196, 7–31–62, Cl. 223—96.
Levine, Beth. Ventilated shoe. 3,061,950, 11–6–62, Cl. 36—2.
Levine, Charles A., and T. G. Traylor, to The Dow Chemical Co. Method for radiation graft copolymerization of N-vinyl lactam monomers on acrylonitrile polymer substrates. 3,027,311, 3–27–62. Cl. 204—154.
Levine, Charles J. : *See*—
Colwill, Richard H., and Levine. 3,023,123.
Levine, Elliott. Apparatus for making separable bottom stops for slide fasteners. 3,035,541, 5–22–62. Cl. 118—211.
Levine, Harold A. : *See*—
Brodsky, Elihu, and Levine. 3,020,402.
Roth, Curt B., Horwitz, and Levine. 3.062,815.
Levine, Irving E., and E. Clippinger, to California Research Corp. Production of aliphatic alcohols. 3,018,308, 1–23–62, Cl. 260—640.
Levine, Mark. Alternate column selector for multiple column vending machines. 3,040,928, 6–26–62, Cl. 221—116.
Levine Marvin B. : *See*—
Lund, H Howard, and Levine. 3,070,110.
Sugarman, Meyer L., Jr., and Levine. 3,058,444.
Levine, Max. : *See*—
Burroughs, Ralph H., Jr., and Levine. 3,046,085.
Levine, Max, and B. M. Kuhn, to Hercules Powder Co. Method for solvent spinning polyolefins. 3,017,238, 1–16–62, Cl. 18—54.
Levine, Morris, and M. Yurcheshen, to Pittsburgh Plate Glass Co. Primer composition for adhesion of methyl methacrylate lacquer to metal, process and article produced thereby. 3,069,291, 12–18–62, Cl. 117—75.
Levine, Philip, to Ortho. Pharmaceutical Corp. Method of preparing anti-P serum and anti-Le^a serum. 3,016,332, 1–9–62, Cl. 167—78.
Levine, Ralph M. : *See*—
Mayne, John E. O., Warson, and Levine. 3,025,253.
Levine, Samuel W., and R. J. Autere, to Fairchild Camera and Instrument Corp. Electronic line scan and recording machine with oscillating cylinder. 3,022,373, 2–20–62, Cl. 178—6.6.
Levine, Sidney, and L. J. Schmerzler, to Imperial Electronics, Inc. Exercising machine. 3,056,603, 10–2–62, Cl. 273—58.
Levine, Sol, to Dorset-Rex, Inc. Cosmetic mass holder. 3,044,612 7–17–62. Cl. 206—56.
Levine, Stanley, to Litton Systems, Inc. Synchronous motor systems. 3,039,039, 6–12–62, Cl. 318—492.
Levine, William S., to Socony Mobil Oil Co., Inc. Water detection in hydrocarbon fuels. 3,041,870, 7–3–62, Cl. 73—53.
Leviness, Reid J. Disconnecting device for ignition systems. 3,054,470, 9–18–62, Cl. 180—82.
Le Vino, Robert E. : *See*—
Goldberg, Jack, Rosenberg, and Le Vino. 3,021,403.
Levinos, Steven : *See*—
Evans, Helene D., Mueller, and Levinos. 3,041,172.
Levinos, Steven, to General Aniline & Film Corp. Photographic reproduction process and apparatus therefor. 3,052,541, 9–4–62, Cl. 96—27.
Levinos, Steven, to General Aniline & Film Corp. Photopolymerization of vinyl monomers by means of a mixture of silver compounds as catalysts. 3,053,745, 9–11–62, Cl. 204—158.
Levinos, Steven, to General Aniline & Film Corp. Process of photopolymerization of compounds containing vinyl groups by means of uranium salts of organic acids as catalysts. 3,061,431, 10–30–62, Cl. 96—35.
Levinos, Steven, to General Aniline & Film Corp. Photopolymerization of vinyl monomers by means of silver compounds as catalysts promoted by amphoteric metal oxides. 3,050,390, 8–21–62, Cl. 96—35.
Levins, Dave B., to General Electric Co. Mass flowmeter. 3,036,462, 5–29–62, Cl. 73—194.
Levins, Dave B., to General Electric Co. Mass flowmeter. 3,036,292, 10–2–62, Cl. 73—194.
Levinsohn, Robert. Decorative bows and methods of making the same. 3,045,376, 7–24–62, Cl. 41—10.
Levinson, John O. : *See*—
Morrison, Joseph I. and G. F. 3,053,060.
Levinson, Lawrence S., to Olin Mathieson Chemical Corp. 16-methyl-hydroxy - 3,20 - diketopregnanes. 3,055,922, 9–25–62, Cl. 260—397.45.
Levinson, Norman. Tubed thread embodying thread end retainer. 3,032,292. 5–1–62, Cl. 242—125.2.
Levinson, Solomon, to Vitramon Inc. Dielectric ceramic composition. 3,068,107, 12–11–62, Cl. 106—39.
Levinstein, Moses A. : *See*—
Hoppin, George S., III, and Levinstein. 3,024,109.
Levinstein, Moses A., to General Electric Co. Metal clad blade. 3,041,040, 6–26–62, Cl. 253—77.
Levinthal, Jay G., to General Electric Co. Apparatus for pulse-width discrimination. 3,015,779, 1–2–62, Cl. 328—112.
Levis, William W., Jr. : *See*—
Patton, John T., Jr., Levis, and Langdon. 3,067,202.
Levis, William W., Jr., E. A. Weipert, and H. Rubinstein. Selective oxide formation with 2-p-dioxanone. 3,051,751, 8–28–62, Cl. 260—561.
Levison, Robert, and F. Hesselink, to Onderzoekingsinstituut Research, N.V. Spinning of cellulose film. 3,050,775, 8–28–62, Cl. 18—15.
Levit, Edward C. : *See*—
Berger, William E., Sr., and Levit. 3,026,628.
Levit, Edward C., to Whirlpool Corp. Dishwashing machine. 3,031,564, 4–24–62, Cl. 219—39.
Levitan, Maurice D., to General Binding Corp. Method and apparatus for binding perforated sheets. 3,038,180, 6–12–62, Cl. 10—2.
Levitas, Alfred D., to Sprague Electric Co. Preparation of multiple P-N junction semiconductor crystals. 3,066,051, 11–27–62, Cl. 148—1.5.
Levite, Robert C. Multi-use hairbrush. 3,047,898, 8–7–62, Cl. 15—159.
Leviton, Abraham, and M. J. Pallansch, to United States of America, Agriculture. Process for preparing sterilized concentrated milk products. 3,031,315, 4–24–62, Cl. 99—215.
Leviton, Abraham, and M. J. Pallansch, to United States of America, Agriculture. Process for preparing sterilized concentrated milk products. 3,065,086, 11–20–62, Cl. 99—212.
Leviton Mfg. Co., Inc. : *See*—
Ehrlich, Maximilian, and Poliak. 3,030,479.
Levitt, Louis H. : *See*—
Ostroff, Harry, and Levitt. 3,021,615.
Levitt, Milton R., to The Scholl Mfg. Co., Inc. Traction bunion corrector. 3,063,446, 11–13–62, Cl. 128—81.
Levitz. Norman M. : *See*—
Jonke, Albert A., Berghusen, and Levitz. 3,049,401.
Levkoff, Henry S. Slide box tray erecting machine. 3,031,-935, 5–1–62, Cl. 93—49.
Levunson, John O. : *See*—
Morrison, Joseph I. 3,037,317.
Levy, Alex A. Plasterer's tool. 3,018,499, 1–30–62, Cl. 15—235.4.
Levy, Andree P. : *See*—
Epelboin, Andree P. and I., and Sole. 3,060,113.
Levy, Donald J., to The Dow Chemical Co. Cleaning magnesium articles. 3,070,464, 12–25–62, Cl. 134—41.
Levy, Edward M., to Reflector-Hardware Corp. Display rack. 3,015,466, 1–2–62, Cl. 248—158.
Levy, Eli : *See*—
Bagno, Samuel M., and Levy. 3.029.420.
Cline, Robert A., and Levy. 3,022,390.
Levy, Eli, to Midland-Ross Corp. Treatment of aqueous solutions. 3,046,233, 7–24–62, Cl. 252—193.

Levy, Elizabeth, to Crystal Products Co., Ltd. Holders for lipsticks and like cosmetics. 3,044,613, 7–17–62, Cl. 206—56.
Levy, Harold H.: *See*—
Hovey, John M., and Levy. 3,037,126.
Levy, Harold H., and J. L. Tinsley. Regenerative broadening circuit. 3,018,393, 1–23–62, Cl. 307—88.5.
Levy, Herbert, to Ohmite Mfg. Co. Resistor structure. 3,068,441, 12–11–62, Cl. 338—317.
Levy, Hester F. Combination garment hanger means support and rear window ledge safety barrier for an automobile or the like. 3,044,674, 7–17–62, Cl. 224—42.34.
Levy, Irving M., and R. W. Leland, to General Motors Corp. Electric motor starting circuits. 3,045,159, 7–17–62, Cl. 318—103.
Levy, Maurice M., to Her Majesty the Queen in the right of Canada as represented by the Postmaster General. Feeding mechanism and method for flat articles. 3,015,389, 1–2–62, Cl. 209—111.5.
Levy, Milton. Apparatus for forming cylindrical tubes with joined overlapped edges. 3,066,721, 12–4–62, Cl. 156—461.
Levy, Paul M., to General Precision, Inc. Digital to analog converter. 3,051,938, 8–28–62, Cl. 340—347.
Levy, Sidney E., A. Blumenfeld, and B. C. Sharp, to Ling-Temco-Vought, Inc. Dual coaxial speaker. 3,028,927, 4–10–62, Cl. 181—27.
Lew Mfg. Co.: *See*—
Lamole, Raymond A. 3,027,873.
Lewandowski, Frank P.: *See*—
Jones, Clarence S., and Lewandowski. 3,018,392.
Jones, Clarence S., and Lewandowski. 3,040,194.
Jones, Clarence S. and Lewandowski. 3,040,195.
Lewendowski, Clement J. Cardboard toys. 3,042,399, 7–3–62, Cl. 272—1.
Lewin, Leon F., to United-Carr Fastener Corp. Two-piece plastic stud. 3,049,777, 8–21–62, Cl. 24—213.
Lewin, Morton H., to Radio Corp. of America. Binary adder employing negative resistance elements. 3,019,981, 2–6–62, Cl. 235—176.
Lewin, Seymour Z.: *See*—
Thompson, Kenneth W., Price, and Lewin. 3,065,156.
Lewing, Albert W.: *See*—
Griswold, Earle A., and Lewing. 3,038,214.
Lewinstein, Marcus, to Electro-Mechanical Research, Inc. Power spectrum analyzer. 3,020,477, 2–6–62, Cl. 324—77.
Lewinstein, Marcus, and W. G. Harries, to Electro-Mechanical Research, Inc. Time-of-occurrence transmitter. 3,054,050, 9–11–62, Cl. 324—68.
Lewinter, Sidney W., to International Telephone and Telegraph Corp. Pulse communication system. 3,067,291, 12–4–62, Cl. 179—15.
Lewis, Albert B., ½ to W. S. Horton. Means for hinging and latching both ends of a gate. 3,030,717, 4–24–62, Cl. 39—76.
Lewis, Albert M. Food steamer. 3,069,994, 12–25–62, Cl. 99—234.
Lewis, Amos L.: *See*—
Horton, Charles E., and Lewis. 3,032,232.
Horton, Charles E., and Lewis. 3,044,338.
Lewis, Amos L., and C. E. Horton. Medical bandage container and dispenser. 3,032,236, 5–1–62, Cl. 221—213.
Lewis, Arnold D., to Warner-Lambert Pharmaceutical Co. Derivatives of 3-(2-aminoalkyl)-5-indolol and process therefor. 3,037,031, 5–29–62, Cl. 260—319.
Lewis, Cameron D., R. N. MacDonald, and C. E. Schweitzer, to E. I. du Pont de Nemours and Co. Copolymers of formaldehyde and isocyanic acid. 3,043,803, 7–10–62, Cl. 260—67.
Lewis, Carolyn L., to Sun Oil Co. Purifying aromatic acids by treatment with morpholine. 3,067,249, 12–4–62, Cl. 260—525.
Lewis, Chalmer H., Jr.: *See*—
Valdettaro, Alarico A., Lewis, and Robinson. 3,018,372.
Lewis, Charles: *See*—
Eble, Thomas E., and Lewis. 3,020,274.
Lewis, Charles B.: *See*—
Dale, Ingvald, and Lewis. 3,055,514.
Lewis, Charles E., to American Cyanamid Co. Composition comprising an acrylonitrile polymer and a 2,4-diamino-5-aryl-6-hydroxy pyrimidine dye. 3,042,648, 7–3–62, Cl. 260—41.
Lewis, Charles E., A. P. Paul, S. M. Tsang, and J. J. Leavitt, to American Cyanamid Co. Azomonazone N-oxides, production and deoxygenation. 3,051,697, 8–28–62, Cl. 260—156.
Lewis, Charles T. Safety harness. 3,022,855, 2–27–62, Cl. 182—3.
Lewis, Charles W., to Westinghouse Electric Corp. Electroluminescent lamp structures. 3,018,402, 1–23–62, Cl. 313—108.
Lewis, Chas. S., & Co., Inc.: *See*—
Erd, Charles J. 3,048,118.
Lewis, Clifford J.: *See*—
Drobnick, James L., and Lewis. 3,052,316.
Lewis, Dan W., and C. F. Johnson, to McEvoy Co. Supporting apparatus. 3,068,027, 12–11–62, Cl. 285—144.
Lewis, Dennis A., and P. A. Small, to Imperial Chemical Industries Ltd. Polymethallyl alcohol and solutions and fibers thereof. 3,053,790, 9–11–62, Cl. 260—30.8.
Lewis, Donald B., to General Motors Corp. Air filter alarm. 3,052,207, 9–4–62, Cl. 116—117.
Lewis, Donald Travers; deceased, Elder's Trustee and Executor Co. Ltd., and G. Lewis, widow, executors. Device for automatically effecting injections with a hypodermic syringe. 3,064,650, 11–20–62, Cl. 128—218.
Lewis, Edgar R., Jr. Protective ventilated closure for vehicle windows. 3,032,351, 5–1–62, Cl. 280—150.
Lewis, Emory W. Vacuum cleaner attachment. 3,056,993, 10–9–62, Cl. 15—310.
Lewis Engineering Co.: *See*—
Knudsen, Knud J. 3,038,137.
Knudsen, Knud J., and Smith. 3,060,415.
Lewis Engineering & Mfg. Co., The: *See*—
Steede, Otho G. 3,028,803.
Lewis Engines, Inc.: *See*—
Thompson, Elvin T. 3,022,846.
Lewis, Eric C., ½ to Alumasc Ltd. Casks and valve means therefor. 3,024,800, 3–13–62, Cl. 137—209.
Lewis, Ernest E., and S. C. Caldwell, to General Electric Co. Electrical generating system. 3,034,034, 5–8–62, Cl. 322—23.
Lewis, Evan T., to Jacobsen Mfg. Co. Gang hitch for lawn mowers or the like. 3,058,280, 10–16–62, Cl. 56—6.
Lewis, Evan T., to Jacobsen Mfg. Co. Power lawn mower. 3,058,281, 10–16–62, Cl. 56—7.
Lewis, Floyd V., to Sylvania Electric Products Inc. Pulse shaping circuit. 3,019,391, 1–30–62, Cl. 328—34.
Lewis, Frederick, to Lewis-Parham Corp., Inc. Hair straightening method and apparatus. 3,065,759, 11–27–62, Cl. 132—118.
Lewis, G. B., Co.: *See*—
Frater, Allen H. 3,052,373.
Lewis, Geider V.: *See*—
Koller, Gaylord G., and Lewis. 3,024,795.
Lewis, George E. Gear train. 3,040,601, 6–26–62, Cl. 74—740.
Lewis, Gordon M., to Bristol Siddeley Engines Ltd. Rotary compressors or turbines. 3,029,011, 4–10–62, Cl. 230—114.
Lewis, Grace: *See*—
Lewis, Ronald T. 3,064,650.
Lewis, Harvey M. Reenforced hollow circular plastic objects. 3,022,802, 2–27–62, Cl. 138—125.
Lewis, Hector E.: *See*—
Applegate, Leslie T., Jr., and Lewis. 3,037,209.
Biggs, Ernest R., Jr., and Lewis. 3,046,981.
Lewis, Henry, and F. Triolo, to Bailey Meter Co. Combustion control for a furnace fired with fuels having different oxygen-excess air characteristics. 3,049,300, 8–14–62, Cl. 236—15.
Lewis-Howe Co.: *See*—
Lanham, Philip H., Jack, and Harvath. 3,062,352.
Pitkin, Courtney G., and Mitra. 3,062,714.
Lewis, Idwal O.: *See*—
Lambert, James E., and Lewis. 3,068,791.
Lewis, Irvin D. Disposable cleaning pad. 3,060,486, 10–30–62, Cl. 15—539.
Lewis, James C.: *See*—
Rorem, Edward S., and Lewis. 3,066,081.
Michener, Harold D., and Lewis. 3,054,678.
Lewis, James M.: *See*—
Baldwin, Burton C. 3,062,582.
Matthews, Joseph E. 3,061,368.
Lewis, James T., Jr., C. A. Crabiel, and R. R. Cowden, to The Lewis Welding & Engineering Corp. Abrading machine for surface finishing work pieces. 3,020,678, 2–13–62, Cl. 51—14.
Lewis, James W.: *See*—
Mottician, John, Hubard, and Lewis. 3,043,100.
Lewis, Jay L., and P. D. Rowan. Fast action index fixture. 3,055,671, 9–25–62, Cl. 279—51.
Lewis, Jean L.: *See*—
Landsberg, Meyer I. Lastnik, and Lewis. 3,059,364.
Lewis, Jesse M., to Allied Paint Mfg. Co. Pipe coating apparatus. 3,033,468, 5–8–62, Cl. 239—215.
Lewis, John A.: *See*—
Bonath, Klaus, Endter, De Rycke, Lewis, and Rippon. 3,069,335.
Lewis, John B.: *See*—
Crosby, Alton L., and Lewis. 3,034,663.
Lewis, John M.: *See*—
De Brosse, Kenneth L., and Lewis. 3,060,755.
Lewis, John M., to J. C. Thompson Tool & Die, Inc. Micrometer apparatus. 3,040,422, 6–26–62, Cl. 29—240.
Lewis, John R., and P. R. Dickinson. Automatic waste bowl flusher. 3,024,469, 3–13–62, Cl. 4—99.
Lewis, Karl R., to Browning Industries, Inc. Sling swivel for guns. 3,061,965, 11–6–62, Cl. 42—85.
Lewis, Kenneth. Swimming pool filter device. 3,069,014, 12–18–62, Cl. 210—169.
Lewis, Kenneth E., to Hughes Aircraft Co. Radio-frequency transistor gate apparatus. 3,069,567, 12–18–62. Cl. 307—88.5.
Lewis, Linford H. Receptacle apparatus. 3,047,185, 7–31–62, Cl. 220—18.
Lewis, Lloyd G., L. G. Whitesell, and I. Ginsburgh, to Standard Oil Co. Electronic arbitrary function generator. 3,037,123, 5–29–62, Cl. 250—217.
Lewis, Louis S., and I. Cooper, to Marson Corp. Process for masking and spray painting. 3,032,433, 5–1–62, Cl. 117—38.
Lewis, Margery F. Flexible and collapsible tub. 3,026,539, 3–27–62. Cl. 4—177.
Lewis, Oliver G.: *See*—
Heigl, John J., Wilson, and Lewis. 3,050,994.
Lewis, Oliver G., to Esso Research and Engineering Co. Interlocking control system. 3,027,723, 4–3–62, Cl. 60—97.

Lewis, Oliver G., to Esso Research and Engineering Co. Vehicle hold-down device. 3,054,287, 9–18–62, Cl. 73—117.
Lewis, Orrin E., to Speed Flow, Inc. Variable speed and torque transmitting fluid clutches. 3,050,167, 8–21–62, Cl. 192—61.
Lewis, Oswald, to Ekco Products Co. Method of providing decorative coatings on wood products by tumbling. 3,066,045, 11–27–62, Cl. 117—109.
Lewis-Farnan Corp., Inc.: *See*— Lewis, Frederick. 3,065,759.
Lewis, Peter L.: *See*— Ord, Geoffrey, and Lewis. 3,031,587.
Lewis, Raymond D. Boat trailer. 3,058,608, 10–16–62, Cl. 214—505.
Lewis, Richard G., to Birwelco Ltd. Apparatus for performing repetitive operations automatically upon the periphery of a cylindrical tube or the like. 3,042,793, 7–3–62, Cl. 219—103.
Lewis, Richard L.: *See*— Larsen, Lester J., and Lewis. 3,019,816.
Lewis, Richard W.: *See*— Hughes, Herbert D., Lewis, and Partridge. 3,026,365.
Lewis, Robert A., to Kaiser Aluminum & Chemical Corp. Electrolytic production of aluminum. 3,034,972, 5–15–62, Cl. 204—67.
Lewis, Robert E., and R. J. Meltzer, to Bausch & Lomb Inc. Image forming element. 3,060,806, 10–30 62, Cl. 88—57.
Lewis, Robert P. Clutch discs. 3,025,686, 3–20–62, Cl. 64—30.
Lewis, Roy L., Jr. Fishing pole holder and actuator. 3,055,-135, 9–25–62, Cl. 43—15.
Lewis, Samuel. Inhalation apparatus. 3,017,882, 1–23–62, Cl. 128—198.
Lewis-Shepard Co.: *See*— Boyajian, Robert S., and Becker. 3,051,265.
Garbarino, Americo F. 3,027,174.
Lewis, Thomas E.: *See*— Hedgecock, Durwood J., Lewis, and Nielsen. 3,055,241.
Lewis, Thomas J. Skin cream containing low gel strength, low viscosity gelatin. 3,016,334, 1–9–62, Cl. 167—91.
Lewis, Thomas M., to National Research Development Corp. Apparatus for processing hides and skins. 3,024,639, 3–13–62, Cl. 69—42.
Lewis, Wallace E., and H. R. Humphreys, Jr. Pulley rings for purse seines. 3,064,384, 11–20–62, Cl. 43—14.
Lewis, Wallace J., and G. E. Faulkner, to The Battelle Development Corp. Welding fluxes. 3,023,133, 2–27–62, Cl. 148—26.
Lewis, Warren K.: *See*— Love, Robert M., Comeaux, Winegartner, Corneil, and Lewis. 3,041,274.
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Lewis, Willard D., to Bell Telephone Laboratories, Inc. Microwave carrier logic circuits. 3,044,017, 7–10–62, Cl. 328—92.
Lewis, William G., and J. W. Wagner, to Xerox Corp. Xerographic developing apparatus. 3,067,720, 12–11–62, Cl. 118—308.
Lewis, William H., to Acme-McCrary Corp. Apparatus for varying the number of courses in knitted articles. 3,054,-281, 9–18–62, Cl. 66—155.
Lewis, William L. Aerodynamic propulsion unit. 3,047,251, 7–31–62. Cl. 244—12.
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Lewus, Alexander J. Capacitor motors. 3,036,255, 5–22–62, Cl. 318—221.
Leybold Anlagen Holding A.G.: *See*— Thees, Richard. 3,059,396.
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Nerge, Wilhelm. 3,027,651.
Leybold's, E., Nachfolger: *See*— Brill, Klaus. 3,053,439.
Leybourn, Charles W., and G. W. Gensler, to Leybourn Specialties, Inc. Map holder and viewing device. 3,065,668, 11–27–62, Cl. 88—39.
Leybourn Specialties, Inc.: *See*— Leybourn, Charles W., and Gensler. 3,065,668.
Leybourne, Harold S., to Texama Ltd. Knitted carpet. 3,066,-513, 12–4–62. Cl. 66—190.
Leyenberger, John, and J. D. McGhee, to Minneapolis-Honeywell Regulator Co. Measuring apparatus. 3,056,936, 10–2–62, Cl. 338—67.
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L'Hommedieu, Paige D., to Chicopee Mfg. Corp. Reinforced nonwoven fabrics. 3,068,547, 12–18–62, Cl. 28—78.
Li, Kan, to Radio Corp. of America. Converter circuits employing negative resistance elements. 3,062,970, 11–6–62, Cl. 307—88.5.
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Li, Tingye, to Bell Telephone Laboratories, Inc. Cross-talk cancellation apparatus for broadband microwave radio links. 3,020,343, 2–6–62, Cl. 343—100.
Li, Yao T. Mass flowmeter. 3,038,334, 6–12–62, Cl. 73—194.
Liang, O-Lung: *See*— General, Norman T., and Liang. 3,054,488.
Liantonio, Vito, and J. B. Minnich, to Curtiss-Wright Corp. Diaphragm construction. 3,021,859, 2–20–62, Cl. 137—101.
Liao, Chien-Wei: *See*— Fay, Philip S. Hook, Hughes, and Liao. 3,031,280.
Liao, Hsiang P.: *See*— Knobloch, James O., and Liao. 3,033,899.
Liao, Tseng W.: *See*— Camilli, Guglielmo, and Liao. 3,032,728.
Liautaud, Philip J., to Fendall Co. Eye protective spectacle type goggle. 3,016,797, 1–16–62, Cl. 88—43.
Libánský, Jiří: *See*— Svatý, Vladimír, and Libánský. 3,065,770.
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Libbey-Owens-Ford Glass Co.: *See*— Babcock, Eugene W. 3,023,542.
Badger, Alfred E., Lehr, and Kowalka. 3,027,607.
Boicey, James H., and Cowley. 3,029,177.
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Browne, Charles M. 3,046,433.
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Davis, Donald A., and Cowley. 3,048,943.
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Hofmann, John J., and Esling. 3,020,376.
Hubbard, William J., and Flaherty. 3,050,839.
Laine, Leslie H., and Hagedorn. 3,023,543.
McCown, William E., and McAuley. 3,022,202.
Ogle, James C., Jr., and Barkley. 3,053,698.
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Peters, Homer D. F. 3,028,783.
Rodman, Frank A., and Ermlich. 3,025,749.
Roetter, Robert P. 3,050,985.
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Stickel, Allwin. 3,060,708.
Wampler, David M. 3,034,632.
White, Gerald. 3,020,677.
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Libby, McNeill & Libby: *See*— Cahill, James M. 3,033,028.
Engelland, George C. 3,024,116.
Libby, Robert E.: *See*— Pratt, Addison H., Jr., and Libby. 3,039,148.
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Liberty Engineering Co.: *See*— Long, Fleming D. 3,020,744.
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Liberty, Harry Clamps for pipes, cables, and the like. 3,027,128. 3–27–62 Cl. 248—74.
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Libik, Albert: *See*— Barabás, Janos, Zselyonka, Kiss, and Libik. 3,046,837.
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Pápa, Alfréd, Szilvay, and Zombory. 3,044,455.
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Suberkrub, Max C. 3,068,330.
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Voertman, Kenneth W., and Lich. 3,022,749.
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Lich, Richard L., to General Steel Industries, Inc. Turntable support. 3,030,074, 4–17–62, Cl. 254—93.
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Lichtenwalter, Myrl: *See*—
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Liebendorfer, Georgia R. Nursing bottle holder. 3,065,944, 11–27–62, Cl. 248—102.
Liebenthal, John H., to Poor & Co. Tie plate bearing anchor. 3,019,988, 2–6–62, Cl. 238—327.
Liebenthal, John H., to Poor & Co. Rail anchor made of plate steel. 3,044,709, 7–17–62, Cl. 238—327.
Lieber, Gustav H. Engine mounting system. 3,024,758, 3–13–62, Cl. 115—41.
Lieber, Philip B. Countertop construction. 3,046,074, 7–24–62, Cl. 312—140.1.
Lieber, Philip B. Louvered doors. 3,068,536, 12–18–62, Cl. 20—35.
Lieberman, Aaron L. Photographic slide mount. 3,069,795, 12–25–62, Cl. 40—152.
Lieberman, Emanuel R.: *See*—
Pepper, Rollin E., and Lieberman. 3,016,328.
Lieberman, Erwin P., to E. I. du Pont de Nemours and Co. Process for curing chlorosulfonated polyethylene elastomers. 3,026,294, 3–20–62, Cl. 260—45.5.
Lieberman, Irving, L. Zernow, and C. M. Hogan, to Aerojet-General Corp. Method for producing a shaped charge. 3,034,393, 5–15–62, Cl. 86—1.
Lieberman, Jay B., and G. Ludwigson, said Ludwigson assor. to said Lieberman. Portable printing press. 3,062,136, 11–6–62, Cl. 101—287.
Lieberman, Julius, and H. N. Rifkin, to Crest Tool and Mfg. Co., Inc. Applicator. 3,056,987, 10–9–62, Cl. 15—210.
Lieberman, Walter G.: *See*—
McMaster, Archie J., Lieberman, and Stastny. 3,054,005,
Liebermann, John, to Ranco Inc. Dryer control apparatus. 3,060,591, 10–30–62, Cl. 34—55.
Liebermann, Leonard N., to United States of America, Navy. Hydrophone fluid condition monitor. 3,046,780, 7–31–62, Cl. 73—53.
Liebert, Clarence P.: *See*—
Schramm, Harry B., and Liebert. 3,040,808.
Liebeskind, James A.: *See*—
Fleischer, David, and Liebeskind. 3,070,308.
Liebherr, Hans, and E. Reich. Rotary tower crane. 3,045,-837, 7–24–62, Cl. 212—46.
Liebherr, Hans, and E. Reich. Rotary tower crane. 3,053,-398, 9–11–62, Cl. 212—46.
Liebig, Joseph M., to Illinois Milling, Inc. Oil seal. 3,027,-167, 3–27–62, Cl. 277—171.
Liebling, Raymond, and R. Steckler, to Nopco Chemical Co. Condensate of ethylene and an alkylated bis-phenol. 3,064,057, 11–13–62, Cl. 260—613.
Liebrecht, Klaus: *See*—
Brandt, Fritz, Nees, and Liebrecht. 3,032,407.
Liebreich, Oscar P., to General Motors Corp. Method and mechanism for forming annular grooves. 3,068,550, 12–18–62, Cl. 29—148.4.
Liebscher, Arthur, to Electronics, Inc. Shearing tool. 3,062,545, 11–6–62, Cl. 140—1.
Liechti, Hans W., to Ciba Ltd. Water-insoluble disazo-dyestuffs. 3,037,014, 5–29–62, Cl. 260—187.
Liechti, Hans W., to Ciba Ltd. Water-insoluble disazo-dyestuffs. 3,060,168, 10–23–62, Cl. 260—186.
Liechti, Hans W., and R. Ruegg, to Ciba Ltd. Complex copper compounds of azo dyestuffs. 3,057,845, 10–9–62, Cl. 260—146.
Liedberg, Kurt H., and S. R. Zernell, to Atlas Copco Aktiebolag. Dental apparatus. 3,049,805, 8–21–62, Cl. 32—22.
Liedberg, Kurt H., and S. F. A. Peterson, to Atlas Copco Aktiebolag. Fluid dispensing apparatuses for dental engines. 3,069,776, 12–25–62, Cl. 32—28.
Liedeker, Morris, Jr. Cabinet for cigarette vender. 3,039,-835, 6–19–62, Cl. 312—100.
Liedtke, Gerhard: *See*—
Ehlers, Max, Liedtke, and Hilgert. 3,046,104.
Liehe, Hubert J.: *See*—
Rosscup, Robert J., and Liehe. 3,015,625.
Liell, Irene M. Multiple calf feeder. 3,042,002, 7–3–62, Cl. 119—71.
Liem, Robert C.: *See*—
Johnstone, Theodore H., and Liem. 3,020,075.

Liem, Robert C., and E. F. Sarosy, to General Motors Corp. Latching means for an automobile door. 3,031,221, 4–24–62, Cl. 292—216.
Lien, Gunder, Jr., to General Electric Co. Surface heating unit construction. 3,016,445, 1–9–62, Cl. 219—37.
Lien, Harold G., to Bislman Mfg. Co. Truck body cover assembly. 3,061,358, 10–30 62, Cl. 296—26.
Lier, Douglas W.: *See*—
Dike, Robert S., Lier, Schofield, and Tuck. 3,030,547.
Liers, Arthur H., to Acoustica Associates, Inc. Detection of leaks in sealed units. 3,004,466, 11–20–62, Cl. 73—45.5.
Lieschke, Wolfgang G. Container closure. 3,036,756, 5–29–62, Cl. 229—66.
Liesenfeld, Peter. Adjustable trusses. 3,029,913, 4–17–62, Cl. 189—37.
Lieser, Ernst: *See*—
Schnell, Albert, Reinsch, and Lieser. 3,043,186.
Lieser, Mathias J., to Mead Specialties Co., Inc. Poppet valve. 3,033,512, 5–8–62, Cl. 251—21.
Lieser, Mathias J., to Mead Specialties Co., Inc. Valve. 3,056,423, 10–2–62, Cl. 137—493.7.
Lieske, Edgar: *See*—
Budnowski, Manfred, Lieske, and Dohr. 3,065,186.
Liess, Richard K., to Caterpillar Tractor Co. Diagonal brace mounting for tiltable bulldozer blade. 3,025,620, 3–20–62, Cl. 37—144.
Liesse, Maurice. Striking machine, chiefly nailing, clamping and the like percussion machines. 3,042,008, 7–3–62, Cl. 123—7.
Liessen, Karl-Heinz, to Kleinewefers, Joh., Sohne. Fast exchange device for printing rollers of printing machines. 3,063,368. 11–13–62, Cl. 101—178.
Life-Like Products, Inc.: *See*—
Meyer, Gerson. 3,024,940.
Liffner, Sture. Garment hanger. 3,031,114, 4–24–62, Cl. 223—95.
Lifson, William E.: *See*—
McTurk, William E., Lifson, and Duncan. 3,061,420.
Lift-A-Lift: *See*—
Mitchell, Maurice E. 3,031,027.
Lifton, Lewis. Brief case. 3,023,794, 3–6–62, Cl. 150—1.6.
Lifton, Lewis. Brief case frame. 3,057,388, 10–9–62, Cl. 150—1.6.
Liftron Corp.: *See*—
Bornemann, William C. 3,021,131.
Liggett, Francis S.: *See*—
Buckmann, John P., Liggett, and Wiseman. 3,031,278.
Keller, James L., Liggett, and Wilson. 3,020,134.
Liggett Irving C.: *See*—
Svigals, Jerome, and Liggett. 3,064,239.
Liggett, John A.: *See*—
Ecker, Mario E., and Liggett. 3,016,210.
Liggett, Robert W., to Atlas Chemical Industries, Inc. Optical bleaches. 3,030,224, 4–17–62, Cl. 117—33.5.
Liggett, Robert W., and H. L. Hoffman, Jr., to Atlas Chemical Industries, Inc. Preparation of 4-methylimidazole from glucose. 3,030,376, 4–17–62, Cl. 260—309.
Liggio, Leo L. Interchangeable bearings. 3,026,152, 3–20–62, Cl. 308—15.
Ligh, David R. Resilient closure support. 3,038,434, 6–12–62, Cl. 114—202.
Ligh, David R. Hatch cover arrangement. 3,050,026, 8–21–62, Cl. 114—202.
Light, Bert. Collars for shirts. 3,041,626, 7–3–62, Cl. 2—131.
Light, Gordon S.: *See*—
Feiler, Alfred M., and Light. 3,059,590.
Light, John S.: *See*—
Eng, Albert, Hnilicka, Light, and Walsh. 3,040,702.
Light Metals Corp.: *See*—
Smith, Benjamin F. 3,058,587.
Light Metals Research Laboratory, Inc.: *See*—
Pisarris, George A. 3,018,789.
Lightcap, Joseph F. Archery bows. 3,015,327, 1–2–62, Cl. 124—23.
Lightelier, Inc.: *See*—
Chan, Kingsley. 3,040,172.
Lighter, Stephen. Food heater. 3,026,399, 3–20–62, Cl. 219—35.
Lighting Products, Inc.: *See*—
Davis, Donald W. 3,049,616.
Lightolier Inc.: *See*—
Florence, Noel S. 3,024,356.
Lignes Telegraphiques & Telephoniques: *See*—
Chiron, Bernard C. 3,020,494.
Maniere, Maurice A. F. J., and Benoit-Gonin. 3,023,269.
Paquet, Jean A. G. 3,020,487.
Pierrot, André, and Lescroel. 3,031,405.
Pierrot, Andre, and Lescroel. 3,057,802.
Lignimpex Fa-, Papir-es Tüzelöanyag Külkereskedelmi Vallalat: *See*—
Rosner, Miklós. 3,041,877.
Ligon, Charles B. Car washing apparatus. 3,037,707, 6–5–62, Cl. 239—310.
Ligon, Elmer R., to W. S. Dickey Clay Mfg. Co. Coupling for ceramic pipe. 3,054,627, 9–18–62, Cl. 285—291.
Liguori, Anthony: *See*—
Sharin, Samuel, Sheridan, Liguori, and Kishi. 3,055,978.
Liimatainen, Teuvo A., and W. R. Jewell, to Carrier Corp. Electric motor. 3,060,336, 10–23–62, Cl. 310—68.
Liisberg, Sven: *See*—
Godtfredsen, Wagn O., and Liisberg. 3,047,566.
Likely, Newton A., and H. A. Myers, to Raymond De-Icer & Engineering Co., Inc. Directional valve. 3,053,279, 9–11–62, Cl. 137—622.
Liker, Jack, to Burndy Corp. Protective device for the electrical system of aircraft. 3,030,473, 4–17–62, Cl. 200—123.
Liles, Joseph R., Jr., C. B. Corley, Jr., and S. E. Loy, III, to Jersey Production Research Co. Apparatus for varying well pump stroke. 3,051,237, 8–28–62, Cl. 166—75.
Liles, Robert L., Jr.: *See*—
Russell, Javan P., and Liles. 3,058,438.
Lilien, Kazimir K., and E. F. Glabe, to National Bakers Services. Peanut butter product and process of making the same. 3,037,865, 6–5–62, Cl. 99—128.
Lilisunde, Bernhard: *See*—
Treffner, Arvo, Lilisunde, and Brunberg. 3,043,915.
Liljeberg, Elsa I.: *See*—
Liljeberg, Martin J. 3,042,094.
Liljeberg, Martin J., deceased; E. I. Liljeberg, executrix. Locking screw with expanding means at each end. 3,042,-094, 7–3–62, Cl. 151—31.
Liljeblad, Ragnar, and K. D. Madsen, to Allmanna Svenska Electriska Aktiebolaget. Construction of the distribution and collecting vessels for the cooling medium in heterogeneous nuclear reactors. 3,026,256, 3–20–62, Cl. 204—193.2.
Liljestrand, Walter E.: *See*—
Roberts, Emmett T., Jr., Liljestrand, and Young. 3,063,-467.
Lill, Etchison G.: *See*—
Jepson, Ivar, and Lill. 3,035,386.
Lill, Etchison G., to Sunbeam Corp. Self-propelled lawn mower. 3,035,385, 5–22–62, Cl. 56—25.4.
Lill, Etchison G., to Sunbeam Corp. Handle for rotary lawn mower. 3,038,737, 6–12–62, Cl. 280—47.37.
Lill, Etchison G., to Sunbeam Corp. Overload clutch for power lawn mower. 3,035,675, 5–22–62, Cl. 192—56.
Lill, Melvin H., and L. J. Stamper, to FMC Corp. Wheel spinner. 3,030,815. 4–24–62, Cl. 74—16.
Lill, Melvin H., to FMC Corp. Mounting for wheel balancing device. 3,017,154, 1–16–62, Cl. 248—205.
Lille, Lucille M., to Minnesota Mining and Mfg. Co. Display card for use in conjunction with a bow of decorative ribbon. 3 026,639, 3–27–62, Cl. 40—10.
Lilleberg, Richard N., to The Texan Corp. Abrading disc mount. 3,053,063, 9–11–62, Cl. 64—11.
Lillie, Gordon E., to Bryant Chucking Grinder Co. Machine tool control mechanism. 3,043,062, 7–10–62, Cl. 51—165.
Lillienberg, August W., to Lindberg Engineering Co. Multiple zone heating furnace. 3,019,006, 1–30–62, Cl. 263—42.
Lilliendahl, William C., and G. H. Keith, to Westinghouse Electric Corp. Method for purifying tungstic acid. 3,054,-654, 9–18–62, Cl. 23—22.
Lillison Implement Co.: *See*—
Roberts, Joe E., and Davenport. 3,041,810.
Lillquist, Arvid E., to Cutler-Hammer, Inc. Energizing control system for a plurality of electromagnets. 3,043,990, 7–10–62, Cl. 317—123.
Lilly, Eli, and Co.: *See*—
Burroughs, Wise, and Means. 3,031,173.
Cannon, William N. 3,031,485.
Easton, Nelson R., and Kornfeld. 3,067,101.
Farkas, Eugene, and Rapala. 3,015,666.
Kline, Granville B. 3,028,424.
Leonard, Nelson J., and Peters. 3,027,380.
McCormick, Mack H., and McGuire. 3,067,099.
McGuire, James M., and Mann. 3,018,220.
Murphy, Hubert W. 3,040,025.
Pohland, Albert. 3,021,360.
Pohland, Albert. 3,021,361.
Robbins, Enos B. 3,036,954.
Saeger, Albert. 3,061,514.
Soper, Quentin F. 3,063,822.
Stephens, Verlin C. 3,065,261.
Sumaris, Raymond F. 3,030,270.
Van Heyningen, Earle M. 3,057,777.
Lilly, Howard C.: *See*—
Darby, Richard T., Baskin, and Lilly. 3,015,226.
Lilly, Mason M.: *See*—
Wright, Charles B., Jr., and Lilly. 3,053,323.
Lilly, Virley W. Boring type continuous mining machine. 3,045,991. 7–24–62, Cl. 262—9.
Liloia, Gerald J.: *See*—
Goudie, Alexander J., and Liloia. 3,030,235.
Liloia, Gerald J., G. A. Crowe, Jr., and H. L. Beidler, to Johnson & Johnson. Surgical dressing. 3,051,171, 8–28–62, Cl. 128—156.
Liloia, Gerald J., G. A. Crowe, Jr., and H. L. Beidler, to Johnson & Johnson. Bandage. 3,053,253, 9–11–62, Cl. 128—156.
Lily-Tulip Cup Corp.: *See*—
Easton, Irving D., and O'Neil. 3,069,048.
Lilya, Eric E. Shirt hanger. 3,045,881, 7–24–62, Cl. 223—92.
Liman, Norman, and C. F. Klein, to Lord Baltimore Press, Inc. Non-bulging package and method of making. 3,062,-429, 11–6–62. Cl. 229—34.
Limbach, Anthony P., to Union Carbide Corp. Apparatus for distributing plastic material. 3,063,095, 11–13–62, Cl. 18—12.
Limbeck, Lawrence R. Traction strap for prostatic surgery. 3,019,791, 2–6–62, Cl. 128—349.
Limberger, Walter, to Lumoprint Zindler K.G. Copying of documents. 3,021,817, 2–20–62, Cl. 118—637.

Limberger, Walter, to Lumoprint Zindler K.G. Device for developing and fixing xerographic images. 3,021,818, 2–20–62, Cl. 118—637.
Limberger, Walter, to Lumoprint Zindler KG. Copying apparatus. 3,024,716, 3–13–62, Cl. 95—75.
Limberger, Walter, to Lumoprint Zindler K.G. Apparatus for making copies. 3,033,095, 5–8–62, Cl. 95—75.
Limberger, Walter, to Lumoprint Zindler KG. Apparatus for making copies. 3,044,386, 7–17–62. Cl. 95—77.5.
Limberger, Walter, to Lumoprint Zindler K.G. Copying devices. 3,054,340, 9–18–62, Cl. 95—89.
Limberger, Walter, to Lumoprint Zindler K.G. Device for preparing a copy by means of latent electrostatic images. 3,058,405, 10–16–62, Cl. 93—1.7.
Limberger, Walter, to Lumoprint Zindler K.G. Apparatus for making copies. 3,058,409, 10–16–62, Cl. 95—75.
Limberger, Walter, to Lumoprint Zindler K.G. Device for producing copies. 3,058,410, 10–16–62, Cl. 95—77.5.
Limberger, Walter, to Lumoprint Zindler K.G. Device for developing a latent electrostatic image. 3,059,614, 10–23–62, Cl. 118—637.
Limberger, Walter, to Lumoprint Kindler KG. Photographic developing apparatus. 3,062,123, 11–6–62, Cl. 95—89.
Limburg, Pieter C.: *See*—
Buurman, Aart, Limburg, and Vroom. 3,033,696.
Limerick, Jack McK., and W. A. Nikkel. Apparatus for producing wax impregnated corrugated board. 3,031,355, 4–24–62, Cl. 156—390.
Limit Gages, Inc.: *See*—
Wajcik, Bernard F. 3,050,859.
Limited Engineering Group Ltd.: *See*—
Collins, Aubrey L. 3,028,462.
Limmer, Hans G. to Daimler-Benz Aktiengesellschaft. Vehicle having air springs capable of lifting the individual wheels of the vehicle. 3,064,994, 11–20–62, Cl. 280—124.
Limper, Arthur F.: *See*—
Brown, Palmer A., Kottong, Kraemer, and Limper. 3,053,875.
Limperos, George, to E. I. du Pont de Nemours and Co. Process for bonding vinyl copolymer to nylon fabric. 3,067,-085, 12–4–62, Cl. 156—327.
Limpert, Dean J. Process for manufacturing preserved fruits. 3,032,419, 5–1–62, Cl. 99—102.
Linabery, Linferd, Sr. Post puller device. 3,066,915, 12–4–62, Cl. 254—132.
Linabery, Linferd G., Sr. Pulling device. 3,048,368, 8–7–62, Cl. 254—130.
Linck, Klara: *See*—
Traben, Josef. 3,032,084.
Linck Maschinenfabrik und Eisengiesserei "Gatterlinck," Gebruder: *See*—
Traben, Josef. 3,032,084.
Lincoln, Arnold J., to Engelhard Industries, Inc. Rupture disc. 3,057,718, 10–9–62, Cl. 75—172.
Lincoln, Edward L., Jr., to Litton Systems, Inc. Photo-transducer signal compressor. 3,050,632, 8–21–62, Cl. 250—207.
Lincoln Electric Co., The:
Landis, George G. Parks, and Forss. 3,053,966.
Lincoln, Frank H., W. P. Schneider, and G. B. Spero, to The Upjohn Co. 6-substituted-6-methyl-pregnane series steroids and process for their production. 3,027,367, 3–27–62, Cl. 260—239.
Lincoln, Frank H., W. P. Schneider, and G. B. Spero, to The Upjohn Co. 6α,16α-dimethylpregnenes and intermediates. 3,030,360, 4–17–62, Cl. 260—239.55.
Lincoln, Frank H., Jr., G. B. Spero, and J. L. Thompson, to The Upjohn Co. 2α,6α-dimethylhydrocortisone and the 21-acetates thereof. 3,020,297, 2–6–62, Cl. 260—397.45.
Lincoln, Henry A.: *See*—
Klein, Walter A., and Lincoln. 3,028,834.
Lincoln, Herbert R.: *See*—
Windsor, Meredith M., and Lincoln. 3,021,735.
Lincoln, James E.: *See*—
Lentz, Charles M., and Lincoln. 3,064,853.
Lincoln, John W.: *See*—
Gordon, William J. J., Lincoln, and Sperry. 3,035,299.
Lincoln, John W., and W. J. J. Gordon, to Cataphote Corp. Artificial snow. 3,020,811, 2–13–62, Cl. 94—3.
Lincoln, Milan L., to Sylvania Electric Products Inc. Electrical chassis. 3,049,647, 8–14–62, Cl. 317—101.
Lincoln, Nicholas D.: *See*—
Gobbo, Edward, Sr., Lincoln, and Sepkoski. 3,065,751.
Lincoln, Paul A., to Ingersoll-Rand Co. Pressure fluid operated drill motor. 3,051,134, 8–28–62, Cl. 121—15.
Lincoln, Paul A., to Ingersoll-Rand Co. Drill mounting. 3,063,665, 11–13–62, Cl. 248—20.
Lincoln Tool & Mfg. Co.: *See*—
Gorski, Henry J., and Bakke. 3,052,418.
Lincors, Harry. Shoe flexing device. 3,039,207, 6–19–62, Cl. 36—58.5.
Lincourt, William R. Automobile frame straightener. 3,053,-305, 9–11–62, Cl. 153—48.
Lind, Arthur C., to Chain Belt Co. Cover for oil separators. 3,044,627, 7–17–62, Cl. 210—170.
Lind, Carl J.: *See*—
Rueckert, Dean E., and Lind. 3,020,686.
Lind, Evald T. G. Insert for vessels containing pills, tablets or the like. 3,033,409, 5–8–62, Cl. 215—100.
Lind, Francis E.: *See*—
Argentieri, Michael A., and Lind. 3,020,497.
Lind, John A., to Newton & Bennett Ltd. Hydraulic pressure intensifier. 3,039,271, 6–19–62, Cl. 60—54.6.
Lind, Kenneth R. Resin production. 3,025,264, 3–13–62, Cl. 260—47.
Lind, Nils S.: *See*—
Belau, Roger E., and Lind. 3,045,648.
Lind, Orbie E., Jr., and C. Hillegonds, to Sylvania Electric Products Co. Inc. Exposure meter and camera attachment. 3,023,682, 3–6–62, Cl. 95—10.
Lind, Wallace G., to Franklin Mfg. Co. Alternator protective circuit. 3,051,887, 8–28–62, Cl. 320—25.
Lind, Wilton H., to California Research Corp. Contacting of solids and gases. 3,070,621, 12–25–62, Cl. 260—465.
Lind, Wilton H., and J. B. Wilkes, to California Research Corp. Production of aromatic nitriles. 3,041,368, 6–26–62, Cl. 260—465.
Linda, Frank R., to International Paper Co. Method and apparatus for packing articles in flexible cases. 3,068,624, 12–18–62, Cl. 53—124.
Linda, Frank R., C. F. Klein, and G. H. Bickley, to International Paper Co. Charcoal briquet container and method of igniting same. 3,056,665, 10–2–62, Cl. 44—40.
Lindabery, John D., to Johns-Manville Corp. Recorder. 3,039,106, 6–12–62, Cl. 346—113.
Lindahl, Harold A., and H. Hennig, to The Pure Oil Co. Process of preparing fumaric acid. 3,025,321, 3–13–62, Cl. 260—533.
Lindau, Eric S. Film stopping mechanism for cameras. 3,019,697, 2–6–62, Cl. 88—16.
Lindbäck, Ulf R. O.: *See*—
Boeryd, Arne G. T., Lindbäck, Fredriksson, and Mitnitzky. 3,069,988.
Lindberg, Charles A.: *See*—
Reynolds, Eugene E., Lindberg, Avery, Munzing, and Thomas. 3,019,971.
Lindberg Engineering Co.: *See*—
Holz, George W. 3,046,378.
Holz, George W. 3,053,794.
Lillienberg, August W. 3,019,006.
McNair, Lyle W., Bjork, and Wuczkowski. 3,065,324.
Wuczkowski, Othmar R. 3,046,509.
Lindberg, Hans: *See*—
Andersson, Axel E. 3,053,294.
Lindberg, John E., Jr. Engine analyzer with self-synchronizing sweep. 3,034,343, 5–15–62, Cl. 73—116.
Lindberg, John E., Jr. Actuator employing certain oxides that reversibly elaborate and take up oxygen. 3,041,821, 7–3–62, Cl. 60—23.
Lindberg, John E., Jr. Fire detector installation and support bracket therefor. 3,043,545, 7–10–62, Cl. 248—49.
Lindberg, John E., Jr. Heat detection device. 3,064,245, 11–13–62, Cl. 340—227.
Lindberg, John E., Jr., and L. J. Cook. Engine analyzer employing cathode-ray tube. 3,056,918, 10–2–62, Cl. 324—16.
Lindberg, John F.: *See*—
Goertz, Raymond C., and Lindberg. 3,018,980.
Lindberg, Peter H. Tank-thimble attachment mechanism. 3,018,248, 1–9–62, Cl. 285—89.
Lindberg, Victor L.: *See*—
Irland, Max J., and Lindberg. 3,017,536.
Lindblad, Bengt I.: *See*—
Hellström, Börje T., and Lindblad. 3,067,409.
Lindblad, Lars A.: *See*—
Lindblad, Kurt G. L., and Lindblad. 3,036,165.
Lindblad, Lars A. Electric igniter. 3,056,350, 10–2–62, Cl. 102—28.
Lindblad, Robert L. Food supplement composition. 3,058,-828, 10–16–62, Cl. 99—23.
Lindblom, Carl A., to International Harvester Co. Motor vehicle cab mounting means. 3,059,958, 10–23–62, Cl. 296—35.
Lindblom, Erik D. Radial flow elastic fluid compressors or turbines. 3,032,318, 5–1–62, Cl. 253—95.
Lindblom, Eva M., ℀ to Gadget-of-the-Month Club, Inc. Mounting device for decorative items. 3,027,014, 3–27–62, Cl. 211—71.
Lindblom, Frank W., to Welsh Mfg. Co. Goggle with lifting cover. 3,016,542, 1–16–62, Cl. 2—14.
Lindblom, Frank W., to Welsh Mfg. Co. Goggle with lifting cover. 3,016,543, 1–16–62, Cl. 2—14.
Lindblom, Frank W., to Welsh Mfg. Co. Goggle with removable lens cover. 3,056,140, 10–2–62, Cl. 2—14.
Lindblom, Frank W., to Welsh Mfg. Co. Temple hinge mounting. 3,066,574, 12–4–62, Cl. 88—53.
Lindblom, Gordon P.: *See*—
Patton, John T., and Lindblom. 3,020,206.
Lindbloom, Henry E., to American-Marietta Co. Machine for cutting tile pipe. 3,015,143, 1–2–62, Cl. 25—107.
Lindbloom, Henry E., to American-Marietta Co. Method and machine for cuting tile pipe. 3,050,810, 8–28–62, Cl. 25—107.
Lindeboom, Herman: *See*—
Biello, Stephen J., and Lindeboom. 3,029,835.
Lindegren, Erik D. Multiple order receiving receptacle. Re. 25,287, 11–13–62, Cl. 150—49.
Lindell, John P., to Koehring Co. Hydraulic drive for trenching machine. 3,032,994, 5–8–62, Cl. 60—52.
Lindell, Nils: *See*—
Hilfing, Karl E., and Lindell. 3,045,898.
Lindeman, Richard J., and A. T. Monaco, to Motorola, Inc. Tuning apparatus having common vernier reactance. 3,069,638, 12–18–62, Cl. 334—51.

Lindeman, Robert D.: *See*—
Churchill, Gary B. 3,029,043.
Lindemann, Arthur W., to Minneapolis-Honeywell Regulator Co. Center of gravity control apparatus. 3,042,060, 7–3–62. Cl. 137—101.25.
Lindemann, Arthur W., to Minneapolis-Honeywell Regulator Co. Fluid quantity sensing apparatus. 3,056,296, 10–2–62. Cl. 73—304.
Lindemann, Arthur W. Portable corn popper. 3,059,567, 10–23–62. Cl. 99—238.6.
Lindemann, Howard C., and D. Mindheim, to Lindly & Co., Inc. Photo electric inspecting apparatus. 3,041,461, 6–26–62. Cl. 250—219.
Lindemann, Hans: *See*—
Wegner, Udo, and Lindemann. 3,054,438.
Lindemann, Hans, to Th. Calow & Co. Hydraulic pipe testing press. 3,058,337, 10–16–62. Cl. 73—41.
Lindemann, Hans, to Th. Calow, & Co. Machine tools. 3,059,514, 10–23–62. Cl. 82—20.
Lindemann, Hans, to Th. Calow & Co., Maschinenfabrik und Eisengiesserei. Method and apparatus for conveying elongated materials and articles. 3,059,794, 10–23–62. Cl. 214—152.
Lindemann, Richard J., and R. C. Richards, to Lockheed Aircraft Corp. Hot iron insulation stripping tool. 3,040,159, 6–19–62. Cl. 219—29.
Lindemann, Robert E., to Harris-Intertype Corp. Printing press throwoff mechanism and method. 3,030,884, 4–24–62. Cl. 101—218.
Lindemann, Robert E., to Harris-Intertype Corp. Duct roll drive. 3,064,564, 11–20–62. Cl. 101—351.
Lindemann, Robert F., to Diamond Alkali Co. Nitro-substituted alpha, alpha′ dichloro-P-xylene. 3,032,596, 5–1–62. Cl. 260—646.
Lindemann, Robert F., and R. J. Horvath, to Diamond Alkali Co. Ring-substituted halo alpha, alpha′-xylene-ols. 3,029,-290, 4–10–62. Cl. 260—618.
Lindemann, Waldemar, and F. van Endert; said van Endert assor. to said Lindemann. Scrap shearing machine. 3,049,-988, 8–21–62. Cl. 100—95.
Lindemann, Walter R. Egg cooker. 3,065,688, 11–27–62. Cl. 99—329.
Linden, August R., to Holub Industries, Inc. Electrical fish tape winder. 3,067,984, 12–11–62. Cl. 254—134.3.
Linden, Bernard R., to Fairchild Camera and Instrument Corp. Neutron detector. 3,067,329, 12–4–62. Cl. 250—83.1.
Linden, Günter, to Beteiligungs-und Patentverwaltungsgesellschaft mit beschrankter Haftung. Bucket wheel. 3,020,-656, 2–13–62. Cl. 37—190.
Linden, Gustave B.: *See*—
Dreyfuss, Paul D., Gaspar, and Linden. 3,053,655.
Gold, Marvin H., and Linden. 3,020,318.
Klager, Karl, and Linden. 3,020,319.
Linden, Herbert E. Method and apparatus for coating metals with molten aluminum. 3,027,268, 3–27–62. Cl. 117—51.
Linden Laboratories, Inc.: *See*—
Lagally, Paul. 3,028,297.
Linden, Paul I.: *See*—
Tesoro, Giuliana C., and Linden. 3,061,399.
Lindetal, Samuel J., to Bunny Bear Inc. Child's car seat. 3,023,-047, 2–27–62. Cl. 297—254.
Lindenberg, Glen W.: *See*—
Lindenberg, Milton L. and G. W. 3,027,731.
Lindenberg, Milton L. and G. W.; said G. W. Lindenberg assor. to said M. L. Lindenberg. Ice cube making machine. 3,027,731, 4–3–62. Cl. 62—138.
Lindenblad, Nils E., to Radio Corp. of America. Thermal power generating system. 3,040,113, 6–19–62. Cl. 136—4.
Lindenfelser, Richard, M. K. Layman, and M. K. Kilthau, to American Cyanamid Co. Structures comprising a modified diaminotrizinealdehyde resinous composition. 3,021,239, 2–13–62. Cl. 154—45.9.
Lindenmann, Adolf J.: *See*—
Jucker, Ernst, and Lindenmann. 3,041,343.
Jucker, Ernst, Lindenmann, and Rissi. 3,041,342.
Linder, Ernest G., to Radio Corp. of America. Semiconductor modulator. 3,048,797, 8–7–62. Cl. 332—31.
Linder, John G. Combination bench and conveyer. 3,038,-616, 6–12–62. Cl. 214—84.
Linder, Peter J. Tractor-semitrailer combination. 3,048,437, 8–7–62. Cl. 296—1.
Linder, William H. R., to Red Line Chemicals of Canada Ltd. Applicator system and fluid projecting gun therefor. 3,059,-858, 10–23–62. Cl. 239—413.
Linderfelt, Hal R.: *See*—
Beck, Niels J., Leach, and Linderfelt. 3,024,597.
Linderoth, Erik T. Thermodynamic combustion device using pulsating gas pressure. 3,035,413, 5–22–62. Cl. 60—39.77.
Linderoth, Rodney V. Lampshades. 3,022,417, 2–20–62. Cl. 240—108.
Lindgren, Erik A. Polar screen room. 3,070,646, 12–25–62. Cl. 174—35.
Lindholm, Edward J. Clamp. 3,033,559, 5–8–62. Cl. 269—205.
Lindinger, Alfred: *See*—
Tanner, Lawrence S., and Lindinger. 3,041,989.
Lindlaw, William, and E. J. Hensch, to Celanese Corp. of America. Polyurethane composition containing lithium phosphate and chlorinated phosphate ester. 3,041,296, 6–26–62, Cl. 260—2.5.
Lindley, Donald C., to Jersey Production Research Co. Oil recovery method. 3,064,729, 11–20–62. Cl. 166—9.
Lindley, Frederick A., Jr., to Smith-Meeker Engineering Co. Multiple target display system. 3,068,466, 12–11–62, Cl. 343—5.
Lindlof, James A.: *See*—
Warnock, William R., Lindlof, and Hemminger. 3,055,-435.
Lindly & Co., Inc.: *See*—
Lindemann, Howard C., and Mindheim. 3,041,461.
Lindman, George E., to Mag-Powr Games, Inc. Batter mechanism for simulated game. 3,069,166, 12–18–62, Cl. 273—89.
Lindmark, Alvar N. Elevator plant and its guide rails. 3,016,989, 1–16–62, Cl. 187—19.
Lindmark, Johan G. Half-tone color prints. 3,044,202, 7–17–62. Cl. 41—21.
Lindner, Arno. Method and apparatus for smelting and casting metals or the like. 3,068,538, 12–18–62, Cl. 22—65.
Lindner, Delmar E.: *See*—
Johnston, Herbert N., and Lindner. 3,067,044.
Lindner, Ernst: *See*—
Ehrhart, Gustav, Hennig, Lindner, and Ott. 3,051,618.
Ehrhart, Gustav, Hennig, Lindner, and Ott. 3,051,742.
Ehrhart Gustav, Hennig, Lindner, and Ott. 3,063,899.
Hennig, Ingeborg, Lindner, and Ott. 3,042,712.
Schmitt, Karl, Hennig, Lindner, and Ott. 3,045,043.
Lindner, Frank W. Drapery track and lubricator therefor. 3,025,560, 3–20–62, Cl. 16—87.6.
Lindner, Fritz, and J. Schmidt-Thome, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Brüning. Cross-linked gelatin plasma substitute and production thereof. 3,057,782, 10–9–62, Cl. 167—78.
Lindner, Gerhard: *See*—
Millar, John F., and Lindner. 3,018,221
Lindner, Hellmuth: *See*—
Lindner, Hugo and H. 3,019,627.
Lindner, Herbert, G.m.b.H.: *See*—
Schultze, Kurt H. 3,027,691.
Schultze, Kurt H. 3,037,741.
Stade, Gerhard. 3,037,420.
Lindner, Herbert G., to United States of America, Army. Synchronization for maximum correlation. 3,016,519, 1–9–62, Cl. 340—171.
Lindner, Herbert G., to United States of America, Army. Security communication system. 3,025,350, 3–13–62, Cl. 179—1.5.
Lindner, Hugo and H., to VEB Vereinigte Strumpfwerke Esda. Method and machine for knitting pile fabrics. 3,019,627, 2–6–62, Cl. 66—91.
Lindner, Jacob. Well pumping system. 3,045,607, 7–24–62, Cl. 103—221.
Lindner, Kurt, to Hagan Chemicals & Controls, Inc. Method of preparing granulated condensed phosphate peroxyhydrate. 3,037,838, 6–5–62, Cl. 23—14.
Lindner, Otto G., to H. H. Robertson Co. Adjustable gutter for roof ventilator. 3,066,594, 12–4–62, Cl. 98—42.
Lindner, Valentin. Process for making faller bars and the like. 3,026,235, 3–20–62, Cl. 156—305.
Lindner, William L., and H. J. Rokosz. Wheel traction device. 3,021,179, 2–13–62, Cl. 301—47.
Lindquist, Curt-Ake J. G. A. Ohlander, and S. G. Thulin, to Aktiebolaget Celloplast. Tubing for packaging purposes. 3,027,065, 3–27–62, Cl. 229—53.
Lindquist, Everet F., to Measurement Research Center, Inc. Methods and apparatus for processing data. 3,050,248, 8–21–62, Cl. 235—61.7.
Lindquist, Jonas T. Powder applying apparatus. 3,061,150, 10–30–62, Cl. 222—313.
Lindqvist, Karl G. L., to Svenska AB Toledo. Apparatus for building and weighing stacks of sheets. 3,028,980, 4–10–62, Cl. 214—6.
Lindsay, James E., to Radio Corp. of America. Stabilized signal amplifier circuits employing transistors. 3,041,544, 6–26–62, Cl. 330—24.
Lindsay, James E., and T. B. Martin, to Radio Corp. of America. Semiconductor signal converter apparatus. 3,018,391, 1–23–62, Cl. 307—88.5.
Lindsay, John D.: *See*—
Kelley, Oliver K., and Lindsay. 3,025,719.
Lindsay, John D., to General Motors Corp. Transmission. 3,049,937, 8–21–62, Cl. 74—472.
Lindsay, John D., to General Motors Corp. Transmission. 3,049,945, 8–21–62, Cl. 74—759.
Lindsay, John D., to General Motors Corp. Transmission. 3,056,313, 10–2–62, Cl. 74—752.
Lindsay, Joseph, to Pittsburgh Plate Glass Co. Process of bleaching sized cotton fabrics. 3,030,171, 4–17–62, Cl. 8—109.
Lindsay, Maurice E., to Spindle Specialty Co. Shuttle-point cotton picking spindle. 3,018,600, 1–30–62, Cl. 56—50.
Lindsay, Maurice E., to Spindle Specialty Co. Crank and cam-track drive for oscillating bars of cotton pickers. 3,040,506, 6–26–62, Cl. 56—43.
Lindsay, Maurice E. Air distributing and tempering machine. 3,055,145, 9–25–62, Cl. 47—2.
Lindsay, Wesley N., to Jennings Radio Mfg. Corp. Drive mechanism for vacuum switches. 3,035,139, 5–15–62, Cl. 200—111.
Lindsay, Wesley N. Dual image reflecting telescope. 3,064,-526, 11–20–62, Cl. 88—32.

Lindsey, David L. : *See*—
Blubaugh, Robert L., and Lindsey. 3,038,546.
Lindsey, Edward C., to The Sancor Corp. Broaching apparatus for machining grooves. 3,059,515, 10–23–62, Cl. 83—5.
Lindsey, Ernest E. Means for treating liquids. 3,029,615, 4–17–62, Cl. 62—343.
Lindsey, Joe P., and R. G. Piety, to Phillips Petroleum Co. Ghost elimination. 3,070,777, 12–25–62, Cl. 340—15.5.
Lindsey, L. E. Conductor clamp assembly for use on pole top insulators. 3,026,368, 3–20–62, Cl. 174—169.
Lindsey, Richard V., Jr. : *See*—
Andreades, Sam, England, and Lindsey. 3,030,409.
Lindsey, William C. : *See*—
Loy, Samuel E., III, and Lindsey. 3,059,700.
Loy, Samuel E., III, McStravick, and Lindsey. 3,070,167.
Rike, James L., and Lindsey. 3,070,171.
Lindsey, William C., to Jersey Production Research Co. Wire line cutter. 3,036,522, 5–29–62, Cl. 102—20.
Lindsley, William C., to Jersey Production Research Co. Testing of well packers. 3,059,696, 10–23–62, Cl. 166—4.
Lindstrom, Anders : *See*—
Jodell, Georg E., Lindstrom, and Ysberg. 3,027,040.
Lindstrom, Carl A., Jr. : *See*—
Baird, William C., Jr., Lindstrom, Besse, and D'Entremont. 3,022,543.
Lindström, Cedrik : *See*—
Ljung, Per S., and Lindström. 3,031,733.
Lindstrom, Eddie G., to California Research Corp. Preparation of heavy metal cyclopentadienides in the presence of a non-benzenoid nitrogen base. 3,057,899, 10–9–62, Cl. 260—139.
Lindstrom, Elmer V., to Dahlstrom Metallic Door Co. Mounting for interchangeable wall panels. 3,034,184, 5–15–62, Cl. 20—92.4.
Lindstrom, John A., to Jones & Laughlin Steel Corp. Measuring apparatus. 3,066,226, 11–27–62, Cl. 250—222.
Lindstrom & King Co. : *See*—
Lindstrom, Wilfred E. 3,017,190.
Lindstrom, Mary D., J. Fanti, O. P. Cohen, and J. F. Heaps, to Monsanto Chemical Co. Process of preparing aqueous copolymer latex of methyl-acrylate and monovinylidene aromatic hydrocarbon monomer and resulting product. 3,058,938, 10–16–62, Cl. 260—29.6.
Lindstrom, Olle, and S. Hedman, to Allmanna Svenska Elektriska Aktiebolaget. Fuel composition for aqueous homogenous nuclear reactors. 3,067,121, 12–4–62, Cl. 204—193.2.
Lindstrom, Robert J. Mop and method of making same. 3,068,505, 12–18–62, Cl. 15—229.
Lindstrom, Wilfred E., to Lindstrom & King Co. Valve stem seal. 3,017,190, 1–16–62, Cl. 277—32.
Line, Russel E. : *See*—
Edwards, Jack T., and Line. 3,063,031.
Lineberry, Dewey D., to Union Carbide Corp. Foamable vinyl resin composition containing polyhalogenated hydrocarbon and process for producing cellular structure therefrom. 3,052,643, 9–4–62, Cl. 260—2.5.
Lineker, Josef. Carrying structure. 3,064,773, 11–20–62, Cl. 189—36.
Linehan, John J., and E. W. Schultz, to United States Steel Corp. Knotter mechanism for automatic wire-tying machine. 3,037,535, 6–5–62, Cl. 140—115.
Linehan, John J., and H. J. Stevens, to United States Steel Corp. Feed mechanism for automatic wire-tying machine. 3,052,394, 9–4–62, Cl. 226—190.
Lineker, Robert L. : *See*—
Landell, Keith D., and Lineker. 3,015,372.
Lines Bros. (Canada) Ltd. : *See*—
Alsop, Alfred N. 3,029,087.
Lineweber, August D. Tank and head connected by a detachable sealer. 3,045,857, 7–24–62, Cl. 220—5.
Linfield, Warner M. : *See*—
Sherrill, Joseph C., Linfield, and Marsh. 3,033,704.
Ling, Cheng : *See*—
Chien, Kun L., Ergin, and Ling. 3,042,007.
Ling-Temco Electronics, Inc. : *See*—
Bland, David M., and Myers. 3,060,901.
Fenske, Donald M., Fedrick, and Miller. 3,068,575.
Halsey, Donald J. 3,042,347.
Hardesty, Gilbert R., and McMillan. 3,055,346.
Hunt, Frederick C. 3,049,913.
Hunt, Frederick C., and Klein. 3,018,541.
Ludwig, John W. 3,032,845.
Matsuoka, Earl. 3,059,720.
Redmond, William G., and Stanfield. 3,060,362.
Santamaria, Jesse J., and Winborn. 3,068,647.
Ling-Temco-Vought, Inc. : *See*—
Levy, Sidney E., Blumenfeld, and Sharp. 3,028,927.
Lingal, Harry J. : *See*—
Friedrich, Robert E., and Lingal. 3,033,962.
Leeds, Winthrop M., and Lingal. 3,045,086.
Lingard, Harold A., to Mantua Metal Products Co., Inc. Railroad can hopper gate and coupler cam actuating means. 3,024,924, 3–13–62, Cl. 214—63.
Linge, John W., to Eastman Kodak Co. Photographic colloid transfer process. 3,043,687, 7–10–62, Cl. 96—28.
Lingenfelder, Hans : *See*—
Liversidge, Thomas K., and Lingenfelder. 3,041,983.
Lingenfelter Stanley E. : *See*—
Bronte, William H., and Lingenfelter. 3,063,615.
Lingers, Franciscus, to North American Philips Co., Inc. Flexible connection between two aligned conductors one of which is sealed into the glass wall of a discharge tube. 3,026,442, 3–20–62, Cl. 313—278.
Lingle, Cleo M. Automatic ice vendor. 3,067,591, 12–11–62, Cl. 62—344.
Lingle, Harrison C. : *See*—
Leslie, John H., and Lingle. 3,028,885.
Lingle, Harrison C., to Signode Steel Strapping Co. Strapping device. 3,048,204, 8–7–62, Cl. 140—123.6.
Lingle, Harrison C., to Signode Steel Strapping Co. Steel strapping dispenser. 3,061,235, 10–30–62, Cl. 242—128.
Lingle, Harrison C., and A. E. Ohgren, to Signode Steel Strapping Co. Crimping tool. 3,068,485, 12–18–62, Cl. 1—187.
Lingner-Werke G.m.b.H. : *See*—
Raehs, Wilhelm, and Rauchmann. 3,036,781.
Linguatronics, Inc. : *See*—
Irazoqui, Carlos A. 3,026,634.
Linhardt, Hans D. Auxiliary steering and propulsion unit. 3,056,374, 10–2–62, Cl. 114—151.
Linhart, Otto C. : *See*—
Van Dolah, Harry J., and Linhart. 3,017,279.
Linhorst, Erwin F., to United States Rubber Co. Molding method and apparatus. 3,046,600, 7–31–62, Cl. 18—5.
Link Aviation, Inc. : *See*—
Randall, Walter A., and Rider. 3,031,776.
Schwarm, Edward G. 3,039,693.
Link-Belt Co. : *See*—
Blau, Robert E. 3,066,780.
Erisman, Maurice J., Francis, and Antonson. 3,050,868.
Evans, Ralph A., Stephanoff, and McCollum. 3,066,547.
McIlhenny, Alan. 3,045,924.
Musschoot, Albert. 3,029,924.
Parshall, Bert B., and Glass. 3,021,796.
Link-Belt Speeder Corp. : *See*—
Korensky, Edwin, and Thune. 3,021,014.
Link, Charles T., Jr., and R. F. Schmidt, to Elgin Sweeper Co. Belt training apparatus. 3,024,892, 3–13–62, Cl. 198—202.
Link Division of General Precision, Inc. : *See*—
Rider, Albert J. 3,024,539.
Ziegler, Joseph. 3,067,529.
Link, Edwin A., to R T & E Corp. Fuse construction. 3,018,-349, 1–23–62, Cl. 200—114.
Link, Edwin A., to R T & E Corp. Circuit recloser. 3,018,-415, 1–23–62, Cl. 317—23.
Link, Harold S., and W. E. Schultz, to United States Steel Corp. Anti-skid tread plate. 3,017,689, 1–23–62, Cl. 29—194.
Link, Manfred, to Grunding G.m.b.H. Shifting arrangement for typewriters. 3,034,629, 5–15–62, Cl. 197—74.
Link Research Corp. : *See*—
Blonder, Howard, and Klamer. 3,057,466.
Link, Vincent V. : *See*—
Prentice, William H., and Link. 3,056,172.
Linke, Arthur G., to Dominion Foundries and Steel Ltd. Continuous strip wiping apparatus. 3,031,703, 5–1–62, Cl. 15—102.
Linke, Johannes : *See*—
Manz, Samuel, and Linke. 3 059,542.
Manz, Samuel, and Linke. 3.059.543.
Linke, Karl R., J. J. Peterson, and J. W. Ridley, to American Home Products Corp. Smallpox vaccine system. 3,067,-742, 12–11–62, Cl. 128—213.
Linke, Walter R. : *See*—
Cox, Arthur, and Linke. 3.023,673.
Linke, Walter R., to Bell & Howell Co. Catadioptric objective. 3,044,357, 7–17–62, Cl. 88—57.
Linke, Walter R., to Bell & Howell Co. Catadioptric objective. 3,051,049, 8–28–62, Cl. 88—57.
Linkenheimer, Wayne H., E. L. Patterson, and J. A. Brockman, Jr., to American Cyanamid Co. Process of preparing hematinic for parenteral administration. 3,070,506, 12–25–62, Cl. 167—68.
Linker Machines, Inc. : *See*—
Karius, William. 3,054,545.
Linkinhoker, Chester L., to The Bauer Bros. Co. Specific gravity separator. 3,040,892, 6–26–62, Cl. 209—467.
Links, Heinz, to Robert Bosch, G.m.b.H. Fuel supply system. 3,050,001, 8–21–62, Cl. 103—2.
Linley, Francis M., Jr., to Universal Thread Grinding Co. Thread cutting tool with dulled edges on the guide teeth portion. 3,021,538, 2–20–62, Cl. 10—111.
Linn, Carl B. : *See*—
Hervert, George L., and Linn. 3,050,570.
Hervert, George L., and Linn. 3,054,834.
Hervert, George L., and Linn. 3,054,835.
Hervert, George L., and Linn. 3,054,836.
Hervert, George L., and Linn. 3,068,301.
Linn, Carl B., to Universal Oil Products Co. Process for reducing the surface activity of compounds in aqueous mixtures. 3,023,170, 2–27–62, Cl. 252—321.
Linn, John K. : *See*—
Scozzafava, Milton V., Linn, Busch, and Boyden. 3,017,-081.
Scozzafava, Milton V., Linn, Busch, and Boyden. 3,064,-892.
Linn, Sidney S., to United States of America, Army. Centrifugal tyne safety and arming spring for fuze applications. 3,045,597, 7–24–62, Cl. 102—79.

Linn, William J. Gas and fume disposal system for internal combustion engines. 3,059,628, 10–23–62, Cl. 123—119.
Linnartz, Bertram : *See*—
Knobloch, Erich, Adam, and Linnartz. 3,043,499.
Linnell, Clark, to General Mills, Inc. Shipping cushion. 3,064,801. 11–20–62, Cl. 206—46.
Linnell, Richard E. Golf putting glove. 3,065,472, 11–27–62, Cl. 2—161.
Linnenkohl, Hans : *See*—
Benz, Walter, and Linnenkohl. 3,016,886.
Linnert, Arthur, and R. Lyon, to The Cotton Silk and Man-Made Fibres Research Association, Machine for forming and dotting laps and the like. 3,057,567, 10–9–62, Cl. 242—55.1.
Linnes, Hermann. Non-glaring head lamps. 3,048,734, 8–7–62, Cl. 313—116.
Linotype and Machinery Ltd. : *See*—
Bugler, Arthur V. 3,026,583.
Jameson, Keith. 3,057,294.
Lins, Paul. Paint stripper for use on windows and the like. 3,047,946, 8–7–62, Cl. 30—162.
Linsdeau, Vernon J. Sentinels for anchor lines. 3,055,332, 9–25–62, Cl. 114—206.
Linsk, Jack, to Standard Oil Co. Ammonium nitrate composition. 3,056,702, 10–2–62. Cl. 149—19.
Linsner, Eugene, to Buckeye Tools Corp. Machine tool. 3,039,331, 6–19–62, Cl. 77—34.7.
Linsner, Eugene, to Buckeye Tool Corp. Automatic machine tool. 3,041,897, 7–3–62, Cl. 77—33.5.
Linsley, Douglas F., and H. J. Miller, Jr., to Morgan Development Laboratories, Inc. Variable speed unit. 3,038,311, 6–12–62, Cl. 60—53.
Linson, William T. : *See*—
Myers, Charles E., and Linson. 3,016,776.
Linstrom, Frank O. Motor operated therapeutic couch. 3,015,330, 1–2–62, Cl. 128—25.
Linstromberg, William J., to Whirlpool Corp. Product level control for ice maker. 3,040,542, 6–26–62, Cl. 62—137.
Linstromberg, William J., to Whirlpool Corp. Ice maker. 3,055,184, 9–25–62, Cl. 62—137.
Linstromberg, William J., and E. H. Frobbieter, to Whirlpool Corp. Ice maker. 3,055,186, 9–25–62, Cl. 62—186.
Lint, Geraldine F. Wig foundation or cap. 3,046,999, 7–31–62, Cl. 132—54.
Lintner, Anthony E., to Hagan Chemicals & Controls, Inc. Liquid dishwashing detergent. 3,058,917, 10–16–62, Cl. 252—99.
Linton, William C., to Fuse Indicator Corp. Fuseholder. 3,052,781, 9–4–62, Cl. 200—133.
Linton, William H., Jr., and S. H. Munger, to E. I. du Pont de Nemours and Co. Process for the production of dimensionally stable polyvinyl resin sheeting. 3,068,525, 12–18–62, Cl. 18—48.
Linville, James C. Horse trailer roof structure. 3,063,200, 11–13–62. Cl. 50—52.
Linville, Perman E., to Toledo Scale Corp. Illuminated elevator sight guard. 3,040,295, 6–19–62, Cl. 340—19.
Linville, Robert G., to Celanese Corp. of America. Phosphine-metal compound catalyst. 3,053,809, 9–11–62, Cl. 260—75.
Linville, Robert G., R. J. Osborne, and C. L. Smart, to Celanese Corp. of America. Hypophosphite color-forming inhibitor in polyester condensation. 3,039,999, 6–19–62, Cl. 260—75.
Linz, Arthur, and N. F. Tisdale, to Molybdenum Corp. of America. Iron and steel production. 3,020,153, 2–6–62, Cl. 75—129.
Linz, Arthur, Jr., to National Lead Co. N-type semiconductors. 3,037,180, 5–29–62, Cl. 338—327.
Linzberger, Robert, to Gebrueder Buchler . Feeding attachment for flour-mill roll frames. 3,058,677, 10–16–62, Cl. 241—222.
Linzell, Lee L., R. J. Redmond, and G. B. Isquith. Method of making cutting dies. 3,059,506, 10–23–62, Cl. 76—107.
Linzell, Samuel O. : *See*—
Cantwell, Edward G., Curl, and Linzell. 3,046,521.
Lion, Elmer J. : *See*—
Hallow, William C., Lion, Krane, Custis, and Scutti. 3,032,301.
Lion Mfg. Corp. : *See*—
Hooker, Donald E., and Tojza. 3,063,715.
Nicolaus, Frank G. 3,064,098.
Nicolaus, Frank G. 3,064,891.
Rosenberger, John. 3,063,719.
Lionel Corp., The : *See*—
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Bonanno, Joseph L. 3,020,346.
Bonanno, Joseph L. 3,022,445.
Bonanno, Joseph L. 3,032,738.
Bonanno, Joseph L. 3,034,256.
Bonanno, Joseph L. 3,037,772.
Bonanno, Joseph L. 3,038,139.
Bonanno, Joseph L. 3,038,586.
Bonanno, Joseph L. 3,045,551.
Bonanno, Joseph L. 3,058,016.
Bonanno, Joseph L. 3,070,247.
Crosman, Dorland L. 3,025,846.
Hanna, Jay. 3,034,257.
Smith, Richard G. 3,028,027.
Zion, Moses. 3,020,672.
Zion, Moses. 3,046 699.
Zion, Moses. 3,056,512.
Zion, Moses. 3,059,783.
Zion, Moses. 3,064,588.
Liou, Tcheng-Pao : *See*—
Wiedmer, Friedrich S., and Liou. 3,055,587.
Lipcsey, Miklos, I. Biczok, and Z. Horusth, to Licenia Talalmanyokat Ertekesito Vallalat. Dehumidification and dampproofing of structures. 3,070,528, 12–25–62, Cl. 204—180.
Lipe-Rollway Corp. : *See*—
Moore, David L. 3,026,979.
Lakins, Franklin D., and Lanphere. 3,049,037.
Lakins, Franklin D., and Lanphere. 3,066,806.
Lanphere, Gerald B. 3,070,229.
Spase, Charles B. 3,034,207.
Lipfert, Donald E. : *See*—
Chandler, Milton E., and Lipfert. 3,029,599.
Lipha Lyonnaise Industrielle Pharmaceutique : *See*—
Molho, Darius. 3,032,557.
Lipha, Societe : *See*—
Giroud-Abel, André. 3,032,915.
Lipinski, Andrew J., to Canadian Westinghouse Co., Ltd. Simplified microwave repeater. 3,018,370, 1–23–62, Cl. 250—15.
Lipke, Paul H. : *See*—
Bushong, Lloyd B., Kennedy, and Lipke. 3,051,597.
Lipkin, Daniel M., to Remington Rand Inc. Transverse magnetic amplifier core construction. 3,019,348, 1–30–62, Cl. 307—88.
Lipkin, Walter : *See*—
Buchenkirch, Arthur J., Lipkin, and Widenor. 3,053,332.
Lipman, Bruin T. Combination coaster and ash tray. 3,031,096, 4–24–62, Cl. 215—12.
Lipman, Bruin T. Candlestick, dish and compote. 3,045,855, 7–24–62, Cl. 215—99.5.
Lipman, Kenneth, to Westinghouse Electric Corp. Proximity switching apparatus. 3,027,467, 3–27–62, Cl. 307—88.5.
Lipman, Leonard M., and H. Morris, to Warner Mfg. Corp. Apparatus for continuous metal casting and parts thereof. 3,050,792, 8–28–62, Cl. 22—57.2.
Lipowski, Stanley : *See*—
Fetscher, Charles A., and Lipowski. 3,052,571.
Fetscher, Charles A., and Lipowski. 3,063,781.
Lipowski, Stanley, and C. A. Fetscher, to Nopco Chemical Co. Synthetic tanning agent and process for preparing same. 3,029,212, 4–10–62, Cl. 260—29.3.
Lipp, Albert : *See*—
Lore, Frank. 3,018,992.
Lipp, Donald, and G. C. Nash, ½ to L. Stein. Adjustable filter tip. 3,016,902, 1–16–62, Cl. 131—10.
Lippart, John, and A. W. Klein, to Westinghouse Electric Corp. Welding apparatus. 3,062,949, 11–6–62, Cl. 219—125.
Lippel, Bernard. Cathode ray coding tube and circuit. 3,015,814, 1–2–62. Cl. 340—347.
Lippert, Henry E. Biopsy capsule and apparatus. 3,033,194, 5–8–62. Cl. 128—2.
Lippincott, Charles D. : *See*—
Williams, Craig V., and Lippincott. 3,054,572.
Lippincott, Dorothy A. : *See*—
Etheridge, Oliver R., Wagoner, McDonald, and Lippincott. 3,067,067.
Lippincott, Ruth O. : *See*—
Iles, Van I. 3,064,755.
Lippincott, Samuel B. : *See*—
Wiese, Herbert K., and Lippincott. 3,022,359.
Lippincott, Samuel B., and A. J. Morway, to Esso Research and Engineering Co. Lubricating oil compositions. 3,060,-120, 10–23–62. Cl. 252—32.
Lippitt, Raymond F. : *See*—
Newmyer, Lewis M., and Lippitt. 3,034,657.
Lippke, Donald E., to Deere & Co. Fluidizing conveyor. 3,070,243, 12–25–62, Cl. 214—83.28.
Lippke, Paul. Method of heating, drying and equalizing the drying of endless webs. 3,057,075, 10–9–62, Cl. 34—1.
Lippman, B., Inc. : *See*—
Lippman, Bernard. 3,051,962.
Lippman, Bernard. Flap construction for articles of clothing. 3,015,107 1–2–62, Cl. 2—115.
Lippman, Bernard, to B. Lippman, Inc. Pocket identification. 3,051 962, 9–4–62. Cl. 2—247.
Lippmann, Arthur W., to Hewitt-Robins Inc. Positive motion horizontal screen shaft assembly. 3,039,609, 6–19–62, Cl. 209—341.
Lipps, Frederick W., Jr., and J. H. Holloway, to National Co., Inc. Carbon monoxide frequency standard. 3,060,-385, 10–23–62. Cl. 331—3.
Lips, Donald C., to The Garrett Corp. Valve assembly. 3,036,592, 5–29–62, Cl. 137—467.
Lipschutz, Frank K. : *See*—
Hanna, Milton M., and Lipschutz. 3,025,529.
Lipschutz, Frank K., to Louisville Cap Corp. Foldable cap. 3,039,113, 6–19–62, Cl. 2—195.
Lipschutz, Sidney, and E. H. Barnett, to Standard Products Co., Inc. Dispenser package. 3,065,894, 11–27–62, Cl. 229—14.
Lipschutz, Sidney, and E. H. Barnett, to Chemical Sales, Inc. Multiple unit container. 3,065,895, 11–27–62, Cl. 229—14.
Lipscomb, Robert D., to E. I. du Pont de Nemours and Co. Method for producing nitrogen trifluoride, dinitrogen difluoride and nitrosyl fluoride. 3,043,662, 7–10–62, Cl. 23—203.
Lipscomb, Robert F. : *See*—
Huber, Henri J., and Lipscomb. 3,056,317.
Lipscomb, Willis L. Cellular light control panel. 3,019,334, 1–30–62, Cl. 240—78.

Lipscomb, Willis L. Curved, cellular light control panel. 3,024,355, 3–6–62, Cl. 240—78.

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Lipshutz, Joseph, to Schaevitz Engineering. Differential transformer. 3,054,976, 9–18–62, Cl. 336—136.

Lipsitz, Robert J., to Kalimar, Inc. Photographic light meters. 3,031,921, 5–1–62, Cl. 88—23.

Lipski, Anthony M., to United Elastic Corp. Melt spinning extrusion head. 3,057,009, 10–9–62, Cl. 18—8.

Lipski, Richard J.: *See*—
Moore, Ralph F., Blumenauer and Lipski. 3,029,469.

Lipsky, Eugene S., to Draper Corp. Filling carrier for shuttleless looms. 3,034,540, 5–15–62, Cl. 139—122.

Lipsky, Seymour R., and M. R. Godet. Injection apparatus and ampules. 3,023,751, 3–6–62, Cl. 128—218.

Lipson, Samuel, and H. V. Sulinski, to United States of America, Army. Apparatus for measurement of gas in metal. 3,053,075, 9–11–62, Cl. 73—19.

Liptak, James A. Method of arc welding aluminum members. 3,047,713, 7–31–62, Cl. 219—118.

Liptay, John M., to Laboratory Furniture Co., Inc. Mobile laboratory. 3,041,957, 7–3–62, Cl. 98—115.

Lipton, Thomas J., Inc.: *See*—
Schroeder, Charles W. 3,025,171.

Lipuma, Charles R.: *See*—
Baumann, George P., and Lipuma. 3,044,952.

Liquefreeze Co., Inc.: *See*—
Morrison, Willard L. 3,022,636.
Morrison, Willard L. 3,022,637.
Morrison, Willard L. 3,023,588.
Morrison, Willard L. 3,029,967.
Morrison, Willard L. 3,039,276.
Morrison, Willard L. 3,044,161.
Morrison, Willard L. 3,048,989.
Morrison, Willard L. 3,055,760.
Morrison, Willard L. 3,063,067.
Morrison, Willard L. 3,063,248.
Morrison, Willard L. 3,068,105.
Morrison, Willard L. 3,069,865.

Liquid Controls Corp.: *See*—
Billeter, Henry R. 3,057,553.
Billeter, Henry R., and Richards. 3,021,861.
Richards, George B. 3,060,957.

Lis, Stephen W.: *See*—
Reichel, Howard G., and Lis. 3,015,350.

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Lisanke, Robert J., and D. L. Bailey, to Union Carbide Corp. Process for producing aminoalkylsilanes. 3,046,295, 7–24–62, Cl. 260—448.8.

Lischer, Georg: *See*—
Müller, Heinrich, and Lischer. 3,052,145.

Lisciani, Constantine, to The Protectoseal Co. Fuel supply device for locomotives. 3,032,079, 5–1–62, Cl. 141—95.

Lisciani, Constantine, to The Protectoseal Co. Spray mask washer. 3,036,582, 5–29–62, Cl. 134—56.

Lisciani, Constantine, to The Protectoseal Co. Relief valve for a drum. 3,066,689, 12–4–62, Cl. 137—73.

Lishock, Walter J.: *See*—
Runde, Byron A., and Lishock. 3,027,992.

Lisinski, Joseph E., to International Business Machines Corp. Document handling system. 3,059,753, 10–23–62, Cl. 198—38.

Liska, George W. Eccentrically adjustable fastener. 3,041,913, 7–3–62, Cl. 85—1.

Liskey, George W., to FMC Corp. Method of and apparatus for adjusting vehicle wheels. 3,050,100, 8–21–62, Cl. 153—22.

Liss, Bernard S.: *See*—
Lang, Alphonse G., Jr., and Liss. 3,049,931.

Lissant, Kenneth J.: *See*—
Boaz, William M., and Lissant. 3,069,307.

Lissant, Kenneth J., to Petrolite Corp. Oxyalkylated water process. 3,069,306, 12–18–62, Cl. 162—5.

Lissant, Kenneth J., to Petrolite Corp. Oxyalkylated alcohol process. 3,069,308, 12–18–62, Cl. 162—5.

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Lissimore, John P. Stacking apparatus. 3,059,786, 10–23–62, Cl. 214—6.

List, Hans: *See*—
Lehner, Felix. 3,065,900.
Slade, Albert E., and Buck. 3,019,978.
Vonnegut, Bernard. 3,019,989.

List, Joseph F.: *See*—
Myers, Donald E., List, and Bowman. 3,050,872.

List, Joseph F., to Aero Service Corp. Motor driven globe. 3,049,813, 8–21–62, Cl. 35—46.

List, Ralph W., and I. Schwartz. Crimping textile strands. 3,027,619, 4–3–62, Cl. 28—1.

Lister, Allan: *See*—
Porter, Hubert T., and Lister. 3,041,290.

Lister, Bruce A., and N. D. Pintauro, to General Foods Corp. Pectin composition and method of making the same. 3,041,179, 6–26–62, Cl. 99—132.

Lister, Charles A., to Square D Co. High voltage contactor. 3,017,481, 1–16–62, Cl. 200—147.

Lister, Charles A., to Square D Co. Spring applied electric release brake. 3,028,934, 4–10–62, Cl. 188—171.

Lister, George H.: *See*—
Blauvelt, Ralph C., and R. N. and G. H. Lister. 3,026,488.

Lister, Robert N.: *See*—
Blauvelt, Ralph C., and R. N. and G. H. Lister. 3,026,488.

Lister, Ronald: *See*—
Wigley, Patrick A., and Lister. 3,042,746.

Liston, Joseph. Fuel and inlet guide vane control for a free turbine engine. 3,055,177, 9–25–62, Cl. 60—39.16.

Liston, Keith L.: *See*—
Leonard, Edward J., Hemel, Tarschisch, Karow, Gibson, and Liston. 3,036,160.

Liston, Max D., to Beckman Instruments, Inc. Method and apparatus for analyzing gases. 3,025,745, 3–20–62, Cl. 88—14.

Lit, Harry B., and R. E. Dunton, to General Electric Co. Method of coating wire and apparatus therefor. 3,018,199, 1–23–62, Cl. 117—231.

Litchfield, Mason R., to Baker Oil Tools, Inc. Well liner running and supporting apparatus. 3,051,244, 8–28–62, Cl. 166—223.

Litchfield, William H., to Gulf Oil Corp. Apparatus for recovering products from sulfuric acid sludge. 3,060,005, 10–23–62, Cl. 23—277.

Litecraft Mfg. Corp.: *See*—
Gellert, Don L. 3,057,993.
Flanigen, Warren B., and Dunckel. 3,053,560.

Litemetal Dicast, Inc.: *See*—
Cornell, Robert C. 3,019,495.

Lithographic Technical Foundation: *See*—
Jorgensen, George W. 3,053,181.

Lithonia Lighting, Inc.: *See*—
McIntosh, Jud D. 3,070,689.

Lithoplate, Inc.: *See*—
Deal, Elmer F. 3,064,562.

Lithun, George. Sewer opener apparatus. 3,034,522, 5–15–62, Cl. 134—167.

Litsky, Warren: *See*—
Dutcher, Ray M., Read, and Litsky. 3,060,094.

Litt, Peter S. Process for treating a manganese containing ore for the recovery of manganese values therefrom. 3,018,-234, 1–23–62, Cl. 204—83.

Littelfuse, Inc.: *See*—
Ellithorpe, Gilbert S. 3,019,308.
Marquis, John F. 3,038,047.

Littell, F. J., Machine Co.: *See*—
Budlong, Simeon. 3,034,364.

Littell, Ruddy: *See*—
Bernstein, Seymour, Cantrall, and Littell. 3,031,469.
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Litteral, Silas, and F. E. Step, to Storage Products Corp. Structural element. 3,018,862, 1–30–62, Cl. 189—37.

Litterio, Frank R. A., to White Laboratories, Inc. Copolymerization process. 3,050,505, 8–21–62, Cl. 260—80.3.

Little, Arthur D., Inc.: *See*—
Bablouzian, Leon M., and Hall. 3,039,771.
Banigan, Thomas F., Jr., and Plasse. 3,039,893.
Boyd, Winnett. 3,062,238.
Cowles, Roderick J., and Stedman. 3,037,878.
Lurie, Robert J. 3,061,408.
Margolin, Stanley V., Bowen, Angeline, and Laffert. 3,062,629.
McMahon, Howard O. 3,062,968.
Meissner, Herman P. 3,031,293.
Merrill, Richard E., and Raphael. 3,039,913.
Moriarty, John R., and Nowlin. 3,060,031.
Nicol, James. 3,029,380.
Old, Bruce S., Hyde, Meissner, Margolin, and Schora. 3,020,149.
Pachernegg, Siegfried. 3,023,060.
Pierce, Norton T. 3,024,944.
Raphael, Thomas, and Hervey. 3,039,894.
Raphael, Thomas, and Hervey. 3,039,915.
Reiman, Peter A. 3,039,914.
Rosen, Leo, and Rothery. 3,031,651.
Sperry, Charles R., and Marden. 3,026,589.
Sullivan, Frederick, and Tatosian. 3,062,417.
Whitehouse, John B., Lamade, Di Maggio, and Hall. 3,043,069.

Little, Arthur J.: *See*—
Lake, Lelyn D., and Little. 3,029,325.

Little, David S., E. W. Pike, and F. C. Melchoir. Landing indicator. 3,059,477, 10–23–62, Cl. 73—387.

Little, Edwin D., to Allied Chemical Corp. Production of N-vinyl-2-oxazolidones. 3,064,004, 11–13–62, Cl. 260—307.

Little, Everett R.: *See*—
Rimmer, Charles A., Irwin, and Little. 3,057,140.

Little, Gerald R., to The Emerson Electric Mfg. Co. A.C. voltage regulating system. 3,042,851, 7–3–62, Cl. 323—51.

Little, H. C., Burner Co., Inc.: *See*—
Conrad, William A. 3,052,230.
Little, Harry C. 3,056,397.

Little, Harry C., to H. C. Little Burner Co., Inc. Wall heater. 3,056,397, 10–2–62, Cl. 126—85.

Little, Harvey J., to Chrysler Corp. Laminating bag. 3,038,825, 6–12–62, Cl. 154—2.7.

Little, Larry L., to Joy Mfg. Co. Automatic control for energizing electrical precipitators and method thereof. 3,048,-955, 8–14–62, Cl. 55—2.

Little, Thomas. Tape cable connector. 3,017,602, 1–16–62, Cl. 339—174.

Little, Thomas. Printed circuit board. 3,019,283, 1–30–62, Cl. 174—68.5.

Little, William A.: *See*—
Anderson, Robert E., and Little. 3,041,213.
Anderson, Robert E., and Little. 3,043,725.

Little, William M.: *See*—
Pilkington, Victor W., and Little. 3,068,952.

Little Chief Products, Inc.: *See*—
Paulson, Lester L., and Jensen. 3,025,949.

Littlefield, Carl, and J. W. Smith, to Battle Creek Packaging Machines, Inc. Machine for packaging with limp synthetic film wrappers. 3,069,826, 12–25–62, Cl. 53—230.

Littlefield, Irvin W., ½ to R. C. Littlefield. Spray pattern control mechanism for insecticide sprayer. 3,050,261, 8–21–62, Cl. 239—318.

Littlefield, John B.: *See*—
Morton, Avery A., Littlefield, and Mecum. 3,047,543.

Littlefield, Robert C.: *See*—
Littlefield, Irvin W. 3,050,261.

Littlejohn, Richard C.: *See*—
Schneider, Ted, and Littlejohn. 3,037,708.

Littler, Clarence A., to E. I. du Pont de Nemours and Co. Improved homogeneous, readily dispersed, pesticidal concentrate. 3,060,084, 10–23–62, Cl. 167—42.

Littleton, William S., and J. T. Brown, Jr. Hunter's blind. 3,052,054, 9–4–62, Cl. 43—1.

Littlewood, Anthony D., to The British Oxygen Co. Ltd. Storage of Liquefied gases. 3,034,308, 5–15–62, Cl. 62—54.

Littlewood, Geoffrey, to The British Iron and Steel Research Assn. Continuous casting of metals. 3,025,579, 3–20–62, Cl. 22—57.2.

Littman, Harry: *See*—
Dillon, Edward M. 3,063,180.

Littman, William I. Combination money clip and change box. 3,027,995, 4–3–62, Cl. 206—38.

Litton, Felix B., to United States of America, Atomic Energy Commission. High density nuclear fuel composition. 3,044,946, 7–17–62, Cl. 204—193.2.

Litton Industries, Inc.: *See*—
Krogh, Rav A. 3,049,680.
Marsh, Frederick. 3,048,762.
Singleton, Henry E. 3,062,059.

Litton Industries of California: *See*—
Ricketts, Russell D. 3,055,987.
Thrasher, Howard G. 3,057,592.

Litton Industries of Maryland: *See*—
Fink, Charles. 3,032,726.
Levine, Stanley. 3,039,039.

Litton Systems, Inc.: *See*—
Anderson, Harold C. 3,056,958.
Gregg, John. 3,068,335.
Hill, William H. 3,050,696.
Jacoby, Abraham. 3,054,098.
Kerley, James J., Jr., Hartenstein and Cecce. 3,037,728.
Lincoln, Edward L., Jr. 3,050,632.
McConnell, Kenneth R. 3,018,331.
Monaghan, Hugh M. 3,017,784.
Steen, Hans F. 3,018,153.

Littwin, Arthur K., to R. L. and A. K. Littwin, and H. A. Young, as trustees known as Littwin Family Trust No. 1. Apparatus for and method of demagnetizing. 3,045,151, 7–17–62, Cl. 317—157.5.

Littwin, Arthur K., to R. L. and A. K. Littwin, and H. A. Young, trustees. Electrical control means. 3,045,165, 7–17–62, Cl. 318—286.

Littwin Family Trust No. 1: *See*—
Littwin, Arthur K. 3,045,151.

Littwin, Robert L.: *See*—
Littwin, Arthur K. 3,045,151.
Littwin, Arthur K. 3,045,165.

Litty, Anthony J. Adjustable masonry line block. 3,039,195, 6–19–62, Cl. 33—85.

Litvan, Franz: *See*—
Ziegler, Erich, Rossmann, and Litvan. 3,022,317.
Ziegler, Erich, and Litvan. 3,052,678.

Litvin, Thomas H. Back-flow preventer for water closets. 3,023,424, 3–6–62, Cl. 4—74.

Litwin, Walter J., and J. Eberhardt; said Eberhardt assor. to said Litwin. Adjustable clamp, 3,049,771, 8–21–62, Cl. 24—16.

Litwinoff, Richard, to Sulzer Freres, S.A. Method of cooling resuperheaters of a steam plant. 3,035,557, 5–22–62, Cl. 122—479.

Litwinoff, Richard, to Sulzer Freres, S.A. Method and means for controlling a combustion apparatus operated by at least two different fuels. 3,049,168, 8–14–62, Cl. 158—11.

Litynski, Raymond S., and M. F. Marx, to General Electric Co. Non-linear integrator and corrective control system. 3,046,465, 7–24–62, Cl. 318—489.

Litz, Frank A.: *See*—
Allais, David C., Litz, and Vogel. 3,067,333.

Litz, Frank A., to International Business Machines Corp. Photoelectric digital adder circuit. 3,053,450, 9–11–62, Cl. 235—172.

Litz, Frank A., and M. J. Vogel, to International Business Machines Corp. Electro-optical translator. 3,046,540, 7–24–62, Cl. 340—347.

Litz, Karl, to Industriewerk Schaeffler oHG. Method and device for arranging roller elements in cages, races or temporary holding means for the assembly of a bearing. 3,025,-590, 3–20–62, Cl. 29—148.4.

Litz, Lawrence M., to Union Carbide Corp. Container for high purity metals. 3,057,474, 10–9–62, Cl. 206—54.

Litzka, Franz. Apparatus for the manufacture of deeply-webbed girders. 3,066,394, 12–4–62, Cl. 29—200.

Litzkow, Otto J. Spacer for plumbing fixtures. 3,048,853, 8–14–62, Cl. 4—252.

Liu, John K.: *See*—
Snyder, Asa E., Hornung, and Liu. 3,066,324.

Liu, John K., to U.S. Industries, Inc. Transmissions. 3,020,-990, 2–13–62, Cl. 192—4.

Liubauskas, Boles. Maniple holder. 3,049,773, 8–21–62, Cl. 24—85.

Livenick, Edward D. Delayed action switch. 3,036,230, 5–22–62, Cl. 307—141.8.

Liver, Norman L.: *See*—
Rehmar, Solmon J., and Liver. 3,053,675.

Liver, Norman L., to Intrusion-Prepakt, Inc. Mixed in place pile. 3,023,585, 3–6–62, Cl. 61—36.

Liverance, Howard G., to Ford Motor Co. Hydraulic steering system. 3,063,721, 11–13–62, Cl. 280—87.

Livermont, Frank W., deceased; M. S. Zimmerman, executor, to Reed Roller Bit Co. Detachable connection for wrench heads. 3,039,340, 6–19–62, Cl. 81—177.

Livermont, Frank W., deceased, M. S. Zimmerman, executor, to Reed Roller Bit Co. Calibration device for torque measuring tools. 3,050,978, 8–28–62, Cl. 73—1.

Livermore, Charles S., to Eclipse Sleep Products, Inc. Machine and method for forming wire units. 3,049,154, 8–14–62, Cl. 140—71.

Livermore, Charles S., to Eclipse Sleep Products, Inc. Machine and method for forming wire units. 3,049,155, 8–14–62, Cl. 140—71.

Livermore, Charles S., to Eclipse Sleep Products, Inc. Machine and method for forming wire units. 3,049,156, 8–14–62, Cl. 140—71.

Livermore, H. F., Corp.: *See*—
Stevens, John M. 3,050,426.
Urquhart, Lloyd G. 3,028,882.
Urquhart, Lloyd G. 3,028,883.

Livermore, William T. Multiple ported transmission pump. 3,066,608, 12–4–62, Cl. 103—2.

Liversidge, Thomas K., and H. Lingenfelder. Toy monorail trolley systems. 3,041,983, 7–3–62, Cl. 104—93.

Livey, David T.: *See*—
Murray, Peter, and Livey. 3,025,137.

Livezey, William G.: *See*—
Christenson, Howard W., Livezey, and Breting. 3,016,-769.
Storer, John E., Jr., and Livezey. 3,027,780.

Livezey, William F., Jr. Method and apparatus for laying floors. 3,045,294, 7–24–62, Cl. 20—8.

Livingston, Arvin L.: *See*—
Bickoff, Emanuel M., Livingston, and Booth. 3,027,382

Livingston, Donald C., to Sylvania Electric Products Inc. Switching circuit for use with electroluminescent display devices. 3,054,929, 9–18–62, Cl. 315—169.

Livingston, Donald E.: *See*—
Hamer, Morgan F., and Livingston. 3,035,806.

Livingston, Emmett D. Steel and aluminum pulley block. 3,042,374, 7–3–62, Cl. 254—134.3.

Livingston, Malcolm R.: *See*—
Stamps, William E., Merrill, and Livingston. 3,044,251.

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Livingston, Nickolas R.: *See*—
De Faller, George J., Tatum, and Livingston. 3,019,567.

Livingston, Orrin W., to General Electric Co. Position control servosystem. 3,051,880, 8–28–62, Cl. 318—28.

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Livingstone, James K., to General Dynamics Corp. Constant current line circuit for loop telephone lines. 3,035,122, 5–15–62, Cl. 179—16.

Livney, Ilya S.: *See*—
Browning, Harrison, Patterson, and Livney. 3,020,926.

Lizenzia A.G.: *See*—
Meek, George W. 3,065,956.

Lizio, Joseph T. Bandage. 3,054,400, 9–18–62, Cl. 128—163.

Lizza, Albert J., to United States of America, Army. Charger for firearms. 3,044,361, 7–17–62, Cl. 89—1.

Ljunggren, Thor H., 25% to Sugbrue, Rothwell, Mion & Zinn. Servo motor. 3,045,651, 7–24–62, Cl. 121—41.

Ljung, Per S., and C. Lindström, to Allmanna Svenska Elektriska Aktiebolaget. Arrangement for the production of mats from fibre threads. 3,031,733, 5–1–62, Cl. 28—1.
Ljungberg, Sten H.: *See*—
Johansson, Carl H., and Ljungberg. 3,040,615.
Ljungberg, Ture A. Measuring tools. 3,042,338, 7–3–62, Cl. 242—107.2.
Ljungdahl, Erland S. Multiple pane window unit. 3,045,297, 7–24–62, Cl. 20—56.5.
Ljunggren, Thor H., to Ex-Cell-O Corp. Shaft positioner. 3,030,247, 8–21–62, Cl. 235—61.
Ljungwe, Anders L.: *See*—
Lee, Robert C. K., and Ljungwe. 3,030,054.
Llewellyn, Walter E.: *See*—
Coulson, John R., and Llewellyn. 3,043,471.
Llorens, Louis M. Release lock for slide fasteners. 3,049,780, 8–21–62, Cl. 24—205.15.
Lloyd, Billy E., to Allied Chemical Corp. Production of trimethyleneurea. 3,016,379, 1–9–62, Cl. 260—251.
Lloyd, Billy E., to Allide Chemical Corp. Production of 3-aminopropyl isocyanurates. 3,042,672, 7–3–62, Cl. 260—248.
Lloyd Brothers, Inc.: *See*—
Klotz, Lyell J. 3,035,973.
Lloyd, Harold E., and J. L. Owens, to Western Electric Co., Inc. Apparatus for making electrical resistors. 3,063,346, 11–13–62, Cl. 90—11.52.
Lloyd, James R., to Cutlas Tool and Mfg. Co. Vehicle hub construction. 3,017,207, 1–16–62, Cl. 287—53.
Lloyd, Jim, to Blacklifter Corp. Tool for handling building blocks. 3,057,651, 10–9–62, Cl. 294—62.
Lloyd, John R., and R. W. Wolfe, to Union Carbide Corp. Method and apparatus for producing thermoplastic tubing. 3,061,876, 11–6–62, Cl. 18—14.
Lloyd, John C.: *See*—
Eggenberger, John S., Lloyd, and Smith. 3,019,125.
Eggenberger, John S., Lloyd, and Smith. 3,047,423.
Lloyd, Kenneth A.: *See*—
Winsor, Philip A., and Lloyd. 3,041,281.
Lloyd, Kermit A.: *See*—
Beach, Robert E., and Lloyd. 3,026,664.
Lloyd, Philip A.: *See*—
Henry, Everett A., and Lloyd. 3,052,428.
Lloyd, William A., and R. Zaphiropoulos, to Varian Associates. Improved vacuum pump. 3,042,824, 7–3–62, Cl. 313—7.
Lloyd, William A., and R. Zaphiropoulos, to Varian Associates. Glow discharge apparatus. 3,056,902, 10–2–62, Cl. 315—169.
Lloyd, William G., and T. Alfrey, Jr., to The Dow Chemical Co. Treatment of felts. 3,022,199, 2–20–62, Cl. 117—141.
Lo, Arthur W., to Radio Corp. of America. Magnetic core circuit. 3,056,115, 9–25–62, Cl. 340—174.
Lo, Chien-Pen, to Rohm & Haas Co. 3-thiocyanomethyl-2-benzothiazolinones and benzoxazolinones. 3,050,526, 8–21–62, Cl. 260—304.
Lo, Chien-Pen, and R. L. Orsage, to Rohm & Haas Co. N-succinimidomethyl-substituted quaternary ammonium compounds. 3,017,416, 1–16–62, Cl. 260—326.5.
Lo, Elizabeth S., to Johnson & Johnson. Curable product from a halohydrin and phenol condensation product. 3,015,647, 1–2–62, Cl. 260—47.
Lo, Elizabeth S., to Johnson & Johnson. Epoxide resin composition. 3,015,648, 1–2–62, Cl. 260—47.
Lo, Elizabeth S., to Minnesota Mining and Mfg. Co. Process of copolymerizing hexafluoropropene with vinylidene fluoride in the presence of silica and the product thereof. 3,023,187, 2–27–62, Cl. 260—41.
Loane, Lancelot B. Load-carrying apparatus. 3,057,663, 10–9–62, Cl. 298—24.
Lobash, Floyd: *See*—
Possis, Zinon C., Straub, Lobash, Johnson, and Solem. 3,065,212.
Straub, Melvin J., Shortell, Lobash, Doying, and Jounen. 3,061,909.
Lobato, Florentino. Concrete stairway. 3,055,146, 9–25–62, Cl. 50—109.
Lobb, James: *See*—
Bell, George A., and Lobb. 3,043,060.
Lober, Friedrich: *See*—
Freytag, Helmut, Lober F., deceased, Lober, L., heiress, and Pohle. 3,069,398.
Lober, Lieselotte: *See*—
Freytag, Helmut, Lober F., deceased, Lober, L., heiress, and Pohle. 3,069,398.
Lobdell, Roy K., to The Bendix Corp. Tension regulating device for spinning frames. 3,028,118, 4–3–62, Cl. 242—156.1.
Lobdell, Webster A.: *See*—
Buell, Richard W., Lobdell, and Wrinn. 3,034,813.
Lobeck, John H., and W. Fisher, Jr., to The Torrington Co., Bantam Bearings Division. Divided retainer for roller bearings. 3,046,065, 7–24–62, Cl. 308—217.
Lobeck, John H., and W. Fisher, Jr., to The Torrington Co., Bantam Bearings Division. Spherical roller bearing with bipartite retainer. 3,046,066, 7–24–62, Cl. 308—217.
Lobel, Martin A., 20% to A. R. Carling, 20% to D. E. Alton, 20% to A. D. Horn, and 20% to N. Aaron. Dial indicator. 3,041,734, 7–3–62, Cl. 33—172.
Lober, Friedrich: *See*—
Malz, Hugo, Lober, Bayer, and Scheurlen. 3,044,981.
Lober, Friedrich, E. Roos, and T. Kempermann, to Farbenfabriken Bayer Aktiengesellschaft. Vulcanization accelerators. 3,022,275, 2–20–62, Cl. 260—79.
Lober, Friedrich, H. Freytag, and H. Pohle, to Bayer Aktiengesellschaft Farbenfabriken. Vulcanization accelerators. 3,047,546, 7–31–62 Cl. 260—79.
Loblich, Hans J. Viscosimeter. 3,041,871, 7–3–62, Cl. 73—57.
Lobo, Paul A.: *See*—
Coyne, Donald M., Lobo, and Williams. 3,053,905.
Lobosco, Roscoe R.: *See*—
Allen, John P. C., Lobosco, and Heeney. 3,054,886.
Ruland, Edward J., Jr., Allen, and Lobosco. 3,021,420.
Lobosco, Roscoe R., S. H. Royer, and A. I. Miller, to Union Carbide Corp. Method of cutting. 3,037,888, 6–5–62, Cl. 148—9.
Lobosco, Roscoe R., R. Dean, Jr., and E. J. Ruland, Jr., to Union Carbide Corp. Electric arc working and control systems therefor. 3,041,445, 6–26–62, Cl. 219—131.
Lobosco, Roscoe R., and E. J. Ruland, Jr., to Union Carbide Corp. Automatic welding control. 3,054,885, 9–18–62, Cl. 219—131.
Locatelli, Antoine: *See*—
Bertin, Daniel, Locatelli, Mathieu, Muller, and Fritel. 3,052,675.
Locatelli, Gianluigi, to G. Buehler. Food-paste extrusion press. 3,059,595, 10–23–62, Cl. 107—14.
Lock, Erich, to Escher Wyss Aktiengesellschaft. Damping vibrations in a gas bearing. 3,049,383, 8–14–62, Cl. 308—9.
Locher, Hans, to Zellweger Ltd., Uster Factories for Apparatus and Machines. Apparatus for gaging textile materials. 3,039,051, 6–12–62, Cl. 324—61.
Locher, J. Hartley, to Socony Mobil Oil Co., Inc. Apparatus for weighing railroad cars. 3,028,923, 4–10–62, Cl. 177—132.
Lochschmidt, Franz: *See*—
Keller, Richard, Quest, Schroer, and Lochschmidt. 3,048,206.
Lock, Everett H.: *See*—
Eckel, John E., and Lock. 3,016,098.
Lock, Thomas, to Borg-Warner Corp. Liquid vapor pump. 3,068,799, 12–18–62, Cl. 103—88.
Lock, Tom, to Associated Electrical Industries Ltd. Connector arrangement for coaxial conductors. 3,031,636, 4–24–62, Cl. 339—89.
Lock, Tom, to Painton & Co. Ltd. Socket connector for printed circuit board. 3,048,811, 8–7–62, Cl. 339—176.
Locke, David R.: *See*—
Somers, Raymond A., Kahn, and Locke. 3,039,188.
Locke, Frank W.: *See*—
Mairs, Thomas G., and Locke. 3,049,279.
Russell, Henry R., and Locke. 3,054,682.
Locke, Frank W., to Waldorf Paper Products Co. Angular containers. 3,027,061, 3–27–62, Cl. 229—16.
Locke, John P.: *See*—
Boyer, Frank W., and Locke. 3,024,655.
Locke Steel Chain Co., The: *See*—
Onulak, Eugene W. 3,030,616.
Onulak, Eugene W. 3,063,237.
Onulak, Eugene W. 3,068,993.
Onulak, Eugene W. 3,068,994.
Onulak, Eugene W., and Balazs. 3,039,829.
Locke Stove Co.: *See*—
Martin, Norman L. 3,043,248.
Lockett, George E.: *See*—
Fortescue, Peter, and Lockett. 3,034,976.
Fortescue, Peter, and Lockett. 3,039,947.
Lockett James H., to Borg-Warner Corp. Pressure loaded hydraulic apparatus. 3,057,302, 10–9–62, Cl. 103—126.
Lockett, William, Jr.: *See*—
Ruef, Lloyd M., and Lockett. 3,066,093.
Lockett, William, Jr., to Esso Research and Engineering Co. Catalyst reactivation process. 3,020,240, 2–6–62, Cl. 252—419.
Lockey, Kenneth L.: *See*—
Phelan, Roy L., Minard, and Lockey. 3,028,956.
Lockfast Mfg. Co., Inc.: *See*—
Rudow, Henry and M. 3,042,468.
Lockhart Harold A.: *See*—
Greene, Robert R., Harker, and Lockhart. 3,059,582.
Greene, Robert R., Harker, and Lockhart. 3,063,282.
Lockhart, Hervey D. Fishing float. 3,020,670, 2–13–62, Cl. 43—4.91.
Lockhart, Newton F., to International Business Machines Corp. Magnetic equals circuit. 3,037,197, 5–29–62, Cl. 340—174.
Lockhart, Newton F., to International Business Machines Corp. Magnetic trigger. 3,059,122, 10–16–62, Cl. 307—88.
Lockhart, Stanford C., and T. Fraver, to The Goodyear Tire & Rubber Co. Acceleration and deceleration detector switch. 3,043,927, 7–10–62, Cl. 200—61.46.
Lockheed Aircraft Corp.: *See*—
Arnold, George L., Bailey, Lindsay, and Smithson. 3,047,861.
Baird, Richard H. 3,059,207.
Baldwin, Edward P., and English. 3,059,470.
Barcellona, Joseph J., and Lechner. 3,026,071.
Bechtell, George R. 3,039,488.
Bell, Raymond M. 3,045,476.
Blain, Jim W. 3,038,117.
Bonza, Louis F., Byrne, and Smith. 3,041,668.

Lockheed Aircraft Corp.: *See*—Continued
Buckman, Thomas P. 3,069,891.
Christenson, Charles H. 3,015,460.
Clauson, Walton E., and Zsoka. 3,055,785.
Colman, Philip A., and Frost. 3,045,236.
Crandell, Richard M., and Hoffman. 3,045,470.
Cruz, Edward S. 3,047,093.
Davis, Edward M. 3,026,516.
Derrington, Edward R., and Ray. 3,026,897.
Der Yuen, Frank, and Johnson. 3,060,471.
Dessler, Alexander J. 3,030,571.
Dessler, Alexander J. 3,058,344.
Dessler, Alexander J., Vedder, and Hertzberg. 3,036,213.
Dillon, Alfred J., Jr. 3,029,804.
Ensrud, Alf F., Ochieano, and Steinbacher. 3,025,935.
Fitzgerald, Francis J. 3,065,672.
Frohman, Robert, Post, and Faber. 3,052,842.
Gibbens, Edmond E., and Louthan. 3,037,502.
Hale, James R., and Mauer. 3,050,691.
Harnois, Nelson C. 3,019,429.
Herrmann, Werner E. 3,065,932.
Hilsenrath, Manfred. 3,031,588.
Hoffman, Jess H. 3,034,066.
Holbrook, James G., and Lange. 3,036,273.
Hollander, Lewis E., Jr. 3,061,807.
Holt, William M. 3,021,951.
Hong, James, Cathaway, Richter, and Hastings. 3,023,-985.
Johansson, James W. 3,070,765.
Johnson, Clarence L., and Reed. 3,026,773.
Kaiser, Harold R. 3,069,662.
Kelly, Merrill H. 3,066,889.
Kinney, Edward S., and Wright. 3,059,163.
Lahde, Reinhard N. 3,046,927.
Leaman, Audley B. 3,024,592.
Lindemann, Richard J., and Richards. 3,040,159.
MacKenzie, David D. 3,047,926.
Matthews, Florence M., and Stribling. 3,053,482.
Mauer, Robert C. 3,047,776.
Nisbet, Thomas R. 3,019,345.
Nisbet, Thomas R. 3,025,395.
Nisbet, Thomas R., Heeger, and Morsette. 3,034,011.
Olson, David C., and Clifford. 3,066,950.
Quinn, Ross A., and Karlak. 3,022,201.
Perls, Thomas A., and Miles. 3,033,027.
Price, Nathan C. 3,038,305.
Price, Nathan C. 3,066,890.
Rardin, Glen N. 3,065,720.
Robertson, Carter. 3,059,116.
Rusk, Stanley J. 3,061,239.
Sammis, John C., Newton, and MacLennan. 3,059,235.
Schwartz, Samuel A. 3,020,340.
Schwartz, Samuel A. 3,043,992.
Scott, Reed B. 3,065,331.
Seager, Donald B. 3,066,891.
Singdale, Fred N., Wedemeyer, and Righter. 3,036,283.
Spearman, Charles K. 3,026,068.
Spearman, Charles K., and Ward. 3,047,254.
Swales, Frank, Kurvers, and Green. 3,019,653.
Taylor, Donald L., and Thompson. 3,047,300.
Taylor, Donald L., and Thompson. 3,047,301.
Turner, Robert M. 3,067,694.
Vigil, Juan G. 3,065,937.
Wakefield, Douglas B. 3,050,790.
Williar son, Stephen J., Jr. 3,063,515.

Lockheed Air Terminal, Inc.: *See*—
Der Yuen Frank. 3,046,908.

Lockheed Propulsion Co.: *See*—
Fletcher, David A. 3,036,940.

Lockie, Edward G. Golf club display. 3,043,437. 7–10–62, Cl. 211—60.

Lockington Norman A.: *See*—
Samuel, Robert L., and Lockington. 3,029,162.

Lock Joint Pipe Co.: *See*—
Kennison, Hugh F. 3,034,536.
Olivier, Daniel E. 3,046,631.
Seaman, Francis E., and Garrabrant. 3,034,537.

Lockport Felt Co., Inc.: *See*—
Helland, Howard M. 3,039,496.

Lockwood, Arthur W., to Trubenised Co. (Registered Trust). Sewing machines. 3,037,472. 6–5–62, Cl. 112—206.

Lockwood, Charles D. Adjustable can handle. 3,024,057, 3–6–62. Cl. 294—34.

Lockwood, George H.: *See*—
Hatstat, Robert G., Lockwood, and Schmidt. 3,019,565.

Lockwood, George H., to The Heald Machine Co. Grinding machine. 3,032,935, 5–8–62, Cl. 51—103.

Lockwood, George H., and A. R. Menard, to The Heald Machine Co. Feed mechanism. 3,035,378, 5–22–62, Cl. 51—165.

Lockwood Graders: *See*—
Fry, Lyle L. 3,042,123.

Lockwood, Lockwood K. Siding construction. 3,060,641, 10–30 62, Cl. 50—215.

Lockwood, Robert C.: *See*—
Algase, Lawrence I., and Lockwood. 3,067,392.

Lockwood, Vernard E.: *See*—
Riebe, John M., and Lockwood. 3,028,122.

Lockwood, Warren H. Reversible and tiltably nestable containers. 3,018,003, 1–23–62, Cl. 211—126.

Lockwood, Warren H. Nesting and stacking containers. 3,048,302, 8–7–62, Cl. 220—97.

Lockwood, William H., and H. Peters, to Bell Telephone Laboratories, Inc. Method of fabricating a laminated magnetic recording sleeve. 3,040,386, 6–26–62, Cl. 18—59.

Lococo, Nell G. Sugar dispenser with lump disintegrating screen. 3,031,107, 4–24–62, Cl. 222—189.

Lodal Inc.: *See*—
Brisson, John R. 3,016,157.

Lodding Engineering Corp.: *See*—
Dunlap, Harold E. 3,017,930.
Dunlap, Harold E. 3,027,940.
Dunlap, Harold E. 3,027,941.

Lodding, William F.: *See*—
Valentine, Orvill H., Jr., Lodding, Kinkead, and Moorhead. 3,023,899.

Lodding, William F., to Ethicon, Inc. Sorting apparatus. 3,023,896, 3–6–62, Cl. 209—74.

Lode, Tenny D., to Minneapolis-Honeywell Regulator Co. Computers. 3,033,453, 5–8–62, Cl. 235—153.

Loderhose, Richard E. Article with removable picture section. 3,024,958, 3–13–62, Cl. 229—17.

Loderhose, Richard E. Phonograph jacket and method of making same. 3,061,172, 10–30–62, Cl. 229—68.

Lodestar Corp., The: *See*—
Tripodi, Louis J. 3,027,197.

Lodge, Alvin, to American Sterilizer Co. Air filter. 3,059,-666, 10–23–62, Cl. 137—512.

Lodge, Alvin, to American Sterilizer Co. Vacuum switch. 3,064,322, 11–20–62, Cl. 21—94.

Lodge & Shipley Co., The: *See*—
Bycer, Manuel M., Hohenadel, and Soffa. 3,044,642.
Colebrook, James N. 3,043,172.
Floyd, Candon. 3,064,510.
McHugh, Charles J., Jr., and Rowekamp. 3,032,798.
Pater, Paul G. 3,034,389.
Sporck, Claus L. 3,029,667.
Sporck, Claus L. 3,029,764.
Sporck, Claus L. 3,055,327.
Sporck, Claus L., and Busch. 3,065,473.
Sporck, Claus L., and Sassen. 3,058,205.

Lodholm, Valdemar, to Band-It Co. Tool for applying band clamps. 3,067,640, 12–11–62, Cl. 81—9.3.

Lodige, Fritz: *See*—
Lodige, Wilhelm and F., and Lucke. 3,018,059.
Lödige, Wilhelm and F., and Lücke. 3,027,102.

Lodige, Wilhelm and F., and J. Lucke. Process and an apparatus for mixing and comminuting materials. 3,018,059, 1–23–62, Cl. 241—25.

Lödige, Wilhelm and F., and J. Lücke. Apparatus for mixing and comminuting. 3,027,102, 3–27–62, Cl. 241—98.

Lo Duca, Thomas S. Key arrangements for chord organs. 3,057,245. 10–9–62, Cl. 84—423.

Loeb, Ernest, to Allis-Chalmers Mfg. Co. Light water moderated nuclear research reactor. 3,042,601, 7–3–62, Cl. 204—193.2.

Loeb, Henry. Gun holder. 3,022,898, 2–27–62, Cl. 211—64.

Loeb, Leopold: *See*—
Clayton, Robert L., Jr., and Loeb. 3,068,125.
Segal, Leon, Loeb, Trina, and Clayton. 3,031,335.

Loeb, Leopold, R. L. Clayton, Jr., S. P. Koltum, F. J. Philips, L. Segal, and K. H. Takemura, to United States of America, Army. Procedure for producing textiles resistant to chemical warfare liquids. 3,054,695, 9–18–62, Cl. 117—72.

Loeb, Stephen H. Article-carrying device. 3,028,974, 4–10–62, Cl. 211—113.

Loeb, William E., to Union Carbide Corp. Oxidation of aromatic hydrocarbons. 3,033,903, 5–8–62, Cl. 260—621.

Loebel, Arnold B.: *See*—
Goldberg, Albert I., Loebel, and Jasinski. 3,030,326.

Loeber, Donald E., to Simmonds Aerocessories, Inc. Method for photographically producing light balanced dial indicators. 3,069,265. 12–18–62, Cl. 96—35.

Loebler, Peter, R. Helligrath, H. Elsner, and R. Huttenlocher, to Chemische Fabrik Duren G.m.b.H. Urea resin curing agents, compositions and process for the improvement in the properties of textiles. 3,060,061, 10–23–62, Cl. 117—139.4.

Loebner, Egon E.: *See*—
Hook, Harvey O., and Loebner. 3,031,579.

Loebner, Egon E., to Radio Corp. of America. Logic network. 3,050,633, 8–21–62, Cl. 250—209.

Loechl, Clarence J., to The Celotex Corp. Drying of gypsum board. 3,043,014, 7–10–62, Cl. 34—43.

Loedding, Alfred C., to United States of America, Air Force. Winglet drouge for aerial refueling. 3,048,357, 8–7–62, Cl. 244—135.

Loef, Jakob, to Firma Steinbock G.m.b.H. Counterweight for three wheel vehicles. 3,029,088, 4–10–62, Cl. 280—62.

Loeffler, Donald E., to Shell Oil Co. Preparation of clay thickened grease. 3,036,001, 5–22–62, Cl. 252—28.

Loeffler, Donald E., to Shell Oil Co. High temperature grease compositions. 3,052,632, 9–4–62, Cl. 252—51.5.

Loeffler, Jacob F. Adjustable surgical retractor. 3,030,948, 4–24–62. Cl. 128—17.

Loeffler, John W., to Cutler-Hammer, Inc. Automatic compensating control for article interceptors. 3,027,817, 4–3–62, Cl. 93—93.

Loehnis, John L. Detachable tripod mount. 3,029,053, 4–10–62, Cl. 248—187.

Loehr, Barbara F., to Crown Zellerbach Corp. Impregnated sheets for preserving perishable foodstuffs. 3,044,885, 7–17–62, Cl. 99—154.

Loepfe, Aktiengesellschaft Gebruder: *See*—
Loepfe, Erich. 3,053,137.
Loepfe, Erich, to Loepfe Gebruder Aktiengesellschaft. Electro-optical apparatus for sensing in counting regulating, and control systems. 3,053,137. 9–11–62, Cl. 88—144.
Loepfe, Erich. Electro-optical weft feeler for looms. 3,053,-139. 9–11–62, Cl. 88—14.
Loepfe, Erich, and W. Eichenberger. Thread cleaner for textile machines. 3,053,986, 9–11–62, Cl. 250—219.
Loesch, Ronald E., to General Motors Corp. Lamp socket. 3,017,599, 1–16–62, Cl. 339—91.
Loeser, Donald B., to Paper Machinery Corp. Cup feeder. 3.057,515. 10–9–62, Cl. 221—221.
Loeser, Donald B., to Paper Machinery Corp. Rim curling mechanism for containers. 3,065,677, 11–27–62, Cl. 93—36.5.
Loeser, Donald B., and R. E. Bodendoerfer, to Paper Machinery Corp. Cone cup making machine. 3,065,676, 11–27–62, Cl. 93—36.2.
Loev, Bernard: *See*—
Flores, Minerva C., and Loev. 3,055,928.
Olin, John F., Buchholz, Loev, and Goshorn. 3,070,632.
Loev, Bernard, and J. F. Olin, to Pennsalt Chemical Corp. Novel process for preparation of mercaptan by catalytic cleavage of sulfides. 3,069,472, 12–18–62, Cl. 260—609
Loev, David, to Burroughs Corp. Reversible shift register. 3,023,401, 2–27–62, Cl. 340—174.
Loevenstein, Hirsch, C. W. Carlson, and L. B. Gunderson, to Harvey Aluminum (Inc.). Apparatus for separating, washing and classifying solids. 3,019,895, 2–6–62, Cl. 209—12.
Loew, David L., Jr.: *See*—
Krag, Niels. 3,051,109.
Loew, Günther: *See*—
Merten, Rudolf, and Loew. 3,055,845.
Merten, Rudolf, Loew, and Bayer. 3,047,540.
Morschel, Heinrich, and Loew. 3,021,255.
Treschev, Victor, Loew, Delfs, and Möller. 3,036,021.
Loewe, Garrick, to Kux Products Co. Fixture for locating indicia elements on an aligning strip. 3,066,724, 12–4–62, Cl. 156—562.
Loewe, Heinz: *See*—
Lammler, Georg, Loewe, and Ross. 3,029,186.
Loewe, Leslie F., to Angelica Uniform Co. Utility garment. 3,066,307, 12–4–62, Cl. 2—74.
Loewe, Richard T., to North American Aviation, Inc. Device for providing inputs to a digital computer. 3,034,101, 5–8–62, Cl. 340—172.5.
Loewe, Siegmund. Magnetic-tape-reel device. 3,059,871, 10–23–62, Cl. 242—55.13.
Loewe, Siegmund, and R. E. Schulz: said Schulz assor. to said Dr. S. Loewe. Tape reel drive system. 3,018,063, 1–23–62, Cl. 242—55.12.
Loewe, Siegmund, and W. Zorn; said Zorn assor. to Lowe. Sound recording and reproducing device. 3,029,033, 4–10–62, Cl. 242—55.12.
Loewenstein, Klaus L., to Microcell Ltd. Glass compositions. 3,060 041 10–23–62, Cl. 106—50.
Loewy Engineering Co. Ltd., The: *See*—
Wyzer, Ronald J. 3,038,520.
Woolridge, Ronald F., and Basevi. 3,043,341.
Loewy, Raymond. Vertically aligned food cans. 3,065,558, 11–27–62, Cl. 40—306.
Lofaro, Domenick. Keyboard guard for accordions. 3,031,-910. 5–1–62, Cl. 84—453.
Loffler, Karl, to Agfa Aktiengesellschaft. Masking of cyan images in color photography. 3,028,237, 4–3–62, Cl. 96—9.
Loffler, Walther. Floor drain. 3,066,802, 12–4–62, Cl. 210—163.
Lofgren, Gustaf E.: *See*—
Allenby, William F., and Lofgren. 3,017,654.
Loft, Arne, to General Electric Co., Gas turbine overspeed protection system. 3,038,306, 6–12–62, Cl. 60—39.14.
Loft Candy Corp.: *See*—
Fasano, Richard E. 3,025,983.
Lofthus, Leon J., to United States of America, Navy. Magnetic cable measuring device. 3,039,391, 6–19–62, Cl. 102—13.
Loftis, Homer J., to Henrite Products Corp. Motor mounting ring. 3,065 941, 11–27–62, Cl. 248—26.
Loftus, William H. to E. I. du Pont de Nemours and Co. Process for producing sodium. 3,020,221, 2–6–62, Cl. 204—68.
Logan, Campbell F. Swimming pool cover. 3,063,062, 11–13–62, Cl. 4— 172.
Logan, Campbell F. Underwater Christmas tree protector. 3,063 500. 11–13–62, Cl. 166—66.5.
Logan Charles D.: *See*—
Craig, David, and Logan. 3,054,659.
Craig, David, and Logan. 3,054,825.
Logan Co.: *See*—
McKee, George R., and Prentice. 3,043,237.
Logan Gear Co., Inc.: *See*—
Crum, Joe, Jr. 3,069,875.
Logan, James J., to The Bendix Corp. Electrical discharge device. 3,025,425, 3–13–62, Cl. 313—143.
Logan, James R.: *See*—
Bulat, Thomas J., Logan, and Kusy. 3,017,342.
Logan, John A.: *See*—
Obert, Edward F., and Logan. 3,032,776.
Logan, John W., Jr., and R. J. Bush, to Westinghouse Air Brake Co. Valve assembly. 3,068,900, 12–18–62, Cl. 137—623.
Logan, Kenneth C., and J. Mardon. Paper machine headbox. 3,038,538, 6–12–62, Cl. 162—336.
Logan, Malcolm, to Holi-Gay Mfg. Co. Packaging container and method of packing same. 3,052,348, 9–4–62, Cl. 206—65.
Logan Mfg. Co.: *See*—
Nelson, James F., Hunt, and Doty. Re. 25,175.
Logan, Mason A., to Bell Telephone Laboratories, Inc. Electric wave synchronization. 3,020,479. 2–6–62, Cl. 328—13.
Logan, Mason A., to Bell Telephone Laboratories, Inc. Resistivity measuring circuit. 3,048,776, 8–7–62, Cl. 324—64.
Logan, Maurus C.: *See*—
Thomas, Edward D., Crimmins, and Logan. 3,059,211.
Logan, Maurus C., to The Thomas & Betts Co. Cable bundling and supporting strap. 3,022,557, 2–27–62, Cl. 24—17.
Logan, Maurus C., to The Thomas & Betts Co. Device for tensioning bundling straps. 3,047,945, 8–7–62, Cl. 30—134.
Logan, Maurus C., and D. J. Crimmins, to The Thomas & Betts Co. Wire-to-wire connection. 3,019,410, 1–30–62, Cl. 339—253.
Logan, Ralph L., to J. G. McAlister, Inc. Plural motor selective control system. 3,034,029, 5–8–62, Cl. 318—103.
Logan, Richard S., to Phillips Petroleum Co. Production of calcium petroleum sulfonates. 3,023,231, 2–27–62, Cl. 260—504.
Logan, Willson L., to United States of America, Air Force. Symmetrical off-set relay circuit utilizing a non-linear difference amplifier. 3,052,852, 9–4–62, Cl. 328—142.
Logansport Machine Co.: *See*—
Becker, Robert E. 3,057,237.
Logemann George H., and J. Georgeoff, to Ekco Containers, Inc. Machine for foil pans and the like. 3,064,-407. 11–20–62, Cl. 53—307.
Logemann, Warren F.: *See*—
Larson, John I., Mohr, Eilers, and Logemann. 3,065,974.
Loges, Hans: *See*—
Fischer, Friedrich, Krug, Loges, and Rodewald. 3,022,161.
Logetronics, Inc.: *See*—
Folse, Kenneth H. 3,036,497.
Logie, Gordon R.: *See*—
Smith, Robert R., Mann, and Logie. 3,066,115.
Logie, Russell B., to Sperry Rand Corp. Positive rack drive for calculators. 3,057,548, 10–9–62, Cl. 235—60.
Loginow, Serge: *See*—
Simpson, Charles G., and Loginow. 3,022,019.
Logojda, Geza, J. Poussardin, and M. Dru, to Ste Preparation Industrielle des Combustibles. Heavy media separator. 3,040 889, 6–26–62, Cl. 209—172.5.
Logrippo, James, to Norristown Rug Mfg. Co. Thermoplastic rug and method of making same. 3,054,707, 9–18–62, Cl. 154—49.
Logsdon, Robert F.: *See*—
Cervenenka, Lawrence J., and Logsdon. 3,019,127.
Logue, Clyde C., Jr., to Thompson Ramo Wooldridge Inc. Pressure vessels and method of making same. 3,024,936, 3–13–62. Cl. 220—3.
Logue, Joseph C.: *See*—
Bruce, George D., and Logue. Re. 25,262.
Logue, Joseph C., to International Business Machines Corp. Apparatus utilizing minority carrier storage for signal storage, pulse reshaping, logic gating, pulse amplifying and pulse delaying. 3,070,779, 12–25–62, Cl. 340—166.
Logue, Joseph C., and J. L. Walsh, to International Business Machines Corp. Binary type pulse handling device. 3,028,506, 4–3–62, Cl. 307—88.5.
Logue, Joseph C., and R. A. Henle, to International Business Machines Corp. Multistable circuit. 3,037,127, 5–29–62, Cl. 307—88.5.
Logue, Richard H., to Denver Equipment Co. Sand scrubber. 3,054 230. 9–18–62, Cl. 51—163.
Logue, Richard M.: *See*—
Sears, Kay G., Logue, and Koulomzin. 3,065,414.
Lohest, Hans: *See*—
Weber, Wolfgang, and Lohest. 3,054 569.
Lohest, Hans, to Barmer Maschinenfabrik Aktiengesellschaft. Filament winding apparatus. 3,060,357, 10–23–62, Cl. 318—6.
Lohmann, Adelbert, H. Friess, A. Hinze, and H. Schmidt, to Siemens & Halske Aktiengesellschaft Berlin and Munich. Method of and apparatus for editing single-tape television recordings. 3,026,369, 3–20–62, Cl. 178—5.8.
Lohmann K.G.: *See*—
Stowasser, Heribert. 3,062,209.
Wolf, Helmut. 3,053,252.
Lohmeyer, Walter G., to Fairchild Camera and Instrument Corp. Transaction-recording camera. 3,030,169, 4–17–62, Cl. 346—107.
Lohn, Edwin E. Shift mechanism. 3,018,670, 1–30–62, Cl. 74—477.
Lohnas, John D., and A. B. Carlson, to West Virginia Pulp and Paper Co. Paper coating composition. 3,060.044, 10–23–62, Cl. 106—171.
Lohneiss, William H., and R. Boxer, said Lohneiss assor to Servomechanisms, Inc. Computer circuit. 3,039,692, 6–19–62, Cl. 235—183.
Lohoar, John R., to Marconi's Wireless Telegraph Co. Ltd. Anodised helical tape waveguide for modulating arrangements. 3,054,075, 9–11–62, Cl. 333—96.
Lohr, John W., to The Andrew Jergens Co. Method of making fatty alkanol amides. 3,040,075, 6–19–62, Cl. 260—404.

Lohr, Raymond J. : *See*—
Cook, Calvin S., Hirsch, Lohr, and Rees. 3,040,461.
Hirsch, Mahlon E., and Lohr. 3,045,377.
Hirsch, Mahlon E., and Lohr. 3,057,102.
Lohr, Raymond J., to Louis Marx & Co., Inc. Table tennis practice device. 3,043,592, 7–10–62, Cl. 273—30.
Lohr, Thomas E. : *See*—
Arlauskas, Alfonsas, and Lohr. 3,069,152.
Hoag, William G., and Lohr. 3,062,527.
Horton, George B., and Lohr. 3,022,975.
Lohr, Thomas E., to General Motors Corp. Continuous brake for a window drive mechanism. 3,023,854, 3–6–62, Cl. 188—83.
Lohr, Thomas E., to General Motors Corp. Window regulator. 3,052,497, 9–4–62, Cl. 296—44.
Lohr, Thomas E., to General Motors Corp. Welding method. 3,056,884, 10–2–62, Cl. 219—93.
Lohrenz, John W. Protective helmet. 3,039,108, 6–19–62, Cl. 2—3.
Lohrer, Anton : *See*—
Fricke, Erwin, and Damm. 3,070,112.
Lohrman, William V. : *See*—
Knapp, William E., and Lohrman. 3,016,958.
Lohrman, William V., to Deere & Co. Spring tooth and tooth bar construction. 3,049,184, 8–14–62, Cl. 172—707.
Lohrmann, Erich, to Jagenberg-Werke Akt.-Ges. Method of and means for detecting flaws and the like in a plurality of superposed webs or sheets. 3,070,365, 12–25–62, Cl. 270—52.
Lohs, Willy, W. Paul, and H. Kallhardt, to Siemens & Halske Aktiengesellschaft. Telephone dial. 3,043,917, 7–10–62, Cl. 179—90.
Lohse, Paul : *See*—
Jokos, Theodor, and Lohse. 3,045,720.
Lohse, Paul, to Firma Fr. Hesser Maschinenfabrik-Aktiengesellschaft. Bag closing machines. 3,017,731, 1–23–62, Cl. 53—201.
Loiacano, Leo L., to Evans O. Le Blanc. Massage machine. 3,032,205, 11–6–62, Cl. 128—33.
Loiseau, Henri F. M. : *See*—
Destuynder, Roger M., and Loiseau. 3,039,296.
Loiselle, Edmond W. Guide for a sewing machine. 3,054,367, 9–18–62, Cl. 112—152.
Loizillon, Guy, to Societe d'Etudes et de Participations pour l'Industrie et le Commerce de la Bonneterie. Seamless knitted hosiery article. 3,015,943, 1–9–62, Cl. 66—188.
Lojewski, Eugene A., to Olin Mathieson Chemical Corp. Process for preparing pentachloronitrobenzene. 3,026,358, 3–20–62, Cl. 260—646.
Lok-Trak, Inc. : *See*—
Lucas, Stephen J., and Tabron. 3,052,502.
Lucas, Stephen J., and Tabron. 3,056,633.
Löliger, Willi, to Alpura Aktiengesellschaft. Method and means for sterilizing striplike material. 3,020,120, 2–6–62, Cl. 21—2.
Loliger, Willi, to Alpura A.G. Method and means for preventing reinfection of the sterilized surface of sheet-like packing material. 3,055,731, 9–25–62, Cl. 21—2.
Lolkema, Jan, G. Moes, and W. F. Vogel, to W. A. Scholten's Chemische Fabrieken N.V. Method of sizing textile yarns. 3,036,935, 5–29–62, Cl. 117—139.5.
Loma Machine Mfg. Co., Inc. : *See*—
Schalich, Walter F. 3,070,147.
Lomax, Clarence E., to Automatic Electric Laboratories, Inc. Selective ringing multi-party telephone system. 3,033,932, 5–8–62, Cl. 179—17.
Lomax, Clarence E., to Automatic Electric Laboratories, Inc. Line circuit with two-way transfer. 3,041,405, 6–26–62, Cl. 179—18.
Lomax, Clarence E., to Automatic Electric Laboratories, Inc. PBX toll connector providing special service. 3,050,590, 8–21–62, Cl. 179—27.
Lomax Jules S. : *See*—
Petterson, Birger, Jr., and Lomax. 3,068,683.
Lombard, Adrian A., and W. H. Wilkinson, to Rolls-Royce Ltd. Jet noise suppressor nozzle. 3,065,818, 11–27–62, Cl. 181—33.
Lombard Corp. : *See*—
Lombard, Daniel L. 3,040,871.
Sofranko, Andrew J., and Dery. 3,059,509.
Lombard, Daniel L., to Lombard Corp. Automatic filing system. 3,040,871, 6–26–62, Cl. 198—79.
Lombard, Ralph S. : *See*—
Fulton, George P., and Lombard. 3,015,504.
Lombardi, Leo. Bowling equipment. 3,036,750, 5–29–62, Cl. 224—45.
Lombardi, Louis. Traction device. 3,045,738, 7–24–62, Cl. 152—225.
Lombardi, Louis J., H. J. Wright, and P. F. Westfall, to Cook Paint & Varnish Co. Water-soluble coating compositions. 3,030,321, 4–17–62, Cl. 260—23.
Lombardi, Louis J., H. J. Wright, and P. F. Westfall, to Cook Paint & Varnish Co. Coating composition comprising a vinyl copolymer a phenol-aldehyde resin and an epoxy compound, method for preparing same, and metal coated therewith. 3,030,332, 4–17–62, Cl. 260—43.
Lombardino, Joseph G., W. M. McLamore, and G. D. Laubach, to Chas. Pfizer & Co., Inc. Azabenzopyridocolines. 3,021,-331, 2–13–62, Cl. 260—251.
Lombardino, Joseph G., W. M. McLamore, and G. D. Laubach, to Chas. Pfizer & Co., Inc. Benzopyridocolines. 3,042,671, 7–3–62, Cl 260—243.
Lombardino, Joseph G., W. M. McLamore, and G. D. Laubach, to Chas. Pfizer & Co., Inc. Novel 1,4-diazepines. 3,045,008, 7–17–62, Cl. 260—239.3.
Lombardino, Joseph G., and W. M. McLamore, to Chas. Pfizer & Co., Inc. New heterocyclic amides. 3,055,894, 9–25–62, Cl. 260—247.5.
Lombardo, Pasquale : *See*—
Gilbert, Everett E., and Lombardo. 3,037,906.
Lombardo, Silvio. Broiler. 3,052,177, 9–4–62, Cl. 99—390.
Lombardo, Vincent. Retractable spout for containers. 3,044,668, 7–17–62, Cl. 222—518.
Lommel, William J. : *See*—
Sperti, George S., and Lommel. 3,052,815.
Loncar, Stevan, to Industrija Skroba. Method of making a fondant-type product. 3,024,115, 3–6–62, Cl. 99—134.
London, Gilbert J., and S. Zirinsky, to United States of America, Air Force. Hardening of copper alloys. 3,054,671, 9–18–62, Cl. 75—133.
London, Harry J. Multiple glass sheet glazing unit. 3,030,-673, 4–24–62, Cl. 20—56.5.
London, Melvin D., to The Absorbent Cotton Co. Bag closure and carrier. 3,017,070, 1–16–62, Cl. 229—62.
Lonergan, J. E., Co. : *See*—
Smith, Ronald V. 3,027,916.
Smith, Ronald V. 3,042,068.
Lone Star Boat Co. : *See*—
Whalen, Frank B. 3,043,459.
Long, Alan G., S. Earlsey, and G. F. H. Green, to Glaxo Laboratories Ltd. Preparation of 21-acyloxy-17α-hydroxy-16β-methylpregna-1,4,9-triene-3 20-dione from the corresponding 2,4 dibromo derivative. 3,060,199, 10–23–62, Cl. 260—357.45.
Long, Anna K. R. : *See*—
Jokos, Leo J. 3,020,077.
Long, Calvin L. : *See*—
Rusoff, Irving I., Ohan, and Long. 3,047,395.
Long, Carl O., ½ to R. A. Walsh. Wheel truing device. 3,018,588, 1–30–62, Cl. 51—104.
Long, Charles A., to Struthers Wells Corp. Method of making pressure vessels. 3,068,562, 12–18–62, Cl. 29—421.
Long, Claude G. : *See*—
Guth, Eugene D., and Long. 3,044,910.
Hutchinson, William M., and Long. 3,022,206.
Long, Claude G., to Phillips Petroleum Co. Reinforced gelled propellants. 3,035,950, 5–22–62, Cl. 149—38.
Long Corp. : *See*—
Long, Hubert O. 3,057,634.
Long, Donald A. : *See*—
Goldammer, Arthur R., Long, and Mosher. 3,059,359.
Long, Edgar C., to Hamilton Watch Co. Primary cell. 3,015,681, 1–2–62, Cl. 136—111.
Long, Edward E. : *See*—
Davis, Ralph M., Shuxteau, and Long. 3,036,753.
Long, Elton B., to J. I. Case Co. Swing mechanism for backhoe. 3,047,171 7–31–62, Cl. 214—138.
Long, Emile D., and H. Banks, to The Bendix Corp. Fuel supply system, 3,032,025, 5–1–62, Cl. 123—179.
Long, Everett, G. Packman, and J. R. Gurner, to United Kingdom Atomic Energy Authority and Plessey Co. Ltd. Apparatus for detecting the presence of radioactive particles in a gas stream. 3,029,344, 4–10–62, Cl. 250—83.3.
Long, Fleming D., to Liberty Engineering Co. Friction tester. 3,020,744, 2–13–62, Cl. 73—9.
Long, Fleming D., to Container Corp. of America. Disposable incubator with reusable hardware. 3,058,446, 10–16–62, Cl. 119—30.
Long, Francis V. Method of fabricating precision formed plastic products. 3,030,259, 4–17–62, Cl. 156—245.
Long, George B. : *See*—
Brucken, Byron L., and Long. 3,069,697.
Long, George B., to General Motors Corp. Refrigerating apparatus. 3,048,985, 8–14–62, Cl. 62—186.
Long, George B., and R. S. Gaugler, to General Motors Corp. Domestic appliance. 3,027,653, 4–3–62, Cl. 34—86.
Long, George B., and N. Q. Sloan, to General Motors Corp. Motor control system for domestic appliance. 3,049,655, 8–14–62. Cl. 318—305.
Long, Gertrude L. Paint can holder. 3,051,429, 8–28–62, Cl. 248—226.
Long, Harry G., and W. B. Crane, to Allied Plastics Co. Wrapper for packaged produce. 3,040,968, 6–26–62, Cl. 229—87.
Long, Helen : *See*—
Brown, Lawrence W., Herbert, and Paul. 3,068,792.
Long, Henry A. : *See*—
Dungan, Richard T., Long, Stupka, Taylor, and Wise. 3,046,944.
Long, Hubert O., to Long Corp. Toy ski sled. 3,057,634, 10–9–62, Cl. 280—16.
Long, James, to General Electric Co. Dual range motor speed control system. 3,054,937, 9–18–62, Cl. 318—144.
Long, James, and W. R. Miller, to General Electric Co. Control network. 3,032,698, 5–1–62, Cl. 322—19.
Long, Jasper : *See*—
Hess, Lester J., Kennedy, and Long. 3,027,537.
Long, Jasper, L. J. Hess, and M. Kennedy, to Wade Electric Products Co. Switch. 3,038,053, 6–5–62, Cl. 200—159.
Long, John B., to Marmon-Herrington Co., Inc. Conveyor having load processing means. 3,016,204, 1–9–62, Cl. 241—200.
Long, John C. Air movement control and method. 3,023,-690, 3–6–62, Cl. 98—40.

Long, John C. Telephone attachment device. 3,063,183, 11–13–62. Cl. 40—336.
Long, John C. and L. D. Jacking means for building construction. 3,052,449, 9–4–62, Cl. 254—89.
Long, John F.: *See*—
Patterson, William E., Long, Terry, and Beaty. 3,057,384.
Long, John F., Properties, Inc.: *See*—
Patterson, William E., and Krug. 3,059,355.
Patterson, William E., Long, Terry, and Beaty. 3,057,384.
Patterson, William E., Terry, Beaty, Kerr, and Collins. 3,030,988.
Long, John J.: *See*—
Nayhouse, Alfred, Frankert, and Long. 3,045,976.
Long, John J., to W. H. Sanders (Electronics) Ltd. Mechanism for the control of strip materials. 3,047,198, 7–31–62, Cl. 226—42.
Long, John R., to Shuford Mills, Inc. Speed control for spinning machines and the like. 3,015,204, 1–2–62, Cl. 57—98.
Long, John R., to Granite Machine Co. Apparatus for controlling the thickness of textile laps. 3,021,084, 2–13–62, Cl. 242—55.1.
Long, John V., A. R. Stetson, and J. V. Furth, to Solar Aircraft Co. Method and composition for obtaining diffused aluminum coating layers on metal articles. 3,041,206, 6–26–62, Cl. 117—131.
Long, Joseph N., to Vilter Mfg. Corp. Refrigeration compressor control system. 3,022,642, 2–27–62, Cl. 62—196.
Long, Leonard D.: *See*—
Long, John C. and L. D. 3,052,449.
Long, Louis E., to Greenlee Bros. & Co. Apparatus for making a wiring harness. 3,019,915, 2–6–62, Cl. 214—1.1.
Long Mfg. Co.: *See*—
Long, William R. 3,023,881.
Long Mfg. Co., Inc.: *See*—
Atkinson, Wallace E. 3,035,861.
Atkinson, Wallace E. 3,066,966.
Long, Marion R. Sinker. 3,019,545, 2–6–62, Cl. 43—44.89.
Long Meg Plaster & Mineral Co. Ltd., The: *See*—
McCammont, Robert G. 3,058,605.
Long, Omer M.: *See*—
Atanasoff, John V. and T. B., Beecher, Long, Tabler, Macrum, and Selzer. 3,033,366.
Long, Omer M., to Aircraft Armaments, Inc. Tractor track. 3,019,062, 1–30–62, Cl. 305—37.
Long, Paul J., Jr.: *See*—
Schmitz, William F., Griffith, and Long. 3,042,392.
Long, Paul J., Jr., to General Motors Corp. Hydraulic shock absorber with rebound cut-off. 3,038,560, 6–12–62, Cl. 188—88.
Long, Paul J., Jr., to General Motors Corp. Shock absorber with air booster spring. 3,063,701, 11–13–62. Cl. 267—64.
Long, Paul J., Jr., to General Motors Corp. Combined shock absorber and air spring unit assembly. 3,063,702, 11–13–62, Cl. 267—64.
Long, Ralph F.: *See*—
Frazelle, Jay B. 3,018,898.
Long, Ray S.: *See*—
Wagner, James E., Long, Ellis, and Grinstead. 3,030,175.
Long, Ray S., R. S. Olson, and J. P. Suris, Jr., to The Dow Chemical Co. Process for preparation of titanium dioxide. 3,067,010, 12–4–62, Cl. 23—202.
Long, Raymond L.: *See*—
Kafig, Emanuel, and Long. 3,031,930.
Long, Richard: *See*—
Cass, Raymond C., Long, and Brown. 3,032,590.
Long, Robert A., to Merck & Co., Inc. Production of vitamin B_{12}. 3,018,225, 1–23–62, Cl. 195—114.
Long, Robert B.: *See*—
McArthur, Donald S., Lucchesi, and Long. 3,055,818.
Tarmy, Barry L., and Long. 3,018,235.
Long, Robert S.: *See*—
Buell, Bennett G., and Long. 3,049,438.
Buell, Bennett G., and Long. 3,058,989.
Long, Robert S., to FMC Corp. Process of dyeing oranges. 3,044,841, 7–24–62, Cl. 99—148.
Long, Robert S., and S. M. Tsang, to American Cyanamid Co. Brightening agents from stilbene dicarboxylic acid amides. 3,036,121, 5–22–62, Cl. 260—507.
Long, Spencer W., to Armco Steel Corp. Rotary machine with removable power slip unit. 3,017,936, 1–23–62, Cl. 175—197.
Long, Stuart, to The Unjohn Co. Tablets coated with carboxymethylcellulose shellac composition. 3,043,747, 7–10–62, Cl. 167—82.
Long, Tillman P.: *See*—
Murray, John B. Posselt, and Long. 3,068,655.
Long, William R., to Long Mfg. Co. Grain elevator. 3,023,881, 3–6–62, Cl. 198—121.
Longenecker, John G., to American Machine & Foundry Co. Automatic catcher for cigarette making machine. 3,053,378, 9–11–62, Cl. 198—139.
Longenecker, John G., C. M. Arnold, and A. S. Reiss, to American Machine & Foundry Co. Welding machine. 3,068,351, 12–11–62, Cl. 219—124.
Longenecker, Levi S. Furnace back wall construction. 3,045,994, 7–24–62, Cl. 263—46.
Longert, Christian L. Process and device for the mechanical working of unfelled trees. 3,030,986, 4–24–62, Cl. 144—2.
Longfield, James E.: *See*—
Hoffenberg, David S., and Longfield. 3,025,330.
Longfield, William F., to The McKay Machine Co. Apparatus for blanking pieces from strip material. 3,028,825, 4–10–62, Cl. 113—42.
Longford, Charles G.: *See*—
Wynn, Edward D., and Longford. 3,042,954.
Longiave, Carlo, R. Castelli, and G. F. Croce, deceased (by G. Croce and T. R. Bonazzi, heirs), to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Polymerization catalysts and method of polymerizing diolefins therewith. 3,032,544, 5–1–62, Cl. 260—94.3.
Longiave, Carlo, and R. Castelli, to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Polymerization of alpha-olefines. 3,061,600, 10–30–62, Cl. 260—93.7.
Longini, Richard L.: *See*—
Chu, Ting L., and Longini. 3,058,812.
Longo, Joseph M. Lipstick case with picture retaining cap. 3,050,212, 8–21–62, Cl. 220—42.
Longree, Alex: *See*—
Gerwing, Harry, Longree, and Wollschina. 3,043,901.
Longstreet, Charles S., to The Bendix Corp. Nozzle area control for turbojet engines. 3,021,668, 2–20–62, Cl. 60—35.6.
Longstreth, Scott S., to Westinghouse Electric Corp. Welding gun. 3,048,691, 8–7–62, Cl. 219—130.
Lonn, Harold J., to General Controls Co. Sight gauge. 3,069,908, 12–25–62, Cl. 73—327.
Lonn Mfg. Co., Inc.: *See*—
Menzie, Gerald W. 3,060,956.
Lonnegren, Bruno L.: *See*—
Atkinson, William P., and Lonngren. 3,059,793.
Lonza Chemical and Electrical Works Ltd.: *See*—
Trumpler, Gottfried. 3,067,112.
Lonza Electric and Chemical Works, Ltd.: *See*—
Halbig, Paul. 3,026,306.
Halbig, Paul, and Nordmann. 3,035,884.
Pino, Piero. 3,060,228.
Voigt, Wilfried. 3,025,564.
Lonza Electric and Chemical Works Ltd., Firma: *See*—
Voigt, Wilfried, and Loch. 3,029,474.
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Loofbourow, Robert L., and W. D. Lacabanne. Sealing underground cavities. 3,064,436, 11–20–62, Cl. 61—.5.
Look, Melvin: *See*—
Cheifetz, Howard L., Look, and McLaughlin. 3,065,278.
Looman, Johannes, to Zahnradfabrik Friedrichshafen, Aktiengesellschaft. Apparatus for the dressing of profiled grinding disks for the grinding of helical involute spur gears. 3,021,829, 2–20–62, Cl. 125—11.
Loomis, Clare L., to The Carborundum Co. Packaging of sheet abrasive discs. 3,053,384. 9–11–62, Cl. 206—46.
Loomis, Donald C., to Tung-Sol Electric Inc. Ignition system. 3,032,685, 5–1–62, Cl. 315—183.
Loomis, Echo T. Cultivating tool. 3,044,560, 7–17–62, Cl. 172—175.
Loomis, Evarts G. Machines for vending paper and pencils. 3,054,528, 9–18–62, Cl. 221—19.
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Loomis, Gilbert L., Tester apparatus for oil wells or the like. 3,038,542, 6–12–62, Cl. 166—204.
Loomis, Lester L., to The Pioneer Rubber Co. Webbed article and method and apparatus for producing same. 3,023,432, 3–6–62, Cl. 9—308.
Loomis, Russell M., A. G. Kuellmar, and J. S. Lundvall, to Union Asbestos & Rubber Co. Lading separating means. 3,017,843, 1–23–62, Cl. 105—376.
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Loop, James T., to Continental Steel Corp. Web winding apparatus. 3,062,471, 11–6–62, Cl. 242—81.
Loop, Werner: *See*—
Wolf, Viktor, and Loop. 3,052,673.
Wolf, Viktor, and Loop. 3,052,674.
Wolf, Viktor, and Loop. 3,053,687.
Wolf, Viktor, and Loop. 3,052,888.
Loos, Robert A., and S. H. Johnson, to Curtiss-Wright Corp. Method and apparatus for loading and handling a radioactive source. 3,038,999, 6–12–62, Cl. 250—106.
Loosli, Stanley. Mobile conveying apparatus for piling or stacking commodities. 3,067,858, 12–11–62, Cl. 198—126.
Lopata, Ira L., to Ragen Precision Industries, Inc. Doughnut, pastry and cake filler. 3,040,935, 6–26–62, Cl. 222—185.
Lopata, Stanley L., and W. R. Keithler, to Carboline Co. Protective coatings. 3,056,684, 10–2–62, Cl. 106—14.
Lopatka, Dale R., and G. W. Fairbairn. Fluid dispensing apparatus. 3,039,654, 6–19–62, Cl. 222—23.
Lopenski, Stanley A.: *See*—
Bauer, Hugo, May, and Lopenski. 3,017,852.
Loper, Ben H., and F. S. Seichter, to American Cyanamid Co. Combustion deposit modifiers for internal combustion engines. 3,069,246. 12–18–62, Cl. 44—69.
Loper, Edward J.: *See*—
Helgeson, Virgil L., and Loper. 3,070,307.
Loper, Lincoln L., Jr., to Concrete Thermal Casings, Inc. Vented insulated pipe structures. 3,045,707, 7–24–62, Cl. 138—106.
Loper, Lyle E.: *See*—
Hobart, Leo G., and Loper. 3,017,061.

Lopez, Frank A.: *See*—
Blumenthal, Edwin I., and Lopez, 3,031,136.
Lopez, John, to Universal Corrugated Box Machinery Corp. Feeding equipment. 3,034,784, 5–15–62, Cl. 271—29.
Lopez, John P., to Universal Corrugated Box Machinery Corp. Apparatus for applying glue to box blanks. 3,062,179, 11–6–62, Cl. 118—250.
Lopez, Manuel M. Accelerator control device. 3,059,715, 10–23–62, Cl. 180—77.
Lopez, Orlando. Motor vehicle headlight construction and polarized glasses used therewith. 3,042,827, 7–3–62, Cl. 313—112.
Lopez, Peter L. Insertable and removable oil container for journal boxes. 3,062,597, 11–6–62, Cl. 308—87.
Lopinot, Harold: *See*—
Pixley, Francis V., and G. W., and Lopinot. 3,037,940.
Loporto, John J. Fluid transfer arrangement. 3,059,440, 10–23–62, Cl. 62—41.
Loposer, Thomas L., to Collins Radio Co. Automatic Morse code recognition system. 3,056,109, 9–25–62, Cl. 340—164.
Loppnow, Frank B., to Kimberly-Clark Corp. Papermaking machine. 3,018,757, 1–30–62, Cl. 118—262.
Lo Presti, Roy F.: *See*—
Arndt, Charles J., and Lo Presti. 3,038,588.
Arndt, Charles J., and Lo Presti. 3,062,360.
Lo Presti, Roy F., to Goodman Mfg. Co. Automatic belt training troughing roller assembly. 3,029,928, 4–17–62, Cl. 198—192.
Lo Presti, Roy F., to Goodman Mfg. Co. Freely suspended return roller assembly for rope side frame conveyors. 3,049,220, 8–14–62, Cl. 198—192.
Lo Presti, Roy F., to Goodman Mfg. Co. Automatic belt training idler assembly. 3,058,573, 10–16–62, Cl. 198—202.
Lo Presti, Roy F., to Goodman Mfg. Co. Level compensating troughing roller assembly for belt conveyors. 3,070,217, 12–25–62, Cl. 198—192.
Lo Presti, Roy F., to Goodman Mfg. Co. Flexible conveyor roller assembly and connector. 3,070,218, 12–25–62, Cl. 198—192.
Lorain Products Corp.: *See*—
Howald, Brian W. 3,045,170.
Merkel, Stephen L. 3,059,061.
Merkel, Stephen L. 3,065,429.
Mesenhimer, Lee O. 3,015,771.
Pohm, George H. 3,018,379.
Loral Electronics Corp.: *See*—
Brodsky, Elihu, and Levine. 3,020,402.
Issaiewitch Rebikoff, D. 3,044,655.
Rebikoff, Dimitri I. 3,063,394.
Lorang, Leo J. Bulldozer blade mount. 3,059,356, 10–23–62, Cl. 37—144.
Lorang, Pierre E., to Compagnie de Pont-A-Mousson. Control device for a molten-metal pouring ladle in a centrifugal casting machine. 3,056,179, 10–2–62, Cl. 22—79.
Lorant, George J., to General Foods Corp. Method of preservation of dehydrated food. 3,058,831, 10–16–62, Cl. 99—192.
Lorber, Kurt. Safety pin. 3,047,921, 8–7–62, Cl. 24—161.
Lorber, Kurt. Paper clip. 3,057,028, 10–9–62, Cl. 24—66.
Lorbeck, Leo C. Golf bag cover. 3,059,681, 10–23–62, Cl. 150—52.
Lord Baltimore Press, Inc., The: *See*—
Liman, Norman, and Klein. 3,062,429.
Neff, Richard F. 3,050,229.
Lord, Charles A., to United States of America, Army. Apparatus for preventing shifting of containers for freight cargoes during transportation. 3,059,886, 10–23–62, Cl. 248—119.
Lord, George W., to National Research Development Corp. Tape slitting apparatus. 3,055,249, 9–25–62, Cl. 83—501.
Lord, Harold W., to General Electric Co. Three-phase saturable reactor type ballast. 3,032,682, 5–1–62, Cl. 315—144.
Lord, John B., to Vitro Corp. of America. Piezoelectric crystal holder. 3,054,004, 9–11–62, Cl. 310—9.4.
Lord, John F. Range alert system. 3,046,546, 7–24–62, Cl. 340—7.
Lord, John G., to Shoup Toll Collecting Devices, Inc. Toll collecting machine. 3,036,684, 5–29–62, Cl. 194—9.
Lord, John G., to Shoup Toll Collecting Devices, Inc. Information storing and releasing mechanism. 3,044,048, 7–10–62, Cl. 340—213.
Lord, Lester W. Golf accessory kit. 3,062,422, 11–6–62, Cl. 224—29.
Lord Mfg. Co.: *See*—
Arnold, Gerald A., and Wallerstein. 3,034,597.
Campbell, Sherman B. 3,034,321.
Henshaw, Richard C. 3,034,444.
Jenkins, David M., and De Crease. 3,022,196.
Larsen, Peter J. 3,033,618.
Neely, Richard S. 3,028,813.
Neely, Richard S. 3,054,355.
Neely, Richard S. 3,054,375.
Painter, Giles W. 3,030,803.
Schmidt, Warren E. 3,053,980.
Thomas, David G. 3,031,034.
Lore, Frank, ¼ to A. Lipp. Quick level tripod table control system. 3,018,992, 1–30–62, Cl. 248—180.
L'Oreal: *See*—
Kalopissis, Gregoire. 3,063,908.
Loredo, Cyril J. Electrical connector. 3,046,517, 7–24–62, Cl. 339—255.
Lorenian, Zareh. Screw-type extrusion press. 3,065,502, 11–27–62, Cl. 18—12.
Lorentz, Guido M. R., to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Brüning. Adol condensation product-phenol aldehyde condensation product and method for making same. 3,063,959, 11–13–62, Cl. 260—43.
Lorentzen, Hans K., to Lorentzen Hardware Mfg. Corp. Machine for punching Venetian blind head bars. 3,043,178, 7–10–62, Cl. 83—467.
Lorentzen Hardware Mfg. Corp.: *See*—
Lorentzen, Hans K. 3,043,178.
Lorenz, Alan A., to The Bendix Corp. Motion transmission mechanisms. 3,040,582, 6–26–62, Cl. 73—386.
Lorenz, Albert, to W. C. Heraeus G.m.b.H. Apparatus for heating molten metals in a vacuum chamber. 3,019,275, 1–30–62, Cl. 13—31.
Lorenz, Albert, to W. C. Heraeus G.m.b.H. Vacuum pump with gas ballast device. 3,042,292, 7–3–62, Cl. 230—207.
Lorenz, Albert, to W. C. Heraeus, G.m.b.H. Multi-stage vacuum pump. 3,066,855, 12–4–62, Cl. 230—205.
Lorenz, Alfred E., to Victor Comptometer Corp. Drive transmitting means. 3,025,065, 3–13–62, Cl. 274—4.
Lorenz, Alfred E., to Victor Comptometer Corp. Magnetic record transducer apparatus. 3,047,672, 7–31–62, Cl. 179—100.
Lorenz, Anton: *See*—
Fletcher, Peter S. 3,033,610.
Fletcher, Peter S. 3,039,815.
Fletcher, Peter S. 3,041,105.
Fletcher, Peter S. 3,041,106.
Fletcher, Peter S. 3,043,621.
Fletcher, Peter S. 3,056,629.
Fletcher, Peter S. 3,057,657.
Fletcher, Peter S. 3,062,581.
Fletcher, Peter S. 3,065,024.
Schliephacke, Fridtjof F. 3,030,142.
Schliephacke, Fridtjof F. 3,030,143.
Schliephacke, Fridtjof F. 3,030,144.
Schliephacke, Fridtjof F. 3,033,611.
Schliephacke, Fridtjof F. 3,033,612.
Schliephacke, Fridtjof F. 3,039,814.
Schliephacke, Fridtjof F. 3,039,816.
Schliephacke, Fridtjof F. 3,044,826.
Schliephacke, Fridtjof F. 3,047,336.
Schliephacke, Fridtjof F. 3,054,039.
Schliephacke, Fridtjof F. 3,055,702.
Schliephacke, Fridtjof F. 3,055,703.
Schliephacke, Fridtjof F. 3,057,632.
Schliephacke, Fridtjof F. 3,058,775.
Schliephacke, Fridtjof F. 3,059,968.
Schliephacke, Fridtjof F. 3,059,969.
Schliephacke, Fridtjof F. 3,061,366.
Schliephacke, Fridtjof F. 3,061,367.
Schliephacke, Fridtjof F. 3,065,025.
Schliephacke, Fridtjof F. 3,065,026.
Schliephacke, Fridtjof F. 3,065,990.
Schliephacke, Fridtjof F. 3,068,047.
Schliephacke, Fridtjof F. 3,069,200.
Winick, Jack I. 3,057,658.
Lorenz, Anton, Multiple position reclining chair. 3,028,195, 4–3–62, Cl. 297—89.
Lorenz, Anton. Reclining chair. 3,047,335, 7–31–62, Cl. 297—85.
Lorenz, Anton. Multiple position reclining chair. 3,054,640, 9–18–62, Cl. 297—89.
Lorenz, Clyde. Wagon dump. 3,030,150, 4–17–62, Cl. 298—22.
Lorenz, Friedrich: *See*—
Hamprecht, Guenther, Bellmuth, and Lorenz. 3,018,930.
Lorenz, Harald: *See*—
Steinrötter, Heinz, and Lorenz. 3,039,845.
Wolfram, Arthur, Kaltenhauser, Lorenz, and Relken. 3,042,483.
Wolfram, Arthur, and Lorenz. 3,060,247.
Lorenz, John C.: *See*—
Barkdoll, Archie E., and Lorenz. 3,038,915.
Lorenz, Otto, to Daimler-Benz Aktiengesellschaft. Motor vehicle construction. 3,051,259, 8–28–62, Cl. 180—89.
Lorenz, Ray, to Sperry Rand Corp. Multivibrators with particular input circuits. 3,042,812, 7–3–62, Cl. 307—88.5.
Lorenz, Rudolf. R. Gosswald, and H. Henecka, to Bayer, Aktiengesellschaft, Farbenfabriken. 1-o-chlorophenyl-1-phenyl-3-dimethylamino-propanol-1 antitussive process and compositions. 3,031,377, 4–24–62, Cl. 167—65.
Lorenz, Walter: *See*—
Hoffmann, Helmut, Lorenz, and Schrader. 3,029,248.
Kayser, Heinrich, Lorenz, and Schrader. 3,019,250.
Lorenz, Walter, to Farbenfabriken Bayer Aktiengesellschaft. Disulfides of the phosphoric, phosphonic and phosphinic acid series and process for the production thereof. 3,035,-082, 5–15–62, Cl. 260—461.
Lorenz, Walter, and G. Schrader, to Farbenfabriken Bayer Aktiengesellschaft. Thiophosphoric acid esters and a process for their production. 3,025,316, 3–13–62, Cl. 260—461.
Lorenz, Walter, and G. Schrader, to Farbenfabriken Bayer Aktiengesellschaft. Method of combatting insects employing thiopyrophosphoric acid esters. 3,060,080, 10–23–62, Cl. 167—22.

Loretan, Edouard, to Parechoc S.A. Shock-absorbing bearing for the moving element of a small mechanism. 3,020,-155, 3–20–62, Cl. 308—159.

Loretan, Edouard, to Parechoc S.A. Shock-absorbing bearing, notably for a movable part of a small mechanism. 3,037,824, 6–5–62, Cl. 308—159.

Loretan, Edouard, to Parechoc S.A. Shock-absorbing bearing for the movable element of a small mechanism. 3,047,346, 7–31–62, Cl. 308—159.

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Loretta, Jerzy A., and C. Morris, to The English Electric Co. Ltd. Combustion chambers. 3,016,703, 1–16–62, Cl. 60—39.65.

Lorette, Nicholas B.: *See*—
Howard, William L., and Lorette. 3,024,284.

Loria, Anthony: *See*—
Weissberger, Arnold, Loria, and Salminen. 3,062,653.

Loria, Samuel F.: *See*—
Bogater, John P., Loria, and Putnam. 3,019,934.

Loria, Walter J., and J. Suhre. Automatic telegraph keyer apparatus. 3,066,184, 11–27–62, Cl. 178—17.

Lorillard, P., Co.: *See*—
Parmele, Harris B. 3,039,908.
Parmele, Harris B., Doyle, and Routh. 3,053,259.

Lorimer, John D.: *See*—
Bauer, Russell E., and Lorimer. 3,032,882.

Loring, Lewis D., and H. J. Voss, to Sinclair Refining Co. Lithium base grease containing lead oleate, sulfurized lard oil and molybdenum disulfide. 3,015,623, 1–2–62, Cl. 252—18.

Loro, Alberto, to Northern Electric Co. Ltd. Apparatus for multiple registration of a master pattern. 3,048,093, 8–7–62, Cl. 95—77.

Loro & Parisini S.p.A.: *See*—
Benozzo, Marino. 3,070,229.

Lorraine des Anciens Etablissements de Dietrich et Cie de Luneville, Societe: *See*—
Buisson, Andre. 3,039,581.

Lo Russo, Joseph P. Tube forming device. 3,045,563, 7–24–62, Cl. 93—82.

Lory, George. Area measuring instrument. 3,023,505, 3–6–62, Cl. 33—122.

Lory, John S.: *See*—
Milton, Leonard, and Lory. 3,043,937.

Lorz, Emil, and S. Bagby, to Hoffman-Taff, Inc. Process for the preparation of piperazines. 3,056,787, 10–2–62, Cl. 260—268.

Lorz, Waldemar, G. A. Mills, and H. Shalit, to Air Products and Chemicals, Inc. Selective dehydrogenation of 2,3-dimethyl butane. 3,064,062, 11–13–62, Cl. 260—680.

Los Altos Engineering Co.: *See*—
Eitel, Jay M. 3,055,459.

Losco, Ezekiel F.: *See*—
Fischer, Robert L., Losco, and Lustman. 3,025,592.

Losco, Giuseppe: *See*—
Tonelli, Pietro de P., Losco, Rossi, and Santi. 3,026,243.

Losco, Giuseppe, and C. A. Peri, to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Phosphoric esters of tertiary alcohols that have an acetylenic function, and pesticidal activity. 3,024,162, 3–6–62, Cl. 167—22.

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Losee, Ferril A., to Hughes Aircraft Co. Signal recognition circuit using pulse position modulation and pulse width discrimination. 3,020,483, 2–6–62, Cl. 328—110.

Losee, Ferril A., to Hughes Aircraft Co. Digital phase demodulation circuit. 3,028,487, 4–3–62, Cl. 250—8.

Losee, Ferril A., and A. J. Hannum, to Hughes Aircraft Co. Pulse decoding circuit. 3,027,543, 3–27–62, Cl. 340—167.

Losee, Kathryn A.: *See*—
Bernstein, Jack, and Losee. 3,052,721.
Bernstein, Jack, and Losee. 3,060,192.

Losenhausenwerk, Dusseldorfer Maschinenbau A.G.: *See*—
Melzer, Manfred. 3,048,033.
Thiele, Berthold. 3,062,009.

Losert, Miloslav, to Sdruzeni podniku textilniho strojirenstvi. Adjusting device for circular knitting machine. 3,033,012, 5–8–62, Cl. 66—1.

Losert, Miloslav, and P. Zahradka, to Sdruzeni podniku textilniho strajirenstvi. Circular knitting machine having a patterning device. 3,063,269, 11–13–62, Cl. 66—14.

Losey, William A. Method of and means for pumping various kinds of matter. 3,062,153, 11–6–62, Cl. 103—152.

Loshaek, Samuel: *See*—
Kline, Milton W., Dean, and Loshaek. 3,069,390.

Losher, Morton, to International Telephone and Telegraph Corp. Radio navigation system. 3,020,545, 2–6–62, Cl. 343—103.

Losher, Morton, to International Telephone and Telegraph Corp. Servosystem including quadrature signal gate. 3,045,156, 7–17–62, Cl. 318—28.

Losher, Morton. Low frequency complex wave analyzer. 3,045,180, 7–17–62, Cl. 324—77.

Losher, Morton, to United States of America, Navy. Potentiometer loading error compensation. 3,066,251, 11–27–62, Cl. 323—79.

Loss, Isidore R., to Ingersoll-Rand Co. Valve purging. 3,035,599, 5–22–62, Cl. 137—240.

Losse, Paul L., to The Eagle-Picher Co. Thermal pipe cover. 3,030,250, 4–17–62, Cl. 154—44.

Lossev, Alexander. Automatic film advancer for roll film cameras. 3,036,507, 5–29–62, Cl. 95—31.

Lossius, Allan R. Dust pan and combination thereof with a broom. 3,018,502, 1–30–62, Cl. 15—257.2.

Lotarski, Stepuen P., to United Shoe Machinery Corp. Machines for adhesively attaching strips to work pieces. 3,058,130, 10–16–62, Cl. 12—20.

Lotarski, Stephen P., and F. R. Speight, to United Shoe Machinery Corp. Insole rib attaching machines. 3,030,644, 4–24–62, Cl. 12—20.

Lotgering, Frederik K.: *See*—
Gorter, Evert W., Lotgering, and Blejers. 3,046,227.

Lott, Eugene W. Wheeled attachment for household chairs. 3,041,081, 6–26–62, Cl. 280—30.

Lott, William A.: *See*—
Bernstein, Jack, and Lott. 3,019,226.
Bernstein, Jack, and Lott. 3,063,995.

Lotter, William. Broiler. 3,031,948, 5–1–62, Cl. 99—390.

Lottes, Richard F.: *See*—
Ballentine, William I., Jr., and Lottes. 3,016,875.

Lottridge, Neil M., Jr., to General Motors Corp. High temperature niobium alloy. 3,046,109, 7–24–62, Cl. 75—174.

Lottridge, Neil M., Jr., and D. G. McCullough, to General Motors Corp. Ductile niobium base alloy. 3,022,163, 2–20–62, Cl. 75—174.

Lotz, Herbert A. Web tensioning device for roll-fed presses. 3,029,038, 4–10–62, Cl. 242—75.41.

Lotz, Martin A., to The Concepts Co. Shopping cart brake. 3,044,577, 7–17–62, Cl. 188—5.

Lotz, Rudolf: *See*—
Heisenberg, Erwin, Siggel, and Lotz. 3,037,050.

Lotz, Rudolf, to Vereinigte Glanzstoff-Fabriken AG. Process for the purification of crude dimethyl terephthalate. 3,037,048, 5–29–62, Cl. 260—475.

Lotz, Rudolf, to Vereinigte Glanastoff-Fabriken A.G. Process for the purification of p-xylylene dichloride. 3,070,519, 12–25–62, Cl. 202—42.

Lou, Shih-Woo. Thermos jug. 3,032,224, 5–1–62, Cl. 215—13.

Loucks, Charles M. Cleaning method for industrial systems. 3,067,070, 12–4–62, Cl. 134—27.

Loud, Edgar R., and W. H. Chamberlain, to The New York Air Brake Co. Pressure compensator for gaseous fluid meters. 3,053,082, 9–11–62, Cl. 73—198.

Louden Machinery Co., The: *See*—
Mayer, Wilbur. 3,042,761.

Louden, William C., and K. Schmidt, to General Electric Co. Intermediate pressure wall stabilized gas lamp. 3,054,922, 9–18–62, Cl. 313—184.

Loudon, Donald E.: *See*—
Schreiner, Warren C., and Loudon. 3,025,140.
Schreiner, Warren C., and Loudon. 3,026,181.

Loudon, Donald E., and W. C. Schreiner, to The M. W. Kellogg Co. Phosphorus production. 3,052,523, 9–4–62, Cl. 23—223.

Loudon, James, to Minerallac Electric Co. Scissor-clip. 3,018,080, 1–23–62, Cl. 248—228.

Loudon, John A.: *See*—
Payne, Colin, Cook, and Loudon. 3,026,600.

Loudon, Peter D. Periodic fish feeder. 3,029,790, 4–17–62, Cl. 119—51.11.

Lough, Merlin E., and D. L. Curry, to Radio Corp. of America. High voltage rectifier tube. 3,041,494, 6–26–62, Cl. 313—285.

Loughborough, William B. Tympanic type musical instrument. 3,055,253, 9–25–62, Cl. 84—411.

Loughlin, Bernard D., to Hazeltine Research, Inc. Automatic-control systems for television receivers. Re. 25,284, 11–6–62, Cl. 178—7.3.

Loughlin, Bernard D., to Hazeltine Research, Inc. Direct-current restorer system for television receivers. 3,043,909, 7–10–62, Cl. 178—7.5.

Loughlin, Raymond, ⅓ to J. F. Cain. Hinge structure for mounting a storm door. 3,065,496, 11–27–62, Cl. 16—135.

Loughran, William C. Bottle for christening ships. 3,031,-095, 4–24–62, Cl. 215—1.

Loughridge, Robert F., to Esco Elevators, Inc. Hydraulic elevator jack units. 3,065,738, 11–27–62, Cl. 121—46.

Louis Allis Co., The: *See*—
Ethier, Robert E. 3,035,193.

Louis, Arnold S.: *See*—
Coler, Myron A., Cutler, and Louis. 3,025,257.
Coler, Myron A., and Louis. 3,051,663.

Louis, Arnold S., and M. A. Coler. Monolithic electrode-separator structure for electrochemical cells. 3,023,261, 2–27–62, Cl. 136—19.

Louis, Gerard A. Speed variators. 3,066,544, 12–4–62, Cl. 74—200.

Louis, John R.: *See*—
Hornfeck, Anthony J., Koppel, and Louis. 3,015,768.

Louis, Joseph, to Societe Alsacienne de Reglage Thermique "Sart." S.a.r.l. Automatically controlling electrical regulator system of temperature, pressure or moisture. 3,067,-410, 12–4–62, Cl. 340—213.

Louis, Robert A.: *See*—
Hibshman, Henry J., Louis, and Wagner. 3,061,975.
Louis, Robert A., and I. F. Wagner, to Esso Research and Engineering Co. Method for growing crops in semi-arid regions. 3,061,974. 11–6–62. Cl. 47—9.
Louisell, William H.: *See*—
Cook, John S., and Louisell. 3,056,092.
Louisville Cap Corp.: *See*—
Hanna, Milton M., and Lipschutz. 3,025,529.
Lipschutz, Frank K. 3,039,113.
Lounsberry, Ernest D., and B. E. Wendling, to International Business Machines Corp. High speed marking apparatus. 3,015,263. 1–2–62. Cl. 101—19.
Lounsbury, Donald H.: *See*—
Greer, Fred W., and Lounsbury. 3,027,728.
Hill, William, and Lounsbury. 3,045,640.
Loup, Ronald L., to Double A Products Co. Valve port arrangement. 3,018,796. 1–30–62. Cl. 137—625.12.
Loup, Ronald L., to Double A Products Co. Hydraulic power unit. 3,036,433. 5–29–62. Cl. 60—52.
Lourie, Norman M.: *See*—
Reach, Roy W., Jr., Johnson, and Lourie. 3,064,140.
Lourie, Norman M., and K. E. Perry, to Minneapolis-Honeywell Regulator Co. Information storage apparatus using a recirculating line. 3,016,522. 1–9–62. Cl. 340—174.1.
Louthan, Chester F., to General Motors Corp. Apparatus for balancing spin tubs. 3,044,303. 7–17–62. Cl. 73—460.
Louthan, George R., to Sears, Roebuck and Co. Barbecue brazier. 3,062,128. 11–6–62. Cl. 99—446.
Louthan, Guilford W.: *See*—
Gibbens, Edmond E., and Louthan. 3,037,502.
Louthan, Rector P.: *See*—
Goodhue, Lyle D., Cantrel, and Louthan. 3,067,093.
Goodhue, Lyle D., Louthan, and Cantrel. 3,023,142.
Goodhue, Lyle D., Louthan, and Stansbury. 3,060,081.
Mahan, John E., and Louthan. 3,019,267.
Louthan, Rector P., to Phillips Petroleum Co. Unsaturated sulfides. 3,031,391. 4–24–62. Cl. 204—158.
Louthan, Rector P., to Phillips Petroleum Co. Polymers of dimercaptobicyclo [2.2.1] heptanes and sulfur. 3,037,967, 6–5–62. Cl. 260—79.
Louthan, Rector P., to Phillips Petroleum Co. 3-chloropropyl-, and 3-chloro-2-methylpropyl octyl sulfides and corresponding sulfoxides and as new compounds 3-chloropropyl-, and 3-chloro-2-methylpropyl octyl sulfoxides. 3,038,944. 6–12–62. Cl. 260—607.
Louthan, Rector P., to Phillips Petroleum Co. Preparation of organic sulfur compounds. 3,050,452. 8–21–62. Cl. 204—162.
Louton, James C., Jr., and C. H. Schamel, to General Motors Corp. Vehicle seat. 3,043,551. 7–10–62. Cl. 248—404.
Louton, James C., Jr., and C. S. Semar, to General Motors Corp. Speed reducing gearing. 3,052,138, 9–4–62, Cl. 74—805.
Lovberg, Ralph H., and L. C. Burkhardt, to United States of America, Atomic Energy Commission. Plasma device utilizing self-pinching of plasma current and magnetic field. 3,047,480. 7–31–62. Cl. 204—154.2
Love, Edgar L., to Koiled Kords, Inc. Retractile cord and method of making same. 3,068,531, 12–18–62, Cl. 18—56.
Love, Erby L., Pistol bow. 3,050,046. 8–21–62. Cl. 124—23.
Love, Harold N., to Ideal Roller and Mfg. Co. Hydraulic accumulator. 3,067,776, 12–11–62, Cl. 138—30.
Love, Mahlon L., to Deere & Co. Transmission control mechanism. 3,049,022. 8–14–62. Cl. 74—475.
Love, Phil P., to The Glacier Metal Co. Ltd. Valve apparatus for controlling an oil supply to a plain bearing. 3,029,111, 4–10–62. Cl. 308—9
Love, Phil P., to The Glacier Metal Co. Ltd. Lubrication of plain bearings in machinery subject to cyclic loading. 3,033,313, 5–8–62, Cl. 184—6.
Love, Ranie H.: *See*—
Koch, Fred C., Veazey, Gibbs, and Love. 3,048,438.
Love, Richard R., Scoop attachement for fork lift trucks. 3,032,220. 5–1–62. Cl. 214—620.
Love, Robert F., to FMC Corp. Method for controlling underground water. 3,026,096, 3–20–62, Cl. 262—1.
Love, Robert G.: *See*—
Copland, George V., and Love. 3,039,310.
Love, Robert M., R. V. Comeaux, E. C. Winegartner, H. G. Cornell, and W. K. Lewis, to Humble Oil & Refining Co. Heating of water and mining of sulphur therewith. 3,041,-274. 6–26–62. Cl. 210—56.
Love, Robert W.: *See*—
Casler, Adrien F., and Love. 3,024,905.
Love, Robert W., and M. Baranovic, to General Electric Co. Apparatus for reshaping cylindrical glass tubes. 3,066,-507. 12–4–62. Cl. 65—244.
Love, Wesley: *See*—
Jones, Edward M., and Love. 3,023,657.
Loveall, George A., Jr. Combination sensing means and multistage vibrating valve mechanism. 3,033,299, 5–8–62, Cl. 177—122.
Lovecky, Albert J., to Bell Telephone Laboratories, Inc. Wire unwrapping tool. 3,019,517, 2–6–62, Cl. 29—203.
Loveday, Paul E.: *See*—
Starnes, Jesse B., Loveday, and Carney. 3,037,360.
Loveday, Paul E., to Union Carbide Corp. Refrigerated container for liquefied gases. 3,030,780, 4–24–62 Cl. 62—54.
Lovegrove, Henry J., to Sangamo Electric Co. Electric heating control devices. 3,041,438, 6–26–62, Cl. 219—20.
Lovegrove, Henry J., to Daystrom, Inc. Electric control, detection or measuring system. 3,068,408, 12–11–62, Cl. 324—99.
Lovegrove, Henry J., and H. F. Smith, to Daystrom, Inc. Electric control, detection or measuring system. 3,023,-621, 3–6–62, Cl. 73—359.
Lovejoy, Charles K.: *See*—
Bogle, Kenneth H., and Lovejoy. 3,017,035.
Lovejoy, Charles K., to Scripto, Inc. Retractable ball point pen. 3,032,012, 5–1–62, Cl. 120—42.03.
Lovejoy, Elwyn R., to E. I. du Pont de Nemours and Co. Metal catalyzed pyrolysis of fluoromethanes. 3,016,405, 1–9–62. Cl. 260—648.
Lovejoy Flexible Coupling Co.: *See*—
Fermier, Rex M. A. 3,019,622.
Lovejoy, Paul A. Banner hanging implement. 3,032,362, 5–1–61, Cl. 294—19.
Lovejoy, Rex E., to Computer Measurements Corp. Digital analog converter. 3,025,510, 3–13–62, Cl. 340—347.
Loveland, Monte H., to The Bendix Corp. Dip-soldering method and apparatus. 3,056,015, 9–25–62, Cl. 219—85.
Loveland, Junior W., to Sun Oil Co. Electrolytic production of acyclic carboxylic acids from hydrocarbons. 3,032,489, 5–1–62, Cl. 204—73.
Loveland, Malcolm W.: *See*—
Harrer, Theodore M., Loveland, and Blakewell. 3,055,408.
Loveland, Malcolm W., and B. E. Cooper, to Atlas Pacific Engineering Co. Rotary type knife pear peeler. 3,058,502, 10–16–62, Cl. 146—43.
Loveland, Malcolm W., T. M. Harrer, and R. F. Blakewell, to Atlas Pacific Engineering Co. Device for feeding peaches and the like. 3,058,616, 10–16–62, Cl. 221—175.
Loveland, Malcolm W., and R. F. Blakewell, to Atlas Pacific Engineering Co. Fruit feeding device. 3,058,618, 10–16–62 Cl. 221—238.
Loveland, Roger S., and N. J. Sidaris, to Minneapolis-Honeywell Regulator Co. Safety pilots. 3,056,450, 10–2–62, Cl. 158—123.
Loveless, Harold K., to E. I. du Pont de Nemours and Co. Method for producing pipe. 3,057,013, 10–9–62, Cl. 18—55.
Loveless, Loyal E.: *See*—
Symes, William F., and Loveless. 3,061,423.
Loveless, Vernon O., and R. C. Staats, to Minneapolis-Honeywell Regulator Co. Accelerometers. 3,029,644, 4–17–62, Cl. 73—490.
Lovell, Calvin, and K. J. Rorig, to G. D. Searle & Co. N-[phenyl(4-pyridyl)methyl] amides and process. 3,025,-302. 3–13–62, Cl. 260—295.
Lovell, David C. L.: *See*—
Glover, Denys T., and Lovell. 3,019,423.
Lovell, Gilbert W. Pneumatically operated pie cutter. 3,027,839, 4–3–62, Cl. 30—114.
Lovell, Jack: *See*—
Hamilton, Wallace, and Lovell. 3,016,623.
Lovell, Jack. Toy vehicle. 3,048,124, 8–7–62, Cl. 104—149.
Lovell, John A.: *See*—
Snyder, Carl E., Seeger, Fauser, Finelli, and Lovell. 3,043,807.
Lovell Mfg. Co.: *See*—
Smith, Ellwood H. 3,039,285.
Lovell, Ralph E.: *See*—
Allman, Carroll M., and Lovell. 3,066,296.
Lovell, Walter V. Surgical electromagnet. 3,054,026, 9–11–62, Cl. 317—123.
Lovella, Loretta A., to Stamford Wall Paper Co., Inc. Folding display racks. 3,054,508. 9–18–62, Cl. 211—45.
Lovelock, James E., to National Research Development Corp. Method and apparatus for detection of gases and vapors. 3,046,396, 7–24–62. Cl. 250—43.5.
Lovely, John W.: *See*—
Grobey, Paul A., Lovely, and Thayer. 3,023,552.
Loven, Carl, to The Parker Pen Co. Automatic assembly apparatus. 3,052,969, 9–11–62, Cl. 29—211.
Lovens Kemiske Fabrik Ved A. Kongstol: *See*—
Godtfresden, Wagn, O., and Lilsberg. 3,047,566.
Lover, Seth E., and T. M. McCarty, to Gibson, Inc. Metallic stringed musical instruments. 3,069,954, 12–25–62, Cl. 84—1.14.
Lovercheck, Charles L. Aircraft clock. 3,030,765, 4–24–62, Cl. 58—152.
Lovercheck, Charles L. Appliance door. 3,068,875, 12–18–62. Cl. 134—58.
Lovern, Benn T.: *See*—
Slocombe, Cyprian M., and Lovern. 3,026,444.
Loverude, Thomas H.: *See*—
Wilke, Milton E., and Loverude. 3,061,659.
Lovett, Joe B.: *See*—
Hogden, John D., and Lovett. 3,067,651.
Lovett, John R., to Esso Research and Engineering Co. Polymerization of allyl amines with N_2F_4. 3,062,798. 11–6–62. Cl. 260—89.7.
Lovett, John R., and J. M. Kelley, Jr., to Esso Research and Engineering Co. Melt index and brittleness of polypropylene. 3,040,014. 6–19–62, Cl. 260—93.7.
Lovett, William E.: *See*—
Neblett, Richard F., and Lovett. 3,054,666.
Lovett, William E., and H. L. Bennett, to Inland Container Corp. Box set-up apparatus. 3,056,338, 10–2–62, Cl. 93—53.
Lovett, William E., and F. C. Gunderloy, Jr., to Esso Research and Engineering Co. Combustion chamber deposit modifiers for leaded gasolines. 3,070,430, 12–25–62, Cl. 44—69.

Lovett, William G.: *See*—
Dann, John R., Chiesa, and Lovett. 3,038,805.
Lovett, William G., P. P. Chiesa, and J. R. Dann, to Eastman Kodak Co. Internal amide, nonpolymeric thioether sensitizers for photographic emulsions. 3,057,724, 10–9–62, Cl. 96—108.
Lovette, Edd H., 25% to H. O. Teer, Jr., and 25% to M. T. Barringer. Hopper gate apparatus and control. 3,042,261, 7–3–62, Cl. 222—70.
Lovick, Robert C., to Eastman Kodak Co. Method of metering liquid and apparatus therefor. 3,062,681, 11–6–62, Cl. 117—111.
Lo Vico, Salvatore A. Utility bag with removable lining. 3,041,638, 7–3–62, Cl. 5—344.
Lo Vico, Salvatore A. Beach bag. 3,052,895, 9–11–62, Cl. 5—344.
Lovik, Melvin A.: *See*—
Reed, James C. 3,018,924.
Lovin, Robert J.: *See*—
Sturrock, Murray G., Cline, Robinson, and Lovin. 3,016,401.
Lovingham, Joseph J., to Thiokol Chemical Corp. Reaction motor thrust chamber. 3,016,695, 1–16–62, Cl. 60—35.6.
Lovins, Gerald H., to Curtiss-Wright Corp. Means for pressure-vibration joining of metal. 3,029,666, 4–17–62, Cl. 78—82.
Lovoie Laboratories, Inc.: *See*—
Sears, Kay G., Logue, and Koulomzin. 3,065,414.
Lovret, Frederick I., to L & M Space Research and Electronics Corp. Shunting device. 3,026,392, 3–20–62, Cl. 200—118.
Lovsey, George V. Apparatus for treating the finish of automobiles. 3,037,223, 6–5–62, Cl. 15—21.
Low, Emery M.: *See*—
Ferguson, Ronald W., and Low. 3,025,787.
Low, Frank D., to General Electric Co. Dispensing mechanism. 3,021,863, 2–20–62, Cl. 137—209.
Low, James. Fishhook with retractible bill portion. 3,027,677, 4–3–62, Cl. 43—44.82.
Low, Russell C., to Raytheon Co. Clamp holders. 3,017,598, 1–16–62, Cl. 339—75.
Lowden, George. Securing bolt. 3,019,887, 2–6–62, Cl. 198—151.
Lowdermilk, Ford R., and J. A. MacKay, deceased (by M. J. MacKay, coexecutrix, and Fidelity-Philadelphia Trust Co., coexecutor), to Pennsalt Chemical Corp. Electrode clamp and assembly. 3,069,345, 12–18–62, Cl. 204—286.
Lowe, Alexander K., and R. B. Grass, to Crown Zellerbach Corp. Press and bander for paper bags or the like. 3,030,750, 4–24–62, Cl. 53—124.
Lowe, Charles B.: *See*—
Lowe, Charles E. 3,034,310.
Lowe, Charles E. Ice making refrigeration apparatus and the like. 3,026,686, 3–27–62, Cl. 62—149.
Lowe, Charles E., ½ to C. B. Lowe. Heat pump type ice-making machine. 3,034,310, 5–15–62, Cl. 62—197.
Lowe, Charles E., Sr.: *See*—
Hillberg, Robert L. 3,060,810.
Lowe, Charles S., to Union Carbide Corp. Impregnated carbonaceous electrode and method of making the same. 3,046,216, 7–24–62, Cl. 204—294.
Lowe, Chester A.: *See*—
Clingman, Paul E., and Lowe. 3,016,567.
Lowe, Edison, E. L. Durkee, and W. E. Hamilton, to United States of America, Agriculture. Process for coating food products. 3,046,143, 7–24–62, Cl. 99—168.
Lowe, Edwin C., to Norton Co. Silicon carbide crystals and processes and furnaces for making them. 3,025,192, 3–13–62, Cl. 148—33.
Lowe, Edwin C., to Norton Co. Process for producing titanium nitride. 3,030,888, 5–29–62, Cl. 23—191.
Lowe, Edwin L., and J. T. Duzan, to United States of America. Submarine mine control system. 3,033,113, 5–8–62, Cl. 102—11.
Lowe, Harry: *See*—
Majendie, Alastair M. A., Chorley, and Lowe. 3,057,322.
Lowe, Jack M.: *See*—
Smith, Reginald S. J., and Lowe. 3,024,828.
Lowe, Jack M., to Dunlop Rubber Co. Ltd. Apparatus for the manufacture of pneumatic tyres. 3,044,533, 7–17–62, Cl. 156—401.
Lowe, Joe, Corp.: *See*—
Roth, Ernest J., Dale, and Schwertl. 3,034,455.
Schwertl, Edward. 3,061,072.
Lowe, John J., and G. D. Thomas, to Burlington Industries, Inc. Package for dispensing ribbon. 3,051,306, 8–28–62, Cl. 206—52.
Lowe, John M., to John Morrell & Co. Bacon package and loader for same. 3,048,319, 8–7–62, Cl. 229—20.
Lowe, Lawrence E. Safety device for highchair. 3,037,813, 6–5–62, Cl. 297—390.
Lowe Lester F.: *See*—
Jackson, Walter B., Johanson, and Lowe. 3,066,342.
Lowe Paper Co.: *See*—
Gallino Robert, and Thompson. 3,015,581.
Rice, John C. 3,028,258.
Lowe, Sahn K. Lawn and garden tool. 3,061,270, 10–30–62, Cl. 254—132.
Lowe, Walter M., and F. Squirrel, to Thermo-Technical Development Ltd. Sealing valves for gas control. 3,035,810, 5–22–62, Cl. 251—298.
Lowe, Warren: *See*—
Stewart, William T., Stuart, and Lowe. 3,046,260.
Stewart, William T., Stuart, and Lowe. 3,048,544.
Lowe, Warren, F. W. Kavangh, F. A. Stuart, and W. T. Stewart, to California Research Corp. Amido polyglycols. 3,037,050, 5–29–62, Cl. 260—561.
Lowe, Weigle F. Rolling massage device. 3,060,928, 10–30–62, Cl. 128—57.
Lowe, Zackie S.: *See*—
Anderson, Harvey L., Jr., and Lowe. 3,022,910.
Lowell, Arthur L., J. J. Latimer, and A. J. Buselli, to Air Reduction Co., Inc. Formation of bead polymers in presence
Lowell, Benjamin W.: *See*—
Hammes, Josef J. 3,023,830.
Lowell, Bernard. Fire retardant creosote composition. 3,031,374, 4–24–62, Cl. 167—38.7.
Lowell Counter Co.: *See*—
Herlihy, William F. 3,017,645.
Lowell, John O., and O. A. Carlson, to Trim Dies, Inc. Marker die. 3,063,371, 11–13–62, Cl. 101—368.
Lowell, Rudolph L.: *See*—
Barricks, Joseph B. 3,040,932.
Monroe, Roger F., Lowes, Foster, and Oakes. 3,049,496.
Lowen, Stanley. Bottle closure. 3,053,407, 9–11–62, Cl. 215—43.
Lowenborg, John G. F., to Atlas Copco Aktiebolag. Pawl and ratchet mechanisms, particularly for pneumatic percussion tools. 3,029,672, 4–17–62, Cl. 81—52.3.
Lower, Ralph C., and J. Perez, to Chrysler Corp. Refrigeration system with means to prevent overloading. 3,044,273, 7–17–62, Cl. 62—196.
Lowery, Beatryce S.: *See*—
Brown, Jennie M., and Lowery. 3,059,377.
Lowery, Donald G., to The Frank G. Hough Co. Bucket construction for a tractor loader. 3,033,395, 5–8–62, Cl. 214—140.
Lowery, Herod H. Wiper for plunger pumps. 3,063,764, 11–13–62, Cl. 309—54.
Lowery, James A.: *See*—
Leeds, Lewis J., Lowery, and Krieger. 3,054,810.
Shay, Anthony J., Lowery, Bohonos, and Backus. 3,057,779.
Lowery, Peter A., to Chemring Ltd. Inflatable rubber dinghies. 3,019,457, 2–6–62, Cl. 9—11.
Lowes, Fred J.: *See*—
of catalyst containing dicyclopentadienyliron. 3,049,522, 8–14–62, Cl. 260—89.1.
Lowey, Francis J. Vehicle brake. 3,053,350, 9–11–62, Cl. 188—218.
Lowitz, Gabriel E.: *See*—
Court, Patrick R. J., Akrell, and Lowitz. 3,041,389.
Lowrance, John L., to The Bendix Corp. Control apparatus. 3,032,703, 5–1–62, Cl. 323—64.
Lowrey, George A., and P. H. Glaze, ½ to said Lowrey, and ½ to J. W. Turner. Well packer. 3,062,292, 11–6–62, Cl. 166—123.
Lowrey, Girard R., Jr.: *See*—
Jones, Roger C., and Lowrey. 3,067,420.
Lowrey, Lilliam D. Game apparatus. 3,023,007, 2–27–62, Cl. 273—161.
Lowrey Oil Tools, Inc.: *See*—
Bonner, James W. 3,054,451.
Lowrey Organ Co., The: *See*—
Anderson, Walter J. 3,068,735.
Lowrie, George H. Bale hook. 3,055,693, 9–25–62, Cl. 294—26.
Lowrie, Harman S., to G. D. Searle & Co. N-hydroxyalkylpiperidinoalkyl-2-chloro-10-phenothiazinecarboxamides and process. 3,025,291, 3–13–62, Cl. 260—243.
Lowrie, Harman S., to G. D. Searle & Co. N-(dihydroxypyridazinyl)aniline and derivatives thereof. 3,037,022, 5–29–62, Cl. 260—250.
Lowry, Harley M. Trotline hook controller. 3,060,622, 10–30–62. Cl. 43—54.5.
Lowry, Herman D., to Lowry Hydraulic Co. Deep well pumps. 3,023,707, 3–6–62, Cl. 103—46.
Lowry, Herman D., to Lowry Hydraulic Co. Positive pressure pump. 3,050,009, 8–21–62, Cl. 103—125.
Lowry, Hugh R., to General Electric Co. Inverter circuit. 3,047,789, 7–31–62, Cl. 321—18.
Lowry Hydraulic Co.: *See*—
Lowry, Herman D. 3,023,707.
Lowry, Herman D. 3,050,009.
Lowry, John A., to The Jeffrey Mfg. Co. Conveying apparatus. 3,021,957, 2–20–62, Cl. 210—526.
Lowry, John R., to General Foods Corp. Polysaccharide extraction by irradiation. 3,034,974, 5–15–62, Cl. 204—158.
Lowry, John R., to General Foods Corp. Preparation of gelatin from collagenous material. 3,046,210, 7–24–62, Cl. 204—158.
Lowry, John R., to General Foods Corp. Method of extracting gelatin from collagen-bearing stock by irradiation and liming. 3,046,270, 7–24–62, Cl. 260—118.
Lowry, John W., W. S. Peterson, and T. W. F. Foster, to Kaiser Aluminum & Chemical Corp. Reclamation of metallic values from aluminous dross. 3,043,678, 7–10–62, Cl. 75—24.
Lowry, Robert D.: *See*—
Dreyfus, Robert L., Harrison, and Lowry. 3,022,614.
Lowry, Terrell N.: *See*—
Cirone, Frank P., Harr, and Lowry. 3,036,161.
Gotthardt, Manfred R., and Lowry. 3,047,668.

Lowry, Terrell N., to Bell Telephone Laboratories, Inc. Electrically controlled switching device. 3,037,085, 5–29–62, Cl. 179—27.54.
Lowry, Terrell N., to Bell Telephone Laboratories, Inc. Switching device. 3,070,677, 12–25–62, Cl. 200—87.
Lowther, Alexander C. Means for filing and handling phonograph records. 3,042,469, 7–3–62, Cl. 312—13.
Lowther, Dwight R., and H. R. Wright, to Norton Co. Round disc with non-circular back-up pad. 3,054,232, 9–18–62, Cl. 51—195.
Lowther, Franklin D., Jr. Self-inflating life preserver. 3,032,788, 5–8–62, Cl. 9—319.
Lowther, Wilfred W., to Navo Industrial Corp. Air cleaning device and method. 3,043,959, 8–14–62, Cl. 55—320.
Lowy, Edward R., to Lowy & Mund, Inc. Handbag. 3,016,939, 1–16–62, Cl. 150—33.
Lowy, Edward R., to Lowy & Mund, Inc. Combination personal receptacle. 3,070,141, 12–25–62, Cl. 150—35.
Lowy & Mund, Inc.: *See*—
Lowy, Edward R. 3,016,939.
Lowy, Edward R. 3,070,141.
Loy, Fernand: *See*—
Cosse, Claude, and Loy. 3,046,892.
Loy, Fernand, to North American Philips Co., Inc. Device for measuring and detecting radiations. 3,031,576, 4–24–62, Cl. 250—83.3.
Loy, Samuel E., III: *See*—
Corley, Charles B., Jr., and Loy. 3,032,111.
Liles, Joseph R., Jr., Corley, and Loy. 3,051,237.
McStravick, Peter R., and Loy. 3,022,822.
Loy, Samuel E., III, and W. C. Lindsey, to Jersey Production Research Co. Gas lift mandrel for use in wells. 3,059,700, 10–23–62, Cl. 166—224.
Loy, Samuel E., III, P. R. McStravick, and W. C. Lindsey, to Jersey Production Research Co. Device for pumping tools into wells. 3,070,167, 12–25–62, Cl. 166—153.
Loy, Walter H., and I. A. Goetsch, to Bell & Gossett Co. Air eliminator for rotary mechanical seals in fluid pumps. 3,070,028, 12–25–62, Cl. 103—111.
Loyd, Samuel A.: *See*—
Fuller, James L., and Loyd. 3,056,506.
Loyd, Samuel A., Jr., to Acme Visible Records, Inc. Selective position control. 3,062,997. 11–6–62, Cl. 318—467.
Loynd, James, to Kimberly-Clark Corp. Papermaking machine. 3,044,542, 7–17–62, Cl. 162—273.
Lozier, Gerald S., to Radio Corp. of America. Primary cells. 3,060,255, 10–23–62, Cl. 136—100.
Lozier, John C., to Bell Telephone Laboratories, Inc. Torpedo steering system. 3,054,370, 9–18–62, Cl. 114—23.
Lozier, Raymond: *See*—
Hughes, Jesse E., Layton, Lozier, and Nolan. 3,047,440.
Lozier, Richard W.: *See*—
Anderson, W. Carl, and Lozier. 3,062,308.
Lozinski, Ezra, to Charles E. Frosst & Co. Long-acting hormone preparations. 3,051,624, 8–28–62, Cl. 167—74.
Lubas, Joseph P.: *See*—
Happe, Reynold, and Lubas. 3,016,659.
Lubas, Joseph P., to Diehl Mfg. Co. Belt tension and tracking adjustment device for portable belt sanders. 3,029,568, 4–17–62, Cl. 51—170.
Lübbe, Helmut: ***See***—
Burger, Walter, and Lübbe. 3,065,114.
Lubben, Robert A.: *See*—
Howard, Herbert H., Smith, and Lubben. 3,062,377.
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Fast, Clarence R., Howard, and Lubinski. 3,050,119.
Lubinski, Arthur, to Pan American Petroleum Corp. Well surveying apparatus. 3,065,633, 11–27–62, Cl. 73—151.
Lubkay, Conrad, Jr.: *See*—
Lyttle, Sidney, and Lubkay. 3,053,164.
Lubkin, Samuel: *See*—
Auerbach, Albert A., Berezin, Lubkin and Shaw. 3,017,–610.
Lubkin, Yale J., to Cutler-Hammer, Inc. Non-linear device test apparatus. 3,054,055, 9–11–62, Cl. 324—158.
Lubmann, Elmont C. Self-closing gate. 3,024,549, 3–13–62, Cl. 39—5.
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Luboshez, Benjamin E., to Eastman Kodak Co. Fluid treating device for sheet or strip materials. 3,057,282, 10–9–62, Cl. 95—89.
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Greenberg, Harry, and Lubowitz. 3,053,620.
Lubrilite Corp., The: *See*—
Bloom, Leslie C. 3,035,738.
Lubrizol Corp., The: *See*—
Asseff, Peter A. 3,033,789.
Butler, Thomas A., and Rhodes. 3,070,546.
Craig, Willis G. 3,053,865.
Goldsmith, Fred C. 3,029,268.
Le Suer, William M. 3,033,890.
Le Suer, William M., 3,049,531.
McMillen, Richard L., Goldsmith, and Gantz. 3,027,325.
Meinhardt, Norman A. 3,065,273.
Miller, Clark O. 3,020,271.
Miller, Clark O. 3,070,581.
Vogel, Paul W., Asseff, and Le Suer. 3,033,786.
Lubszynski, Hans G.: *See*—
Cassman, Harry, and Lubszynski. 3,027,478.
Lubszynski, Hans G., to Electric & Musical Industries Ltd. Electron discharge devices employing photoconductive target electrodes. 3,015,746, 1–2–62, Cl. 313—65.
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Lucas, Clyde M.: *See*—
Barrick, James E., and Lucas. 3,054,027.
Lucas, Don D. Portable barbecue. 3,067,734, 12–11–62, Cl. 126—30.
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Lucas, Joseph, (Industries) Ltd.: *See*—
Basford, Kenneth A., and Bottoms. 3,056,454.
Bell, Robert H. 3,038,410.
Bell, Robert H. 3,060,859.
Bell, Robert H., and Campbell. 3,060,998.
Gascoigne, Denis, and Watkins. 3,026,048.
Gold, Richard L. 3,038,331.
Harbidge, John. 3,060,953.
Haworth, Lionel, Basford, Smith, and Bottoms. 3,067,–628.
Shinner, John E. T. 3,058,354.
Steele, Henry J. 3,058,755.
Tolley, Noel P. 3,058,297.
Warne, Eugene H. 3,043,583.
Young, John M. C. 3,065,765.
Lucas, Joseph M., to The United States Stoneware Co. Chlorine cell. 3,033,772, 5–8–62, Cl. 204—278.
Lucas, Malcolm B., to The Procter & Gamble Co. Detergent dispenser for automatic clothes washing machines. 3,044,–667, 7–17–62, Cl. 222—454.
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Lucas, Robert A.: *See*—
MacPhillamy, Harold B., and Lucas. 3,036,061.
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Lucas, Robert A., to Ciba Corp. Methyl reserpate-18-desoxy-18-phosphates and related compounds. 3,036,079, 5–22–62, Cl. 260—287.
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Lucas, Robert T.: *See*—
Young, James A., and Lucas. 3,069,831.

Lucas, Samuel W. Apparatus for throwing discrete substances. 3,039,594, 6–19–62, Cl. 198—128.
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Lucchesi, Peter J.: *See*—
Heath, Carl E., and Lucchesi. 3,046,208.
McArthur, Donald S., Lucchesi, and Long. 3,055,818.
Read, Chester L., and Lucchesi. 3,043,759.
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Lucchetti, Luciano: *See*—
Bonvicini, Alberto, and Lucchetti. 3,043,787.
Lucci, Mario. Combustible fume detector. 3,041,590, 6–26–62, Cl. 340—237.
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Luce, Roy L., to Herbert Simpson Corp. Sand blast gun. 3,055,149, 9–25–62, Cl. 51—11.
Luce, Stewart B.: *See*—
Young, Harland H., and Luce. 3,070,483.
Lucerne Products, Inc.: *See*—
Matthews Benjamin H. 3,062,453.
Lucero, Thomas W.: *See*—
Duncan, Garnett C., Lee, Lucero, and Redding. 3,040,629.
Luchi, Vinicio. Device for everting tubular fabric. 3,063,275, 11–13–62, Cl. 66—149.
Luchsinger, Charles R., to Norcross, Inc. Display device. 3,035,363, 5–22–62, Cl. 40—124.1.
Lucht, Wilbert A.: *See*—
Grimes, John J., Jr., and Lucht. 3,035,403.
Lucia, Carroll J. Transmission test machine. 3,060,730, 10–30–62, Cl. 73—118.
Luciani, Luciano: *See*—
Greco, Guido, Luciani, and Soldano. 3,067,177.
Lucidi, Italo C. Method of decorticating sesame seeds. 3,054,433, 9–18–62, Cl. 146—221.9.
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Lucien, Rene, to Rescherches Etudes Production R.E.P., Societe a Responsabilite Limitee. Aircraft landing gear with tandem wheels. 3,032,297, 5–1–62, Cl. 244—102.
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Lucien, Rene, to Societe a Responsabilite Limitee Recherches Etudes Production R.E.P. Fluid distributor device. 3,047,018, 7–31–62, Cl. 137—625.25.
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Lucien, René, to Recherches Etudes Production R.E.P. Combined jack and shock-absorber device for aircraft landing gear. 3,054,582, 9–18–62, Cl. 244—104.
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Lucifer S.A.: *See*—
Stampfli, Harald. 3,016,065.
Luck, Friedrich, to Borsig Aktiengesellschaft and Wankel G.m.b.H. Rotary piston engine with rotary pistons arranged one within the other. 3,029,793, 4–17–62, Cl. 121—70.
Luck, James R., and A. M. Severson, to Minneapolis-Honeywell Regulator Co. Ozone indicator. 3,053,076, 9–11–62, Cl. 73—23.
Luck, Wolfhard: *See*—
Zorn, Bruno, Luck, and Mauthe. 3,053,697.
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Lucke, Josef: *See*—
Lodige, Wilhelm and F., and Lucke. 3,018,059.
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Lucke, William H. Magnetic core binary counter. 3,030,521, 4–17–62, Cl. 307—88.
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Luckenbaugh, Raymond W.: *See*—
Barthel, Eric, Jr., Luckenbaugh, and Nelson. 3,024,269.
Gobeil, Richard J., Johnson, and Luckenbaugh. 3,020,145.
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Luckenbaugh, Raymond W., to E. I. du Pont de Nemours and Co. Herbicidal composition and method employing a mixture of ethyl N,N-dipropyl-thiolcarbamate and a herbicidal s-triazine. 3,037,853, 6–5–62, Cl. 71—2.5.
Luckert, Hans: *See*—
Griehl, Wolfgang, and Luckert. 3,036,989.
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Griehl, Wolfgang, and Lückert. 3,061,588.
Luckett, Lorraine P.: *See*—
Luckett, Alfred P., and L. P. 3,055,561.
Luckey, George W., and W. West, to Eastman Kodak Co. Photopolymerization of olefinically-unsaturated monomers by silver halides. 3,038,800, 6–12–62, Cl. 96—35.
Lucky, Maurice C., and R. C. Brooks, to Cameron Iron Works, Inc. Valve apparatus. 3,036,807, 5–29–62, Cl. 251—28.
Lucy, Robert F.: *See*—
De Foy, Martin L., II, Pattan, and Lucy. 3,019,431.
Ludeman, Clifford G., to Texaco Development Corp. Method for removing calcium sulfate from underground storage cavities in salt formations. 3,024,612, 3–13–62, Cl. 61—.5.
Ludemann, Joseph, and H. Heilmann, to Licentia Patent-Verwaltungs- G.m.b.H. Stator for A.C. motor. 3,056,896, 10–2–62, Cl. 310—258.
Ludewig, Maximilian, and F. Stumpf, to Ernst Leitz, G.m.b.H. Focussing telescope objective. 3,062,100, 11–6–62, Cl. 88—57.
Ludin, Eric. Scoop shovel. 3,063,174, 11–13–62, Cl. 37—130.
Ludin, Werner, to L. von Roll A.G. Furnace for the combustion of domestic refuse and other inferior-grade fuels. 3,046,915, 7–31–62, Cl. 110—15.
Ludington, Robert L.: *See*—
Holloway, Robert M., and Ludington. 3,040,844.
Nolan, Robert A. 3,037,587.
Ludlow Corp.: *See*—
Larsen, George H. 3,031,328.
Wilkie, Robert C., and Walter. 3,060,058.
Ludlow, Edmund, B. H. Irwin, and J. C. Brighton, to Arvin Industries, Inc. Electric heating panel. 3,020,379, 2–6–62, Cl. 219—19.
Ludlow, Thomas B., to Bemis Bro. Bag Co. Heat-dry printing ink vehicle. 3,024,213, 3–6–62, Cl. 260—23.
Ludlow, Thomas B., to Bemis Bro. Bag Co. Tape heater. 3,038,982, 6–12–62, Cl. 219—19.
Ludowici, J. C., & Son Ltd.: *See*—
Ludowici, Richard E., Lukins, and Simmons. 3,042,568.
Ludowici, Johann W. Apparatus for baking ceramic material. 3,026,595, 3–27–62, Cl. 25—134.
Ludowici, Johann W. Lifting devices. 3,034,765, 5–15–62, Cl. 254—122.
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Ludvigson, Palmer C.: *See*—
Mueller, Christian D., and Ludvigson. 3,046,597.
Ludvik, George F., and J. J. D'Amico, to Monsanto Chemical Co. Haloalkenyl esters of dithiocarbanilic acids. 3,061,624, 10–30–62, Cl. 260—455.
Ludwig, Bernard J.: *See*—
Berger, Frank M., and Ludwig. 3,059,022.
Ludwig, Christian: *See*—
Kuppenbender, Heinz, Erbe, and Ludwig. 3,054,324.
Ludwig, Donald A., and M. Nilson. Free body dispenser. 3,044,665, 7–17–62, Cl. 222—129.
Ludwig, Gunter, to Societe Financiere d'Expansion Commerciale et Industrielle S.A. "Spindex". Supersonic barrel-fired projectiles carrying propulsion units. 3,067,685, 12–11–62, Cl. 102—92.5.
Ludwig, Herbert: *See*—
Klee, Werner. 3,068,524.
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Ludwig, John W., to Ling-Temco-Vought, Inc. Hydraulic system. 3,031,845, 5–1–62, Cl. 60—51.
Ludwig, Mike, Jr., and R. R. Johnson. Bowling alley conditioning machine. 3,042,950, 7–10–62, Cl. 15—50.
Ludwig, Norman C., to United States Steel Corp. Proportioning control system. 3,027,099, 3–27–62, Cl. 241—33.
Ludwig, Oskar R. Flush single-line partitions. 3,049,197, 8–14–62, Cl. 189—34.
Ludwig, Walter: *See*—
Koch, Ernst, Kollinsky, and Ludwig. 3,058,913.
Ludwig, Walter D. Press safety valve. 3,051,187, 8–28–62, Cl. 137—110.
Ludwig, Walter D. Dual seal valve. 3,062,236, 11–6–62, Cl. 137—623.
Ludwig, William F. Tuning mechanism for drums. 3,021,743, 2–20–62, Cl. 84—419.
Ludwigson, George: *See*—
Lieberman, Jay B., and Ludwigson. 3,062,136.
Luebben, Emily: *See*—
Luebben, Umno F. 3,064,556.

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Luebkeman, George C. Binocular rib sight for guns. 3,028,674, 4–10–62, Cl. 33—47.

Luebkeman, George C. Earth mount. 3,067,846, 12–11–62, Cl. 189—91.

Lueck, Irving B.: *See*—
Andreas, Norman D., and Lueck. 3,035,483.

Lueckert, Hans: *See*—
Griehl, Wolfgang, and Lueckert. 3,053,810.

Luedi, Mark, to Fram Corp. Method of making filter cartridges. 3,038,211, 6–12–62, Cl. 18—59.

Luedicke, Alex H., Jr., and W. R. Chapman, to Applied Power Industries, Inc. Straightening vehicle frames or bodies. 3,026,925, 3–27–62, Cl. 153—32.

Luedtke, Robert F. Panfish filleting device. 3,052,914, 9–4–62, Cl. 17—7.

Luedtke, Warren J., and W. C. Harris, to S. C. Johnson & Son, Inc. Liquid dispenser. 3,038,193, 6–12–62, Cl. 15—566.

Luehdemann, Rolf: *See*—
Wygasch, Ewald, and Luehdemann. 3,019,082.

Luehrs, Hans J., to The Cottrell Co. Printing press plate clamping means for prebent wrap around printing plates of soft material. 3,016,010, 1–9–62, Cl. 101—415.1.

Luehrs, Hans J., to The Cottrell Co. Plate hook for tensioning printing plates to a rotary cylinder. 3,028,805, 4–10–62, Cl. 101—378.

Luehrs, Hans J., to The Cottrell Co. Self locking printing plate hooks. 3,028,806, 4–10–62, Cl. 101—388.

Luenberger, Frederick O., to U.S. Electrical Motors, Inc. Weather protected vertical motors. 3,017,526, 1–16–62, Cl. 310—60.

Luenberger, Frederick O., to U.S. Electrical Motors, Inc. Submersible motor lead connector. 3,059,210, 10–16–62, Cl. 339—94.

Luenser, Kurt K., to Verson Allsteel Press Co. Safety control circuit for presses and run button with safety lockout therefor. 3,056,481, 10–2–62, Cl. 192—143.

Lufkin, James E., to E. I. du Pont de Nemours and Co. Process of preparing dense non-fibrous nitrocellulose. 3,057,012, 10–9–62, Cl. 18—47.5.

Lufkin, James E., to E. I. du Pont de Nemours and Co. Process for simultaneously bleaching and reducing the viscosity of nitrocellulose. 3,062,805, 11–6–62, Cl. 260—223.

Lufkin Rule Co., The: *See*—
Zelnick, Charles. 3,042,990.
Zelnick, Charles. 3,044,731.

Luft, Ludwig: *See*—
Burns, Patrick L., and Luft. 3,065,185.

Luft, Ludwig, to Mine Safety Appliances Co. Apparatus for continuous separation of volatile components of a gaseous mixture. 3,016,106, 1–9–62, Cl. 183—2.

Luft, Philip H., to Westinghouse Air Brake Co. Railway track circuit. 3,035,167, 5–15–62, Cl. 246—130.

Luft, Philip H., to Westinghouse Air Brake Co. Control circuits. 3,046,392, 7–24–62, Cl. 246—130.

Luft, Richard: *See*—
Ibing, Rolf, Luft, and Nagel. 3,024,908.

Luftglass, Murray A., and M. Peldon, to Shell Oil Co. Polystyrene-styrene-copolymer molding compositions. 3,041,310, 6–26–62, Cl. 260—45.5.

Luftman, Alvin S.: *See*—
Hergenrother Rudolf C., Luftman, Sawyer, and Duggan. 3,068,548.

Lugagne, Paul: *See*—
Pruvot, Emile, Laparra, and Lugagne. 3,034,886.

Luger, Paul. Indefinitely long potentiometer. 3,028,572, 4–3–62, Cl. 338—176.

Luhan, James V., to Titanium Metals Corp. of America. Alloy of titanium. 3,061,427, 10–30–62, Cl. 75—175.5.

Luhm, Ralph R., to Olympic Screw & Rivet Corp. Drive pin rivet. 3,044,340, 7–17–62, Cl. 85—40.

Luhm, Ralph R., to Olympic Screw & Rivet Corp. Riveting machine. 3,053,100, 9–11–62, Cl. 74—55.

Luhman, George B., Jr., to Dairy Equipment Co. Liquid distribution device. 3,030,032, 4–17–62, Cl. 239—383.

Luhn, Hans P., and H. Reichle, to International Business Machines Corp. Germanium dice ganging and sorting device. 3,031,075, 4–24–62, Cl. 209—82.

Luiacono, Joseph M.: *See*—
Bell, William C., and Luiacono. 3,059,603.

Luijerink, Jan H., to Zwanenberg's Fabrieken N.V. Process for the preservation of non-homogeneous meat. 3,053,667, 9–11–62, Cl. 99—107.

Luijt, Hermanus N. Combined brake and accelerator pedal. 3,029,916, 4–17–62, Cl. 192—3.

Luik, Ilmar: *See*—
Kittrell, Richard L., Luik, and Welch. 3,038,089.
McCoy, David O., and Luik. 3,030,621.

Lulkart, Ralph, II, and J. B. McGeever. Safety lock for medicine cabinet doors. 3,023,601, 3–6–62, Cl. 70—297.

Luisada, August G.: *See*—
Weinberger, Jan V., and Luisada. 3,065,351.

Lukas, Adam, and E. Broft, to Motor-Condensator-Compagnie Schloz K.-G. Electric filter. 3,026,965, 3–27–62, Cl. 183—7.

Lukasik, Adam F.: *See*—
Horvath, Charles, and Lukasik. 3,029,022.

Lukawsky, Michael. Emergency brake and anti-skid device. 3,042,150, 7–3–62, Cl. 188—4.

Luke, George W., to Research Corp. Microwave switch. 3,017,585, 1–16–62, Cl. 333—7.

Lukens, Alan F.: *See*—
Angst, Gustave, and Lukens. 3,047,755.

Lukens Steel Co.: *See*—
Dills, John H. 3,052,067.
Gulya, John A. 3,024,529.
Guyer, Raymond A., Jr. 3,062,140.
McEuen, Kenneth W., and Smith. 3,015,885.

Lukes, Robert M., to General Electric Co. Process of plasticizing a vinyl chloride resin with ditetrahydrofurfuryl terephthalate and product obtained thereby. 3,020,253, 2–6–62, Cl. 260—30.4.

Luketa, Frank J. Chafing gear for trawl nets. 3,018,580, 1–30–62, Cl. 43—9.

Luketa, Frank J. Trawl lines. 3,018,581, 1–30–62, Cl. 43—9.

Luketa, Frank J. Protective gear for trawl nets. 3,023,529, 3–6–62, Cl. 43—9.

Luketa, Frank J. Connector for trawl nets. 3,035,365, 5–22–62, Cl. 43—9.

Luketa, Frank J. Trawl net panel assembly. 3,035,366, 5–22–62, Cl. 43—9.

Luketa, Frank J. Spread, speed, distance, and on-bottom senser for trawl nets. 3,038,273, 6–12–62, Cl. 43—9.

Luketa, Frank J. Trawl net codend release and lock. 3,044,206, 7–17–62, Cl. 43—9.

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Luketa, Frank J. Shrimp segregator. 3,052,354, 9–4–62, Cl. 209—123.

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Luketa, Frank J. Trawler. 3,065,562, 11–27–62, Cl. 43—8.

Lukianov, Roman E., to Minneapolis-Honeywell Regulator Co. Data processing apparatus. 3,059,154, 10–16–62, Cl. 317—139.

Lukins, Warwick E.: *See*—
Ludewicl, Richard E., Lukins, and Simmons. 3,042,568.

Luk-O-Ma Corp.: *See*—
Arvan, John. 3,022,722.

Lula, Remus A.: *See*—
McCune, Harry E., III, and Lula. 3,035,338.

Lull, Le Grand H. Loader. 3,070,244, 12–25–62, Cl. 214—140.
Limberger, Walter. 3,062,123.

Lum, David W.: *See*—
Frank, Charles E., Lum, and Mador. 3,067,238.

Lum, David W., and K. Koch, and I. L. Mador, to National Distillers and Chemical Corp. Dimerization reaction. 3,069,455, 12–18–62, Cl. 260—465.

Lumalampan Aktiebolag: *See*—
Gunther, Gunnar G. J., and Rosengren. 3,058,866.

Lumbroso, Daniel: *See*—
Hellin, Michel, Coussemant, Lumbroso, and Servaud. 3,060,240.
Hellin, Michel, Coussement, Lumbroso, Servaud, and Alexandre. 3,057,923.
Hellin, Michel, Coussemant, Lumbroso, Servaud, and Alexandre. 3,060,238.
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Luminous Ceilings, Inc.: *See*—
Tuten, Gilbert W., and Maki. 3,035,672.

Luminous Products Corp.: *See*—
De Leo, Felix R., and Shapiro. 3,033,797.

Lummis, Bruce D., to General Dynamics Corp. Intercom system. 3,061,686, 10–30–62, Cl. 179—39.

Lummus Co., The: *See*—
Kniel, Ludwig. 3,055,183.
Korpi, Karl J., and Johnson. 3,015,555.
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Schnyder, Auxilius P. 3,035,963.
Worn, George A. 3,041,150.

Lummus Cotton Gin Co.: *See*—
Pease, William C., III. 3,046,872.
Vandergriff, Arvel L. 3,029,478.
Vandergriff, Arvel L. 3,046,611.
Vandergriff, Arvel L. 3,069,730.
Van Dorn, Donald W., Pease, Tillery, and Meade. 3,032,830.

Lummus, James L.: *See*—
Anderson, Duane B., and Lummus. 3,057,797.

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Limberger, Walter. 3,062,123.

Lumoprint Zindler K.G.: *See*—
Limberger, Walter. 3,021,817.
Limberger, Walter. 3,021,818.
Limberger, Walter. 3,024,716.
Limberger, Walter. 3,033,095.
Limberger, Walter. 3,044,386.

Lumoprint Zindler K.G.: *See*—Continued
Limberger, Walter. 3,054,340.
Limberger, Walter. 3,058,405.
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Limberger, Walter. 3,059,614.

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Lumsden, John, to Metallurgical Processes Ltd., and National Smelting Co. Ltd., doing business together as Metallurgical Development Co. Recovery of zinc from zinc-containing materials. 3,017,261, 1–16–62, Cl. 75—24.

Luna, Jose L.: *See*—
Bystricky, Joseph C., Jennings, and Luna. 3,035,661.

Lunak, Hynek, to Sdruzeni podniku textilniho strojirenstvi. Rotatable cam-piece for the control of needle butts in a circular knitting machine. 3,030,785, 4–24–62, Cl. 66—50.

Lůnak, Hynek, to Sdruzeni podniku textilniho strojirenstvi. Device in a circular knitting machine for controlling two lock-systems. 3,033,013, 5–8–62, Cl. 66—41.

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Lund, Alvin O., and D. J. Vanderzee, to Westinghouse Electric Corp. Door protective edge. 3,017,957, 1–23–62, Cl. 187—48.

Lund, Arthur F., to Cherry-Burrell Corp. Method of producing fruit juice concentrate. 3,053,668, 9–11–62, Cl. 99—205.

Lund, Douglas W. Infant holder. 3,034,502, 5–15–62, Cl. 128—134.

Lund, Geoffrey V., to Courtaulds North America Inc. Method for improving the properties of fabrics containing cross-linked regenerated cellulose material. 3,039,167, 6–19–62, Cl. 26—19.

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Lund, Jack H. Coaster. 3,018,913, 1–30–62, Cl. 215—100.5.

Lund, James K., C. C. Bauerlein, and J. C. Janquart, to The Dole Valve Co. Heat motor for a rotary ice tray. 3,020,-727, 2–13–62, Cl. 62—138.

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Lund, William E. Collapsible crib. 3,049,728, 8–21–62, Cl. 5—99.

Lundahl, Lars O., to Svenska Aktiebolaget Gasaccumulator. Flashing device. 3,021,451, 2–13–62, Cl. 315—219.

Lundahl, Ossian: *See*—
Ensign, George G., Soper, and Lundahl. 3,026,734.
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Lunday, Robert L. Adjustable book holder. 3,061,969, 11–6–62. Cl. 45—60.

Lundberg, Lennart A.: *See*—
Updegraff, Ivor H., and Lundberg. 3,061,571.

Lundberg, Lennart A., to American Cyanamid Co. Polymerizable elastomer-vinyl aromatic compound composition containing a catalyst promoter system and method of polymerizing same. 3,018,266, 1–23–62, Cl. 260—45.4.

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Lundbom, Wallace N., to J. F. Dillard. Mobile home furnace. 3,061,706, 10–30–62, Cl. 219—39.

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Lundeen, Allan J.: *See*—
Brindell, Gordon D., and Lundeen. 3,025,245.
Kennedy, Flynt, and Lundeen. 3,024,287.

Lundeen, Stanley A. Metering valve. 3,048,274, 8–7–62, Cl. 210—101.

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Lundeen, Stanley A. Control valve means. 3,066,801, 12–4–62. Cl. 210—98.

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Lundgren, Ake A. U.: *See*—
Månsson, Bo G. E., and Lundgren. 3,036,709.

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Lundgren, Leonard: *See*—
Adams, E. O. N. 3,060,987.

Lundia, Swain & Myers Inc.: *See*—
Pilcher, David D. 3,039,621.

Lundin, Erik G.: *See*—
Larsson, Lennart B., and Lundin. 3,031,886.

Lundin, Robert S., to General Time Corp. Device for comparing and displaying hysteresis characteristics. 3,040,-246, 6–19–62, Cl. 324—34.

Lundmark, Johan F. S.: *See*—
Dahlgren, Karl E. H., and Lundmark. 3,026,717.

Lundquist, Ingemar H., and W. Schaerer, to International Postal Supply Corp. Postal meter. 3,062,133, 11–6–62, Cl. 101—92.

Lundquist, John A.: *See*—
Nelson, John W., Lundquist, and Young. 3,024,293.

Lundquist, Richard C.: *See*—
Hlinsky, Emil J., and Lundquist. 3,050,293.
Newton, John S., and Lundquist. 3,050,292.

Lundquist, Richard C., to Goodman Mfg. Co. Core breaking device for rotary boring heads. 3,050,291, 8–21–62, Cl. 262—9.

Lundquist, Richard C., and V. A. Dekan, to Goodman Mfg. Co. Telescopic rotary boring head. 3,035,822, 5–22–62, Cl. 262—9.

Lundqvist, Omkar H.: *See*—
Horandner, Fritz. 3,056,508.

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Lundskog, Sten P.: *See*—
Knoell, Oscar F., and Lundskog. 3,015,507.

Lundskog, Sten P., to United States Steel Corp. Lift hook with self-operating safety latch. 3,055,696, 9–25–62, Cl. 294—83.

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Jackson, Donald R., and Lundsted. 3,036,118.
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Lundstrom Laboratories, Inc.: *See*—
Egbert, William R. 3,065,966.

Lundstrom, Oscar C., and D. K. Yee, to Hughes Aircraft Co. Microwave means. 3,042,886, 7–3–62. Cl. 333—98.

Lundstrom, Oscar W.: *See*—
Johnston, James E., and Lundstrom. 3,069,012.

Lundstrom, William C. Ice cube making machine. 3,055,185, 9–25–62. Cl. 62—138.

Lundvall, John S.: *See*—
Loomis, Russell M., Kuellmar, and Lundvall. 3,017,843.
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Lundy, Alvin S., and G. C. Schreiber, to Claude B. Schneible Co. Particle and fluid collector. 3,048,956, 8–14–62, Cl. 55—235.

Lunetiers Cottet Poichet, Tagnon & Cie, Societe des: *See*—
Cretin-Maitenaz, Bernard. 3,021,647.

Lung, Kenneth R., to The Tait Mfg. Co. Pumps. 3,035,522, 5–22–62, Cl. 103—7.

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Luning, Alfred O. Antibacklash gear. 3,035,454, 5–22–62, Cl. 74—440.

Lunken, Edmund P., to The Lunkenheimer Co. Ball valve. 3,047,007, 7–31–62. Cl. 137—315.

Lunkenheimer Co., The: *See*—
Lunken, Edmund P. 3,047,007.

Lunn, Edward O., to S. Hansel. Log debarkers. 3,026,919, 3–27–62, Cl. 144—208.

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Lunsford, Gus, to Western Electric Co., Inc. Jig centering device. 3,069,934, 12–25–62, Cl. 77—62.

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Lunt, Alden P., and C. P. Anderson, to The Ansonia Wire & Cable Co. Apparatus for sheathing a cable or the like. 3,026,924, 3–27–62, Cl. 153—1.

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Lunzer, Frederic A., to Dejur-Amsco Corp. Adjustable light baffle. 3,038,083, 6–5–62, Cl. 250—237.

Lunzer, Frederic A., to De Jur-Amsco Corp. Self-threading motion picture machine. 3,040,945, 6–26–62, Cl. 226—91.

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Luper, Forrest E.: *See*—
Luper, Forrest E. 3,046,040.

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Luper & Sundberg: *See*—
Luper, Forrest E. 3,046,040.

Lupfer, Dale E., to Phillips Petroleum Co. Fractionation control system. 3,020,213, 2–6–62, Cl. 202—160.

Lupfer, Dale E., to Phillips Petroleum Co. Sampling system for a process analyzer. 3,020,975, 2–13–62, Cl. 183—32.

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Luppold, Robert H., Jr.: *See*—
Stough, Donald M., and Luppold. 3,053,083.

Luppold, Robert H., Jr., to Hagan Chemicals and Controls Inc. Electronic controls with reversing shade pole motors. 3,046,461, 7–24–62, Cl. 318—208.

Lurgi Gesellschaft fur Chemie und Huttenwesen mit Beschrankter Haftung: *See*—
Hennenberger, Karl-Heinz, and Heilig. 3,034,776.

Lurie, Julian: *See*—
Powell, Roger F., Martin, Lurie, Nichol, and Brand. 3,034,461.
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Lurie, Robert J., to A. D. Little, Inc. Recovery of chemicals from waste liquors. 3,061,408, 10–30–62, Cl. 23—48.

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Lüscher, Jakob, to Robert Bosch G.m.b.H. Regulator arrangement for generators. 3,025,449, 3–13–62, Cl. 322—25.

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Lush, Gerald B.: *See*—
Godson, David H., Leafe, Lush, and Stevenson. 3,069,429.

Lushansky, Edward F., Jr. Game apparatus. 3,021,140, 2–13–62, Cl. 273—130.

Lusher, Kenneth G., M. McDavitt, and H. B. Vincent, to Owens-Illinois Glass Co. Skylight structure and method of fabrication. 3,026,575, 3–27–62, Cl. 18—59.

Lushetsky, George: *See*—
Hebenstreit, Lester V., and Lushetsky. 3,054,587.

Lusk, Carroll B. Light projector. 3,020,390, 2–6–62, Cl. 240—3.

Lusskin, Harold, L. S., and R. Hand tool. 3,049,018, 8–14–62, Cl. 74—89.

Lusskin, Lillian S.: *See*—
Lusskin, Harold, L. S., and R. 3,049,018.

Lusskin, Ralph: *See*—
Lusskin, Harold, L. S., and R. 3,049,018.

Lusskin, Robert M.: *See*—
Davidson, David, and Lusskin. 3,045,047.

Lust, Siegmund: *See*—
Jacobi, Ernest, Lust, and Van Schoor. 3,046,189.

Lusted, Emile W. to Delta Tank Mfg. Co., Inc. Apparatus for handling of pulverulent solid materials. 3,061,379, 10–30–62, Cl. 302—29.

Lustig, Howard E.: *See*—
Groudan, Alan, Wirfel, Lustig, and Dessauer. 3,040,259.

Lustig, Howard E., to The Sperry Rand Corp. Bomb computer. 3,029,017, 4–10–62, Cl. 235—61.5.

Lustig, Robert H. Hydraulic reservoir. 3,023,921, 3–6–62, Cl. 220—5.

Lustman, Benjamin: *See*—
Fischer, Robert L., Losco, and Lustman. 3,025,592.

Lütcke, Helmut O., to Beteiligungs-und Patentverwaltungsgesellschaft mit Beschrankter Haftung. Tandem-speed straining machine with intermediate tube. 3,055,164, 9–25–62, Cl. 57—14.

Luten, Daniel B., Jr., and R. E. Meeker, to Shell Oil Co. Stabilization of hydrogen peroxide. 3,053,634, 9–11–62, Cl. 23—207.5.

Luterick, Marcellus C., to Diced Cream of America Co. Carton for ice cream or the like. 3,058,645, 10–16–62, Cl. 229—31.

Lutes, Ronald R.: *See*—
Sheldon, Charles H., and Lutes. 3,068,869.

Lutes, Harriet W.: *See*—
Rogers, Howard G., and Lutes. 3,039,869.

Lutes, Russell: *See*—
Traynor, Willard B. 3,045,226.

Lutgerhorst, Albertus G.: *See*—
Hennemann, Georg, and Lutgerhorst. 3,018,192.

Luth, Robert C., to Signode Steel Strapping Co. Strap dispenser. 3,058,689, 10–16–62, Cl. 242—128.

Luther, Justus: *See*—
Sommerfeld, Franz, and Luther. 3,056,339.

Luther, Justus, to Allgauer Alpenmilch A.G. Method and apparatus for the continuous filling of plastic tubing with sterile liquids. 3,020,689, 2–13–62, Cl. 53—140.

Luther, Paul E. Liquid filling apparatus. 3,050,090, 8–21–62, Cl. 141—150.

Luthgens, Manfred W.: *See*—
von Koeppen, Andreas, and Luthgens. 3,055,792.

Luthi, Alois G., and E. E. Dutton, to Luthi Machinery & Engineering Co., Inc. Can filling machine. 3,026,660, 3–27–62, Cl. 53—124.

Lüthi, Hans, to Erapa Etablissement Fuer Rationelle Verpackung und Spedition. Means for magnetically maintaining metal tape in a loop in banding apparatus. 3,020,827, 2–13–62, Cl. 100—26.

Luthi, Hans, to Erapa Etablissement fur Rationelle Verpackung und Spedition. Strapping apparatus. 3,057,289, 10–9–62, Cl. 100—26.

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Luthi, Alois G., and Dutton. 3,026,660.

Luthy, Adolf, and P. Hummel, to Brown, Boveri & Cie, Aktiengesellschaft. Process for the production of turbine rotors welded from single parts. 3,067,490, 12–11–62, Cl. 29—156.8.

Lutje Wooldrik, Gerrit J.: *See*—
Eekhout, Frederik J., and Lutje Wooldrik. 3,025,186.

Lutsch, Gene C.: *See*—
Krasclusky, Theodore, Jr., and Lutsch. 3,062,521.

Lutsey, Thomas H.: *See*—
Daanen, Sylvester J., and Lutsey. 3,051,303.

Luttner, George J., Jr. Safety door stop. 3,055,043, 9–25–62, Cl. 16—86.

Luttrell, Earl B., to Luttrell Engineering Corp. Radial turbine engine. 3,015,211, 1–2–62, Cl. 60—39.36.

Luttrell Engineering Corp.: *See*—
Luttrell, Earl B. 3,015,211.

Lutts, William M., Sr. Readily movable railway switch. 3,042,362, 7–3–62, Cl. 246—453.

Lutwack, Wilton J. Portfolio made of paper. 3,070,279, 12–25–62, Cl. 229—72.

Luty, Mitchell: *See*—
Sharon, Wilfred J., and Luty. 3,035,999.

Luty, August H.: *See*—
Hinderling, Rudolf, Lutz, and Schnider. 3,019,230.

Lutz, August H., and O. Schnider, to Hoffmann-La Roche Inc. N-aminoalkyl-4-phenyl-4-lower alkyl-2-pyrrolidones. 3,058,-986, 10–16–62, Cl. 260—294.

Lutz, Eugen, K.G.: *See*—
Hofman, Willi J. L. 3,060,981.

Lutz, Frederick W., to Leetronics, Inc. Measuring device. 3,030,812, 4–24–62, Cl. 73—426.

Lutz, Helmut, to International Standard Electric Corp. Magnetic deflecting yoke for cathode-ray tubes. 3,045,139, 7–17–62, Cl. 313—76.

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Lutz, Karl: *See*—
Hofer, Kurt, Hemmi, Peter, and Lutz. 3,033,640.
Leber, Jean P., and Lutz. 3,041,367.

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Lutz, Robert E.: *See*—
Pope, Louis A. 3,028,985.

Lutz, Robert G., to Shell Oil Co. Polyethylene-wax compositions. 3,048,551, 8–7–62, Cl. 260—28.5.

Lutz, Rudolf, and G. Salzmann, to Klockmer-Humboldt-Dent Aktiengesellschaft. Method of purifying heavy ferrosilicon suspensions employed for sink-float separation processes. 3,052,355, 9–4–62, Cl. 209—166.

Lutz, Walter: *See*—
Mosimann, Hans, and Lutz. 3,058,948.

Lutz, Wilson B.: *See*—
Meltzer, Robert I., Stanaback, and Lutz. 3,046,306.
Lu-Van, Inc.: *See*—
Van Syoc, Auburn G., Sr., Almy, and Sydow. 3,047,883.
Luvisi, John P., to Universal Oil Products Co. Cycloalkenyl borates and preparation thereof. 3,020,307, 2–6–62, Cl. 260—462.
Luvisi, John P., to Universal Oil Products Co. Halocycloalkenyl borates and preparation thereof. 3,020,309, 2–6–62, Cl. 260—462.
Luvisi, John P., to Universal Oil Products Co. Cycloalkadienic derivatives of N-(alkynyl) phenothiazines. 3,029,234, 4–10–62, Cl. 260—243.
Luvisi, John P., to Universal Oil Products Co. Halocycloalkadienic derivatives of N-(alkynyl) phenothiazines. 3,029,235, 4–10–62, Cl. 260—243.
Luvisi, John P., to Universal Oil Products Co. Reaction product of N,N-dialkenylmelamine and a salicylaldehyde and its use. 3,050,461, 8–21–62, Cl. 208—251.
Luvisi, John P., to Universal Oil Products Co. Insecticidal compositions of matter and method of preparation therefor. 3,056,793, 10–2–62, Cl. 260—290.
Luvisi, John P., to Universal Oil Products Co. Cycloalkenic derivatives of epoxycyclohexanes. 3,066,152, 11–27–62, Cl. 260—348.
Luvisi, John P., and J. A. Chenicek, to Universal Oil Products Co. Removing metal components from organic liquids. 3,023,161, 2–27–62, Cl. 208—251.
Luvisi, John P., and L. Schmerling, to Universal Oil Products Co. Preparation of p-nitrodiarylamines. 3,053,896, 9–11–62, Cl. 260—576.
Luvisi, John P., and L. Schmerling, to Universal Oil Products Co. Dehalogenation of halogenated aromatic compounds. 3,054,830, 9–18–62, Cl. 260—650.
Luvisi, John P., and L. Schmerling, to Universal Oil Products Co. Preparation of amino substituted aromatic compounds. 3,057,922, 10–9–62, Cl. 260—581.
Luvisi, John P., and L. Schmerling, to Universal Oil Products Co. Dehalogenation of halogenated aromatic compounds. 3,064,059, 11–13–62, Cl. 260—650.
Luwa Ltd.: *See*—
Doebeli, Jacob. 3,040,495.
Lux, John F.: *See*—
Wahl, Albert J., Lux, and Gould. 3,068,543.
Luxeder, William F. Cargo space divider for automobiles. 3,027,017, 3–27–62, Cl. 211—184.
Luxembourgeoise de Brevets et de Participations, Societe: *See*—
Paulsen, Jean F. 3,037,764.
Luxton, Dean H., and R. E. Corrigan, to Rheem Mfg. Co., Inc. Teaching machine. 3,052,041, 9–4–62, Cl. 35—9.
Luyben, William J. Concrete form tie. 3,069,743, 12–25–62, Cl. 25—131.
Luzader, Gilbert B., to Union Carbide Corp. Oxidation of alkylbenzenes. 3,040,101, 6–19–62, Cl. 260—592.
Luzader, Gilbert B., to Union Carbide Corp. Oxidation of alkylbenzenes. 3,040,102, 6–19–62, Cl. 260—592.
Luzeau, Yves E., to E. I. du Pont de Nemours and Co. Colored metallic finish. 3,057,749, 10–9–62, Cl. 117—76.
Luzzi, John J. R.: *See*—
Resnick, Paul, and Luzzi. 3,028,377.
Lwowski, Viktor: *See*—
Goerrig, Dieter, and Lwowski. 3,023,082.
Lyall, George D., and M. J. Grandin, to Moore Business Forms, Inc. Continuous tabulating card strip. 3,047,311, 7–31–62, Cl. 281—5.
Lyall, James B.: *See*—
Scoles, Graham J., and Lyall. 3,066,260.
Lydfors, John, to Aktiebolaget Addo. Multiplier printing mechanism. 3,016,188, 1–9–62, Cl. 235—60.
Lydfors, John. Calculating machine conditionable for automatic multiplying, especially short-cut multiplying. 3,032,261, 5–1–62, Cl. 235—60.
Lydle, John E., to The Ken-Tool Mfg. Co. Circumferentially traveling tire mounting tool. 3,050,110, 8–21–62, Cl. 157—1.24.
Lydle, John E. Wheel puller device. 3,063,140, 11–13–62, Cl. 29—231.
Lydle, John E., and R. R. Dunbar; to said J. E. Lydle. Tire changing machine. 3,050,096, 8–21–62, Cl. 144—288.
Lydon, Janice: *See*—
Arey, Ralph G. 3,037,281.
Lye, Robert G., to Union Carbide Corp. Electric lamp. 3,054,921, 9–18–62, Cl. 313—112.
Lykins, James H.: *See*—
Manning, Frank W., Groothuis, Lykins, Mahoney, and Papke. 3,038,997.
Lykkeberg, Alfred. Meat slicing machine. 3,028,894, 4–10–62, Cl. 146—153.
Lykken, Francis H.: *See*—
Lykken, Henry G. and W. H. 3,038,669.
Lykken, Henry G., deceased (by F. H. Lykken, general administratrix), and W. H. Lykken, to Microcyclomat Co. Fluid energy classifying mill. 3,038,669, 6–12–62, Cl. 241—10.
Lykken, William H.: *See*—
Lykken, Henry G. and W. H. 3,038,669.
Lyle, Charles A.: *See*—
Doré, Franklyn, and Lyle. 3,024,005.
Lyle, James W., to Union Carbide Corp. Making spheroidal powder. 3,041,672, 7–3–62, Cl. 18—47.3.
Lyle, John M., to Ruud Mfg. Co. Two temperature hot water tank. 3,065,764, 11–27–2, Cl. 137—337.
Lyle, Robert E., Jr., and H. J. Troscianiec, to Research Corp. Aroyipiperidinois and esters thereof. 3,029,244, 4–10–62, Cl. 260—294.3.
Lyles, George D. E. F. Griswold, Jr., and H. L. Gentle, said Griswold assor. to said Gentle. Electric cradling basket. 3,060,461, 10–30–62, Cl. 5—109.
Lyman, David H. C., and J. F. McGrail; said McGrail assor. to said Lyman. Recording apparatus for bowling score. 3,024,043, 3–6–62, Cl. 281—8.
Lyman, Frank, Jr., to Cambridge Therminonic Corp. Electrical connector. 3,064,232, 11–13–62, Cl. 339—255.
Lyman, Harold T., to Aladdin Industries, Inc. Multi-band radio frequency tuner. 3,059,195, 10–16–62, Cl. 336—77.
Lyman, Homer F. Dishwashing machine wash and rinse fluid discharge apparatus. 3,020,917, 2–13–62, Cl. 134—58.
Lyman, Homer F. Dishwashing machine. 3,040,874, 6–26–62, Cl. 198—181.
Lyman, Joseph. Methods and means for making molded plastic articles. 3,021,569, 2–20–62, Cl. 18—56.
Lyman, Richard C., R. I. Van Nice, and W. G. Evans, to Westinghouse Electric Corp. Logic circuitry. 3,040,178, 6–19–62, Cl. 250—213.
Lyman, Roger T., to Kooltronic Fan Co. Chassis ventilating fans for electronic equipment. 3,019,965, 2–6–62, Cl. 230—259.
Lyman, Thomas M. Non-messy tack cloth. 3,028,618, 4–10–62, Cl. 15—209.
Lyman, Wallace R., to Westinghouse Electric Corp. Water cooler apparatus. 3,033,007, 5–8–62, Cl. 62—298.
Lynam, Thomas M.: *See*—
Lynam, Franklin G., and Lynam. 3,050,092.
Lynch, Arthur H., Sr. Steel cutter support guide and gauge. 3,049,956, 8–21–62, Cl. 83—467.
Lynch Carrier Systems, Inc.: *See*—
Noller, Walter E. 3,061,783.
Lynch, Cecil G., to Construction Machinery Co. Connecting means for movable concrete chute sections. 3,053,367, 9–11–62, Cl. 193—10.
Lynch Corp.: *See*—
Hamilton, Joseph R. 3,036,556.
Hamilton, Joseph R. 3,060,707.
Marsley, John F., Bartlo, Brigham, and Campbell. 3,055,154.
McVicker, Robert F. 3,064,566.
Lynch, David. Precision scribing apparatus. 3,059,337, 10–23–62, Cl. 33—32.
Lynch, Donald W., to General Electric Co. Clothes drying machine. 3,034,223, 5–15–62, Cl. 34—79.
Lynch, Edmund. Collapsible reflector oven. 3,026,866, 3–27–62, Cl. 126—274.
Lynch, Eric R., and E. B. McCall, to Monsanto Chemicals Ltd. Preparation of tetrachloroalkylphenols. 3,035,099, 5–15–62, Cl. 260—623.
Lynch, George L.: *See*—
Woolslayer, Homer J., Jenkins, Iddings, and Lynch. 3,058,311.
Lynch, Hugh C. Sheet metal structures. 3,034,610, 5–15–62, Cl. 189—36.
Lynch, John E., J. E. Brennan, and R. C. Brasington, to The Cincinnati Milling Machine Co. Machine tool auxiliary spindle drive. 3,018,698, 1–30–62, Cl. 90—16.
Lynch, John P., F. W. Osborn, and E. L. Hessler, to Black, Sivalls & Bryson, Inc. Apparatus for applying gaskets to washers. 3,042,560, 7–3–62, Cl. 154—1.5.
Lynch, John T., to Burroughs Corp. Logic diode and class-A operated logic transistor gates in tandem for rapid switching and signal amplification. 3,058,007, 10–9–62, Cl. 307—88.5.
Lynch, John W., to J. Randolph. Multiple purpose plow. 3,052,306, 9–4–62, Cl. 172—140.
Lynch, Joseph A.: *See*—
Lynch, Carl A., McClosky, and Lynch. 3,015,922.
Lynch, Leslie S., Jr., to The Thomas & Betts Co. Crimping tool. 3,066,717, 12–4–62, Cl. 153—1.
Lynch, Matthew J., to Abbott Laboratories. Improvement in wine taste. 3,032,417, 5–1–62, Cl. 99—36.
Lynch, Michael J.: *See*—
Jones, Harold S., Dunlop, Lynch, and Prior. 3,035,961.
Lynch, Neal J. Duck caller and decoy. 3,034,245, 5–15–62, Cl. 43—3.
Lynch, Paul J.: *See*—
Divers, Raymond T., and Lynch. 3,054,844.
Lynch, Thomas A., to The Warren-Teed Products Co. Therapeutic preparations of elemental iron. 3,065,138, 11–20–62, Cl. 167—68.
Lynch, Thomas E., to Clevite Corp. Depth control for search torpedo. 3,054,371, 9–18–62, Cl. 114—25.
Lynch, Thomas E., to Clevite Corp. Torpedo homing system. 3,061,166, 11–6–62, Cl. 114—23.
Lynch, Thomas J., to Vector Mfg. Co., Inc. Switching system comprising sequentially operated gating means. 3,021,430, 2–13–62, Cl. 307—88.5.
Lynch, Vincent E.: *See*—
Luntz, Fred L., and Lynch. 3,053,474.
Lynch, Walter D. Bird feeder. 3,022,768, 2–27–62, Cl. 119—52.

Lyne, Joe A. Hydraulic turbo brake. 3,016,991, 1–16–62, Cl. 188—90.
Lyness, John S.: *See*—
Becker, Karl V., and Lyness, 3,061,854.
Lynn, Alger M. Turbojet spraying device. 3,058,666, 10–16–62, Cl. 239—142.
Lynn, John W.: *See*—
Fowler, George W., and Lynn. 3,020,310.
Roberts, Richard L., and Lynn. 3,043,872.
Lynn, John W., to Union Carbide Corp. Bis(cyanoalkyl) phenylenedicarbamates. 3,036,112, 5–22–62, Cl. 260—465.
Lynn, John W., to Union Carbide Corp. 2-(pyrazol)ethyl acrylates, process for their production, and polymerization products thereof. 3,043,819, 7–10–62, Cl. 260—88.3.
Lynn, John W., to Union Carbide Corp. Solid polymers of 3,5-dimethyl-1 vinyl pyrazole. 3,063,978, 11–13–62, Cl. 260—88.3.
Lynn, John W., and R. L. Roberts, to Union Carbide Corp. Sulfone-ester compounds. 3,028,416, 4–3–62, Cl. 260—481.
Lynn, John W., and R. L. Roberts, to Union Carbide Corp. 2-carboxyethylsuccinic anhydride. 3,036,093, 5–22–62, Cl. 260—346.8.
Lynn, John W., and R. L. Roberts, to Union Carbide Corp. Oxidation process. 3,048,628, 8–7–62, Cl. 260—537.
Lynn, John W., and A. T. Walter, to Union Carbide Corp. Stabilization of resins. 3,053,870, 9–11–62, Cl. 260—429.7.
Lynn, John W., R. L. Roberts, and S. W. Tinsley, to Union Carbide Corp. Epoxy esters of 1,2,4-cyclopentanetricarboxylic acid. 3,057,880, 10–9–62, Cl. 260—348.
Lynn, John W., and R. L. Roberts, to Union Carbide Corp. Alkenyl 1,2,4-butanetricarboxylates. 3,062,871, 11–6–62, Cl. 260—485.
Lynn, John W., and A. T. Walter, to Union Carbide Corp. Stabilized resins. 3,067,167, 12–4–62, Cl. 260—45.75.
Lynn, John W., and R. L. Roberts, to Union Carbide Corp. Sulfide-nitrile compounds. 3,069,457, 12–18–62, Cl. 260—465.4.
Lynn, Lawrence B., to Westinghouse Electric Corp. Control devices. 3,017,778, 1–23–62. Cl. 74—5.12.
Lynn, Ralph D. to Jersey Production Research Co. Cell for determining drilling mud resistivities. 3,051,893, 8–28–62, Cl. 324—30.
Lynn, Robert R.: *See*—
Kelley, Bartram, Lynn, and Wagner. 3,035,643.
Lynn, Scott, and C. F. Oldershaw, to The Dow Chemical Co. Electrolytic cell and anode assembly thereof. 3,062,733, 11–6–62. Cl. 204—220.
Lynott, John J., to International Business Machines Corp. Recording device. 3,016,612, 1–16–62, Cl. 33—32.
Lynott, John J., to International Business Machines Corp. Magnetic transducer mounting. 3,031,532, 4–24–62, Cl. 179—100.2.
Lyon Corp.: *See*—
Lyon, George A. 3,034,142.
Lyon, Donald G., to Barry-Wehmiller Machinery Co. Unloader apparatus for stacked articles or the like. 3,022,905, 2–27–62, Cl. 214—8.5.
Lyon, Edwin, III: *See*—
Cohen, Charles L., Fitzpatrick, and Lyon. 3,024,458.
Lyon, Emory T.: *See*—
Moro-Lin, Joseph J., and Lyon. 3,070,683.
Lyon, Floyd A.: *See*—
Aronson, Theodore F., and Lyon. 3,025,770.
Aronson, Theodore F., and Lyon. 3,029,500.
Aronson, Theodore F., and Lyon. 3,053,129.
Lyon, Floyd A., and T. F. Aronson, to Halm Instrument Co., Inc. Coil winding means. 3,021,874, 2–20–62, Cl. 140—92.2.
Lyon, Floyd A., and C. R. Konazewski, to Halm Instrument Co., Inc. Bottle wrapping means. 3,056,246, 10–2–62, Cl. 53—49.
Lyon, Floyd A., and T. F. Aronson, to Halm Instrument Co., Inc. Sorting means. 3,067,871, 12–11–62, Cl. 209—73.
Lyon, George A. Wheel cover. Re. 25,142, 3–27–62, Cl. 301—37.
Lyon, George A., to Lyon Inc. Wheel cover. Re. 25,144, 3–27–62, Cl. 301—37.
Lyon, George A., to Lyon Inc. Method of making wheel covers. 3,015,294, 1–2–62, Cl. 113—116.
Lyon, George A., to Lyon Inc. Method of making sheet metal wheel cover members. 3,015,295, 1–2–62, Cl. 113—116.
Lyon, George A., to Lyon Inc. Apparatus for making wheel covers. 3,015,352, 1–2–62, Cl. 153—1.
Lyon, George A., to Lyon Inc. Brake drum cooling device. 3,018,856, 1–30–62, Cl. 188—264.
Lyon, George A., to Lyon Inc. Wheel cover. 3,019,055, 1–30–62, Cl. 301—37.
Lyon, George A. Apparatus for making wheel covers. 3,019,752, 2–6–62, Cl. 113—49.
Lyon, George A., to Lyon Inc. Wheel cover. 3,020,090, 2–6–62, Cl. 301—37.
Lyon, George A., to Lyon Inc. Method of making shells. 3,022,567, 2–27–62, Cl. 29—1.21.
Lyon, George A., to Lyon Inc. Air circulating wheel structure. 3,022,868, 2–27–62, Cl. 188—264.
Lyon, George A., to Lyon Inc. Wheel structure. 3,023,857, 3–6–62, Cl. 188—264.
Lyon, George A., to Lyon Inc. Means for dishing metal blanks for drawing. 3,024,832, 3–13–62, Cl. 153—2.
Lyon, George A., to Lyon Inc. Wheel cover. 3,025,110, 3–13–62, Cl. 301—37.
Lyon, George A., to Lyon Inc. Wheel cover. 3,025,111, 3–13–62, Cl. 301—37.
Lyon, George A., to Lyon Inc. Wheel cover. 3,025,112, 3–13–62, Cl. 301—37.
Lyon, George A., to Lyon Inc. Apparatus for making wheel covers. 3,025,315, 3–20–62, Cl. 113—49.
Lyon, George A., to Lyon Inc. Method of making wheel trim. 3,025,818, 3–20–62, Cl. 113—116.
Lyon, George A., to Lyon Inc. Method of making wheel trim. 3,025,819, 3–20–62, Cl. 113—116.
Lyon, George A., to Lyon Inc. Means for heading steel shells. 3,026,598, 3–27–62, Cl. 29—1.31.
Lyon, George A., to Lyon Inc. Wheel cover. 3,027,199, 3–27–62, Cl. 301—37.
Lyon, George A., to Lyon Inc. Wheel structure. 3,028,936, 4–10–62, Cl. 188—264.
Lyon, George A., to Lyon Inc. Muffler structure. 3,029,895, 4–17–62, Cl. 181—44.
Lyon, George A., to Lyon Inc. Muffler structure with baffle means. 3,029,896, 4–17–62, Cl. 181—57.
Lyon, George A., to Lyon Inc. Apparatus for forming integral ribs upon the circumference of a rigid tubular shape. 3,032,857, 5–8–62, Cl. 29—1.21.
Lyon, George A., to Lyon Inc. Brake drum cooling ring structure. 3,033,328, 5–8–62, Cl. 188—264.
Lyon, George A., to Lyon Inc. Sink retaining structure. 3,034,141, 5–15–62, Cl. 4—187.
Lyon, George A., to Lyon Corp. Sink retaining structure. 3,034,142, 5–15–62, Cl. 4—187.
Lyon, George A., to Lyon Inc. Sink retaining structure. 3,034,143, 5–15–62, Cl. 4—187.
Lyon, George A., to Lyon Inc. Sink structure. 3,034,144, 5–15–62, Cl. 4—187.
Lyon, George A., to Lyon Inc. Sink retaining structure. 3,034,145, 5–15–62, Cl. 4—187.
Lyon, George A., to Lyon Inc. Sink structure. 3,034,146, 5–15–62, Cl. 4—187.
Lyon, George A., to Lyon Inc. Sink structure. 3,034,147, 5–15–62, Cl. 4—187.
Lyon, George A., to Lyon Inc. Sink structure. 3,034,148, 5–15–62, Cl. 4—187.
Lyon, George A., to Lyon Inc. Sink structure. 3,034,149, 5–15–62, Cl. 4—187.
Lyon, George A., to Lyon Inc. Sink structure. 3,034,150, 5–15–62, Cl. 4—187.
Lyon, George A., to Lyon Inc. Shell nosing apparatus. 3,036,360, 5–29–62, Cl. 29—1.21.
Lyon, George A., to Lyon Inc. Wheel cover. 3,036,867, 5–29–62, Cl. 301—37.
Lyon, George A., to Lyon Inc. Wheel cover. 3,039,826, 6–19–62, Cl. 301—37.
Lyon, George A., to Lyon Inc. Wheel cover. 3,042,453, 7–3–62, Cl. 301—37.
Lyon, George A., to Lyon Inc. Method of attaching a bomb hanger socket. 3,044,162, 7–17–62, Cl. 29—470.5.
Lyon, George A., to Lyon Inc. Wheel cover. 3,048,444, 8–7–62, Cl. 301—37.
Lyon, George A., to Lyon Inc. Wheel cover. 3,050,338, 8–21–62, Cl. 301—37.
Lyon, George A., to Lyon Inc. Wheel cover. 3,050,339, 8–21–62, Cl. 301—37.
Lyon, George A., to Lyon Inc. Wheel cover. 3,050,340, 8–21–62, Cl. 301—37.
Lyon, George A., to Lyon Inc. Wheel structure. 3,051,276, 8–28–62, Cl. 188—264.
Lyon, George A., to Lyon Inc. Wheel cover. 3,051,529, 8–28–62, Cl. 301—37.
Lyon, George A., to Lyon Inc. Method of making wheels. 3,052,965, 9–11–62, Cl. 29—159.1.
Lyon, George A., to Lyon Inc. Wheel cover. 3,053,576, 9–11–62, Cl. 301—37.
Lyon, George A., to Lyon Inc. Method of preparing steel blanks for drawing. 3,055,104, 9–25–62, Cl. 29—552.3.
Lyon, George A., to Lyon Inc. Method of making wheel covers. 3,055,330, 9–25–62, Cl. 113—116.
Lyon, George A., to Lyon Inc. Air circulation wheel cover. 3,055,457, 9–25–62, Cl. 188—264.
Lyon, George A., to Lyon Inc. Wheel cover. 3,055,713, 9–25–62, Cl. 301—37.
Lyon, George A., to Lyon Inc. Apparatus for making wheel covers. 3,056,366, 10–2–62, Cl. 113—49.
Lyon, George A., to Lyon Inc. Method of making wheel covers. 3,056,367, 10–2–62, Cl. 113—51.
Lyon, George A., to Lyon Inc. Wheel cover. 3,057,664, 10–9–62, Cl. 301—37.
Lyon, George A., to Lyon Inc. Apparatus for making wheel covers. 3,066,629, 12–4–62, Cl. 113—44.
Lyon, George A., to Lyon Inc. Method for making wheel covers. 3,066,630, 12–4–62, Cl. 113—116.
Lyon, George A. Jr. Baking pan structure. 3,040,735, 6–26–62, Cl. 126—376.
Lyon, George A., Jr. Wheel cover. 3,066,985, 12–4–62, Cl. 301—37.
Lyon, Harold: *See*—
Black, Judd H., and Lyon. 3,064,464.
Lyon & Healy, Inc.: *See*—
Pratt, Samuel O. 3,501,033.

Lyon Inc.: *See*—
Celovsky, Michael J. 3,016,853.
Hornik, Frank J. 3,056,971.
Keder, Ernest A., and De Claire. 3,028,003.
Kowalski, Chester M. 3,053,210.
Lauve, Henry de S. 3,026,147.
Lyon, George A. Re. 25,144.
Lyon, George A. 3,015,294.
Lyon, George A. 3,015,295.
Lyon, George A. 3,015,352.
Lyon, George A. 3,018,856.
Lyon, George A. 3,019,055.
Lyon, George A. 3,020,090.
Lyon, George A. 3,022,567.
Lyon, George A. 3,022,868.
Lyon, George A. 3,023,857.
Lyon, George A. 3,024,832.
Lyon, George A. 3,025,110.
Lyon, George A. 3,025,111.
Lyon, George A. 3,025,112.
Lyon, George A. 3,025,815.
Lyon, George A. 3,025,818.
Lyon, George A. 3,025,819.
Lyon, George A. 3,026,598.
Lyon, George A. 3,027,199.
Lyon, George A. 3,028,936.
Lyon, George A. 3,029,895.
Lyon, George A. 3,029,896.
Lyon, George A. 3,032,857.
Lyon, George A. 3,033,328.
Lyon, George A. 3,034,141.
Lyon, George A. 3,034,143–50.
Lyon, George A. 3,034,360.
Lyon, George A. 3,036,667.
Lyon, George A. 3,039,826.
Lyon, George A. 3,042,453.
Lyon, George A. 3,044,162.
Lyon, George A. 3,048,444.
Lyon, George A. 3,050,338.
Lyon, George A. 3,050,339.
Lyon, George A. 3,050,340.
Lyon, George A. 3,051,276.
Lyon, George A. 3,051,529.
Lyon, George A. 3,052,965.
Lyon, George A. 3,053,576.
Lyon, George A. 3,055,104.
Lyon, George A. 3,055,330.
Lyon, George A. 3,055,457.
Lyon, George A. 3,055,713.
Lyon, George A. 3,056,366.
Lyon, George A. 3,056,367.
Lyon, George A. 3,057,664.
Lyon, George A. 3,066,629.
Lyon, George A. 3,066,630.
Martin, Wayne A. 3,023,858.
Shoemaker, John V. 3,044,834.
Shoemaker, John V. 3,048,445.
Shoemaker, John V. 3,048,446.
Shoemaker, John V. 3,055,712.

Lyon, John K., to Price-Pfister Brass Mfg. Co. Single-handled valve structure. 3,035,612, 5–22–62, Cl. 137—625.17.

Lyon, John K., Jr. Adjustable shock absorber system for vehicles. 3,062,330, 11–6–62, Cl. 188—87.

Lyon, Lyman R., to Square D Co. Spring operated mechanism for electric circuit breakers. 3,061,698, 10–30–62, Cl. 200—88.

Lyon, Roy: *See*—
Linnert, Arthur, and Lyon. 3,057,567.

Lyon, Ward L., to United States of America, Atomic Energy Commission. Uranium separation process. 3,030,176, 4–17–62, Cl. 23—14.5.

Lyon, William B., to American Metal Products Co. Shelf construction of the built-up type. 3,039,619, 6–19–62, Cl. 211—136.

Lyon, William H.: *See*—
Balmer, Donald F., and Lyon. 3,018,111.

Lyon, William H., to The Soundscriber Corp. Tape reversal mechanism. 3,051,405, 8–28–62, Cl. 242—55.12.

Lyon, William H., to The Soundscriber Corp. Automatic synchronous clutch for magnetic recorder-reproducer equipment. 3,054,861, 9–18–62, Cl. 179—100.2.

Lyonaise des Rechauds Catalytiques, Societe: *See*—
Risse, Roger. 3,037,554.

Lyons, Bernard J., to British Insulated Callender's Cables Ltd. Polyethylene compositions. 3,055,815, 9–25–62, Cl. 204—154.

Lyons, Donald N. Flush cutting portable rotary saw with flush guard. 3,042,089, 7–3–62, Cl. 143—159.

Lyons, Frank H., to E. L. Bruce Co. (Inc.) Toxicant premix. 3,055,802, 9–25–62, Cl. 167—42.

Lyons, Harold D.: *See*—
Nowlin, Gene, and Lyons. 3,023,198.
Nowlin, Gene, and Lyons. 3,024,227.

Lyons, Harold D., to Philips Petroleum Co. Production of solid olefin polymers. 3,051,692, 8–28–62, Cl. 260—93.7.

Lyons, Hubert W., and C. W. Goll III, to Merck & Co., Inc. Article handling and conveyor apparatus. 3,052,340, 9–4–62, Cl. 198—41.

Lyons, J., & Co. Ltd.: *See*—
Gluckstein, Leonard, and Everington. 3,040,647.
Gluckstein, Leonard, and Money. 3,069,271.

Lyons, Joseph F., and N. R. Odell, to Texaco Inc. Lubricating oils thickened to a grease consistency with calcium salts of lower fatty acids and phosphorus sulfidehydrocarbon reaction products. 3,025,238, 3–13–62, Cl. 252—32.7.

Lyons, Richard J., to United Merchants and Manufacturers, Inc. Automatic means for printing and embossing a continuous fabric web from selvedge to selvedge. 3,065,730, 11–27–62, Cl. 118—8.

Lyons, Robert J. Torsionally balanced hatchway door constructions. 3,067,455, 12–11–62, Cl. 16—180.

Lyons, Vincent J., to International Business Machines Corp. Compound semiconductor material control. 3,065,113, 11–20–62, Cl. 117—201.

Lyons, Vincent J., to International Business Machines Corp. Diffusion in semiconductor material. 3,070,466, 12–25–62, Cl. 148—1.5.

Lysett, Daniel W., to Borg-Warner Corp. Method of clutch assembly. 3,061,922, 11–6–62, Cl. 29—464.

Lysholm, Alf. Single stage turbine hydraulic torque converter. 3,016,709, 1–16–62, Cl. 60—54.

Lysik, Alfred L.: *See*—
Goodwin, Harlan F., Labounty, and Lysik. 3,066,459.

Lysobey, John. Extrusion and forming of plastic tubing. 3,035,302, 5–22–62, Cl. 18—5.

Lyster, Thomas C.: *See*—
Wiesinger, Frederick C., and Lyster. 3,024,631.

Lytle, Ardell L., to Special Effects, Inc. Pyrotechnic flare arrangement. 3,064,576, 11–20–62, Cl. 102—37.8.

Lytle, F. K.: *See*—
Willingham, Herman P. 3,015,903.

Lytle, John P., and P. F. Erickson, to Mine Safety Appliance Co. Combination exhalation valve and speaking diaphragm. 3,035,574, 5–22–62, Cl. 128—141.

Lytle, Lawrence D.: *See*—
Schmidt, Harold N., Tullsen, Katz, and Lytle. 3,022,299.

Lytle, Melba L.: *See*—
Caldwell, Joseph A., and Lytle. 3,021,278.

Lyttle, Douglas A.: *See*—
Heinzelman, Richard V., Lyttle, and Anthony. 3,026,325.

Lyttle, Sidney, and C. Lubkay, Jr. Air conditioning diffusers. 3,053,164, 9–11–62, Cl. 98—40.

Lytton, Kenneth G., and C. S. Wise, to Fiber Controls Corp. Fiber condenser. 3,039,149, 6–19–62, Cl. 19—203.

Lytton, Kenneth G., and C. S. Wise, to Fiber Controls Corp. Pneumatic separator. 3,039,151, 6–19–62, Cl. 19—205.

Lytton, Marion R.: *See*—
Koch, Walter T., Lytton, and Wielicki. 3,051,667.

Lytton, Marion R., to American Viscose Corp. Viscose for the production of rayon. 3,030,220, 4–17–62, Cl. 106—165.

Lytton, Marion R., to American Viscose Corp. Preparing all skin viscose rayon. 3,031,255, 4–24–62, Cl. 18—54.

Lytton, Marion R., to American Viscose Corp. Preparing viscose rayon. 3,063,786, 11–13–62, Cl. 18—54.

M.A.N.-Turbomotoren G.m.b.H.: *See*—
Leibach, Heinrich. 3,037,347.

M. & C. Conveyors, Inc.: *See*—
Campbell, Willard S. 3,039,624.

M-C Instrument Corp.: *See*—
Mellor, Robert H. 3,054,077.

MCR Enterprises, Inc.: *See*—
Ross, Valentine A., and Montalto. 3,037,311.

M & D Store Fixtures, Inc.: *See*—
Mapson, Donald L. 3,015,296.

MHD Research, Inc.: *See*—
Orbach, Harry K. 3,042,830.

M and H Industries: *See*—
Heyer, Don. 3,068,508.

M.J.B. Co.: *See*—
Rudel, George V. 3,045,361.

M. K. M. Knitting Mills, Inc.: *See*—
Estephanian, Estephan D., Packard, Clouthier, and Bontillette. 3,020,740.
Tysinger, Harold E. 3,069,882.

M-O Valve Co. Ltd., The: *See*—
Hogg, Harold A. C. 3,058,025.
Stephenson, Lawrence M. 3,043,984.

M.R.M. Co., Inc.: *See*—
Manas, Herman D. 3,052,269.

M.S.A. Research Corp.: *See*—
Beahm, Horace C., and Spartis. 3,049,461.
Bovard, Robert M. 3,049,812.
Burns, Patricia L., and Luft. 3,065,185.
Jackson, Carey B., and Shearer. 3,026,364.
Scharpf, George H. 3,016,160.
Werner, Robert C. 3,059,441.

M.V. Meccanica Verghera S.p.A.: *See*—
Agusta, Domenico. 3,067,528.

Maack, Hans. Tamper protective closure. 3,021,034, 2–13–62, Cl. 222—153.

Maag Gear-Wheel & Machine Co. Ltd.: *See*—
Graf, Willi. 3,044,221.
Haupt, Fritz. 3,036,475.
Müller, Karl. 3,031,765.
Sigg, Hans. 3,064,490.

Maag, Glenn A., ½ to J. C. De Wees, Jr. Carpenter's jig. 3,039,199, 6–19–62, Cl. 33—189.

Maag, Raymond H., to Olin Mathieson Chemical Corp. Smokeless powder. 3,037,891, 6–5–62, Cl. 149—97.

Maag-Zahnrader & Maschinen Aktien-Gesellschaft: *See*—
Meyer, Albert, and Wenger. 3,032,871.

Maak, Ingo B.: *See*—
Grimmeiss, Hermann G., Koelmans, and Maak. 3,027,329.
Maarschalk, Coenraad G. D., to Maarschalk Handelscompagnie N.V. Method for the manufacture of metal bearings or bearing surfaces. 3,057,046, 10–9–62, Cl. 29—149.5.
Maarschalk Handelscompagnie N.V.: *See*—
Maarschalk, Coenraad G. D. 3,057,046.
Maas, Hermann: *See*—
Armbruster, Werner, and Maas. 3,042,510.
Maas, Raymond W., to United States of America, Navy. Balloon gondola orienter. 3,069,114, 12–18–62, Cl. 244—31.
Maas, Raymond W., and R. B. Thorness, to United States of America, Navy. Balloon flight control. 3,018,069, 1–23–62, Cl. 244—32.
Maas, Raymond W., and R. B. Thorness, to United States of America, Navy. Balloon flight control switch. 3,037,-100, 5–29–62, Cl. 200—83.
Maass, Edward W. Biow molding machine and process. 3,048,891, 8–14–62 Cl. 18—5.
Maass, Herbert W. Pitless well adaptors. 3,018,829, 1–30–62, Cl. 166—88.
Maassen, René, ½ to E. A. Talbott. Bathroom fixture. 3,023,067, 2–27–62, Cl. 312—242.
Maaz, Karl: *See*—
Kuhrt, Friedrich, and Maaz. 3,042,887.
Maaz, Karl, to Siemens-Schuckertwerke Aktiengesellschaft. Hall-voltage generator. 3,042,854, 7–3–62, Cl. 323—94.
Mabeg Maschinenbau G.m.b.H.: *See*—
Schwebel, Adolf. 3,070,367.
Mabie, Henry C., to Esso Research and Engineering Co. Support and reinforcement structure and method of fabrication. 3,045,325, 7–24–62, Cl. 29—155.
Mabry, Harry H. Automobile boat carrier. 3,048,291, 8–7–62, Cl. 214—450.
Mabry, Marshall W.: *See*—
Brown, Winston E., and Mabry. 3,018,202.
MacAdams, Jesse E. Depth control device for a subfloating body. 3,015,271, 1–2–62, Cl. 102—14.
Macali, Thomas F., to International Telephone and Telegraph Corp. Automatic Light intensity compensator. 3,069,495, 12–18–62, Cl. 178—7.2.
Macaluso, Charles A., and H. Davis, to Worthington Corp. Diffuser vane system for turbomachinery. 3,069,070, 12–18–62, Cl. 230—115.
MacArthur Associates, Inc.: *See*—
MacArthur, Fulton H. 3,023,699.
MacArthur, Fulton H., to MacArthur Associates, Inc. Printing cylinder mounting. 3,023,699, 3–6–62, Cl. 101—375.
MacArthur, George W. Lathe center. 3,025,735, 3–20–62, Cl. 82—33.
MacArthur, Hamilton E., and J. J. Kertz, to Conforming Matrix Corp. Tilting mechanism for spray guns. 3,052,-212, 9–4–62, Cl. 118—323.
Macatician, John, and S. S. Hubard, deceased (J. W. Lewis, administrator), to Thiokol Chemical Corp. Method of minimizing boron oxide deposits in a jet-type engine. 3,043,101, 7–10–62, Cl. 60—35.4.
Macaulay, Norman, to Moore Business Forms, Inc. Recording paper coated with microscopic capsules of coloring material, capsules and method of making. 3,016,308, 1–9–62, Cl. 117—36.7.
Macaulay, Norman, to Moore Business Forms, Inc. Transfer sheet and composition therefor. 3,020,170, 2–6–62, Cl. 117—36.1.
Macaulay, Robert W.: *See*—
Hooker, Ralph J., Macaulay, and Blanton. 3,045,920.
MacBean, Donald G., to The Johnson Wire Works Ltd. Woven mesh joint fencing. 3,060,547, 10–30–62, Cl. 28—72.
Macbeth, Colin. Vehicle tyre vulcanising press. 3,016,570, 1–16–62, Cl. 18—17.
Macbeth Corp.: *See*—
Brubaker, Paul M. 3,061,782.
MacBeth, Gordon, and R. G. Heitz, to The Dow Chemical Co. Process for making pentachlorophenol. 3,051,761, 8–28–62, Cl. 260—623.
Maccaferri, Mario. Plasticizing cylinders for injection molding and the like machines. 3,020,592, 2–13–62, Cl. 18—30.
Maccaferri, Mario. Dispensers for adhesive tape. 3,031,117, 4–24–62, Cl. 225—47.
Maccaferri, Mario. Heat control systems for plasticizing cylinders. 3,060,302, 10–23–62, Cl. 219—39.
MacCaffray, Rex S., Jr., to C. H. Masland and Sons. Warp knitting pile method involving orientation by modifying warp. 3,029,621, 4–17–62, Cl. 66—85.
MacCaffray, Rex S., Jr., to C. H. Masland and Sons. Multiple pile projections. 3,058,326, 10–16–62, Cl. 66—191.
MacCallum, Robert B., to W. R. Grace & Co. Method of preparing ferromagnetic materials. 3,039,963, 6–19–62, Cl. 252—62.5.
MacCallum, Robert B., and F. R. Hurley, to W. R. Grace & Co. Method of preparing ferrimagnetic materials. 3,062,-746, 11–6–62, Cl. 252—62.5.
Maccani, Robert R.: *See*—
Oland, Frank, and Maccani. 3,070,572.
Macchia, Anthony. Screw assembly with ball and socket connection. 3,054,321, 9–18–62, Cl. 85—9.
MacClaren, Robert H., and F. L. Wells, to Eastman Kodak Co. Method of refining kraft wood pulp. 3,068,141, 12–11–62, Cl. 162—80.
MacCoun, Townsend D.: *See*—
Saltzman, Samuel M., and MacCoun. 3,068,008.

MacCracken, Calvin D., J. J. Rioux, G. N. Miles, and W. T. Hoffman, to Jet-Heet, Inc. Methods and apparatus for supplying conditioned air to the interiors of automobiles parked at drive-in theaters. 3,034,414, 5–15–62, Cl. 98—2.
MacDonald, Alden F., to Westinghouse Electric Corp. Radio receiver apparatus. 3,038,070, 6–5–62, Cl. 250—20.
MacDonald, Alexander T.: *See*—
Booth, Richard H., and MacDonald. 3,042,307.
MacDonald, Donald, to Owens-Corning Fiberglas Corp. Method of producing weatherproof insulating panels. 3,061,502, 10–30–62. Cl. 156—256.
MacDonald, E. Douglas: *See*—
Carbonara, Victor E., and MacDonald. 3,042,296.
MacDonald, Edgar M.: *See*—
Pickard, James W., and MacDonald. 3,070,103.
MacDonald, Edward: *See*—
Fricke, Gerald J., and MacDonald. 3,023,021.
MacDonald, Eric, to Ilford Ltd. Filter layer for photographic elements. 3,050,393, 8–21–62, Cl. 96—84.
MacDonald, Francis B. Line-of-sight illumination and viewing instrument. 3,066,569, 12–4–62, Cl. 88—1.
MacDonald, Harold B. Throw-away toothbrush and package. 3,070,102, 12–25–62, Cl. 132—84.
Macdonald, Herbert G., D. J. Barbour, and K. M. Claus, to The Mosaic Tile Co. Mullie unit ceramic tile assembly. 3,041,785, 7–3–62, Cl. 50—268.
MacDonald, Hugh D., Jr., A. M. Stott, and N. J. Waecker, to United States of America, Army. Extensible rocket catapult. 3,055,619, 9–25–62, Cl. 244—122.
MacDonald, Hugh D., Jr., R. W. Markgraf, and N. J. Waecker, to United States of America, Army. Means for absorbing energy of impulse. 3,057,263, 10–9–62, Cl. 89—1.
MacDonald, Ian J., to Dominion Engineering Works Ltd. Doctoring devices. 3,048,874, 8–14–62, Cl. 15—256.51.
MacDonald, James R., to Texas Instruments Inc. Loud speaker improvement. 3,061,677, 10–30–62. Cl. 179—1.
Macdonald, John G. Means for loading trailers onto railway cars. 3,047,904, 8–7–62, Cl. 16—48.
MacDonald, Norman, Jr.: *See*—
Cole, Theodore H., and MacDonald. 3,057,528.
MacDonald, Raymore D., to Ulrich Mfg. Co. Trench filling and shoulder spreading machine. 3,015,261, 1–2–62, Cl. 94—46.
MacDonald, Robert N.: *See*—
Langsdorf, William P., Jr., MacDonald, and Schweitzer. 3,017,389.
Lewis, Cameron D., MacDonald, and Schweitzer. 3,043,803.
Macdonald and Sons Inc.: *See*—
Macdonald, Walter. 3,056,174.
MacDonald, Waldron S. Echo firing device for a depth charge. 3,017,832, 1–23–62, Cl. 102—18.
MacDonald, Waldron S., and C. B. Brown. High gain signal amplifying device adapted for use with a marine mine. 3,020,843, 2–13–62, Cl. 102—18.
Macdonald, Walter, to Macdonald and Sons Inc. Long draft cradle. 3,056,174, 10–2–62, Cl. 19—255.
MacDonald, Wayne E., to St. Regis Paper Co. Carton closing machine. 3,015,919, 1–9–62, Cl. 53—38.
MacDonald, William J., to Technology Instrument Corp. of Acton. Rhodium germanium film resistor. 3,015,587, 1–2–62, Cl. 117—213.
MacDonough, Edward P., to Chance Vought Corp. Device for hydraulic powering system. 3,016,047, 1–9–62, Cl. 121—38.
MacDougall, Irvine: *See*—
Kuzell, Charles R., Fowler, Davis, Klein, and MacDougall. 3,051,467.
Kuzell, Charles R., Fowler, Davis, Klein, Uren, and Macdougall. 3,023,454.
MacDowell, Kenneth M., and R. A. Rapuano, to Raytheon Co. Transmit-receive system using a superregenerative traveling wave amplifier-oscillator. 3,038,068, 6–5–62, Cl. 250—13.
MacDuff, Stanley I., to The Bendix Corp. Power steering actuator. 3,017,945, 1–23–62, Cl. 180—79.2.
Mace, Ellis R., to Daystrom, Inc. Time sequence control circuit. 3,020,422, 2–6–62, Cl. 307—109.
Mace, Eric A. R.: *See*—
Mills, Aubrey R., and Mace. 3,029,483.
Mace, James W., to Texas Instruments Inc. Transistorized logarithmic I. F. amplifier. 3,061,789, 10–30–62, Cl. 329—101.
Mace, Luther M. Apparatus for converting the after compartment of an automobile. 3,063,064, 11–13–62, Cl. 5—94.
Mace, Robert C., F. J. Moore, and J. W. Mehl, to U.S. Pharmaceutical Inc. Stabilization of plasma with invert sugar. 3,057,781, 10–9–62, Cl. 167—78.
Macek, Thomas J.: *See*—
Mullins, John D., and Macek. 3,070,499.
Mullins, John D., and Macek. 3,070,501.
Zambito, Arthur J., and Macek. 3,028,308.
Macemon, Herbert J., to General Electric Co. Dishwasher with drying means. 3,050,866, 8–28–62, Cl. 34—78.
MacEwan, James U.: *See*—
Archambault, Maurice, MacEwan, and Olivier. 3,017,243.
MacEwan, John R., to The Consolidated Mining and Smelting Co. of Canada, Ltd. Sacrificial zinc anodes. 3,024,183, 3–6–62, Cl. 204—197.

MacFadgen, Donald J.: *See*—
Dietz, John W., MacFadgen, and Bossemeyer. 3,067,433.
MacFarlan, J. F., & Co. Ltd.: *See*—
Frearson, Peter M., and Stern. 3,024,241.
Frearson, Peter M., and Stern. 3,025,301.
Stern, Edward S. 3,024,234.
MacFarland, Charles H., to The Scott & Fetzer Co. Vacuum cleaner component. 3,049,744, 8–21–62. Cl. 15—324.
MacFarland, Robin A. Variable pitch propeller. 3,056,457, 10–2–62. Cl. 170—160.45.
MacFarland, Willard C., to Illinois Tool Works, Inc. Tuning device. 3,038,346, 6–12–62. Cl. 74—10.85.
MacFarlane, Walter J.: *See*—
Johnson, Kenneth M., and MacFarlane. 3,041,098.
Macgeorge, William D., to The Budd Co. Anti-backlash crosshead positioning means. 3,055,224, 9–25–62, Cl. 74—89.
MacGregor A.G.: *See*—
Stransky, Gustave. 3,045,631.
Stransky, Gustave. 3,045,632.
MacGregor-Comarain: *See*—
Kummerman, Henri. 3,045,746.
MacGregor, Dean J., to Westinghouse Electric Corp. Synchronous motor control. 3,020,462, 2–6–62, Cl. 318—170.
MacGregor, Dean J., to Westinghouse Electric Corp. Synchronous motor control. 3,020,463, 2–6–62, Cl. 318—175.
MacGregor, Dean J., to Westinghouse Electric Corp. Synchronous motor control. 3,023,349, 2–27–62, Cl. 318—170.
MacGregor, Dean J., to Westinghouse Electric Corp. Overtemperature protected apparatus. 3,036,242, 5–22–62, Cl. 317—13.
MacGregor, Paul T.: *See*—
Song, John, Horton, MacGregor, and Markley. 3,023,243.
MacGregor, Peter S., to Flight Refueling Ltd. Valves for controlling the flow of fluids. 3,040,778, 6–26–62, Cl. 137—630.15.
MacGregor Sport Products, Inc.: *See*—
Lundgren, Carl W., and Nutter. 3,028,283.
Spohr, Julius C. 3,030,629.
MacGregor, Warren S., to Crown Zellerbach Corp. Process of chlorinating dimethyl sulfide. 3,069,473, 12–18–62. Cl. 260—609.
Macgriff, Jack E. Image control device and method of printing. 3,056,136. 9–25–62. Cl. 346—74.
Macha, Edward A., and O. P. Steele III, to Westinghouse Electric Corp. Bearing mounting arrangement. 3,066,989, 12–4–62, Cl. 308—77.
Machado, Anthony A. Distributor for internal combustion engine. 3,062,928, 11–6–62, Cl. 200—29.
Machain, Eugene J., and J. N. Pappas, to United Shoe Machinery Corp. Welding apparatus. 3,025,386, 3–13–62. Cl. 219—125.
Machen, James F., to Simmonds Aerocessories, Inc. Metering pump mechanism. 3,046,894, 7–31–62, Cl. 103—2.
Machen, James F., to Simmonds Precision Products Inc. Metering pumps. 3,068,798, Cl. 103—44.
Macher, Karl: *See*—
Klemt, Gunter, and Macher. 3,016,799.
Klemt, Günter, and Macher. 3,057,257.
Machielse, Jan: *See*—
Evans, George A., Machielse, Morgan, and Weaver. 3,025,106.
Machine Tool Works Oerlikon Administration Co.: *See*—
Apothéloz, Robert, and Dubach. 3,034,438.
Manz, Samuel, and Linke. 3,059,542.
Manz, Samuel, and Linke. 3,059,543.
Mosle, Ernst. 3,045,553.
Sanger, Raymund, and Pruppacher. 3,056,556.
Schenk, Gustav. 3,016,187.
Stadelmann, Rudolf. 3,045,525.
Wey, Hermann. 3,029,706.
Zimmermann, Ernst. 3,066,862.
Machinecraft, Inc.: *See*—
Butler, Richard K. 3,031,724.
Butler, Richard K. 3,041,677.
Butler, Richard K. 3,042,340.
Cotchett, Louis M. 3,035,314.
Cotchett, Louis M. 3,058,170.
Machinery Center Co., Inc.: *See*—
O'Leary, Paul C. 3,036,661.
O'Leary, Paul C. 3,069,031.
Machinery Development Corp.: *See*—
Kumagal, Harry M., and Shiu. 3,059,388.
Saidel, William R., Selock, and Lee. 3,053,152.
Machinery Service, Inc.: *See*—
Craig, George A. 3,027,689.
Machines Automatiques Modernes (Societe a Responsabilite Ltd.): *See*—
Feissel, Henri G. 3,023,960.
Machines Bull (Societe Anonyme), Compagnie des: *See*—
Donabin, Claude J. 3,043,213.
Feissel, Henri G. 3,041,471.
Feissel, Henri G. 3,044,696.
Herpin, Jean-Claude. 3,017,077.
Koehler, Gerard N. 3,048,749.
Mauduit, André. 3,064,561.
Paillard, Edouard H., and Joly. 3,064,723.
Pinton, Pierre C. 3,018,035.
Machines Electrostatiques, Societe Anonyme de: *See*—
Point, Marcel A. R. 3,063,642.
Point, Marcel A. R., and Morel. 3,039,696.
Machlan, Hamilton A. Adjustable retracting outboard motor bracket. 3,032,304, 5–1–62, Cl. 248—4.
Machler, Raymond C.: *See*—
Armi, Edgar L., Johnson, Machler, and Polster. 3,062,047.
Machlett Laboratories, Inc., The: *See*—
Gavor, Gordon F., Doolittle, and Brunhart. 3,069,548.
Langer, Helmut. 3,056,060.
Rome, Martin, and Jordan. 3,047,758.
Spurck, Richard F. 3,056,739.
Ward, Samuel A. 3,051,781.
Machlis, Jerome, to Motec Industries, Inc. Color bar/dot generator. 3,019,289, 1–30–62, Cl. 178—5.4.
Machol, Guenther K., to International Business Machines Corp. Signal converter. 3,047,853, 7–31–62, Cl. 340—347.
Machovec, Fred J., to Foley Mfg. Co. Lawn mower sharpener. 3,061,980. 11–6–62. Cl. 51—48.
Machover, Carl: *See*—
Saslovsky, Sidney, Machover, and Siff. 3,018,965.
Machta, John T., and C. M. Finigan. Anti-emulsion agents in the separation of olefins. 3,062,907, 11–6–62, Cl. 260—681.5.
Machtle, Fritz, to Fritz Machtle, G.m.b.H. Multiple purpose tool. 3,038,177, 6–12–62, Cl. 7—8.1.
Machtle, Fritz, G.m.b.H.: *See*—
Machtle, Fritz. 3,038,177.
Machu, Friedrich, to O. Ruthner. Process of electrolytically pickling alloy steels. 3,043,758, 7–10–62, Cl. 204—145.
MacHutchin, John G., W. F. Buck, and J. C. Flynn, to United States Radium Corp. Self-luminous signs. 3,038,271, 6–12–62, Cl. 40—130.
Macias, Julian F.: *See*—
Woodson, Thomas T., Martinek, and Macias. 3,044,715.
Maciejczak, Robert B. Billet turner. 3,042,226, 7–3–62, Cl. 214—1.
Maciejowski, John J.: *See*—
Phillips, Harry, and Maciejowski. 3,027,989.
Phillips, Harry, Maciejowski, Shafer, Tucker, and Fuller. 3,018,594.
MacInnes, Hugh, and S. H. Updike, to Thompson Ramo Wooldridge Inc. Bearing for high speed rotating shafts. 3,043,636, 7–10–62, Cl. 308—121.
MacInnes, William F., and H. C. Schafer, to The Fluor Corp., Ltd. Water spray nozzle. 3,061,204, 10–30–61, Cl. 239—500.
MacInnis, Martin B., and A. S. Tulk, to Sylvania Electric Products Inc. Method for producing silicon. 3,055,741, 9–25–62, Cl. 23—223.5.
MacIntyre, David R., and F. K. Schultze. Traffic control barrier. 3,020,023, 2–6–62, Cl. 256—24.
MacIntyre, Robert M., to Thompson Ramo Wooldridge Inc. Drift compensating circuits. 3,070,786, 12–25–62, Cl. 340—347.
MacIsaac, John T., Jr.: *See*—
Greenleaf, Francis D., MacIsaac, and Brey. 3,059,310.
MacIsaac, John T., Jr., and C. B. Sumpter, Jr., to Fieldcrest Mills, Inc. Pile fabric with wefts of different sizes. 3,028,884, 4–10–62, Cl. 139—402.
MacIsaac, John T., Jr., and C. B. Sumpter, Jr., to Fieldcrest Mills, Inc. High speed carpet loom and method of weaving. 3,042,081, 7–3–62, Cl. 139—46.
Maciulis, Anthony V.: *See*—
Duncan, Robert H., Miller, Maciulis, and Fudaley. 3,026,265.
Mack, Bernard, to Plastic-Ware Inc. Two-part molded shoe tree. 3,021,542, 2–20–62, Cl. 12—115.6.
Mack, Charles C. Plasma generator. 3,040,209, 6–19–62, Cl. 315—111.
Mack, Donald R., to General Electric Co. Linearized measuring device. 3,060,743, 10–30–62. Cl. 73—362.
Mack, George M. Adjustable cargo retainer. 3,059,593, 10–23–62, Cl. 105—369.
Mack, Gerry P., to Metal & Thermit Corp. Stable polymers of vinyl chloride and unsaturated organotin compounds. 3,069,394, 12–18–62, Cl. 260—78.5.
Mack, Gerry P., to Metal & Thermit Corp. Organo-tin compounds and their preparation. 3,069,447, 12–18–62. Cl. 260—429.7.
Mack, Gerry P., and E. Parker, to Carlisle Chemical Works, Inc. New organotin derivatives. 3,019,247, 1–30–62, Cl. 260—429.7.
Mack, Gerry P., and E. Parker, to Carlisle Chemical Works, Inc. Stabilized vinyl chloride resin. 3,027,350, 3–27–62, Cl. 260—45.75.
Mack, Grant V., and R. E. Gerhardt, to Reynolds Metals Co. Hollow metal plumbing structure. 3,058,203, 10–16–62, Cl. 29—157.
Mack, Joseph A.: *See*—
Anderson, Edwin V., Mack, and Friberg. 3,034,844.
Mack Trucks, Inc.: *See*—
May, Walter M. 3,055,699.
Mintz, Gerald E. 3,022,088.
Mack, Victor R. Changeable letter signs. 3,059,363, 10–23–62, Cl. 40—140.
MacKay, Allan H., Jr.: *See*—
Rowe, Brian H., and MacKay. 3,056,582.
Mackay, James B., to International Business Machines Corp. Superconductor information transfer circuit. 3,019,333, 1–30–62, Cl. 307—88.5.
Mackay, James B., to International Business Machines Corp. Cryotron switching circuit. 3,023,324, 2–27–62, Cl. 307—88.5.

Mackay, James B., to International Business Machines Corp. Superconductor circuits. 3,053,451, 9–11–62, Cl. 235—175.

Mackay, James B., to International Business Machines Corp. Superconductor pulsing circuit. 3,065,359, 11–20–62, Cl. 307—88.5.

MacKay, John A.: *See*—
Lowdermilk, Ford R., MacKay, J., and M. 3,069,345.

MacKay, Lottie E.: *See*—
Hitchings, George H., Elion and MacKay. 3,019,224.

Mackay, Malcolm J., to Wisconsin Wire Works. Loom beat up mechanisms. 3,017,904, 1–23–62, Cl. 139—191.

MacKay, Mildred J.: *See*—
Lowdermilk, Ford R., and MacKay. 3,069,345.

Mackay Radio & Telegraph Co.: *See*—
Buff, Christopher. 3,048,658.

Mackay, Ralph S., and E. Marg, to The Regents of the University of California. Tonometer. 3,049,001, 8–14–62, Cl. 73—80.

Mackay, Ralph S., Jr. Diving equipment. 3,034,503, 5–15–62, Cl. 128—142.

MacKay, Richard C.: *See*—
Van Dillen, Paul, and MacKay. 3,054,024.

Mackechnie, James G. Improvements in ticket feeding apparatus for hand stapling machines. 3,061,836, 11–6–62, Cl. 1—49.

MacKellar, Alexander C.: *See*—
Nichols, John W. D. L., and MacKellar. 3,056,548.

MacKenzie, David D., to Lockheed Aircraft Corp. Honeycomb fastener. 3,047,926, 8–7–62, Cl. 24—251.

MacKenzie, Fred T.: *See*—
Fitzgerald, Charles F., and MacKenzie. 3,058,439.

Mackenzie, Frederick W. Application of typographic and other designs to showcards, and other articles. 3,055,787, 9–25–62, Cl. 156—235.

MacKenzie, James S.: *See*—
Dege, Gerald J., and MacKenzie. 3,025,134.

Mackey, Andrey V., to H.M.S. Associates, Inc. Wind tunnel. 3,055,212, 9–25–62, Cl. 73—147.

Mackey, Charles W., Jr., to Scovill Mfg. Co. Anti-siphonic device. 3,025,870, 3–20–62, Cl. 137—217.

Mackey, E. Scudder, and R. E. Rice, to General Aniline & Film Corp. Anti-static photographic film. 3,053,662, 9–11–62, Cl. 96—87.

Mackey, Eugene L., to The Yoder Co. Method and apparatus for electric resistance tube welding. 3,017,494, 1–16–62, Cl. 219—67.

Mackey, Eugene L., to The Yoder Co. Ring welding apparatus. 3,059,082, 10–16–62, Cl. 219—9.5.

Mackey, Eugene L., C. J. Bognar, and R. F. Dailey, to The Yoder Co. Rotary high-frequency welding transformer. 3,036,196, 5–22–62, Cl. 219—63.

Mackey, Walter, ¼ to John Karpach, ¼ to Joseph Karpach, and ½ to V. Drobnak. Oil or the like dispensing device. 3,050,217, 8–21–62, Cl. 222—211.

Mackie, Charles G.: *See*—
Corlett, Webster D., and Mackie. 3,034,386.
Corlett, Webster D., and Mackie. 3,060,785.

Mackie, Harry A.: *See*—
Himka, John, Lauer, and Mackie. 3,034,823.

Mackie, James, & Sons Ltd.: *See*—
Hill, Moore. 3,057,021.
Hill, Moore. 3,060,518.
Mackie, John K. P. 3,070,319.

Mackie, John K. P., to James Mackie & Sons Ltd. Textile winding machine. 3,070,319, 12–25–62, Cl. 242—18.

Mackie, William L., to United States of America, Navy. Shock absorbing aircraft arresting hook. 3,045,958, 7–24–62, Cl. 244—110.

Mackin, Ronald J.: *See*—
Burton, John R., and Mackin. 3,028,807.

MacKinnon, Charles E., to International Salt Co., Inc. Salt dissolver. 3,036,896, 5–29–62, Cl. 23—272.6.

Mackintosh, Donald D. Power transmission mechanism. 3,046,804 7–31–62, Cl. 74—120.

Macklin, Charles R., to Goodner Van Engineering Co. Cantilever booth seats. 3,020,087, 2–6–62, Cl. 297—244.

Macklin, David D.: *See*—
Settles, James C., and Macklin. 3,028,019.

Mackniesh, Frank. Trolley assembly. 3,065,715, 11–27–62, Cl. 105—154.

Macks, Elmer F. Conduit. 3,040,760, 6–26–62, Cl. 137—13.

Macks, Elmer F. Fluid supported device. 3,068,960, 12–18–62, Cl. 184—18.

MacLachlan, Alexander, to E. I. du Pont de Nemours and Co. Selective hydrogenolysis. 3,057,790, 10–9–62, Cl. 204—154.

MacLachlan, Ernest E. Charcoal igniting apparatus. 3,060,868, 10–30–62, Cl. 110—1.

MacLaren, Colin. Bottle opening apparatus. 3,037,407, 6–5–62, Cl. 81—3.2.

MacLaren, Donald D., to Esso Research and Engineering Co. Hydrogenation of shale oil. 3,025,230, 3–13–62, Cl. 208—210.

MacLaren, Frederick B., to United Aircraft Corp. Position indicating system. 3,020,527, 2–6–62, Cl. 340—196.

Maclay, William R., to International Business Machines Corp. Apparatus for manifesting intelligence on record media. 3,034,109, 5–8–62, Cl. 340—174.1.

MacLea, William B. Emergency signs for automobiles. 3,024,552, 3–13–62, Cl. 40—129.

Maclean, Cameron H.: *See*—
Smith, Rex, and Maclean. 3,062,122.

Maclean, Duncan: *See*—
McIntyre, James E., and Maclean. 3,055,870.
Munro, Neil, and Maclean. 3,050,533.
Munro, Neil, and Maclean. 3,050,548.

MacLean-Fogg Lock Nut Co.: *See*—
Oakley, Gilbert F. 3,018,740.
Oakley, Gilbert F. 3,018,995.
Oakley, Gilbert F. 3,021,799.
Oakley, Gilbert F. 3,026,821.
Oakley, Gilbert F. 3,068,967.

MacLean, Michael A.: *See*—
Hoffman, George R., and MacLean. 3,025,500.

MacLennan, Alexander M.: *See*—
Cammidis, John C., Neton, and MacLennan. 3,059,235.

MacLeod, David E.: *See*—
McGrath, William L., and MacLeod. 3,045,443.

MacLeod, David E., to Carrier Corp. Ice making apparatus. 3,020,726, 2–13–62, Cl. 62—138.

MacLeod, David E., to Carrier Corp. Ice making. 3,045,445, 7–24–62, Cl. 62—137.

MacLeod, David E., to Carrier Corp. Mounting arrangement for air conditioners. 3,048,095, 8–7–62, Cl. 98—99.

MacLeod, David E., and C. G. Alt, to Carrier Corp. Sealing means for window mounted air conditioning units. 3,019,718, 2–6–62, Cl. 98—94.

MacLeod, Donald, to Tech-Art, Inc. Filled container caser. 3,031,810, 5–1–62, Cl. 53—62.

MacLeod, Donald B.: *See*—
Clark, Harold V., and MacLeod. 3,017,462.

Macleod, Keith, to W. D. Allen Mfg. Co. Connectors for plastic hose. 3,017,203, 1–16–62, Cl. 285—256.

Macleod, Keith, and A. J. Rumsa, to W. D. Allen Mfg. Co. Hose winding machine. 3,069,822, 12–25–62, Cl. 53—21.

MacLeod, Norman A., ½ to I. J. McCullough. Method of making luminescent screens. 3,041,228, 6–26–62, Cl. 156—67.

MacLeod, Norman A., ½ to I. J. McCullough. Luminescent screens and methods of making same. 3,041,456, 6–26–62, Cl. 250—80.

MacLeod, Roderick N., and L. T. Stoyke, to Lear, Inc. Wobble plate fluid motor and single valve means. 3,036,558, 5–29–62, Cl. 121—119.

Maclodyne Corp.: *See*—
Kilham, Peter. 3,016,943.

Mac-Man Sales Co.: *See*—
McNabb, Walter J., Jr. 3,032,154.

MacMillan Bloedel and Powell River Ltd.: *See*—
Hughes, Roger C. 3,040,801.

MacMillan, Cargill, Jr.: *See*—
MacMillan, John H., Jr., and Addicks. 3,015,373.

MacMillan, Charles W., to Lear Mfg. Co. Automobile shock absorber tester. 3,030,796, 4–24–62, Cl. 73—11.

MacMillan, John H., Jr., deceased (J. H. MacMillan, III, C. MacMillan, Jr., and A. J. James, executors), and M. C. Addicks, to Cargill, Inc. Method and structure for storing semi-fluid material. 3,015,373, 1–2–62, Cl. 189—3.

MacMillan, Kenneth T., and E. A. Millhoff, to Wonder Products Co. Frame for mold. 3,015,846, 1–9–62, Cl. 18—26.

MacMillan, Raymond A., to United States of America, Air Force. Phase measuring system. 3,019,390, 1–30–62, Cl. 324—83.

MacMillan, Raymond A., to United States of America, Air Force. Variable A.C. transducer. 3,039,043, 6–12–62, Cl. 323—66.

MacMillin, David M., to Bell & Howell Co. Motion picture devices. 3,021,040, 2–13–62, Cl. 226—91.

MacMillin, David M., to Bell & Howell Co. Control for multi-speed camera. 3,044,347, 7–17–62, Cl. 88—16.

MacMillin, David M., to Bell & Howell Co. Intermittent needle entrapment in an automatic exposure control. 3,062,111, 11–6–62, Cl. 95—10.

MacMullen, Clinton W., and J. Rockett, to Olin Mathieson Chemical Corp. Phosphonate compositions. 3,032,578, 5–1–62, Cl. 260—461.

MacNaughton, Lesley A., and M. J. Wiedemann, to General Motors Corp. Roller forming die. 3,053,304, 9–11–62, Cl. 153—25.

MacNeill, Arthur E. Exchange apparatus. 3,051,316, 8–28–62, Cl. 210—321.

MacNeill, John H., to Soroban Engineering, Inc. High speed punch device. Re. 25,123, 2–13–62, Cl. 234—115.

MacNeill, John H., to Soroban, Inc. Hot wire reader. 3,019,970, 2–6–62, Cl. 235—61.11.

MacNeill, John H., to Soroban Engineering, Inc. Drive mechanism for a tape transport. 3,057,214, 10–9–62, Cl. 74—125.5.

MacNeill, John H., to Soroban Engineering, Inc. Variable venturi carburetor. 3,069,146, 12–18–62, Cl. 261—44.

MacNeill, John H., and R. B. White, Jr., to Soroban Engineering, Inc. Coding keyboard mechanism. 3,069,674, 12–18–62, Cl. 340—365.

MacNeille, Stephen M.: *See*—
Dixon, Edgar O., and MacNeille. 3,065,931.

MacNeille, Stephen M., to American Optical Co. View and range-finding system for cameras. 3,068,772, 12–18–62, Cl. 95—44.

MacNerland, William A.: *See*—
Day, Leslie, and MacNerland. 3,065,522.

Macomber, Inc.: *See*—
Macomber, Stanley. 3,029,914.

Macomber, Stanley, to Macomber, Inc. Laminated tubular section structural members. 3,029,914, 4–17–62, Cl. 189—37.

Macovski, Albert : *See*—
Merrill, John B., and Macovski. 3,054,067.
Schaefer, Louis F., and Macovski. 3,037,071.

Macovski, Albert, to Radio Corp. of America. Chrominance channel control apparatus. 3,070,654, 12–25–62, Cl. 178—5.4.

MacPhee, Kenneth E. : *See*—
Borr, Mitchell, and MacPhee. 3,018,256.

MacPhee, Malcolm, and D. E. Bolger, to International Standard Electric Corp. Manufacture of pure silicon. 3,051,557, 8–28–62, Cl. 23—263.

Macpherson, Alan C., to United States of America, Commerce. Apparatus for calibrating microwave reflectivity coefficient standards. 3,030,577, 4–17–62, Cl. 324—58.5.

MacPherson, Arthur R., and R. R. Turner, to Aerofall Mills Inc. Air classification system. 3,017,993, 1–23–62, Cl. 209—144.

Macpherson, John W., Sr. Cake support. 3,070,236, 12–25–62, Cl. 211—137.

MacPherson, William C. : *See*—
Cheeley, William E., and MacPherson. 3,036,416.

MacPhillamy, Harold B., and R. A. Lucas, to Ciba Corp. Steroids. 3,036,061, 5–22–62, Cl. 260—210.5.

MacPhillamy, Harold B., and R. A. Lucas, to Ciba Corp. Process for the preparation of organic compounds. 3,036,-062, 5–22–62, Cl. 260—210.5.

MacPhun, R. A., Industries, Inc. : *See*—
Umanoff, Martin. 3,019,953.
Umanoff, Martin. 3,048,208.
Umanoff, Martin. 3,048,420.

Macqueen, Kenneth G. Knitting processes and knitting machines. 3,035,426, 5–22–62, Cl. 66—76.

MacRae, Elwin : *See*—
Clark, Harold V., and MacRae. 3,031,535.

Macrae, William K., and W. Jackson, to City Parking Ltd. Spray gun carriers. 3,050,260, 8–21–62, Cl. 239—150.

Macrosonics Corp. : *See*—
Asklof, Sture H. V. 3,026,966.

Macrum, Samuel H., Jr. : *See*—
Atanasoff, John V. and T. B., Beecher, Long Tabler, Macrum, and Selzer. 3,033,366.

MacShane, William L. : *See*—
Glatt, Jack E. 3,041,917.

Macy, Christian D., and P. C. Ludvigson, to Geo. A. Hormel & Co. Machine for removing hides from slaughter animals and the like. 3,046,597 7–31–62. Cl. 17—21.

Macy, James C., to Ideco Inc. Fellicle fastener. 3,022,511, 2–27–62, Cl. 1—68.

Macy, John A., and G. I. H. Larsson, to South Bend Tackle Co., Inc. Spinning reel. 3,034,741, 5–15–62. Cl. 242—84.2.

Macy, Valentine E., Jr. : *See*—
Allen, Earle F. 3,033,226.

Madaffer, Frank. Dispensing device. 3,064,860, 11–20–62, Cl. 222—153.

Madansky, Leslie E., to California Plastick, Inc. Edge-lighted panel assembly. 3,065,335, 11–20–62, Cl. 240—8.16.

Madden, Baxter C., Jr. Towline. 3,058,692, 10–16–62, Cl. 244—3.

Madden, Edward J. Spherical tracking, plotting and projection apparatus. 3,058,239, 10–16–62, Cl. 35—46.

Madden, Frank J. : *See*—
Landmann, Wendell A., and Batzer. 3,047,399.

Madden, James E. : *See*—
Newell, W. J., and Madden. 3,042,537.

Madden, James J., to Bell Telephone Laboratories, Inc. Fabrication of magnetic core structures. 3,031,736, 5–1–62, Cl. 29—155.5.

Maddock, Bruce H., to Union Carbide Corp. Extrusion control. 3,032,822, 5–8–62, Cl. 18—55.

Maddock, Ralph B., to Pako Corp. Film strand rollers for film processing machine. 3,018,935, 1–30–62, Cl. 226—190.

Maddock, Robert W., to Douglas Aircraft Co., Inc. Emergency oxygen release system and coupling. 3,016,061, 1–9–62. Cl. 137—81.

Maddox, James R. : *See*—
Fassero, Anthony T., and Maddox. 3,059,274.

Maddux, Duane C. Toy gun and projectile therefor. 3,050,-893, 8–28–62, Cl. 42—55.

Madej, Edward A. Bottle caps and the like. 3,047,179, 7–31–62, Cl. 215—73.

Madej, Edward A., to Jas. H. Matthews & Co. Mounting for indicia upon a cemetery crypt, monument, vault, and the like. 3,055,132, 9–25–62, Cl. 40—124.5.

Madley, Paul E. : *See*—
Erath, Louis W., Madeley, and Hefer. 3,044,042.

Mader, Albert C. : *See*—
Van Tuyl, John E. 3,042,071.

Mader, Herbert, to Vereinigte Metallwerke Ranshofen-Berndorf Aktiengesellschaft. Process for the recovery of cryolite from waste gases and from the carbon bottom of an aluminum electrolytic furnace. 3,065,051, 11–20–62, Cl. 23—88.

Mader, Paul M., R. D. Nelson, and T. V. Crevling, to Eastman Kodak Co. Yellow filter layers for multi-layer photographic color elements. 3,016,306, 1–9–62, Cl. 117—33.3.

Madera, Edmund J. Rig for ice fishing. 3,030,122, 4–17–62, Cl. 280—12.

Madge, Joachim : *See*—
Bretthauer, Hermann, and Madge. 3,046,863.

Madge, Joseph G., and A. D. Walker, to Ford Motor Co. Glass rolling apparatus. 3,048,214, 8–7–62, Cl. 156—443.

Madill, Norman W. Spar tree. 3,015,471, 1–2–62, Cl. 254—139.1.

Madinaveitia, Juan L. : *See*—
Jones, William G. M., Leigh, and Madinaveitia. 3,035,978.

Madison, Frank J. Material handling conveyor. 3,065,843, 11–27–62, Cl. 198—204.

Madison, Ralph E., to Devoe & Raynolds Co., Inc. Iron-epoxy floors and process for making them. 3,024,711, 3–13–62, Cl. 94—3.

Madison, Ralph E., to Devoe & Raynolds Co., Inc. Cement base paints, etc. 3,063,851, 11–13–62, Cl. 106—9.

Madison Window Products, Inc. : *See*—
Psolka, John W. 3,034,183.

Madland, Glen R. : *See*—
Johnson, Jerome A., and Madland. 3,070,737.

Madlung, Esther. Brush for edentulous mouth. 3,029,809, 4–17–62, Cl. 128—62.

Madnick, Herman : *See*—
Bailey, Theodore L., and Madnick. 3,035,272.

Madonna, Anthony. Sliding door construction for cylindrical containers. 3,053,331, 10–16–62, Cl. 68—139.

Madonna, Anthony J. Automatic drilling appliance feeding attachment. 3,024,671, 3–13–62, Cl. 77—33.5.

Mador, Irving L. : *See*—
Frank, Charles E., Lum, and Mador. 3,067,238.
Leeling, Hans Z., Mador, and Tonne. 3,062,888.
Lum, David W., Koch, and Mador. 3,069,455.
Pritchett, Ervin G., Mador, and Rekers. 3,062,886.

Mador, Irving L., and L. J. Rekers, to National Distillers and Chemical Corp. Preparation of titanous alcoholates. 3,061,623, 10–30–62, Cl. 260—429.5.

Madrod, Edmund S., and F. E. Gibson, to Inland Steel Co. Apparatus for determining the drawing quality of sheet steels. 3,050,991, 8–28–62, Cl. 73—87.

Madsen, Andrew, to Aircraft Engineering and Maintenance Co. Fluorographic system for aerial survey. 3,043,908, 7–10–62, Cl. 178—5.

Madsen, Arthur M., Jr. Automatic dental cooling attachment. Re. 25,130, 2–27–62, Cl. 32—28.

Madsen, Berthel F., to Teletype Corp. Friction type clutch. 3,044,590, 7–17–62, Cl. 192—26.

Madsen, Carl J., and K. W. Schwanekamp, to Westinghouse Electric Corp. Liquid level indicating systems. 3,030,809, 4–24–62, Cl. 73—295.

Madsen, Jens A. W., to Albertson & Co., Inc. Rotary impact wrench mechanism. 3,053,360, 9–11–62, Cl. 192—30.5.

Madsen, Kristian D. : *See*—
Liljeblad, Ragnar, and Madsen. 3,026,256.

Madsen, Walter M., to Baldwin-Lima-Hamilton Corp. Aggregate drying apparatus. 3,024,538, 3–13–62, Cl. 34—135.

Madson, Herman J. Trolling sinker. 3,023,537, 3–6–62, Cl. 43—43.13.

Maduk, Eugene A. : *See*—
Hopping, Warren E., and Maduk. 3,060,115.

Maeda, Hisao. Radio transformer. 3,060,394, 10–23–62, Cl. 336—136.

Maeda, Yutaka. Apparatus and method for imparting twist and crimp to textile yarns. 3,066,473, 12–4–62, Cl. 57—77.4.

Maeder, Arthur : *See*—
Deflorin, Alberto, and Maeder. 3,051,688.
Hiestand, Armin, and Maeder. 3,057,675.
Porret, Daniel, and Maeder. 3,028,426.

Maeder, Arthur, to Ciba Ltd. Aerosol hair dressing composition. 3,025,219, 3–13–62, Cl. 167—87.1.

Maeder, Arthur, to Ciba Ltd. New polymerization products and process for their manufacture. 3,025,265, 3–13–62, Cl. 260—63.

Maeder, Arthur, to Ciba Ltd. New polymerization process of basic compounds. 3,040,012, 6–19–62, Cl. 260—89.7.

Maeder, Arthur, to Ciba Ltd. New polymerization process. 3,043,822, 7–10–62, Cl. 260—89.7.

Maeder, Charles R. : *See*—
Beaujard, Louis, Maeder, and Pinard. 3,048,031.

Maeder, Erwin : *See*—
Bluemenberger, Max, Maeder, and Siegrist. 3,036,084.

Maeder, Henry A., to O. E. Mullins. Automatic chart changer. 3,064,261, 11–13–62, Cl. 346—137.

Maeder, Paul F., to Speidel Corp. Magnetohydrodynamic gyroscope. 3,026,731, 3–27–62, Cl. 74—5.7.

Maehler, Arthur : *See*—
Neuerburg, Willi, Maehler, and Fiedler. 3,049,171.

Maejima, Keiichi : *See*—
Morii, Taro, and Maejima. 3,028,223.

Maerker, Gerhard, and W. S. Port, to United States of America, Agriculture. Synthesis of glycidyl esters. 3,053,855, 9–11–62, Cl. 260—348.

Maerker, Gerhard, and W. S. Port, to United States of America, Agriculture. Process for the hydration of epoxy esters. 3,069,441, 12–18–62, Cl. 260—398.

Maertens, Klaus, H. Funck, and H. Gotz. Footwear with bottom soles made of elastic material. 3,046,679, 7–31–62, Cl. 36—17.

Maertins, Gustave R. Multi-purpose therapeutic attachment for hospital and other beds having side guards. 3,029,447, 4–17–62, Cl. 5—92.

Maestri, Bruno. Apparatus for closing the open end of a bag. 3,055,010. 9–25–62. Cl. 1—329.

Maetzold, Larry R. Device for cleaning golf tees. 3,055,029, 9–25–62, Cl 15—21.
Maffet, Paul H. Toy lariat. 3,050,901, 8–28–62, Cl. 46—51.
Maffii, Giulio : *See*—
Testa, Emilio, Fontanella, and Maffii. 3,028,378.
Testa, Emilio, Fontanella, and Maffii, 3,037,019.
Maffii, Giulio, and U. Teotino, to Lepetit S.p.A. 2-lower alkyl-4,5-dihydro-3-pyridazinone-6-carboxamides and antitussive compositions. 3,069,318, 12–18–62, Cl. 167—55.
Mafrica, Leo, to United States of America, Interior. Automatic batch weighing device for filling or unloading. 3,022,842, 2–27–62, Cl. 177—80.
Magaline, Vincent J. Adjustable sink closure. 3,062,608, 11–6–62, Cl. 312—205.
Magarian, Gerald M., and P. K. Beemer, to Preco Inc. Load dividers for goods containing compartments, such as those of carriers. 3,063,388, 11–13–62, Cl. 105—376.
Magazanik, Louis, to Doray Lamp Co., Inc. Road reflector signal devices. 3,032,183, 5–1–62, Cl. 206—65.
Magazanik, Louis, and D. J. Dover, to Do-Ma Enterprises, Inc. Device for simulating the play of golf. 3,031,889, 5–1–62, Cl. 73—380.
Magazzu, John T., to Container Corp. of America. Container with inner packing. 3,015,428, 1–2–62, Cl. 229—14.
Magee Carpet Co., The : *See*—
Park, Orrin J., and Corner. 3,055,401.
Magee, Ellington M., to Esso Research and Engineering Co. Oxidation of gaseous hydrocarbons to formaldehyde. 3,032,588, 5–1–62, Cl. 260—604.
Magee-Hale Park-O-Meter Co. : *See*—
Hamilton, Robert W. 3,026,983.
Magee, James V. : *See*—
Conn, John B., and Magee. 3,065,048.
Magee, John E., to Otis Elevator Co. Control for an elevator closure. 3,047,096, 7–31–62, Cl. 187—48.
Magee, Philip S. : *See*—
Ferstandig, Louis L., and Magee. 3,039,996.
Magee, Robert C. Game. 3,025,063, 3–13–62, Cl. 273—134.
Mageli, Orville L. : *See*—
Harrison, James B., and Mageli. 3,029,206.
Mageoch, Harry Y., and D. E. Childs, to H. K. Porter Co., Inc. Current collector arm. 3,060,283, 10–23–62, Cl. 191—59.1.
Mager, Eric L., to Sylvania Electric Products Inc. Electroluminescent lamp. 3,043,978, 7–10–62, Cl. 313—108.
Mager, Humphrey I. X., and W. Berends. Method of preparing tetrahydroxy-1,4-dihydropyrazines. 3,024,235, 3–6–62, Cl. 260—250.
Mager, Lincoln. Periodic reversing contactor. 3,056,875, 10–2–62, Cl. 200—165.
Magerle, Karl : *See*—
Imhof, Walter. 3,056,712.
Magerlein, Barney J. : *See*—
Fonken, Gunther S., Hogg, and Magerlein. 3,031,475.
Gutsell, Erwin S., Jr., and Magerlein. 3,025,311.
Hogg, John A., and Magerlein. 3,027,409.
Magerlein, Barney J., R. D. Birkenmeyer, and F. Kagan, to The Upjohn Co. 16-fluoro steroids of the pregnane series. 3,016,392, 1–9–62, Cl. 260—397.45.
Magerlein, Barney J., and F. Kagan, to The Upjohn Co. Organic compounds and process. 3,017,423, 1–16–62, Cl. 260—461.
Magerlein, Barney J., F. Kagan, and C. A. Schlagel, to The Upjohn Co. 17-esters of 6-substituted-11-oxygenated-progesterones. 3,038,914, 6–12–62, Cl. 260—397.45.
Magerlein, Barney J., and A. H. Nathan, to The Upjohn Co. Process for the production of 1-dehydro-progesterone. 3,068,246, 12–11–62, Cl. 260—397.3.
Magerlein, Barney J., R. D. Birkenmeyer, and F. Kagan, to The Upjohn Co. Process for the preparation of 16γ-hydroxylated steroids and novel intermediates. 3,068,251, 12–11–62, Cl. 260—397.45.
Magers, Lloyd E. Dictionary stand. 3,016,650, 1–16–62, Cl. 40—90.
Mages, Alvin E. : *See*—
Vierthaler, Lawrence A., and Mages. 3,025,830.
Magester, Earl H., to General Electric Co. Mixing nozzle. 3,051,455, 8–28–62, Cl. 259—8.
Magg, Alfred, to Zahnradfabrik Friedrichshafen Aktiengesellschaft. Retainer for ball bearings. 3,042,459, 7–3–62, Cl. 308—189.
Maggio, Paul J., and L. W. Davison, 1/10 to Gadget-Of-The-Month Club, Inc. One-hand-operable memorandum holder. 3,026,126, 3–20–62, Cl. 281—44.
Maggiolo, Allison, and A. L. Tumolo, to W. R. Grace & Co. Process for making tricarboxycyclopentaneacetic acid. 3,023,233, 2–27–62, Cl. 260—514.
Maggioni & C. S.p.A. : *See*—
Carissimi, Massimo, and Ravenna. 3,027,302.
Magic Fingers, Inc. : *See*—
Houghtaling, John J. 3,035,572.
Magic Whirl Dispensers, Inc. : *See*—
Jacobs, William H., and Witzel. 3,052,791.
Magill, Donald G., Jr., to Riegel Paper Corp. Method and apparatus for making synthetic fiber paper. 3,052,295, 9–4–62, Cl. 162—314.
Magill, Donald G., Jr., and J. C. Eaton, to Riegel Paper Corp. Synthetic fiber paper and method of making same. 3,057,-772, 10–9–62, Cl. 162—146.
Magill, James M. Athletic training device. 3,061,306, 10–30–62, Cl. 272—59.
Magill, Robert H., and J. S. Page, to Page Oil Tools, Inc. Fluid pressure actuated well shut-off valve. 3,016,955, 1–16–62, Cl. 166—224.
Maginnis, James W., to Bethlehem Steel Co. Grinding method, 3,067,551, 12–11–62, Cl. 51—281.
Magline, Inc. : *See*—
Law, Don C. 3,069,709.
Maglio, Robert A., and W. A. Poole, to General Electric Co. Catalyst decomposition chamber. 3,056,663, 10–2–62, Cl. 23—288.
Magna Mfg. Corp. : *See*—
Fagan, Roscoe. 3,023,448.
Magnaflux Corp. : *See*—
De Forest, Faber. 3,034,334.
Foley, Eugene W. 3,016,487.
Nerwin, Henry N., Jr., and Robinson. 3,065,631.
Magnaguagno, Clenate A., to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Space device for shaping rolls, particularly for use in producing polymerized resin reinforced materials, such as glass fibers. 3,032,452, 5–1–62, Cl. 156—595.
Magnamatic Tool and Engineering, Inc. : *See*—
Bihler, Walter G. 3,036,488.
Magnani, Arthur : *See*—
Julian, Percy L., Huang, and Magnani. 3,030,389.
Julian, Percy L., and Magnani. 3,052,694.
Magnat, Charles W., Jr. Linotype safety device. 3,051,300, 8–28–62, Cl. 199—52.
Magnatta, Angelo. Carton severing instrumentality. 3,065,-540, 11–27–62, Cl. 30—2.
Magnavox Co. : *See*—
Algier, Allen P., Nelson, and Stern. 3,024,982.
Azari, Eric, Gray, Malin, Nelson, and Thompson. 3,029,-021.
Azari, Eric, Mondt, and Malin. 3,069,156.
Azari, Eric, Wiener, and Greenstadt. 3,037,625.
Cornell, John, and Lester. 3,028,547.
Eggman, Max E. 3,018,734.
Evansen, Arthur W. 3,049,346.
Harker, Thomas B., and Nutt. 3,017,086.
Hayes, Robert M., Nelson, Wiener, and Armstrong. 3,021,005.
Herstedt, Adelbert C. 3,017,521.
Monda, Steven M., and Fordeck. 3,033,955.
Nelson, Alfred M. 3,025,056.
Nelson, Alfred M., and Stern. 3,039,681.
Nelson, Alfred M., Stern, and Westermeier. 3,041,066.
Nelson, Alfred M., Stern, and Wiener. 3,016,239.
Nelson, Alfred M., and Wiener. 3,023,895.
Nelson, Alfred M., and Wiener. 3,032,750.
Orner, Allan. 3,067,933.
Peck, Stuart L., and Wilson. 3,016,140.
Poinsot, William B., and Reese. 3,053,951.
Reese, Glenn A. 3,051,806.
Reese, Glenn A. 3,069,682.
Severance, Ralph H. 3,066,540.
Shook, Sheridan R. 3,054,957.
Teetor, Thomas S. 3,020,443.
Wiener, Jerome B. 3,023,894.
Wiener, Jerome B. 3,039,603.
Magne, Frank C. : *See*—
Dupuy, Harold P., Goldglat, and Magne. 3,052,680.
Hedrick, Glen W., and Magne. 3,057,814.
Magne, Frank C., E. L. Skau, and R. R. Mod, to United States of America, Agriculture. Vinyl chloride polymers plasticized with morpholides of the fatty acid constituent of cottonseed oil. 3,066,111, 11–27–62, Cl. 260—30.4.
Magneco Electronics, Inc. : *See*—
Berge, Godshalk. 3,036,008.
Magnefax Corp. : *See*—
Teiser, Sidney, and Sassaman. 3,019,714.
Teiser, Sidney, and Sassaman. 3,028,683.
Magner, James E., R. S. Long, D. A. Ellis, and R. R. Grinstead, to United States of America, Atomic Energy Commission. Preparation of high purity UF4. 3,030,175, 4–17–62, Cl. 23—14.5.
Magner, Philip G., Jr., to The General Tire & Rubber Co. Bonding nylon to steel. 3,047,934, 8–7–62, Cl. 29—149.5.
Magner, Philip G., Jr., to The General Tire & Rubber Co. Method of and apparatus for making a composite cushioning and sealing strip. 3,067,804, 12–11–62, Cl. 156—461.
Magnesium Elektron Ltd. : *See*—
Payne, Ronald J., and Bailey. 3,039,868.
Pitts, Frank. 3,038,796.
Tittle, Kenneth. 3,036,101.
Magnet Cove Barium Corp. : *See*—
Monroe, Kenneth P. 3,034,982.
Monroe, Kenneth P. 3,039,958.
Reddie, William A., and Werlein. 3,034,983.
Reddie, William A., and Werlein. 3,061,542.
Reddie, William A., and Werlein. 3,062,740.
Magnethermic Corp. : *See*—
Ross, Nicholas V., and Vangeloff. 3,031,555.
Magnetic Analysis Corp. : *See*—
Callan, Joseph M., and Spierer. 3,025,460.
Magnetic Seal Corp. : *See*—
Colby, George E. 3,050,319.
Magnetics, Inc. : *See*—
Brandon, James C., Jr., Frank, and Rahiser. 3,018,455.
Eyberger, Harry. 3,063,098.

Magnetrol, Inc.: *See*—
Binford, Benjamin L. 3,046,475.
Binford, Benjamin L. 3,051,805.
Binford, Benjamin L., and Darsch. 3,037,103.
Magnin, Georges, and J. Grimm. Stocking suspender. 3,034,-190, 5–15–62, Cl. 24—247.
Magnus, Alexander B., Jr. Fluid pressurized systems with low temperature rise characteristics. 3,043,104, 7–10–62, Cl. 60—39.28.
Magnus, Alexander B., Jr. Variable output hydraulic system using fixed displacement pump and variable opening venturi pump. 3,043,107, 7–10–62, Cl. 60—52.
Magnus Chemical Co., Inc.: *See*—
Zinty, Marcel J. 3,047,436.
Magnus, Finn H. to Magnus Organ Corp. Reed organ. 3,063,326. 11–13–62, Cl. 84—351.
Magnus Organ Corp.: *See*—
Magnus, Finn H. 3,063,326.
Magnuson, Genevieve I.: *See*—
Daugherty, Ralph K. 3,032,086.
Magnuson, Roy M., and Daugherty. 3,036,419.
Sintetos, Nicholas D. 3,017,913.
Smith, Traver J. 3,016,788.
Magnuson, John E., to Pacific Car and Foundry Co. Planetary driven truck winch. 3,049,340, 8–14–62, Cl. 254—186.
Magnuson, Paul G., to Worcester Tool & Stamping Co., Inc. Fastener. 3,043,616, 7–10–62, Cl. 292—3.
Magnuson, Robert: *See*—
Daugherty, Ralph K. 3,032,086.
Magnuson, Roy M., and Daugherty. 3,036,419.
Sintetos, Nicholas D. 3,017,913.
Smith, Traver J. 3,016,788.
Magnuson, Roland A., to Pacific Car and Foundry Co. Planetary winch. 3,055,237, 9–25–62, Cl. 74—789.
Magnuson, Roy M., deceased (by G. I. Magnuson, executrix), and R. K. Daugherty, ½ to Santa Clara Frosted Foods Co., ¼ to G. I. Magnuson, and ¼ to G. I. and R. M. Magnuson and L. J. Fox, trustees. Bean harvester. 3,036,419, 5–29–62, Cl. 56—1.
Magnuson, Vernon P.: *See*—
Evans, David C., Magnuson, Monroe, and Prothers. 3,025,124.
Magnuson, Vernon P., to The Bendix Corp. Physical displacement register. 3,024,990, 3–13–62, Cl. 235—154.
Magnusson, Haraldur B. Savings and budgeting device. 3,036,757, 5–29–62, Cl. 232—5.
Magnusson, Knut J., to Radio Corp. of America. Electrophotographic developing apparatus. 3,032,009, 5–1–62, Cl. 118—637.
Magoon, George A. Sorting and assembling system. 3,064,-822, 11–20–62, Cl. 211—10.
Magor Car Corp.: *See*—
Stewart, Frederick G., and Warshal. 3,041,099.
Warntz, Richard S. 3,040,679.
Magor, Leslie H., to Aluminum Body Corp. Structural member for vehicle frames. 3,028,191, 4–3–62, Cl. 296—28.
Magos, John P., and P. A. Gaglio, to Crane Co. Actuating mechanism for plumbing fixture. 3,032,778, 5–8–62, Cl. 4—249.
Magos, John P., K. B. Bredtschneider, F. D. Cotterman, W. S. Black, and T. A. Rodda, to Crane Co. Flexible pipe elements. 3,053,554, 9–11–62, Cl. 285—114.
Mag-Powr Games, Inc.: *See*—
Alper, Henry S. 3,056,605.
Lindman, George E. 3,069,166.
Magrane, John K., and R. E. Layman, Jr., to American Cyanamid Co. Unsaturated ether of methylol melamine, and polymers and copolymers thereof. 3,020,255, 2–6–62, Cl. 260—45.3.
Magrauth, Andrew G. Mirror for chest, door, wall, or similar use. 3,018,690, 1–30–62, Cl. 88—97.
Magrauth, Andrew G. Concealed fixture cabinet. 3,062,606, 11–6–62, Cl. 312—41.
Magri, Roberto: *See*—
Pagliarini, Pietro, Magri, and Stefanini. 3,062,853.
Magri, Salvatore J. Water-craft. 3,036,544, 5–29–62, Cl. 115—70.
Magrini, Peter J., Sr.: *See*—
Insolio, Thomas A., Magrini, Carini, and Clements. 3,018,587.
Magsig, Manly A.: *See*—
Yeasting, Maynard C., and Magsig. 3,017,726.
Maguire, Frederick A.: *See*—
Hawthorne, Kenneth B., and Maguire. 3,045,835.
Maguire, Harold D. Mower attachment for tractors. 3,053,-033, 9–11–62, Cl. 56—25.4.
Maguire, Harold D. Banking attachment for tractors. 3,054,461, 9–18–62, Cl. 172—71.
Maguire, Richard G.: *See*—
Gavlin, Gilbert, Klein and Maguire. 3,019,251.
Magyar, Nickolaus W.: *See*—
Rose, Chester J., and Magyar. 3,032,332.
Magyar, Nickolaus W., to United States of America, Navy. Release mechanism. 3,029,735, 4–17–62, Cl. 102—49.
Maha, Otto J., to Parker-Hannifin Corp. Fluid pressure cylinder. 3,043,638, 7–10–62, Cl. 309—2.
Maha, Otto J., to Parker-Hannifin Corp. Fluid pressure cylinder. 3,043,639, 7–10–62, Cl. 309—2.
Mahaffy, Reid A. Packaging machine and method. 3,061,-984, 11–6–62, Cl. 53—22.
Mahan, H. Cramer: *See*—
Briggs, Quentin L. 3,022,966.
Mahan, James F. Safety lock for revolvers. 3,027,674, 4–3–62, Cl. 42—66.
Mahan, John E., to Phillips Petroleum Co. Rocket propellants and their utilization. 3,020,708, 2–13–62, Cl. 60—35.4.
Mahan, John E., to Phillips Petroleum Co. Fast burning fuels. 3,021,238, 2–13–62, Cl. 149—1.
Mahan, John E., and R. P. Louthan, to Phillips Petroleum Co. Thiols of bicyclo[2.2.1]hepta-2,5-diene and method of preparation. 3,019,267, 1–30–62, Cl. 260—609.
Mahan, John E., and H. W. Bost, to Phillips Petroleum Co. Method of propulsion using a monopropellant fuel containing organic sulfonium compounds. 3,023,569, 3–6–62, Cl. 60—35.4.
Mahan, John E., and R. F. Kleinschmidt, to Phillips Petroleum Co. Stabilizing bromo-substituted acetylenic compounds. 3,028,438, 4–3–62, Cl. 260—652.5.
Mahan, John E., and R. E. Stansbury, to Phillips Petroleum Co. Insect combatting. 3,067,091, 12–4–62, Cl. 167—22.
Mahaney, William H., and E. M. Jones, to The Baldwin Piano Co. Device and method for producing code members. 3,040,322, 6–19–62, Cl. 346—33.
Maheo, Henri. Device for collecting oyster seed. 3,029,785, 4–17–62, Cl. 119—4.
Maher, Edward A. Prefabricated curb sections. 3,037,433, 6–5–62, Cl. 94—31.
Maher, Joseph L., and R. F. Baker, to National Tank Co. Motor-compressor unit. 3,045,899, 7–24–62, Cl. 230—239.
Maher, Robert L., to Donald P. Mossman, Inc. Two position switch. 3,024,332, 3–6–62, Cl. 200—153.
Mahler, Charles J.: *See*—
Wells, Bruce C., and Mahler. 3,054,297.
Mahler, Peter A., to Singer-Fidelity, Inc. Method of knitting a two feed stocking. 3,023,594, 3–6–62, Cl. 66—42.
Mahler, Peter A., and R. Peel, to Singer-Fidelity, Inc. Throat plate construction. 3,062,028, 11–6–62, Cl. 66—125.
Mahler, Willi. Method of producing biscuits or like baked products and apparatus for performing the same. 3,050,-017, 8–21–62, Cl. 107—1.
Mahlmeister, James E., to United States of America, Atomic Energy Commission. Nuclear reactor fuel element with improved heat transfer characteristics. 3,028,329, 4–3–62, Cl. 204—193.2.
Mahlmeister, Raymond A., and J. H. Straw, to The Sheffield Corp. Gaging device. 3,028,675, 4–10–62, Cl. 33—172.
Mahn, George R.: *See*—
Zunick, Michael J., and Mahn. 3,034,009.
Mahn, Gunther H.: *See*—
Zerwer, Peter, and Mahn. 3,053,468.
Mahn, Herbert, to Jos. Schneider & Co., Optische Werke. Control member for optical devices. 3,022,874, 2–27–62, Cl. 192—4.
Mahn, Herbert, to Jos. Schneider & Co., Optische Werke. Mechanism for relatively displacing the components of optical objectives. 3,055,048, 8–28–62, Cl. 88—57.
Mahn, Herbert, to Jos. Schneider & Co., Optische Werke. Lens mount for photographic or cinematographic objectives. 3,052,171, 9–4–62, Cl. 95—45.
Mahn, Herbert, to Jos. Schneider & Co., Optische Werk. Photometric system for cinematographic cameras. 3,057,-251, 10–9–62, Cl. 88—16.
Mahn, Herbert, to Jos. Schneider & Co., Optische Werke. Diaphragm-control mechanism, particularly for cinematographic cameras. 3,062,120, 11–6–62, Cl. 95—64.
Mahoff, George A., and L. L. Rice. Quick disconnect segmented tube coupling. 3,048,427, 8–7–62, Cl. 285—81.
Maholm, Kenneth C.: *See*—
Dafforn, Kenneth B., and Maholm. 3,025,005.
Hennis, Earl S., and Maholm. 3,023,932.
Huffman, Russell I., Huffman, and Maholm. 3,027,915.
Maholm, Kenneth C., to Knapp-Monarch Co. Valve system for inflatable safety devices. 3,064,287, 11–20–62, Cl. 9—319.
Mahon, Edward F., and J. C. Blake. Armrest and tray combination. 3,068,048, 12–11–62, Cl. 297—194.
Mahon Hardware Mfg. Co. Ltd.: *See*—
Dubois, Paul R. and M. H. 3,051,976.
Mahon, John H., to Hagan Chemicals & Controls, Inc. Preservation of fish. 3,036,923, 5–29–62, Cl. 99—195.
Mahon, R. C., Co., The: *See*—
Stitt, James R., and Dugan. 3,031,044.
Mahoney, Edward H.: *See*—
Hawkins, James B., Hunsicker, and Mahoney. 3,027,555.
Hunsicker, William R., and Mahoney. 3,027,556.
Mahoney, John J., Jr.: *See*—
Gibby, Richard A., Kahl, and Mahoney. 3,057,957.
Mahoney, John R.: *See*—
Manning, Frank W., Groothuis, Lykins, Mahoney, and Papke. 3,038,997.
Mahoney, Ralph P., to Beloit Iron Works. Coating machine and method using a vibrating fountain with doctor. 3,066,-047, 11–27–62, Cl. 117—120.
Mahoney, Robert J., to Barber-Colman Co. Spooler type winder. 3,042,328, 7–3–62, Cl. 242—35.6.
Mahoney, Thomas P.: *See*—
Bonnafoux, Paul. 3,017,845.
Bonnafoux, Paul. 3,045,280.
Holzapfel, George L. 3,067,020.
Thompson, Floyd L. 3,054,356.

Mahoney, William R., R. E. St. Pierre, and D. T. Dunlap, to Celanese Corp. of America. Processing tow. 3,032,829, 5–8–62, Cl. 19—65.
Mahony, Stephen M., and R. T. Prentice, to Prentice Machine Works, Inc. Transfer mechanism for panels. 3,063,480, 11–13–62, Cl. 143—48.
Mahr, Stanley A. Manure removal apparatus. 3,039,630, 6–19–62, Cl. 214—145.
Maichen, Karl. Infinitely variable epicyclic friction wheel gear. 3,023,642, 3–6–62, Cl. 74—796.
Maichen, Karl. Infinitely variable friction wheel gear. 3,023,644, 3–6–62, Cl. 74—796.
Maico Electronics, Inc.: *See*—
Behymer, Donald J. 3,015,704.
Bloom, Howard W. 3,038,038.
Rose, John F. 3,031,537.
Maiden, Billy G. Cover holder. 3,062,381, 11–6–62, Cl. 211—105.6.
Maiden, Clinton E., and W. F. Schnepple, to Pacific Semiconductors, Inc. Micro-miniaturized transistor. 3,030,562, 4–17–62, Cl. 317—235.
Maiden Form Brassiere Co., Inc.: *See*—
Kaupp, Bette K. 3,015,334.
Maiden Form, Inc.: *See*—
Kaupp, Bette K. 3,026,875.
Maids Development Co.: *See*—
Thompson, Stanley H. 3,034,921.
Maier, Curtis E., and R. M. Brick, to Continental Can Co., Inc. Enamel-powder resist systems. 3,029,155, 4–10–62, Cl. 117—26.
Maier, Elmar, to Contina Bureaux-und Rechenmaschinenfabrik Aktiengesellschaft. Calculating machine. 3,055,584, 9–25–62, Cl. 235—63.
Maier, Erwin: *See*—
Maier, Karl and E. 3,058,228.
Maier, Hartmut W. H, Schuchardt, and E. Kuehner, to Fa. Elba-Werk Ettlinger Baumaschinen- und Hebezeugfabrik G.m.b.H. Apparatus for charging a distributor device for bulk materials. 3,025,980, 3–20–62, Cl. 214—10.
Maier, Henry B. Solid state elapsed time indicator. 3,045,-179, 7–17–62, Cl. 324—68.
Maier, Howard A.: *See*—
French, Hobert W., Jr., Maier, and Brookhart. 3,019,708.
Maier, Karl and E., to Wilhelm Maier & Sohne O.H.G. Method and apparatus for marking the points of application for buttons and buttonholes. 3,058,228, 10–16–62, Cl. 33—190.
Maier, Karl H., to Membranfiltergesellschaft G.m.b.H. Method of continuous manufacture of membrane filters. 3,026,571, 3–27–62, Cl. 18—57.
Maier, Karl W.: *See*—
Goltz, Gordon J., Maier, and Turner. 3,036,307.
Maier, Kenneth D.: *See*—
Boughton, Olin W., De Grave, and Maier. Re. 25,115.
Boughton, Olin W., and Maier. 3,060,801.
Maier, Lorenz, to Kienzle Apparate G.m.b.H., Firma. Accounting machine with punch and printer for cards. 3,034,-426, 5–15–62, Cl. 101—19.
Maier, Ludwig. Process for preparing organophosphorus halides. 3,057,917, 10–9–62, Cl. 260—543.
Maier, Max, Jr. Machine for forming sheet metal. 3,070,145, 12–25–62, Cl. 153—21.
Maier, Richard J., 50% to G. Simon. Clutch. 3,049,207, 8–14–62, Cl. 192—58.
Maier, Siegfried: *See*—
Gassmann, Johannes, and Maier. 3,035,560.
Maier, Vincent P., to United States of America, Agriculture. Sucrose inversion of deglet noor dates. 3,052,550, 9–4–62, Cl. 99—100.
Maier, Walter, and K. Bernklau, to Farbenfabriken Bayer Aktiengesellschaft. Process for the hot stretching of yarns of synthetic materials. 3,018,609, 1–30–62, Cl. 57—157.
Maier, Wilhelm, & Sohne O.H.G.: *See*—
Maier, Karl and E. 3,058,228.
Maier, William. Sectional outlet box. 3,028,989, 4–10–62, Cl. 220—3.94.
Maier, William. Sectional outlet box. 3,028,990, 4–10–62, Cl. 220—3.94.
Maier, William. Electrical outlet box for electrical conductors. 3,029,965, 4–17–62, Cl. 220—3.8.
Maiershofer, Karl M., to G-M Laboratories Inc. Photographic slide trays and means for coupling same. 3,065,874, 11–27–62, Cl. 220—23.4.
Maierson, Theodore: *See*—
Bakan, Joseph A., Striley, and Maierson. 3,020,171.
Mailey, Everett A.: *See*—
Dickey, Charles R., Mailey, and Matthews. 3,062,854.
Maillard, Felix, to Industrial Development Co. (Establishment). Method for producing molded articles of concrete and the like material. 3,034,192, 5–15–62, Cl. 25—155.
Maillard, Frederic G., ½ to Societe Anonyme dite, La Manufacture de Feutres de Mouzon (Anciens Etablissements Roger Sommer & Ses Fils). Apparatus for manufacturing non-woven textile articles. 3,017,918, 1–23–62, Cl. 156—370.
Maillard, Gabriel: *See*—
Joullie, Maurice, Laurre, Maillard, and Muller. 3,033,882.
Maillard, Jacques G. A. E., R. M. Morin, M. M. J. Vincent, and M. M. Benard, to Societe d'Exploitation des Laboratoires Jacques Logeais (S.A.R.L.). Quinazolone anti-inflammatory composition. 3,047,462, 7–31–62, Cl. 167—65.
Maillard, Jacques G. A. E., R. M. Morin, and M. M. M. Benard, to Societe d'Exploitation des Laboratoires Jacques Logeais (S.A.R.L.). Choleretic hydroxycycloaliphatic acid process. 3,065,134, 11–20–62, Cl. 167—55.
Maillart, Edmond B.: *See*—
Bowers, Charles E., Sr., and Maillart. 3,026,523.
Mailliard, Richard P. Mobile load carrying apparatus. 3,027,959, 4–3–62, Cl. 180—22.
Maillot, Roger, to N. Pearlman. Raft. 3,048,859, 8–14–62, Cl. 9—11.
Mailman Bros.: *See*—
Sidney, Milton M., and Goodrich. 3,057,058.
Main, David W. Toy airplane. 3,063,191, 11–13–62, Cl. 46—79.
Main, Merrill M., to Crane Packing Co. Tape dispenser. 3,067,514, 12–11–62, Cl. 30—124.
Main, Merrill M., and E. H. Stubenrauch. Rapid gland adjustment. 3,057,627, 10–9–62, Cl. 277—3.
Mainberger, Walter A.: *See*—
McCluskey, Arthur O., Holloway, Mainberger, and Guy. 3,060,384.
Maingault, Guy L. R.: *See*—
Cherreau, Andre G., Girard, and Maingault. 3,045,335.
Mainone, Neil C.: *See*—
Mainone, Robert H. 3,039,503.
Mainone, Robert H., deceased; N. C. Mainone, special administrator. Means for mounting cutter blades on a cylindrical cutterhead. 3,039,503, 6–19–62, Cl. 144—230.
Mains, Gerald H., L. W. McGinnis, and J. S. Tatnall, to National Vulcanized Fibre Co. Process for strip treatment. 3,022,203, 2–20–62, Cl. 134—15.
Mains, John H., to Swift & Co. Swabbing device for treating leather. 3,039,429, 6–19–62, Cl. 118—109.
Mainzer, Adolf J. Apparatus for candying fruit and the like. 3,044,437, 7–17–62, Cl. 118—26.
Mainzer, Adolf J. Method for candying vegetable material. 3,044,881, 7–17–62, Cl. 99—102.
Maiocchi, Luigi: *See*—
Bottasso, Carlo, Amici, and Maiocchi. 3,047,041.
Maiocchi, Luigi, to Pirella S.p.A. Pneumatic vehicle wheel tire. 3,058,509, 10–16–62, Cl. 152—356.
Maiocchi, Luigi, to Pirelli S.P.A. Pneumatic vehicle wheel tire. 3,062,258, 11–6–62, Cl. 152—356.
Maione, Anthony S., to National Dairy Products Corp. Apparatus for filling containers. 3,064,697, 11–20–62, Cl. 141—83.
Mair, James, to Chicago Bridge & Iron Co. Silencer and heat recovery system. 3,022,985, 2–27–62, Cl. 261—151.
Mairs, Thomas G., to Waldorf Paper Products Co. Display panel supports. 3,058,582, 10–16–62, Cl. 206—44.
Mairs, Thomas G., to Waldorf Paper Products Co. Shipping container blanks. 3,064,875, 11–20–62, Cl. 229—40.
Mairs, Thomas G., and F. W. Locke, to Waldorf Paper Products Co. Egg cases. 3,049,279, 8–14–62, Cl. 229—27.
Mairs, William J., to Acton Laboratories, Inc. Rotary potentiometers. 3,070,768, 12–25–62, Cl. 338—154.
Maisack, Herbert: *See*—
Seefelder, Matthias, and Maisack. 3,023,219.
Maisack, Herbert, D. Peukert, and W. Schoenleben, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of compounds of the pyrimidine. 3,037,977, 6–5–62, Cl. 260—239.75.
Maisch, Oliver, to Tuthill Pump Co. Rotary pumps. 3,029,-740, 4–17–62, Cl. 103—126.
Maisch, Oliver, to Tuthill Pump Co. Internal tube seal. 3,044,496, 7–17–62, Cl. 138—89.
Maisel, Daniel S.: *See*—
Maisel, Jared H., Maisel, and Carrier. 3,048,623.
Maisel, Daniel S., J. F. Ryan, and J. H. Cox, to Esso Research and Engineering Co. Process for the production of hydroacetyl acetone. 3,045,048, 7–17–62, Cl. 260—594.
Maisel, Emanuel N.: *See*—
Struthers, William H. 3,046,004.
Maize, Earl H.: *See*—
Stubberfield, Reuben A. 3,058,580.
Majac, Inc.: *See*—
Croft, George M. 3,044,622.
Majendie, Alastair M. A., R. A. Chorley, and H. Lowe. Indicating instruments. 3,057,322, 10–9–62, Cl. 116—129.
Majendie, Alastair M. A., and J. S. Frankel. Control of aircraft altitude. 3,057,583, 10–9–62, Cl. 244—77.
Majer, Helmut, to Maschinenfabrik, Rissen G.m.b.H. Process for the preparation of paper containers. 3,026,779, 3–27–62, Cl. 93—59.1.
Majerus, John B., and F. M. Totten, to Collins Radio Co. Side lobe suppression network. 3,032,757, 5–1–62, Cl. 343—6.8.
Majerus, Vincent M. Sandwich toaster. 3,068,778, 12–18–62, Cl. 99—375.
Majeske, Henry L., to American Screen Products Co. Hanger assembly for sliding doors. Re. 25,246, 9–25–62, Cl. 16—105.
Majeske, Walter: *See*—
Hausser, Raymond E., Majeske, and Hubbard. 3,028,774.
Severance, Robert H., and Majeske. 3,045,509.
Majestic Co., Inc., The: *See*—
Morgan, Claude A. 3,048,130.
Majewski, Alfred E., to General Motors Corp. Idle speed increasing device. 3,042,134, 7–3–62, Cl. 180—77.
Majewski, Stanley J., to United-Carr Fastener Corp. Closed-entry spring contact. 3,029,411, 4–10–62, Cl. 339—256.
Majewski, Stanley J., to United-Carr Fastener Corp. Twist-lock snap-in contact. 3,031,639, 4–24–62, Cl. 339—217.

Majewski, Stanley J., to United-Carr Fastener Corp. Connector and mounting bracket therefor. 3,034,092, 5–8–62, Cl. 339—119.
Majewski, Stanley J., to United-Carr Fastener Corp. Electrical socket. 3,047,687, 7–31–62, Cl. 200—51.
Majewski, Stanley J., to United-Carr Fastener Corp. Snap-in contact for edge connector. 3,047,831, 7–31–62, Cl. 339—176.
Majka, Edward J.: *See*—
Young, Harland H., Newman, and Majka. 3,055,796.
Majnoni, Massimo. Sleeping car. 3,044,419, 7–17–62, Cl. 105—315.
Majnoni, Stefano: *See*—
Fiirst, Andor, Kyburz, and Majnoni. 3,038,003.
Major, Frederick W.: *See* 2,988,—
Read, Douglas, Cranford, Major, and Smith. 3,057,187.
Major, Randolph T., and K. W. Ohly; said Major assor. to University of Virginia and said Ohly assor. to Cobb Chemical Laboratories. Phenoxyacetamides. 3,027,407, 3–27–62, Cl. 260—559.
Major, Raymond J., Sr. Hand truck with pivoted wheel supports. 3,043,603, 7–10–62, Cl. 280—40.
Majorowicz, Conrad G. Animal feed distributing device. 3,037,611, 6–5–62, Cl. 198—64.
Majors, Jack E. Combination container and brush holder. 3,032,177, 5–1–62, Cl. 206—15.2.
Majors, Paul A., to Hill Top Research Institute, Inc. Apparatus for preparing a fresh culture of microorganisms. 3,068,154, 12–11–62, Cl. 195—54.
Makaroff, Vadim S., and A. E. Jackson. Rotary compressor. 3,044,686, 7–17–62, Cl. 230—147.
Maker, James H., to Associated Spring Corp. Spring device. 3,015,482, 1–2–62, Cl. 267—1.
Maker, James H., to Associated Spring Corp. Spring device. 3,021,129, 2–13–62, Cl. 267—1.
Maki, Charles E., to Textron Electronics, Inc. Apparatus for use in a vibration testing system. 3,015,229, 1–2–62, Cl. 73—71.6.
Maki, Charles E., to Textron Electronics, Inc. Clipping indicator. 3,054,097, 9–11–62, Cl. 340—248.
Maki, Edwin R.: *See*—
Tuten, Gilbert W., and Maki. 3,035,672.
Makin, Jr., to Monsanto Chemical Co. Separation of cyclic and acyclic hydrocarbons by extractive distillation. 3,033,763, 5–8–62, Cl. 202—39.5.
Makin, Earle C., Jr., to Monsanto Chemical Co. Separation of cyclic and acyclic hydrocarbons by extractive distillation. 3,034,969, 5–15–62, Cl. 202—39.5.
Makinson, Thomas. Sand trap for vehicles. 3,020,071, 2–6–62, Cl. 291—11.
Makow, David M.: *See*—
Smyth, Henry L. R., Makow, and Keays. 3,022,418.
Makower, Benjamin, and G. K. Kohn. Stabilized plant nutrient composition. 3,041,160, 6–26–62, Cl. 71—64.
Makower, Samuel: *See*—
Arond, Lester H., Salem, Wechsler, and Makower. 3,017,396.
Makowski, Alexander G., to American Can Co. Injection molding. 3,020,594, 2–13–62, Cl. 18—42.
Makowski, Alexander G., to American Can Co. Loading and unloading of assembly machines. 3,058,150, 10–16–62, Cl. 18—4.
Makowski, Alexander G., and C. H. Hartford, to American Can Co. Spray coating articles. 3,044,894, 7–17–62, Cl. 117—37.
Makowski, Henry S.: *See*—
Cain, William P., Makowski, and Bisio. 3,062,795.
Gardner, Irwin J., Robison, and Makowski. 3,041,304.
Makowski, Joseph V.: *See*—
Hoppe, Lewis T., and Makowski. 3,059,964.
Makray, Paul W. Wall tile. 3,056,235, 10–2–62, Cl. 50—343.
Maksymiak, John, and J. S. Pollock, to Eastman Kodak Co. Web guiding mechanism. 3,021,041, 2–13–62, Cl. 226—199.
Makuh, George, to King Electric Equipment Co. Ignition cam dwell angle measuring. 3,061,772, 10–30–62, Cl. 324—16.
Malachick, Joseph A. Visual dispensers for cereal and the like. 3,057,525, 10–9–62, Cl. 222—482.
Malachowski, Handry J., to Yankee Metal Products Corp. Safety reflector assembly. 3,056,495, 10–2–62, Cl. 206—65.
Malagari, Frank A., Jr., to Allegheny Ludlum Steel Corp. Metal clad molybdenum article. 3,066,393, 12–4–62, Cl. 29—198.
Malakoff, Norman L., and L. B. Nelson, to Socony Mobil Oil Co., Inc. Dairy container coating formulation. 3,060,045, 10–23–62, Cl. 106—270.
Malarik, Roy W.: *See*—
Van Namen, Charles, Jr., and Malarik. 3,025,437.
Malarsky, Frank E. Can crusher. 3,036,517, 5–29–62, Cl. 100—233.
Malashevitz, Alex J., to Formica Corp. Phenol-melamine-formaldehyde resin and process of preparing same. 3,036,-028, 5–22–62, Cl. 260—45.1.
Malashevitz, Alex J., and H. C. Merkt, to Formica Corp. Resinous compositions and process of preparing same. 3,033,823, 5–8–62, Cl. 260—55.
Malaspina, John B.: *See*—
Domingos, Karl K., Jr., Powell, and Malaspina. 3,015,-270.
Malatesta, Alberto, to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Process for the production of tetraethyl lead. 3,045,035, 7–17–62, Cl. 260—436.
Malavazos, Arthur J., to Friden, Inc. Calculating machine. 3,045,907, 7–24–62, Cl. 235—73.
Malavazos, Arthur J., and J. W. Jamieson, to Friden, Inc. Tens transfer mechanism. 3,022,948, 2–27–62, Cl. 235—138.
Malavazos, Arthur J., and J. Urdal, to Friden, Inc. Calculating machine. 3,066,864, 12–4–62, Cl. 235—63.
Malcher, Frank F., to Republic Steel Corp. Portable drum rack. 3,019,916, 2–6–62, Cl. 214—10.5.
Malchow, Emil W. Spark plug cleaner. 3,044,093, 7–17–62, Cl. 15—104.01.
Malco Mfg. Co.: *See*—
Maximoff, Paul A., Krol, and Sola. 3,063,139.
Maximoff, Paul A., Krol, and Sola. 3,067,902.
Olsson, Billy E. 3,030,603.
Olsson, Billy E. 3,044,040.
Olsson, Billy E., and Just. 3,070,772.
Olsson, Billy E., and Kalmar. 3,060,402.
Malcolm, Robert H., and R. J. Brehm, to International Harvester Co. Internal combustion engine. 3,032,022, 5–1–62, Cl. 123—52.
Malcolm, William R.: *See*—
Merz, Rudolf, and Malcolm. 3,056,395.
Malcolm, William R., to Crosman Arms Co., Inc. Gas powered gun. 3,045,659, 7–24–62, Cl. 124—11.
Malcom, Robert, Jr., to Chicago Eye Shield Co. Adjustable head piece. 3,047,876, 8–7–62, Cl. 2—9.
Malcom, Robert Jr., to Chicago Eye Shield Co. Protective face shield and hood. 3,050,736, 8–28–62, Cl. 2—9.
Male, Herman A., to The Gleason Works. Spiral bevel and hypoid gear cutting machine. 3,054,332, 9–18–62, Cl. 90—9.4.
Malecki, Witold, to King-Seeley Thermos Co. Mixture flow type governor and control means therefor. 3,065,812, 11–27–62, Cl. 180—82.1.
Malek, Joseph V., and E. A. Cieniawa, to Amphenol-Borg Electronics Corp. Coaxial connectors. 3,054,981, 9–18–62, Cl. 339—177.
Malek, Walter E. ¼ to R. H. Wendt. Automatic fish feeders. 3,022,767, 2–27–62, Cl. 119—51.11.
Maler, Josef: *See*—
Hanzy, Vladimir, and Maler. 3,043,122.
Malerich, Jerome B., and R. F. Wilde, to General Electric Co. Nickel-cobalt base alloys. 3,027,254, 3–27–62, Cl. 75—171.
Malesko, Joseph. Self-locking adjustable pin. 3,024,510, 3–13–62, Cl. 24—211.
Malesko, Joseph. Solid bead lock pin. 3,046,629, 7–31–62, Cl. 24—211.
Maletz, Leonard H.: *See*—
Curtis, Harold S., Curtis, Divola, Maletz, Morris, and Schiltz. 3,048,356.
Maley, Gerald A., to International Business Machines Corp. Binary trigger having two phase output utilizing and invert logic stages. 3,040,198, 6–19–62, Cl. 307—88.5.
Malgeri, Thomas ½ to J. Cimoli. Charcoal briquet saver hoods. 3,025,848, 3–20–62, Cl. 126—25.
Malia, John P. Drinking straw wrapper. 3,062,551, 11–6–62, Cl. 273—106.5.
Malicay, Leandro J. Method of and apparatus for making seed tape. 3,046,714, 7–31–62, Cl. 53—180.
Malick, Dell M.: *See*—
Akers, Edward G. 3,045,880.
Malick, Emil A., to Phillips Petroleum Co. Protection of a liquid such as a water supply against fallout, dusts, and loss by evaporation. 3,070,419, 12–25–62, Cl. 21—60.5.
Malik, Fred A.: *See*—
Malik, Joseph M. and F. A., and McDonald. 3,016,238.
Malik, Joseph M. and F. A., and McDonald. 3,028,998.
Malik, Joseph M. and F. A., and H. S. McDonald. Roof or wall hatch. 3,016,238, 1–9–62, Cl. 268—102.
Malik, Joseph M. and F. A., and H. S. McDonald. Bulk bin. 3,028,998, 4–10–62, Cl. 222—142.
Malin, Herman J.: *See*—
Azari, Eric, Gray, Malin, Nelson and Thompson. 3,029,-021.
Azari, Eric, Mondt, and Malin. 3,069,156.
Malin, Jack, to Audiographic, Inc. Electronic detection system. 3,041,588, 6–26–62, Cl. 340—213.
Malin, Leonard E., and W. B. Watkins. Apparatus for controlling pickling baths. 3,062,223, 11–6–62, Cl. 134—57.
Maling, George C., Jr.: *See*—
Bobb, Lloyd J., Goldman, and Maling. 3,022,377.
Malinowski, Anthony L.: *See*—
Larsen, Charles T., and Malinowski. 3,060,994.
Malinowski, Richard F.: *See*—
Vodicka, Vincent, and Malinowski. 3,067,352.
Malinowski, Tadeusz, to E. Leitz Canada Ltd. Binocular with improved system of optical adjustment. 3,049,972, 8–21–62, Cl. 88—33.
Maliszewski, Richard K. Denture flask de-waxer. 3,061,898, 11–6–62, Cl. 22—9.
Malkemus, John D., to Jefferson Chemical Co., Inc. Method for conserving water. 3,036,880, 5–29–62, Cl. 21—60.5.
Malkiel, Saul L., to The Bendix Corp. Test apparatus for a rate of climb and dive generating instrument. 3,060,718, 10–30–62, Cl. 73—4.

Malkin, Gabriel: *See*—
Marsh, Lyle, and Malkin. 3,015,415.
Marsh, Lyle, and Malkin. 3,023,936.
Malkomes, Walter, to Koppers Co., Inc. Horizontal coke-oven charging apparatus. 3,036,720, 5–29–62, Cl. 214—18.
Mall, Arthur W., and R. G. Sholeen, to Remington Arms Co., Inc. Saw chain. 3,040,789, 6–26–62, Cl. 143—135.
Mallanik, Allan R., A. C. Neaderland, W. G. Osborn, and E. S. Raila, to Burndy Corp. Electrical connector. 3,053,-930, 9–11–62, Cl. 174—94.
Mallard, Richard H.: *See*—
Foster, Joseph, and Mallard. 3,034,793.
Mallard, Richard H., to Foster-Mallard Ltd. Sound reproducing machines. 3,048,406, 8–7–62, Cl. 274—10.
Mallard, Richard H., to Foster-Mallard Ltd. Sound reproducing machines. 3,055,663. 9–25–62, Cl. 274—10.
Malleable Iron Fittings Co.: *See*—
Jenne, Kenneth C. Re. 25,270.
Mallers, Nick. Audio system for drive-in theatres. 3,060,263, 10–23–62, Cl. 179—1.
Mallery, Paul, to Bell Telephone Laboratories, Inc. Arithmetic carry generator. 3,016,196, 1–9–62, Cl. 235—176.
Mallery, Paul, to Bell Telephone Laboratories, Inc. Binary adders. 3,021,070, 2–13–62, Cl. 235—176.
Mallery, Paul, to Bell Telephone Laboratories, Inc. Analog-digital converter and register. 3,051,941, 8–28–62, Cl. 340—347.
Mallett, John E. Detachable table top. 3,017,219, 1–16–62, Cl. 297—135.
Mallett, John E. Lapel creaser. 3,024,548, 3–13–62, Cl. 38—71.
Mallett, John E., and J. H. Cooper, to The Taylor-Winfield Corp. Apparatus for welding strip. 3,021,416, 2–13–62, Cl. 219—82.
Mallett, Noel P.: *See*—
Waterman, William J., and Mallett. 3,067,110.
Malley, Thomas J., and H. D. Schindler, to American Cyanamid Co. Process for preparing high density fluid alumina base catalyst material. 3,032,514, 5–1–62, Cl. 252—465.
Mallina, Rudolph F.: *See*—
Braun, Herbert J., Mallina, and McKenzie. 3,054,165.
King, Paul E., and Mallina. 3,054,651.
Mallinckrodt, Charles O.: *See*—
Higgins, Larry L., and Mallinckrodt. 3,068,474.
Mallinckrodt Chemical Works: *See*—
De La Mater, George B., and Chapman. 3,023,313.
De La Mater, George B., and Wiegert. 3,036,063.
Hallett, Floyd P. 3,033,757.
Ruhoff, John R., Towle, Moss, and Terry. 3,029,131.
Wallingford, Vernon H. 3,023,232.
Wallingford, Vernon H. 3,048,626.
Wiegert, Philip E. 3,026,351.
Mallinckrodt, George E. Aircraft. 3,036,794, 5–29–62, Cl. 244—12.
Mallinckrodt George E., to Elliot Enterprises, Inc. Rotary engine sealing means. 3,070,074, 12–25–62, Cl. 121—49.
Mallinckrodt, Philip A.: *See*—
Dering, Roger. 3,061,097.
Lamb, Joe H. 3,050,743.
Lamb, Joe H. 3,051,232.
Lamb, Joe H. 3,060,455.
Mallinger, Morton A., to Pan American Petroleum Corp. Method for setting well conduit with passages through conduit wall. 3,057,405, 10–9–62, Cl. 166—25.
Mallison, William C., to American Cyanamid Co. Process for blending a hot polyester resin and polymerizable solvent. 3,036,030, 5–22–62, Cl. 260—45.4.
Mallison, William C., to American Cyanamid Co. Process for preparing resinous materials. 3,039,980, 6–19–62, Cl. 260—22.
Mallman, Estelle: *See*—
Hopp, Philip, and Mallman. 3,029,537.
Mallonee, Clarence, ½ to I. U. Wells. Elevator casters for furniture and the like. 3,026,557, 3–27–62, Cl. 16—33.
Mallonee, Robert E.: *See*—
Sessna, John, and Mallonee. 3,046,229.
Mallory, Clarence C. Governor operated braking system. 3,019,060, 1–30–62, Cl. 303—21.
Mallory, Edwin E.: *See*—
Brundage, James W., and Mallory. 3,065,499.
Ewing, Bruce W., Mallory, and Sapp. 3,051,220.
Mallory, Edwin E., to National Rubber Machinery Co. Bead stitching device for tire building machine. 3,031,353, 4–24–62, Cl. 156—402.
Mallory, Edwin E., and J. W. Brundage, to National Rubber Machinery Co. Tire curing press carcass loader. 3,065,-503, 11–27–62, Cl. 18—17.
Mallory, George R. Door closers. 3,032,806, 5–8–62, Cl. 16—66.
Mallory, Henry R., to P. R. Mallory & Co., Inc. Inverter-charger circuit. 3,017,559, 1–16–62, Cl. 321—45.
Mallory, Kenneth B. Particle accelerator. 3,070,726, 12–25–62, Cl. 315—5.42.
Mallory, P. R., & Co., Inc.: *See*—
Ang, Choh-Yi, and Burkhammer. 3,045,331.
Beggs, Robert K., and Perling. 3,069,757.
Huetten, Clarence. 3,017,474.
Huetten, Clarence. 3,057,978.
Lake, Lelyn D., and Little. 3,029,325.
Lawson, George I. 3,042,846.
Mallory, Henry R. 3,017,559.
Riley, Joseph F. 3,038,242.
Mallouk, Robert S., to E. I. du Pont de Nemours and Co. Composition comprising a fluorocarbon copolymer mixed with a fluoroalcohol ester of a cyclic polycarboxylic acid. 3,030,328, 4–17–62, Cl. 260—31.8.
Mallouk, Robert S., to E. I. du Pont de Nemours and Co. Polytetrafluoroethylene-hexafluoropropylene tetrafluoroethylene copolymer colloidal blend and article thereof. 3,051,-683, 8–28–62, Cl. 260—45.5.
Malloy, John D.: *See*—
Wrigley, Clifford C., and Malloy. 3,033,319.
Wrigley, Clifford C., and Malloy. 3,044,578.
Malloy, John D., to General Motors Corp. Brake cooling fluid pump. 3,033,329, 5–8–62, Cl. 188—264.
Malloy Mfg. Co.: *See*—
Malloy, Percy W. 3,061,043.
Malloy, Percy W., to Malloy Mfg. Co. Speedometer lubricating tool. 3,061,043, 10–30–62, Cl. 184—105.
Malloy, William M., Sr. Feed control for a bird feeder. 3,019,765, 2–6–62, Cl. 119—52.
Malm, Carl J., L. E. Hegdle, and G. C. Gandy, to Eastman Kodak Co. Method of coating partially acetylated paper with plasticized cellulose ester and resulting paper coated with a photographic emulsion. 3,047,391, 7–31–62, Cl. 96—85.
Malm, Carl J., and G. C. Gandy, to Eastman Kodak Co. Treatment of paper composed of partially acylated cellulose fibers. 3,057,755, 10–9–62, Cl. 117—144.
Malm, Carl J., and G. C. Gandy, to Eastman Kodak Co. Manufacture of partially acetylated paper. 3,068,116, 12–11–62, Cl. 117—64.
Malmberg, Sven E. S.: *See*—
Wilhelmsson, Thure A., and Malmberg. 3,023,802.
Malmedie & Co. Maschinenfabrik G.m.b.H.: *See*—
Hilgers, Karl. 3,069,917.
Malmgren, Åke. Transportation vehicle. 3,063,511, 11–13–62, Cl. 180—12.
Malmquist, Alfred B., to E. I. du Pont de Nemours and Co. Dyeing of fluorescent coated fabric. 3,022,189, 2–20–62, Cl. 117—33.5.
Malmquist, Alfred B., to E. I. du Pont de Nemours and Co. Book cover material. 3,041,222, 6–26–62, Cl. 154—52.
Malmquist, Walter A. Hand propelled vehicle. 3,052,486, 9–4–62, Cl. 280—211.
Malmstrom, Carl, and B. O. M. Palm. Oil regulator. 3,016,948, 1–16–62, Cl. 158—36.3.
Malmström, Carl, and B. O. M. Palm. Oil-firing apparatus. 3,040,803, 6–26–62, Cl. 158—28.
Malo, Russell V.: *See*—
Spiller, Charles A., Jr., and Malo. 3,029,278.
Malone, Carl E.: *See*—
Dickey, James W., Jr., and Malone. 3,039,463.
Malone, Carl E., and J. W. Dickey, Jr. Foot exercising device. 3,022,071, 2–20–62, Cl. 272—57.
Malone, George W., Jr.: *See*—
Friend, Nell V., and Malone. 3,041,571.
Malone, Homer F., to Mechanical Products, Inc. Overload current and thermal protection device for motors. 3,064,-100, 11–13–62, Cl. 200—113.
Malone, Howard F.: *See*—
Weiland, Marshall R., and Malone. 3,027,486.
Malone, James P.: *See*—
Falzone, Joseph S. 3,042,014.
Malone, Maurice J.: *See*—
Lagasse, Joseph L., and Malone. 3,017,313.
Malone, Robert E., to The Dole Valve Co. Ice level sensor. 3,016,718, 1–16–62, Cl. 62—137.
Malone, William T., and W. C. Cunningham, to Halliburton Co. Method of sand packing wells in unconsolidated formations. 3,064,730, 11–20–62, Cl. 166—15.
Maloney, Bernard: *See*—
Mann, William, and Maloney. 3,017,961.
Maloney, Bernard, R. G. Altherr, and R. D. Blew, to American Steel Foundries. Liquid cooled disk brake arrangement. 3,022,867, 2–27–62, Cl. 188—264.
Maloney, F. H., Co.: *See*—
Borski, Bernes R. 3,068,617.
Maloney, Frederick G.: *See*—
Christenson, James J., and Maloney. 3,031,203.
Christenson, James J., and Maloney. 3,045,848.
Maloney, Frederick G., to Edwards Equipment Co. Fork lift attachment for tractors. 3,054,520, 9–18–62, Cl. 214—620.
Maloney, James E.: *See*—
Ross, Wilford H., Jr., Maloney, and Stapleton. 3,060,066.
Maloney, John M.: *See*—
Brown, Alvin M., Ayers, Shields, Maloney and Kmiecik. 3,020,834.
Brown, Alvin M., Ayers, Shields, Maloney, and Kmiecik. 3,049,992.
Malonson, Philip J.: *See*—
Dasher, Campbell K. 3,031,101.
Maloof, Ralph P. Height indicating apparatus. 3,048,927, 8–14–62, Cl. 33—209.
Malott, Raymond A., to Shell Oil Co. Method and apparatus for cementing wells. 3,052,298, 9–4–62, Cl. 166—22.
Maloy, John, to Woodall-Duckham Construction Co. Ltd. Process for the production of di-ammonium phosphate. 3,063,802, 11–13–62, Cl. 23—107.
Malpas, Charles H., to American Flange & Mfg. Co. Inc. Pouring spout. 3,063,604, 11–13–62, Cl. 222—525.
Malpas, Delmar G. and D. P. Hypodermic needle sharpening machine. 3,069,814, 12–25–62, Cl. 51—59.

Malpas, Delmar P.: *See*—
Malpas, Delmar G. and D. P. 3,069,814.
Malsbary, James S., to Wagner Electric Corp. Voltage control device. 3,025,453, 3–13–62, Cl. 323—61.
Malsbary, James S., to Wagner Electric Corp. Voltage control device. 3,025,454, 3–13–62, Cl. 323—61.
Malsbary Mfg. Co.: *See*—
Malsbary, Walter F. 3,017,122.
Malsbary, Walter F., to Malsbary Mfg. Co. Steam cleaning machine. 3,017,122, 1–16–62, Cl. 239—135.
Malspeis, Louis: *See*—
Lachman, Leon, and Malspeis. 3,060,089.
Malstrom, Stanley D.: *See*—
Coon, Melvin A., Farnam, Malstrom, and Peterson. 3,037,452.
Malstrom, Sven-Erik: *See*—
Gothberg, Karl E. A., and Malstrom. 3,057,667.
Malt-A-Plenty, Inc.: *See*—
Burt, Harry B., and Walter. 3,036,533.
Burt, Harry B., Jr., and Walter. 3,029,750.
Maltas, John A.: *See*—
Wiggins, Richard F., Maltas, and Gann. 3,017,009.
Wiggins, Richard F., Maltas, and Ullman. 3,017,010.
Maltby, Frederick L. Glue detector. 3,043,993, 7–10–62, Cl. 317—146.
Maltby, Frederick L., and M. Sklaroff, to Robertshaw-Fulton Controls Co. Scanning control system. 3,065,462, 11–20–62. Cl. 340—213.
Maltby, Wilson R.: *See*—
Park, Robert H., and Maltby. 3,017,834.
Maltby, Wilson R. Induction controlled mine firing mechanism. 3,040,658, 6–26–62, Cl. 102—18.
Maltby, Wilson R., and R. H. Park. Induction mine firing and timing system. 3,019,730, 2–6–62, Cl. 102—18.
Malthaner, Sylvester A., to Kelsey-Hayes Co. Brake drum. 3,035,667, 5–22–62, Cl. 188—218.
Malthaner, Sylvester A., and R. L. Jacklin. Splash and spill guard for refrigerator ice cube trays. 3,019,617, 2–6–62, Cl. 62—361.
Malthaner, William A., and J. F. Müller, to Bell Telephone Laboratories, Inc. Data handling equipment. 3,035,252, 5–15–62, Cl. 340—172.5.
Maltz, Edward: *See*—
Glass, Robert R. 3,033,438.
Maluf, Taufik G. Elapsed time computer. 3,044,698, 7–17–62, Cl. 235—83.
Malunowe, Edward W., and A. B. Sweet. Reversible carrier for laundry mangle machines. 3,018,904, 1–30–62, Cl. 214—151.
Malvini, Rocco J. Pool safety device. 3,058,101, 10–9–62, Cl. 340—213.
Malz, Hugo, F. Lober, O. Bayer, and H. Scheurlen, to Bayer Aktiengesellschaft, Farbenfabriken. Process for stabilizing polyolefines. 3,044,981, 7–17–62, Cl. 260—45.9.
Malz, Hugo, E. Kühle, and O. Bayer, to Bayer Aktiengesellschaft, Farbenfabriken. Phosphorus compounds and process for their production. 3,053,876, 9–11–62, Cl. 260—461.
Malz, Hugo, R. Wegler, and G. Unterstenhofer, to Farbenfabriken Bayer Aktiengesellschaft. Acaricidal and ovicidal agents. 3,058,879, 10–16–62, Cl. 167—33.
Malz, Leo, and A. E. Schwaneke, to Dormeyer Corp. Pump for coffee maker. 3,022,720, 2–27–62, Cl. 99—310.
Malzahn, Gus E. Boom construction for ditching machine. 3,028,693, 4–10–62, Cl. 37—86.
Malzahn, Lester W.: *See*—
Frankenfield, Bruce E., Malzahn, and Weigel. 3,026,452.
Mamlok, Henry H.: *See*—
Fisher, Hardin Y., and Mamlok. 3,054,935.
Mammel, Lewis H., to Bell Telephone Laboratories, Inc. Storage reel shifting mechanism. 3,036,786, 5–29–62, Cl. 242—55.13.
Mamo, Anthony C., to Borg-Warner Corp. Hydrodynamic torque transmitting device. 3,023,583, 3–6–62, Cl. 60—54.
Mamo, Anthony C., to Borg-Warner Corp. Hydrodynamic torque transmitting device. 3,027,721, 4–3–62, Cl. 60—54.
Mamo, Anthony C., to Borg-Warner Corp. Transmission. 3,049,027, 8–14–62, Cl. 74—677.
Mamo, Anthony C., and B. Pietraszewski, to Borg-Warner Corp. Rotary pump. 3,058,427, 10–16–62, Cl. 103—136.
Manahan, John F., and E. W. Richter, to Raytheon Co. Temperature compensated resonant cavities. 3,063,030, 11–6–62, Cl. 333—83.
Manahan, Max J., to General Motors Corp. Random sweep generator. 3,046,472, 7–24–62, Cl. 323—89.
Manar Hosiery Mills, Inc.: *See*—
Berg, Chester P. 3,029,622.
Manar, Paul A., to Rockwell Mfg. Co. Valves. 3,030,067. 4–17–62, Cl. 251—214.
Manaresi, Francesco. Filtering device for infusions, pulps and the like. 3,033,104, 5–8–62, Cl. 100—125.
Manas, Herman D., to M.R.M. Co., Inc. Attachment for filling machines. 3,052,269, 9–4–62, Cl. 141—114.
Manas, Vincent T., and G. J. Flegel, to Josam Mfg. Co. Carrier and fitting. 3,020,565, 2–13–62, Cl. 4—252.
Manas, Vincent T., and G. J. Flegel, to Josam Mfg. Co. Stack carrier and bowl connection. 3,054,119, 9–18–62, Cl. 4—252.
Manasse, Fred K.: *See*—
Feder, Herbert S., and Manasse. 3,068,322.
Mancera, Octavio: *See*—
Ringold, Howard J., and Mancera. 3,067,219.
Ringold, Howard J., Mancera, and Rosenkranz. 3,056,-815.
Ringold, Howard J., Mancera, Rosenkranz, and Edwards. 3,019,239.
Ringold, Howard J., Mancera, Rosenkranz, and Edwards. 3,036,096.
Manchester Machine & Tool Co.: *See*—
Novkov, Raymond E. 3,036,363.
Manchester, Michael J.: *See*—
Lesher, John C. 3,051,934.
Mancia, Henri: *See*—
Mengel, Guillaume E., and Mancia. 3,036,317.
Mancini, Alfonso R., to General Dynamics Corp. Adhesion testing machine. 3,019,644, 2–6–62, Cl. 73—150.
Mancke, Edgar B., J. E. Schmuk, and F. M. Temmel, to Bethlehem Steel Co. Treatment of coke oven gas. 3,021,189, 2–13–62, Cl. 23—3.
Mancuso, John J., and L. Z. Raymond, to General Foods Corp. Method of preparing dehydrated eggs. 3,060,038, 10–23–62, Cl. 99—210.
Mandarino, Michael P. Methods and materials for orthopedic surgery. 3,030,951, 4–24–62, Cl. 128—92.
Mandel, Gerald: *See*—
Mones, Arthur H., Mandel, and Sperling. 3,028,252.
Mandel, Gerald, to Hogan Faximile Corp. Electrolytic recording paper. 3,016,338, 1–9–62, Cl. 204—2.
Mandel, Gerald, to Hogan Faximile Corp. Electrolytic recording medium. 3,024,173, 3–6–62, Cl. 204—2.
Mandel, Henri. Window raising apparatus with controlling means. 3,051,472, 8–28–62, Cl. 268—122.
Mandel, Louis: *See*—
Gray, Robert A., Lamb, and Mandel. 3,048,878.
Mandel, Paul, to Compagnie Generale d'Electricite. Radio communication apparatus using diversity method. 3,031,-569, 4–24–62, Cl. 250—20.
Mandelik, Bernard G., to Chemical Construction Corp. Production of sulfur dioxide. 3,059,995, 10–23–62, Cl. 23—177.
Mandelkorn, Joseph, to United States of America, Army. Method of making a gallium sulfide dioxide. 3,070,477, 12–25–62, Cl. 156—17.
Mandell, Linda K.: *See*—
Sietsema, Jacob W., and Mandell. 3,060,170.
Mandell, William B. Interchangeable mixing chamber for douches. 3,051,174, 8–28–62, Cl. 128—274.
Mandell, William B. Dilatable sanitary douche. 3,065,750, 11–27–62, Cl. 128—229.
Manderfeld, Emanuel C., to Mitchell Camera Corp. Drive mechanism for automatic dissolves in motion picture cameras. 3,043,185, 7–10–62, Cl. 88—16.
Mandler, Walter, to Bretag Aktiengesellschaft. Lighting arrangement for projector. 3,043,190, 7–10–62, Cl. 88—24.
Mandra, Charles M. Buoy and method for preparing the same. 3,037,217, 6–5–62, Cl. 9—8.
Mandrel Industries, Inc.: *See*—
Nelson, John R. 3,049,648.
Palmquist, Clarence L. 3,058,588.
Mandrolan, Harold: *See*—
Hamilton, Robert C., and Mandrolan. 3,042,836.
Mandy, Robert R., and W. L. Kibler, to The Delman Co. Litter collecting device. 3,055,493, 9–25–62, Cl. 206—19.5.
Mane, Henry: *See*—
Blau, Herbert, and Mane. 3,027,568.
Manecke, Siegfried E., to Robertshaw-Fulton Controls Co. Thermostatic control device. 3,047,705, 7–31–62, Cl. 219—20.
Manenti, Ciriaco, and E. Giunta. Electrical diagnosticator. 3,064,641, 11–20–62, Cl. 128—2.1.
Manett Enterprises, Inc.: *See*—
Barrett, La Vern H. 3,016,665.
Maney, Francis J. to Emerson-White-Rodgers Co. Oil burner and control system therefor. 3,060,997, 10–30–62, Cl. 158—28.
Maney, William D. Safety attachment for valves. 3,054,303, 9–18–62, Cl. 74—504.
Manfre, Antonio: *See*—
Garbarino, Edwin J., and Manfre. 3,043,550.
Manfreda, Alfred: *See*—
Bidlingmaier, Meinrad, Schittko, and Manfreda. 3,041,-532.
Manganello, Samuel J., and J. E. Steiner, to United States Steel Corp. Alloy steel for forgings. 3,038,797, 6–12–62, Cl. 75—128.
Manganello, Samuel J., and M. H. Pakkala, to United States Steel Corp. Austenitic steel generator rings and steel therefor. 3,062,692, 11–6–62, Cl. 148—38.
Manganello, Samuel J., and M. H. Pakkala, to United States Steel Corp. Nonmagnetic generator ring forgings and steel therefor. 3,065,069, 11–20–62, Cl. 75—126.
Manganese Chemicals Corp.: *See*—
Welsh, Jay Y. 3,065,155.
Welsh, Jay Y., Milberg, and Peterson. 3,018,233.
Manganese Steel Forge Co.: *See*—
Doepken, Herbert C. 3,048,505.
Mangano, John. Chess game. 3,039,775, 6–19–62, Cl. 273—136.
Mangels, Erwin G., to Chicago, Rock Island and Pacific Railroad Co. Retractable support. 3,035,801, 5–22–62, Cl. 248—119.

Mangham, Jesse R.: *See*—
Ashby, Eugene C., Foster, Mangham, and Pearson. 3,020,298.
Boyer, William P., Mangham, and Melton. 3,027,348.
Manghise, Frank V. Clothes dryer support. 3,032,149, 5–1–62, Cl. 189—29.
Mangis, Elmer F. Stone facing machine. 3,042,018, 7–3–62, Cl. 125—23.
Mangold, Regina: *See*—
Schweitzer, Gerhard. Re. 25,256.
Mangravite, George H., to Twin Trees Gardens, Inc. Preformed bottle closure. 3,070,251, 12–25–62, Cl. 215—48.
Mangus, Nicholas J., Jr.: *See*—
McClusky, Lonnie N., McKnight, and Mangus. 3,023,661.
Maniere, Maurice A. F. J., and R. S. Benoit-Gonin, to Lignes Telegraphiques & Telephoniques. Frequency and phase shift system for the transmission of coded electric signals. 3,023,269, 2–27–62, Cl. 178—2.
Manintveld, Jan A.: *See*—
Goorden, Jan, and Manintveld. 3,062,691.
Manion, Jean P., to Olin Mathieson Chemical Corp. Manufacture of hydrazine. 3,020,223, 2–6–62, Cl. 204—177.
Manitowoc Engineering Corp.: *See*—
Beduhn, Daniel E., and Wernecke. 3,020,214.
Manivannan, Krishnan: *See*—
Chipalkatti, Vasant B., and Manivannan. 3,032,889.
Chipalkatti, Vasant B., and Manivannan. 3,042,480.
Manke, Arthur G., and J. I. Rhodes, to General Electric Co. Receiving system. 3,035,171, 5–15–62, Cl. 250—20.
Mankki, Hanns, and R. M. Wolaver, to Central Products Co. Crushing mechanism. 3,062,131, 11–6–62, Cl. 100—233.
Mankowich, Abraham, to United States of America, Army. Detergent compositions for removing silicone grease. 3,069,360, 12–18–62, Cl. 252—109.
Mankowich, Ivan, F. P. Chiavetta, and R. A. Chartier, to United States Rubber Co. Polymerization of monoolefins in the presence of comminuted vulcanized rubber. 3,042,-634, 7–3–62, Cl. 260—4.
Mankowich, Ivan, and R. A. Chartier, to United States Rubber Co. Composition comprising polyvinyl chloride clay and the reaction product of a haloisilane and an alcohol. 3,053,791, 9–11–62, Cl. 260—41.
Mankowsky, Vincent J.: *See*—
Sommer, Gordon M., and Mankowsky. 3,021,146.
Manley, Brian W., and B. T. Murphy, to North American Philips Company, Inc. Permanent magnet systems. 3,021-453, 2–13–62, Cl. 317—200.
Manley, John P., and H. A. Norberg. Picnic grill. 3,045,660, 7–24–62, Cl. 126—30.
Manley, Oscar P.: *See*—
Petritz, Richard L., Manley, and Varela. 3,067,283.
Manly, Donald G.: *See*—
Dunlop, Andrew P., and Manly. 3,020,291.
Dunlop, Andrew P., and Manly. 3,030,430.
Dunlop, Andrew P., Manly, and O'Halloran. 3,065,243.
Manly, Donald G., to The Quaker Oats Co. Hydrogenation of pyrans and furans. 3,021,342, 2–13–62, Cl. 260—345.1.
Manly, Donald G., to The Quaker Oats Co. Hydrogenation process. 3,021,343, 2–13–62, Cl. 260—345.1.
Mann, Alfred E., to Textron Electronics, Inc. Automatic sorting system. 3,064,136, 11–13–62, Cl. 250—223.
Mann, Anna F. Bird repellant. 3,051,617, 8–28–62, Cl. 167—46.
Mann, Ann L. P. Mop squeezing funnel. 3,037,234, 6–5–62, Cl. 15—263.
Mann, David J., and H. C. Kaufman, to Thiokol Chemical Corp. Decaborane recovery. 3,037,846, 6–5–62, Cl. 23—204.
Mann, Dennis C. M.: *See*—
Smith, Robert E., Mann, and Bevis. 3,066,085.
Smith, Robert R., Mann, and Logie. 3,066,115.
Mann, Henry, to Bell Telephone Laboratories, Inc. Conversion between analog and digital information on a piecewise-linear basis. 3,015,815, 1–2–62, Cl. 340—347.
Mann, Henry, to Bell Telephone Laboratories, Inc. Testing the performance of PCM receivers. 3,057,972, 10–9–62, Cl. 179—175.
Mann, Henry, and J. S. Mayo, to Bell Telephone Laboratories, Inc. Synchronization of pulse communication systems. 3,057,962, 10–9–62, Cl. 179—15.
Mann, Jabez H., to Bowmar Instrument Corp. Revolution counter. 3,050,250, 8–21–62, Cl. 235—144.
Mann, John E., to Leach Corp. Time delay circuit. 3,045,150, 7–17–62, Cl. 317—148.5.
Mann, John P.: *See*—
Fabian, Francis G., Jr., Mann, Knippenberg, and Wainerdi. 3,049,617.
Larson, Arne V., Marshek, Putzer, Schroeder, Wright, and Mann. 3,023,826.
Risley, Robert E., and Mann. 3,045,512.
Mann, Joseph K., and C. H. Ward, to Varian Associates. High frequency tube apparatus. 3,058,026, 10–9–62, Cl. 351—5.48.
Mann, Julius W., and G. F. Russell. Radio-frequency edge-gluing process. 3,021,248, 2–13–62, Cl. 156—274.
Mann, Julius W., and G. F. Russell. Process of finger joint end gluing. 3,046,181, 7–24–62, Cl. 156—274.
Mann, Leonard J., and J. J. O'Connell, to General Motors Corp. Refrigerator with defrost means. 3,018,637, 1–30–62, Cl. 62—155.
Mann, Leonard J., E. C. Armentrout, and J. J. O'Connell, to General Motors Corp. Refrigerating apparatus. 3,027,-732, 4–3–62, Cl. 62—187.
Mann, Leonard J., and C. H. Wurtz, to General Motors Corp. Refrigerating apparatus with defrosting means. 3,031,859, 5–1–62, Cl. 62—156.
Mann, Leonard J., and J. J. O'Connell, to General Motors Corp. Refrigerating apparatus with frost free compartment. 3,050,956, 8–28–62, Cl. 62—283.
Mann, Leonard J., and J. J. O'Connell, to General Motors Corp. Single evaporator two-compartment refrigerator. 3,050,961, 8–28–62, Cl. 62—419.
Mann, Neal E. Wall bracket and shelf combination. 3,048,-279, 8–7–62, Cl. 211—90.
Mann, Ralph J., and R. W. Noon, to British Celanese Ltd. Apparatus for the treatment of textile materials. 3,016,728, 1–16–62, Cl. 68—177.
Mann, Raymond R. Photography means and method. 3,021,-769, 2–20–62, Cl. 95—1.1.
Mann, Robert L.: *See*—
McGuire, James M., and Mann. 3,018,220.
Mann, Robert L., and W. F. Jensen. Method and apparatus for mounting mobile aquatic creatures. 3,040,980, 6–26–62, Cl. 233—98.
Mann, Roy E. Window rain guard and ventilator. 3,046,868, 7–31–62, Cl. 98—98.
Mann, Stuart N., to The Hard Mfg. Co. Restraining structure for beds. 3,055,020, 9–25–62, Cl. 5—331.
Mann, Stuart N., and A. B. Daly, to Hard Mfg. Co. Bed construction. 3,050,744, 8–28–62, Cl. 5—63.
Mann, William, and B. Maloney, to American Steel Foundries. Combination brake. 3,017,961, 1–23–62, Cl. 188—57.
Mann, William F.: *See*—
Barnes, Robert S., Jr., and Mann. 3,032,502.
Manna, Silvano A., to Diamond National Corp. Stabilizing ring assembly. 3,034,636, 5–15–62, Cl. 198—158.
Manne, Moe, and H. Peterson. Ring with expandable, separable self-contained shank. 3,017,754, 1–23–62, Cl. 63—15.45.
Manne, Richard S.: *See*—
Gordon, Charles W., Manne, and Morrow. 3,052,625.
Mannella, Ercole, to Rodi & Wienenberger Aktiengesellschaft. Two layer expansible linkage having resilient connectors. 3,063,238, 11–13–62, Cl. 59—79.
Mannesmann Aktiengesellschaft: *See*—
Naeser, Gerhard. 3,019,487.
Osterloh, Hans, Vossen, and Zumbroich. 3,041,077.
Stellmacher, Wilhelm. 3,069,298.
Manney, Charles J., to Columbus McKinnon Corp. Surge car. 3,064,837, 11–20–62, Cl. 214—83.36.
Mannhardt, Heinz-Jurgen: *See*—
Bork, Karl-Heinz, Bruckner, Mannhardt, and von Werder. 3,064,015.
Mannhardt, W., & Son: *See*—
Mannhardt, Wilbert P. 3,057,511.
Mannhardt, Wilbert P., to W. Mannhardt & Son. Bag dispenser. 3,057,511, 10–9–62, Cl. 221—75.
Mannheim, Guenther, to Oliver Corp. Semi-mounted farm implement with automatically steered rear wheel. 3,061,020, 10–30–62, Cl. 172—285.
Mannik, Kalle. Devices for dispensing objects from a container. 3,021,981, 2–20–62, Cl. 221—202.
Manning, Bernard, to United States of America, Air Force. Production of ultra-pure silicon or germanium. 3,043,667, 7–10–62, Cl. 23—223.5.
Manning, Charles H.: *See*—
Byars, George W. 3,028,210.
Manning, David T.: *See*—
Cox, Eugene F., Manning, and Stansbury. 3,069,468.
Stansbury, Harry A., Jr., and Manning. 3,068,287.
Manning, Dennis J., Gas leak detection apparatus. 3,028,-450, 4–3–62, Cl. 179—1.
Manning, Emmett C.: *See*—
Rumsey, Rollin D., and Manning. 3,028,814.
Manning, Frank W., S. E. Groothuis, J. H. Lykins, J. R. Mahoney, and D. M. Papke, to United States of America, Atomic Energy Commission. Area radiation monitor. 3,049,597, 8–12–62, Cl. 250—83.3.
Manning, Fred W. Nonwoven fabrics. 3,024,149, 3–6–62, Cl. 156—28.
Manning, George: *See*—
Charlton, Richard E., Jr., Manning, and Payne. 3,052,-928.
Manning, Grant S. Vibration eliminating attachment for steering wheels. 3,063,304, 11–13–62, Cl. 74—557.
Manning, Harry F., to Talon, Inc. Automatic lock slider for slide fasteners. 3,016,592, 1–16–62, Cl. 24—205.14.
Manning, John A., Paper Co., Inc.: *See*—
Doggett, Roger H., Hervey, and Lanyon. 3,019,138.
Manning, Maxwell & Moore: *See*—
Burrows, Lewis M. 3,046,026.
Cole, Leslie A., Jr. 3,031,540.
Du Bois, Robert C. 3,026,611.
Kachinskas, Gerald K. 3,062,344.
Kasdorf, Earl W., and Fujioka. 3,021,963.
Kittle, Keith B., and Richter. 3,033,383.
Minty, John E. 3,018,902.
Minty, John E., and Stevens. 3,021,962.
Richter, Walter E. 3,017 958.
Smith, Ralph E. 3,032,016.
Sorchy, Anthony J. 3,028,512.
Sorchy, Anthony J. 3,032,667.

Manning, Maxwell & Moore: *See*—Continued
Stevens, Howard C. 3,030,076.
Stevens, Howard C., Jr. 3,047,114.
Stevens, Howard C., Jr. 3,048,865.
Stevens, Howard C., Jr., and Paulssen. 3,049,242.
Stone, Carl F. 3,061,109.
Manning, Raymond N.: *See*—
Drakeford, George E., and Manning. 3,047,450.
Manning, Richard L. Knife sheath. 3,044,673, 7–17–62, Cl. 224—2.
Manning, Walter H.: *See*—
Woolston, Daniel D., Miraldi, Manning, and Aucremanne. 3,070,773.
Manning, William O., to Holley Carburetor Co. Adjustable idle air bypass. 3,058,725, 10–16–62, Cl. 261—23.
Manning, William O., Jr., to Holley Carburetor Co. Ignition contact set. 3,048,671, 8–7–62, Cl. 200—30.
Mannisto, Orville H.: *See*—
Bobalek, Edward J., Klasek, and Mannisto. 3,048,328.
Mannix Co. Ltd.: *See*—
Christoff, James W. 3,020,853.
Christoff, James W. 3,054,359.
Manostat Corp.: *See*—
Gilmont, Roger. 3,035,600.
Manowitz, Milton, and W. S. Gump, to The Giraudan Corp. Antibacterial textile fabrics. 3,061,469, 10–30–62, Cl. 117—138.5.
Mans, Derk B., to Corode Electrochemie S.p.r.l. Machine for immersing work-pieces in containers. 3,062,225, 11–6–62, Cl. 134—89.
Mansaver Industries, Inc.: *See*—
Gris, Conrad D. 3,046,046.
Nemeth, Otto R. 3,018,976.
Mansen, Carl H. Folding trailer. 3,050,331, 8–21,62, Cl. 296—27.
Mansfield Industries, Inc.: *See*—
Nemeth, Otto A. 3,069,968.
Mansfield, Ralph: *See*—
Straub, Melvin J., Shortell, Lobash, Doying, and Jounen. 3,061,909.
Mansfield, Richard L., to Union Carbide Corp. Fire tube furnace and method for baking articles. 3,048,382, 8–7–62, Cl. 263—41.
Mansfield, Sanford, to Continental Can Co., Inc. Bottle carton. 3,066,795, 12–4–62, Cl. 206—65.
Mansfield Sanitary Inc.: *See*—
Smith, Harry F. 3,048,187.
Mansfield, Walter O.: *See*—
Ross, Max A., and Mansfield. 3,034,410.
Mansfield, Wilfred P., to The British Internal Combustion Engine Research Association. Internal combustion engines and pistons therefor. 3,038,458, 6–12–62, Cl. 123—78.
Mansoff, Arthur P. Internal combustion engine. 3,053,342, 9–11–62, Cl. 184—6.
Manson, Andrew J., to Sterling Drug Inc. Process for reduction of Δ^4-androstene [3,2-c] pyrazole compounds. 3,030,358, 4–17–62, Cl. 260—239.5.
Manson Laboratories, Inc.: *See*—
Barton, Martin L., and Shapiro. 3,031,527.
Tulgan, Stanley S., and Shapiro. 3,064,215.
Tykulsky, Alexander, Shapiro, and Tulgan. 3,031,619.
Manson, Morris, to Corax Corp. Slide brackets. 3,022,129, 2–20–62, Cl. 312—343.
Manson, Peter S.: *See*—
Slaats, Matthew A., and Manson. 3,066,188.
Mansor, Leo, to Edgewood Laboratories, Inc. Sunburn preventive and burn remedy. 3,019,165, 1–30–62, Cl. 167—65.
Manspeaker, Robert O., ½ to M. Keathley, Sr. Pie making machine. 3,046,911, 7–31–62, Cl. 107—1.
Månsson, Bo G. E., and A. A. U. Lundgren, to Banco, Aktiebolaget. Centrifugal air classifier. 3,036,709, 5–29–62, Cl. 209—144.
Mantchev, Marco I. Machine for making filter units for cigarettes. 3,064,541, 11–20–62, Cl. 93—1.
Mantel, Wilhelm: *See*—
Wolff, Lothar, and Mantel. 3,035,154.
Mantelet, Jean. Citrus fruit reamer. 3,016,075, 1–9–62, Cl. 146—3.
Mantell, Russell M., and J. M. Hoyt, to Minnesota Mining and Mfg. Co. Process utilizing carbon disulfide in aqueous emulsion polymerization of fluorinated monoolefins. 3,043,-823, 7–10–62, Cl. 260—92.1.
Mantell, Stanley, and M. S. Gilbert, to Royal McBee Corp. Packaging method and apparatus. 3,033,358, 5–8–62, Cl. 206—46.
Manteris, Nick P. Portable barbecue machine. 3,017,819, 1–23–62, Cl. 99—421.
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Cortiss, Warren W. 3,043,773.
Manteuffel, Allan A., and W. W. Cortiss, to The Pure Oil Co. Extreme pressure lubricant additive and lubricant composition. 3,062,743, 11–6–62, Cl. 252—46.7.
Manteuffel, Erich W., to General Electric Co. Direct-current charged magnetic modulator. 3,015,739, 1–2–62, Cl. 307—88.5.
Manteuffel, Erich W., to General Electric Co. Direct current driven magnetic amplifier. 3,029,376, 4–10–62, Cl. 321—25.
Manteuffel, Erich W., to General Electric Co. Magnetically regulated power supply. 3,037,160, 5–29–62, Cl. 323—56.
Mantey, Raymond N.: *See*—
Weibel, John, Jr., and Mantey. 3,044,682.
Manthey, Carleton J., to Central States Paper & Bag Co. Sheet cutting and delivery units. 3,053,128, 9–11–62, Cl. 83—110.
Manthey, Rudi, to Telefunken Patentverwertungs-G.m.b.H. Directional antenna arrangement. 3,032,761, 5–1–62, Cl. 343—758.
Manthos, Atlee G. Cartridge magazine conversion. 3,019,542, 2–6–62, Cl. 42—18.
Mantua Metal Products Co., Inc.: *See*—
Lingard, Harold A. 3,024,924.
Manufacture des Montres Universal Perret Freres: *See*—
Bandi, Fred. 3,029,592.
Manufacturers Supplies Co.: *See*—
Beck, Edwin H. 3,043,126.
Manvell, Theodore J. A.: *See*—
Dobson, Frank E., and Manvell. 3,015,155.
Many, Abraham, and J. Oroshnik, to Sylvania Electric Products Inc. Testing of semiconductors. 3,039,056, 6–12–62, Cl. 324—158.
Manyik, Robert M.: *See*—
Wilson, Thomas P., Hurley, and Manyik. 3,053,916.
Manz, August F., to Union Carbide Corp. Work-in-circuit consumable electrode arc welding. 3,051,828, 8–28–62, Cl. 219—121.
Manz, August F., to Union Carbide Corp. Electric arc torch starting. 3,051,829, 8–28–62, Cl. 219—131.
Manz, August F., C. Hopkins, and D. W. B. Peterson, to Union Carbide Corp. Power supply for electric welding. 3,054,884, 9–18–62, Cl. 219—131.
Manz, Curtis T. Bench mount for locking jaw pliers. 3,024,018, 3–6–62, Cl. 269—71.
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Manz, Samuel, and J. Linke, to Machine Tool Works Oerlikon, Administration Co. Device for the retention and ignition of rocket projectiles. 3,059,543, 10–23–62, Cl. 89—1.7.
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Manzo, Richard L., and T. W. St. John, to Great Northern Paper Co. Suction roll cleaner. 3,067,445, 12–11–62, Cl. 15—104.07.
Mapes, Daniel, A. Orsini, and R. W. Heidersberger, to Specialties Development Corp. Fuel cartridge assembly for airborne power units. 3,055,353, 9–25–62, Cl. 222—95.
Mapes, Charles R. Garment-refurbishing case. 3,055,130, 9–25–62, Cl. 38—112.
Mappin, Dorothy: *See*—
Mappin, Walter L., and D. 3,055,382.
Mappin, Walter L., and D. Umbrella. 3,055,382, 9–25–62, Cl. 135—34.
Mapson, Donald L., to M & D Store Fixtures, Inc. Method of making ribbed display panel. 3,015,296, 1–2–62, Cl. 113—116.
Maragliano, Domenico, and F. Denti, to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Method of making bulky continuous filament yarns of isotactic polyolefins. 3,019,507, 2–6–62, Cl. 28—72.
Maraman, William: *See*—
Reavis, James G., Leary, and Maraman. 3,049,423.
Reavis, James G., Leary, and Maraman. 3,063,829.
Maran, Anthony G.: *See*—
Meyer, Henry L., and Maran. 3,037,306.
Maranca, Gustavo. Process to increase the cellular permeability of vegetal matters. 3,034,900, 5–15–62, Cl. 99—105.
Marano, Herbert W., to Wilson Jones Co. Collapsible storage file. 3,023,065, 2–27–62, Cl. 312—111.
Marantette, Ruth B.: *See*—
Marantette, William F. and R. B. 3,059,236.
Marantette, William F. and R. B., to Akron Standard Mold Co. Control system. 3,059,236, 10–16–62, Cl. 346—8.
Marascia, Frank J.: *See*—
Schoen, Geza, and Marascia. 3,030,383.
Marasso, Fred D., to American Machine & Foundry Co. Pan loading device. 3,058,614, 10–16–62, Cl. 221—9.
Marateck, Harold: *See*—
Marateck, Jack M. and H. 3,061,395.
Marateck, Jack M. and H. Knock-down chest of drawers, or the like. 3,061,395, 10–30–62, Cl. 312—257.
Marathon Electric Mfg. Corp.: *See*—
Motten, Roger H., Jr. 3,057,975.
Maraud, Joseph. Miniature tennis game. 3,041,073, 6–26–62, Cl. 273—85.
Marban, Julian G. Writing instrument. 3,023,736, 3–6–62, Cl. 120—42.16.
Marban, Julian G. Writing instrument. 3,023,737, 3–6–62, Cl. 120—42.16.
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Nagy, Stephen J. 3,030,165.
Marbet, Roman, and G. Saucy, to Hoffmann-La Roche Inc. Preparation of unsaturated ketones. 3,029,287, 4–10–62, Cl. 260—587.
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Marbill Co.: *See*—
Catalfano, Frank P., and Rodrigues. 3,054,126.
Gianola, Salvatore V. 3,027,659.
Smith, Maurice C., Jr. 3,021,572.

Marble, Chester B.: *See*—
Albinger, Harry, Jr., and Marble. 3,043,948.
Marble, Chester B., to General Electric Co. Illuminated dial face. 3,043,038, 7–10–62, Cl. 40—130.
Marble, Franklin D., L. E. Juniper, and J. L. De Armond. Debarker. 3,049,158, 8–14–62, Cl. 144—208.
Marble, Harold A.: *See*—
Burbey, Chester P., and Marble. 3,062,933.
Marblette Corp., The: *See*—
Pollak, Frederick P. 3,027,365.
Marburg, Edgar, to United States Steel Corp. Sectional hot top. 3,015,139, 1–2–62, Cl. 22—147.
Marburg, Edgar, to United States Steel Corp. Apparatus for handling sectional hot tops. 3,022,551, 2–27–62, Cl. 22—31.
Marburg, Edgar, to United States Steel Corp. Sectional hot top. 3,026,585, 3–27–62, Cl. 22—147.
Marburg, Edgar. Hot tops with exothermic inserts. 3,060,533, 10–30–62. Cl. 22—147.
Marbury, Ralph E., to Westinghouse Electric Corp. Power capacitor units. 3,018,427, 1–23–62, Cl. 317—242.
Marcalus, Nicholas. Embossing. 3,047,454, 7–31–62, Cl. 162—117.
Marcalus, Robert L. Receptacles. 3,033,362, 5–8–62, Cl. 206—57.
Marcante, Antonio. Door lock. 3,036,454, 5–29–62, Cl. 70—422.
Marcante, Antonio. Door furniture. 3,044,817, 7–17–62, Cl. 292—336.3.
Marcatili, Enrique A. J., to Bell Telephone Laboratories, Inc. Microwave devices for waveguides of circular cross section. 3,025,479, 3–13–62, Cl. 333—9.
Marcatili, Enrique A. J., to Bell Telephone Laboratories, Inc. Frequency separator. 3,031,630, 4–24–62, Cl. 333—6.
Marcatili, Enrique A. J., and D. H. Ring, to Bell Telephone Laboratories, Inc. Millimeter wave hybrid junction. 3,050,699, 8–21–62, Cl. 333—11.
Marcec, Ervin A. Hot top with refractory bottom ring and wiper. 3,044,133, 7–17–62, Cl. 22—147.
Marcellus, Manley C., and J. A. Scarlett, to FMC Corp. Process for production of barium silicates containing water-soluble barium values from barite. 3,018,168, 1–23–62, Cl. 23—186.
March, Clifton J.: *See*—
Atkinson, George E., and March. 3,028,890.
March, Earl T. Jogger stapler. 3,055,009, 9–25–62, Cl. 1—106.
March, Glenn A.: *See*—
Schaschl, Edward, and March. 3,065,151.
March, John J. Prefabricated insulated duct and sound trap. 3,019,850, 2–6–62, Cl. 181—42.
March, Joseph F., to The Stanley Works. Shrub shears. 3,055,108, 9–25–62, Cl. 30—257.
March, Roy C., to Marconi's Wireless Telegraph Co. Ltd. Television transmitter synchronization by remote synchronizing source. 3,047,658, 7–31–62, Cl. 178—69.5.
Marchal, Marie-Therese: *See*—
Marchal, Maurice and M.-T. 3,020,119.
Marchal, Maurice and M.-T. Apparatus for recording light spot traces on film. 3,020,119, 2–6–62, Cl. 346—109.
Marchal, Raymond H.: *See*—
Bertin, Jean H., Kadosch, Turinetti, and Marchal. 3,048,974.
Marchand, Curtis J. Ornamental piping for shoes and the like. 3,059,354, 10–23–62, Cl. 30—57.
Marchand, Jean: *See*—
Brichard, Edgard, and Marchand. 3,027,646.
Marchand, William C., to Continental Aviation and Engineering Corp. Bearing means. 3,026,154, 3–20–62, Cl. 308—35.
Marchand, William C., to Continental Aviation and Engineering Corp. Load equalizer. 3,034,369, 5–15–62, Cl. 74—410.
Marchant, Alan, to Imperial Chemical Industries Ltd. Separation of isomeric aromatic compounds using a steam treated Werner-type complex. 3,053,912, 9–11–62, Cl. 260—674.
Marchant, Francis C. I., P. G. Batchelor, and R. W. Jagaard, to Bristol Siddeley Engines Ltd. Aircraft propulsion power units. 3,056,258, 10–2–62, Cl. 60—35.55.
Marchant, Joseph, to General Motors Corp. Headlamp cover. 3,070,687, 12–25–62, Cl. 240—7.1.
Marcheguet, Henri G. L.: *See*—
Gandon, Louis, Lehmann, Marcheguet, and Tarbouriech. 3,028,340.
Marcheguet, Henri G. L., and L. Gandon, to Nobel-Bozel. Process for the preparation of silica sols. 3,026,267, 3–20–62, Cl. 252—313.
Marchese, Theodore J., to International Telephone and Telegraph Corp. Pulsed beam tube. 3,051,865, 8–28–62, Cl. 315—3.
Marchetti, Carlo, to Societe Industrielle de Mecanique et Carrosserie Automobile-Simca. Mechanical vibration damping system. 3,019,030, 1–30–62, Cl. 280—124.
Marchewitz, Eugene J.: *See*—
Harned, John L., and Marchewitz. 3,033,305.
Marchfelder, Richard. Apparatus for treating fibrous materials. 3,038,671, 6–12–62, Cl. 241—120.
Marchi, Vito V., to American Radiator & Standard Sanitary Corp. Liquid dispenser. 3,045,876, 7–24–62, Cl. 222—386.
Marchi, Vito V., to American Radiator & Standard Sanitary Corp. Pressure switch for washing machine tub level control. 3,064,094, 11–13–62, Cl. 200—83.
Marchino, Piero, to Fiat Societa per Azioni. Resilient vehicle seat structure. 3,059,919, 10–23–62, Cl. 267—103.
Marchioli, Giorgio, and G. Gremigni. Apparatus for manufacturing pipes from plastic materials. 3,021,900, 2–20–62, Cl. 182—402.
Marchioli, Giorgio, and G. Gremigni, to Italtubi Soc. per Az. Societa Riunite G.I.M.F.A.-Italtubi. Process for providing asbestos-cement pipes with sockets. 3,031,365, 4–24–62, Cl. 156—294.
Marchisio, Felice. Trigger mechanism for automatic firearms. 3,029,708, 4–17–62, Cl. 89—131.
Marchus, Clarence E., and W. Shryock. Toy. 3,030,731, 4–24–62, Cl. 46—41.
Marcin, Joseph J., to Spanjer Bros., Inc. Mounting for letters. 3,063,199, 11–13–62, Cl. 50—23.
Marco Industries Co.: *See*—
Rodgers, George H. 3,017,594.
Rodgers, George H. 3,018,473.
Marco, John. Combined mixer, reactor and deaerator for chemical processes. 3,047,368, 7–31–62, Cl. 23—252.
Marcograph, Ltd.: *See*—
Marcott, Paul. 3,054,339.
Marconi Sounding Device Co. Ltd., The: *See*—
Watt, James. 3,040,293.
Marconi's Wireless Telegraph Co. Ltd.: *See*—
Brandon, Percy S., and Wright. 3,070,794.
Brisbane, John A. M. 3,034,054.
Byatt, Dennis. 3,047,864.
Coop, Gordon N. 3,067,418.
Dale, Alan W. 3,024,457.
Harding, Anthony A. 3,067,417.
Heightman, Anthony N., and Underhill. 3,034,037.
Helsdon, Peter B. 3,028,508.
Jolliffe, Sidney A. W. 3,020,546.
Jolliffe, Sidney A. W. 3,047,862.
Jones, Alfred C. 3,032,721.
Lohoar, John R. 3,054,075.
March, Roy C. 3,047,658.
O'Nians, Frank A., and Crumpen. 3,067,421.
Rodgers, John. 3,029,429.
Waldron, Richard A. 3,067,395.
Wielobob, Mieczyslaw. 3,031,664.
Wright, Peter M., and Brandon. 3,054,104.
Marconi's Wireless Telegraph Co. Ltd. and Standard Telephones & Cables Ltd.: *See*—
Axon, Peter E., Kyffin, and Frost. 3,064,076.
Marcot, Guy C.: *See*—
Nelson, Earl W., Bondurant, and Marcot. 3,062,621.
Marcott, Paul, to Marcograph, Ltd. Apparatus for addressing envelopes. 3,054,339, 9–18–62, Cl. 95—75.
Marcotte, Erwin J.: *See*—
Barrett, John J., and Marcotte. 3,067,892.
Marcotte, James L.: *See*—
Meyer, Frank E., and Marcotte. 3,019,768.
Marcovitz, Morton W., and W. Hanstein, to Burroughs Corp. Item handling apparatus. 3,052,350, 9–4–62, Cl. 209—74.
Marcum, Norman E., and W. A. Farrand, to North American Aviation, Inc. Rotatable magnetic disc movable toward and from disc carrying transducer. 3,047,869, 7–31–62, Cl. 346—74.
Marcus, Edith. Toe straightening device. 3,049,120, 8–14–62, Cl. 128—81.
Marcus, Erich: *See*—
Fitzpatrick, John T., Fowler, and Marcus. 3,069,422.
Fitzpatrick, John T., Fowler, and Marcus. 3,069,428.
Torgeson, Dewayne C., Marcus, and Lambrech. 3,055,801.
Marcus, Erich, to Union Carbide Corp. Halobutenylcyclopentenes. 3,035,102, 5–15–62, Cl. 260—648.
Marcus, Erich, and J. T. Fitzpatrick, to Union Carbide Corp. 4,4-dihalotetrahydropyrans. 3,030,385, 4–17–62, Cl. 260—345.1.
Marcus, Erich, and J. T. Fitzpatrick, to Union Carbide Corp. Trihalotetrahydropyrans. 3,037,994, 6–5–62, Cl. 260—345.1.
Marcus, Erich, and J. T. Fitzpatrick, to Union Carbide Corp. 4-halo-3-halomethyltetrahydropyran. 3,056,803, 10–2–62, Cl. 260—345.1.
Marcus, Erich, and J. T. Fitzpatrick, to Union Carbide Corp. 4-halo-3-halomethyltetrahydropyran. 3,056,804, 10–2–62, Cl. 260—345.1.
Marcus, Erich, and J. T. Fitzpatrick, to Union Carbide Corp. Process for the production of novel cyclopentenyl ethers of epoxidized vegetable oils. 3,068,255, 12–11–62, Cl. 260—408.
Marcus, Harold E. Can opener. 3,023,497, 3–6–62, Cl. 30—20.
Marcus, Jerome R., to Western Electric Co., Inc. Winding drums. 3,016,212, 1–9–62, Cl. 242—72.
Marcus, Louis: *See*—
Lakjer, Leo E. 3,051,779.
Marcus, Louis G., to Hampshire Mfg. Corp. Inflatable mattress. 3,042,941, 7–10–62, Cl. 5—348.
Marcus, Mitchell P.: *See*—
Armstrong, Philip N., Marcus, and Nelson. 3,034,102.
Droege, Frederick J., Klotz, and Marcus. 3,024,980.
Marcus, Mitchell P., to International Business Machines Corp. Data switching apparatus. 3,034,104, 5–8–62, Cl. 340—172.5.
Marcus, Natalie S.: *See*—
Smith, Merrill M., Holmstrom, and Marcus. 3,049,459.
Marcus, Sanford M., and J. T. Wallmark, to Radio Corp. of America. Shift register. 3,070,711, 12–25–62, Cl. 307—88.5.

Marcy, Henry T., to International Business Machines Corp. Computer apparatus for problems wherein a number of variables are subject to a lesser number of restrictions. 3,033,460, 5–8–62, Cl. 235—180.
Marcy, John P. Display rack. 3,040,459, 6–26–62, Cl. 40—124.
Marcyes, Vernie W., and T. L. Granger. Sound actuated control system for ball mill and the like. 3,050,264, 8–21–62, Cl. 241—34.
Marczak, William J.: *See*—
Jones, Richard H., Marczak, and Funk. 3,038,442.
Marden, Carleton S.: *See*—
Gordon, William J., and Marden. 3,055,335.
Sperry, Charles R., and Marden. 3,026,589.
Marden, Erwin S., to Auto-Test, Inc. Timing light circuit. 3,027,489, 3–27–62, Cl. 315—86.
Marden, Tilghman B., Jr., to The Black and Decker Mfg. Co. Lubricator for heavy-duty portable nibbler. 3,029,510, 4–17–62, Cl. 30—123.
Marder, Michael. Bind operated music box. 3,041,911, 7–3–62, Cl. 84—94.
Mardon, James: *See*—
Logan, Kenneth C., and Mardon. 3,038,538.
Mare, Ernest, and S. L. Bateman, to Airfilpat Holdings (Proprietary) Ltd. Gas scrubbing and like operations. 3,036,-417, 5–29–62, Cl. 55—29.
Marek, Ronald W.: *See*—
Jaszka, Daniel J., and Marek. 3,036,013.
Marek, Ronald W., to Olin Mathieson Chemical Corp. Dichlorocyanurate complex salts. 3,055,889, 9–25–62, Cl. 260—242.
Marelli Lenkurt S.p.A.: *See*—
Stracca, Giovanni B. 3,068,429.
Marepa Trust Ltd.: *See*—
Moore, Walter G. 3,069,704.
Marettta, Marcella S.: *See*—
Tenconi, Riccardo. 3,024,634.
Marette, Ralph T., and P. J. Miller, to The Weatherhead Co. Expulsion valve mechanism. 3,032,051, 5–1–62, Cl. 137—87.
Marette, Ralph T., and B. Tadeusz; said Marette, assor. to The Weatherhead Co. Pressure intensifier. 3,054,261, 9–18–62, Cl. 60—51.
Maretti, Louis A., to Perma-Pier, Inc. Underwater rocket. 3,060,854, 10–30–62, Cl. 102—34.5.
Marg, Elwin: *See*—
Mackay, Ralph S., and Marg. 3,049,001.
Margala, Charles E. Telescopic power cylinder and method of making same. 3,046,948, 7–31–62, Cl. 121—46.
Margaroli, John L.: *See*—
Hesse, Earl J., and Margaroli. 3,042,093.
Margetts, Howard S.: *See*—
Whittle, Robert L., Jones, Honeiser, and Margetts. 3,036,291.
Margiloff, Irwin B., to Scientific Design Co., Inc. Chemical apparatus. 3,046,752, 7–31–62, Cl. 62—123.
Margolies, Samuel L., to Burndy Corp. Electrical connector. 3,052,868, 9–4–62, Cl. 339—244.
Margolin, Harold, L. S. Croan, W. F. Kirk, and P. A. Farrar, to United States of America, Army. Titanium base alloy. 3,069,259, 12–18–62, Cl. 75—175.5.
Margolin, Stanley V.: *See*—
Old, Bruce S., Hyde, Meissner, Margolin, and Schora. 3,020,149.
Margolin, Stanley V., R. J. Bowen, J. F. Angeline, and F. W. Laffert, Jr., to Arthur D. Little, Inc. Lignite char barbecue briquettes and method of making them. 3,062,-629, 11–6–62, Cl. 44—15.
Margolis, David P., and E. G. Walsh, to Bell Telephone Laboratories, Inc. Method of bonding metallic members. 3,050,843, 8–28–62, Cl. 29—470.
Margon Corp.: *See*—
Wolfe, Howard, and Samo. 3,068,613.
Margot, Alfred, to J. R. Geigy A.G. Process and composition for attracting and combatting insects, in particular the Mediterranean fruit fly. 3,030,267, 4–17–62, Cl. 167—48.
Margot, Alfred, to J. R. Geigy, A.-G. Process and composition for attracting and combatting insects, in particular the Mediterranean fruit fly. 3,030,268, 4–17–62, Cl. 167—48.
Margot, Alfred, to J. R. Geigy A.-G. Agriculture compositions and method for controlling plant-parasitic nematodes. 3,037,908, 6–5–62, Cl. 167—33.
Margraf, John W.: *See*—
King, Clarence V., Jr., and Margraf. 3,039,370.
Margraf, Mildred E. Pinless baby diaper. 3,050,063, 8–21–62, Cl. 128—284.
Margraf, Philbert S., to Poor & Co. Two-piece rail anchor. 3,044,710, 7–17–62, Cl. 238—327.
Margrave, John L., and S. P. Randall, to Callery Chemical Co. Preparation of boric oxide and boric acid. 3,026,178, 3–20–62, Cl. 23—149.
Margulies, Stanley H. Easel clock and the like with interchangeable frames. 3,045,960, 7–24–62, Cl. 248—117.
Margulis, Joseph M. Picture hanger with transparent flaps. 3,052,436, 9–4–62, Cl. 248—28.
Margus, Edward A., to Vanton Pump & Equipment Corp. Pump. 3,038,414, 6–12–62, Cl. 103—149.
Marie, Georges R.-P., to Societe d'Applications Generales d'Electricite et de Mecanique. Wide band slot antenna. 3,031,665, 4–24–62, Cl. 343—770.
Marien, Kenneth J.: *See*—
Goudy, Paul R., Gribble, and Marien. 3,024,337.
Gribble, Joseph J., and Marien. 3,032,624.
Marien, Melvin W., to Ramsey Corp. Piston and piston ring assembly. 3,050,354, 8–21–62, Cl. 277—188.
Marien Metal Products Co.: *See*—
Marsh, Lyle. 3,054,600.
Marsh, Lyle, and Malkin. 3,015,415.
Marsh, Lyle, and Malkin. 3,023,936.
Marin-Marie: *See*—
Durand-Couppel de Saint Front, Marin-Marie. 3,052,-898.
Marinace, John C., to International Business Machines Corp. Production of uniform high impurity concentration semiconductor material. 3,031,404, 4–24–62, Cl. 252—62.3.
Marinace, John C., to International Business Machines Corp. Epitaxial semiconductor deposition and apparatus. 3,047,-438, 7–31–62, Cl. 148—1.5.
Marinace, John C., to International Business Machines Corp. Vapor deposition of heavily doped semiconductor material. 3,065,116, 11–20–62, Cl. 184—1.5.
Marindin, Robert, to International Harvester Co. Spring control mechanism for hydraulically controlled implement hitch. 3,022,832, 2–27–62, Cl. 172—10.
Marindin, Robert, to International Harvester Co. Overload release means for tractors having hydraulic drive transmissions. 3,024,859, 3–13–62, Cl. 180—14.5.
Marine Construction & Design Co.: *See*—
Gordon, Tullus B. 3,034,767.
Marine Controls Laboratories: *See*—
Boylan, Frank V. 3,038,744.
Marine National Exchange Bank of Milwaukee: *See*—
Stamp, Hugo O. 3,053,298.
Marine Propeller Co.: *See*—
Rielag, John H. 3,047,074.
Marine Research Co.: *See*—
Pavey, George M., Jr. 3,022,852.
Marinelli, Loreto P.: *See*—
Rowland, Stanley P., and Marinelli, and Andrews. 3,016,369.
Marinese, Anthony J., and C. A. Oddo. Bowler's protective thumb ring. 3,046,561, 7–31–62, Cl. 2—21.
Maring, Walter D. Composition and a method for treating molten metals. 3,042,484, 7–3–62, Cl. 23—14.
Maring, Walter D. Ingot-stool sticker breaker. 3,060,531, 10–30–62, Cl. 22—95.
Maringer, Melvin F.: *See*—
Rowland, Stanley P., and Maringer. 3,061,581.
Rowland, Stanley P., and Maringer. 3,062,769.
Marini, Albert, Sr. Quick-change tool adapter. 3,026,116, 3–20–62, Cl. 279—48.
Marino, Anthony J., Jr., to International Telephone and Telegraph Corp. Method of joining a semiconductor to a conductor. 3,065,534, 11–27–62, Cl. 29—473.1.
Marino, Frank J. Portable loading canopy. 3,064,667, 11–20–62, Cl. 135—1.1.
Marino, Philip M.: *See*—
Walsh, James L., and Marino. 3,026,487.
Marinovich, Eli J.: *See*—
Marinovich, Samuel G. and E. J. 3,021,888.
Marinovich, Melan J.: *See*—
Marinovich, Samuel G. and E. J. 3,021,888.
Marinovich, Samuel G., deceased (by M. J. Marinovich, special administrator), and E. J. Marinovich, to Yuba Consolidated Industries, Inc. Pipe exanding apparatus. 3,021,888, 2–20–62, Cl. 153—79.
Marinus, Bernard. Car washing article with water distributing head. 3,063,084, 11–13–62, Cl. 15—567.
Marion, Clyde E., R. T. Bartlett, and G. C. Clark, to Fairbanks, Morse & Co. Portable scale platform structure. 3,043,386, 7–10–62, Cl. 177—126.
Marion, George E.: *See*—
Wrisdale, Peter T., and Marion. 3,034,169.
Marion, William W., Sr. Automobile traffic signal. 3,019,-415, 1–30–62, Cl. 340—82.
Maris, Elwood S., Sr.: *See*—
Andrews, Dallas R., and Maris. 3,027,109.
Marittin, Addino S., to Olivetti, Ing. C., & C., S.p.A. Device for molding articles by compacting powder material. 3,020,-589, 2–13–62, Cl. 18—16.5.
Mark, Alexander H., to Massey-Ferguson Inc. Thrust bearings for hydrostatic transmissions. 3,036,434, 5–29–62, Cl. 60—53.
Mark, Alexander H., and L. Au, to Massey-Ferguson Inc. Control mechanism for tractor hydraulic systems. 3,048,-981, 8–14–62, Cl. 60—97.
Mark, Alexander H., J. M. Brzustowski, and J. Coleman, to Massey-Ferguson Inc. Straw walkers having inclined plates. 3,049,128, 8–14–62, Cl. 130—26.
Mark, Alexander H., G. F. Cooper, and J. Coleman, to Massey-Ferguson Inc. Straw walkers having closely spaced saw-toothed plates. 3,049,129, 8–14–62, Cl. 130—26.
Mark, Alexander H., and H. D. Jamison, to Massey-Ferguson Inc. Split-path torque converter transmission and power take-off drive. 3,065,643, 11–27–62, Cl. 74—15.63.
Mark, Andre. Pneumatically acting driers. 3,041,737, 7–3–62, Cl. 34—57.
Mark-Clark Products, Inc.: *See*—
Clark, James L. 3,020,658.
Mark, Clayton, & Co.: *See*—
Stanley, Peter J., and Tillery. 3,063,377.
Mark, Edward R. Crimping device. 3,035,627, 5–22–62, Cl. 153—1.
Mark, Herbert A.: *See*—
Granryd, Thorvald G., and Mark. 3,065,870.

Mark, John T., and I. H. Gantz, to Radio Corp. of America. Bakable ultra-high vacuum valve. 3,043,323, 7–10–62, Cl. 137—67.

Mark, Melvin: *See*—
Goltsos, Costas E., Mark, and Stephenson. 3,024,298.

Mark, Richard S.: *See*—
Oldenburg, Kenneth F., and Mark. 3,031,954.

Mark, Stanley D., Jr.: *See*—
Nicholson, Kenneth C., and Mark. 3,035,325.

Mark, Vennice E. Projector platform. 3,029,116, 4–10–62, Cl. 312—27.

Mark, Vennice E. Projector cabinet. 3,066,993, 12–4–62, Cl. 312—20.

Markakis, Michael J.: *See*—
Trimble, Lyne S., Markakis, Nishball, and Leinberger. 3,017,234.

Markakis, Pericles, T. M. Freeman, and W. H. Harte, to DCA Food Industries Inc. Method of producing a chip-type food product. 3,027,258, 3–27–62, Cl. 99—81.

Markarian, Moushy: *See*—
Peck, David B., and Markarian. 3,041,511.

Markel, Morris L.: *See*—
Ortiz, Ralph G., Grant, and Markel. 3,068,341.

Marker, Hannes. Safety ski-binding. 3,055,673, 9–25–62, Cl. 280—11.35.

Markert, Willi, and W. Steudten. Device for delivering yarn for knitting purposes. 3,026,696, 3–27–62, Cl. 66—125.

Market Forge Co.: *See*—
Binding, Kenneth W. 3,063,464.
Shaw, Harold N. 3,068,912.
Swanson, Herbert F. 3,065,860.

Markey, Francis J., to General Motors Corp. Brake system testing and filling apparatus. 3,044,664, 7–17–62, Cl. 222—47.

Markgraf, Robert W.: *See*—
MacDonald, Hugh D., Jr., Markgraf, and Waecker. 3,057,261.

Markham, David R., and K. Q. Kessler, to Deere & Co. Rotor for agricultural machines and the like. 3,050,927, 8–28–62, Cl. 56—504.

Markhart, Albert H.: *See*—
Kass, Robert E., Markhart, and Hunt. 3,061,566.
Kass, Robert E., Markhart, and Lavin. 3,063,995.
Lavin, Edward, and Markhart. 3,037,959.
Lavin, Edward, and Markhart. 3,068,189.

Markhart, Albert H., C. F. Hunt, and E. Lavin, to Shawinigan Resins Corp. Reaction product of a polysiprane resin with a polycarboxylic acid anhydride, mixtures thereof with other polymeric materials, process for preparing same, and conductor coated therewith. 3,015,643, 1–2–62, Cl. 260—42.

Markhart, Albert H., C. F. Hunt, and S. M. Cohen, to Shawinigan Resins Corp. Polysiprane resin cured in the presence of an acid catalyst, mixtures thereof with other resinous materials, process for preparing same, and electrical conductor coated therewith. 3,048,560, 8–7–62, Cl. 260—42.

Markland, Harold A.: *See*—
Ensign, Westley L., and Markland. 3,042,335.

Markle, Harry A., Jr., and J. H. Morrow, to Fuller Co. Incinerator for waste material. 3,016,849, 1–16–62, Cl. 110—18.

Markle, Ralph D., Jr.: *See*—
Johnston, Mason W., and Markle. 3,050,081.

Markley, Francis X.: *See*—
Orloff, Harold D., and Markley. 3,038,791.
Orloff, Harold D., and Markley. 3,055,747.
Song, John, Horton, MacGregor, and Markley. 3,023,243.
Song, John, and Markley. 3,060,194.

Markley, Francis X., to Pittsburgh Coke and Chemical Co. Composition and method for defoliating plants. 3,033,667, 5–8–62, Cl. 71—2.3.

Markley, John F., J. S. Bartlo, R. B. Brigham, and L. L. Campbell, to Lynch Corp. Draw type wrapping machine. 3,055,154, 9–25–62, Cl. 53—182.

Markley, Myron D.: *See*—
La Warre, Robert W., and Markley. 3,021,402.

Markley, Raymond L. Cervical tourniquet instrument. 3,063,455, 11–13–62, Cl. 128—325.

Markley, William F., and J. L. Slater, to The Western Union Telegraph Co. Telegraph pole line insulator. 3,061,667, 10–30–62, Cl. 174—211.

Marko, Albert J., to General Telephone and Electronics Laboratories, Inc. Register. 3,025,507, 3–13–62, Cl. 340—324.

Marko, Albert J., to General Telephone and Electronics Laboratories, Inc. Electroluminescent arithmetic circuit. 3,070,702, 12–25–62, Cl. 250—213.

Marko Fabrieken voor Metaalbewerking, N.V.: *See*—
Siepel, Tebbe J. 3,037,301.

Markoff-Moghadam, Leo. Electrically operated fishing reel with brake. 3,030,046, 4–17–62, Cl. 242—84.53.

Markoff-Moghadam, Leo. Safety clip. 3,049,770, 8–21–62, Cl. 24—13.

Markovich, George J., to Parker-Hannifin Corp. Fluid system and relief valve assembly therefor. 3,023,584, 3–6–62, Cl. 60—97.

Markovich, William J. Indicating gauge elements. 3,025,826, 3–20–62, Cl. 116—124.

Markow, Elliott W., to Raytheon Co. Large angle RF phase shifters. 3,017,583, 1–16–62, Cl. 332—22.

Markowitz, Jerome. Electronic organ with transient speech effects. 3,037,413, 6–5–62, Cl. 84—1.24.

Markowitz, Jerome to Allen Organ Co. Electronic harpsichord loudspeaker arrangement and the like. 3,064,515, 11–20–62, Cl. 84—1.

Markowitz, Jerome, and M. F. Nelson, to Allen Organ Co. Light responsive variable resistance control devices for electronic musical instruments. 3,045,522, 7–24–62, Cl. 84—1.27.

Markowitz, Seymour, to Ampex Corp. Wire-fastening method. 3,025,591, 3–20–62, Cl. 29—155.55.

Markowitz, Seymour, to Ampex Corp. Magnetic current-steering switch. 3,056,040, 9–25–62, Cl. 307—88.

Markowitz, Seymour, to Ampex Corp. Reversible current-steering switch. 3,061,740, 10–30–62, Cl. 307—88.5.

Marks, Albert B., to Dresser Industries, Inc. Calibration and handling device for acoustic logging instruments. 3,056,464, 10–2–62, Cl. 181—.5.

Marks, Alvin M.: *See*—
Kahn, Myron, and A. M. and M. M. Marks. 3,016,071.

Marks, Alvin M., to said A. M. Marks and M. M. Marks. Light polarizing device. 3,026,763, 3–27–62, Cl. 88—1.

Marks, Alvin M., M. Kahn, and M. M. Marks, to said A. M. and M. M. Marks. Flake glass panel structures. 3,024,701, 3–13–62, Cl. 88—65.

Marks, Alvin M., and M. M. Multi-layered light polarizers. 3,069,974, 12–25–62, Cl. 88—65.

Marks, Barnard M.: *See*—
Eifert, Robert L., and Marks. 3,054,774.

Marks, Barnard M., and G. H. Whipple, to E. I. du Pont de Nemours and Co. Concentration of aqueous colloidal dispersions of polytetrafluoroethylene. 3,037,953, 6–5–62, Cl. 260—29.6.

Marks, Bert H.: *See*—
Ten Haken, Melvin G., Parsons, and Marks. 3,052,824.

Marks, Craig: *See*—
Marks, Robert L., Hetzler, and Marks. 3,070,704.

Marks Development Corp.: *See*—
Blake, Samuel M. 3,038,519.

Marks, Ellis C.: *See*—
Striplin, Marcus M., Jr., McKnight, and Marks. 3,015,540.

Marks, Eugene A., to Bourns, Inc. Pressure transducer. 3,020,504, 2–6–62, Cl. 338—40.

Marks, Louis W., to General Electric Co. High voltage current transformer. 3,059,151, 10–16–62, Cl. 317—15.

Marks, Meyer: *See*—
Guzskie, Stanley, Holpuch, and Marks. 3,033,930.

Marks, Meyer, to Admiral Corp. Remote control television. 3,052,848, 9–4–62, Cl. 325—392.

Marks, Meyer, to Admiral Corp. Electronic circuit. 3,056,928, 10–2–62, Cl. 325—425.

Marks, Meyer, and R. B. Schrecongost, to Admiral Corp. Remote control systems. 3,029,305, 4–10–62, Cl. 178—5.8.

Marks, Morris M.: *See*—
Seymour, James J. 3,023,458.

Marks, Mortimer M.: *See*—
Kahn, Myron, and A. M. and M. M. Marks. 3,016,071.
Marks, Alvin M. 3,026,763.
Marks, Alvin M., Kahn, and Marks. 3,024,701.
Marks, Alvin M. and M. M. 3,069,974.

Marks, Ralph: *See*—
Smith, Edwin K., Jr., Alexander, and Marks. 3,022,716.

Marks, Raymond, and E. Chasse; said Chasse assor. to said Marks. Apparatus for making plastic articles. 3,066,353, 12–4–62, Cl. 18—20.

Marks, Robert B. Adjustable three dimensional circuit system. 3,026,453, 3–20–62, Cl. 317—101.

Marks, Wilbur, to Oceanics, Inc. Sonic ship speed indicator. 3,066,279, 11–27–62, Cl. 340—3.

Markson, John L., L. B. Noe, and F. V. Andersen, to North American Aviation, Inc. Servo analyzer. 3,065,419, 11–20–62. Cl. 324—158.

Marksway Wear, Ltd.: *See*—
Shaw, Mark. 3,047,889.

Markunas, Peter A.: *See*—
Renald, John A., Markunas, and Terra. 3,027,136.

Markus, George, and M. Siegel, to Aristocrat Leather Products, Inc. Ornamental sheet material and method of making same. 3,051,600, 8–28–62, Cl. 154—47.

Markus, Richard L., to Fritzsche Brothers, Inc. Process for producing sesamol. 3,058,995, 10–16–62, Cl. 260—340.5.

Markusen, David L., and R. C. McLane, to Minneapolis-Honeywell Regulator Co. Aircraft landing apparatus. 3,040,568, 6–26–62, Cl. 73—178.

Markusen, David L., R. C. McLane, and O. R. Pomeroy, to Minneapolis-Honeywell Regulator Co. Aircraft landing process and apparatus. 3,045,955, 7–24–62, Cl. 244—77.

Markus-Markush, Ernesto. Catalytic lighter. 3,031,870, 5–1–62, Cl. 67—7.

Markvaldas, Jonas: *See*—
Hilgoe, Vernon J., and Markvaldas. 3,060,851.

Markwood, William H., Jr.: *See*—
Carson, James S., Feild, Kegan, Markwood, and Whitney. 3,018,252.
Feild, George B., and Markwood. 3,020,133.

Marland, Joseph A., to Marland One-Way Clutch Co. One-way clutch. 3,017,002, 1–16–62, Cl. 192—45.

Marland, Joseph A. Transmission. 3,058,556, 10–16–62, Cl. 192—45.

Marland One-Way Clutch Co.: *See*—
Marland, Joseph A. 3,017,002.

Marlette, Goley R., and R. W. Barrow, to Adams-Millis Corp. Fashioned heel for seamless hosiery and method of making same. 3,028,739, 4–10–62, Cl. 66—187.
Marlex Mfg. Co.: *See*—
Duncanson, Peter P. 3,036,643.
Marley Co., The: *See*—
Elliott, Ronald A. 3,060,556.
Fordyce, Homer E., and Baker. 3,063,688.
Fordyce, Homer E., and Shryock. 3,065,587.
Mart, Leon T. 3,044,237.
Marley, John, to Hazeltine Research, Inc. Process of manufacturing magnetic deflection yokes. 3,015,152, 1–2–62, Cl. 29—155.57.
Marley, John, to Hazeltine Research, Inc. Signal modifier. 3,037,143, 5–29–62, Cl. 315—27.
Marlin, Elmer D.: *See*—
Jensen, Raymond W., Knight, and Marlin. 3,063,239.
Marlin, Elmer D., to The Garrett Corp. Pneumatic speed sensing governor. Re. 25,174, 5–29–62, Cl. 137—54.
Marlin-Rockwell Corp.: *See*—
Kupchick, John J. 3,037,827.
Marlin Toy Products, Inc.: *See*—
Lakin, Willis M. 3,058,261.
Marlin, William R.: *See*—
Davidson, William W., Jr., Dell, Dykaar, and Marlin. 3,048,099.
Marlo, Arvid. Centrifugal rotational molding method. 3,048,896, 8–14–62, Cl. 18—58.3.
Marlo Coil Co.: *See*—
Pellegrini, Louis C. 3,026,092.
Pellegrini, Louis C. 3,055,284.
Marlot, Raoul, to Electricite de France, Service National. Apparatus for measuring the product of at least two factors and in particular for counting the consumption of electrical energy. 3,067,941, 12–11–62, Cl. 235—194.
Marlow, Stanley: *See*—
Sundquist, Gene J., and Marlow. 3,051,292.
Marlow, William H.: *See*—
Sandridge, Ellsworth R., and Marlow. 3,025,652.
Marmion, Theodore. Apparatus for balancing and holding pile-driving hammers on sheet piling. 3,019,608, 2–6–62, Cl. 61—63.
Marmo, Frederick F. Preserving against decay particles of material suspended in lower atmosphere. 3,052,052, 9–4–62, Cl. 40—213.
Marmon-Herrington Co., Inc.: *See*—
Hesson, James C. 3,064,574.
Hudnall, Charles P., Jr. 3,028,922.
Long, John B. 3,016,204.
Swanson, James A. 3,027,146.
Swanson, James A., and Graham. 3,055,447.
Marmorstone, Robert J., to ISI Inc. Alarm and annunciator system. 3,028,585, 4–3–62, Cl. 340—213.
Marnett, Lawrence F., and W. B. Hampton, to C. J. Patterson Co. Dough knockback device. 3,021,800, 2–20–62, Cl. 107—54.
Marogg, Richard: *See*—
Whitehead, Raymond O., Master, and Marogg. 3,035,497.
Maron, Arthur M. Ash receptacle. 3,052,346, 9–4–62, Cl. 206—38.
Maron, Meyer, to Fairchild Camera and Instrument Corp. Dual electronic switch symmetrically located in delay line. 3,065,426, 11–20–62, Cl. 328—56.
Maroney, Clair F., to Southwestern Porcelain Steel Corp. Building construction. 3,055,460, 9–25–62, Cl. 189—34.
Maros, Frank G., and P. G. Stephan, to E. I. du Pont de Nemours and Co. Heat-seal apparatus and process. 3,052,590, 9–4–62, Cl. 156—289.
Marot, Emile, Societe: *See*—
Taudiere, Emile. 3,036,706.
Marotta Valve Corp.: *See*—
Kowalski, Slawomir, and Kenann. 3,022,978.
Marotto, Robert A., and H. L. De Vines, to Schlage Lock Co. Latch mechanism for sliding door. 3,046,776, 7–31–62, Cl. 70—97.
Marotto, Robert A., and R. L. Saylor. Nozzle and irrigator attachment. 3,058,670, 10–16–62, Cl. 239—431.
Marous, Leonard F., and C. D. McCleary, to United States Rubber Co. Polymerization catalyst for vinyl chloride. 3,022,282, 2–20–62, Cl. 260—92.8.
Marpe, Frederick W. Steel band form tie insert. 3,020,616, 2–13–62, Cl. 25—131.
Marple, Stanley, Jr.: *See*—
Post, Benjamin G., Marple, and Arabian. 3,036,024.
Marple, Walter L.: *See*—
Boswinkle, George, and Marple. 3,066,519.
Marples, James O., and E. W. Sawyer, Jr., to Minerals & Chemicals Philipp Corp. Colloidal clay bonded agricultural granule. 3,062,637, 11–6–62, Cl. 71—2.4.
Marquardt Corp., The: *See*—
Absalom, James G. 3,067,761.
Ahern, John E. 3,043,110.
Arnberg, Benjamin T., Braendlein, and Starbuck. 3,029,601.
Bauer, Ernest A. 3,046,790.
Bauer, Ernest A., and Dahl. 3,029,633.
Bauer, Ernest A., and Dungan. 3,030,767.
Dahl, Philip R. 3,046,739.
Drake, John A. 3,028,731.
Drake, John A. 3,030,772.
Dungan, Richard T., Long, Stupka, Taylor, and Wise. 3,046,944.
Marquardt Corp., The: *See*—Continued
French, Edward P., and Minton. 3,046,733.
Laucher, Richard G., Budge, Falconer, and Bienert. 3,059,426.
Northrup, Milton G., and Pinkerton. 3,046,717.
Olander, Robert G. 3,067,773.
Palmiter, Russell B. 3,047,851.
Petren, Anatoly V. 3,046,729.
Petren, Anatoly V. 3,046,730.
Marquardt, Joachim: *See*—
Marsch, Albert, Marquardt, and Hess. 3,031,056.
Marque, André, to Brown, Boveri & Cie, Aktiengesellschaft. Method and apparatus for operation of ship installed gas turbine plants. 3,050,946, 8–28–62, Cl. 60—102.
Marque, Andre, to Brown, Boveri & Cie, Aktiengesellschaft. Gas turbine for ship propulsion. 3,069,134, 12–18–62, Cl. 253—70.
Marquette Corp.: *See*—
St. John, John H. 3,032,707.
Marquis, Donald P., and E. R. Wagner, to General Motors Corp. Anti-rattle spring for universal joint. 3,029,617, 4–17–62, Cl. 64—8.
Marquis, John F., to Littelfuse, Inc. Ambient temperature compensated circuit breaker. 3,038,047, 6–5–62, Cl. 200—116.
Marquis, Raymond G., to Cormier Hosiery Mills, Inc. Method of knitting an elastic top stocking. 3,060,709, 10–30–62, Cl. 66—9.
Marr, Elmer D. Material unloading and conveying apparatus for trucks. 3,056,521, 10–2–62, Cl. 214—508.
Marra, Everett, to Stahl Metal Products, Inc. Hydraulic derrick. 3,024,917, 3–13–62, Cl. 212—8.
Marra, George G., to Washington State University. Method of laminating wood timbers. 3,036,947, 5–29–62, Cl. 156—321.
Marra, Ivan L.: *See*—
Humphreys, Robert E., and Marra. 3,049,164.
Marrable, Christopher D.: *See*—
Howard, Harold T., and Marrable. 3,042,683.
Marraffino, Leonard L. Dial operated dispenser. 3,027,052, 3–27–62, Cl. 222—282.
Marrinson, Ernestine I., and M. B. Rothschild. Disposable dust mop head. 3,015,834, 1–9–62, Cl. 15—228.
Marriott, Catherine: *See*—
Marriott, Thomas E. 3,022,579.
Marriott, Ernest W. T.: *See*—
Marriott, Thomas E. 3,022,579.
Marriott, May E., executrix: *See*—
Marriott, Thomas E. 3,022,579.
Marriott, Sherman G. Toaster for buttered buns. 3,033,099. 5–8–62, Cl. 99—349.
Marriott, Thomas E., deceased, by C. and M. E. Marriott, executrixes, to E. W. T. Marriott. Setting-out-tool. 3,022,579, 2–27–62, Cl. 33—98.
Marrocco, Henry F. Apparel hanger. 3,045,882, 7–24–62, Cl. 223—95.
Marrow, Franklin D.: *See*—
Wilton, Peter, and Marrow. 3,051,509.
Marryatt, Earl A., 50% to A. C. Kidd. Flexible ladder. 3,043,399, 7–10–62, Cl. 182—196.
Marryatt, Earl A., to Lane Marryatt & Co., Inc. Grids. 3,043,407, 7–10–62, Cl. 189—34.
Marryatt, Earl A. Combination ladder and chute. 3,063,513, 11–13–62, Cl. 182—21.
Marryatt, Lane, & Co., Inc.: *See*—
Marryatt, Earl A. 3,043,407.
Mars, Oreste L. Means for taking dental impressions. 3,045,349, 7–24–62, Cl. 32—19.
Marsal, Jeannette Y.: *See*—
Marsal, Paul A. 3,046,326.
Marsal, Paul A., deceased, by J. Y. Marsal, executrix, to Union Carbide Corp. Extended area anodes. 3,046,326, 7–24–62, Cl. 136—120.
Marsala, Anton: *See*—
Baumann, Karl E., Campbell, and Marsala. 3,067,501.
Marschall, Franz, to General Aniline & Film Corp. Preparation of derivatives of benzothiophene. 3,031,460, 4–24–62, 260—329.3.
Marschik, Eduard. Apparatus for executing the automatic repeat needle distance change, automatic yarn and color change, as well as for using an additional upper thread. 3,025,808, 3–20–62, Cl. 112—84.
Marschik, Eduard. Apparatus for cutting open thread loops on textile fabrics. 3,050,814, 8–28–62, Cl. 26—11.
Marschner, Charles F. Coating material applicator with renewable cellular applicator element. 3,059,262, 10–23–62, Cl. 15—244.
Marsden, Andrew, to Causeway Reinforcement Ltd. Reinforcement for mastics, mortar and the like. 3,033,086, 5–8–62, Cl. 94—8.
Marsden, Bernard, to Associated Television Ltd. Television signal reproducer synchronization. 3,065,296, 11–20–62, Cl. 178—69.5.
Marsden, Charles F., Jr.: *See*—
Vanderbilt, Byron M., Marsden, and Gessler. 3,026,223.
Marsden, Herman A. Resuscitator. 3,021,836, 2–20–62, Cl. 128—29.
Marsden, James, to General Electric Co. Organosilicon compositions. 3,020,299, 2–6–62, Cl. 260—448.2.
Marsden, John B., to Ingersoll-Rand Co. Axial flow compressor. 3,057,543, 10–9–62, Cl. 230—143.

Marsden, John E., and H. White, to James North & Sons Ltd. Protective clothing and the like. 3,065,096, 11–20–62, Cl. 117—10.

Marsee, Frederick J., to Holley Carburetor Co. Fuel bowl vent. 3,063,687, 11–13–62, Cl. 261—42.

Marsee, Jack H. : *See*—
Jackson, James R., and Marsee. 3,032,118.

Marsel, Charles J. : *See*—
Happel, John, and Marsel. 3,065,283.

Marsh, Audrey S. : *See*—
Marsh, David F. 3,056,726.

Marsh, Byron E. : *See*—
Sherrill, Joseph C., Linfield, and Marsh. 3,033,704.

Marsh, Carl E., and F. E. Boston, to The Pyramid Rubber Co. Vented nurser. 3,022,914, 2–27–62, Cl. 215—11.

Marsh, David C., to Borg-Warner Corp. Seal. 3,029,081, 4–10–62, Cl. 277—59.

Marsh, David F., deceased, by A. S. Marsh, executrix, to McNeil Laboratories, Inc. α-ethyl-β-methylvaleramide for mental hyperirritability. 3,056,726, 10–2–62, Cl. 167—65.

Marsh, De Loss L. : *See*—
Butler, Stanley C., and Marsh. 3,041,074.
Butler, Stanley C., and Marsh. 3,046,966.

Marsh, De Loss L. Underwater breathing apparatus. 3,021,-839, 2–20–62, Cl. 128—142.

Marsh, Donald A., to Phillips Petroleum Co. Carbon black recovery. 3,017,249, 1–16–62, Cl. 23—209.4.

Marsh, Donald A., to Phillips Petroleum Co. Process control system. 3,017,662, 1–23–62, Cl. 18—1.

Marsh, Donald A., to Phillips Petroleum Co. Crystal separation and purification. 3,028,970, 4–10–62, Cl. 210—402.

Marsh, Edward N. : *See*—
Bloomquist, Leonard A., and Marsh. 3,056,931.

Marsh, Edward P., Jr., to E. P. Marsh, Sr. Heat sealer apparatus. 3,040,154, 6–19–62, Cl. 219—19.

Marsh, Edward P., Sr. : *See*—
Marsh, Edward P., Jr. 3,040,154.

Marsh, Eugene W., to Airheart Products Inc. Vehicle braking mechanism with clearance adjusting means. 3,019,859, 2–6–62, Cl. 188—72.

Marsh, Frank D., to E. I. du Pont de Nemours, and Co. Method of producing nitrogen fluorides. 3,032,400, 5–1–62, Cl. 23—205.

Marsh, Frederick, to Litton Industries, Inc. Altitude indicating or control servosystem. 3,048,762, 8–7–62, Cl. 318—489.

Marsh, Glenn A. : *See*—
Ellison, Lynn E., Schaschl, and Marsh. 3,061,773.
Schaschl, Edward, and Marsh. 3,041,868.
Schaschl, Edward, and Marsh. 3,055,813.
Slack, Howard A., and Marsh. 3,034,042.

Marsh, Glenn A., to The Pure Oil Co. Method of determining soil conductivity. 3,065,408, 11–20–62, Cl. 324—6.

Marsh, Glenn A., and E. Schaschl, to The Pure Oil Co. Method of cathodically protecting well casing. 3,029,195, 4–10–62, Cl. 204—148.

Marsh, Glenn A., and E. Schaschl, to The Pure Oil Co. Apparatus for measuring crevice corrosion. 3,042,863, 7–3–62, Cl. 324—71.

Marsh, Glenn A., and E. Schaschl, to The Pure Oil Co. Mitigating corrosion of marine structures. 3,047,478, 7–31–62, Cl. 204—148.

Marsh, Glenn A., L. E. Ellison, and E. Schaschl, to The Pure Oil Co. Device for remotely indicating corrosion. 3,047,-847, 7–31–62, Cl. 340—235.

Marsh, Glenn A., and E. Schaschl, to The Pure Oil Co. Scale and corrosion measuring device and method. 3,056,-284, 10–2–62, Cl. 73—67.8.

Marsh, Glenn A., and E. Schaschl, to The Pure Oil Co. Apparatus for testing lubricants. 3,060,721, 10–30–62, Cl. 73—10.

Marsh, Glenn A., and E. Schaschl, to The Pure Oil Co. Stress-measuring device. 3,062,043, 11–6–62, Cl. 73—88.5.

Marsh, Glenn A., and E. Schaschl, to The Pure Oil Co. Apparatus and method for determining the condition of protective coatings. 3,060,082, 11–27–62, Cl. 204—1.

Marsh, Herbert W. *See*—
Wilkin, Lester A., and Marsh. 3,034,880.

Marsh, James C. : *See*—
Juvinall, James W., and Marsh. 3,048,498.

Marsh, John C. Means for indicating or utilizing changes in tension of webs and the like. 3,044,052, 7–10–62, Cl. 340—259.

Marsh, John O., and D. M. Pohler, to The Walter Kidde Co. Ltd. Inflation devices. 3,056,540, 10–2–62, Cl. 230—95.

Marsh, Lyle, to Marien Metal Products. Fluid mixing apparatus. 3,054,600, 9–18–62, Cl. 259—67.

Marsh, Lyle, and G. Malkin, to Marien Metal Products Co., and Benjamin Moore & Co. Mixing and dispensing apparatus. 3,015,415, 1–2–62, Cl. 222—14.

Marsh, Lyle, and G. Malkin, to Marien Metal Products Co., and Benjamin Moore & Co. Dispensing pump with venting means. 3,023,936, 3–6–62, Cl. 222—235.

Marsh, Marvin P. Pliers with solder holding means. 3,024,-752, 3–13–62, Cl. 113—111.

Marsh, Myrle O., and H. C. Meeker, to General Electric Co. Stationary induction apparatus. 3,037,177, 5–29–62, Cl. 336—210.

Marsh, Richard O., and J. M. Tuomy, to United States of America, Army. Production of dehydrated flake meat. 3,067,043, 12–4–62, Cl. 99—208.

Marsh, Roger : *See*—
Henning, Robert W., and Marsh. 3,060,855.
Kopf, Rowland J., Henning, and Marsh. 3,029,435.
Kopf, Rowland J., and Marsh. 3,019,440.
Kopf, Rowland J., and Marsh. 3,055,625.
Kopf, Rowland J., and Marsh. 3,064,262.
Kopf, Rowland J., and Marsh. 3,066,303.

Marsh, Roger, to Olin Mathieson Chemical Corp. Fastening device. 3,021,746, 2–20–62, Cl. 85—10.

Marsh, Roger, R. J. Kopf, and R. W. Henning, to Olin Mathieson Chemical Corp. Powder actuated tool. 3,016,539, 1–16–62, Cl. 1—44.5.

Marsh Stencil Machine Co. : *See*—
Hempel, Herbert W. 3,024,725.

Marsh Wall Products, Inc. : *See*—
Schroeder, Carl A. 3,034,333.

Marsh, Walter H., to Rockwell Mfg. Co. Regenerative hydraulic torque multiplication system. 3,038,312, 6–12–62, Cl. 60—53.

Marsh, William C. : *See*—
Mishkin, Abraham R., and Marsh. 3,065,077.

Marsh, William R. : *See*—
Cantonwine, Elma E., and Marsh. 3,064,272.

Marshall, Arthur R. : *See*—
Cryderman, Wilfred G., and Marshall. 3,023,124.

Marshall, Bruce D., and H. C. Ehrmantraut. Device for use in determining gel forming time of blood. 3,020,748, 2–13–62, Cl. 73—53.

Marshall, Calvert D. Tool for replacing and removing keys on poppet valves. 3,065,528, 11–27–62, Cl. 29—249.

Marshall, Charles E., to Potter Instrument Co., Inc. Transistorized counter decade. 3,029,352, 4–10–62, Cl. 307—88.5.

Marshall, Charles E., to Potter Instrument Co. Inc. Surge protected transistor operated servo system. 3,043,997, 7–10–62, Cl. 318—28.

Marshall, David J., to American Home Products Corp. 1-dehydro-17α-bromo-6α-fluoroprogesterone. 3,040,066, 6–19–62, Cl. 260—397.4.

Marshall, David M., to The Babcock & Wilcox Co. Method and apparatus for burning fluent fuel. 3,032,097, 5–1–62, Cl. 158—11.

Marshall, David M., to The Babcock & Wilcox Co. Flame detector arrangements. 3,055,416, 9–25–62, Cl. 158—28.

Marshall, Denzil P. Sportsman's seat. 3,025,107, 3–13–62, Cl. 297—252.

Marshall, Donald E., Jr. : *See*—
Collins, Harold B., Jr., and Marshall. 3,069,505.

Marshall, Donald E., Jr., to Philco Corp. Synchronized oscillator control system. 3,046,490, 7–24–62, Cl. 331—1.

Marshall, Duncan. Diabetic's service kit. 3,058,584, 10–16–62, Cl. 206—63.2.

Marshall, Edward C., to American Tag Co. Marking fowl or the like. 3,021,653, 2–20–62, Cl. 53—74.

Marshall, Edward C., and H. C. McBriar, to American Tag Co. Price marking machine. 3,064,743, 11–20–62, Cl. 177—3.

Marshall, Fredrick J. : *See*—
Howells, Thomas E. 3,027,698.

Marshall, Gerald L. Toy. 3,017,185, 1–16–62, Cl. 273—96.

Marshall, John G. : *See*—
Hildon, Anthony M., and Marshall. 3,042,488.

Marshall, John W. Rotary compressors and like rotary machines. 3,066,851, 12–4–62, Cl. 230—150.

Marshall, Kenneth L., to Addressograph-Multigraph Corp. Printing machine. 3,059,922, 10–23–62, Cl. 271—36.

Marshall, Leona, to United States of America, Atomic Energy Commission. Mass separation of high energy particles. 3,056,023, 9–25–62, Cl. 250—41.9.

Marshall, Mervin D., and H. J. Hardwood, to Monsanto Chemical Co. Preparation of dialkyl phosphines. 3,031,509, 4–24–62, Cl. 260—606.5.

Marshall, Preston F., to The Kendall Co. Apparatus for making reinforced fabrics and the like. 3,039,170, 6–19–62, Cl. 28—1.

Marshall, Preston F., to The Kendall Co. Process and apparatus for making novelty yarn. 3,041,812, 7–3–62, Cl. 57—6.

Marshall, Robin D. : *See*—
Timmis, Geoffrey M., Hudson, Marshall, and Bierman. 3,041,241.

Marshall, Theodore W. : *See*—
Curran, Bernard E., Kautz, and Marshall. 3,059,564.

Marshall, Thomas A. Broad band active element for television arrays. 3,035,266, 5–15–62, Cl. 343—799.

Marshall, Walter R., to Union Carbide Corp. Method and apparatus for milling plastic material. 3,063,091, 11–13–62, 18—2.

Marshall, Walton H., Jr., to Conch International Methane Ltd. Heating cold fluids with production of energy. 3,068,659, 12–18–62, Cl. 62—52.

Marshall, Walton H., Jr., and W. C. Gains, to Conch International Methane Ltd. Adjusting the heating value and specific gravity of natural gas. 3,057,706, 10–9–62, Cl. 48—196.

Marshall, Wilfred J., and J. B. Horvay, to General Electric Co. Vacuum forming apparatus. 3,041,669, 7–3–62, Cl. 18—19.

Marshall, William R., Jr., to Proctor & Schwartz, Inc. Spray drying apparatus. 3,049,174, 8–14–62, Cl. 159—4.

Marshall and Williams Corp. : *See*—
Nash, John C. 3,023,479.
Nash, John C. 3,058,191.

Marshallan Mfg. Co.: *See*—
Crevol, Edward. 3,031,243.
Marshek, Francis M.: *See*—
Larson, Arne V., Marshek, Putzer, Schroeder, Wright, and Mann. 3,023,826.
Marsich, Joseph A. Musical instrument. 3,055,252, 9–25–62, Cl. 84—404.
Marsico, Corrado. Variable pitch fan. 3,054,458, 9–18–62, Cl. 170—160.45.
Marskell, Walter G., to The Babcock & Wilcox Co. Method of making a pressure-tight mechanical joint for operation at elevated temperatures. 3,018,547, 1–30–62, Cl. 29—507.
Marson Corp.: *See*—
Lewis, Louis S., and Cooper. 3,032,433.
Marston, Arthur E.: *See*—
Chait, Herman N., and Marston. 3,039,099.
Marston, Arthur E. Antenna system having beam control members consisting of array of spiral elements. 3,045,237, 7–17–62, Cl. 343—754.
Marston, Arthur E., H. P. Coleman, and J. A. Kaiser, Jr. Linearly polarized spiral antenna system and feed system therefor. 3,017,633, 1–16–62, Cl. 343—853.
Marston, Arthur E., and J. A. Kaiser, Jr., to United States of America, Navy. Spiral antenna array with polarization adjustment. 3,055,003, 9–18–62, Cl. 343—756.
Marston, Hedley R., to Commonwealth Scientific and Industrial Research Organization. Therapeutic pellet for ruminants. 3,056,724, 10–2–62, Cl. 167—53.
Marston, William H., and L. E. Dearborn. Vehicles. 3,033,-585, 5–8–62, Cl. 280—16.
Marszalek, Edward M. Anti-skid device for vehicle wheel. 3,027,928, 4–3–62, Cl. 152—237.
Mart, Leon T., to The Marley Co. One piece splash unit for the fill section of liquid cooling towers. 3,044,237, 7–17–62, Cl. 55—237.
Mar-Tay, Inc.: *See*—
Greathouse, Glen A., and Taylor. 3,023,144.
Marteil, Lucien R. Equipment for checking the wheels of motor vehicles. 3,029,515, 4–17–62, Cl. 33—46.
Martel, Bob E., to Texas Instruments Inc. Sweep synchronization system for infra-red ground-scanning devices. 3,069,-493, 12–18–62, Cl. 178—6.
Martel, Jacques: *See*—
Amiard, Gaston, Goffinet, Heymes, Martel, and Velluz. 3,035,064.
Amiard, Gaston, Martel, Heymes, and Velluz. 3,024,271.
Martel, Morris: *See*—
Gerber, Howard. 3,028,113.
Martell, Philias J.: *See*—
De Pellegrini, Albert J., and Martell. 3,043,343.
Martelli, Francesco: *See*—
Martelli, Guido, N., and F. 3,026,566.
Martelli, Guido, N., and F., to Compagnia Italiana Nestpack S.p.A. Rotary machine for the automatic vacuum forming of continuous thermoplastic bands. 3,026,566, 3–27–62, Cl. 18—19.
Martelli, Nerio: *See*—
Martelli, Guido, N., and F. 3,026,566.
Martelly, Julien, to Commissariat a l'Energie Atomique, Etablissement Public. Method and apparatus for the investigation of neutron propagating media. 3,042,803, 7–3–62, Cl. 250—83.1.
Martens, Charles R., to The Sherwin-Williams Co. Polymerizable composition containing unsaturated polyester, an acrylic ester, a monovinyl benzene and a vinyl ester of an alkyl carboxylic acid. 3,042,651, 7–3–62, Cl. 260—45.4.
Martens, Frederick H.: *See*—
Spinrad, Bernard L., Sandmeier, and Martens. 3,070,538.
Martens, Gunter, to Kienzle Apparate G.m.b.H. Electronic calculator. 3,021,066, 2–13–62, Cl. 235—160.
Martens, Harry H., to The Stanley Works. Curtain rod assembly with protective device for preventing snagging. 3,023,909, 3–6–62, Cl. 211—105.3.
Martens, Herbert A.: *See*—
Cross, Ralph E., and Martens. 3,025,728.
Martens, Jack E.: *See*—
Beatty, Eldon L., and Martens. 3,062,070.
Martens, Jack E., to The Anderson Co. Position-adjusting mechanism. 3,046,055, 7–24–62, Cl. 297—361.
Martens, Jack E., to The Anderson Co. Window actuator. 3,062,528, 11–6–62, Cl. 268—124.
Martens, Maurice J., to Deere & Co. Material unloader. 3,032,219, 5–1–62, Cl. 214—519.
Martensson, Erik M., to Svenska Aeroplan Aktiebolaget. Method and means for indicating fuel mileage. 3,058,340, 10–16–62, Cl. 73—114.
Marteasson, Erik M., to Svenska Aeroplan Aktiebolaget. Device for preventing reverse rotation of two-cycle engine. 3,065,285, 11–20–62, Cl. 123—146.5.
Mårtensson, Olle: *See*—
Stenvall, Gillis, and Mårtensson. 3,065,136.
Mårtensson, Olle, to Aktiebolaget Pharmacia. Manufacture of N,N-disubstituted amides of aryl acetic acids. 3,022,-302, 2–20–62, Cl. 260—247.7.
Marter, Andre: *See*—
Freier, Benno, and Marter. 3,036,010.
Marti, Frédéric, G. Braunschweig, and J. Schaad. Microphone for apparatus to check the rate of timepiece movements. 3,026,707, 3–27–62, Cl. 73—6.
Marti, Frédéric, G. Braunschweig, and J. Schaad. Microphone for a apparatus to check the rate of timepieces. 3,026,708, 3–27–62, Cl. 73—6.
Marti, Paul O., Jr., to Standard Oil Co. Temperature rise retardation of surfaces exposed to heat. 3,054,258, 9–18–62, Cl. 60—39.47.
Martin, Albert E.: *See*—
Cope, Geoffrey W., and Martin. 3,021,017.
Martin, Albert E., to Sir Howard Grubb Parsons & Co. Ltd. Grating spectrometers or analysers. 3,015,984, 1–9–62, Cl. 88—14.
Martin, Albert E., to Sir Howard Grubb Parsons & Co. Ltd. Grating monochromators. 3,062,089, 11–6–62, Cl. 88—14.
Martin, Alfred J.: *See*—
Brown, Alexander B., Martin, and Morrow. 3,065,117.
Martin, Allan E., I. Johnson, L. Burris, Jr., I. O. Winsch, and H. M. Feder, to United States of America, Atomic Energy Commission. Separation of uranium, plutonium and fission products from neutron-bombarded uranium. 3,063,830, 11–13–62, Cl. 75—84.1.
Martin, Andre A., to Brown, Boveri & Cie, Aktiengesellschaft. Accumulator. 3,055,227, 9–25–62, Cl. 74—97.
Martin, Arthur P.: *See*—
Myers, Lawrence B. 3,029,107.
Martin, Arthur T., and N. S. Temple, to Economics Laboratory, Inc. Defoaming detergent composition. 3,048,548, 8–7–62, Cl. 252—135.
Martin, Bernard P.: *See*—
Waite, Virgil H., and Martin. 3,017,333.
Martin, Cecil G., and R. L. Cummings, to Thompson Ramo Wooldridge Inc. Turbo-fan lift device. 3,023,980, 3–6–62, Cl. 244—4.
Martin, Cecil G., and H. H. Humpal, to Thompson Ramo Wooldridge Inc. Reactor control rod actuating system. 3,043,762, 7–10–62, Cl. 204—193.2.
Martin, Charles R.: *See*—
Abbott, Henry H., Martin, Olsen, Previte, and H. J. and J. G. Walsh. 3,037,087.
Abbott, Henry H., Martin, and Walsh. 3,037,086.
Martin, Cletis P. Awning vent window. 3,027,823, 4–3–62, Cl. 98—88.
Martin, Clyde G., and L. T. McHue, to Conforming Matrix Corp. Painting machine. 3,026,843, 3–27–62, Cl. 118—313.
Martin, Covis M. Loom stop mechanism. 3,016,070, 1–9–62, Cl. 139—336.4.
Martin, Dalton W.: *See*—
Babrs, George S., McWhorter, and Martin. 3,022,469.
Martin, Dana W., to Norton Co. Grinding machine. 3,019,-563, 2–6–62, Cl. 51—50.
Martin, Daniel W., to The Baldwin Piano Co. Sound distribution system. 3,039,346, 6–19–62, Cl. 84—1.08.
Martin-Decker Corp.: *See*—
Decker, Elmer L., and McNeill. 3,045,480.
Martin, Donald J.: *See*—
Grant, Arthur W., and Martin. 3,067,506.
Martin, Donald L., to Collins Radio Co. Digital phase-pulse detector. 3,024,420, 3–6–62, Cl. 329—104.
Martin, Donald W.: *See*—
Andersen, Gordon W., Hill, and Martin. 3,026,494.
Martin, Douglas H.: *See*—
Cox, Robert P., and Martin. 3,057,807.
Martin, Earl C., to Western Electric Co., Inc. Article assembling apparatus. 3,045,337, 7–24–62, Cl. 29—211.
Martin, Edward G.: *See*—
Chance, Franklin S., and Martin. 3,053,733.
Hermann, Le Roy N. 3,059,733.
Tripp, Burrell H. 3,059,734.
Martin, Edward J.: *See*—
Chapman, Frederick W., Hanysz, Weller, and Martin. 3,022,451.
Martin, Elbert H., to Sonoco Products Co. Multi-container package. 3,039,601, 6–19–62, Cl. 206—47.
Martin, Elmore L., to E. I. du Pont de Nemours and Co. Preparation of tetracyanoethylene and chlorotricyanoethylene from dichlorodicyanoethylene. 3,026,348, 3–20–62, Cl. 260—465.8.
Martin, Elmore L., to E. I. du Pont de Nemours and Co. Process for the preparation of dicyanoacetylene. 3,070,622, 12–25–62, Cl. 260—465.8.
Martin, Eric, to Omega Industries, Inc. Method and apparatus for finishing surfaces. 3,049,788, 8–21–62, Cl. 29—90.
Martin, Eric F.: *See*—
Powell, Roger F., Martin, Lurie, Nichol, and Brand. 3,031,461.
Powell, Roger F., Martin, Lurie, Nichol, and Brand. 3,034,648.
Martin, Ernest M.: *See*—
Schwartz, Daniel M., and Martin. 3,064,781.
Martin, Ernest N.: *See*—
Suggs, Lee G., and Martin. 3,038,492.
Martin, Ernest N., J. Bartle, and C. B. Crowther, to Imperial Chemical Industries Ltd. Automatic control and operation of chemical or physical processes. 3,031,267, 4–24–62, Cl. 23—198.
Martin, Eugene C.: *See*—
Binning, Robert C., Jennings, and Martin. 3,035,060.
Martin, Eugene C., and J. F. Jennings, to Standard Oil Co. Hydrolysis of polyvinyl esters. 3,066,121, 11–27–62, Cl. 260—91.3.
Martin, Eugene E.: *See*—
Erzer, John K., and Martin. 305,361.

Martin, Ferdinand C. Method of producing concrete block. 3,060,542, 10–30–62, Cl. 25—154.
Martin, Frank A.: *See*—
Cobble, William H., and Martin. 3,027,929.
Martin, Frank S., R. C. Kohrn, and G. Hicks, Jr., to United States Rubber Co. Laminated boat construction. 3,041,220, 6–26–62, Cl. 154—45.9.
Martin, Frank S., and E. L. Silcox, to United States Rubber Co. Solventless extrusion method for making shaped microporous articles from thermoplastic resinous material. 3,060,512, 10–30–62, Cl. 18—48.
Martin, Fred N.: *See*—
Harris, Lionel R. F., and Martin. 3,046,345.
Martin, Frederick W., to The Bendix Corp. Leak test equipment. 3,031,884, 5–1–62, Cl. 73—40.
Martin, George E.: *See*—
Weickgenannt, Egon R., and Martin. 3,041,119.
Martin, George L.: *See*—
Keller, Wayne H., and Martin. 3,031,295.
Martin, George M.: *See*—
Phillips, Daniel B., and Martin. 3,031,905.
Martin, George M., to M. D. Martin. Backlash preventing gears for coupled driven and drive shafts. 3,037,396, 6–5–62, Cl. 74—409.
Martin, George M., to M. D. Martin. Device for forming holes in blanks. 3,060,816, 10–30–62, Cl. 93—58.2.
Martin, Georges, Etablissements: *See*—
Bricout, Henri. 3,027,973.
Martin, Gustav J.: *See*—
Avakian, Souren, and Martin. 3,058,981.
Martin, Harold W.: *See*—
Ernst, John M., Gruss, and Martin. 3,025,061.
Martin, Harry D.: *See*—
Dowie, Douglas W., and Martin. 3,029,169.
Martin, Heinz: *See*—
Ziegler, Karl, Breil, Holzkamp, and Martin. 3,070,549.
Martin, Henry, and H. Aebi, to Ciba Ltd. Phenyl ether-ureas. 3,060,235, 10–23–62, Cl. 260—553.
Martin, Henry E., to United Aircraft Corp. Speed responsive fuel control for helicopters. 3,046,450, 7–24–62, Cl. 317—5.
Martin, Henry E., to United Aircraft Corp. Lag circuit. 3,052,857, 9–4–62, Cl. 333—70.
Martin, Henry J.: *See*—
Kretschmer, Charles H., Jr., and Martin. 3,036,919.
Martin, Henry W., and A. J. Johnson, to Amot Controls Corp. Relay control system and indicating relay therefor. 3,038,439, 6–12–62, Cl. 116—117.
Martin, Hollinshead T., and R. H. Laughlin, to Signode Steel Strapping Co. Feeding device. 3,042,282, 7–3–62, Cl. 226—190.
Martin, Howard F., ¼ to R. G. Gump and ¼ to R. E. Gump. Fishing float or lure. 3,045,381, 7–24–62, Cl. 43—26.2.
Martin, Irving E., to Radio Corp. of America. Vacuum seal for electron tubes. 3,024,300, 3–6–62, Cl. 174—50.61.
Martin, Isaac M. Wheel adapter. 3,025,109, 3–13–62, Cl. 301—9.
Martin, James. Multiservice connector devices for the occupants of aircraft. 3,032,299, 5–1–62, Cl. 244—122.
Martin, James. Ejection seats for aircraft. 3,036,796, 5–29–62, Cl. 244—122.
Martin, James. Cutter unit primarily for use in ejection seats for aircraft. 3,036,798, 5–29–62, Cl. 244—141.
Martin, James. Means for releasing a subsidiary body from a main body in flight. 3,036,799, 5–29–62, Cl. 244—141.
Martin, James. Aircraft seats and harness for airmen. 3,052,432, 9–4–62, Cl. 244—122.
Martin, James. Parachute apparatus. 3,055,621, 9–25–62, Cl. 244—142.
Martin, James C.: *See*—
Caldwell, John R., and Martin. 3,017,388.
Caldwell, John R., and Martin. 3,053,804.
Elam, Edward U., Hasek, and Martin. 3,017,395.
Martin, James C., to Eastman Kodak Co. Method of preparing β-lactones of 2,2,4,4-tetraalkyl-3-hydroxy-3-butenoic acids by catalyzed reaction of dialkylketenes. 3,062,836, 11–6–62, Cl. 260—343.9.
Martin, James C., and E. U. Elam, to Eastman Kodak Co. Linear polyurethanes from 2,2,4,4,-tetraalkyl-1,3-cyclobutanediols. 3,038,884, 6–12–62, Cl. 260—77.5.
Martin, James C., and K. C. Brannock, to Eastman Kodak Co. Plastic composition comprising polyvinyl chloride and an ester of 2,2,4,4-tetra alkyl cyclobutane-1,3-diol. 3,043,791, 7–10–62, Cl. 260—31.6.
Martin, James C., and K. C. Brannock, to Eastman Kodak Co. Cellulose esters plasticized with esters of 2,2,4,4-tetraalkylcyclobutane-1,3-diols. 3,053,679, 9–11–62, Cl. 106—180.
Martin, James C., and K. C. Brannock, to Eastman Kodak Co. Esters of 2,2,4,4-tetraalkylcyclobutane-1,3-diols. 3,062,852, 11–6–62, Cl. 260—410.
Martin, James G., J. L. Ernst, C. J. Jankowski, and A. A. Schetelich, to Esso Research and Engineering Co. Preventing scorch in butyl rubber compositions. 3,023,195, 2–27–62, Cl. 260—79.5.
Martin, James L. Swimming paddle. 3,052,897, 9–11–62, Cl. 9—24.
Martin, James R., to Leesona Corp. Winding machine. 3,069,104, 12–18–62, Cl. 242—18.
Martin, Jasper J. Building construction and elements therefor. 3,058,551, 10–16–62, Cl. 189—34.
Martin, Jerry N., to Xerox Corp. Transfer of xerographic dye images. 3,060,052, 10–23–62, Cl. 117—17.5.
Martin, John A., to Carrier Stephens Co. Carboy crate. 3,061,135. 10–30–62, Cl. 220—19.
Martin, John C., to Diesel Equipment Ltd. Means for controlling liquid fuel delivery from vehicles. 3,069,052, 12–18–62, Cl. 222—30.
Martin, John E., to Tampo Mfg. Co., Inc. Vibratory compacting device. 3,053,157, 9–11–62, Cl. 94—50.
Martin, John F.: *See*—
Phelon, Russell E., and Martin. 3,026,075.
Martin, John H. Combination drill collar and turbine driven bit. 3,021,910, 2–20–62, Cl. 175—25.
Martin, John K., to Fabricacion De Maquinas, S.A. Decorating apparatus for ceramic flatware. 3,054,345, 9–18–62, Cl. 101—123.
Martin, John L., E. W. Cauffman, and S. L. Parker, to Parker Feeders, Inc. Feed diverter for a livestock feeder. 3,029,925, 4–17–62, Cl. 188—64.
Martin, John O.: *See*—
Root, Andrew A., and Martin. 3,038,593.
Martin, John T.: *See*—
Hall, James H., Jr., and Martin. 3,039,563.
Martin, John W., and A. G. Walters, to Minister of Supply, in Her Majesty's Government of the United Kingdom of Great Britain and Northern Ireland. Liner for cooling rocket motors. 3,069,845, 12–25–62, Cl. 60—35.6.
Martin, Joseph, to Eclipse Sleep Products, Inc. Border stabilizers. 3,022,521, 2–27–62, Cl. 5—351.
Martin, Kenneth B.: *See*—
Hardy, Richard J., Martin, and Jacobs. 3,054,289.
Martin, Kenneth V., to E. I. du Pont de Nemours and Co. Preparation of fluorosulfur compounds. 3,048,629, 8–7–62, Cl. 260—544.
Martin, Lincoln A. Method for processing seismograms. 3,048,846, 8–7–62, Cl. 346—1.
Martin, Lucien J. A. Multi-stage toy missile. 3,045,392, 7–24–62, Cl. 46—228.
Martin, Margaret E. *See*—
Sweeney, James P., and Martin. 3,044,882.
Martin-Marietta Corp.: *See*—
Bach, Henry J. 3,043,714.
Barchet, Reinhold J. 3,031,388.
Bearse, Arthur E., Hillenbrand, and Grotta. 3,041,349.
Bell, William C., and Luiacono. 3,059,603.
Brown, Chauncey T. 3,063,442.
Chantler, Lewis W., and Hund. 3,030,216.
Chantler, Lewis W., and Hund. 3,030,217.
Chantler, Lewis W., and Hund. 3,047,411.
Chester, Milton A. 3,047,257.
Cooke, Conrad H., and Hill. 3,042,343.
Cox, Robert L., Jr. 3,053,488.
Dix, George P. 3,021,273.
Drewes, Menke, Jr. 3,044,275.
Esswein, Edward J., Jr., and Barr. 3,030,229.
Frantz, William, and Johnston. 3,017,865.
Higginbotham, John W. 3,042,875.
Higginbotham, John W. 3,049,627.
Ida, Noble N. 3,020,154.
Ida, Noble N., and Mueller. 3,031,392.
La Barge, Robert F. 3,030,295.
Leutner, Frederick S. 3,041,302.
Michael, Vilo G. 3,015,345.
Multhopp, Hans. 3,018,982.
Multhopp, Hans. 3,018,987.
Nelson, Keith. 3,024,124.
Perricci, Thomas G. 3,018,627.
Precht, Walter, Geckle, and Frank. 3,015,615.
Rebernak, Adolph. 3,038,188.
Reis, Herbert J., and Kudo. 3,019,439.
Reymann, George L., and Bach. 3,040,781.
Roeser, Gerald P. 3,070,564.
Rose, Chester J., and Magyar. 3,032,332.
Sheeran, Norman J. 3,058,835.
Shipley, Charles W., Lawrence, and Wasilisin. 3,037,592.
Snapp, John M., and Sparrow. 3,052,749.
Taborsky, Stanley. 3,017,621.
Voigt, Woldemar. 3,018,985.
Wirsing, Charles E., Jr. 3,030,703.
Womble, Glenn F. 3,043,645.
Yeomans, Clive M., Engberg, and Taylor. 3,038,846.
Martin-Marietta Corp., Stoner-Mudge Co. Division: *See*—
Morrison, James G. 3,041,300.
Martin, Merrill D.: *See*—
Martin, George M. 3,037,396.
Martin, George M. 3,060,816.
Martin, Mervin E.: *See*—
Wayman, Morris, Martin, and Graf. 3,067,107.
Womble, Glenn F. 3,053,604.
Martin, Norman L., to Locke Stove Co. Incinerator. 3,043,248, 7–10–62, Cl. 110—8.
Martin, Ogden L. Land, water and air vehicle. 3,029,042, 4–10–62, Cl. 244—2.
Martin, Paul A.: *See*—
Mellinger, John C., and Martin. 3,040,440.
Martin, Paul C.: *See*—
White, Isaac J., and Martin. 3,046,642.
Martin, Paul J., and A. H. Moehl, to United States Steel Corp. Open hearth furnace. 3,061,295, 10–30–62, Cl. 263—46.

Martin, Paul S., to Federal Pacific Electric Co. Circuit breakers and enclosures therefor. 3,046,453, 7–24–62, Cl. 317—119.
Martin, Paul S. Counters and read-outs. 3,062,441, 11–6–62, Cl. 235—92.
Martin, Peter: *See*—
Deacon, William, Golesworthy, Hartley, and Martin. 3,029,718.
Martin, Philip, to United Engineering Mfg. Co. Street brush construction. 3,050,763, 8–28–62, Cl. 15—197.
Martin, Philip W., and S. G. Stroud. Nuclear analytical apparatus. 3,020,408, 2–6–62, Cl. 250—84.5.
Martin, Pierre, to Compagnie Parisienne d'Outillage a Air Comprime. Servo-assisted shut-off device. 3,051,198, 8–28–62, Cl. 137—625.27.
Martin, Ray C., to Burgess Cellulose Co. Process for incorporating resins into paper. 3,036,950, 5–29–62, Cl. 162—165.
Martin, Raymond E.: *See*—
Korski, Frank S., and Martin. 3,017,906.
Martin, Raymond N.: *See*—
Bessette, Albert R., and Martin. 3,049,741.
Martin, Raymond S., to General Electric Co. Electrical device and dielectric material therefor. 3,025,440, 3–13–62, Cl. 317—258.
Martin, Richard F.: *See*—
Hallene, Alan M., and Martin. 3,033,306.
Hallene, Alan M., and Martin. 3,043,401.
Martin, Richard H., Jr., to Monsanto Chemical Co. Copolymers. 3,025,272, 3–13–62, Cl. 260—78.3.
Martin, Richard H., Jr., to Monsanto Chemical Co. Polymerization process for vinyl chloride and polyallyl ethers. 3,025,280, 3–13–62, Cl. 260—87.5.
Martin, Richard H., Jr., to Monsanto Chemical Co. Vinyl chloride interpolymers with allyl esters of beta substituted aerylic acid. 3,043,814, 7–10–62, Cl. 260—87.1.
Martin, Richard H., Jr., to Monsanto Chemical Co. Copolymers of vinyl chloride. 3,043,816, 7–10–62, Cl. 260—87.5.
Martin, Richard H., Jr., to Monsanto Chemical Co. Binary vinyl chloride copolymers. 3,047,549, 7–31–62, Cl. 260—875.
Martin, Richard H., Jr., to Monsanto Chemical Co. Binary interpolymers of vinyl chloride. 3,047,550, 7–31–62, Cl. 260—87.5.
Martin, Richard W.: *See*—
Skupas, John A., Godwin, and Martin. 3,032,805.
Martin, Robert A.: *See*—
Hager, Onslow B., and Martin. 3,070,561.
Martin, Robert A., and E. G. Matkins, to General Motors Corp. Automatic headlamp control system. 3,026,446, 3–20–62, Cl. 315—82.
Martin, Robert C., to The Dow Chemical Co. Well fracturing. 3,044,959, 7–17–62, Cl. 252—8.55.
Martin, Robert E.: *See*—
Hecox, William, and Martin. 3,061,026.
Martin, Robert L., to The Weatherproof Products Corp. Power apparatus for windows and the like. 3,022,065, 2–20–62, Cl. 268—124.
Martin, Robert W., to Shell Oil Co. Hydroxy-substituted polyethers, their derivatives and preparation. 3,052,640, 9–4–62, Cl. 260—2.
Martin, Robert W., and R. D. Sullivan, to Shell Oil Co. Polynuclear polyphenols. 3,062,895, 11–6–62, Cl. 260—619.
Martin, Roger: *See*—
Roche, Roland L., and Martin. 3,061,532.
Martin, Roger, to Commissariat a l'Energie Atomique. Moderator block construction for nuclear reactors. 3,069,343, 12–18–62, Cl. 204—193.2.
Martin, Roger, and M. Moulin, to Commissariat a l'Energie Atomique. Devices for introducing elements, and in particular fuel rods into nuclear reactors and/or for withdrawing such elements from said reactors. 3,025,226, 3–13–62, Cl. 204—154.2.
Martin, Ronald J., to The British Petroleum Co. Ltd. Method of cleaning heat exchangers. 3,054,700, 9–18–62, Cl. 134—2.
Martin, Royce H. Fletching jig. 3,015,483, 1–2–62, Cl. 269—38.
Martin, Samuel M., to Western Electric Co., Inc. Apparatus for distributing a strand into a rotatable open-topped receiver. 3,052,010, 9–4–62, Cl. 28—21.
Martin, Sterling T., and S. B. Spracklen, to Union Carbide Corp. Precision temperature controller. 3,051,392, 8–28–62, Cl. 236—13.
Martin, Theodore T.: *See*—
Lummus, James L., and Martin. 3,050,141.
Martin, Thomas: *See*—
Roberts, Elwyn, and Martin. 3,043,878.
Martin, Thomas A.: *See*—
Hunter, Joseph L., and Martin. 3,056,880.
Martin, Thomas B.: *See*—
Lindsay, James E., and Martin. 3,018,391.
Martin, Thomas B. Emergency ram air power supply. 3,064,942, 11–20–62, Cl. 253—59.
Martin, Verner L. Back brace. 3,029,810, 4–17–62, Cl. 128—78.
Martin, Walter C., to Philco Corp. Ignition system. 3,047,728, 7–31–62, Cl. 307—10.
Martin, Warren W.: *See*—
Hinkein, Donald J., and Martin. 3,067,937.
Martin, Wayne A., to Lyon Inc. Manufacture of missile casings. 3,032,858, 5–8–62, Cl. 29—1.21.
Martin, Wesley G.: *See*—
Thomsen, Richard N., and Martin. 3,050,891.
Martin, Wesley G., to A. O. Smith Corp. Method of forming a prestressed article of fiber reinforced resin. 3,033,730, 5–8–62, Cl. 154—83.
Martin, Weslye L., to The Bendix Corp. Navigation device. 3,043,907, 7–10–62, Cl. 178—6.8.
Martin, Wilferd W. Trotline reel. 3,022,601, 2–27–62, Cl. 43—54.5.
Martin, William A.: *See*—
Babcock, David L., and Martin. 3,062,119.
Brown, Morris E., and Martin. 3,043,181.
Martin, William A., to Eastman Kodak Co. Mechanism for operation of zoom lens. 3,062,102, 11–6–62, Cl. 88—57.
Martin, William E.: *See*—
Elenburg, Cecil L. 3,052,049.
Martin, William E., to Hyster Co. Latching trailer gooseneck. 3,030,126, 4–17–62, Cl. 280—425.
Martin, William L.: *See*—
Dew, John N., and Martin. 3,054,448.
Martin, William M. Aseptic canning. 3,041,185, 6–26–62, Cl. 99—182.
Martin, William M., Jr. Hydro-sizing apparatus for agricultural produce. 3,023,808, 3–6–62, Cl. 209—82.
Martin, William McK. Aseptic canning process and apparatus. 3,018,184, 1–23–62, Cl. 99—182.
Martin, Willibald. Inflatable mooring buoy. 3,049,732, 8–21–62, Cl. 9—8.
Martina, Eugene F., to American Radiator & Standard Sanitary Corp. Ion source and plasma generator. 3,020,431, 2–6–62, Cl. 313—63.
Martinak, Norbert, to Dr. Leopold Jungfer, Akkumulatorenfabrik. Separators for electric accumulators, especially lead accumulators, and process of manufacture thereof. 3,045,058, 7–17–62, Cl. 136—146.
Martindale Electric Co. Ltd.: *See*—
Stanley, Frederic R. 3,033,200.
Martindell, Frank, to Ferracute Machine Co. Work-piece ejector for coining presses. 3,053,122, 9–11–62, Cl. 78—41.
Martindell, Paul A., to Aceweb Tool & Mfg. Co. Universal spotting machine. 3,046,667, 7–31–62, Cl. 33—174.
Martinez, Eugene F., to Health-Mor, Inc. Vibrator attachment for suction cleaner. 3,052,234, 9–4–62, Cl. 128—32.
Martinek, George A.: *See*—
Fritz, Charles H., and Martinek. 3,038,172.
Woodson, Thomas T., Martinek, and Macias. 3,044,715.
Martinek, Josef, to Zavody presneho strojirenstvi Lisen narodni podnik zavod Antonina Zapotockeho. Forging of rings and similar parts. 3,046,653, 7–31–62, Cl. 29—552.
Martinek, Rudolph F., and P. Meyer. Orthodontic appliance. 3,036,385, 5–29–62, Cl. 32—14.
Martinek, Thomas W., to The Pure Oil Co. Process for the production of metal N-substituted carbamate salts. 3,056,820, 10–2–62, Cl. 260—429.7.
Martinek, Thomas W., to The Pure Oil Co. Method for preparing colloidal dispersions. 3,061,544, 10–30–62, Cl. 252—32.
Martinek, Thomas W., to The Pure Oil Co. Conversion of ammonium carbamates to alkali metal Carbamates. 3,061,637, 10–30–62, Cl. 260—500.
Martinek, Thomas W., to The Pure Oil Co. Lubricating compositions. 3,067,136, 12–4–62, Cl. 252—32.
Martinelli, Anthony J.: *See*—
Azorlosa, Julian L., and Martinelli. 3,062,737.
Martinelli, Pierre P., to Commisariat a l'Energie Atomique, Apparatus for measuring the thickness of a deposit. 3,056,027, 9–25–62, Cl. 250—83.6.
Martines, Joseph, to Louis Rich Machine Corp. Apparatus for sewing on buttons. 3,036,534, 5–29–62, Cl. 112—111.
Martinet, Jacques R., to Kaiser Aluminum & Chemical Corp. Dolomite furnace lining with carbonaceous bond. 3,058,736, 10–16–62, Cl. 266—43.
Martinez, Henry: *See*—
Kennedy, Edward, Martinez, Paprzycki, and Stabilito. 3,028,713.
Kennedy, Edward, Martinez, Paprzycki, and Stabilito. 3,064,406.
Martinez, Leo. Device for regulating and removing windows in car doors. 3,061,363, 10–30–62, Cl. 296—44.
Martinez, Mario, to Barron and Crowther Ltd. Apparatus for coiling wire. 3,029,039, 4–10–62, Cl. 242—82.
Martinez, Pedro, to Pye Ltd. Television apparatus. 3,055,9–18–62, Cl. 178—7.1.
Martinez, Rafael. Automobile parking system. 3,057,487, 10–9–62, Cl. 214—16.1.
Martinez, Sergio A. Bib like protective devices. 3,042,930, 7–10–62, Cl. 2—49.
Martini, Arthur H. Hygienic spray toilet seat. 3,044,076, 7–17–62, Cl. 4—7.
Martini, Leo A. Apparatus for drilling wells. 3,065,805, 11–27–62, Cl. 175—56.
Martiniak, Leonard J., to General Electric Co. Dishwashing apparatus. 3,064 665, 11–20–62, Cl. 134—176.
Martinoli, Edoardo, and C. Meier, to Brevets Aero-Mecaniques S.A. Rockets carried in clusters by a launching machine and in particular an aircraft. 3,059,541, 10–23–62, Cl. 89—1.7.
Martinson, Carl R., to Monsanto Chemical Co. Corrosion-inhibited liquid fertilizer compositions. 3,024,099, 3–6–62, Cl. 71—34.
Martinson, Royden H. Weed, etc., guard for outboard motors. 3,025,825, 3–20–62, Cl. 115—42.

Martinuzzi, Pio F.: *See*—
De Kanski, Leon M., Dinsmoor, Guinard, and Martinuzzi.
3,036,104.

Martiny, Keith C.: *See*—
Kraus, James J., and Martiny. 3,061,944.

Martner, Samuel T., and N. R. Sparks, to Pan American Petroleum Corp. Seismic weathering correction. 3,065,-814. 11–27–62. Cl. 181—.5.

Marton, Ladislaus L., and J. A. Simpson, to United States of America, Commerce. Electrostatic filter lens or mirror. 3,069,592. 12–18–62. Cl. 315—17.

Martorelli, Frank. Dispenser tap. 3,052,386. 9–4–62. Cl. 222—517.

Maruch, Leon P. Fly fishing line. 3,043,045. 7–10–62. Cl. 43—44.98.

Martyn, Lloyd G.: *See*—
Dick, Louis A., and Martyn. 3,069,572.

Martyny, William C., to General Electric Co. Halophosphate phosphor treatment process. 3,047,512. 7–31–62. Cl. 252—301.4.

Martz, Arthur F., Jr., and A. L. Wennerberg, to Whirlpool Corp. Transistor control circuit. 3,031,855. 5–1–62. Cl. 62—3.

Maruhn, Herbert F. W., to Daimler-Benz Aktiengesellschaft. Wheel suspension for motor vehicles. 3,024,041. 3–6–62. Cl. 280—106.5.

Marullo, Gerlando, and E. Fornasieri, to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Reactor for preparing melamine. 3,030,193. 4–17–62. Cl. 23—290.

Marullo, Gerlando, and G. Perri, to Societa Montecatini Generale per l'Industria Mineraria e Chimica. Process for separation of schoenite from sodium chloride by means of flotation. 3,049,233. 8–14–62. Cl. 209—166.

Marullo, Gerlando, M. Agamennone, and L. Corsi, to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Process for preparing carbonyl compounds from olefines. 3,052,724. 9–4–62. Cl. 260—604.

Marullo, Gerlando, G. Perri, and G. Tubiello, to Montecatini, Societa Generale per l'Industria Mineraria e Chimica. Process for concentrating kainite by means of flotation. 3,069,773. 12–25–62. Cl. 209—166.

Marullo, Gerlando, G. Lazzari, and G. Alessandrini, to Montecatini-Societa Generale per l'Industria Mineraria e Chimica. Process for converting nitrosyl chloride to nitrogen oxide and an aqueous solution of acids. 3,069,233. 12–18–62. Cl. 23—157.

Marumo, Hirofuto: *See*—
Kamada, Hideo, Wakaki, Shigetoshi, Tomioka, Ueyama, Uzu, Marumo, and Fujimoto. 3,044,935.

Maruyama, Kunimori, to Minoru Okada. Vacuum-actuated, remote control apparatus for opening and closing motor vehicle doors. 3,061,362. 10–30–62. Cl. 296—44.

Maruzen Kabushiki Kaisha: *See*—
Kusama, Shojiro. 3,032,802.

Marvel Engineering Co.: *See*—
Thomas, William A. 3,056,379.

Marvel Equipment Corp.: *See*—
Juculano, Theodore C. 3,028,928.

Marvin, James H. Aquarium filter system. 3,035,702. 5–22–62. Cl. 210—169.

Marvin, John, and E. E. Anderson, to Pet Kitchens, Inc. Animal food from clam waste. 3,017,273. 1–16–62. Cl. 99—7.

Marvin, John, E. E. Anderson, and J. H. Tichenor, to Saltesea Packing Co. Process for preparing an edible clam product. 3,041,178. 6–26–62. Cl. 99—111.

Marvin, John T., to General Motors Corp. Electrostatic paint spray. 3,017,114. 1–16–62. Cl. 239—3.

Marvin Landplane Co.: *See*—
Marvin, Ralph T., and Rocksvold. 3,036,392.

Marvin, Ralph T., and A. N. Rocksvold, to Marvin Landplane Co. Telescoping land leveler. 3,036,392. 5–29–62. Cl. 37—180.

Marwil, Stanley J.: *See*—
Bergman, William E., Marwil, and Engle. 3,025,965.

Marwil, Stanley J., to Phillips Petroleum Co. Separation by crystallization. 3,050,952. 8–28–62. Cl. 62—58.

Marwing, Kenneth G.: *See*—
Greenough, John F., Hampson, Halton, and Marwing. 3,067,290.

Marx, David H. Bowling alley. 3,046,012. 7–24–62. Cl. 273—51.

Marx, Frederick, Sr. Flat iron holder. 3,052,439. 9–4–62, Cl. 248—117.2.

Marx, Georg, to Telefunken G.m.b.H. Multiple-gap gas discharge tube. 3,070,718. 12–25–62. Cl. 313—1.

Marx, Graham E.: *See*—
Walter, John M., and Marx. 3,040,632.

Marx, John W.: *See*—
Frey, Frederick E., Crawford, and Marx. 3,034,580.
Parker, Harry W., and Marx. 3,053,680.
Parker, Harry W., and Marx. 3,061,451.
Parker, Harry W., Marx, and Trantham. 3,035,638.

Marx, John W., to Phillips Petroleum Co. Prevention of H_2O invasion of in situ combustion zones. 3,016,953. 1–16–62. Cl. 166—11.

Marx, John W., to Phillips Petroleum Co. Consolidating incompetent rock formations. 3,070,159. 12–25–62. Cl. 166—11.

Marx, John W., R. H. Langenheim, H. O. Dixon, and J. C. Trantham, to Phillips Petroleum Co. In situ combustion process. 3,019,837. 2–6–62. Cl. 166—11.

Marx, Leo A. Truck driver protection shield. 3,049,363, 8–14–62. Cl. 280—150.

Marx, Louis, & Co., Inc.: *See*—
Carver, Richard. 3,032,924.
Cook, Calvin S. 3,015,186.
Cook, Calvin S., Hirsch, Lohr, and Rees. 3,040,461.
Gardner, Frank P. 3,063,108.
Hirsch, Mahlon E., and Lohr. 3,045,377.
Hirsch, Mahlon E., and Lohr. 3,057,102.
Lohr, Raymond J. 3,043,592.
Rexford, Willis E. 3,033,983.

Marx, Michael: *See*—
Allen, George R., Marx, and Weiss. 3,021,347.
Litynski, Raymond S., and Marx. 3,046,465.
Origoni, Victor E., and Marx. 3,060,175.

Marx, Michael, and L. L. Smith, to American Cyanamid Co. 21-nitrogen substituted steroids of the pregnane series and methods of preparing the same. 3,020,275. 2–6–62, Cl. 260—239.5.

Marx, Michael F., to General Electric Co. Stall and high speed buffeting limiter for aircraft. 3,015,458. 1–2–62, Cl. 244—77.

Marx, Rozalia: *See*—
Bruma, Marc, and Marx. 3,028,541.

Marxer, Adrian, to Ciba Corp. New quinone derivatives and process for preparing same. 3,040,030. 6–19–62. Cl. 260—239.

Marxer, Adrian, to Ciba Corp. 2:6-dialkyl-4:8-dihydroxybenzo[1:2:4:5]bisimidazoles and the corresponding quinones. 3,060,188. 10–23–62. Cl. 260—309.2.

Mary, Francis J., to Babcock & Wilcox Ltd. Steam turbine power plant. 3,048,017. 8–7–62. Cl. 60—67.

Maryland Shipbuilding and Drydock Co.: *See*—
Gardner, Kenneth E., Veltre, and Gerich. 3,064,612.

Marzali, Mario P. Feeding apparatus. 3,031,151. 4–24–62, Cl. 242—54.

Marzocchi, Alfred: *See*—
Caroselli, Remus F., Marzocchi, and Billett. 3,029,589.
Caroselli, Remus F., Marzocchi, and Billett. 3,029,590.
Thomas, John H., and Marzocchi. 3,044,146.

Marzocchi, Alfred, to Owens-Corning Fiberglas Corp. Method for cleaning and coating fibrous glass. 3,065,103. 11–20–62, Cl. 117—54.

Marzocchi, Alfred, and G. E. Rammel, to Owens-Corning Fiberglas Corp. Fibrous glass and method of making. 3,063,773. 8–8–62. Cl. 154—43.

Marzocchi, Alfred, and H. L. Haynes, to Owens-Corning Fiberglas Corp. Glass fiber yarns and compositions for use in the manufacture of same. 3,040,413. 6–26–62, Cl. 28—75.

Marzocchi, Alfred, and G. E. Rammel, to Owens-Corning Fiberglas Corp. Yarns of staple glass fibers and compositions and methods for manufacturing same. 3,042,544, 7–3–62. Cl. 117—72.

Marzocchi, Alfred, J. A. Waugh, and A. E. Beaudoin, to Owens-Corning Fiberglas Corp. Glass reinforced gypsum. 3,062,672. 11–6–62. Cl. 106—99.

Marzocchi, Alfred, G. E. Rammel, and C. W. Charon, to Owens-Corning Fiberglas Corp. Finish for staple glass fibers and yarns manufactured thereof. 3,066,383, 12–4–62, Cl. 28—80.

Marzolph, Herbert, W. Ruf, and H. Corte, to Bayer Aktiengesellschaft, Farbenfabriken. Process for purifying alkylated acid amides. 3,051,741, 8–28–62, Cl. 260—465.4.

Marzullo, Dominic J. Dampening system for an offset lithography machine. 3,059,573. 10–23–62, Cl. 101—148.

Masarguppi, Jayant A., and V. B. Chipalkatti, to Shri Ram Institute for Industrial Research. Drying and curing resin treated textiles. 3,036,932. 5–29–62, Cl. 117—102.

Masci, Joseph N., and N. A. Poirier, to Johnson & Johnson. Detergent composition. 3,055,836. 9–25–62, Cl. 252—152.

Mascioli, Rocco L., to Air Products and Chemicals, Inc. Process for the recovery of triethylenediamine. 3,045,018, 7–17–62, Cl. 260—268.

Mascitti, Albert A.: *See*—
Childress, Scott J., and Mascitti. 3,053,831.

Mascoli, Richard J.: *See*—
Buono, Joseph A., and Mascoli. 3,021,896.

Mascuch, Joseph J.: *See*—
Peters, Melville F. 3,038,336.
Peters, Melville F. 3,061,039.

Mash, Derek H., to Thorn Electrical Industries Ltd. Conversion of sonic into luminous effects. 3,030,540, 4–17–62, Cl. 313—109.

Mash, Derek H., to Thorn Electrical Industries Ltd. Electro-luminescent lamps. 3,052,810. 9–4–62. Cl. 313—108.

Mash, Derek H. Switching devices. 3,068,440, 12–11–62, Cl. 338—308.

Mashburn, Stanley W. Automobile window mounting for an evaporative cooler. 3,057,283, 10–9–62, Cl. 98—2.

Mashek, Charles A., to C. A. Mashek, R. Will, and N. Fuegen. Sickle jack. 3,055,094. 9–25–62. Cl. 29—267.

Mashiba, George K. Self-sharpening safety razor. 3,057,062, 10–9–62, Cl. 30—36.

Mashinter, William H., to Hills-McCanna Co. Variable output pump. 3,053,187, 9–11–62, Cl. 103—38.

Mashinter, William H. Pump. 3,070,030, 12–25–62, Cl. 103—152.

Masi, Joseph J.: *See*—
Shuxteau, Eugene A., and Masi. 3,024,513.

Masi, Michael. Mailing arrangement for first day envelopes. 3,035,755, 5–22–62, Cl. 229—76.

Masjoshusmann, Erwin: *See*—
Hotop, Werner, Meese, Masjoshusmann, Bohle, and Ginzel. 3,039,390.
Meese, Heinz G., Masjoshusmann, and Hotop. 3,027,835.
Meese, Heinz G., Masjoshusmann, and Hotop. 3,039,389.
Maskel, Isaac E. Basket truck and lift for same. 3,031,092, 4–24–62, Cl. 214—310.
Mask-off Co., Inc.: *See*—
Avelar, Jose D. 3,065,120.
Maskulka, Edward R.: *See*—
Rogers, Eugene E., and Maskulka. 3,066,433.
Masland, C. H., and Sons: *See*—
Hankins, Kenneth E. 3,042,564.
Hankins, Kenneth E. 3,046,177.
Hoffman, Eugene M. 3,060,974.
MacCaffray, Rex S., Jr. 3,029,621.
MacCaffray, Rex S., 3,058,326.
Masley, Alexander S. Opaque water color compositions and method of making same. 3,039,886, 6–19–62, Cl. 106—209.
Maslow, John F.: *See*—
Perry, Patrick J., and Maslow. 3,069,127.
Mason, Alden O.: *See*—
Hayden, Albert P., and Mason. 3,069,491.
Mason, Brian S.: *See*—
Turner, Frederick J. L., and Mason. 3,044,675.
Mason, Charles D.: *See*—
Bruson, Herman A., and Mason. 3,037,964.
Mason, Charles F., to International Telephone and Telegraph Corp. Matrix line selector. 3,054,985, 9–18–62, Cl. 340—166.
Mason, Christopher A. Fixation device for fractured femur. 3,025,853, 3–20–62, Cl. 128—92.
Mason, E. N., & Sons Ltd.: *See*—
Pritchard, Raymond. 3,054,897.
Mason Electric Corp.: *See*—
Mason, Howard F. 3,026,386.
Mason, Howard F. 3,045,082.
Mason, Ernest G. Seat for public use. 3,043,624, 7–10–62, Cl. 297—303.
Mason, Francis G., to Aladdin Industries, Inc. Contacting type drum tuner for high radio frequencies. 3,044,032, 7–10–62, Cl. 336—142.
Mason, Fred Y.: *See*—
Graber, Carl D., Deaton, Mason, and Bryant. 3,028,074.
Mason, Frederick C. P.: *See*—
Evans, James C., Morgan, Nickols, Garratt, Mason, and Atkins. 3,026,714.
Mason, Frederick P., to Creed & Co. Ltd. Apparatus for reading data from a storage medium. 3,045,125, 7–17–62, Cl. 250—238.
Mason, Frederick P., and R. G. Stemp, to Creed & Co. Ltd. Facsimile apparatus. 3,015,690, 1–2–62, Cl. 178—7.1.
Mason, George W.: *See*—
Peppard, Donald F., and Mason. 3,034,854.
Mason & Hanger-Silas Mason Co., Inc.: *See*—
Donaldson, Francis, Snedden, and Cone. 3,030,086.
Jewell, Robert B. 3,024,852.
Mason, Harold F., to California Research Corp. Two-stage conversion process for the production of aromatic product fractions. 3,037,930, 6–5–62, Cl. 208—59.
Mason, Harold F., and J. W. Unverferth, to California Research Corp. Multi-stage hydrofining-hydrocracking process employing an intermediate treating operation. 3,055,-823, 9–25–62, Cl. 208—89.
Mason, Harry L., to Sperry Rand Corp. Programming device. 3,061,188, 10–30–62, Cl. 235—61.11.
Mason, Harvey W.: *See*—
Davis, David R., and Mason. 3,034,764.
Mason, Howard F., to Mason Electric Corp. Rotary switch. 3,026,386, 3–20–62, Cl. 200—68.
Mason, Howard F., to Mason Electric Corp. Push button switch. 3,045,082, 7–17–62, Cl. 200—68.
Mason, James C. Adjustable hand grip locator. 3,036,836, 5–29–62, Cl. 273—165.
Mason, James J., to The Mead Corp. Reinforced carton. 3,062,426, 11–6–62, Cl. 229—14.
Mason, Norbert S.: *See*—
Kneider, Leonard C., and Mason. 3,064,027.
Mason, Ralph B., to Esso Research and Engineering Co. Zeolites from clay minerals. 3,037,843, 6–5–62, Cl. 23—112.
Mason, Robert S.: *See*—
Gould, Gordon E., and Mason. 3,061,503.
Mason, Robert W., and J. H. Kelly, to Allied Chemical Corp. Production of pure silane. 3,043,664, 7–10–62, Cl. 23—204.
Mason, Russell I., to General Electric Co. Modular electronic sub-assemblies and method of fabricating. 3,022,448, 2–20–62, Cl. 317—101.
Mason Silk Co., The: *See*—
Vandervoort, Norman F. 3,018,067.
Mason, Stuart A., to The Bryant Electric Co. Wiring device. 3,040,290, 6–19–62, Cl. 339—164.
Mason, Stuart A., to The Bryant Electric Co. Wiring device. 3,059,212, 10–16–62, Cl. 339—154.
Mason, Warren P., to Bell Telephone Laboratories, Inc. Combined memory storage and switching arrangements. 3,015,708, 1–2–62, Cl. 200—87.
Mason, Warren P., to Bell Telephone Laboratories, Inc. Gauges using piezoresistive elements. 3,034,345, 5–15–62, Cl. 73—141.
Mason, Warren P., to Bell Telephone Laboratories, Inc. Electromechanical wave transmission systems. 3,064,213, 11–13–62, Cl. 333—71.
Mason, William, to Vinnell Corp. Fabricating machine. 3,033,267, 5–8–62, Cl. 153—38.
Mason, William L., to Armstrong Cork Co. Textile fiber drafting element. 3,027,603, 4–3–62, Cl. 260—43.
Masonite Corp.: *See*—
Grisson, Robert E., and Saums. 3,056,718.
Turner, Harold D. 3,054,717.
Massad, Philip M. Hat gauge. 3,038,260, 6–12–62, Cl. 33—178.
Massal, Louis L., to Le Moteur Moderne. Fuel injectors. 3,040,989, 6–26–62, Cl. 239—87.
Massarani, Elena: *See*—
Cavallini, Guido, and Massarani. 3,018,305.
Cavallini, Guido, and Massarani. 3,036,131.
Cavallini, Guido, and Massarani. 3,043,746.
Cavallini, Guido, and Massarani. 3,043,838.
Cavallini, Guido, and Massarani. 3,052,679.
Massaro, Quentin H. Potato ball and ring machine. 3,057,-386, 10–9–62, Cl. 146—78.
Massen, Armand, to The S. S. White Dental Mfg. Co. Chair assemblies with rockable backs. 3,036,863, 5–29–62, Cl. 297—374.
Massengale, John T., and F. C. Bender, to American Viscose Corp. Novolak and method of manufacture thereof. 3,042,-655, 7–3–62, Cl. 260—51.
Massenz, Enrico. Brace for ladies' heels. 3,034,233, 5–15–62, Cl. 36—34.
Masser, Lloyd D., to Neway Equipment Co. Bearing structure for a rockable vehicle axle or trunnion. 3,018,143, 1–23–62, Cl. 308—21.
Massey, Bernard S.: *See*—
Bonsall, Frank, and Massey. 3,018,624.
Massey Dickinson Co., Inc.: *See*—
Grela, Milton W., and Dingee. 3,062,380.
Massey-Ferguson (Australia) Ltd.: *See*—
Gaunt, James K., and Stephens. 3,057,141.
Massey-Ferguson Inc.: *See*—
Anthony, Russell F. 3,067,814.
Ashton, Robert, and Smith. 3,067,562.
Bunting, Ernest V. 3,049,179.
Bunting, Ernest V., and Nilson. 3,068,894.
Bunting, Ernest V., and Rahman. 3,022,092.
Elfes, Lee E. 3,018 863.
Elfes, Lee E. 3,018,864.
Elfes, Lee E. 3,041,884.
Holz, Harold O. 3,021,931.
Horne, Donald S., Ashton, and Kepkay. 3,049,026.
Klemm, Herman G. 3,067,829.
Klemm, Hermann G., Wathen, and Peterson. 3,038,419.
Lapins, Alvin W. 3,021,907.
Mark, Alexander H. 3,036,434.
Mark, Alexander H., and Au. 3,048,981.
Mark, Alexander H., Brzustowski, and Coleman. 3,049,-128.
Mark, Alexander H., Cooper, and Coleman. 3,049,129.
Mark, Alexander H., and Jamison. 3,065,643.
Mitchell, Melville J. 3,021,685.
Mitchell, Melville J. 3,035,384.
Newhouse, Frank J., and Meth. 3,021,659.
Thompson, Howard G. 3,039,539.
Thompson, Howard G. 3,061,019.
Massey-Ferguson (United Kingdom) Ltd.: *See*—
Andersen, Peter B. 3,038,476.
Andersen, Peter B., and Murray. 3,051,252.
Massey, Hubert. Cotton salvaging machines. 3,050,922, 8–28–62, Cl. 56—12.
Massey, John V., R. H. and W. P. Kaulfuss, to Container Corp. of America. Combined easel and handle carton. 3,025,954, 3–20–62, Cl. 206—45.2.
Massey, John W. Vehicle with elevating and supporting mechanism. 3,056,610, 10–2–62, Cl. 280—43.18.
Massey, Lester G.: *See*—
Urban, Peter, and Massey. 3,023,088.
Urban, Peter, and Massey. 3,050,370.
Massey, Lester G., to Universal Oil Products Co. Process and apparatus for obtaining a constant head of liquid. 3,035,-888, 5–22–62, Cl. 23—1.
Massey, William M., to E. I. du Pont de Nemours and Co. Apparatus for distributing a fluid medium to a plurality of spinning chimneys. 3,022,539, 2–27–62, Cl. 18—8.
Masson Seeley & Co. Ltd.: *See*—
Typrowicz, Wladyslaw. 3,034,432.
Typrowicz, Wladyslaw. 3,052,181.
Massot, Roger, and I. P. Eyraud, to Compagnie Generale d'Electricite. Axial carrier steel cable with a plurality of wires for a submarine cable. 3,015,205, 1–2–62, Cl. 57—148.
Mast, Aquila D., to Daffin Mfg. Co. Comminuting apparatus. 3,039,505, 6–19–62, Cl. 146—119.
Mast Development Co., Inc.: *See*—
Agerbek-Poulsen, Sven, and Saunders. 3,031,272.
Brewer, Alan W., and Milford. 3,038,848.
Gannett, Wright K. 3,063,633.
Mast, Fred, to Gretag Aktiengesellschaft. Bar system in schlieren-optical systems. 3,041,395, 6–26–62, Cl. 178—7.88.
Mast, Fred, and W. Janssen, to Gretag Aktiengesellschaft. Apparatus for reproducing television pictures. 3,016,417, 1–9–62, Cl. 178—7.5.
Mast, Glenn L. Method and apparatus for reverse flow water softener regeneration. 3,021,276, 2–13–62, Cl. 210—35.

Mast, Ray L.: *See*—
Bauer, Robert, and Mast. 3,016,292.
Mast, Rodney R.: *See*—
Harwood, Floyd E., and Mast. 3,052,402.
Mastabar Mining Equipment Co. Ltd.: *See*—
Tebb, Bernard, and Perry. 3,044,074.
Tebb, Bernard, and Perry. 3,055,388.
Tebb, Bernard, and Perry. 3,055,626.
Mastenbrook, Sylvia L. to Munsingwear, Inc. Garment. 3,040,751, 6–26–62, Cl. 128—529.
Master, Joseph: *See*—
Whitehead, Raymond O., Master, and Marogg. 3,035,497.
Master, Narsondas J.: *See*—
Grubb, Thomas C., and Master. 3,046,983.
Master Lock Co.: *See*—
Foote, Daniel J., and Arnold. 3,031,877.
Foote, Daniel J., and Berkowitz. 3,023,602.
Foote, Daniel J., and Berkowitz. 3,052,114.
Foote, Daniel J., and Buller. 3,031,876.
Foote, Daniel J., and Stahl. 3,050,977.
Stahl, Samuel, Foote, and Buchmann. 3,023,600.
Master-Craft Corp.: *See*—
Fitzgerald, Russell C. 3,048,178.
Master Machine Corp. of San Diego: *See*—
Davy, Robert E. 3,038,186.
Masters, Albert M. Schoolboard combination. 3,017,704, 1–23–62, Cl. 35—63.
Masters, George R., ¼ to L. F. Hardin, F. G. Cross, M. D. Woody, and N. H. Conder. Football practice gear. 3,042,-904, 7–3–62, Cl. 273—55.
Masters, John E., to Devoe & Raynolds Co., Inc. Dicarboxylic acid modified triglyceride oil-epoxide compositions. 3,027,-340, 3–27–62, Cl. 260—22.
Masters, Kenneth W., M. L. G. Grant, and H. S. Double, to Associated Electrical Industries (Woolwich) Ltd. Regulated power supply arrangements. 3,059,121, 10–16–62, Cl. 307—54.
Masterson, Charles S., ½ to J. Padgett, Jr. Pruning mechanism with rotary saw. 3,029,511, 4–17–62, Cl. 30—167.
Masterson, Frank H., to International Business Machines Corp. Semiconductor devices. 3,064,341, 11–20–62, Cl. 29—25.3.
Masterson, James F.: *See*—
Bickelhaupt, Roy E., and Masterson. 3,019,514.
Masterson, James F., and C. S. Ferguson, to The Bendix Corp. Friction articles and processes for manufacturing and mounting same. 3,037,860, 6–5–62, Cl. 75—208.
Masterton, Bruce, and J. A. Langton, to Shell Oil Co. Dehydrogenation process. 3,050,572, 8–21–62, Cl. 260—680.
Mastis, Victor: *See*—
Dobrikin, Harold L., and Mastis. 3,028,842.
Mastis, Victor, to Berg Airlectro Products Co. Drain valve. 3,028,139, 4–3–62, Cl. 251—175.
Mastrangelo, Sebastian V. R., to E. I. du Pont de Nemours and Co. Process of preparing cyanogen halide. 3,023,077, 2–27–62, Cl. 23—14.
Mastrangelo, Sebastian V. R., and F. W. Swamer, to E. I. du Pont de Nemours and Co. Process for preparing polyfluoroalkanes of high purity. 3,026,359, 3–20–62, Cl. 260—653.
Mastras, Paul. Liquid metal level indicator. 3,058,345, 10–16–62, Cl. 73—304.
Masuda, Tatsunosuke. Aperture system for electron optical instrument. 3,038,993, 6–12–62, Cl. 250—49.5.
Masujima, Ryozo. Knitting needles. 3,050,968, 8–28–62, Cl. 66—121.
Masukawa, Miyoshi, N. Ota, S. Yamada, and T. Shimato, to Ishihara Sangyo Kaisha Ltd. Method for the treatment of waste acid resulting from titanium dioxide production. 3,016,286, 1–9–62, Cl. 23—118.
Masurel, Michel. Composite core yarn. 3,068,636, 12–18–62, Cl. 57—140.
Masurovsky, Edmund B.: *See*—
Murthy, Gopala K., Campbell, Masurovsky, and Edmondson. 3,020,161.
Matarese, John, to General Telephone & Electronics Laboratories, Inc. Photoluminescent logic circuit for selectively energizing plural output lines in response to input voltage level. 3,038,080, 6–5–62, Cl. 250—208.
Matarese, John, to General Telephone & Electronics Laboratories, Inc. Electroluminescent device. 3,066,287, 11–27–62, Cl. 340—347.
Matarrese, Carlo. Combination food grinding, grating, pulverizer and slicing machine. 3,065,779, 11–27–62, Cl. 146—76.
Matayka, Thomas. Toilet flush tank valve sander. 3,019,-569, 2–6–62, Cl. 51—187.
Match, Marvin J., and K. Thomson, to Sperry Rand Corp. Flare-out system for aircraft. 3,052,427, 9–4–62, Cl. 244—77.
Matchett, David W.: *See*—
Parry, Frank, and Matchett. 3,028,824.
Matchett, John C., to Robertshaw-Fulton Controls Co. Thermal electric switch. 3,059,079, 10–16–62, Cl. 200—137.
Matejek, John M., to American Can Co. Testing mechanism. 3,018,888, 1–30–62, Cl. 209—72.
Matejek, John M., to American Can Co. Adjustable measuring chamber for a dispenser. 3,065,887, 11–27–62, Cl. 222—435.
Matejicek, Joseph F. Barbed wire roll pick up and carrying tongs. 3,059,954, 10–23–62, Cl. 294—16.
Mater, Milton H.: *See*—
O'Toole, Phil J., and Mater. 3,024,738.
Materiel Industriel S.A.: *See*—
Grossmann, Paul. 3,038,332.
Materiel Special d'Entreprise, Society le: *See*—
Lutz, Robert. 3,059,738.
Mateski, Anton, to General Electric Co. Ice making apparatus. 3,028,733, 4–10–62, Cl. 62—135.
Matge, Pierre P.: *See*—
Robert, Roger A., and Matge. 3,048,086.
Mathamel, Flavius A., to Burroughs Corp. Record perforator. 3,070,292, 12–25–62, Cl. 234—114.
Matheis, Theodore, and C. T. Alverson, Jr., to Foster Wheeler Corp. Device for the control and selection of fuel to a burner. 3,026,927, 3–27–62, Cl. 158—28.
Matheisel, Rudolph A., C. H. Matson, J. G. Johnston, and O. F. Fields, said Matson, Johnston and Fields assors. of ¾ to United States of America, Navy. Stores loading at sea. 3,069,028, 12–18–62, Cl. 214—15.
Mathema Corp. Reg. Trust: *See*—
Kuhlenkamp, Alfred. 3,039,194.
Matheny, Wade M., Jr., and G. R. Heilman, to Union Carbide Corp. Rod driver. 3,034,588, 5–15–62, Cl. 175—156.
Mather, Glenn E., to Rockwell-Standard Corp. Heavy duty spring assemblies. 3,017,171, 1–16–62, Cl. 267—1.
Mather, John: *See*—
Browne, Anthony A. B., and Mather. 3,036,044.
Mather, Philip R.: *See*—
Holmes, John B. 3,039,233.
Mather, Robert L.: *See*—
Shawhan, Elbert N., McLean, Palevsky, and Mather. 3,020,470.
Mather Spring Co.: *See*—
Hanslip, Richard E. 3,022,992.
Mathers, Harry W., to International Business Machines Corp. Series amplifier. 3,016,485, 1–9–62, Cl. 323—89.
Mathers, Robert V., and F. A. Novotney, to Anthony Co. Dropleaf elevating gate. 3,065,869, 11–27–62, Cl. 214—77.
Mathes, Robert H., and A. J. Hiller, to Toymaster Products Co., Inc. Game. 3,033,570, 5–8–62, Cl. 273—126.
Mathes, Wilhelm, and A. Wolf, to Dr. F. Raschig G.m.b.H. Preparation of diphenyl-pyridyl- and diphenyl-quinolylmethanes. 3,042,678, 7–3–62, Cl. 260—283.
Mathes, Wilhelm: *See*—
Steinharcs, Arnolds, and Mathes. 3,043,675.
Mathes, William B.: *See*—
Mathes, Bruce T., and Mathes. 3,070,423.
Matheson, Edmund E., and A. Wolfensperger, to Rockwell Mfg. Co. Fluid pressure actuated valve. 3,056,573, 10–2–62, Cl. 251—31.
Matheson, George L.: *See*—
Matheson, Herman L., and Matheson. 3,052,186.
Matheson, James N., to Welsh Mfg. Co. Respirator. 3,029,812, 4–17–62, Cl. 128—146.
Matheson, Thomas F.: *See*—
Bosworth, Kenneth O., and Matheson. 3,026,896.
Matheson, William A., and E. G. Henninger, to Portable Elevator Mfg. Co. Portable elevator. 3,037,612, 6–5–62, Cl. 198—120.5.
Mathews, Amphlett C. B.: *See*—
Timson, Ernest A., and Mathews. 3,057,610.
Mathews, Bernard C. Crop reaper and chopper. 3,035,393, 5–22–62, Cl. 56—505.
Mathews, Bernard C. Apparatus and method for pelletizing hay or the like. 3 070,002, 12–25–62, Cl. 100—35.
Mathews Conveyer Co.: *See*—
Fisk, Robert W. 3,026,988.
Forsyth, Emil J. 3,059,787.
Kubat, Donald A. 3,058,564.
Raynor, Warren S. 3,035,685.
Mathews, Donald K., F. R. Johanson, and K. L. Pell. Visual type swing indicator attachment for golf clubs. 3,070,373, 12–25–62, Cl. 273—183.
Mathews, Edward C., to Simmonds Precision Products, Inc. Illuminated counter. 3,040,458, 6–26–62, Cl. 40—77.
Mathews, Frank R.: *See*—
Kerr, Elmer L., and Mathews. 3,058,840.
Mathews, George P.: *See*—
House, Bryan E., and Mathews. 3,053,347.
Mathews, George P., and C. D. Shunkwiler, to Rockwell-Standard Corp. Right angle, lever-wedge actuated mechanical brake. 3,050,156, 8–21–62, Cl. 188—78.
Mathews, John H., to Kimberly-Clark Corp. Paper composed of synthetic fibers and fibrous binder for use in the manufacture thereof. 3,035,965, 5–22–62, Cl. 162—145.
Mathews, John I.: *See*—
Selke, William A., and Mathews. 3,032,465.
Mathews, John W., to R. C. Allen Business Machines, Inc. Adding and subtracting machine with credit balance printing and self zeroing dials. 3,019,967, 2–6–62, Cl. 235—60.17.
Mathews, Max V., to Bell Telephone Laboratories, Inc. Reduction of sampling rate in pulse code transmission. 3,023,277, 2–27–62, Cl. 179—15.
Mathews, Peter: *See*—
Brown, Thomas F., and Mathews. 3,050,464.
Mathews, William J., to Pan American Window Corp. Sliding door construction. 3,052,930, 9–11–62, Cl. 20—19.
Mathey, Pierre, and C. Zinsstag. Preparation of concentrated acetoacetamide solutions. 3,065,268, 11–20–62, Cl. 260—561.

Mathi, Walter E., and G. V. Nolde, to Smith-Corona Marchant Inc. Calculating machine. 3,021,060, 2–13–62, Cl. 235—79.
Mathias, Benny B., to Owens-Illinois Glass Co. Method of and apparatus for the detection of flaws in translucent articles. 3,027,798, 4–3–62, Cl. 88—14.
Mathias, Joseph S., to Foote Mineral Co. Preparing lithium ferrosilicon alloys. 3,021,210, 2–13–62, Cl. 75—129.
Mathiason, Lauritz W., and H. J. Bihrle. Golf ball marking apparatus. 3,022,725, 2–27–62, Cl. 101—40.
Mathiesen, James C.: *See*—
Ten Bosch, Maurits, Bayley, Mathiesen, and Schaefer. 3,039,096.
Mathiesen, Mihkel: *See*—
Gummeson, Per Eg., and Mathiesen. 3,038,711.
Mathiesen, Nicolaus P. File card with magnetic insert. 3,033,208, 5–8–62, Cl. 129—16.
Mathieson Chemical Corp.: *See*—
Bernstein, Jack, and Spitsmiller. 3,068,278.
Mathieu, Alexis: *See*—
De Coene, Robert, and Mathieu. 3,041,324.
De Coene, Robert, and Mathieu. 3,067,185.
Mathieu, Francois: *See*—
Ruelle, Louis, and Mathieu. 3,025,043.
Mathieu, Francois J. H. H., to Societe Les Constructions Guinard. Gang cutting and forming punch for the manufacture of filtering elements. 3,044,167, 7–17–62, Cl. 29—567.
Mathieu, Jean: *See*—
Bertin, Daniel, Locatelli, Mathieu, Muller, and Fritel. 3,052,675.
Mathis, Cecil E., to Industrial Development Engineering Associates, Inc. Electrical control network. 3,032,686, 5–1–62, Cl. 315—189.
Mathis, Glenn W., and R. J. Burger, to McCray Refrigerator Co., Inc. Refrigerated display case. 3,044,274, 7–17–62, Cl. 62—256.
Mathis, Vernon P.: *See*—
Abbott, Harold W., and Mathis. 3,043,516.
Mathison, Norman K. Container for foodstuffs. 3,070,226, 12–25–62, Cl. 206—56.
Mathison, Richard P., and L. J. Derr, to California Institute Research Foundation. Frequency standard receiver. 3,032,650, 5–1–62, Cl. 250—6.
Mathison, Victor G.: *See*—
Hardison, Wilbur T., Mathison, Caddock, and Bourns. 3,069,646.
Mathues, Thomas O., to General Motors Corp. Method and apparatus for electrostatic spraying. 3,024,132, 3–6–62, Cl. 117—93.
Mathues, Thomas O., to General Motors Corp. Panel and trim means. 3,054,213, 9–18–62, Cl. 45—138.
Mathues, Thomas O., G. W. Beck, R. C. Davis, and R. W. Forward, to General Motors Corp. Vehicle instrument and dashboard assemblies. 3,042,137, 7–3–62, Cl. 180—90.
Mathwich, Howard R., to Radio Corp. of America. Repeater station having diversity reception and full hot standby means. 3,045,185, 7–17–62, Cl. 325—5.
Matkins, Eugene G.: *See*—
Martin, Robert A., and Matkins. 3,026,446.
Matlack, Albert S.: *See*—
De Butts, Edward H., and Matlack. 3,021,319.
Matlock, Roy L. Longitudinally adjustable running gear mounting for vehicles. 3,048,421, 8–7–62, Cl. 280—81.
Matlock, Wallace. Garment shoulder ironing device. 3,064,-372, 11–20–62, Cl. 38—99.
Matlow, Sheldon L., to Hoffman Electronics Corp. Alloyed photovoltaic cell and method of making the same. 3,046,-324, 7–24–62, Cl. 136—89.
Matlow, Sheldon L., and E. L. Ralph, to Hoffman Electronics Corp. Method of making a large area solar cell panel. 3,040,416, 6–26–62, Cl. 29—155.5.
Matoba, Kyozo, to Sears, Roebuck and Co. Pocket hand warmer and burner unit therefor. 3,049,117, 8–14–62, Cl. 126—208.
Matonak, Lawrence A.: *See*—
McCurdy, Robert J., and Matonak. 3,052,849.
Matousek, Robert R.: *See*—
Auerbach, Philip R. 3,066,561.
Matoush, William R., to International Minerals & Chemical Corp. Preparation of fluorine compounds. 3,056,650, 10–2–62, Cl. 23—88.
Matray, Otto J., and W. H. Stine, Jr., to E. I. du Pont de Nemours and Co. Pill resistant polyamide fiber. 3,050,-822, 8–28–62, Cl. 28—82.
Matrishin, Mary: *See*—
Goodman, Joseph J., and Matrishin. 3,019,172.
Matronics, Inc.: *See*—
Grstein, Paul L., Meisel, and Panchak. 3,047,225.
Matsch, Ladislas C., to Union Carbide Corp. Process and apparatus for purifying and separating compressed gas mixtures. 3,039,274, 6–19–62, Cl. 62—24.
Matsch, Ladislas C., E. F. Yendall, W. H. Lauer, and H. Koehn, to Union Carbide Corp. Process and apparatus for purifying and separating compressed gas mixtures. 3,066,-493, 12–4–62, Cl. 62—14.
Matson, Carl G., to Vibrator Mfg. Co. Railroad car vibrator. 3,047,169, 7–31–62, Cl. 214—64.2.
Matson, Carroll H.: *See*—
Matheisel, Rudolph A., Matson, Johnston, and Fields. 3,069,028.
Matson Co., Inc.: *See*—
Matulaitis, Victor E. 3,035,149.
Matson, Earl L. Combination marking line and plumb bob. 3,016,616, 1–16–62, Cl. 33—87.
Matson, Howard J., to Sinclair Refining Co. Extreme pressure lubricant composition. 3,021,281, 2–13–62, Cl. 252—47.5.
Matson, Howard J., to Sinclair Research, Inc. Lubricant including a molybdenum-containing organic material. 3,047,-500, 7–31–62, Cl. 252—42.7.
Matson Navigation Co.: *See*—
Hariander, Leslie A., and Walther. 3,034,825.
Matson, Randolph. Soil moisture indicating gage. 3,026,718, 3–27–62, Cl. 73—73.
Matson, Randolph. Soil moisture indicating gage. 3,045,-477, 7–24–62, Cl. 73—73.
Matson, Taylor. Machine for making mechanical drawings. 3,067,517, 12–11–62, Cl. 33—26.
Matson, Victor H.: *See*—
Cummings, Francis M., Fleming, and Matson. 3,046,480.
Matson, William N. Cast stand. 3,038,689, 6–12–62, Cl. 248—44.
Matsubara, Yoshiharu, Y. Heya, and H. Aizawa, to Saisei Camphor Co., Ltd. Process for the oxidation of saturated cyclic hydrocarbon. 3,041,381, 6–26–62, Cl. 260—610.
Matsubayashi, Kanji: *See*—
Fukushima, Osamu, and Matsubayashi. 3,067,152.
Kuchi, Eiichi, and Matsubayashi. 3,053,605.
Matsubayashi, Kanji, and O. Fukushima, ¾, to Kurashiki Rayon Co., Ltd., and ¼ to Air Reduction Co., Inc. Process of making polyvinylalcohol fibers of improved dyeability. 3,053,786, 9–11–62, Cl. 260—29.4.
Matsuda, Ken: *See*—
Morin, Lucille T., and Matsuda. 3,021,328.
Morin, Lucille T., and Matsuda. 3,021,336.
Morin, Lucille T., and Matsuda. 3,021,337.
Morin, Lucille T., and Matsuda. 3,033,893.
Morin, Lucille T., and Matsuda. 3,038,928.
Matsuda, Ken, and G. L. M. Christopher, to American Cyanamid Co. Synthesis of diarylethanes. 3,040,110, 6–19–62, Cl. 260—668.
Matsuda, Ken, to American Cyanamid Co. Addition polymer of cyanogen and a diamine. 3,049,499, 8–14–62, Cl. 260—2.
Matsuda, Masatsugi: *See*—
Hiratsuka, Matsumura, Matsuda, Takagi, Kasawara, Oono, Abe, and Ozawa. 3,038,786.
Matsui, Masanao, to Argus Inc. Lamp socket for flash gun. 3,067,399, 12–4–62, Cl. 339—33.
Matsui, Masanao, and M. Miyano, to Sumitomo Chemical Co., Ltd. Preparation of nordihydro-rotenone. 3,065,244, 11–20–62, Cl. 260—345.2.
Matsui, Toshinori: *See*—
Takeda, Yoshito, Matsui, and Okada. 3,028,309.
Matsumae, Akihiro: *See*—
Hata, Toju, Sugawara, and Matsumae. 3,023,145.
Hata, Toju, Sugawara, Matsumae, and Sano. 3,067,100.
Matsumoto, Maskazu: *See*—
Shiraishi, Makoto, and Matsumoto. 3,052,662.
Matsumoto, Michio: *See*—
Amaki, Sanae, Matsumoto, and Ukitsu. 3,045,590.
Matsumoto, Seiji: *See*—
Inoue, Yoshiki, Fukuoka, and Matsumoto. 3,028,339.
Matsumura, Shiro.: *See*—
Hiratsuka, Kizo, Matsumura, Matsuda, Takagi, Kasawara, Oono, Abe, and Ozawa. 3,038,786.
Matsuoka, Earl, to Ling-Temco-Vought, Inc. High frequency loudspeakers. 3,059,720, 10–23–62, Cl. 181—31.
Matsushita Electric Industrial Co., Ltd.: *See*—
Fukuda, Masataro, Oda, and Katashima. 3,041,388.
Matsuyama, Takuzo: *See*—
Hosokawa, Eiichi and M., Matsuyama, and Morimoto. 3,040,888.
Hosokawa, Eiichi and M., Matsuyama, and Yokoyama. 3,037,712.
Matsuzai, Soichiro, to Olympus Kogaku Kogyo Kabushiki-Kaisha. Device interconnecting the exposure meter and the lens diaphragm of a camera. 3,060,822, 10–30–62, Cl. 95—10.
Matt, Richard J., to Thompson Ramo Wooldridge, Inc. Oscillatory actuator seal. 3,066,654, 12–4–62, Cl. 121—99.
Matt, William S.: *See*—
Fleischer, Joseph, and Matt. 3,063,584.
Mattano, Leonard A., to The Dow Chemical Co. Preparation of chelating resins from polymeric vinylbenzylamine and glycolonitrile. 3,043,809, 7–10–62, Cl. 260—78.
Mattaway, Morton W. Merchandise display bag. 3,066,845, 12–4–62, Cl. 229—55.
Mattel, Inc.: *See*—
Duncan, Theodore R. 3,037,779.
Ryan, John W. Re. 25,308.
Ryan, John W. 3,057,114.
Matter, Albert J. Automatic wobble-stopping glides for furniture. 3,028,703, 4–10–62, Cl. 45—139.
Matter, George B., to Weyerhaeuser Co. Pneumatic fiber felting head. 3,056,173, 10–2–62, Cl. 19—156.
Matter, George B., to Weyerhaeuser Co. Insulation shredder and blower. 3,061,206, 10–30–62, Cl. 241—60.
Matter, Gustave O. Measuring dispenser. 3,023,937, 3–6–62, Cl. 222—440.
Matter, Robert C., and I. T. Landon, to General Motors Corp. Method of soldering and flux therefor. 3,035,339, 5–22–62, Cl. 29—495.

Matteson, Emory F., to Shampaine Industries, Inc. Door-latches. 3,046,043, 7–24–62, Cl. 292—175.
Matteson, Kenneth E.: *See*—
Brockman, Frank G., Beck, and Matteson. 3,039,966.
Matteson, Richard J., to GPE Controls, Inc. Surface position indicator having movable sensing means. 3,025,696, 3–20–62, Cl. 73—37.6.
Matteson, Russell E., to Diamond National Corp. Carton dispenser and separator. 3,016,164, 1–9–62, Cl. 221—9.
Matthaeus, Georg: *See*—
Hagge, Walter, Matthaeus, and Quaedvlieg. 3,024,229.
Quaedvlieg, Mathieu, and Matthaeus. 3,063,983.
Matthes, Max: *See*—
Kleine, Norbert, Matthes, and Mueller. 3,068,687.
Matthews, Arthur J., Jr.: *See*—
Fairchild, Albert R., and Matthews. 3,039,952.
Matthews, Benjamin H., to Lucerne Products, Inc. Spray gun. 3,062,453, 11–6–62, Cl. 239—143.
Matthews, Birchard L., to Aurora Corp. of Illinois. Gas burner electrical control. 3,030,023, 4–17–62, Cl. 236—1.
Matthews, Dennis J., to Brentford Transformers Ltd. Intermittent reversing drives. 3,058,366, 10–16–62, Cl. 74—435.
Matthews, Elsie E. Device for protecting heel portions of shoes in low-slung automobiles. 3,066,427, 12–4–62, Cl. 36—72.
Matthews, Florence M., and H. D. Stribling, to Lockheed Aircraft Corp. Nacelle and structure cooling system for use with ejector type VTOL aircraft. 3,053,482, 9–11–62, Cl. 244—23.
Matthews, Frederick W., and M. Morf, to Canadian Industries Ltd. Prevention of settling of uranium pulp by polyvinyl alcohol. 3,044,849, 7–17–62, Cl. 23—14.5.
Matthews, Hugh B., to General Motors Corp. Trackless six-way seat adjuster. 3,037,735, 6–5–62, Cl. 248—394.
Matthews, James H. & Co.: *See*— Brown, Alvin M., Ayers, Shields, Maloney, and Kmiecik. 3,020,834.
Brown, Alvin M., Ayers, Shields, Maloney, and Kmiecik. 3,049,992.
Devon, Harry J., and Davis. 3,018,728.
King, William R. 3,053,172.
Madej, Edward A. 3,055,132.
Munn, John E. 3,044,218.
Munn, John E. 3,044,394.
Rettman, Robert J. 3,052,065.
Matthews, John J.: *See*— Wilkinson, Kenneth J. R., and Matthews. 3,025,443
Matthews, Joseph E., to J. M. Lewis, and B. C. Baldwin. Wheel chair. 3,061,368, 10–30–62, Cl. 297—118.
Matthews, Lester W.: *See*— Nisper, Kenneth J., and Matthews. 3,066,398.
Matthews, Louis L.: *See*— Barber, Earle W. and E. W. Barber, Jr. 3,019,897.
Matthews, Lyle E.: *See*— Ryden, Carl V., Smith, and Matthews. 3,040,517.
Matthews, Lyle E., to United States of America, Navy. Vibration table. 3,044,292, 7–17–62, Cl. 73—71.6.
Matthews, Peter P., to The Cyril Bath Co. Swinging arm type stretch and wipe forming machine. 3,034,560, 5–15–62, Cl. 153—32.
Matthews, Richard J. S.: *See*— Besant, Kenneth H. C., and Matthews. 3,067,186.
Matthews, Robert, to The Decca Reccord Co. Ltd. Pulse radar apparatus. 3,029,428, 4–10–62, Cl. 343—13.
Matthews, Robert, and J. S. Johnston, to Decca Ltd. Electrical transmission and storage of information represented by direct voltages. 3,045,074, 7–17–62, Cl. 179—15.
Matthews, Robert J., to American Radiator & Standard Sanitary Corp. Mercury jet switch and rotor therefor. 3,017,468. 1–16–62, Cl. 200—32.
Matthews, Robert M., and J. W. Kaylor, to Chadbourn Gotham Inc. Non-run seamless hosiery. 3,027,737, 4–3–62, Cl. 66—172.
Matthews, Roy, to Henry Simon Ltd. Centrifugal air classifier. 3,057,475. 10–9–62, Cl. 209—144.
Matthews, Russell B.: *See*— Bydalek, Floyd J., Dietz, and Matthews. 3,024,812.
Matthews, Russell B., to Penn Controls, Inc. Control apparatus. 3,034,571, 5–15–62, Cl. 158—123.
Matthews, Russell B., to Penn Controls, Inc. Burner and thermoelectric device assembly. 3,046,321, 7–24–62, Cl. 136—4.
Matthews, Russell B., to Penn Controls, Inc. Control apparatus. 3,055,418, 9–25–62, Cl. 158—123.
Matthews, Russell R., and J. L. Hubbard, to The Firth Carpet Co., Inc. Oneshot modified axminster weave. 3,027,919, 4–3–62, Cl. 139—399.
Matthews, Stephen, to Block & Anderson Ltd. Duplicating machines. 3,033,108, 5–8–62, Cl. 101—132.5.
Matthews, Virgil E.: *See*— Dickey, Charles R., Mailey, and Matthews. 3,062,854.
Matthews, Virgil E., to Union Carbide Corp. Process for the production of dialkali metal salts of nitroacetic acid. 3,026,352, 3–20–62, Cl. 260—526.
Matthey Roger, to Parechoc S.A. Device for pivoting a movable element of a clockwork movement or of a small mechanism. 3,036,871, 5–29–62, Cl. 308—159.
Matthias, Arnold: *See*— Sassmann, William H., and Matthias. 3,030,714.
Matthies, Alan A., to Controls Co. of America. Defrost control responsive to frost accumulation. 3,033,004, 5–8–62, Cl. 62—140.
Matthies, Alan A., to Controls Co. of America. Defrost control. 3,063,249, 11–13–62, Cl. 62—140.
Matthiessen, Roy A. Support for electrical service standpipe. 3,059,883, 10–23–62, Cl. 248—49.
Matthysse, Irving F., to Burndy Corp. Gripping cup to retain a conductor in a connector. 3,019,284, 1–30–62, Cl. 174—84.
Matthysse, Irving F., and E. S. Raila, to Burndy Corp. Connector. 3,065,449, 11–20–62, Cl. 339—247.
Matti, Leo F., to Bartelt Engineering Co., Inc. Machine for classifying packages according to weight. 3,017,992. 1–23–62, Cl. 209—121.
Mattiat, Oskar, to United States of America, Army. Piezoelectric resonator with oppositely poled ring and spot. 3,018,451. 1–23–62, Cl. 333—72.
Matticoli, Alfredo, Device to maintain constantly focused, in a centered optical system, object and image during the variation of the distances from their planes to the respective nodal points of the lens. 3,023,520, 3–6–62, Cl. 88—1.
Mattie, George S.: *See*— Wesley, Newton K., and Mattie. 3,027,804.
Mattingly, Denis A. E.: *See*— Gilchrist, Reginald S., and Mattingly. 3,040,511.
Mattingly, Denis A. E., and R. S. Gilchrist, to The Klinger Mfg. Co. Ltd. Multiple bobbin winding apparatus for yarn and the like. 3,018,974, 1–30–62, Cl. 242—35.5.
Mattingly, James T., to United States of America, Atomic Energy Commission. Neutron shielding structure. 3,056,-028, 9–25–62, Cl. 250—108.
Mattingly, John J. and R. J. Mattingly, deceased, by R. R. Mattingly, executor. Adhesive applicator for a can labeling machine. 3,045,643, 7–24–62, Cl. 118—415.
Mattingly, Ralph J.: *See*— Mattingly, John J. and R. J. 3,045,643.
Mattingly, Ralph J., deceased (by R. R. Mattingly, executor), and J. J. Mattingly. Adhesive applicator for a can labeling machine. 3,017,311, 1–16–62, Cl. 156—357.
Mattingly, Richard R.: *See*— Mattingly, John J. and R. J. 3,045,643.
Mattingly, Ralph J. and J. J. 3,017,311.
Mattingly, Robert L., to Bell Telephone Laboratories, Inc. Directive antenna systems. 3,028,591, 4–3–62, Cl. 343—5.
Mattingly, William B.: *See*— Culbertson, James B., and Mattingly. 3,057,679.
Mattioli, Ennio, to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Fluid flow control valve. 3,039,733, 6–19–62, Cl. 251—5.
Mattison Machine Works: *See*— Peterson, Gustaf J. 3,039,237.
Mattke, Charles F.: *See*— Harmon, Leon D., and Mattke. 3,027,528.
Mattke, Charles F., and F. W. Reynolds, to Bell Telephone Laboratories, Inc. Radiant-energy translation system. 3,021,428, 2–13–62, Cl. 250—83.3.
Mattox, Fabien. Picker sticks. 3,025,887, 3–20–62, Cl. 139—156.
Mattox and Moore, Inc.: *See*— Mattox, William E. 3,042,525.
Mattox, William E., to Mattox and Moore, Inc. Mass hormonization of meat-producing animals. 3,042,525, 7–3–62, Cl. 99—2.
Mattox, William J., to Esso Research and Engineering Co. Method for converting alcohols to ethers. 3,036,134, 5–22–62. Cl. 260—614.
Mattox, William J., and C. N. Kimberlin, Jr., to Esso Research and Engineering Co. Reactivation of molecular sieves. 3,030,431, 4–17–62. Cl. 260—676.
Mattson, Claes G. Apparatus for thinning in plant rows. 3,040,818, 6–26–62, Cl. 172—555.
Mattson, Everett L.: *See*— Hinrichsen, Hans V., and Mattson. 3,024,349.
Mattson, Harry L., to The Bearley Co. Bathroom scale. 3,044,564, 7–17–62, Cl. 177—230.
Mattson, Roger P. Disposable enema units. 3,028,863, 4–10–62, Cl. 128—227.
Mattson, Roger P. Volumetric measuring device. 3,064,863, 11–20–62, Cl. 222—205.
Mattson, Russell E.: *See*— Summers, Frank P., Jr., and Mattson. 3,046,556.
Mattsson, Kenneth D. Rear vision periscope for autos. 3,058,395, 10–16–62, Cl. 88—86.
Matty, Robert E., to The Babcock & Wilcox Co. Chemical recovery system. 3,026,240, 3–20–62, Cl. 162—36.
Matulaitis, Victor E., to Matson Co., Inc. Discharge machining apparatus and method. 3,035,149, 5–15–62, Cl. 219—69.
Matulik, Josef, K. Rychlý, and J. Punčochář, to Meopta, narodni podnik. Device for automatically controlling the exposure time for photographic purposes. 3,063,354, 11–13–62, Cl. 95—10.
Matusche, Heinz, to Sud Atlas-Werke G.m.b.H. Indicating fluctuations in frequency and amplitude. 3,015,776, 1–2–62. Cl. 324—82.
Matusche, Heinz. Sound recording and reproducing apparatus. 3,021,145, 2–13–62, Cl. 274—11.
Matusche, Heinz, to J. Dethloff. Electric fishing equipment. 3,058,252, 10–16–62, Cl. 43—17.1.

Matuschkovitz, Richard K., and H. J. Christensen, to Chemetron Corp. Metallurgical processes. 3,055,753, 9–25–62, Cl. 75—58.
Matusiak, Stanley. Apparatus for supporting a roll for processing. 3,057,619, 10–9–62, Cl. 269—142.
Matusky, Steve M., C. M. Gustafson, and W. H. Leffan. Container handle. 3,025,997, 3–20–62, Cl. 220—95.
Matuszak, Alfred H.: *See*—
Craven, William J., Metro, and Matuszak, 3,019,188.
Matuszak, Alfred H., to Esso Research and Engineering Co. Ester type synthetic lubricants. 3,016,353, 1–9–62, Cl. 252—56.
Matuszak, Alfred H., S. J. Metro, and J. S. P. Schwarz, to Esso Research and Engineering Co. Acidic partial esters as lubricating oil additives. 3,029,204, 4–10–62, Cl. 252—56.
Matuszak, Alfred H., D. S. Maisel, and E. W. Carrier, to Esso Research and Engineering Co. Preparation of complex diester synthetic lubricants. 3,048,623, 8–7–62, Cl. 260—485.
Matuszak, Alfred H., and S. J. Metro, to Esso Research and Engineering Co. Lubricating composition. 3,058,911, 10–16–62, Cl. 252—49.6.
Matveeff, Alexander, to Glassoloid Corp. of America. Laminating press. 3,047,051, 7–31–62, Cl. 156—539.
Matveeff, Alexander, and L. L. Hoffman. Distributor for internal combustion engine. 3,035,107, 5–15–62, Cl. 123—146.5.
Matyas, Andrew M. Wall facing material. 3,045,396, 7–24–62, Cl. 50—342.
Matysek, John J., to United States of America, Air Force. Exponential backward sweep wave voltage generator which can be arrested at any level. 3,034,071, 5–8–62, Cl. 331—74.
Matz, Alexander. Fuel economy apparatus for internal combustion engines. 3,066,660, 12–4–62, Cl. 123—119.
Matz, Manfred: *See*—
Stieglitz, Ernst, and Matz. 3,036,074.
Matz, Reuven, C. Forgacs, and S. Perlmutter, to The State of Israel represented by the Prime Minister. Electrodialysis of aqueous electrolyte solutions. 3,029,196, 4–10–62, Cl. 204—180.
Matzen, Julius C., and C. M. Salvatore. Drink mixing devices. 3,030,082, 4–17–62, Cl. 259—72.
Matzen, Walter T., and J. R. Biard, to Texas Instruments Inc. Differential transistor amplifier. 3,046,487, 7–24–62, Cl. 330—19.
Matzen, Walter T., to Texas Instruments Inc. Frequency modulated multivibrator. 3,061,800, 10–30–62, Cl. 332—14.
Matzinger, Charles P., to The Mountain Copper Co., Ltd. Stabilization of copper chelate. 3,036,104, 5–22–62, Cl. 260—438.
Matzuk, Alexander R., H. D. Brown, and L. H. Sarett, to Merck & Co., Inc. Anti-turkey blackhead compositions of 1-ethyl-3-methyl-3(5-nitro-2-thiazolyl) urea and method of using same. 3,067,097, 12–4–62, Cl. 167—53.1.
Mauborgne, Paul. Spinning reel. 3,036,789, 5–29–62, Cl. 242—84.21.
Mauch, Hans A., and A. S. Moore. Hair drier and method of manufacture. 3,044,183, 7–17–62, Cl. 34—99.
Mäucher, Paul: *See*—
Häussermann, Kurt, Mäucher, and Stallbaumer. 3,016,-120.
Mauck, Victor, E. T. Duke, and A. B. Belfi, to Nicolet Industries, Inc. Apparatus for producing helical air cell pipe covering. 3,068,934, 12–18–62, Cl. 156—425.
Mauldin, Wendell E., to Stewart-Warner Corp. Automatic temperature control system. 3,058,724, 10–16–62, Cl. 257—278.
Maudlin, Wendell E., to Stewart-Warner Corp. Charge stabilizer for heat pump. 3,065,610, 11–27–62, Cl. 62—149.
Mauduit, André, to Compagnie des Machines Bull (Societe Anonyme). Device for controlling an electronically operated printing machine. 3,064,561, 11–20–62, Cl. 101—93.
Mauer, Kenneth H., and R. C. Mott, to Minneapolis-Honeywell Regulator Co. Air conditioning apparatus having temperature and pressure control. 3,037,702, 6–5–62, Cl. 236—13.
Mauer, Robert C.: *See*—
Hale, James R., and Mauer. 3,050,691.
Mauer, Robert C., to Lockheed Aircraft Corp. Over voltage relay. 3,047,776, 7–31–62, Cl. 317—31.
Mauerer, Leopold, to Jefferson Electric Co., Inc. Ballast and system for gaseous discharge lamps. 3,029,363, 4–10–62, Cl. 315—232.
Mauersberger, Heinrich, to Tullmaschinenbau VEB. Textile material and manufacture. 3,030,786, 4–24–62, Cl. 66—84.
Mauersberger, Heinrich, and H. Kemter, to Tullmaschinenbau Karl-Marx-Stadt, VEB. Process for the manufacture of chenille yarn. 3,058,193, 10–16–62, Cl. 28—77.
Maugle, David R., to Ametek, Inc. Instruments. 3,053,094, 9–11–62, Cl. 73—431.
Maul, John A., W. J. Brugge, and D. D. Anderson, to Addressograph-Multigraph Corp. Printing machines. 3,018,725, 1–30–62, Cl. 101—269.
Maulaz, Georges, to Satrametal S.A. Unbreakable and impervious ring, of moulded synthetic material, for package tins. 3,019,936, 2–6–62, Cl. 220—53.
Mauldin, Joseph B. Air-supported shelters. 3,042,051, 7–3–62, Cl. 135—1.
Maunoury, Francois M. L.: *See*—
Bertin, Jean H., Bauger, Kadosch, and Maunoury. 3,041,823.
Bertin, Jean H., Kadosch, and Maunoury. 3,016,699.
Bertin, Jean H., Kadosch, and Maunoury. 3,020,709.
Bertin, Jean H., Kodosch, Maunoury, De La Salle, and Turinetti. 3,024,602.
Maunoury, Jean. Heel for footwear. 3,017,706, 1–23–62, Cl. 36—34.
Maupin, Joseph T., to Minneapolis-Honeywell Regulator Co. Integral transistor-thermistor and circuit using same for compensating for changing transistor temperature. 3,017,520, 1–16–62, Cl. 307—88.5.
Maupin, Joseph T., to Minneapolis-Honeywell Regulator Co. Semiconductor devices. 3,051,877, 8–28–62, Cl. 317—235.
Maurand, Rene L. F., to Ciments Lafarge. Rotary kilns and dryers or other like apparatus. 3,019,835, 2–6–62, Cl. 159—9.
Maurath, Raymond L., to Caroline Co. Spray gun. 3,025,-006, 3–13–62, Cl. 239—424.
Maurer, Albrecht, to Ringspann Albrecht Maurer, K.G. One-way clutches. 3,066,778, 12–4–62, Cl. 192—45.1.
Maurer, Albrecht, and E. Giese, to Ringspann Albrecht Maurer, K.G. One-way sprag type clutch. 3,066,779, 12–4–62, Cl. 192—45.1.
Maurer, Donald D. Self packing shortening measure device. 3,021,033, 2–13–62, Cl. 222—47.
Maurer, Frederick: *See*—
Silverman, Bernard P., Cordes, and Maurer. 3,054,556.
Maurer, Herman W. Folding pliable partition. 3,029,867, 4–17–62, Cl. 160—84.
Maurer, James I.: *See*—
Halversen, Roy A., Maurer, and Saad. 3,046,165.
Maurer, John A., to The Kalart Co., Inc. Method of re-recording a sound record line and apparatus for re-recording a sound record line. 3,051,042, 8–28–62, Cl. 88—24.
Maurer, John A., to The Perkin-Elmer Corp. Radiant energy shutter apparatus. 3,052,172, 9–4–62, Cl. 95—53.
Maurer, John A., to AMP Inc. Connector assembly. 3,065,447, 11–20–62, Cl. 339—184.
Maurer, Ringspann Albrecht, K.G.: *See*—
Maurer, Albrecht, 3,066,778.
Maurer, Albrecht, and Giese. 3,066,779.
Maurer, Spencer B., to Gardner-Denver Co. Rotary impact tool. 3,063,973, 12–18–62, Cl. 192—096.
Maurice, Jean, to Francaise du Ferodo, Societe Anonyme. Circuit feeding an electromagnetic clutch. 3,064,774, 11–20–62, Cl. 192—052.
Maurice, Jean, and M. Rist, to Societe Anonyme Francaise du Ferodo. Electromagnetic clutches. 3,042,164, 7–3–62, Cl. 192—84.
Maurice, Paul E., to Heatbath Mfg. Co., Inc. Space heater. 3,042,020, 7–3–62, Cl. 126—110.
Mauro, Eugene, and S. M. Pestronk. Helmet. 3,042,927, 7–10–62, Cl. 2—3.
Maury, Lucien G.: *See*—
Levering, Dewey R., and Maury. 3,062,887.
Maury, Lucien G., and G. F. Nahill, to Hercules Powder Co. Method of removing nitrogen oxides from fluids and nitrous acid. 3,044,844, 7–17–62, Cl. 23—2.
Maury, Lucien G., and G. F. Nahill, to Hercules Powder Co. Separation of solvated fixed nitrogen from compounds containing same. 3,044,853, 7–17–62, Cl. 23—157.
Mauser Kommandit-Gesellschaft: *See*—
Mühlhoff, Friedrich. 3,019,956.
Muhlhoff, Friedrich. 3,058,623.
Mauser, Kommandit-Gesellschaft, Firma: *See*—
Muhlhoff, Friedrich. 3,028,993.
Mauthe, Gustav: *See*—
Komarek, Ernst, and Mauthe. 3,065,039.
Luck, Wolfhard, and Mauthe. 3,025,260.
Luck, Wolfhard, and Mauthe. 3,036,877.
Zorn, Bruno, and Mauthe. 3,015,649.
Mauthner, Thomas: *See*—
Elsenberg, David J., and Mauthner. 3,020,125.
Mauz, Otto: *See*—
Schülde, Felix, and Mauz. 3,020,259.
Mauz & Pfeiffer: *See*—
Palmer, Gerhard, and Kuchar. 3,066,340.
Mavor & Coulson Ltd.: *See*—
Wise, John B. 3,061,075.
Mavrovic, Ivo, to Chemical Construction Corp. Method for compressing urea synthesis off-gas. 3,038,285, 6–12–62, Cl. 55—48.
Mawson, Jack F.: *See*—
Heslop, Robert N., Legg, Mawson, Stephen, and Wardleworth. 3,042,475.
Max, Heinz, to Dornier-Werke G.m.b.H. Trailing edge flaps for airplane wings. 3,061,244, 10–30–62, Cl. 244—42.
Maxa, Richard F.: *See*—
Pickering, Thomas S., Kasper, Arseneau, and Maxa. 3,038,969.
Maxcy, Jack E.: *See*—
Hillyer, Murrel N., and Maxcy. 3,025,757.
Maxen, Harry. Cattle knocking hammer. 3,027,593, 4–3–62, Cl. 17—1.
Maxey, Edwin M.: *See*—
Gmitter, George T., Maxey, and Sanger. 3,021,290.
Maxim, Rayfeld J.: *See*—
De Snoo, Arie P., and Maxim. 3,069,609.

Maximoff, Paul A., S. J. Krol, and J. B. Sola, to Malco Mfg. Co. Electrical socket assembling machine. 3,063,139, 11–13–62, Cl. 29—203.
Maximoff, Paul A., S. J. Krol, and J. B. Sola, to Malco Mfg. Co. Lug inserter. 3,067,902, 12–11–62, Cl. 218—.5.
Maxon Construction Co., Inc. : *See—*
Maxon, Glenway W., Jr. 3,043,201.
Maxon, Glenway, Jr. Concrete mixing apparatus. 3,021,122, 2–13–62, Cl. 259—171.
Maxon, Glenway W., Jr., to Maxon Construction Co., Inc. Machine for distributing flowable materials. 3,043,201, 7–10–62, Cl. 94—46.
Maxon Premix Burner Co. : *See—*
Yeo, Robert H., and Waid. 3,051,464.
Maxson Electronics Corp. : *See—*
Gittleman, Ralph. 3,030,022.
Grady, Charles B., Jr. 3,024,358.
Gruenberg, Elliot L. 3,020,539.
Weaver, Preston R. 3,022,393.
Weaver, Preston R. 3,057,976.
Wolff, Hanns H. 3,020,544.
Maxson, John C. Clasps. 3,038,377, 6–12–62, Cl. 88—52.
Maxson, John C. Eye glasses. 3,059,531, 10–23–62, Cl. 88—41.
Maxson, Julian W. : *See—*
Barber, Earle W. and E. W. Barber, Jr. 3,019,897.
Maxwell Bros. Co. : *See—*
Wright, Benjamin H. 3,030,867.
Maxwell, Bryce, to Research Corp. Method and apparatus for extrusion. 3,046,603, 7–31–62, Cl. 18—12.
Maxwell, Charles E., III, and P. N. Gordon, to Chas. Pfizer & Co., Inc. Process for the preparation of 2-(2′-furfurylmercapto) pyridine-1-oxides. 3,056,798, 10–2–62, Cl. 260—294.8.
Maxwell, Dagmar M. : *See—*
Maxwell, Grant H. 3,062,214.
Maxwell, Grant H., deceased ; D. M. Maxwell, administratrix, to Hairagain, Inc. Method of implanting fibers in the scalp. 3,062,214, 11–6–62, Cl. 128—330.
Maxwell, John L. : *See—*
Clark, Orville A., Maxwell, and Thompson. 3,038,031.
Maxwell, Lloyd R. Dynamometer. 3,020,753, 2–13–62, Cl. 73—117.
Maxwell, Louis R. Method and means for detecting submarines. 3,023,310, 2–27–62, Cl. 250—43.5.
Maxwell, Richard C., and D. G. Stoffey, to Stauffer Chemical Co. 2 : 0,0 : dialkylphosphoro- dithioyl - methylmercapto)-carbamates and -carbanilates. 3,018,216, 1–23–62, Cl. 167—22.
Maxwell, Robert E. : *See—*
Daugherty, Henry J., and Maxwell. 3,019,680.
Daugherty, Henry J., and Maxwell. 3,059,512.
Maxwell, Robert H. Water-borne trampoline. 3,047,294, 7–31–62, Cl. 272—65.
Maxwell, William J., to Pittsburgh Plate Glass Co. Shipping container. 3,064,845, 11–20–62, Cl. 217—43.
May, Armand : *See—*
Brown, Clarence M., and Vaughan. 3,039,379.
May & Baker Ltd. : *See—*
Ashley, Julius N., Collins, and Davis. 3,052,722.
Collins, Raymond F., and Davis. 3,060,190.
Holland, Anthony, and Slack. 3,026,332.
Lee, Glyn E., and Wragg. 3,060,143.
Wragg, William R., and Bretherick. 3,020,288.
May, Carl J., Jr., to Bell Telephone Laboratories, Inc. Signal transmission gate. 3,027,524, 3–27–62, Cl. 333—7.
May, Charles W. : *See—*
Jones, Frederic C., and May. 3,037,097.
May, Charles W., and R. W. Halberg, to Borg-Warner Corp. Vacuum reference control for pressure compensation. 3,020,776, 2–13–62, Cl. 74—472.
May, Clara L. : *See—*
May, Dewey C. 3,021,847.
May, Claude H., to Walker Mfg. Co. Automotive device. 3,058,453, 10–16–62, Cl. 123—33.
May, Claude H., to Walker Mfg. Co. Fuel injector-igniter. 3,060,912, 10–30–62, Cl. 123—33.
May, Claude H., to Walker Mfg. Co. Fuel injector-igniter. 3,060,913, 10–30–62, Cl. 123—33.
May, Claude H., to Walker Mfg. Co. Ignition device for internal combustion engines. 3,066,661, 12–4–62, Cl. 123—143.
May, Claude H., and K. H. Rhodes, to Walker Mfg. Co. Fuel injection nozzle. 3,055,593, 9–25–62, Cl. 239—87.
May, Claude H., and K. H. Rhodes, to Walker Mfg. Co. Ignition device for internal combustion engines. 3,066,662, 12–4–62, Cl. 123—143.
May, Dewey C., ½ to V. F. May, and ½ to C. L. May. Combination package and self-lighting cigarettes. 3,021,847, 2–20–62, Cl. 131—7.
May, Ellwood H., and V. J. Kritske, to Mayline Co., Inc. Counterbalanced tiltable table. 3,052,057, 9–4–62, Cl. 45—131.
May, Frank H., and V. V. Levasheff, to American Potash & Chemical Corp. Recovery of borate values from calcium borate ores. 3,018,163, 1–23–62, Cl. 23—59.
May, Frederick T. : *See—*
Bauer, Hugo, May, and Lopenski. 3,017,852.
Chauvin, Bernard, and May. 3,017,991.
Summers, William J., and May. 3,029,846.
May, George : *See—*
Daponte, Demetre, and May. 3,032,458.
May, George A. Inverted drilling machine. 3,041,896, 7–3–62, Cl. 77—33.5.
May, Harry C. : *See—*
Poore, Wallace F., and May. 3,035,757.
May, Harry C., to Westinghouse Air Brake Co. Locomotive brake equipment with improved vent valve and brake pipe cut-off valve interlock. 3,022,119, 2–20–62, Cl. 303—67.
May, James L., 50% to W. B. Westcott. Therapeutic table. 3,060,926, 10–30–62, Cl. 128—25.
May, Jesse : *See—*
Brown, Milton, and May. 3,030,791.
May, John C. Camping trailer. 3,065,019, 11–20–62, Cl. 296—23.
May, Malcolm : *See—*
Karchenes, George. 3,021,755.
May, Michael : *See—*
Schmidlin, Frederick W., and May. 3,054,978.
May, Michael. Method and apparatus adapted to feed in pulsating manner into a chamber subjected to periodic pressure variations a substance capable of flowing. 3,029,799, 4–17–62, Cl. 123—32.
May, Michael, and D. L. Curtis, to Hughes Aircraft Co. Electronic circuits for selectively shifting the time position of digital data. 3,026,500, 3–20–62, Cl. 340—174.1.
May, Olen E. : *See—*
Berry, Bernie B., Jr., Davis, May, and Younge. 3,061,252.
May, Oscar R. Speaker unit for drive-in theater. 3,067,834, 12–11–62, Cl. 181—31.
May, Paul D., and R. J. Lee, to Standard Oil Co. Mercapto-7,8a,4,7,7a - pentahydro - 4,7 - methanoindenes. 3,025,327, 3–13–62, Cl. 260—609.
May, Richard D., to Electric Regulator Corp. Switch assembly. 3,042,768, 7–3–62, Cl. 200—81.9.
May, Richard L., and F. H. Ingwersen, to General Motors Corp. Single solenoid signal tuned receiver. 3,037,390, 6–5–62, Cl. 74—10.27.
May, Richard W., to The Rust Industrial Co., Inc. Method and apparatus for chart recording. 3,048,848, 8–7–62, Cl. 346—78.
May, Russell D., to The Youngstown Sheet and Tube Co. Filter and separator for demulsified oil and water mixture and method of filtering and separating such mixtures. 3,035,701, 5–22–62, Cl. 210—114.
May, Russell D., to H_2 Oil Engineering Corp. Heater stage treatment for hydrocarbon emulsions. 3,040,499, 6–26–62, Cl. 55—166.
May, Thomas L., and R. H. Zankl, to U.S. Rivet Machine Corp. Riveting machine. 3,043,168, 7–10–62, Cl. 78—48.
May, Walter C., G. P. Richards and C. B. Fites, to Wagner Electric Corp. Control valve. 3,060,899, 10–30–62, Cl. 121—38.
May, Walter M., to Mack Trucks, Inc. Truck cab construction. 3,055,699, 9–25–62, Cl. 296—28.
May, Wilhelm, to Beteiligungs- und Patentverwaltungsgesellschaft mit beschrankter Haftung. Hammer crusher. 3,044,719, 7–17–62, Cl. 241—194.
Mayall, William, to Kingston Instrument Co. Ltd. Magnetic retrieving tool. 3,019,845, 2–6–62, Cl. 175—328.
Maybach-Motorenbau G.m.b.H. : *See—*
Gros, Hermann. 3,064,455.
Noll, Hans. 3,044,592.
Seifert, Richard. 3,070,079.
Seifert, Richard, and Baur. 3,064,633.
Mayborn Products Ltd. : *See—*
Radley, Jack A., Stanley, and Smith. 3,056,644.
Mayer, Carl H., Jr., to Rust-Oleum Corp. Straining arrangement for paint and similar liquids. 3,061,102, 10–30–62, Cl. 210—142.
Mayer, Charles B. : *See—*
Pan, Paul M., and Mayer. 3,066,294.
Mayer, Charles B., to General Electric Co. Broadband coupling between helix and coaxial line. 3,050,656, 8–21–62, Cl. 315—3.5.
Mayer, Donald W., to Tung-Sol Electric Inc. Method of making cold cathodes for vacuum tubes and article. 3,041,-210, 6–26–62, Cl. 117—222.
Mayer, Edward F., to General Dynamics Corp. Electrostatic printing. 3,043,684, 7–10–62, Cl. 96—1.
Mayer, Edwin H., to Simmons Co. Safety side. 3,045,259, 7–24–62, Cl. 5—331.
Mayer, Edwin H., to Simmons Co. Safety side mounting kit. 3,059,250, 10–23–62, Cl. 5—331.
Mayer, Harold, to Garlock Inc. Slide ring seal. 3,026,112, 3–20–62, Cl. 277—3.
Mayer, Ernst, to Hunt Foods, Inc. Apparatus for concentrating food products. 3,050,114, 8–21–62, Cl. 159—25.
Mayer, Friedrich, to Messen-Jaschin, G.A. Electrical precipitators. 3,028,714, 4–10–62, Cl. 183—7.
Mayer, Gary L. : *See—*
Gugliemelli, Lewis A., Mayer, and Russell. 3,032,550.
Gugliemelli, Lewis A., Mayer, and Russell. 3,037,018.
Gugliemelli, Lewis A., Mayer, and Russell. 3,063,855.
Mayer, Godfried J. Rotary blowers. 3,053,438, 9–11–62, Cl. 230—157.
Mayer, Gottfried O., and O. E. Seiferth, to Oscar Mayer & Co., Inc. Sliced sausage package. 3,044,886, 7–17–62, Cl. 99—174.
Mayer, Hans : *See—*
Cromberg, Otto, Pritzbuer, Winterhoff, and Mayer. 3,067,476.
Mayer, Helmut O. Starter for internal combustion engines. 3,040,726, 6–26–62, Cl. 123—185.

Mayer, Jacob J.: *See*—
La Patka, Lawrence T., and Mayer. 3,027,526.
Mayer, James W.: *See*—
Friedlanc, Stephen S., Mayer, and Wiggins. 3,043,955.
Mayer, Joseph S., 12% to I. Quam, 12% to M. E. Brayton, 12% to R. C. Grove, and 12% to L. B. Thompson. Straw-spoon amusement device. 3,038,256, 6–12–62, Cl. 30—141.
Mayer, Joseph W., to Johnson & Johnson. Towel roll holder. 3,038,676, 6–12–62, Cl. 242—55.2.
Mayer, Karl, Erste Hessische Wirkmaschinenfabrik G.m.b.H.: *See*—
Kohl, Karl. 3,063,273.
Mayer, Karl, Hessische Wirkmaschinenfabrik G.m.b.H.: *See*—
Kohl, Karl. 3,066,510.
Mayer, Kurt: *See*—
Besel, Wilhelm, Englert, and Mayer. 3,064,797.
Mayer, Leonard: *See*—
Gustafson, Edwin A. 3,023,561.
Mayer, Lewis H., to American Machine & Foundry Co. Electromagnetic relays. 3,051,804, 8–28–62, Cl. 200—87.
Mayer, Ludwig J., to General Mills, Inc. Ball microscope. 3,047,719, 7–31–62, Cl. 250—49.5.
Mayer, Ludwig J., R. J. Rickett, and H. F. Stenemann, to General Mills, Inc. Method of forming bismuth whiskers. 3,063,866, 11–13–62, Cl. 117—71.
Mayer, Oscar, & Co., Inc.: *See*—
Hansen, Leo J., Podebradsky, and Shaw. 3,041,182.
Keating, Raymond J., Orloff, and Pernot. 3,025,943.
Kielsmeier, Elwood W., and Gara. 3,050,399.
Mayer, Gottfried O., and Seiferth. 3,044,886.
Millenaar, Richard J. 3,059,272.
Podebradsky, Everett V. 3,063,842.
Runge, Heinz F. 3,042,963.
Schmook, Edward, Jr. 3,030,993.
Seiferth, Oscar E., and Austin. 3,070,446.
Steinberg, Jack. 3,055,246.
Vedvik, Andrew H. 3,065,882.
Weaver, John A. 3,057,339.
Mayer, Robert E.: *See*—
Sporn, Stanley R., and Mayer. 3,038,451.
Mayer, Rollin P.: *See*—
Housman, Bennett, Jeffrey, Mayer, and Thompson. 3,045,217.
Mayer, Siegfried K., and A. C. Ferrara. Portable casing cleaner and applier for casing stuffers. 3,049,749, 8–21–62, Cl. 17—43.
Mayer, Stanley W., to North American Aviation, Inc. Lightweight electrode. 3,032,600, 5–1–62, Cl. 136—6.
Mayer, Stanley W., to United States of America, Atomic Energy Commission. Fused reactor fuels. 3,063,923, 11–13–62, Cl. 204—154.2.
Mayer, Walter: *See*—
Thier, Richard, Mayer, and Meinl. 3,061,731.
Mayer, Wilbur, to The Louden Machinery Co. Current collector for electrified trolley systems. 3,042,761, 7–3–62, Cl. 191—59.1.
Mayers, Karl F., to Philips Electronics and Pharmaceutical Industries Corp. Method for making a glass to metal seal. 3,035,372, 5–22–62, Cl. 49—81.
Mayes, Fred M.: *See*—
Bennett, John, Chaney, Jones, and Mayes. 3,047,794.
Bennett, John, Chaney, Jones, and Mayes. 3,052,838.
Bennett, John, and Mayes. 3,047,796.
Bennett, John D., and Mayes. 3,016,963.
Mayes, Fred M., to Sun Oil Co. Metering means. 3,042,258, 7–3–62. Cl. 222—26.
Mayes, Fred M., to Sun Oil Co. Bore hole logging apparatus. 3,065,406, 11–20–62, Cl. 324—1.
Mayes, Fred M., and J. W. Jones, to Sun Oil Co. Tank gauge. 3,034,217, 5–15–62, Cl. 33—126.6.
Mayes, Fred M., and J. W. Jones, to Sun Oil Co. Bore hole logging apparatus. 3,065,404, 11–20–62, Cl. 324—1.
Mayfield, Alfred L., and R. J. Staffa, to Texas Gulf Sulphur Co. Method and apparatus for treating sea water to remove objectionable hardness. 3,026,261, 3–20–62, Cl. 210—56.
May-Fran Mfg. Co.: *See*—
Franz, Ethan W. P. 3,034,638.
Mayhercy, Kenneth W. Tire-traction device. 3,043,356, 7–10–62. Cl. 152—208.
Mayhew, Eldon J., to Halliburton Co. Oil and gas well cementing composition. 3,036,633, 5–29–62, Cl. 166—31.
Mayhew, Raymond L.: *See*—
Buc, Saul R., Freyermuth, Mayhew, and Randall. 3,062,830.
Freyermuth, Harlan B., and Mayhew. 3,062,831.
Grifo, Richard A., and Mayhew. 3,022,250.
Mayhew, Raymond L., J. P. Miller, III, and M. Kopp, to General Aniline & Film Corp. Dry cleaning compositions. 3,018,251, 1–23–62, Cl. 252—152.
Mayle, Louis F., to International Telephone and Telegraph Corp. Dynamic focusing. 3,021,073, 2–13–62, Cl. 235—192.
Mayline Co., Inc.: *See*—
May, Ellwood H., and Kritske. 3,052,057.
Maynard, Charles E., to The Bendix Corp. Pressure intensifying unit. 3,050,945, 8–28–62, Cl. 60—54.6.
Maynard, John T., to A. O. Smith Corp. Motor pump construction. 3,041,976, 7–3–62, Cl. 103—87.
Maynard, Kermit W., to Rohr Aircraft Corp. Titanium stretch forming. 3,021,887, 2–20–62, Cl. 153—48.
Maynard, Richard H.: *See*—
Bell, Lewis W., Eager, and Maynard. 3,055,008.
Maynard, Robert E. Lunch box. 3,054,501, 9–18–62, Cl. 206—4.
Maynard, Robert W., to The Mosler Safe Co. Tamper proof combination lock. 3,038,325, 6–12–62, Cl. 70—443.
Maynard, Wheeler D., to General Railway Signal Co. Multiple contact devices. 3,035,128, 5–15–62, Cl. 200—24.
Mayne, John E. O., H. Warson, and R. M. Levine, to Vinyl Products Ltd. Vinyl acetate copolymer compositions. 3,025,253, 3–13–62, Cl. 260—23.
Mayne, Robert A., deceased; R. D. Mayne, executrix. Method of making a blower wheel. 3,055,085, 9–25–62, Cl. 29—156.8.
Mayne, Robert A., deceased (R. D. Mayne, executrix), and A. F. Leis; said Leis assor. to said Mayne. Method of making blower rotor. 3,021,591, 2–20–62, Cl. 29—156.8.
Mayne, Robert A., deceased (R. D. Mayne, executrix), and A. F. Leis. Blower rotor. 3,055,578, 9–25–62, Cl. 230—134.
Mayne, Robert H., to Bell Telephone Laboratories, Inc. Counter. 3,033,452, 5–8–62, Cl. 235—92.
Mayne, Ruth D.: *See*—
Mayne, Robert A. 3,055,085.
Mayne, Robert A., and Leis. 3,021,591.
Mayne, Robert A., and Leis. 3,055,578.
Maynier, Stella, and J. Victor; said Victor assor. to said Maynier. Fluid applicators. 3,015,836, 1–9–62, Cl. 15—543.
Mayo, Carlos E., to Sav-Mor Feeder Co., Inc. Poultry feeder. 3,035,545, 5–22–62, Cl. 119—52.
Mayo, Clyde R., to Xerox Corp. Electrophotographic copying apparatus. 3,062,094, 11–6–62, Cl. 88—24.
Mayo, Clyde R., to Xerox Corp. Electrophotographic copying apparatus. 3,062,108, 11–6–62, Cl. 95—1.7.
Mayo, Clyde R., and D. W. Shepardson, to Xerox Corp. Xerographic reproducing apparatus. 3,062,109, 11–6–62, Cl. 95—1.7.
Mayo, John S.: *See*—
Helder, George K., and Mayo. 3,048,819.
Mann, Henry, and Mayo. 3,057,962.
Mayo, Roy E.: *See*—
Cohron, Gerald T., and Mayo. 3,049,819.
Mayor, Rowland H., R. Leshin, and B. Wargotz, to The Goodyear Tire & Rubber Co. Method of making polymer. 3,047,559, 7–31–62, Cl. 260—94.3.
Mayr, Gottfried. Jet propelled ski. 3,044,566, 7–17–62, Cl. 180—3.
Mayr, Henry B.: *See*—
Foster, Tom, Jaklitsch, Mayr, and Walter. 3,048,365.
Mayr, Rimar, to Dr. Ing. Porsche Firma, h.c.F., K.G. Control arrangement for tractors. 3,047,086, 7–31–62, Cl. 180—79.2.
Mayrath Co.: *See*—
Stauth, Samuel K. 3,038,591.
Mays, Charles D.: *See*—
Teague, Claude E., Jr., James, and Mays. 3,060,172.
Mays, Howard D., R. P. Moore, and K. M. Claus, to The Mosaic Tile Co. Apparatus for handling ceramic green goods. 3,036,355, 5–29–62, Cl. 25—45.
Mays, James R. Cloth inspection unit. 3,030,689, 4–24–62, Cl. 26—70.
Mays, James R. Hospital recovery service unit. 3,032,057, 5–1–62, Cl. 137—355.16.
Mays, Rolland L., H. B. Rhodes, and F. W. Leavitt, to Union Carbide Corp. Reactivation of molecular sieves. 3,069,362, 12–18–62, Cl. 252—449.
Mays, Rolland L., H. B. Rhodes, and F. W. Leavitt, to Union Carbide Corp. Reactivation of molecular sieves. 3,069,363, 12–18–62, Cl. 252—449.
Maytag Co., The: *See*—
Bergeson, Richard P., and Bergman. 3,022,656.
Burkland, Charles W. Re. 25,157.
Doty, Roger F. 3,022,580.
Dutcher, Ival G. 3,027,217.
Lannert, James W. 3,049,025.
Mellinger, John C. 3,048,027.
Mellinger, John C., and Martin. 3,040,440.
Smith, Thomas R. Re. 25,125.
Smith, Thomas R. 3,022,581.
Smith, Thomas R. 3,050,974.
Smith, Thomas R., Davis, McNally, and Cochran. 3,035,431.
Smith, Thomas R., and Decatur. 3,035,429.
Maytner, Stephen P. Methods and apparatus for suppressing jet noise. 3,027,710, 4–3–62, Cl. 60—35.6.
Maze, Robert O., to United States of America, Air Force. Crystal controlled converter. 3,029,337, 4–10–62, Cl. 250—20.
Maze, Robert O., to Minneapolis-Honeywell Regulator Co. Mass rate flow meter. 3,060,736, 10–30–62, Cl. 73—194.
Mazeika, Albert, to Milton Mfg. Co., Inc. Pressure gauges. 3,019,657, 2–6–62, Cl. 73—419.
Mazeika, Albert, to Milton Mfg. Co., Inc. Anchors for use in connection with signal hose. 3,022,095, 2–20–62, Cl. 285—45.
Mazur, Mitchell, to Ford Motor Co. Tool for shaping tubular material. 3,031,904, 5–1–62, Cl. 81—15.
Mazur, Paul A., to S & M Chemicals, Ltd. Organo-tin compounds of organic amines. 3,037,039, 5–29–62, Cl. 260—429.7.
Mazur, Sylvester S.: *See*—
Herbenar, Edward J., and Mazur. 3,068,031.

Mazurlo Corp.: *See*—
Kyser, Smith. 3,052,375.

Mazza, Robert V.: *See*—
Dreyfoos, Alex W., Jr., Mazza, Radke, and Stafey. 3,055,006.

Mazzadra, Alfred A. Spinning toy. 3,039,228, 6–19–62, Cl. 46—47.

Mazzagatti, Roy P., to Texaco Inc. Transducer assemblies. 3,051,927, 8–28–62, Cl. 340—17.

Mazzanti, Giorgio: *See*—
Natta, Giulio, Pino, and Mazzanti. 3,037,972.

Mazzarins, Janis, to General Motors Corp. Scraper bowl. 3,057,090, 10–9–62, Cl. 37—126.

Mazzella, Nicolas. Swimming-flipper with staged propulsion-surfaces. 3,032,787, 5–8–62, Cl. 9—309.

Mazzeo, Rosario. Clarinet. 3,035,473, 5–22–62, Cl. 84—382.

Mazzi, Angelo and T. Cupped tray for holding fruits and the like. 3,049,259, 8–14–62, Cl. 217—26.5.

Mazzi, Aramis. Circular knitting machines, particularly for producing stockings. 3,066,508, 12–4–62, Cl. 66—50.

Mazzi, Aramis, to Solis Societa a Responsabilita Limitata. Jack control device for circular knitting machine. 3,067,-599, 12–11–62, Cl. 66—50.

Mazzi, Tullio: *See*—
Mazzi, Angelo and T. 3,049,259.

Mazzio, Anthony J.: *See*—
Du Bois, Edgar H., Mazzio, and Birr. 3,055,222.

Mazzucchelli, Arthur P.: *See*—
Jurgens, Appy, Mazzucchelli, and Bugel. 3,041,131.

McAdam, John C., to International Electronic Research Corp. Heat dissipators for transistors. Re. 25,184, 6–12–62, Cl. 317—234.

McAdam, John C., to International Electronic Research Corp. Right angle heat dissipating tube shield. 3,020,451, 2–6–61, Cl. 317—101.

McAdam, Ralph E., E. K. Letzer, and J. S. Pollock, to Eastman Kodak Co. Photographic printer. 3,025,758, 3–20–62, Cl. 88—24.

McAdam, Raymond L.: *See*—
Shafer, Richard G., and McAdam. 3,066,026.

McAdam, Will, and J. H. Moore, to Leeds and Northrup Co. Servosystem with push-pull fed servomotor and D.-C. component suppression. 3,045,155, 7–17–62, Cl. 318—28.

McAdams, Bruce, to International Telephone and Telegraph Corp. Multiplex communication system. 3,040,128, 6–19–62, Cl. 178—50.

McAdams, Paul F., to Clark Equipment Co. Tilting bulldozer blade. 3,018,573, 1–30–62, Cl. 37—144.

McAdams, Paul F., to Clark Equipment Co. Power steering mechanism. 3,032,135, 5–1–62, Cl. 180—79.2.

McAdams, Paul F., and B. V. Christensen, to Clark Equipment Co. Removable weight for vehicle. 3,023,024, 2–27–62, Cl. 280—150.

McAdams, Paul F., C. L. Ellis, and B. V. Christensen, to Clark Equipment Co. Cleaner for compaction machines. 3,063,177, 11–13–62, Cl. 37—140.

McAfee, Clif, to State Industries. Vertically adjustable chairs. 3,033,511, 5–8–62, Cl. 248—421.

McAfee, Kenneth B., Jr.: *See*—
Kohman, Girard T., and McAfee. 3,019,853.

McAfee, Robert E., and P. H. Goldsmith, to International Harvester Co. Transmission control. 3,043,413, 7–10–62, Cl. 192—98.

McAfee, Robert E., J. R. Eddy, and R. L. Moser, to International Harvester Co. Lubricating means for a power transmission. 3,065,822, 11–27–62, Cl. 184—6.

McAleer, William J.: *See*—
Barkemeyer, Henry R., McAleer, and Pollak. 3,063,871.

McAlister, Charles G., R. J. Lee, and H. M. Knight, to Standard Oil Co. Carboxylic acids. 3,053,869, 9–11–62, Cl. 260—413.

McAlister, Craig L., to McGraw-Edison Co. Protectors for electric circuits. 3,023,289, 2–27–62, Cl. 200—131.

McAlister, J. G., Inc.: *See*—
Logan, Ralph L. 3,034,029.

McAllan, David T.: *See*—
Pethrick, Samuel R., and McAllan. 3,033,664.

McAllise, Raymond J., to The Kaman Aircraft Corp. Electrical power supply system. 3,047,727, 7–31–62, Cl. 307—2.

McAllister, Harry E. Telephone equipment. 3,069,512, 12–18–62, Cl. 179—175.2.

McAllister, Jack S. Mouse trap. 3,055,140, 9–25–62, Cl. 43—81.

McAllister, Robert W. Stable, dry bordeaux mixture. 3,024,-161, 3–6–62, Cl. 167—16.

McAlpine, Charles H., K. G. McGowan, and H. C. Winkel, to Winkel Machine Co., Inc. Grid feeding device. 3,057,453, 10–9–62, Cl. 198—33.

McAlpine, Vernon W.: *See*—
Carter, Frederic E., McAlpine, and Kaerwer. 3,054,219.

McAnallen, Charles K.: *See*—
Mills, Jack F., McAnallen, and Montgomery. 3,053,763.

McAndrews, Anthony J., and R. V. Stumph, to General Motors Corp. Method and apparatus for assembling wheel hub. 3,052,955, 9–11–62, Cl. 29—148.4.

McAngus, Eli H.: *See*—
Wilson, Charles C., Dunn, and McAngus. 3,029,179.

McAninch, Herbert A., and V. M. Tharpe, to Borg-Warner Corp. Transmission. 3,053,103, 9–11–62, Cl. 74—342.

McAnulty, Gerald M.: *See*—
Bartson, Lester J., and McAnulty. 3,017,267.

McArdle, Henry J. Suction box cover. 3,022,821, 2–27–62, Cl. 162—374.

McArdle, Joseph T.: *See*—
Fink, Donald E., and McArdle. 3,029,826.

McArthur, Donald S.: *See*—
Heigl, John J., Wilson, and McArthur. 3,027,083.

McArthur, Donald S., P. J. Lucchesi, and R. B. Long, to Esso Research and Engineering Co. Radiochemical conversion of hydrocarbons. 3,055,818, 9–25–62, Cl. 204—158.

McArthur, Ralph F.: *See*—
Coberly, Clarence J., and McArthur. 3,025,798.

McAtee, J. L.: *See*—
Starks, Ernest E. 3,029,819.

McAteer, Bernard G.: *See*—
Kuchta, Ferenc, and McAteer. 3,064,351.
Wertepny, Rudolph J., Sr., and McAteer. 3,064,350.

McAulay, Robert, and W. G. Richardson, to Megator Pumps and Compressors Ltd. Float controlled switch assemblies. 3,018,346, 1–23–62, Cl. 200—84.

McAuley, James E., to W. D. Sellers. Water softening system. 3,063,937, 11–13–62, Cl. 210—35.

McAuley, James H., to McAuley Mfg., Inc. Flexible chain. 3,015,380, 1–2–62, Cl. 198—176.

McAuley, James W.: *See*—
McCown, William E., and McAuley. 3,022,202.

McAuley Mfg., Inc.: *See*—
McAuley, James H. 3,015,380.

McAvoy, Daniel J.: *See*—
Speer, Paul, Griggs, and McAvoy. 3,046,286.

McAvoy, Robert W., to Rua and Swendsen, Inc. Dump car. 3,043,243 7–10–62, Cl. 105—260.

McBain, John R., to W. C. Ritchie Division Stone Container Corp. Dusting powder box. 3,047,199, 7–31–62, Cl. 229—6.

McBean, Douglas M., and L. C. Tallman, to Rochester Button Co. Button feeding mechanism for sewing machines. 3,024,747, 3–13–62, Cl. 112—113.

McBean, Douglas M., and L. C. Tallman. Apparatus for simultaneously sewing a plurality of buttons on or buttonholes in a fabric. 3,068,816, 12–18–62, Cl. 112—65.

McBee Co. Ltd., The: *See*—
Hoff, Wally C., and Somerville. 3,064,567.

McBee, Virgil N.: *See*—
Yarborough, Mathias V., and McBee. 3,053,430.

McBerty, Robert K. Hydraulically operated pruning tool. 3,039,189, 6–19–62, Cl. 30—245.

McBrayer, Marvin L.: *See*—
Mead, Carver A., and McBrayer. 3,046,479.

McBriar, Henry C.: *See*—
Marshall, Edward C., and McBriar. 3,064,743.

McBride, Jack J., to Seiberling Rubber Co. Automobile floor mat. 3,052,314, 9–4–62, Cl. 180—90.6.

McBride, John P., to United States of America, Atomic Energy Commission. Method of combining hydrogen and oxygen. 3,023,085, 2–27–62, Cl. 23—204.

McBride, Joseph R., and D. G. De Bolt, to A. B. Chance Co. Switch gear. 3,070,680, 12–25–62, Cl. 200—146.

McBride, Marion E.: *See*—
McBride, Richard F. 3,019,034.

McBride, Richard F., 90% to M. E. McBride and 10% to G. D. Hinreiner. Simplified accounting system. 3,019,034, 1–30–62, Cl. 283—66.

McBride, Tom J.: *See*—
English, Arthur R., and McBride. 3,061,513.

McBride, William E., to Owens-Illinois Glass Co. Tool for mounting plastic handles on bottles. 3,052,971, 9–11–62, Cl. 29—235.

McBrien, Edward F., to The Ohio Crankshaft Co. Induction heating apparatus. 3,067,308, 12–4–62, Cl. 219—10.75.

McBurnett, Cecil F.: *See*—
Henecke, William R., McBurnett, and Badgett. 3,015,624.

McBurney, Charles H.: *See*—
Richter, George A., Jr., McBurney, and Kine. 3,055,729.

McCabe, Owen J., to The Superior Electric Co. Electrical connector. 3,060,398, 10–23–62, Cl. 339—14.

McCabe-Powers Body Co.: *See*—
Bakula, Robert G. 3,042,398.
Balogh, Roy O. 3,034,658.
Hall, Thomas R. 3,033,297.
Hall, Thomas R. 3,043,394.
Hall, Thomas R. 3,043,443.

McCachern, Carey W., Jr.: *See*—
Jordan, Harold K., and McCachern. 3,045,588.

McCafferty, Edward A., to The National Marketing Machine Co. Ink compositions. 3,066,105, 11–27–62, Cl. 252—301.2.

McCaffrey-Ruddock Tagline Corp.: *See*—
Griffitts, Henry V. 3,062,479.

McCahon, John O., to The Smyth Mfg. Co. Apparatus for assembling components of cases for books. 3,068,501, 12–18–62, Cl. 11—2.

McCain, George H., to Diamond Alkali Co. Chemical process for preparing fulvene compounds. 3,051,765, 8–28–62, Cl. 260—666.

McCain, William B., to Chicago Machinery Laboratory, Inc. Signature gathering and stitching machine. 3,057,620, 10–9–62, Cl. 270—53.

McCall Corp.: *See*—
Kramer, Lawrence I. 3,027,021.

McCall, Donald O., to Basalt Rock Co., Inc. Concrete floating wharf. 3,022,759, 2–27–62, Cl. 114—.5.

McCall, Ernest B.: *See*—
Brown, Joseph P., and McCall. 3,045,046.
Lynch, Eric J., and McCall. 3,035,099.
McCall, Everett C. Drill bit guiding and locating apparatus. 3,069,933, 12–25–62, Cl. 77—62.
McCall, Floyd and L. Flow meter. 3,049,009, 8–14–62, Cl. 73—231.
McCall, Floyd and L. Side delivery rake. 3,063,227, 11–23–62, Cl. 56—376.
McCall, Harold M., to Raymond International Inc. Collapsible pile core. 3,060,695, 10–30–62, Cl. 61—53.72.
McCall, Lloyd: *See*—
McCall, Floyd and L. 3,049,009.
McCall, Floyd and L. 3,063,227.
McCall, Marvin A.: *See*—
Coover, Harry W., Jr., and McCall. 3,043,821.
McCall, Marvin A., to Eastman Kodak Co. 1,1'-dithiobis(1-imino-2-cyano-3-hydroxy-2-alkanes). 3,068,273, 12–11–62, Cl. 260—465.5.
McCall, Marvin A., to Eastman Kodak Co. (2-cyano-3-amino) thio-2-alkenamides. 3,068,274, 12–11–62, Cl. 260—465.5.
McCall, Patrick P.: *See*—
Spars, Byron G., and McCall. 3,022,245.
McCall, Patrick P., to Esso Research and Engineering Co. High octane motor fuels. 3,034,878, 5–15–62, Cl. 44—69.
McCall, William B. Rotary internal combustion engine. 3,060,910, 10–30–62, Cl. 123—12.
McCallion, John D.: *See*—
Anderson, Gordon R., and McCallion. 3,029,334.
McCallister, James P., to Philco Corp. Transistor test circuit. 3,059,183, 10–16–62, Cl. 324—158.
McCallum, David J. Dry cleaning machine. 3,027,739, 4–3–62, Cl. 68—5.
McCallum, James G.: *See*—
Novak, Leo J., and McCallum. 3,043,796.
McCallum, John, T. B. Johnson, W. E. Ditmars, Jr., and L. D. McGraw, to Remington Arms Co., Inc. Electric current generating cells. 3,033,910, 5–8–62, Cl. 136—120.
McCamish, Robert R. Method and apparatus for hoisting poles. 3,028,022, 4–3–62, Cl. 214—3.
McCann, Robert G., to The Long Meg Plaster & Mineral Co. Ltd. Loading and transport of minerals in mines and quarries. 3,058,605, 10–16–62, Cl. 214—110.
McCandless, Robert W.: *See*—
Stephens, Clifford A., and McCandless. 3,047,526.
McCann, Celia: *See*—
McCann, De Witt. 3,068,958.
McCann, De Witt, deceased; C. McCann, executrix. Ladder. 3,068,958, 12–18–62, Cl. 182—89.
McCann, Donald H. Auxiliary sole for sport shoes. 3,020,654, 2–13–62, Cl. 36—7.5.
McCann, Floyd E., ¼ to H. McCann. Ice and post hole auger. 3,051,253, 8–28–62, Cl. 175—18.
McCann, Francis D., to The Singer Mfg. Co. Sewing machine having double stitch fingers. 3,046,920, 7–31–62, Cl. 112—16.
McCann, Herbert: *See*—
McCann, Floyd E. 3,051,253.
McCann, Robert E., and J. R. Reeve, Jr., to Cabot Corp. Drum with floating brake flange. 3,057,442, 10–9–62, Cl. 188—218.
McCann, Walter L., to Giddings & Lewis Machine Tool Co. Power actuated multiple valve. 3,052,262, 9–4–62, Cl. 137—622.
McCanna, Lawrence E.: *See*—
Koerner, Harry E., and McCanna. 3,048,696.
McCanse, James E.: *See*—
Johnson, James N., and McCanse. 3,070,246.
McCard, Henry W. False twister. 3,015,932, 1–9–62, Cl. 57—77.3.
McCardell, Willard B., to Michigan Tool Co. Apparatus for pressure forming toothed elements. 3,043,169, 7–10–62, Cl. 80—10.
McCardell, Willard B., to Michigan Tool Co. Method and apparatus for effecting a one-location assembly. 3,062,077, 11–6–62, Cl. 80—20.
McCarrell, Stuart G., to Beltone Hearing Aid Co. Transducer mounting means. 3,019,305, 1–30–62, Cl. 179—146.
McCarrell, Stuart G., and H. A. Wayne, to Beltone Hearing Aid Co. Hearing aid. 3,061,689, 10–30–62, Cl. 179—107.
McCarroll, Joseph F., Jr.: *See*—
Buegler, Robert J., and McCarroll. 3,033,447.
McCarten, Edward R.: *See*—
Holloway, Robert L., and McCarten. 3,033,633.
McCarter, Donald C., S. Ramachandran, and J. M. Held, to Allegheny Ludlum Steel Corp. Silicone mold coating. 3,047,917, 8–7–62, Cl. 22—192.
McCarter, Ed R., to Jersey Production Research Co. Synchronized power system. 3,056,077, 9–25–62, Cl. 321—45.
McCarter, Ed R., and R. L. Wilcox, to Jersey Production Research Co. Analog card programming device. 3,028,579, 4–3–62, Cl. 340—15.
McCarthy, Charles N.: *See*—
Diederich, Robert F., McCarthy, and Smaga. 3,030,825.
McCarthy, Donald D. Shoe sole. 3,024,790, 3–13–62, Cl. 128—589.
McCarthy, Edward J. Automatic valve for building roof drain downspouts. 3,026,893, 3–27–62, Cl. 137—119.
McCarthy, Edward L.: *See*—
Milinowski, Arthur S., Jr., McCarthy, and Fish. 3,057,258.
Schwarz, Alfred, and McCarthy. 3,052,753.
McCarthy, Edward L., to The Perkin-Elmer Corp. Anastigmatic catoptric systems. 3,062,101, 11–6–62, Cl. 88—57.
McCarthy, F. J., Inc.: *See*—
Greeley, Leo O. 3,022,587.
Greeley, Leo O. 3,028,699.
McCarthy, Henry J. Marine obstacle deflector. 3,066,640, 12–4–62, Cl. 115—42.
McCarthy, Horace F., to Avco Corp. Method of performing intestinal intubation. 3,043,309, 7–10–62, Cl. 128—348.
McCarthy, John, to Gar Wood Industries, Inc. Container dumping attachment for refuse trucks. 3,032,216, 5–1–62, Cl. 214—302.
McCarthy, Patrick G., to William Cotton, Ltd. Shock absorber for straight bar knitting machine. 3,050,969, 8–28–62, Cl. 66—130.
McCarthy, Paul R.: *See*—
Halter, Robert E., McCarthy, and McGrath. 3,042,614.
McCarthy, Paul R., to Gulf Research & Development Co. Alkali metal soap thickened greases containing alkali metal salts of phenol-aldehyde condensates. 3,052,631, 9–4–62, Cl. 252—42.1.
McCarthy, Robert J. Rechargeable electric batteries. 3,028,535, 4–3–62, Cl. 320—2.
McCarthy, Thomas W.: *See*—
Papisarow, Lillian E. 3,068,874.
McCarthy, William, to Speer Carbon Co., Inc. Capacitor. 3,047,782, 7–31–62, Cl. 317—258.
McCartney, Daniel E., and J. Hoekstra, to Universal Oil Products Co. Alumina sol manufacture. 3,020,242, 2–6–62, Cl. 252—442.
McCartney, John R.: *See*—
Parrish, Esperanza. 3,062,702.
McCartney, Robert E., to Arel, Inc. Means for coupling light meters to cameras. 3,063,353, 11–13–62, Cl. 95—10.
McCarty, Clifford E., and W. D. Holak, to Scott Paper Co. Economic distribution computer. 3,017,104, 1–16–62, Cl. 235—185.
McCarty, George W., to The Black and Decker Mfg. Co. Offset blades for reciprocating saw. 3,028,889, 4–10–62, Cl. 143—133.
McCarty, George W., and A. C. Stanley, to The Black and Decker Mfg. Co. Anti-splintering resiliently-retained insert for shoe of jig saw. 3,045,725, 7–24–62, Cl. 143—68.
McCarty, Horace G., and J. K. Hale, to Sperry Rand Corp. Side delivery rake. 3,036,420, 5–29–62, Cl. 56—377.
McCarty, Horace G., and C. A. Smith, to Sperry Rand Corp. Side delivery rake. 3,040,509, 6–26–62, Cl. 56—377.
McCarty, Lee A., to H. S. Watson Co. Load handling apparatus having optimum efficiency. 3,048,367, 8–7–62, Cl. 254—124.
McCarty, Lee A., and A. S. Rossoni, to H. S. Watson Co. Load lifting structure. 3,035,721, 5–22–62, Cl. 214—77.
McCarty, Lewis C., Jr., ⅛ to B. Shaw. Rotary wing aircraft. 3,065,799, 11–27–62, Cl. 170—160.11.
McCarty, Lourdes V., and F. W. Schwarz, to Controls Co. of America. Rotary magnetic force welder. 3,057,990, 10–9–62, Cl. 219—86.
McCarty, Lourdes V., and B. H. Michael, to Controls Co. of America. Arc discharge tubes or switches. 3,059,136, 10–16–62, Cl. 313—165.
McCarty, Shile D.: *See*—
Hiser, Wilbert F., and McCarty. 3,032,125.
McCarty, Theodore M.: *See*—
Lover, Seth E., and McCarty. 3,069,954.
McCarty, Warren K., Jr.: *See*—
Saur, Albert J., McCarty, and Johnson. 3,031,393.
McCarvell, John H., and W. C. Carlisle. Revolving gauge connection. 3,041,880, 7–3–62, Cl. 73—420.
McCaskill, Donald A. Corner bead installation device. 3,015,890, 1–9–62, Cl. 33—85.
McCaslin, Donald A., to General Motors Corp. Ball and socket connection. 3,020,101, 2–6–62, Cl. 308—72.
McCathron, Claude B., M. R. Rowe, and H. C. Zeisloft, to General Motors Corp. Motor vehicle speed control mechanism. 3,062,310, 11–6–62, Cl. 180—82.1.
McCaul, Verne J. Golf putting target. 3,048,405, 8–7–62, Cl. 273—177.
McCauley Industrial Corp.: *See*—
Burnham, Walter E. 3,053,267.
McCauley, Joe A.: *See*—
Foshee, Clarence B., and McCauley. 3,020,694.
McCauley, John H., to Burroughs Corp. Indicator tube. 3,047,355, 12–4–62, Cl. 313—210.
McCauley, John H., and S. Gavurnik, to Burroughs Corp. Indicator tube. 3,042,826, 7–3–62, Cl. 313—109.5.
McCauley, Porter T. Transistorized modulator-demodulator. 3,044,025, 7–10–62, Cl. 332—52.
McCauliff, Francis W. Coating head dike. 3,032,007, 5–1–62, Cl. 118—407.
McCausland, John W., and L. C. Hardison, to Universal Oil Products Co. Distributing valve and fluid-solid contacting apparatus utilizing same. 3,067,774, 12–11–62, Cl. 137—624.13.
McCausland, Robert J., to Southwestern Engineering Co. Shaking apparatus. 3,035,700, 5–22–62, Cl. 209—405.
McClaflin, Clifford G.: *See*—
Atwood, Mark T., and McClaflin. 3,069,450.
McClain, Harry W. Carburetor of the pressure type. 3,015,548, 1–2–62, Cl. 48—180.
McClaine, Buddy R. Hairbrush. 3,039,131, 6–19–62, Cl. 15—507.

McCleary, Charles D.: *See*—
Marous, Leonard F. and McCleary. 3,022,282.
McCleary, Eugene J., Jr., and C. H. Heigl, to Adams Corp., Korn Kurls Division. Food machinery. 3,018,715, 1–30–62, Cl. 99—238.
McCleary, Lorin D. Propulsion machine. 3,048,326, 8–7–62, Cl. 230—150.
McClellan, Cyril E., and L. W. Rustad, to Westinghouse Electric Corp. Parabolic feed system. 3,045,239, 7–17–62, Cl. 343—776.
McClellan, John F. Mechanical shutter of large aperture and high speed. 3,024,700, 3–13–62, Cl. 88—61.
McClellan, Marcus E., to Deere & Co. Cutterhead for agricultural machines and the like. 3,059,384, 10–23–62, Cl. 51—250.
McClelland, Harold M., to United States of America, Navy. Synchronized sonar trainer. 3,040,445, 6–26–62, Cl. 35—10.4.
McClelland, James F., Jr., to Admos, Inc. Construction of article supporting chutes. 3,064,783, 11–20–62, Cl. 193—38.
McClintock, Burt: *See*—
Chick, Melvin E. 3,041,795.
McClintock, Howard W., Sr. Face guards for batters' helmets. 3,067,427, 12–11–62, Cl. 2—9.
McClintock, Ross A.: *See*—
Gibson, Wilfred C., McClintock, and Miller. 3,035,640.
Waggener, Kenneth E. 3,061,336.
McClintock, Ross A., to Shaffer Tool Works. Well drilling equipment. 3,023,809, 3–6–62, Cl. 166—84.
McClintock, Ross A., R. E. Thompson, and K. E. Waggener. Quick release safety tool joint and connection. 3,056,614, 10–2–62, Cl. 285—39.
McClintock, Sherman E., ½ to P. J. Stine. Drive-in service machine. 3,036,660, 5–29–62, Cl. 186—1.
McClinton, John. Device for recovering pipe from wells. 3,051,254, 8–28–62, Cl. 175—257.
McClinton, John L., to The Burns & Russell Co. of Baltimore City. Filled polyester resin having a coating of epoxy resin and method of manufacturing the same. 3,030,234, 4–17–62, Cl. 117—138.8.
McClive, Ralph T., to Eastern Fabricating Co., Inc. Corner pad. 3,063,613, 11–13–62, Cl. 229—14.
McCloskey, Allen L.: *See*—
English, William D., McCloskey, and Steinberg. 3,028,-368.
English, William D., Steinberg, and McCloskey. 3,068,-152.
McCloskey, Allen L., to United States Borax & Chemical Corp. Preparation of organic boric anhydrides. 3,033,892, 5–8–62, Cl. 260—462.
McCloskey, Allen L., to United States Borax & Chemical Corp. Preparation of benzene boronic esters. 3,062,859, 11–6–62, Cl. 260—462.
McCloskey, Allen L., D. S. Taylor, and H. Steinberg, to United States Borax & Chemical Corp. Separation of methyl borate-methanol azeotrope. 3,044,943, 7–17–62, Cl. 202—39.5.
McCloskey, Allen L., W. D. English, and H. Goldsmith, to United States Borax & Chemical Corp. Boron-nitrogen polymers. 3,052,641, 9–4–62, Cl. 260—2.
McCloskey, Allen L., R. J. Brotherton, and L. L. Petterson, to United States Borax & Chemical Corp. Method for making organoboron compounds. 3,062,823, 11–6–62, Cl. 260—289.
McCloskey, Chester M. Polymerization activator. 3,015,631, 1–2–62, Cl. 252—426.
McCloskey, Florence T. Colostomy belts. 3,049,123, 8–14–62, Cl. 128—283.
McClosky, Robert B.: *See*—
Frank, Carl A., McClosky, and Lynch. 3,015,922.
McCloud, George R., to McGraw-Edison Co. Fuse cutout. 3,048,680, 8–7–62, Cl. 200—114.
McCloud, George R., and H. V. Dryer, to McGraw-Edison Co. Portable load break tool. 3,032,630, 5–1–62, Cl. 200—114.
McCloy, Clark R. Automotive speed control means. 3,022,-777, 2–27–62, Cl. 123—118.
McCloy, Graham S., to Westinghouse Electric Corp. Motor compressor unit with reduced noise transmission. 3,066,-857, 12–4–62, Cl. 230—232.
McCluer, John D., to H. K. Porter Co., Inc. Flame retardant vapor barrier fabric and method for producing the same. 3,062,678, 11–6–62, Cl. 117—76.
McCluer, Kenneth L., and W. D. Sharp, to Hoyes Industries, Inc. Reinforced beam structure. 3,025,021, 3–13–62, Cl. 242—118.4.
McClure, Arthur W., to The Trane Co. Centrifugal compressor. 3,040,972, 6–26–62, Cl. 230—132.
McClure, Carroll D., to Socony Mobil Oil Co., Inc. Repetitive seismic wave source. 3,064,753, 11–20–62, Cl. 181—.5.
McClure, Charles A.: *See*—
Gilbert, Alfred G. 3,057,476.
McClure, Charles M.: *See*—
Bentele, Gerard O., and McClure. 3,048,514.
McClure, Earl F., to The Goodyear Tire & Rubber Co. Method of shaping foamed rubber latex. 3,015,854, 1–9–62, Cl. 18—53.
McClure, Elnora A. T. Swimming pool. 3,052,893, 9–11–62, Cl. 4—172.
McClure, Glenn T.: *See*—
Hursen, Thomas F., and McClure. 3,017,960.
McClure, Jessie O. Flounder gig. 3,015,180, 1–2–62, Cl. 43—6.
McClure, Leland B.: *See*—
Fay, Wayne, and McClure. 3,026,212.
McClure, Ralph C.: *See*—
Summers, Virgil H., McClure, and Kuntze. 3,018,116.
McClure, Thomas V., and J. McNutt, to James Lees, and Sons Co. Yarn feeding and storage apparatus. 3,064,328, 11–20–62, Cl. 28—21.
McClure, William L.: *See*—
Larsen, Lawrence W., and McClure. 3,050,343.
McCluskey, William A. Soil feeder. 3,040,680, 6–26–62, Cl. 111—7.4.
McClusky, Lonnie N.: *See*—
McKnight, William B., McClusky, and Widenhofer. 3,020,414.
McClusky, Lonnie N., W. B. McKnight, and N. J. Mangus, Jr., to United States of America, Army. Rotary radiation discriminator. 3,023,661, 3–6–62, Cl. 88—1.
McCoig, John A., Sr.: *See*—
Tager, Milton E., Browne, and McCoig. 3,044,145.
McColl, Allan C., to The Wheland Co. Saw mill carriage. 3,056,438, 10–2–62, Cl. 143—118.
McCollor, Robert L.: *See*—
Roda, Donald L., and McCollor. 3,015,818.
McCollough, Fred, Jr., to Stauffer Chemical Co. Production of polymeric phosphorus pentoxide. 3,034,860, 5–15–62, Cl. 23—165.
McCollough, William U. Valve for hoppers and the like. 3,040,939, 6–26–62, Cl. 222—503.
McCollum, David W. Method and apparatus for sterilizing and applying elastic gloves to the human hand. 3,067,001, 12–4–62, Cl. 21—2.
McCollum, Jack W., to Deere & Co. Beet harvesting lifting wheel adjustment. 3,070,175, 12–25–62, Cl. 171—58.
McCollum, Rolland G.: *See*—
Evans, Ralph A., Stephanoff, and McCollum. 3,066,547.
McCollum, Sterling A., to United States of America, Navy. Pilot igniter for burners. 3,022,630, 2–27–62, Cl. 60—39.82.
McCollum, William A., Jr.: *See*—
Darnell, Alfred J., McCollum, and Meechan. 3,068,093.
McColm, Eugene M.: *See*—
Jonson, Carl A., McColm, and Ferrell. 3,062,044.
McComb, Berton J., to Thompson Ramo Wooldridge Inc. Governor. 3,029,398, 4–10–62, Cl. 331—113.
McComb, Clarence L., 50% to H. O. Bender. Worm-locking means for a slidable jaw wrench. 3,022,689, 2–27–62, Cl. 81—165.
McCombs, Howard L., M. P. Fedroci, and C. D. Hawk, to The Bendix Corp. Two stage pneumatic servo control. 3,040,715, 6–26–62, Cl. 121—41.
McCombs, Howard L., Jr.: *See*—
Haase, Elmer A., Nobles, Schnaible, and McCombs. 3,023,575.
McCombs, Howard L., Jr., to The Bendix Corp. Flow divider. 3,015,338, 1–2–62, Cl. 137—100.
McConkey, Hilda M.: *See*—
Langis, Andre L., and McConkey. 3,055,937.
McConkie, Howard S. Means for expanding the beads of tubeless tires on wheel rims. 3,024,831, 3–13–62, Cl. 152—415.
McConkie, Howard S. Combination tubeless tire and tube. 3,038,516, 6–12–62, Cl. 152—349.
McConkie, Howard S. Tubeless tire with inner tube at least partially floating therein. 3,038,517, 6–12–62, Cl. 152—349.
McConnaughay, Kenneth E. Method of paving. 3,025,773, 3–20–62, Cl. 94—23.
McConnel, Richard L., and H. W. Coover, Jr., to Eastman Kodak Co. O,O-diethyl S-(1-hydroxyethyl) phosphorothiolothionate as an insecticide. 3,057,773, 10–9–62, Cl. 167—2.
McConnell, Albert L., and S. W. Morse, Jr., to Scott Paper Co. Protective wrapping materials. 3,070,462, 12–25–62, Cl. 117—138.8.
McConnell, Jack B., H. E. Zangenberg, and M. S. Cooper, to American Cyanamid Co. Intracutaneous injection device. 3,034,507, 5–15–62, Cl. 128—253.
McConnell, John E. W., and C. P. Collier. Method of sterilization. 3,042,533, 7–3–62, Cl. 99—182.
McConnell, John H., to Electro-Sonic Laboratories, Inc. Electromagnetic phonograph pickups. 3,043,920, 7–10–62, Cl. 179—100.41.
McConnell, Kenneth R., to Litton Systems, Inc. Transmission level limit and contrast control for facsimile systems and the like. 3,018,331, 1–23–62, Cl. 178—7.1.
McConnell, Lloyd W. Cargo mover. 3,037,650, 6–5–62, Cl. 214—506.
McConnell, Richard L.: *See*—
Coover, Harry W., Jr., and McConnell. 3,053,795.
Coover, Harry W., Jr., and McConnell. 3,053,852.
McConnell, Richard L., and H. W. Coover, Jr., to Eastman Kodak Co. Polymers derived from aminoalcohols and phosphites or phosphonites. 3,030,340, 4–17–62, Cl. 260—77.5.
McConnell, Richard L., and H. W. Coover, Jr., to Eastman Kodak Co. New organophosphorus compounds derived from bis(halomethyl)oxetanes and thietanes. 3,041,350, 6–26–62, Cl. 260—327.
McConnell, Richard L., and H. W. Coover, Jr., to Eastman Kodak Co. Polymers derived from lactones and cyclic phosphites. 3,062,788, 11–6–62, Cl. 260—78.3.
McConnell, Richard L., and H. W. Coover, Jr., to Eastman Kodak Co. Polymers derived from tetraalkyl vinylidene-diphosphonates. 3,062,792, 11–6–62, Cl. 260—85.5.

McConnell, Robert S., to The Desmond-Stephan Mfg. Co. Grinding wheel dressers. 3,039,451, 6–19–62, Cl. 125—37.
McConnell, Thomas A.: *See*—
Shuttleworth, Cornelius J., and McConnell. 3,015,228.
McConnell, Wayne V., and H. E. Davis, to Eastman Kodak Co. Isobutyraldehyde condensation product. 3,038,907, 6–12–62, Cl. 260—340.7.
McConnell, William C., to Pittsburgh Plate Glass Co. Novel potato package. 3,047,403, 7–31–62, Cl. 99—154.
McConnell, William M., to Taylor-Wilson Mfg. Co. Apparatus for doubling capacity of a pipe tester. 3,023,608, 3–6–62, Cl. 73—49.6.
McConnell, William M., to Taylor Wilson Mfg. Co. Means and method for expanding and testing pipe. 3,030,901, 4–24–62, Cl. 113—44.
McConnell, William M., to Taylor-Wilson Mfg. Co. Plug screw-on apparatus for pipe testers. 3,035,336, 5–22–62, Cl. 29—240.
McConnell, William M., and R. L. Carey, to Taylor-Wilson Mfg. Co. Dual pipe tester. 3,033,025, 5–8–62, Cl. 73—49.6.
McConnell, William M., W. H. Bradley, R. L. Carey, H. E. Chappell, to Taylor-Wilson Mfg. Co. Elongated article handling apparatus. 3,039,584, 6–19–62, Cl. 198—19.
McConville, Thomas P., to South Coast Fisheries, Inc. Process of preparing fish for canning. 3,024,114, 3–6–62, Cl. 99—111.
McConville, Thomas W.: *See*—
Saitta, Vincent F., and McConville. 3,018,776.
McCool, Marcus G., to American Iron & Machine Works Co., Inc. Integral tool joint drill pipe. 3,067,593, 12–11–62, Cl. 64—1.
McCool, Myrtle: *See*—
Cutler, Hall W. 3,028,858.
McCool, Raymond N. Railroad rolling stock bearing temperature monitor. 3,059,107, 10–16–62, Cl. 246—169.
McCord, Andrew T., and D. R. Spink, to United States of America, Atomic Energy Commission. Method of purifying zirconium chlorides. 3,032,388, 5–1–62, Cl. 23—23.
McCord Corp.: *See*—
Gobb, Arthur F. 3,029,084.
McCord, Edgar R.: *See*—
McCord, Miles E, and E. R. 3,055,023.
McCord, Georgie P., to United States Rubber Co. Valve. 3,022,091, 5–1–62, Cl. 152—427.
McCord, Jesse L. Device for lubricating and preventing vibration and lost motion in the lower ball joint suspension of an automobile. 3,055,676, 9–25–62, Cl. 280—96.2.
McCord, Jones, to Riedell Shoes, Inc. Shoe sole construction. 3,027,661, 4–3–62, Cl. 36—30.
McCord, Miles E. and E. R. Boat bow. 3,055,023, 9–25–62, Cl. 9—1.
McCordic, James R., to Chrysler Corp. Tunnel mounted gearshift. 3,022,678, 2–27–62, Cl. 74—473.
McCordic, James R., to Chrysler Corp. Transmission gear selector mechanism. 3,049,025, 8–14–62, Cl. 74—484.
McCorquodale Colour Display Ltd.: *See*—
Beale, Evelyn S. L., and Sanderson. 3,056,384.
McCorkel, Franklin M., and V. R. Healy, to Aggregates Equipment, Inc. Screening device. 3,070,231, 12–25–62, Cl. 209—319.
McCorkle, Kenneth H., A. T. Kleinsteuber, C. E. Schilling, and O. C. Dean, to United States of America, Atomic Energy Commission. Preparation of high-density, compactible thorium oxide particles. 3,035,895, 5–22–62, Cl. 23—14.5.
McCorkle, Willard H., and H. S. Cern, to United States of America, Atomic Energy Commission. Biological irradiation facility. 3,031,394, 4–24–62, Cl. 204—193.2.
McCormack, Alex A. Compressor unit for refrigeration system. 3,031,861, 5–1–62, Cl. 62—196.
McCormack, Alex A., to Thompson Ramo Wooldridge Inc. Liquid nitrogen pump. 3,070,022, 12–25–62, Cl. 103—50.
McCormack, John: *See*—
Schneble, Frederick W., Jr., McCormack, and Zeblisky. 3,033,703.
McCormack, Mark E. Portable, collapsible, multiple lavatory. 3,069,694, 12–25–62, Cl. 4—166.
McCormack, Webster J.: *See*—
Fisch, Jacob, McCormack, and Smyser. 3,051,186.
Whippen, Warren G., McCormack, and Breda. 3,026,085.
McCormack, William B.: *See*—
Brace, Neal O., and McCormack. 3,047,610.
McCormick, Barnes W., J. J. Eisenhuth, and G. F. Wislicenus, to United States of America, Navy. Torpedo propulsion and control. 3,050,024, 8–21–62, Cl. 114—20.
McCormick, Clarence E., to Lee Rubber & Tire Corp., d.b.a. Republic Rubber Division. Method of winding wire reinforcing members on a resilient tube. 3,020,701, 2–13–62, Cl. 57—160.
McCormick, Clarence E., to Lee Rubber & Tire Corp. d.b.a. Republic Rubber Division. Device for spacing the convolutions of a coiled wire. 3,043,585, 7–10–62, Cl. 269—22.
McCormick, Edward D.: *See*—
Lees, Gale W., and McCormick. 3,035,996.
McCormick, Francis H.: *See*—
Barbulesco, Daniel J., McCormick, and Spires. 3,018,649.
Jacobs, James W., and McCormick. 3,070,417.
McCormick, Gordon A., and E. R. Dennerline. Vehicle wheel dolly. 3,036,723, 5–29–62, Cl. 214—331.
McCormick, Gordon R., to E. I. du Pont de Nemours and Co. Spinneret pack assembly. 3,028,627, 4–10–62, Cl. 18—8.
McCormick, Hamilton L., to General Motors Corp. Method of making hollow castings. 3,029,485, 4–17–62, Cl. 22—160.
McCormick, Herbert W., and R. E. Friedrich, to The Dow Chemical Co. Process for making polymeric α-methyl styrene having a narrow molecular weight distribution. 3,069,405, 12–18–62, Cl. 260—93.5.
McCormick, Jerry R. D.: *See*—
Miller, Philip A., and McCormick. 3,023,148.
Miller, Philip A., and McCormick. 3,053,740.
McCormick, Jerry R. D., and E. R. Jensen, to American Cyanamid Co. Process for the catalytic reduction of 6-hydroxy hydronaphthacenes. 3,019,260, 1–30–62, Cl. 260—559.
McCormick, Jerry R D., N. O. Sjolander, U. Hirsch, and J. Reichenthal, to American Cyanamid Co. 6-amino-5-hydroxy-1,2-cyclohexadiene-1-carboxylic acid. 3,038,005, 6–5–62, Cl. 260—514.
McCormick, Jerry R. D., N. O. Sjolander, U. Hirsch, and J. Reichenthal, to American Cyanamid Co. Method of preparing 6-amino-5-hydroxy-1,3-cyclohexadiene-1-carboxylic acid. 3,069,326, 12–18–62, Cl. 195—36.
McCormick, John M.: *See*—
Hackett, James W., Henry, and McCormick. 3,030,536.
McCormick, Mack H., and J. M. McGuire, to Eli Lilly and Co. Vancomycin and method for its preparation. 3,067,099, 12–4–62, Cl. 167—65.
McCormick, Nelle B., and N. W. Barmeier, to St. Helens Wood Products Co. Handle coupling. 3,034,815, 5–15–62, Cl. 287—104.
McCormick, Rayna H., to J-Dapter Co. Reciprocable-drive mechanism. 3,062,008, 11–6–62, Cl. 60—52.
McCormick, Rembe: *See*—
Glick, Edward G. 3,028,939.
McCormick, Robert H.: *See*—
Fenske, Merrell R., McCormick, and Lawroski. 3,050,448.
McCorquodale Colour Display Ltd.: *See*—
Beale, Evelyn S. L. 3,021,816.
Beale, Evelyn S. L. 3,045,711.
Nash, James G. 3,018,724.
McCoubrey, Arthur O., to National Co., Inc. Temperature compensated microwave cavity. 3,034,078, 5–8–62, Cl. 333—83.
McCoubrey, Arthur O., J. H. Holloway, W. A. Mainberger, and H. D. Guy, to National Co., Inc. Molecular beam frequency standard incorporating control of static field. 3,060,384, 10–23–62, Cl. 331—3.
McCouch, Gordon P., to Aircraft Radio Corp. Detent mechanism. 3,046,810, 7–31–62, Cl. 74—527.
McCoy, Arthur J. Electromagnetic speed control coupling. 3,025,420, 3–13–62, Cl. 310—103.
McCowen, Harvey H.: *See*—
Moose, Joe D., and McCowen. 3,062,464.
McCown, Claude A. Hydraulic balance damper. 3,027,955, 4–3–62, Cl. 177—184.
McCown, Edward E., and J. W. McAuley, to Libbey-Owens-Ford Glass Co. Method of cleaning surfaces. 3,022,202, 2–20–62, Cl. 134—1.
McCown, William E., and D. A. Guerdan, to Westinghouse Electric Corp. Magnetic coupling. 3,051,858, 8–28–62, Cl. 310—93.
McCoy, David O., and I. Luik, to Collins Radio Co. Time enabled beam sensing and logic circuitry for horizontal aircraft guidance. 3,030,621, 4–17–62, Cl. 343—107.
McCoy, James R., and T. J. Umphres, said Umphres assor, to said McCoy. Insect exterminating device. 3,043,046, 7–10–62, Cl. 43—113.
McCoy, John H., and W. H. Greenberg, to Riverside Plastics Corp. Self-damping material and sonar dome formed therefrom. 3,038,551, 6–12–62, Cl. 181—.5.
McCoy, Lawrence B. Pallet packer. 3,027,020, 3–27–62, Cl. 214—6.
McCoy, Rawley D., and H. F. Meissinger, to Reeves Instrument Corp. Electronic computing method and apparatus. 3,031,143, 4–24–62, Cl. 235—194.
McCoy, Robert E.: *See*—
Bedwith, Howard W., and McCoy. 3,063,311.
McCoy, Robert E., to General Electric Co. Signal conversion system. 3,066,285, 11–27–62, Cl. 340—347.
McCoy, Thomas A., to Carando Machine Works. Drum body seam rolling machine. 3,025,816, 3–20–62, Cl. 113—60.
McCoy, Val J.: *See*—
Johnson, Jarl A. 3,042,749.
McCoy, Vinton R. Portable multi-purpose mixing apparatus. 3,062,522, 11–6–62, Cl. 263—25.
McCracken, James W. Load handling system. 3,050,206, 8–21–62 Cl. 214—620.
McCracken, Ogden L. Jet cable tool drill. 3,036,647, 5–29–62, Cl. 175—418.
McCraigh, Justin F.: *See*—
Drake, John M., Watson, Patterson, and McCraigh. 3,066,252.
McCrary, Roy A.: *See*—
La Karnafeaux, John P., and McCrary. 3,070,189.
McCray Refrigerator Co., Inc.: *See*—
Mathis, Glenn W., and Burger. 3,044,274.
McCrea, Joseph, to Stapling Machines Co. Wirebound container end construction. 3,051,344, 8–28–62, Cl. 217—14.
McCready, Raymond G.: *See*—
Gertels, Karl M., and McCready. 3,024,619.
McCreanor, Richard A., and R. L. Uphoff, to Jones & Laughlin Steel Corp. Method for identifying defects in welded tubing. 3,018,656, 1–30–62, Cl. 73—37.

McCreanor, Richard A., R. L. Uphoff, J. F. Laycak, and R. S. Libenschek, to Jones & Laughlin Steel Corp. Inspection and control system. 3,020,033, 2–6–62, Cl. 266—23.

McCreary, Harold J., to Automatic Electric Laboratories, Inc. Magnetostrictive transducer. 3,033,944, 5–8–62, Cl. 179—110.

McCreary, Harold J., to Automatic Electric Laboratories, Inc. Magnetic saturation control devices. 3,060,412, 10–23–62, Cl. 340—174.

McCreary, James T., O. Van Zant, and R. E. Weber, Sr., to O. Van Zant. Bite signaling device. 3,064,244, 11–13–62, Cl. 340—213.

McCreary, John. Fluid flow control device for tenter machines utilizing super-heated steam. 3,015,893, 1–9–62, Cl. 34—158.

McCreary, John. High speed tenter chain device. 3,050,816, 8–28–62, Cl. 26—61.

McCreary, Ralph L., to Collins Radio Co. Inflatable antenna. 3,056,131, 9–25–62, Cl. 343—781.

McCreight, Donald O., and R. E. Birch, to Harbison-Walker Refractories Co. Coke oven furnaces and silica shapes therefor. 3,024,122, 3–6–62, Cl. 106—58.

McCrory, Rollin J., R. W. King, and R. M. Conklin, to The Battelle Development Corp. Fuel injector. 3,042,010, 7–3–62, Cl. 123—32.

McCrory, Rollin J., and R. W. King, to The Battelle Development Corp. Starting device. 3,044,452, 7–17–62, Cl. 123—7.

McCrory, Rollin J., A. W. Carey, Jr., and J. H. McNinch, Jr., to The Battelle Development Corp. Crankless motion mechanism. 3,069,913, 12–25–62, Cl. 74—60.

McCrossen, William G. Double line derricks. 3,066,804, 12–4–62, Cl. 212—55.

McCubbins, James T., Jr., to Western Electric Co., Inc. Forming apparatus. 3,060,509, 10–30–62, Cl. 18—42.

McCulley, Dale, to Cavalcade Productions, Inc. Means of staging productions. 3,035,836, 5–22–62, Cl. 272—10.

McCulley, John W., ½ to S. Kurtz. Lawn edger. 3,029,878, 4–17–62, Cl. 172—13.

McCulloch Corp.: *See*—
Beach, David D. 3,052,896.
Hazzard, Harry I. 3,055,238.
Oehrli, John W. 3,044,506.
Raleigh, Walter J. 3,062,930.
Robinson, Kenneth L, and Bandli. 3,053,489.
Tyrrell, Vincent C. 3,055,115.

McCulloch Corp., Marine Products Division: *See*—
Beach, David D. 3,051,967.
Burkett, Wilford B. 3,020,777.
Burkett, Wilford B. 3,033,185.
Foster, Leslie W. 3,025,824.
Millar, Gordon H. 3,025,676.
Snyder, Merton F., and Foster. 3,018,754.

McCulloch Corp., Scott Division: *See*—
Anderson, Glenn R., and Klancke. 3,016,869.

McCulloch, Donald J., and R. F. E. Stegeman, to Bausch & Lomb Inc. Metallic spectacle frame supporting integral plastic lens rims and nose pads. 3,060,803, 10–30–62, Cl. 88—47.

McCulloch Motor Corp.: *See*—
Wilkin, Ellsworth D. 3,040,504.

McCullogh, Robert: *See*—
Batezell, Alfred P., and McCullogh. 3,015,994.

McCullough, Douglas G.: *See*—
Lottridge, Neil M., Jr., and McCullough. 3,022,163.

McCullough, Hugh S., Jr.: *See*—
Hall, Jewell M., and McCullough. 3,027,117.

McCullough, I. J.: *See*—
MacLeod, Norman A. 3,041,228.
MacLeod, Norman A. 3,041,456.

McCullough, James D., to The Babcock & Wilcox Co. Interlocking ceramic tile elements. 3,055,651, 9–25–62, Cl. 263—6.

McCullough, Jane F. Improved packaging material as an article of manufacture. 3,042,278, 7–3–62, Cl. 225—39.

McCullough, Otis I.: *See*—
Davis, James E., Roos, and McCullough. 3,017,946.

McCullough, Otis J. Well perforating device. 3,040,659, 6–26–62, Cl. 102—20.

McCullough, Stuart. Position control servosystem and the like. 3,039,031, 6–12–62, Cl. 318—29.

McCullough, Thomas H. Toilet flush valve guide. 3,030,635, 4–24–62, Cl. 4—57

McCullough, William R.: *See*—
England, Richard E., and McCullough. 3,017,484.

McCune, Harry E., III, and R. A. Lula, to Allegheny Ludlum Steel Corp. Method of cladding molybdenum. 3,035,338, 5–22–62, Cl. 29—471.5.

McCurdy, Gordon W., to Hercules Powder Co. Method and apparatus for manufacture of cast plastic compositions. 3,027,597, 4–3–62, Cl. 18—26.

McCurdy, Richard M.: *See*—
Prager, Julianne H., and McCurdy. 3,031,436.

McCurdy, Robert J., and L. A. Matonak, to United States of America, Navy. Sequentially gated plural channel input to single channel output system having feedback means for eliminating pedestal. 3,052,849, 9–4–62, Cl. 328—97.

McCutchan, Winfred N., and P. H. Hidy, to Commercial Solvents Corp. Glutamic acid fermentation. 3,061,521, 10–30–62, Cl. 195—47.

McCutchen, Charles W.: *See*—
Dean, Lloyd G., McCutchen, and Doumas. 3,024,091.
Osborn, Oliver, McCutchen, and Hradel. 3,053,710.

McDaniel, Billy B., and C. N. Kracht, to Union Carbide Corp. Thermoplastic film lavatory. 3,058,122, 10–16–62, Cl. 4—177.

McDaniel, Cecil G. Cutting and cleaning tool. 3,023,655, 3–6–62, Cl. 82—4.

McDaniel, Rurie N., and C. M. Wilkerson. Sand blasting apparatus. 3,034,263, 5–15–62, Cl. 51—12.

McDaniels, John D., Jr., to The Babcock & Wilcox Co. Storage arrangement. 3,037,120, 5–29–62, Cl. 250—108.

McDavitt, Murray: *See*—
Lusher, Kenneth G., McDavitt, and Vincent. 3,026,575.

McDermid, William L., H. E. Petersen, and G. L. Shelton, Jr., to International Business Machines Corp. Function generators. 3,036,775, 5–29–62, Cl. 235—165.

McDermott, Harold R., to Construction Machinery Co. Drum for truck mounted concrete mixers. 3,038,705, 6–12–62, Cl. 259—175.

McDermott, Hugh L., to Buckbee-Mears Co. Abrading devices and method of making them. 3,045,321, 7–24–62, Cl. 29—78.

McDermott, John J., and A. Bodnar. Check valve. 3,058,486, 10–16–62, Cl. 137—515.5.

McDevitt, James A.: *See*—
Bell, Raymond M., Gooding, Wellman, and McDevitt. 3,045,560.

McDevitt, James A., and B. C. Miller, to Continental Can Co., Inc. Plastic film tube former. 3,042,103, 7–3–62, Cl. 156—466.

McDonald, Archibald: *See*—
Rudd, James, and McDonald. 3,028,062.

McDonald, Bessie. Confection. 3,062,662, 11–6–62, Cl. 99—138.

McDonald, Charles C., to E. I. du Pont de Nemours and Co. Production of direct positive images and light sensitive element therefor. 3,050,758, 9–25–62, Cl. 96—48.

McDonald, Clarence E., to United States of America, Agriculture. Food products containing deamidized gliadin. 3,030,211, 4–17–62, Cl. 99—14.

McDonald, Clement J., to Multi Electric Mfg. Inc. Airport runway light. 3,066,217, 11–27–62, Cl. 240—1.2.

McDonald Co., The: *See*—
McDonald, Gerald C. 3,038,709.

McDonald, David C. Hinge. 3,049,747, 8–21–62, Cl. 16—135.

McDonald, Earl D., Jr.: *See*—
Bickel, Richard L., Brooke, Day, McDonald, Millis, and Nygaard. 3,039,604.

McDonald, Frank A. Bellows-type expansion compensator with spring-controlled tubular braided shroud. 3,044,805, 7–17–62, Cl. 285—45.

McDonald, Fred S.: *See*—
Boaux, Joseph R., and McDonald. 3,019,094.

McDonald, Gerald C., to The McDonald Co. Steam condensers. 3,038,709, 6–12–62, Cl. 261—116.

McDonald, Harry S.: *See*—
Malik, Joseph M. and F. A., and McDonald. 3,016,238.
Malik, Joseph M. and F. A., and McDonald. 3,028,998.

McDonald, Henry C., Jr., to United States of America, Atomic Energy Commission. Pulse rate divider. 3,069,628, 12–18–62, Cl. 328—52.

McDonald, James A., and H. H. Evans, to Commercial Cam & Machine Co. Indexing cam structure. 3,049,017, 8–14–62, Cl. 74—84.

McDonald, John W.: *See*—
Etheridge, Oliver R., Wagoner, McDonald, and Lippincott. 3,067,067.

McDonald, Raymore D., to Ulmac Equipment Co. Roadway machine. 3,049,817, 8–21–62, Cl. 37—108.

McDonald, Robert L., to Wilmot Castle Co. Method of sterilizing. 3,068,064, 12–11–62, Cl. 21—58.

McDonald, William J.: *See*—
Bousquet, John A., McDonald, and Voigt. 3,031,356.

McDonald, William S.: *See*—
Pilkington, William C., Jr., McDonald, and Wells. 3,030,049.

McDonell, Gordon H.: *See*—
Esson, Roger L., and McDonell. 3,037,869.

McDonnell Aircraft Corp.: *See*—
Burton, John R., and Mackin. 3,028,807.
Tedeschi, Anthony, and Keating. 3,026,423.

McDonnell, Joseph F., Jr.: *See*—
Anderson, David W., and McDonnell. 3,061,512.

McDonnell, Lester T. Light-weight heavy duty conveyor carrier cage. 3,017,037, 1–16–62, Cl. 211—114.

McDonnell & Miller, Inc.: *See*—
Kmiecik, Leopold J., and Kaczmarek. 3,049,145.
Kmiecik, Leopold J., and Stonich. 3,064,095.

McDonnell, Ralph R. Coin-controlled locking mechanisms. 3,028,941, 4–10–62, Cl. 194—78.

McDonnold, Le Roy: *See*—
Pearce, George C., and McDonnold. 3,032,028.
Pearce, George C., McDonnold, and Miller. 3,051,817.

McDonnold, Le Roy, to General Motors Corp. Oven door mounting means. 3,045,663, 7–24–62, Cl. 126—190.

McDonough, Cletus G., to General Time Corp. Trip speed averager. 3,036,762, 5–29–62, Cl. 235—61.

McDonough Co.: *See*—
Chadwick, Earl L. 3,047,999.

McDonough, James O.: *See*—
Forrester, Jay W., Pease, McDonough, and Susskind. 3,069,608.
Morin, John O., McDonough, and Grossimon. 3,020,460.
McDonough, John J., to Scott & Williams, Inc. Method and machine for knitting stockings. 3,034,324, 5–15–62, Cl. 66—42.
McDonough, John P.: *See*—
Hegge, Edward N., and McDonough. 3,059,578.
McDonough, Paul F. Overhead connecting track with control. 3,039,403, 6–19–62, Cl. 104—178.
McDonough, Vincent T., to American District Telegraph Co. Photoelectric burglar alarm system. 3,025,506, 3–13–62, Cl. 340—276.
McDorman, Emilou, ½ to B. Olcott. Open toe footwear with tieable vamp. 3,037,302, 6–5–62, Cl. 36—11.5.
McDougal, John A.: *See*—
Carlson, Ronald F., Hockenberger, and McDougal. 3,034,759.
Eshbaugh, Jesse E., and McDougal. 3,047,235.
McDougal, John A., and J. D. McMichael, to General Motors Corp. Combined strainer and fuel tank "empty" signaling device. 3,023,905, 3–6–62, Cl. 210—72.
McDougall, Daniel R.: *See*—
Batcheller, Kent J., and McDougall. 3,041,619.
McDougall, Edgbert. Safety clothes rack. 3,058,796, 10–16–62, Cl. 312—274.
McDougall, John W., Co., Inc.: *See*—
Slater, Douglas M. 3,034,559.
McDowall, Charles J., and H. W. Welsh, to General Motors Corp. Blade retention means. 3,039,738, 6–19–62, Cl. 253—77.
McDowell, Edwin J., ½ to A. G. Hively. Metal bending machine. 3,059,684, 10–23–62, Cl. 153—46.
McDowell Co., Inc.: *See*—
McDowell, Robert C., and Gambon. 3,060,496.
Rowen, Harold E. 3,040,375.
McDowell, Earle B.: *See*—
Larew, John J., and McDowell. 3,070,227.
McDowell, Maurice J., to E. I. du Pont de Nemours and Co. Aqueous dispersion paint compositions. 3,037,881, 6–5–62, Cl. 117—72.
McDowell, Richard V.: *See*—
Byrne, Joseph, McDowell, and Lammerman. 3,027,244.
McDowell, Robert C., and E. A. Gambon, to McDowell Co., Inc. Apparatus for making nodules or pellets. 3,060,496, 10–30–62, Cl. 18—1.
McDowell, Samuel A. Marine railway. 3,058,312, 10–16–62, Cl. 61—67.
McDowell, Thomas E., to Brandon Equipment Co., Inc. Vehicle tie-down. 3,041,027, 6–26–62, Cl. 248—119.
McDowell, Thomas E., to Brandon Equipment Co., Inc. Trailer hitch. 3,041,028, 6–26–62, Cl. 248—119.
McDuff, Leon E., to Johns-Manville Corp. Firewall conduit support. 3,058,759, 10–16–62, Cl. 285—47.
McDuffie, James W.: *See*—
Nolt, Edwin B., and McDuffie. 3,027,825.
Nolt, Edwin B., and McDuffie. 3,040,508.
McDuffie, James W., to Sperry Rand Corp. Hay baler. 3,036,514, 5–29–62, Cl. 100—19.
McDuffie, James W., to Sperry Rand Corp. Control device. 3,059,490, 10–23–62, Cl. 74—242.1.
McDuffie, James W., and E. B. Nolt, to Sperry Rand Corp. Hay balers. 3,030,877, 4–24–62, Cl. 100—142.
McDuffie, James W., and E. B. Nolt, to Sperry Rand Corp. Hay baler. 3,044,390, 7–17–62, Cl. 100—142.
McDuffie, James W., and E. B. Nolt, to Sperry Rand Corp. Hay baler. 3,068,784, 12–18–62, Cl. 100—142.
McDuffie, Orville W., to International Paper Co. Multiwall bag. 3,023,947, 3–6–62, Cl. 229—55.
McDuffie, Thomas E. Temperature sweep device. 3,025,038, 3–13–62, Cl. 257—274.
McEachern, Loyd R., to The American Monorail Co. Compound boot. 3,045,929, 7–24–62, Cl. 239—566.
McElhany, Earl O., to Remington Arms Co., Inc. Press feeding device. 3,070,206, 12–25–62, Cl. 198—24.
McElhenie, Edward M.: *See*—
Kimbro, William S., and McElhenie. 3,035,778.
McElhenie, Edward M., to Buckner Mfg. Co. Retractable stop for a rotary sprinkler. 3,051,396, 8–28–62, Cl. 239—230.
McElheny, Clinton B.: *See*—
Sauers, Myrl M., and McElheny. 3,019,568.
Sauers, Myrl M., and McElheny. 3,025,599.
McElheny, John B.: *See*—
Conrad, Martin B., and McElheny. 3,061,010.
McElheny, John B., to The Hydro-Perf Co. Oil well casing perforator. 3,058,522, 10–16–62, Cl. 166—55.4.
McElheny, John B. Process and apparatus for increasing the flow of subterranean fluids into wells. 3,058,523, 10–16–62, Cl. 166—55.4.
McElligott, Paul A.: *See*—
Oakes, Earle T., Doom, McElligott, and Sundheim. 3,066,707.
McElrath, William W. Machine for processing non-shrinking fibrous materials. 3,055,078, 9–25–62, Cl. 26—1.
McElravy, Henry A., Jr.: *See*—
Slezak, Frank B., and McElravy. 3,035,055.
McElroy, Albert D., and J. P. Nigon, to Callery Chemical Co. Alkali metal derivatives of decaborane. 3,021,190, 2–13–62, Cl. 23—14.
McElroy Electronics Corp.: *See*—
Cook, Wilbert H. 3,041,527.
McElroy, Roy W. Method and means for causing seism. 3,029,733, 4–17–62, Cl. 102—22.
McElwain, J. F., Co., division of Melville Shoe Corp.: *See*—
Piotrowski, Joseph L., and Currier. 3,025,542.
McElwee, John G.: *See*—
Ullrich, Robert H., Jr. 3,035,747.
McElyea, John H.: *See*—
Doyle, William M. 3,029,754.
McEuen, Kenneth W., and E. M. Smith, to Lukens Steel Co. Cladding of steel plates with titanium. 3,015,885, 1–9–62, Cl. 29—470.9.
McEver, James W., to Shell Oil Co. Production of crude oil. 3,066,732, 12–4–62, Cl. 166—7.
McEvoy Co.: *See*—
Burns, Ray S., Rhodes, and Eichenberg. 3,059,698.
Freeman, Mathew L. 3,063,469.
Jackson, John G., Jr., and Rhodes. 3,017,931.
Lewis, Dan W., and Johnson. 3,068,027.
Nevill, Gale E., Jr. 3,037,519.
Rhodes, Allen F. 3,028,917.
McEvoy, James B., and T. H. Milliken, Jr., to Air Products and Chemicals, Inc. Hydrogen from hydrocarbons. 3,057,689, 10–9–62, Cl. 23—212.
McEvoy, Joseph, to Nutone, Inc. Striker mechanism for door chime. 3,038,440, 6–12–62, Cl. 116—141.
McEwan, James. Lawn mower sharpener. 3,045,398, 7–24–62, Cl. 51—48.
McEwen, Cassius R., to Union Oil Co. of California. Radioactive solid particles for use in well logging. 3,070,696, 12–25–62, Cl. 250—83.3.
McEwen, Malcolm: *See*—
Kosmin, Milton, and McEwen. 3,041,261.
McEwen, Norman S. Flying trolley slide. 3,040,678, 6–26–62, Cl. 105—150.
McEwen, William D. Armature for sculpturing. 3,055,119, 9–25–62, Cl. 35—26.
McFadden, Bertram W.: *See*—
York, David S., McFadden, and Meara. 3,027,747.
McFadden, Charles A.: *See*—
Remmey, George B., and McFadden. 3,055,652.
McFadden, Edward J.: *See*—
McLerran, Archie R., and McFadden. 3,025,872.
McFall, Harry. Railing construction. 3,033,532, 5–8–62, Cl. 256—21.
McFalls, Richard J.: *See*—
Miller, Myron M., McFalls, and Huntley. 3,031,679.
McFarlan, Alden I. Air conditioning system. 3,067,587, 12–11–62, Cl. 62—159.
McFarlan, Alden I. Refrigeration. 3,067,592, 12–11–62, Cl. 62—426.
McFarland, Arthur E.: *See*—
McFarland, Artie F. and A. E. 3,058,351.
McFarland, Artie F. and A. E. Electrical automatic pipe line sampler. 3,058,351, 10–16–62, Cl. 73—422.
McFarland, David M., to Atlas Chemical Industries, Inc. Method and apparatus for blasting. 3,056,349, 10–2–62, Cl. 102—22.
McFarland, Forest R., to Studebaker-Packard Corp. Suspension interlinkage. 3,017,196, 1–16–62, Cl. 280—124.
McFarland, James E., to The Narda Microwave Corp. Coaxial hybrid junctions. 3,063,026, 11–6–62, Cl. 333—10.
McFarland, Jon M.: *See*—
Pistole, Harry, True, Pitts, Morse, McFarland, and Boer. 3,040,811.
McFarland, Norman T.: *See*—
Licitis, Gunars, and McFarland. 3,026,111.
McFarland, Richard B., to The Seeburg Corp. Selectors for automatic phonographs. 3,021,507, 2–13–62, Cl. 340—162.
McFarland, Rolland, Jr., to Hills-McCanna Co. Plug valve. 3,041,036, 6–26–62, Cl. 251—171.
McFarland, William E., and A. C. Gambel, to Southern Industries Corp. Process for preventing caking of sugar. 3,063,158, 11–13–62, Cl. 34—32.
McFarland, William O. Continuity tester. 3,046,476, 7–24–62, Cl. 324—53.
McFarlane, Andrew D. Water closet valve actuating linkage. 3,038,168, 6–12–62, Cl. 4—67.
McFarlane, James: *See*—
Hann, Kenneth G., and McFarlane. 3,068,353.
McFarlane, Maynard D., to Robertshaw-Fulton Control Co. Temperature control device. 3,067,512, 12–4–62, Cl. 219—20.
McFarlane, Richard B. Beam communication system. 3,065,352, 11–20–62, Cl. 250—199.
McFarlin, Kirk. Valve housing with strainer. 3,037,636, 6–5–62, Cl. 210—429.
McFarlin, Richard F., and J. G. Stites, Jr., to Monsanto Chemical Co. Production of ammonium nitrate compositions. 3,030,179, 4–17–62, Cl. 23—103.
McFeaters, Harry L., to Pennsylvania Engineering Corp. Hood post crane. 3,026,102, 3–20–62, Cl. 266—35.
McFeaters, Harry L., and I. W. Lakin, to Pennsylvania Engineering Corp. Furnace system. 3,022,990, 2–27–62, Cl. 266—36.
McFerren, Edgar L., to Giddings & Lewis Machine Tool Co. Machine tool work table. 3,049,345, 8–14–62, Cl. 269—9.
McFetters, George A., to Greensboro Loom Reed Co., Inc. Anti-friction instrumentalities for a loom. 3,049,151, 8–14–62, Cl. 139—93.
McGahan, Wallace A., and H. Hornschuch, to Ingersoll-Rand Co. Rotary shaft seal. 3,062,554, 11–6–62, Cl. 277—3.

McGarrell, Paul H.: *See*—
Balish, Frank R., McGarrell, Miller, and Naylor. 3,023,371.

McGary, Charles W., Jr.: *See*—
Patrick, Charles T., Jr., and McGary. 3,019,203.
Tinsley, Samuel W., Starcher, McGary, and Patrick. 3,019,202.
Tinsley, Samuel W., Starcher, McGary, and Patrick. 3,035,001.

McGaughey, James H., to A. O. Smith Corp. Service station inventory control. 3,055,549, 9–25–62, Cl. 222—2.

McGauley, Patrick J. Recovery of elemental sulfur from sulfur bearing materials. 3,042,502, 7–3–62, Cl. 23—308.

McGauley, Patrick J., to Chemetals Corp. Treatment of sulfide minerals. 3,053,651, 9–11–62, Cl. 75—116.

McGauley, Walter G. Tooth brushes. 3,067,446, 12–11–62, Cl. 15—143.

McGavern, Sanford A., to Schwitzer Corp. Cable motion damper. 3,048,649, 8–7–62, Cl. 174—42.

McGary, Andrew. Combination two direction check and gate valve. 3,062,232, 11–6–62, Cl. 137—495.

McGay, John B., and G. B. Clift, to Rockwell Register Corp. Fluid pressure sensitive device. 3,034,535, 5–15–62, Cl. 137—790.

McGay, John B., and B. G. Stoops, to Rockwell Mfg. Co. Escapement timed fluid and spring motor. 3,065,594, 11–27–62, Cl. 60—7.

McGean Chemical Co.: *See*—
Waite, Virgil H., and Martin. 3,017,333.

McGee, Andrew J., to Prescription Drug Co., Inc. Rescue breathing device. 3,057,347, 10–9–62, Cl. 128—29.

McGee, Calvin C. Attachment for bulldozer or tractor. 3,021,619, 2–20–62, Cl. 37—2.

McGee, Harold. Pressure control apparatus. 3,038,044, 6–5–62, Cl. 200—83.

McGee, James D., to National Research Development Corp. Electron discharge devices. 3,043,974, 7–10–62, Cl. 313—65.

McGee, James D., to National Research Development Corp. Photo-electron image multiplier. 3,062,962, 11–6–62, Cl. 250—213.

McGee, James G., Jr.: *See*—
Dunlap, Charles K., Jr., Gibson, McGee, and Sedberry. 3,064,870.

McGee, Joseph E. Toothbrushes. 3,065,479, 11–27–62, Cl. 15—167.

McGee, Leland T. Combination scraper and scarifier. 3,034,238, 5–15–62, Cl. 37—145.

McGee, Leland T. Earth working implement. 3,058,243, 10–16–62, Cl. 37—145.

McGeever, Joseph B.: *See*—
Lulkart, Ralph, II., and McGeever. 3,023,601.

McGehee, Clyde, A. B. Newton, and S. P. Soling, to Borg-Warner Corp. Ice maker controls. 3,054,274, 9–18–62, Cl. 62—138.

McGeogh, James E.: *See*—
Jensen, Garold K., and McGeogh. 3,054,965.

McGhee, John D.: *See*—
Leyenberger, John, and McGhee. 3,056,936.

McGihon, Leonard, to King-O-Matic Equipment Corp. Carton feeding, erecting and filling mechanism. 3,037,431, 6–5–62, Cl. 93—53.

McGihon, Leonard, to King-O-Matic Equipment Corp. Carton feeding, erecting, filling and closing mechanism. 3,058,271, 10–16–62, Cl. 53—37.

McGill, Charles K., to Reilly Tar & Chemical Corp. Process of preparing ethynylpyridines. 3,045,022, 7–17–62, Cl. 260—290.

McGill, Daniel F. Dual pump power transmission. 3,054,357, 9–18–62, Cl. 103—136.

McGill, Harold C.: *See*—
Ralston, Edgar K., and McGill. 3,048,809.

McGill, John N.: *See*—
Nelson, Alvin L., McGill, and Steinberg. 3,063,849.

McGill, Landon G.: *See*—
Davis, Daniel O., and McGill. 3,042,946.
Davis, Daniel O., and McGill. 3,046,575.

McGill Metal Products Co.: *See*—
Wenton, Spencer C., and Hendricks. 3,058,256.

McGill, Russell C.: *See*—
Milani, Virgil I., McGill, and Starr. 3,049,043.

McGillem, Clare D., and T. V. Seling, to General Motors Corp. Radiometer technique for classifying materials. 3,028,596, 4–3–62, Cl. 343—100.

McGillis, Hugh D.: *See*—
McGillis, John J. and H. D. 3,053,314.

McGillis, John J. and H. D. Rotary oil burners. 3,053,314, 9–11–62, Cl. 158—77.

McGillivray, Harold J. Method of fertilizing and controlling soil moisture with phosphate slime. 3,020,676, 2–13–62, Cl. 47—58.

McGilvrey, Robert G.: *See*—
Rinker, William R., and McGilvrey. 3,055,279.

McGimpsey, William W.: *See*—
Pellaton, Ernest C., McGimpsey, and Saffores. 3,059,827.

McGinley, Emanuel J.: *See*—
Herald, Carl T., McGinley, and Battista. 3,067,037.

McGinley, James H.: *See*—
Eiland, Phillip F., Jr., and McGinley. 3,043,142.

McGinley, Thomas F. Rotary weaving and spinning machine. 3,056,430, 10–2–62, Cl. 139—11.

McGinn, Lawrence A.: *See*—
Cole, Stephen, and McGinn. 3,027,003.

McGinnis, Leon W.: *See*—
Mains, Gerald H., McGinnis, and Tatnall. 3,022,203.

McGinty, Henry J.: *See*—
Peck, Donald S., and McGinty. 3,026,629.
White, Hosea D., Jr., Cohen, and McGinty. 3,026,630.

McGinty, William K., to Thomas Industries Inc. Spring latch. 3,027,452, 3–27–62, Cl. 240—147.

McGivern, Robert F. Aerobic digestion system for use in sewage treatment. 3,028,011, 4–3–62, Cl. 210—220.

McGlasson, Robert L., to Continental Oil Co. Method and apparatus for the testing of a tubular member. 3,024,651, 3–13–62, Cl. 73—151.

McGlasson, Robert L., F. J. Radd, and D. A. Shock, to Continental Oil Co. Apparatus for treating process streams. 3,030,296, 4–17–62, Cl. 204—266.

McGlaughlin, Frederick G., to Red-Ray Mfg. Co., Inc. Refractory gas burner. 3,029,865, 4–17–62, Cl. 158—113.

McGlaughlin, Thomas W., to Monsanto Chemical Co. Control circuit. 3,040,156, 6–19–62, Cl. 219—20.

McGlew, John J.: *See*—
Bailey, Frank W. 3,023,955.

McGlothlin, Bruce B.: *See*—
Huitt, Linnie L., McGlothlin, and Papaila. 3,026,938.

McGlothlin, Ross E.: *See*—
Gustafson, August W., and McGlothlin. 3,052,077.

McGlynn, Walter J., to Standard Packaging Corp. Key case with removable key retainer. 3,070,142, 12–25–62, Cl. 150—40.

McGough, D'Arle L., to The Firestone Tire & Rubber Co. Method of forming an air spring of rubberized fabric plies. 3,057,768, 10–9–62, Cl. 156—202.

McGow, Thomas C., to The Rapids-Standard Co., Inc. Weight sensitive conveyor. 3,047,127, 7–31–62, Cl. 198—160.

McGow, Thomas C., N. C. Poel, and H. Olk, to The Rapids-Standard Co., Inc. Accumulator conveyor. 3,062,359, 11–6–62, Cl. 198—160.

McGowan, John P., and O. M. Small, to Owens-Illinois Glass Co. Copper base alloy. 3,067,027, 12–4–62, Cl. 75—162.

McGowan, Kenneth G.: *See*—
McAfee, Charles H., McGowan, and Winkel. 3,057,453.

McGowen, Harold E., Jr., to Camco, Inc. Storing tape in a tubular tape recorder. 3,020,354, 2–6–62, Cl. 179—100.2.

McGowen, Harold E., Jr., and H. H. Moore, Jr., to Camco, Inc. Well plunger. 3,037,558, 6–5–62, Cl. 166—170.

McGrail, John F.: *See*—
Lyman, David H. C., and McGrail. 3,024,043.

McGrath, Albert A.: *See*—
Gunderson, Henry W., Jr., and McGrath. 3,047,329.

McGrath, Earle J., to FMC Corp. Conveyor mechanism. 3,017,007, 1–16–62, Cl. 193—40.

McGrath, Earle J., to FMC Corp. Warehousing apparatus. 3,027,023, 3–27–62, Cl. 214—16.

McGrath, Earle J., and C. H. Stevenson, III, said McGrath assor. to FMC Corp. Apparatus for handling cases. 3,050,199, 8–21–62, Cl. 214—6.

McGrath, Henry G.: *See*—
Nathan, Marvin F., Howard, and McGrath. 3,043,769.

McGrath, Henry G., and G. A. Vincent, to M. W. Kellogg Co. Hydrocarbon conversion system. 3,033,780, 5–8–62, Cl. 208—136.

McGrath, Joseph J.: *See*—
Halter, Robert E., and McGrath. 3,035,907.
Halter, Robert E., McCarthy, and McGrath. 3,042,614.

McGrath, Joseph J., and J. P. Pellegrini, Jr., to Gulf Research & Development Co. Lubricating oil thickened to a grease consistency with a bishydantoin. 3,047,498, 7–31–62, Cl. 252—28.

McGrath, Martin H., to General Cable Corp. Joint for aluminum sheathed cables. 3,068,315, 12–11–62, Cl. 174—84.

McGrath, Robert E.: *See*—
Frechette, Leo P., Jr., McGrath, Charboneau, and Wheer. 3,038,552.

McGrath, Robert J.: *See*—
Hoadley, Lemuel D., McGrath, and Morgan. 3,053,524.

McGrath, Thomas F., to American Cyanamid Co. Alkylation of aromatic compounds. 3,046,309, 7–24–62, Cl. 260—612.

McGrath, William A., to The Frog Switch & Mfg. Co. Railway frog. 3,022,968, 2–27–62, Cl. 246—468.

McGrath, William L., to Carrier Corp. Ice making. 3,020,724, 2–13–62, Cl. 62—68.

McGrath, William L., to Carrier Corp. Air distribution assembly. 3,045,578, 7–24–62, Cl. 98—40.

McGrath, William L., to Carrier Corp. Signal device. 3,048,834, 8–7–62, Cl. 340—240.

McGrath, William L., to Carrier Corp. Protective device for compressor in air conditioning unit. 3,053,057, 9–11–62, Cl. 62—158.

McGrath, William L., to Carrier Corp. Thermal expansion valve. 3,054,273, 9–18–62, Cl. 62—115.

McGrath, William L., to Carrier Corp. Air conditioning apparatus. 3,059,448, 10–23–62, Cl. 62—203.

McGrath, William L., to Carrier Corp. Defrosting arrangement for heat pump. 3,068,661, 12–18–62, Cl. 62—156.

McGrath, William L., and C. G. Alt, to Carrier Corp. Ice making. 3,045,440, 7–24–62, Cl. 62—68.

McGrath, William L., and D. E. MacLeod, to Carrier Corp. Ice making. 3,045,443, 7–24–62, Cl. 62—71.

McGrath, William L., and R. F. Randolph, to Carrier Corp. Automatic controls for air conditioning unit. 3,054,271, 9–18–62, Cl. 62—89.

McGraw, Charles J.: *See*—
Walsh, Francis J., and McGraw. 3,052,058.
McGraw-Edison Co.: *See*—
Abromaitis, Andre T. 3,044,050.
Anderson, George M. 3,041,412.
Basiago, Raymond, and Williams. 3,046,458.
Bertling, Ronald J. 3,052,786.
Bethke, Raymond W. 3,056,101.
Brown, Jack W. 3,018,110.
Brown, Jack W., and Crocker. 3,061,688.
Burns, Fredrick B. 3,023,694.
Clark, Philip B., and Harling. 3,062,953.
Conlee, George D. 3,034,226.
Conlee, George D. 3,059,344.
Conlee, George D., and Buck. 3,028,680.
Crocker, Harry E. 3,051,492.
Czech, Clifford F. 3,021,997.
Czech, Clifford F. 3,041,864.
Date, Kazuo H. 3,052,782.
Date, Kazuo H. 3,064,107.
Date, Kazuo H., and Van Ryan. 3,030,476.
Devine, Joseph A., and Tabowsky. 3,038,046.
Dietz, John J. 3,041,589.
Esser, George W. 3,021,394.
Fister, Aloysius J. 3,061,700.
Froland, Olav. 3,038,052.
Froland, Olav. 3,056,006.
Goettl, Adam D. 3,045,576.
Goettl, Adam D. 3,058,726.
Goettl, Adam D. 3,063,766.
Goettl, Albert B. 3,029,744.
Gomersall, John R. 3,031,781.
Gomersall, John R. 3,070,978.
Handley, Harold E. 3,044,585.
Harling, Donald W. 3,062,952.
Hase, Alfred M. 3,052,572.
Hatfield, Frederick A. 3,043,000.
Henningsen, Erik. 3,034,946.
Hensler, Elmer G. 3,058,874.
Holladay, Fred O., and Kobler. 3,046,019.
Howling, Dennis H. 3,047,761.
Johnson, Graham H. 3,062,974.
Jones, Loren C. 3,043,743.
Kayko, Charles J. 3,053,028.
Kayko, Charles J., and Hendrickson. 3,065,436.
Knapmeyer, Gilbert B. 3,068,966.
Kobler, Richard. 3,038,037.
Kobler, Richard, and Whitney. 3,040,133.
Kossor, Albert A., and Whitney. 3,034,241.
Krichton, Carl V. 3,051,820.
La Forest, Louis Z. 3,040,135.
Lang, Richard J., and Bronikowski. 3,038,048.
Lehman, Eugene J. 3,021,502.
McAlister, Craig L. 3,022,289.
McCloud, George R. 3,048,680.
McCloud, George R., and Dryer. 3,032,630.
Mercier, Carl E. 3,070,770.
Mocker, William A., Packard, and Zimsky. 3,058,160.
Nash, William H., and Van Ryan. 3,043,989.
Ogle, James A., Jr., and Gomersall. 3,018,671.
Olson, Henry L. 3,059,092.
Pertici, Andrew L. 3,042,777.
Petersen, Clifford W. 3,070,194.
Petre, John R. 3,058,563.
Phillips, Davis M. 3,032,606.
Phillips, Davis M. 3,033,912.
Piilola, Calvin E. 3,055,563.
Pirhofer, Daniel J. J. 3,063,003.
Postal, Robert H., Paxson, and Davidson. 3,039,055.
Roxberry, Richard C. 3,041,458.
Schindler, Carl. 3,018,795.
Schultz, Blaine H., Spiece, and Pirhofer. 3,062,989.
Schwandes, Elmer A., and Stramowski. 3,052,779.
Shaffer, Robert A., and McIntyre. 3,040,200.
Smith, John R. 3,045,195.
Smythe, Robert L. 3,051,278.
Spiece, Stanley J. 3,055,968.
Steinmayer, Alwin G., and Everhart. 3,032,863.
Van Dusen, Harold A., Jr. 3,033,978.
Walker, Richard K. 3,047,698.
Weinfurt, William J. 3,030,467.
Weinfurt, William J. 3,043,923.
Whitney, William G. 3,021,143.
Whitney, William G., and Wu. 3,050,596.
Wilson, Gordon A., Jr. 3,045,173.
Wilson, Gordon A., Jr., and Yatchum. 3,045,090.
McGraw, George P., Jr., to Western Electric Co., Inc. Drive system for advancing a web of plastic material in a metallizing apparatus. 3,030,912, 4–24–62, Cl. 118—49.
McGraw, George P., Jr., to Western Electric Co., Inc. Method of mounting electrical components. 3,063,134, 11–13–62, Cl. 29—155.5.
McGraw, Leslie D.: *See*—
McCallum, John, Johnson, Ditmars, and McGraw. 3,033,910.
McGraw, Marion R.: *See*—
Fisher, Edward G., and McGraw. 3,051,964.
McGraw, William J., to E. I. du Pont de Nemours and Co. Photopolymerizable elements. 3,024,180, 3–6–62, Cl. 204—163.
McGregor, John E.: *See*—
Altenau, Edward E., Leverett, and McGregor. 3,065,460.
McGrew, Charles B., Jr., to International Harvester Co. Lamp assembly for motor vehicles. 3,032,644, 5–1–62, Cl. 240—7.1.
McGrew, Edwin H.: *See*—
Braithwaite, David G., McGrew, Hettinger, and D'Amico. 3,034,994.
Braithwaite, David G., McGrew, Hettinger, and D'Amico. 3,034,995.
McGrew, Edwin H., and W. P. Hettinger, Jr., to Nalco Chemical Co. Stabilization of catalysts of molybdena-cobalt oxide on alumina hydrogel carriers. 3,061,555, 10–30–62, Cl. 252—465.
McGrew, Frank C., to United States of America, Navy. Hydropulse fuel compositions. 3,034,937, 5–15–62, Cl. 149—109.
McGriff, Stuart G., to Callery Chemical Co. Production of sodium. 3,044,870, 7–17–62, Cl. 75—66.
McGrogan, Ellwood P., Jr., to Radio Corp. of America. Pulse generator employing negative resistance diodes to effect high voltage output. 3,056,048, 9–25–62, Cl. 307—88.5.
McGuigan, John H., to Bell Telephone Laboratories, Inc. Magnetic core memory matrix. 3,016,521, 1–9–62, Cl. 340—174.
McGuire, George E., R. F. Uren, and F. G. Woodside, to L. A. Young Spring & Wire Corp. Hydraulically actuated derrick attachment for vehicles. 3,023,914, 3–6–62, Cl. 212—145.
McGuire, Harold E. Outboard motor mountings. 3,056,977, 10–9–62, Cl. 9—6.
McGuire, Hugh V.: *See*—
Knapp, Arthur D., Flabiano, and McGuire. 3,032,753.
McGuire, James M.: *See*—
McCormick, Mack H., and McGuire. 3,067,099.
McGuire, James M., and R. L. Mann, to Eli Lilly and Co. Hygromycin B, its production and treatment of intestinal parasites. 3,018,220, 1–23–62, Cl. 167—53.
McGuire, John O. Surgeon's operating chair. 3,029,106, 4–10–62, Cl. 297—216.
McGuire, Martin J. Swing. 3,058,744, 10–16–62, Cl. 272—85.
McGuire, Mary H.: *See*—
Roberts, Donald R., and McGuire. 3,057,354.
McGuire, Robert J., to Gulf Research & Development Co. Fuel oils having improved combustion characteristics. 3,047,373, 7–31–62, Cl. 44—57.
McGuire, Robert J., to Gulf Research & Development Co. Fuel oils having improved burning characteristics. 3,066,018, 11–27–62, Cl. 44—66.
McGuirk, Francis, to Chamberlain & Hookham Ltd. Means for adjustably connecting together two parts. 3,059,737, 10–23–62, Cl. 189—36.
McGurty, James A., and J. F. Collins, to General Electric Co. Oxidation resistant chromium alloy. 3,015,559, 1–2–62, Cl. 75—176.
McGurty, James A., and J. F. Collins, to General Electric Co. Oxidation resistant iron-chromium alloy. 3,017,265, 1–16–62, Cl. 75—126.
McGurty, James A., and J. F. Collins, to General Electric Co. Oxidation resistant iron-chromium alloy. 3,027,252, 3–27–62, Cl. 75—126.
McHale, Francis V., to Independent Lock Co. Door closer. 3,059,268, 10–23–62, Cl. 16—62.
McHenry, John R.: *See*—
Rhodes, Donald W., McHenry, and Ames. 3,032,497.
McHenry, Thomas F., to Barnesh Engineering Co. Folded immersed bolometer. 3,059,113, 10–16–62, Cl. 250—83.
McHolland, Clair L.: *See*—
Campbell, Oren R., Jr., and McHolland. 3,033,922.
McHue, Leo T.: *See*—
Martin, Clyde G., and McHue. 3,026,843.
McHugh, Charles J., Jr., and E. F. Rowekamp, to The Lodge & Shipley Co. Case cleaning machine. 3,032,798, 5–8–62, Cl. 15—304.
McHugh, John F.: *See*—
Hurley, Daniel R., and McHugh. 3,066,679.
McHugh, John F., and P. Adhikary, to Interchemical Corp. Planographic printing. 3,053,177, 9–11–62, Cl. 101—149.2.
McIlhenny, Alan, to Link-Belt Co. Liquid sewage rotary distributor. 3,045,924, 7–24–62, Cl. 239—254.
McIlhenny, William F., and A. B. Baker, to The Dow Chemical Co. Method for making potable water and magnesium chloride from sea water. 3,056,651, 10–2–62, Cl. 23—91.
McIlvaine, Oran T. Light control devices and methods of manufacturing same. 3,031,351, 4–24–62, Cl. 250—237.
McIlvaine, Robert L.: *See*—
Huppke, Glen P., and McIlvaine. 3,020,977.
Kauffman, John H., McIlvaine, and Granath. 3,034,835.
McIlvin, Leon D.: *See*—
Stieglitz, Hermann W., Jacob, and McIlvin. 3,036,204.
McInerney, John A.: *See*—
Fennema, Richard, and McInerney. 3,057,378.
McInerney, John A., to Crane Co. Combined valve actuating and indicator mechanism. 3,040,773, 6–26–62, Cl. 137—556.3.
McInerney, John A., and K. B. Bredtschneider, to Crane Co. Digester capping valve. 3,035,598, 5–22–62, Cl. 137—240.
McInerney Spring and Wire Co.: *See*—
McInerney, William K. 3,069,701.
McInerney, William K., to McInerney Spring and Wire Co. Seat unit. 3,069,701, 12–25–62, Cl. 5—351.
Mcininch, Gleun W.: *See*—
George, Warren E., Kiechel, and Mcininch. 3,057,088.

McInnich, Glenn W., to Auburn Machine Works, Inc. Digging tip. 3,049,824, 8–21–62, Cl. 37—191.

McInnish, Paul J. Ultrasonic probe. 3,068,370, 12–11–62, Cl. 310—8.1.

McInroy, John, to The Hymatic Engineering Co. Ltd. Gas liqueñers. 3,021,683, 2–20–62, Cl. 62—42.

McInroy, John, to The Hymatic Engineering Co. Ltd. Hygrometers. 3,041,878, 7–3–62, Cl. 73—335.

McIntosh, Jud D., to Lithonia Lighting, Inc. Lighting fixture. 3,070,689, 12–25–62, Cl. 240—51.11.

McIntosh, Keith S.: *See*—
Lazar, Nicholas, and McIntosh. 3,051,879.

McIntosh, Lester A. Spring shackle. 3,030,101, 4–17–62, Cl. 267—54.

McIntyre, Alexander A.: *See*—
Stram, George, McIntyre, and Geiselman. 3,043,434.
Stram, George, McIntyre, and Thomas. 3,015,395.

McIntyre, James E., and J. S. M. Robertson, to Imperial Chemical Industries Ltd. Highly polymeric polymethylene terephthalates. 3,055,868, 9–25–62, Cl. 260—75.

McIntyre, James E., and D. Maclean, to Imperial Chemical Industries Ltd. Polyesters condensed in presence of pentavalent antimony compound as catalyst. 3,055,870, 9–25–62, Cl. 260—75.

McIntyre, Joseph H., to Ford Motor Co. Pressure control valve mechanism. 3,060,896, 10–30–62, Cl. 121—38.

McIntyre, Maurice J., to The Humboldt Co. Skyline yarder with radio controls. 3,022,747, 2–27–62, Cl. 104—178.

McIntyre, Maurice J., to The Humboldt Co. Hanger. 3,037,-465, 6–5–62, Cl. 105—151.

McIntyre, Newman, to McIntyre Packaging, Inc. Strand winding and packaging apparatus and method. 3,024,580, 3–13–62, Cl. 53—24.

McIntyre Packaging, Inc.: *See*—
McIntyre, Newman. 3,024,580.

McIntyre, Robert J.: *See*—
McIntyre, Thomas F. and R. J. 3,015,981.

McIntyre, Roy L. Portable electric puff irons. 3,041,758, 7–3–62, Cl. 38—39.

McIntyre, Sidney S., to The Humboldt Co. Loading boom with adjustable extension arm. 3,032,207, 5–1–62, Cl. 212—35.

McIntyre, Sidney S., Sr., to The Humboldt Co. Mobilized lifting and loading boom. 3,032,206, 5–1–62, Cl. 212—35.

McIntyre, Thomas F. and R. J. Clarinets. 3,015,981, 1–9–62, Cl. 84—382.

McIntyre, William J. Salt and powder dispenser for cattle. 3,053,229, 9–11–62, Cl. 119—54.

McIsaac, Paul R.: *See*—
Itzkan, Irving, and McIsaac. 3,024,384.

McIver, Donald J., and S. R. Scruby, to Systems Engineering & Mfg. Co., Inc. Conveying of solids. 3,069,205, 12–18–62. Cl. 302—17.

McKamey, Birch L., to General Motors Corp. Cryogenic fluid transfer line coupling. 3,068,026, 12–11–62, Cl. 285—47.

McKay, Alexander S.: *See*—
Allen, Joseph C., and McKay. 3,038,333.

McKay, Alexander S., and H. E. Hall, Jr., to Texaco Inc. Radioactivity geophysical prospecting. 3,016,961, 1–16–62, Cl. 175—41.

McKay, Arthur F.: *See*—
Garmaise, David L., and McKay. 3,026,343.

McKay, Dwight L., to Phillips Petroleum Co. Filtering technique. 3,029,948, 4–17–62, Cl. 210—68.

McKay, Frank C.: *See*—
Albertson, Noel F., and McKay. 3,062,805.

McKay, Harry M., to Binkley Mfg. Co. Landing gear for trailers. 3,033,522, 5–8–62, Cl. 254—86.

McKay, Harry M., to The Binkley Co. Truck trailer with shiftable running gear for load equalizing. 3,043,605, 7–10–62. Cl. 280—81.

McKay, James G. Package imprinting apparatus. 3,035,-515. 5–22–62, Cl. 101—37.

McKay, James G. Carton rotating and conveying apparatus. 3,047,123, 7–31–62, Cl. 198—33.

McKay, James R. Bed frames. 3,056,974, 10–9–62, Cl. 5—247.

McKay, John G., to The Pipe Machinery Co. Prepositioning chuck. 3,055,245, 9–25–62, Cl. 82—48.

McKay Machine Co., The: *See*—
Ellis, Alonzo G. 3,040,163.
James, Edwin B. 3,044,620.
Longfield, William F. 3,028,825.
Menster, Gilbert F. 3,020,624.
Miller, John S. 3,046,819.

McKay, Michael W.: *See*—
Basim, Donald S., Flower, and McKay. 3,023,407.

McKay, Thomas N.: *See*—
Abelson, Arthur, and McKay. 3,058,334.

McKay, William T., to Empire Metal Products Co. Apparatus for making glass fiber rods. 3,034,566, 5–15–62, Cl. 156—441.

McKean, James D., to Premere Mfg. Corp. Portable collapsible shipping kennel for animals. 3,048,147, 8–7–62, Cl. 119—19.

McKechnie, Richard D. Upholstery cleaning machine. 3,065,-477, 11–27–62, Cl. 15—29.

McKee, Dale W.: *See*—
Erickson, Dennis E., and McKee. 3,031,091.
Mindrum, Kenneth H., and McKee. 3,039,633.

McKee, Ernest N.: *See*—
Deacon, Alan J., and McKee. 3,041,647.

McKee, George R. and J. M. Prentice, to Logan Co. Chain conveyor for dollies. 3,043,237, 7–10–62, Cl. 104—172.

McKee, Ian K., and W. Herbst, to National Starch and Chemical Corp. Tablet disintegrants. 3,034,911, 5–15–62, Cl. 106—210.

McKee, James R., to Ball Bros. Co., Inc. Method of coating containers. 3,028,260, 4–3–62, Cl. 117—94.

McKee, John R., Jr. Lap-lox fastener. 3,021,927, 2–20–62, Cl. 189—36.

McKee, Robert C., to The Institute of Paper Chemistry. Process of impregnating an assembled corrugated container board. 3,033,708, 5–8–62, Cl. 117—119.8.

McKee, Wilfred H.: *See*—
Steele, James G., and McKee. 3,069,055.

McKee, William D., Jr.: *See*—
McMullen, John C., and McKee. 3,069,238.

McKee, William H., to United-Carr Fastener Corp. Spring clip snap-in contact. 3,031,640, 4–24–62, Cl. 339—217.

McKeever, Charles H.: *See*—
Nemec, Joseph W., and McKeever. 3,057,903.

McKeever, Charles H., to Rohm & Haas Co. Separation and utilization of isobutylene. 3,026,362, 3–20–62, Cl. 260—677.

McKeirnan, William R.: *See*—
Lambert, Robert L., and McKeirnan. 3,017,281.
Lambert, Robert L., and McKeirnan. 3,017,284.

McKeirnan, William R., and L. D. Schwender, to Sylvania Electric Products Inc. Film coating for electron device envelopes. 3,028,288, 4–3–62, Cl. 156—86.

McKelvey, Ernest E.: *See*—
Boyer, Ernest W., Ford, and McKelvey. 3,050,622.

McKelvey, Richard B., to Boeing Airplane Co. Fastener means having supporting means to hold nut element to a workpiece. 3,020,947, 2–13–62, Cl. 151—41.75.

McKenna, Joseph F.: *See*—
Dewhirst, Robert D., and McKenna. 3,062,195.

McKenna, Philip M., to Kennametal Inc. Method of and apparatus for comminuting hard materials. 3,022,017, 2–20–62, Cl. 23—183.

McKenna, Richard C. Disposable douche. 3,057,352, 10–9–62, Cl. 128—248.

McKenna, Richard J. Portable foot and leg rest. 3,051,527, 8–28–62, Cl. 297—439.

McKenna, Thomas G., to Shell Oil Co. Process involving the bromination of vinyl phosphate triester compounds. 3,068,-270, 12–11–62, Cl. 260—461.

McKennell, Raymond, and G. Bradfield, to Ferranti Ltd. Viscometers. 3,062,040, 11–6–62, Cl. 73—59.

McKenney, Henry F., to Chrysler Corp. Air bearings. 3,070,-406, 12–25–62, Cl. 308—9.

McKennis, Herbert, Jr.: *See*—
Brouillette, Carl V., Foley, and McKennis. 3,025,159.

McKennis, Herbert, Jr., and E. R. Bowman, to Medical College of Virginia Foundation. Antispasmodic. 3,048,520, 8–7–62, Cl. 167—65.

McKernon, Keith R., to The Dow Chemical Co. Secondary recovery of petroleum. 3,039,529, 6–19–62, Cl. 166—9.

McKenzie, Charles A.: *See*—
Welch, Donald H., McKenzie, and Killey. 3,017,398.

McKenzie, Eugene L.: *See*—
Palmquist, Philip V., McKenzie, and Harrington. 3,043,-196.

McKenzie, Eugene L., to Minnesota Mining and Mfg. Co. Retroreflective elements and structures. 3,025,764, 3–20–62, Cl. 88—82.

McKenzie, Eugene L., to Minnesota Mining & Mfg. Co. Decorative reflective sheeting. 3,065,559, 11–27–62, Cl. 41—22.

McKenzie, Eugene L., and M. L. Johnson, to Minnesota Mining and Mfg. Co. Reflex-reflecting wall structure. 3,034,406, 5–15–62, Cl. 88—82.

McKenzie, George D.: *See*—
Ganguet, William A., and McKenzie. 3,058,282.

McKenzie, Ora, Jr.: *See*—
Brice, Herbert J., Jr., Bonnington, and McKenzie. 3,061,543

McKenzie, Roger W.: *See*—
Braun, Herbert J., Mallina, and McKenzie. 3,054,165.

McKenzie, Theodore R.: *See*—
Miller, Wilbur G., and McKenzie. 3,069,780.

McKenzie, William G., to Walker Mfg. Co. Lubricating system. 3,051,263, 8–28–62, Cl. 184—7.

McKenzie, William G., to Walker Mfg. Co. Lubrication system. 3,068,959, 12–18–62, Cl. 184—7.

McKenzie, William V. Take-off mechanism. 3,052,393, 9–4–62, Cl. 226—177.

McKeon, Charles E.: *See*—
Richey, Clarence B., and McKeon. 3,023,559.

McKeon, Charles E., and C. B. Richey, to Ford Motor Co. Machine for compressing hay into cakes. 3,015,199, 1–2–62, Cl. 56—1.

McKeon, Jeanne B. Infant's shoe protector. 3,045,367, 7–24–62, Cl. 36—72.

McKeon, William R. Auto key reminder. 3,020,523, 2–6–62, Cl. 340—52.

McKeown, Patrick J., and S. I. Frann, to Sperry Rand Corp., Ford Instrument Co. Div. Polar heading adapter. 3,022,008, 2–20–62. Cl. 235—187.

McKibben, Harley R.: *See*—
Otteson, Norman H. 3,023,428.

McKibben, Horace E., and P. F. Jones, to Blueberry Equipment, Inc. Oscillating blueberry stripper. 3,023,565, 3–6–62, Cl. 56—330.

McKiernan-Terry Corp. : *See*—
Kupka, John J. 3,016,819.
Kupka, John J. 3,041,839.
Kupka, John J. 3,050,809.
McKillip, Richard H., and R. Henderson, to Olin Mathieson Chemical Corp. Transparent food wrapper. 3,052,553, 9–4–62, Cl. 99—171.
McKim, Burton, to Bell Telephone Laboratories, Inc. Number identifying system. 3,041,407, 6–26–62, Cl. 179—18.
McKim, Paul A., to Ethyl Corp. Lead product. 3,053,633, 9–11–62, Cl. 75—211.
McKim, Paul A., to Ethyl Corp. Producing lead shapes. 3,053,654, 9–11–62, Cl. 75—211.
McKim, Robert H. Safety bottle closure. 3,063,588, 11–13–62, Cl. 215—9.
McKiney, James T. Automatic valve. 3,017,871, 1–23–62, Cl. 123—25.
McKinlay, Harry D., Jr., to Bell & Howell Co. Light responsive means. 3,045,124, 7–17–62, Cl. 250—226.
McKinlay, William, to The Danielson Mfg. Co. Vent tube and cap assembly. 3,021,029, 2–13–62, Cl. 220—44.
McKinley, Algene H., and D. T. Underwood, Jr., ½ to F. W. and D. T. Bischoff jointly. Apparatus for slaking lime. 3,066,016, 11–27–62, Cl. 23—287.
McKinley, Donald W. R., N. L. Kusters, and A. R. Morse, to National Research Council. Dynamic ground detectors. 3,066,284, 11–27–62, Cl. 340—255.
McKinley, Edwin W., to Controls Co. of America. Valve control apparatus. 3,024,811, 3–13–62, Cl. 137—623.
McKinley, Francis W. Regulating means. 3,051,128, 8–28–62, Cl. 119—157.
McKinley, Jack M. : *See*—
McKinley, Roe L. and J. M. 3,056,145.
McKinley, Joseph B. : *See*—
Elliott, George E., Jr., McKinley, and Stewart. 3,017,-368.
Henke, Alfred M., and McKinley. 3,053,760.
McKinley, Orman O. Roofing structure. 3,024,573, 3–13–62, Cl. 50—66.
McKinley, Raymond E. Milking machine and temperature control in combination therewith. 3,022,766, 2–27–62, Cl. 119—14.14.
McKinley, Robert E., and G. Gerlach, to United States of America, Army. Hydraulic ball press with automatic ball feed. 3,057,131, 10–9–62, Cl. 53—88.
McKinley, Roe L. Reciprocating bed units. 3,056,144, 10–2–62, Cl. 5—109.
McKinley, Roe L. and J. M. Unitary device for rocking a bed. 3,056,145, 10–2–62, Cl. 5—109.
McKinney, Alfred H., and C. D. Reilly, to E. I. du Pont de Nemours and Co. Fluid inspection apparatus. 3,020,795, 2–13–62, Cl. 88—14.
McKinney, Aubrey R., to Standard Oil Co. Preparation of dihydroxyethyl terephthalate. 3,060,223, 10–23–62, Cl. 260—475.
McKinney, Eldon O., and R. M. Magnetic key holder. 3,069,-801, 12–25–62, Cl. 70—456.
McKinney, I. W., to ACF Industries, Inc. Resilient sealed valve. 3,057,595, 10–9–62, Cl. 251—187.
McKinney, Robert S., and L. A. Goldblatt, to United States of America, Agriculture. Ammonium soaps of tung oil fatty acids as a fugitive emulsifier and sticking agent. 3,032,-447, 5–1–62, Cl. 167—42.
McKinney, Rose M. : *See*—
McKinney, Eldon O. and R. M. 3,069,890.
McKinney, Ted. Road paver. 3,041,945, 7–3–62, Cl. 94—46.
McKinney, William W., R. A. Hasty, and L. S. Noska. Pallidotomy surgical instrument. 3,055,370, 9–25–62, Cl. 128—303.
McKinnie, Roxton C. Combination chair and stool. 3,025,-101, 3–13–62, Cl. 297—56.
McKinnis, Art C., to Union Oil Co. of California. Recovery of petroleum naphthalene. 3,043,890, 7–10–62, Cl. 260—674.
McKinnis, Art C., and W. L. Wasley, to Union Oil Co. of California. Production of dibasic acids from C-8 aromatic hydrocarbons. 3,017,433, 1–16–62, Cl. 260—522.
McKinnis, Art C., and W. D. Schaeffer, to Union Oil Co. of California. Manufacture of meta- and para-phthalic acid esters. 3,027,400, 3–37–62, Cl. 260—475.
McKinnon, Columbus, Corp. : *See*—
Schreyer, Kenneth D. 3,047,125.
McKinnon, Roy A., to Thompson Ramo Wooldridge Inc. Apparatus for improved thrust cut-off. 3,070,565, 12–25–62, Cl. 260—35.6.
McKnight, David : *See*—
Striplin, Marcus M., Jr., McKnight, and Marks. 3,015,540.
McKnight, George S., Jr., and H. W. Buck, to Oxford Paper Co. Pressure-sensitive, heat-resistant recording material and method of making same. 3,015,575, 1–2–62, Cl. 117—36.7.
McKnight, George S., Jr., and G. H. Perkins, to Oxford Paper Co. Aqueous coating composition comprising water soluble polyethylenepolyaminel-dihaloalkane ureaformaldehyde reaction product and planographic paper base formed with same. 3,017,827, 1–23–62, Cl. 101—149.2.
McKnight, Harry F. : *See*—
Noble, John, and McKnight. 3,034,554.
McKnight, Robert J. : *See*—
Swezey, Edwin W., and McKnight. 3,034,637.
McKnight, Terence C., to Pye Ltd. Crystal mounts. 3,022,431, 2–20–62, Cl. 310—9.4.
McKnight, Thomas J. : *See*—
Hanstein, Walter, and McKnight. 3,062,537.
McKnight, William B. : *See*—
McClusky, Lonnie N., McKnight, and Mangus. 3,023,661.
McKnight, William B., L. N. McClusky, and G. H. Widenhofer, to United States of America, Army. Scanning mirror assembly. 3,020,414, 2–6–62, Cl. 250—235.
McKnight, William B., and D. E. Holter, to United States of America, Army. Optical scanning system. 3,054,899, 9–18–62, Cl. 250—83.3.
McKnight, William E. : *See*—
Ward, Emmett J., and McKnight. 3,069,673.
McKulla, George W., Jr., to Thos. Sommerville Co. Abrasive blasting apparatus. 3,047,986, 8–7–62, Cl. 51—8.
McKusick, Blaine C. : *See*—
Bollman, Dale C., and McKusick. 3,021,339.
McKusick, Blaine C., and J. R. Roland, to E. I. du Pont de Nemours and Co. 2-tricyanovinyl-azomethines and method of preparing them. 3,026,326, 3–20–62, Cl. 260—326.5.
McKusick, Blaine C., and R. E. Putnam, to E. I. du Pont de Nemours and Co. Homopolymer of 2,3-bis(trifluoromethyl)-1,3-butadiene and process of preparing same. 3,035,034, 5–15–62, Cl. 260—92.1.
McKusick, Blaine C., and J. R. Roland, to E. I. du Pont de Nemours and Co. Tricyanovinyl dyes and their preparation. 3,058,977, 10–16–62, Cl. 260—240.
McKuskie, Norman C. Wheel lock. 3,059,728, 10–23–62, Cl. 188—2.
McLafferty, George H., to United Aircraft Corp. Closed cycle heat engine. 3,043,118, 7–10–62, Cl. 62—402.
McLain, Charles D., to Olin Mathieson Chemical Corp. Copper base alloys. 3,039,867, 6–19–62, Cl. 75—153.
McLain, Clement J., to American Can Co. Baked dough package. 3,015,568, 1–2–62, Cl. 99—172.
McLain, Dick K. : *See*—
Gardner, Frederick P. 3,054,429.
McLain, Earl A. : *See*—
Dame, Eldred L., Drisko, and McLain. 3,021,922.
McLain, Howard A. : *See*—
Comings, Edward W., McLain, and Myers. 3,038,533.
McLain, Milton E., Jr., and M. W. Roberts, to United States of America, Atomic Energy Commission. Electrolytic separation process and apparatus. 3,024,172, 3–6–62, Cl. 204—1.5.
McLain, Robert S. and J. S. Refrigerating apparatus including a rotary condenser and evaporator. 3,025,684, 3–20–62, Cl. 62—499.
McLain, William R., to United States Steel Corp. Apparatus for cleaning open hearth furnace roof. 3,032,327, 5–1–62, Cl. 263—44.
McLain, William R., to Kusan Inc. Educational blocks. 3,049,814, 8–21–62, Cl. 35—70.
McLamore, William M. : *See*—
Holland, Gerald F., and McLamore. 3,033,902.
Lombardino, Joseph G., and McLamore. 3,055,894.
Lombardino, Joseph G., McLamore, and Laubach. 3,021,331.
Lombardino, Joseph G., McLamore, and Laubach. 3,042,-671.
Lombardino, Joseph G., McLamore, and Laubach. 3,045,-008.
McLane, Fletcher E. : *See*—
Bailey, Francis T., and McLane. 3,059,161.
McLane, Fletcher E., J. E. Pollack, and J. M. Cochran, to Westinghouse Electric Corp. Motor control apparatus. 3,023,351, 2–27–62, Cl. 318—338.
McLane, Jack S. : *See*—
McLain, Robert S. and J. S. 3,025,684.
McLane, Robert C. : *See*—
Markusen, David L., and McLane. 3,040,568.
Markusen, David L., McLane, and Pomeroy. 3,045,955.
McLane, Robert C., to Minneapolis-Honeywell Regulator Co. Aircraft instruments. 3,055,214, 9–25–62, Cl. 73—178.
McLane, Robert C., and O. R. Pomeroy, to Minneapolis-Honeywell Regulator Co. Automatic control apparatus. 3,015,459, 1–2–62, Cl. 244—77.
McLaren, Norman H., and W. T. Mitchell, to United Kingdom Atomic Energy Authority. Butterfly valves. 3,026,-083, 3–20–62, Cl. 251—173.
McLaughlin, Asa L. : *See*—
Devine, Harold A. and McLaughlin. 3,030,088.
Knill, Raymond R., McLaughlin, Priesnitz, Conder, and Haworth. 3,019,890.
McLaughlin, Asa L., F. J. Priesnitz, R. G. Haworth, W. M. Fleming, L. S. Conder, and B. L. Frost, to Potash Co. of America. Ripper type mining machine. 3,052,455, 9–4–62, Cl. 262—26.
McLaughlin, Donald J. : *See*—
Fluhr, Frederick R., and McLaughlin. 3,032,609.
McLaughlin, Donald J. Digitalized electronic incremental detector. 3,052,879, 9–4–62, Cl. 340—347.
McLaughlin, Edward G., to Westinghouse Air Brake Co. Relay energization indicator. 3,021,519, 2–13–62, Cl. 340—373.
McLaughlin, George F. Frozen milk shake mix. 3,061,443, 10–30–62, Cl. 99—137.
McLaughlin, Guy, Jr., J. L. Denlinger, and B. F. Herr, to Armstrong Cork Co. Control device. 3,057,451, 10–9–62, Cl. 198—21.

McLaughlin, Jack E. : *See*—
Anderson, Edith T., and McLaughlin. 3,044,465.
McLaughlin, James R. : *See*—
Cheifetz, Howard L., Look, and McLaughlin. 3,065,278.
McLaughlin, John H. : *See*—
Hoyet, Eugene, and McLaughlin. 3,036,410.
McLaughlin, John J., to The Wilkie Co. Cantilever telescopic conveyor. 3,068,983, 12–18–62, Cl. 193—35.
McLaughlin, John R. : *See*—
Griswold, Earle A., and McLaughlin. 3,058,468.
McLaughlin, John W. : *See*—
Haegele, Rowland W., and McLaughlin. 3,045,146.
McLaughlin, Paul J. : *See*—
Kittredge, Howard S., and McLaughlin. 3,040,630.
Rosenthal, Isadore, and McLaughlin. 3,017,290.
Sweeney, Edward J., Tou, and McLaughlin. 3,020,178.
McLaughlin, Paul J., and W. W. Toy, to Rohm & Haas Co. Wet-strength paper and method of producing same. 3,017,-291, 1–16–62, Cl. 117—119.6.
McLaughlin, Robert L. : *See*—
Miller, Lawrence O., Schick, and McLaughlin. 3,027,707.
McLaughlin, Robert L., to Socony Mobil Oil Co., Inc. Arylation of aromatics with styrenes. 3,069,478, 12–18–62, Cl. 260—649.
McLaughlin, Robert L., and J. W. Schick, to Socony Mobil Oil Co., Inc. Manufacture of dypnone. 3,023,245, 2–27–62. Cl. 260—596.
McLaughlin, Robert W. : *See*—
Barnes, Robert K., McLaughlin, and Hostettler. 3,022,256.
Barnes, Robert K., McLaughlin, and Hostettler. 3,039,-076.
McLaughlin, Thomas P. Boat construction. 3,034,472, 5–15–62, Cl. 115—14.
McLaughlin, William I. Three- and four-way sliding block valve. 3,020,927, 2–13–62, Cl. 137—622.
McLean, Arnold C. : *See*—
Shawhan, Elbert N., McLean, Palevsky, and Mather. 3,020,470.
McLean, Daniel C., to American Cyanamid Co. Catalytic oxidation of ores. 3,017,241, 1–16–62, Cl. 23—14.5.
McLean, Douglas K., to Harvest Queen Mill & Elevator Co. Internal holiday inspection and paint spray apparatus. 3,039,428, 6–19–62, Cl. 118—8.
McLean Engineering Laboratories : *See*—
Hay, Arthur D. 3,047,211.
McLean, Howard J., to General Electric Co. Ventilation of traction motors. 3,035,652, 5–22–62, Cl. 180—10.
McLean, James, to Garcy Corp. Mounting for display brackets. 3,025,971, 3–20–62, Cl. 211—176.
McLean, John O., T. L. Fritzlen, and R. H. Hendrick, to Reynolds Metals Co. Piston. 3,051,536, 8–28–62, Cl. 309—14.
McLean, Louis A. Drain shield for gutters. 3,053,393, 9–11–62, Cl. 210—474.
McLean, Murray G., S. R. Orth, and W. Doble, to Jabsco Pump Co. Pump with releasable end cover. 3,041,979, 7–3–62, Cl. 103—117.
McLean, Robert E. : *See*—
Chappell, William A., and McLean. 3,059,332.
McLean, Robert K. : *See*—
Heyl, Russell G., Jr., and McLean. 3,061,372.
McLean, William B., 50% to W. G. Finch. Vortex gas turbine. 3,045,428, 7–24–62, Cl. 60—39.75.
McLean, William M. : *See*—
Frye, Cecil, and McLean. 3,055,858.
McLean, William W. Power shutoff device for silo unloaders. 3,035,719, 5–22–62, Cl. 214—17.
McLemore, Robert B., to Minneapolis-Honeywell Regulator Co. Transmitting apparatus. 3,061,824, 10–30–62, Cl. 340—187.
McLemore, Taylor A. : *See*—
Deobald, Harold J., and McLemore. 3,046,145.
McLennan, James M. : *See*—
Craig, Archibald F., and McLennan. 3,070,133.
McLennan, Kenneth C., to Burndept Ltd. Layer type voltaic cells. 3,064,067, 11–13–62, Cl. 136—111.
McLeod, Donald W., to Burndy Corp. Cable tray accessories. 3,035,800, 5–22–62, Cl. 248—68.
McLeod, Henry G., to E. I. du nPont de Nemours and Co. Bath compositions for the chemical reductive plating of nickel-boron and cobalt-boron alloys. 3,062,666, 11–6–62, Cl. 106—1.
McLeod, James M. Fibre carding machine attachment. 3,057,020, 10–9–62, Cl. 19—113.
McLeod, Kenton C. Foldable escape ladders with adjustable rungs. 3,033,310, 5–8–62, Cl. 182—196.
McLeod, Lloyd A. : *See*—
Nikolov, Nikolai S., and McLeod. 3,069,382.
McLeod, Norman F. : *See*—
Kleiss, Louis D., and McLeod. 3,050,450.
McLeod, Norman F., to Phillips Petroleum Co. Recovery of polymers from solution. 3,024,228, 3–6–62, Cl. 260—94.9.
McLeod, Norman F., to Phillips Petroleum Co. Apparatus for pressure reduction on a flowing slurry. 3,057,696, 10–9–62, Cl. 23—260.
McLeod, Stewart B., to Dura Corp. Fluid flow control device. 3,032,059, 5–1–62, Cl. 137—513.3.
McLeod Walter M. Replacement plow share adapter. 3,070,-177, 12–25–62, Cl. 172—745.
McLerran, Archie R., to Dresser Industries, Inc. Compound drive assembly. 3,020,780, 2–13–62, Cl. 74—665.
McLerran, Archie R., and E. J. McFadden, to Dresser Industries, Inc. Liquid level control apparatus. 3,025,872, 3–20–62, Cl. 137—398.
McLhinney, William S. Adjustable spraying device. 3,047,-241, 7–31–62, Cl. 239—273.
McLimans, William F., and S. A. Schepartz, to Research Corp. Tissue culturing with arginine, citrulline or aspartic acids supplements to the media. 3,039,932, 6–19–62, Cl. 167—78.
McLoughlin, James H., to National Exhaust Purifier Co., Inc. Exhaust gas purifier and muffler. 3,043,096, 7–10–62, Cl. 60—30.
McLuen, Carl T. : *See*—
Hocutt, Morris G., and McLuen. 3,019,598.
McLyman, Kenneth A. : *See*—
Simonds, George D., Stieg, McLyman, and Larson. 3,050,963.
McMahan, Roy F., Jr., to Middletown Mfg. Co. Face-to-face plate type swivel. 3,025,116, 3–13–62, Cl. 308—227.
McMahon, George E., to Vulcan Containers Inc. Composite container. 3,045,859, 7–24–62, Cl. 220—23.
McMahon, Howard O. : *See*—
Gifford, William E., and McMahon. 3,045,436.
McMahon, Howard O., to Arthur D. Little, Inc. Electric current control circuit. 3,062,968, 11–6–62, Cl. 307—88.5.
McMahon, Howard O., and P. C. Watson, to American Viscose Corp. Elastomer bonded abrasives. 3,026,190, 3–20–62, Cl. 51—295.
McMahon, John E. : *See*—
Jex, Victor B., McMahon, and Whitehead. 3,044,845.
McMahon, John F., Jr. : *See*—
Certa, Anthony J., and McMahon, Jr. 3,069,876.
McMahon, Margaret A. : *See*—
Bartell, David P., Fricioni, and McMahon. 3,027,240.
McMahon, Thomas J. Plant growth inhibition process employing 2-chloro-6-nitrotoluene. 3,015,550, 1–2–62, Cl. 71—2.3.
McMahon, Thomas J., and V. E. Henley, to The General Tire & Rubber Co. Improved tire building machine. 3,017,919, 1–23–62, Cl. 156—400.
McMahon, Walter M., to American Pipe and Construction Co. Inorganic coating. 3,067,045, 12–4–62, Cl. 106—14.
McMahon, William H. Scaffold. 3,017,968, 1–23–62, Cl. 189—14.
McManigal, Robert M. : *See*—
Eubanks, Floyd G. 3,020,364.
McManimie, Robert J. : *See*—
Weeks, Lloyd E., and McManimie. 3,060,132.
McManimie, Robert J., H. E. Hurst, and E. H. Mottus, to Monsanto Chemical Co. Preparation and use of Ziegler catalysts wherein the catalyst components are reacted at below —25° C. 3,065,220, 11–20–62, Cl. 260—94.9.
McManis, Louis B., to Dresser Industries, Inc. Two channel phase modulation. 3,042,754, 7–3–62, Cl. 179—100.2.
McMan, Lucille L. Maternity garment. 3,054,112, 9–18–62, Cl. 2—76.
McManus, Frank C., to Anthony Co. Stabilizing mounting means for semi-trailer tilting bodies. 3,039,822, 6–19–62, Cl. 298—17.
McManus, Frank C., to Anthony Co. Fluid stabilizing means for semi-trailer tilting bodies. 3,044,832, 7–17–62, Cl. 298—17.
McManus, Joseph, Jr. : *See*—
Stine, Ira A., and McManus. 3,040,094.
McMartin, Evelyn V. Drapery measuring device and method for using same. 3,063,695, 11–13–62, Cl. 223—34.
McMartin, James I., to The Fenn Mfg. Co. Convertible rolling mill. 3,029,669, 4–17–62, Cl. 80—54.
McMaster, Archie J., to G-M Laboratories Inc. Wall-type knife sharpener. 3,034,264, 5–15–62, Cl. 51—102.
McMaster, Archie J., W. G. Lieberman, and E. O. Stastny, to G-M Laboratories, Inc. Electric motor. 3,054,005, 9–11–62, Cl. 310—43.
McMaster, Elmer L., to The Dow Chemical Co. Resinous insoluble nitrogen-containing polymers derived from vinylbenzyl chloride and vinylpyridines. 3,022,253, 2–20–62, Cl. 260—2.1.
McMaster, Elmer L., to The Dow Chemical Co. Vinylbenzylhalophenylether and polymers and method of making the same. 3,058,953, 10–16–62, Cl. 260—47.
McMaster, Elmer L., and F. B. Nagle, to The Dow Chemical Co. Self-extinguishing thermoplastic alkenyl aromatic polymer composition containing ammonium bromide, an anti corrosion agent and a di(aralkyl) peroxide and method of preparing same. 3,058,927, 10–16–62, Cl. 260—2.5.
McMaster, Harold A., and N. C. Nitschke, to Permaglass, Inc. Glass tempering furnace. 3,015,910, 1–9–62, Cl. 49—45.
McMasters, Robert A., to Southeastern Metals Co. Wire storage coil carrier. 3,021,010, 2–13–62, Cl. 211—49.
McMeen, Forrest H., B. Aston, and G. R. Stucka, to Voi-Shan Industries, Inc. Inserts for necks of hollow knobs and the like. 3,017,658, 1–23–62, Cl. 16—121.
McMichael, John D. : *See*—
McDougal, John A., and McMichael. 3,023,905.
McMichael, Ransom W. Oil burning heater for tobacco barns. 3,062,274, 11–6–62, Cl. 158—91.
McMichael, Robert G. : *See*—
Strobel, Charles K., Conner, and McMichael. 3,034,354.

McMichael, Wallace T. : *See*—
Ratliff, Otho D., and McMichael. 3,049,452.
McMillan, Elmer E. Fan attachment for rotary mower blade. 3,049,855, 8–21–62, Cl. 56—295.
McMillan, James O. Dishwasher. 3,062,226, 11–6–62, Cl. 134—112.
McMillan, Jean A. Dishwasher apparatus. 3,050,073, 8–21–62, Cl. 134—137.
McMillan, John C., to General Dynamics Corp. Combination pressure transducer. 3,033,039, 5–8–62, Cl. 73—398.
McMillan, John L. Track liner. 3,039,742, 6–19–62, Cl. 254—43.
McMillan, Robert D., Jr. : *See*—
Hardesty, Gilbert R., and McMillan. 3,055,346.
McMillan, Warner K., and J. P. Robinson. Floor scrubbing machine. 3,052,905, 9–11–62, Cl. 15—99.
McMillan, William J., and G. L. Nicholls, to The Dow Chemical Co. Production of foamable vinyl aromatic resin compositions. 3,026,274, 3–20–62, Cl. 260—2.5.
McMillan, William J., and K. R. Denslow, to The Dow Chemical Co. Foaming plastics by gas permeation. 3,066,106, 11–27–62, Cl. 260—2.5.
McMillan, William L. : *See*—
Newhouse, Vernon L., and McMillan. 3,049,695.
McMillan, William L., to International Business Machines Corp. Constant carrier parametric oscillator logic circuit. 3,065,357, 11–20–62, Cl. 307—88.
McMillan, Woodrow W. Heat pump and method of operation. 3,052,102, 9–4–62, Cl. 62—81.
McMillen, Chester K. : *See*—
Kuceski, Vincent P., and McMillen. 3,059,615.
McMillen, Richard L., F. C. Goldsmith, and J. H. Gantz, to The Lubrizol Corp. Oil-soluble calcium carbonate dispersions and method of preparation. 3,027,325, 3–27–62, Cl. 252—33.
McMillian, Lonnie S., Jr., to Radiation, Inc. Commutator utilizing only flip-flops and coincidence circuits. 3,060,328, 10–23–62, Cl. 307—88.5.
McMillin, Roy A. Portable sand blast apparatus. 3,056,-236, 10–2–62, Cl. 51—8.
McMinn, Robert E. : *See*—
Barra, Frank J., Chaple, and McMinn. 3,041,876.
McMullan, Russell R., to Phillips Petroleum Co. Catalyst reactivation in the production of hydrogen for ammonia synthesis. 3,027,237, 3–27–62, Cl. 23—199.
McMullen, Bryce H. : *See*—
Kaufman, Daniel, and McMullen. 3,031,440.
McMullen, Jacob C., to W. R. Grace & Co. Dispensing device for micro-pulverized material. 3,070,263, 12–25–62, Cl. 222—177.
McMullen, John C., and W. D. McKee, Jr., to The Carborundum Co. Method for making zirconium boride. 3,069,238, 12–18–62, Cl. 23—204.
McMullen, John J., Associates, Inc. : *See*—
Ripley, Kenneth C. 3,054,373.
McMullen, Wayne W. Slope grader attachment. 3,049,822, 8–21–62, Cl. 37—155.
McMurran, William R. : *See*—
Edwards, William R., and McMurran. 3,040,727.
McMurray, Paul A. : *See*—
Haggard, John M., and McMurray. 3,028,838.
McMurray, Paul H., and J. M. Haggard, to A. O. Smith Harvestore Products, Inc. Farrowing equipment. 3,042,-000, 7–3–62, Cl. 119—20.
McMurtrey, Atha W., Jr., to Electronics & Missiles Co. Radar system. 3,039,089, 6–12–62, Cl. 343—5.
McMurtrie, Robert, to The Dow Chemical Co. Process for conveying carbonaceous solids through conduits. 3,019,-059, 1–30–61, Cl. 302—66.
McNab, Inc. : *See*—
Estelle, Weems E. 3,065,409.
Ingram, Maxwell. 3,029,379.
McNab, John A. : *See*—
Olson, John A., and McNab. 3,053,510.
McNab, John A., deceased by E. C. Wynee, administrator to United Aircraft Corp. Involute flat tube and plate fin radiator. 3,064,947, 11–20–62, Cl. 257—235.
McNabb, Walter J., Jr., to Mac-Man Sales Co. Mattress frame suspension and control mechanism for baby cribs. 3,032,154, 5–1–62, Cl. 192—16.
McNair, Lyle W., P. E. Bjork, and O. R. Wuczkowski, to Lindberg Engineering Co. Control system for billet heaters. 3,065,324, 11–20–62, Cl. 219—10.69.
McNally, Arthur F., and W. L. White, to Collins & Aikman Corp. Fur-effect fabric and method of making same. 3,066,-380, 12–4–62, Cl. 28—72.
McNally, Howard L., to The Dow Chemical Co. Method of making light weight aggregate. 3,059,455, 10–23–62, Cl. 65—19.
McNally, James A., and J. E. Abate, to General Precision, Inc. Angular position error indicator apparatus for synchro servo systems. 3,034,059, 5–8–62, Cl. 324—158.
McNally, James J. : *See*—
Preiser, Ralph H., McNally, and Kotowski. 3,023,268.
McNally, William T. : *See*—
Smith, Thomas R., Davis, McNally, and Cochran. 3,035,-431.
McNamar, Norman M. : *See*—
Pelishek, Roy A., and McNamar. 3,023,541.
McNamara, Earl J. : *See*—
Jacobsen, John B., Christian, and McNamara. 3,049,-134.
McNamara, Francis J., to Sun Oil Co. Method for coating milk containers. 3,052,569, 9–4–62, Cl. 117—95.
McNamara, George Q. : *See*—
Criche, William J. 3,038,330.
McNamara, James E., to United States Steel Corp. Mill-roll chock with load-responsive element. 3,049,004, 8–14–62, Cl. 73—141.
McNamara, James H., to Aluminum Co. of America. Coloring oxide-coated aluminum with dye. 3,066,054, 11–27–62, Cl. 148—6.1.
McNamara, James H., M. J. Caprio, and M. A. Miller, to Aluminum Co. of America. Electrode binder pitch. 3,035,-932, 5–22–62, Cl. 106—284.
McNamara, Thomas V., to Eaton Mfg. Co. Automotive device. 3,059,743, 10–23–62, Cl. 192—53.
McNamee, Bernard F., to Dressen-Barnes Electronics Corp. Regulated power supply. 3,065,399, 11–20–62, Cl. 321—18.
McNaney, Joseph T., to General Dynamics Corp. Control apparatus. 3,027,779, 4–3–62, Cl. 74—679.
McNaney, Joseph T., to General Dynamics Corp. Cathode ray tube of display type. 3,037,135, 5–29–62, Cl. 313—70.
McNaney, Joseph T., to General Dynamics Corp. System for presenting predetermined forms and recording the desired information thereon. 3,037,202, 5–29–62, Cl. 340—324.
McNaney, Joseph T., to General Dynamics Corp. Cathode-ray tube structure. 3,047,759, 7–31–62, Cl. 313—82.
McNaney, Joseph T., to General Dynamics Corp. Cathode ray tube structure. 3,047,768, 7–31–62, Cl. 315—31.
McNaney, Joseph T., to General Dynamics Corp. Radar identification system. 3,047,858, 7–31–62, Cl. 343—6.5.
McNaney, Joseph T. Spectroelectric device. 3,047,867, 7–31–62, Cl. 346—74.
McNaney, Joseph T. Recording apparatus. 3,050,623, 8–21–62, Cl. 250—49.5.
McNaney, Joseph T., to General Dynamics Corp. Recording and projection system. 3,051,044, 8–28–62, Cl. 88—24.
McNaney, Joseph T., to General Dynamics Corp. Decoding and display system. 3,051,867, 8–28–62, Cl. 315—8.5.
McNaney, Joseph T., to General Dynamics Corp. Electro-optical device and circuitry. 3,056,031, 9–25–62, Cl. 250—213.
McNaney, Joseph T., to General Dynamics Corp. Means for influencing selectively the cross section and the horizontal and vertical position of a cathode ray electron beam. 3,066,235, 11–27–62, Cl. 313—78.
McNaney, Joseph T., to General Dynamics Corp. Electrostatic recording. 3,066,298, 11–27–62, Cl. 346—74.
McNeel, William R. Archery bow sight. 3,058,221, 10–16–62, Cl. 33—46.
McNeely, Branch M., Jr. Means for controlling directional deviations in a well bore. 3,043,381, 7–10–62, Cl. 175—73.
McNeely, Wilbur C., to The Vendo Co. Can punching and coffee brewing apparatus. 3,022,719, 2–27–62, Cl. 99—289.
McNeil, Harry D., Jr., to Hercules Powder Co. Preparation of polyesters from dialkyl terephthalates using certain cadmium compounds as catalysts. 3,057,823, 10–9–62, Cl. 260—75.
McNeil, Harry D., Jr., to Hercules Powder Co. Preparation of polyesters from dialkyl terephthalates using divalent antimonites as catalysts. 3,057,828, 10–9–62, Cl. 260—75.
McNeil Laboratories, Inc. : *See*—
Cain, Cornelius K. 3,048,588.
Marsh, David F. 3,056,726.
Poos, George I. 3,037,989.
Poos, George I., and Roszkowski. 3,028,306.
McNeil Machine & Engineering Co., The : *See*—
Kludt, Jonathan. 3,038,768.
Soderquist, Leslie E. 3,030,658.
McNeil, William J. Window sills and coverings therefor. 3,042,979, 7–10–62, Cl. 20—11.
McNeill, Albert G., to Bachmann Bros., Inc. Display for eyeglasses. 3,040,881, 6–26–62, Cl. 206—80.
McNeill, Alvin L., to Victor Development Co. Golf practice apparatus. 3,020,049, 2–6–62, Cl. 273—186.
McNeill, Frank M. Roller mop. 3,038,192, 6–12–62, Cl. 15—515.
McNeill, Frank M. Torque controlled outboard motor propeller. 3,054,457, 9–18–62, Cl. 170—160.12.
McNeill, Richard L. Paving machine. 3,016,809, 1–16–62, Cl. 94—46.
McNeill, Robert C. : *See*—
Decker, Elmer L., and McNeill. 3,045,480.
McNew, Daniel J., and E. F. Sheffield. Engine pre-oiling apparatus. 3,066,664, 12–4–62, Cl. 123—196.
McNinch, Delmar D., to Lawrence Brothers, Inc. Adjustable door hanger. 3,041,657, 7–3–62, Cl. 16—105.
McNinch, Joseph H., Jr. : *See*—
McCrory, Rollin J., Carey, and McNinch. 3,069,913.
McNulty, John V., and D. J. Wright, to General Laboratory Associates, Inc. Ignition system with transistor control. 3,045,148, 7–17–62, Cl. 315—183.
McNulty, John W., to Westinghouse Electric Corp. Method of leveling a machine mounted on a bedplate. 3,026,607, 3–27–62, Cl. 29—407.
McNulty, Joseph D. Plaster wall shrinkage and expansion control. 3,056,233, 10–2–62, Cl. 50—194.
McNutt, John : *See*—
McClure, Thomas V., and McNutt. 3,064,328.
McNutt, Louis C. Welding torch. 3,033,976, 5–8–62, Cl. 219—130.

McNutt, Robert D.: *See*—
Seabury, William A., III, and McNutt. 3,059,320.
McNutt, Robert D., to International Business Machines Corp. Method for producing extremely thin line masks. 3,036,-962, 5–29–62, Cl. 204—143.
McOrlly, Joseph, and G. E. Ammerman, to Edwin L. Wiegand Co. Electric heaters. 3,017,490, 1–16–62, Cl. 219—37.
McOsker, Don E., to The Procter & Gamble Co. Peanut composition and method of producing the same. 3,056,682, 10–2–62, Cl. 99—126.
McPeters, Arnold L., to American Enka Corp. Manufacture of viscose rayon. 3,026,170, 3–20–62, Cl. 18—54.
McPeters, Ray W.: *See*—
Brill, Joseph, Jr., and McPeters. 3,043,462.
McPhaden, Lawrence A. Closure for furniture and the like. 3,026,543, 3–27–62, Cl. 5—100.
McPhail, Shelvey C. Storm door assembly. 3,024,501, 3–13–62, Cl. 20—16.
McPhail, Shelvey C. Storm door. 3,024,837, 3–13–62, Cl. 160—91.
McPhee, Alexander H., and T. H. Reid, to Hepworth Machine Co., Inc. Probe for centrifugal. 3,019,902, 2–6–62, Cl. 210—97.
McPherson, David M., and O. D. Walker. Folding rocking chair. 3,048,440, 8–7–62, Cl. 297—33.
McPherson, Holice B.: *See*—
Baldwin, Winton B., and McPherson. 3,047,207.
McPherson, Hugh A. H. Tuned sound deadener. 3,016,971, 1–16–62, Cl. 181—33.
McPherson Instrument Corp.: *See*—
McPherson, Paul M. 3,026,435.
McPherson, Paul M., to McPherson Instrument Corp. Ultraviolet lamp. 3,026,435, 3–20–62, Cl. 313—22.
McPherson, Robert M.: *See*—
Ruscoe, William J., McPherson, and Clause. 3,052,589.
McPhilben Mfg. Co., Inc.: *See*—
Endelson, Jack. 3,036,207.
McQuade, James M., to General Electric Co. Coated metallic sheet material and method of making the same. 3,054,732, 9–18–62, Cl. 204—37.
McQuain, David B.: *See*—
Berman, Elliot, and McQuain. 3,022,318.
McQuary, Vincil W.: *See*—
Sutton, Orval L., and McQuary. 3,057,372.
McQuay, Inc.: *See*—
Aune, Albert W. 3,021,693.
Larson, Arthur G., and Raver. 3,049,895.
McQuay-Norris Mfg.: *See*—
Knoebel, Walter C. 3,055,669.
McQuay-Norris Mfg. Co.: *See*—
Knoebel, Walter C. 3,056,607.
McQueen, Malcolm M., to Telecomputing Corp. Weight of liquid responsive valve. 3,058,485, 10–16–62, Cl. 127—403.
McRae, Dougal H., and E. L. Wampler, to Rohm & Haas Co. Method of defoliating plants employing amines. 3,065,066, 11–20–62, Cl. 71—2.5.
McRae, Edwin C. Engine accessory drive. 3,026,855, 3–27–62, Cl. 121—43.
McRae, Edwin C. Anti-skid vehicle brake control. 3,066,988, 12–4–62, Cl. 303—69.
McRae, Russell C.: *See*—
Culbertson, Robert D., McRae, and Noble. 3,031,740.
McRae, Wayne A., and J. L. Eisenmann, to Diamond Alkali Co. Synthesis of unsaturated carboxylic acids. 3,024,275, 3–6–62, Cl. 260—526.
McReavy, James. Cheese manufacturing machine. 3,019,527, 2–6–62, Cl. 31—48.
McRee, Clarence E., to Columbus Construction Co. Method and apparatus for removing from submerged sites portions of previously driven piles. 3,056,267, 10–2–62, Cl. 61—53.3.
McReynolds, Andrew W., and L. J. Dijkstra, to General Dynamics Corp. Fuel element. 3,019,176, 1–30–62, Cl. 204—193.2.
McRobert, Leon R., to FMC Corp. Container loader. 3,030,-751, 4–24–62, Cl. 53—244.
McRoberts, Guy B., and N. H. Blackford. Meat cleaning machine. 3,047,892, 8–7–62, Cl. 15—3.17.
McRoberts, John: *See*—
Hansen, Kai H., Schilling, and McRoberts. 3,022,847.
McShan, Clarence H. Method and apparatus for forming bushings in parts. 3,037,547, 6–5–62, Cl. 156—423.
McShane, Herbert F., Jr.: *See*—
Bell, Richard W., Csendes, and McShane. 3,057,820.
McShane, Herbert F., Jr., and J. J. Verbanc, to E. I. du Pont de Nemours and Co. Process of preparing 4,4'-diisocyanatodiphenyl sulfides. 3,041,364, 6–26–62, Cl. 260—453.
McSherry, James H., and L. E. Smith, to Olin Mathieson Chemical Co. Thrust control system for rocket engines. 3,059,425, 10–23–62, Cl. 60—35.6.
McShirley, Robert C. Method of and apparatus for creating dental amalgam. 3,065,543, 11–27–62, Cl. 32—40.
McSpadden, Thomas W., to Pan American Petroleum Corp. Method and apparatus for completing wells. 3,050,120, 8–21–62, Cl. 166—46.
McStravick, Peter R.: *See*—
Corley, Charles B., Jr., and McStravick. 3,036,635.
Loy, Samuel E., III, McStravick, and Lindsey. 3,070,167.
McStravick, Peter R., to Jersey Production Research Co. Pumping unit for multiple wells. 3,055,228, 9–25–62, Cl. 74—108.
McStravick, Peter R., and S. E. Loy, III, to Jersey Production Research Co. Method of manipulating well tools. 3,022,822, 2–27–62, Cl. 166—4.
McTaggart, William R.: *See*—
Palmer, Dale W., and McTaggart. 3,021,137.
Voakes, William P. 3,043,600.
McTurk, William E., W. E. Litson, and G. W. Duncan, to Esso Research and Engineering Co. Motor fuel. 3,061,420, 10–30–62, Cl. 44—77.
McVetty, William S., to The Wurlitzer Co. Coin controlled phonograph. 3,063,535, 11–13–62, Cl. 194—15.
McVey, Clarence H. Pilot means for die set. 3,032,378, 5–1–62, Cl. 308—4.
McVey, Eugene S., to United States of America, Navy. Discriminator circuit to provide an output representative of the amplitude and polarity of two input signals. 3,025,414, 3–13–62, Cl. 307—88.5.
McVey, Eugene S., to United States of America, Navy. Balanced load parallel coupled transistor circuit. 3,046,488, 7–24–62, Cl. 330—30.
McVicar, James O.: *See*—
De Fezzy, Albert, and McVicar. 3,023,706.
McVicar, Thomas H., to Butler Mfg. Co. Grain aeration structure. 3,054,342, 9–18–62, Cl. 98—56.
McVicker, Robert F., to Lynch Corp. Code dater. 3,064,566, 11–20–62, Cl. 101—377.
McVethy, Irvin E., to The Murray Corp. of America. Lint filter. 3,021,224, 1–2–62, Cl. 68—18.
McWhorter, Bobby J., and D. T. Johnson, to General Dynamics Corp. Fastener clip. 3,016,591, 1–16–62, Cl. 24—81.
McWhorter, Cullen J., to Houston Oil Field Material Co., Inc. Method of and means for determining the inclination of well pipe. 3,039,544, 6–19–62, Cl. 175—45.
McWhorter, Fred A., to Bee Line Co. Wheel-balancing machine. 3,036,467, 5–29–62, Cl. 73—459.
McWhorter, Malcolm M.: *See*—
Rahrs, George S., McWhorter, and Martin. 3,022,469.
McWhorter, William B.: *See*—
Priester, Amos U., Jr., and McWhorter. 3,034,194.
McWilliam, Ian G., to Imperial Chemical Industries of Australia and New Zealand Ltd. Method and apparatus for detecting the presence of organic gases and vapours. 3,039,856, 6–19–62, Cl. 23—232.
McWilliams, Charles W., to The Bendix Corp. Servosystem. 3,034,032, 5–8–62, Cl. 318—434.
McWilliams, James B., to Railway Maintenance Corp., and Poor & Co. Track lubricator. 3,015,370, 1–2–62, Cl. 184—3.
McWilliams, Robert L.: *See*—
Friant, James E., McWilliams, and Ransom. 3,017,120.
Friant, James E., McWilliams, and Ransom. 3,059,857.
Meacham, John W., to General Electric Co. Busway power take-off plug. 3,015,795, 1–2–62, Cl. 339—14.
Meacham, Larned A., to Bell Telephone Laboratories, Inc. Wave analysis and representation. 3,021,478, 2–13–62, Cl. 324—77.
Meacham, Larned A., to Bell Telephone Laboratories, Inc. Telephone substation apparatus. 3,064,084, 11–13–62, Cl. 179—81.
Meacham, Larned A., L. Schenker, and F. West, to Bell Telephone Laboratories, Inc. Telephone system signaling. 3,067,275, 10–23–62, Cl. 179—84.
Mead, Carver A., to California Institute Research Foundation. Solid-state electron devices. 3,056,073, 9–25–62, Cl. 317—234.
Mead, Carver A., and M. L. McBrayer, to Moisture Register Co. Moisture content meter. 3,046,479, 7–24–62, Cl. 324—61.
Mead Corp., The: *See*—
Bebout, Donald R., and Shaw. 3,069,065.
Forrer, Homer W. 3,017,054.
Forrer, Homer W. 3,028,954.
Forrer, Homer W. 3,033,435.
Forrer, Homer W. 3,034,698.
Forrer, Homer W. 3,035,692.
Forrer, Homer W. 3,045,888.
Forrer, Homer W., and Wood. 3,064,877.
Gentry, Hermond G. 3,032,942.
Gentry, Hermond G. 3,064,405.
Gleim, Irvin V. 3,028,001.
Keith, Clifford H. 3,031,123.
Keith, Clifford H. 3,069,062.
Leibreich, Norman A. 3,024,763.
Leibreich, Norman A. 3,039,371.
Leibreich, Norman A. 3,057,265.
Mason, James J. 3,062,426.
Robinson, James V., and Brookbank. 3,020,176.
Rodlish, John. 3,070,397.
Wood, Prentice J. 3,064,871.
Mead, David C. De-icing insulator. 3,035,111, 5–15–62, Cl. 174—40.
Mead, Donald F., and D. V. Miller, to The Wolf Detroit Envelope Co. Apparatus for applying fasteners to envelopes. 3,069,683, 12–25–62, Cl. 1—3.
Mead, Gile A.: *See*—
Dale, Ingvald, and Mead. 3,025,057.
Mead, Gile A., to Lamb Grays Harbor Co., Inc. Spring loaded pivoted forward stop for paper stacking mechanism. 3,022,-999, 2–27–62, Cl. 271—68.

Mead, Gile A., to Lamb Grays Harbor Co., Inc. Tilting back gauge and clamp for paper cutters. 3,032,209, 5–1–62, Cl. 214—1.6.
Mead, Gile A., to Lamb Grays Harbor Co., Inc. Ream separator. 3,055,516, 9–25–62, Cl. 214—8.5.
Mead, Harold G., to Leeds and Northrup Co. Fast acting totally expendable immersion thermocouple. 3,038,951, 6–12–62, Cl. 136—4.
Mead, Harry A. Rug and carpet underlay. 3,033,723, 5–8–62, Cl. 154—49.
Mead, Harry W.: *See—*
Fentiman, William P., Ames, Morton, and Mead. 3,049,425.
Mead, Howard C., to General Motors Corp. Filament shield. 3,020,435, 2–6–62, Cl. 313—117.
Mead, Howard C., and G. W. Onksen, to General Motors Corp. Shock absorbing lamp mounting. 3,065,340, 11–20–62, Cl. 240—41.5.
Mead Johnson & Co.: *See—*
Dailey, Donald E. 3,042,257.
Grunwald, Frederick A., and Lacefield. 3,056,780.
Mead, Michael L.: *See—*
Cataldo, John B., Thomas, Mead, and Shackman. 3,048,672.
Mead, Raynor. Nursing bottle cap. 3,051,341, 8–28–62, Cl. 215—11.
Mead Specialties Co., Inc.: *See—*
Lieser, Mathias J. 3,033,512.
Lieser, Mathias J. 3,056,423.
Mead, Theodore E. Baffle for hydraulic reservoir. 3,053,233, 9–11–62, Cl. 121—38.
Mead, Thomas H., to Radio Corp. of America. Record member. 3,034,712, 5–15–62, Cl. 235—61.12.
Mead, William H. Abrasive-blasting system. 3,026,789, 3–27–62, Cl. 98—115.
Meade, Guthrie P.: *See—*
Van Doorn, Donald W., Pease, Tillery, and Meade. 3,032,830.
Meade, Lynn C.: *See—*
Knowlton, William R., and Meade. 3,026,771.
Meade, Lynn C., to Standard Mirror Co., Inc. Multi-position rear vision mirror. 3,059,539, 10–23–62, Cl. 88—77.
Meader, Malcolm S.: *See—*
Meader, Ralph I. and M. S. 3,068,826.
Meader, Ralph I. and M. S. Wire feed for soldering iron. 3,068,826, 12–18–62, Cl. 113—109.
Meador, Albert S., and C. M. Shrum, to Kent-Moore Organization, Inc. Cylinder balance tester for multicylinder internal combustion engines. 3,055,211, 9–25–62, Cl. 73—116.
Meador, Harold G., to E. I. du Pont de Nemours, and Co. Cellulose sponge. 3,057,745, 10–9–62, Cl. 106—287.
Meadors, Victor G., to Jersey Production Research Co. Enhancing petroleum oil production. 3,047,062, 7–31–62, Cl. 166—9.
Meadow, Jacob R.: *See—*
Geschickter, Charles F., and Meadow. 3,062,817.
Meadows, E. B.: *See—*
Whittier, Clyde J. 3,021,622.
Meadows, Ernest D., to Meadows Mfg. Co. Ring rail suspension. 3,022,625, 2–27–62, Cl. 57—137.
Meadows, Jim A.: *See—*
Novak, Charles, Meadows, Origer, and Robideaux. 3,032,968.
Meadows Mfg. Co.: *See—*
Meadows, Ernest D. 3,022,625.
Meagher, James E.: *See—*
Adams, Arthur H., and Perry. 3,056,418.
Meagher, William E. Trailer marker. 3,064,617, 11–20–62, Cl. 116—28.
Mealpach Corp.: *See—*
Clarke, Houghton W. 3,019,783.
Means, Charles W., and G. M. Savage, to The Upjohn Co. Process for the continuous propagation of filamentous microorganisms. 3,028,314, 4–3–62, Cl. 195—141.
Means, John W., and K. L. Moore, to Chase Bag Co. Self-sealing valves for multiwall bags. 3,065,899, 11–27–62, Cl. 229—62.5.
Means, Thomas M.: *See—*
Burroughs, Wise, and Means. 3,041,173.
Meara, William B., Jr.: *See—*
York, David S., McFadden, and Meara. 3,027,747.
Mears, Fred W., Heel Co., Inc.: *See—*
Joiner, Edgar E. 3,025,616.
Mears, Merton D., and F. G. Ort, to United States of America, Army. Anti-blast closure device. 3,059,565, 10–23–62, Cl. 98—119.
Mears, Portia A. Support for soap bars. 3,048,938, 8–14–62, Cl. 45—28.
Measurement Research Center, Inc.: *See—*
Lindquist, Everet F. 3,050,248.
Measure-Meters Co. Ltd.: *See—*
Abel, Walter. 3,017,085.
Meat Packers Equipment Co.: *See—*
Hawley, Richard A. 3,017,822.
Hawley, Richard A. 3,061,345.
Meat Separator Corp.: *See—*
Zartman, Willmar A. 3,017,661.
Mecaniques Verdol, Societe des: *See—*
Frappe, Pierre P. L. 3,055,400.
Meccanica Garelli, S.p.A.: *See—*
Soncini, William. 3,016,050.
Meccano Ltd.: *See—*
Berguerand, Claude. 3,063,194.
Meccanoptica Leonardo S.p.A., La: *See—*
Alberetti, Umberto. 3,034,402.
Vigano, Gianni. 3,025,762.
Meccanoptica S.p.A., La: *See—*
Vigano', Gianni. 3,064,530.
Mecham, Ferris J., to Sierra Engineering Co., Inc. Self clearing conveyor belt pulley. 3,055,229, 9–25–62, Cl. 74—230.
Mechanex Corp., The: *See—*
Stephens, Allen J. 3,064,982.
Mechanical Enterprises, Inc.: *See—*
Hartnett, Stephen E., and Twyford. 3,063,541.
Mechanical Excavators, Inc.: *See—*
Wilms, Carl A., and Mittry. 3,052,050.
Mechanical Handling Systems, Inc.: *See—*
Bishop, Leonard J. 3,035,683.
Bishop, Leonard J. 3,039,401.
Bishop, Leonard J. 3,049,218.
Bishop, Leonard J. 3,049,246.
Bishop, Leonard J., and Barlow. 3,019,741.
Bishop, Leonard J., and Gottschalk. Re. 25,288.
Boekemeier, Ralph. 3,068,074.
Boekemeier, Ralph. 3,068,075.
Klamp, Paul. 3,015,284.
Klamp, Paul. 3,020,854.
Klamp, Paul. 3,024,741.
Klamp, Paul. 3,045,610.
Klamp, Paul, and Kramer. Re. 25,245.
Perkins, Gerald E. 3,020,855.
Mechanical Industries Production Co.: *See—*
Dell, Saul V. 3,051,809.
Himelsbaugh, Rudolph. 3,041,443.
Mechanical Products, Inc.: *See—*
Ingwersen, Richard C. 3,056,010.
Malone, Homer F. 3,064,100.
Mechanical Research Corp.: *See—*
Cooley, Gordon A. 3,043,288.
Mechanical Tool & Engineering Co.: *See—*
Nordlof, Richard D. 3,038,645.
Mechanism Ltd.: *See—*
Grandidge, John E. 3,041,879.
Mechanisms Co.: *See—*
Roth, Jay M. 3,016,022.
Roth, Jay M. 3,065,708.
Mech-Metal Tronics, Inc.: *See—*
Hamren, Victor E. 3,051,008.
Mechron: *See—*
Berryhill, Joseph L. 3,047,675.
Snow, Robert G. 3,047,741.
Mechtronics Corp.: *See—*
Hamren, Victor E., and Glaeser. 3,030,983.
Meckenstock, John W., to Meckum Engineering, Inc. Dredge pump seal. 3,020,850, 2–13–62, Cl. 103—103.
Meckler, Louis M., III: *See—*
Gorman, Eugene F., Meckler, Nelson, and Newman. 3,033,967.
Meckley, George E.: *See—*
Stambaugh, Burnell C., and Meckley. 3,023,654.
Meckstroth, Carl R.: *See—*
Lamp, Arthur W., and Meckstroth. 3,047,166.
Meckstroth, Carl R., to General Electric Co. Apparatus for transferring lamps. 3,047,164, 7–31–62, Cl. 214—1.
Meckum Engineering, Inc.: *See—*
Meckenstock, John W. 3,020,850.
Mecom, John W.: *See—*
Barry, William R. 3,049,082.
Mec-Test Ltd.: *See—*
Walton, John H. D. 3,020,475.
Mecum, William D.: *See—*
Morton, Avery A., Littlefield, and Mecum. 3,047,543.
Mecum, William D., F. W. Smith, and R. E. Spokes, to American Brake Shoe Co. Composition comprising polyester modified phenol-formaldehyde resin and method of preparing same. 3,061,579, 10–30–62, Cl. 260—44.
Medal, Einar, to United States of America, Atomic Energy Commission. Shockproof magnetic reed switch. 3,025,371, 3–13–62, Cl. 200—87.
Medart Lockers, Inc.: *See—*
Murphy, Raymond J. 3,018,102.
Murphy, Raymond J. 3,025,104.
Murphy, Raymond J. 3,045,292.
Murphy, Raymond J. 3,069,732.
Murphy, Raymond J. 3,069,733.
Medawar, André A. Safety devices for lifting appliances. 3,021,918, 2–20–62, Cl. 182—112.
Medcalf, William E.: *See—*
Bean, Kenneth E., and Medcalf. 3,053,636.
Meddick, Lorrain D., to Borg-Warner Corp. Shaped charge unit for well perforators. 3,021,784, 2–20–62, Cl. 102—20.
Meddick, Lorrain D., to Borg-Warner Corp. Shaped charge. 3,027,838, 4–3–62, Cl. 102—24.
Meddick, Lorrain D., to Dresser Industries, Inc. Means and mode for depositing material by jet perforation. 3,054,938, 9–18–62, Cl. 102—20.
Meddings, Basil: *See—*
Burkin, Alfred R., Meddings, and Sawyer. 3,061,407.
Meddings, Basil, to Sherritt Gordon Mines Ltd. Hydrogenation catalysts for reducing reactions. 3,062,680, 11–6–62, Cl. 117—100.

Meddock, Alvin A., to The Bendix Corp. Pilot-type selector valve for hydraulic motors. 3,068,898, 12–18–62, Cl. 137—622.
Medem, Heinz.: *See*—
Gruschke, Hans, and Medem. 3,036,043.
Gruschke, Hans, and Medem. 3,057,908.
Medford, Erskin L., Jr.: *See*—
Sharp, Frank W., and Medford. 3,042,116.
Medical College of Virginia Foundation: *See*—
McKennis, Herbert, Jr., and Bowman. 3,048,520.
Medical Fabrics Co., Inc.: *See*—
Olsen, Raymond B. 3,033,201.
Medical Metals Inc.: *See*—
Gacki, Leonard W. 3,019,717.
Medick, Heinrich: *See*—
Kaufmann, Wilfried, Bauer, and Medick. 3,033,758.
Medico, Russell R.: *See*—
Keller, Edward E., and Medico. 3,059,474.
Medin, Jose. Buoyant device. 3,015,115, 1–2–62, Cl. 9—333.
Medin, Karl H. J.: *See*—
Schrewelius, Nils G., and Medin. 3,027,330.
Medin, Karl H. J., to Aktiebolaget Kanthal. Heat resisting materials and methods for their manufacture. 3,027,332, 3–27–62, Cl. 252—520.
Medina, Victor E., to Leesona Corp. Deposition of metals. 3,053,741, 9–11–62, Cl. 204—43.
Medkeff, Arthur T.: *See*—
Nye, Norman H., and Medkeff. 3,060,499.
Medi, Robert C., to The Richardson Co. Laminate and process. 3,038,826, 6–12–62, Cl. 154—43.
Medlar, Lewis A.: *See*—
Godshalk, James B., and Medlar. 3,060,375.
Medlar, Lewis A., to Fox Products Co. Battery chargers. 3,062,969, 11–6–62, Cl. 320—33.
Medley, Francis M., to United States of America, Navy. Double-diode detector. 3,054,963, 9–18–62, Cl. 329—204.
Medley, Harold C., to Xerox Corp. Xerographic powder image transfer apparatus. 3,063,351, 11–13–62, Cl. 95—1.7.
Medley, Jackson C., and D. E. Pfiederer, to Le Tourneau-Westinghouse Co. Steering mechanism. 3,049,187, 8–14–62, Cl. 180—79.2.
Medlin, Richard P.: *See*—
Hardin, Edward P., Jr., and Medlin. 3,060,116.
Medlock, Alfred A., to Safety Bath International, Inc. Shower seat. Re. 25,107, 1–2–62, Cl. 4—147.
Medoff, Joseph L.: *See*—
Galopin, Anthony, and Medoff. 3,069,663.
Medoff, Joseph L., to Avco Mfg. Corp. Analog to digital converter. 3,068,462, 12–11–62, Cl. 340—347.
Medvey, George J. Underwater breathing apparatus. 3,016,053, 1–62, Cl. 128—142.
Mee, Alec: *See*—
Andrew, Herbert F., and Mee. 3,036,058.
Andrew, Herbert F., and Mee. 3,057,846.
Meechan, Charles J.: *See*—
Harrnell, Alfred J. McCollum, and Meechan. 3,068,093.
Meehan, Arthur W. Water ski. 3,027,574, 4–3–62, Cl. 9—310.
Meehan, Inga B. Artificial eyelashes and method and apparatus for making same. 3,032,042, 5–1–62, Cl. 132—5.
Mechanite Metal Corp.: *See*—
Moore, William H. 3,042,512.
Moore, William H. 3,050,796.
Meek, Cicero P. Skin graft applicator. 3,054,404, 9–18–62, Cl. 128—260.
Meek, George W., to Lizenzia A.G. Gas and liquid contact apparatus. 3,065,956, 11–27–62, Cl. 261—29.
Meek, George W., to W.M.B. American, Inc. Structural building panel unit. 3,070,186, 12–25–62, Cl. 181—33.
Meek, Samuel W. Slip setting device for oil well elevators. 3,032,366, 5–1–62, Cl. 294—102.
Meek, Wayne L., and M. J. Hyvarinen, to Minnesota and Ontario Paper Co. Process of simultaneously producing two siding-sheathing units. 3,020,191, 2–6–62, Cl. 156—288.
Meek, William H., Jr.: *See*—
Unkefer, Gilbert G., Barrick, and Meek. 3,046,153.
Meeker, David A.: *See*—
Allen, Kenneth C., Boshinski, and Meeker. 3,057,554.
Meeker, David A., and G. B. Fox, to The Hobart Mfg. Co. Dishwashing apparatus. 3,049,391, 8–14–62, Cl. 312—272.
Meeker, Homer C.: *See*—
Marsh, Myrle O., and Meeker. 3,037,177.
Meeker, Kenneth H.: *See*—
Hudson, Robert C., Pinke, and Meeker. 3,023,969.
Meeker, Robert E.: *See*—
Dunlop, Arthur K., and Meeker. 3,053,633.
Luten, Daniel B., Jr., and Meeker. 3,053,634.
Meeker, Robert E., to Shell Oil Co. Hydrogen peroxide stabilization. 3,053,632, 9–11–62, Cl. 23—207.5.
Meeker, William H., to Hickok Mfg. Co., Inc. Safety belt buckle and inertia resistor. 3,020,612, 2–13–62, Cl. 24—170.
Meeker, William M., to Grover Smith Mfg. Corp. Fluid motor. 3,019,773, 2–6–62, Cl. 121—157.
Meekins, Marvin H.: *See*—
Baller, Maurice H., Bole, Hersh, and Meekins. 3,064,537.
Johnstone, Charles A., Hersh, Meekins, and Shiller. 3,068,755.
Meeks, Everett R. Casket cover. 3,066,379, 12–4–62, Cl. 27—19.
Meerkamper, Beat, and J. Q. Umberger, to E. I. du Pont de Nemours and Co. Photographic elements exhibiting reduced haze and method for preparation. 3,058,826, 10–16–62, Cl. 96—67.
Meermans, John W., to The Garrett Corp. Lubrication system. 3,017,230, 1–16–62, Cl. 308—187.
Mees, Robert: *See*—
Becker, Helmut, and Mees. 3,063,651.
Mees, Robert, to Ernst Leitz, Gesellschaft mit beschrankter Haftung. Loop setter for projectors. 3,057,530, 10–9–62, Cl. 226—91.
Meese, Heinz G., E. Masjoshusmann, and W. Hotop, to Deutsche Edelstahlwerke Aktiengesellschaft. Printing supports and the method of producing them. 3,027,835, 4–3–62, Cl. 101—382.
Meese, Heinz G., E. Masjoshusmann, and W. Hotop, to Deutsche Edelstahlwerke Aktiengesellschaft. Printing cylinder and a method of producing the same. 3,039,389, 6–19–62, Cl. 101—378.
Meese, Heinz-Gunter: *See*—
Hotop, Werner, Meese, Masjoshusmann, Bohle, and Ginzel. 3,039,390.
Meesen, Heinrich, to Kieler Howaldtswerke A.G. Freighter for liquid gases. 3,067,713, 12–11–62, Cl. 114—74.
Meewezen, Willem D., to North American Philips Co., Inc. Circuit of high alternating current impedance for feeding a constant direct current to a circuit. 3,056,915, 10–2–62, Cl. 322—22.
Mefco Sales and Service Corp.: *See*—
Merrill, Charles W., and Gebhardt. 3,025,702.
Mefina S.A.: *See*—
Beguin, Rene. 3,070,673.
Fresard, Marcel. 3,022,756.
Simmen, Robert. 3,039,382.
Simmen, Robert, and Morel. 3,030,887.
Megator Pumps and Compressors Ltd.: *See*—
McAulay, Robert, and Richardson. 3,018,346.
Megeff, Seymour I.: *See*—
Zambrow, John L., and Megeff. 3,020,222.
Megel, Guillaume B., and H. Mancia. Screw slotting attachment for automatic lathes. 3,036,317, 5–29–62, Cl. 10—5.
Megens, Ludovicus, and W. L. L. Lenders, to North American Philips Co., Inc. Device for endwise unwinding of delivery reels. 3,023,979, 3–6–62, Cl. 242—155.
Megerl, Alfred E., and A. L. Hawthorne, to J.M.J. Industries, Inc. Disintegrating mill. 3,047,243, 7–31–62, Cl. 241—188.
Megesi, Joseph N., to Fairco Reclaiming Service. Apparatus for recovery of silver from spent photographic solutions. 3,043,432, 7–10–62, Cl. 210—99.
Meginnis, George B.: *See*—
Clements, John A., and Meginnis. 3,029,884.
Meguerian, Garbis H., and W. F. Rumpel, to Standard Oil Co. Engine fuel test device. 3,059,467, 10–23–62, Cl. 73—61.
Megumi, Naomitsu. Slagwool refining method and apparatus. 3,055,498, 9–25–62, Cl. 209—2.
Meguro, Seitaro, T. Ozawa, T. Yasuhara, S. Sukegawa, T. Shiobara, and Y. Yoshihara, to Kanegafuchi Spinning Co., Ltd. Chewing gum base. 3,063,844, 11–13–62, Cl. 99—135.
Mehaffy, Joseph C. Adjustable door jamb. 3,044,130, 7–17–62, Cl. 20—11.
Mehagan, John G.: *See*—
Tranbarger, Glen E., Murray, Young, and Mehagan. 3,051,801.
Mehal, Edward W., to Texas Instruments Inc. Apparatus for reduction of arsenic trichloride to elemental arsenic. 3,039,755, 6–19–62, Cl. 266—19.
Mehl, John W.: *See*—
Mace, Robert C., Moore, and Mehl. 3,057,781.
Mehl, Walter L., and W. A. Reid. Engine starter apparatus for lawn mowers. 3,051,155, 8–28–62, Cl. 123—179.
Mehlenbacher, Hugh C.: *See*—
Mika, Henry S., Stiegler, Kehoe, and Mehlenbacher. 3,062,058.
Mehler, Albert J., Jr., J. R. Proffitt, Jr., and R. B. Taylor, Jr., to E. I. du Pont de Nemours and Co. Crimped textile products. 3,039,173, 6–19–62, Cl. 28—82.
Mehler, Ralph G., and J. G. Rothfuss, to Inland Steel Co. Galvanizing process. 3,056,694, 10–2–62, Cl. 117—114.
Mehlhorn, Carl E.: *See*—
Newell, Kenneth F., Crescenzo, Chase, and Mehlhorn. 3,061,989.
Newell, Kenneth F., Crescenzo, Chase, and Mehlhorn. 3,067,555.
Mehlman, Gerald J. Portable inventory apparatus. 3,070,297, 12–25–62, Cl. 235—92.
Mehlmann, Hans, to Gesellschaft fur Linde's Eismaschinen Aktiengesellschaft Zweigniederlassung Guldner-Motoren-Werke Aschaffenburg. Mast for conveyer vehicles. 3,035,663, 5–22–62, Cl. 187—9.
Mehltretter, Charles L.: *See*—
Hofreiter, Bernard T., Hamerstrand, and Mehltretter. 3,062,703.
Hofreiter, Bernard T., Hamerstrand, and Mehltretter. 3,067,088.
Otey, Felix H., Wilham, and Mehltretter. 3,046,312.
Mehr, Louis, to Wallace & Tiernan Inc. Manufacture of azo compounds. 3,017,406, 1–16–62, Cl. 260—192.
Mehta, Minoo D., and E. R. Catlin, to Beecham Research Laboratories Ltd. Derivatives of acetylenic carbinols. 3,062,870, 11–6–62, Cl. 260—482.

Mehta, Nariman B.: *See*—
Baltzly, Richard, Russell, and Mehta. 3,065,230.
Mei, Anthony J.: *See*—
Thorel, John P., Mei, and Flaton. 3,050,943.
Meichtry, Robert S. Wallpaper holding and paste applying device. 3,054,381, 9–18–62, Cl. 118—9.
Meidensha Electric Mfg. Co. Ltd.: *See*—
Oda, Soichi, and Kamura. 3,030,568.
Meienberg, Hans, to Escher Wyss Aktiengesellschaft. Vibration damping device for turbo-machine. 3,045,969, 7–24–62, Cl. 253—78.
Meier, Arthur G. Fire ignition of solid fuels. 3,062,628, 11–6–62, Cl. 44—6.
Meier, Bernhard. Temperature controlled radiator valve. 3,067,944, 12–11–62, Cl. 236—42.
Meier, Bruno, to Sulzer Freres, S.A. Device for setting a machine tool. 3,049,030, 8–14–62, Cl. 77—5.
Meier, Charles N., to The Goodyear Tire & Rubber Co. Method of curing butyl rubber in the presence of an oil. 3,031,423, 4–24–62, Cl. 260—23.7.
Meier, Claude: *See*—
Martinoli, Edoardo, and Meier. 3,059,541.
Meier, Dale J., and A. Kahn, to Shell Oil Co. New curing agents for polyepoxides and method for their preparation. 3,018,258, 1–23–62, Cl. 260—6.
Meier, Edwin H., J. J. Roark, J. D. Skelton, and G. M. Webster, to Jersey Production Research Co. Variable density seismic section printer. 3,037,186, 5–29–62, Cl. 340—15.
Meier, Günther: *See*—
Höll, Karl, Meier, and Welte. 3,070,050.
Schlosser, Erwin, and Meier. 3,066,627.
Meier, Hans: *See*—
Muller, Hugo, Meyer, and Meier. 3,036,490.
Meier, Hermann: *See*—
Jockers, Kurt, and Meier. 3,060,133.
Meier, Hermann O. Detachable screw connection for rails on concrete ties. 3,018,055, 1–23–62, Cl. 238—371.
Meier, Jean: *See*—
Allais, André, and Meier. 3,042,685.
Allais, Andre, and Meier. 3,056,727.
Meier, Johann, to E. Mettler. Analytical balance. 3,039,549, 6–19–62, Cl. 177—150.
Meier, Johann, to E. Mettler. Read-off device on a balance. 3,053,143, 9–11–62, Cl. 88—24.
Meier, John W.: *See*—
Covington, Edward R., and Meier. 3,018,197.
Covington, Edward R., and Meier. 3,057,752.
Meier, John W., to E. I. du Pont de Nemours and Co. Aqueous polymerization of vinylidene chloride and unsaturated monomer using sulfate and sulfonate salt emulsifiers. 3,058,939, 10–16–62, Cl. 260—29.6.
Meier, Karl H., to A. E. Herzer. Device for magnetic clamping. 3,017,545, 1–16–62, Cl. 317—159.
Meier, Konrad: *See*—
Druey, Jean, and Meier. 3,033,870.
Meier, Richard D., to Compo Shoe Machinery Corp. Toe lasting machines. 3,051,968, 9–4–62, Cl. 12—8.2.
Meier, Robert F.: *See*—
Morris, Harry C., and Meier. 3,019,872.
Meier, Wilber L., and D. A. Harvey, to National Radiac, Inc. Composite scintillation crystal. 3,032,657, 5–1–62, Cl. 250—71.
Meierhofer, Friedrich R. Automatic machine for applying threaded closure caps to collapsible tubes and the like. 3,035,337, 5–22–62, Cl. 29—240.
Meierhofer, Friedrich R., to Maschinenfabrik Winkler, Fallert & Co. A.G. Continuous-run for expandable chucking devices. 3,065,973, 11–27–62, Cl. 279—2.
Meier-Windhorst, August. Nozzle arrangement for drying and heat-treatment plants for web material. 3,041,739, 7–3–62, Cl. 34—156.
Meier-Windhorst, August. Apparatus for the drying of webs of material with a heated gaseous medium. 3,060,594, 10–30–62, Cl. 34—156.
Meier-Windhorst, August. Method and apparatus for storing fabric webs fed in a spread state. 3,064,914, 11–20–62, Cl. 242—55.19.
Meigel, Helmut, K. Laas, and W. Papke, to Siemens & Halske Aktiengesellschaft Berlin and Munich. Telephone system comprising selectors controlled by control devices common thereto. 3,026,376, 3–20–62, Cl. 179—18.
Meijer, Barend M., to North American Philips Co., Inc. Stator for single-phase induction motors. 3,020,428, 2–6–62, Cl. 310—172.
Meijer, Roelf J., to North American Philips Co., Inc. Speed regulator for a hot gas reciprocating machine. 3,036,427, 5–29–62, Cl. 60—24.
Meijer, Roelf J., to North American Philips Co., Inc. Hot-gas reciprocating machine. 3,050,949, 8–28–62, Cl. 62—6.
Meijer, Roelf J., and M. L. Hermans, to North American Philips Co., Inc. Cylindrical heat exchanger. 3,015,475, 1–2–62, Cl. 257—241.
Meiklejohn, Ian G. Wheeled carriers, especially golf-bag carriers. 3,043,602, 7–10–62, Cl. 280—38.
Meiklejohn, Robert F., to B S Service, Inc. Method of vertically fracturing wells. 3,066,734, 12–4–62, Cl. 166—42.
Meiler, John G. Process for producing high density hardboard. 3,021,244, 2–13–62, Cl. 156—30.
Meiler, John G., to Bowates Board Co. Method of making consolidated lignocellulose boards. 3,050,782, 8–28–62, Cl. 18—47.5.
Meiller, F. X., Fahrzeug- und Maschinenfabrik K.G.: *See*—
Sagerer, Hans. 3,029,961.
Meimberg, Julius: *See*—
Schwendt, Otto, and Meimberg. 3,047,922.
Meinas, Georg: *See*—
Habicht, Ernst, and Meinas. 3,025,996.
Meindl, Peter: *See*—
Obendorf, Werner, and Meindl. 3,042,715.
Meinel, Karl, to Wacker-Chemie G.m.b.H. Process for the preparation of acrylonitrile copolymers. 3,022,266, 2–20–62, Cl. 260—45.5.
Meinema, Herbert E., to Hammond Organ Co. Artificial reverberation control apparatus. 3,037,414, 6–5–62, Cl. 84—1.24.
Meiners, Alfred F.: *See*—
Morriss, Francis V., and Meiners. 3,061,414.
Meiners, Carl O.: *See*—
Lessing, Heinz W. and W. B., and Meiners. 3,034,538.
Meiners, Carl O., and H. W. and W. B. Lessing. Fault finders. 3,055,200, 9–25–62, Cl. 66—166.
Meiners, Henry C., to Union Oil Co. of California. Process for removing sulfur and nitrogen from a conversion feed stock with return of nitrogen to conversion product. 3,063,-933, 11–13–62, Cl. 208—89.
Meiners, Henry C., to Union Oil Co. of California. Hydrocarbon isomerization process. 3,069,349, 12–18–62, Cl. 208—85.
Meiners Optical Devices Ltd.: *See*—
Lessing, Heinz W. and W. B., and Meiners. 3,034,538.
Meinert, Norbert: *See*—
Brömer, Heinz, and Meinert. 3,043,702.
Meinhardt, Norman A., to The Lubrizol Corp. Method for preparing biphosphines. 3,065,273, 11–20–62, Cl. 260—606.5.
Meininger, Fritz: *See*—
Fuchs, Otto, Meininger, and Pfeiffer. 3,068,240.
Meinl, Rudolf: *See*—
Thier, Richard, Mayer, and Meinl. 3,061,731.
Meinzer, Roy C.: *See*—
Bayer, Robert O., and Meinzer. 3,050,846.
Meisel, Harry, to Corn Products Co. Process for sizing. 3,017,294, 1–16–62, Cl. 117—139.5.
Meisel, Harry, and J. E. Jackson, to Corn Products Co. Starch manufacturing process. 3,029,168, 4–10–62, Cl. 127—67.
Meisel, Robert: *See*—
Grafstein, Paul L., Meisel, and Panchak. 3,047,225.
Meisen, Franciscus A., to North American Philips Co., Inc. Getter holder. 3,023,883, 3–6–62, Cl. 206—4.
Meisenheimer, Anthony R., to The F. & M. Schaefer Brewing Co. Box and carrying handle therefor. 3,036,704, 5–29–62, Cl. 206—65.
Meisenheimer, Daniel T., and L. W. Syarto, to A. C. Gilbert Co. Selectively operable star finder. 3,041,742, 7–3–62, Cl. 35—43.
Meisenheimer, Daniel T., Jr., and L. W. Syarto. Piston type pressure switch having novel pressure sealing means. 3,052,777, 9–4–62, Cl. 200—83.
Meisenheimer, Robert C.: *See*—
Harvel, Loyd F., and Meisenheimer. 3,066,559.
Meiser, Werner, to Bayer Aktiengesellschaft, Farbenfabriken. 1-phenyl-2-azidocyclamino-1,3-propane diols. 3,036,094, 5–22–62, Cl. 260—349.
Meiser, Werner, S. Breitner, W. Wirth, and H. Kreiskott, to Farbenfabriken Bayer Aktiengesellschaft. Dicarbamates of disecondary 2-substituted 1,3-diols. 3,057,778, 10–9–62, 167—65.
Meisetschläger, Joe M. Case for fishing lines. 3,024,563, 3–13–62, Cl. 43—54.5.
Meissen, Wolfgang, to Siemens–Schuckertwerke Aktiengesellschaft. Pulse generator for producing periodic pulses of varying width from an alternating voltage. 3,046,414, 7–24–62, Cl. 307—88.5.
Meissinger, Hans F.: *See*—
McCoy, Rawley D., and Meissinger. 3,031,143.
Meissler, Ivan M., and L. Fazekas. Procedure and tool for the manufacture of various kinds of files and rasps. 3,016,771, 1–16–62, Cl. 76—13.
Meissner, Fritz, to J. Meissner. Mixing method. 3,053,842, 9–11–62, Cl. 260—248.5.
Meissner, Herman P.: *See*—
Old, Bruce S., Hyde, Meissner, Margolin, and Schora. 3,020,149.
Meissner, Herman P., to Arthur D. Little Inc. Iron ore reduction process in a fluidized bed. 3,031,293, 4–24–62, Cl. 75—26.
Meissner, Josef: *See*—
Meissner, Fritz. 3,053,842.
Meissner, William A., and R. W. Novak, to The Glidden Co. Spice saw. 3,053,291 9–11–62, Cl. 143—49.
Meissner, William E., to American Viscose Corp. Packaging method. 3,057,129, 10–9–62, Cl. 53—28.
Meissner, William E., L. B. Cundriff, and M. K. Barrall, to American Viscose Corp. Apparatus for making stuffed products. 3,066,461, 12–4–62, Cl. 53—177.
Meister, Albert A., to Bagcraft Corp. of America. Bag construction. 3,024,962, 3–13–62, Cl. 229—62.
Meister, Albert A., to Bagcraft Corp. of America. Bag construction. 3,035,754, 5–22–62, Cl. 229—53.
Meister, Ernst, and H. Bannach, to Rudolf Schluckebier & Co. Strapping apparatus. 3,021,781, 2–20–62, Cl. 100—8.

Meister, Erwin, to Gesellschaft der Ludw. von Roll'schen Eisenwerke AG. Fork lift trucks. 3,026,089, 3–20–62, Cl. 254—2.

Meister, Rene: *See*—
Beyner, Andre, Meister, and Hug. 3,056,253.

Meitzler, Allen H., to Bell Telephone Laboratories, Inc. Ultrasonic strip delay line. 3,041,556, 6–26–62, Cl. 333—30.

Meixner, Alfred, to Voigtlander A.G. Focal plane shutter for photographic cameras. 3,023,685, 3–6–62, Cl. 95—55.

Mekelburg, Earl F., and O. Frey, to Square D Co. Dust proof switch enclosure with switch and door interlock. 3,059,072, 10–16–62, Cl. 200—50.

Mekjean, Matthew, and C. A. Strack, to Hooker Chemical Corp. Process and salt for descaling of metals. 3,030,239, 4–17–62, Cl. 134—29.

Mekler, Dan. Hydraulically operatable hand tool. 3,058,214, 10–16–62, Cl. 30—180.

Mekota, John E., Jr.: *See*—
Dornbusch, Aaron P., and Mekota. 3,019,417.
Minnick, Robert C., and Mekota. 3,039,083.

Melamed, Sidney: *See*—
Fordyce, David B., Glavis, and Melamed. 3,023,162.

Melandri, Max M.: *See*—
Gallucci, Fabio, Gerosa, and Melandri. 3,025,317.

Melanson, Everett: *See*—
Barlow, Norman M., and Melanson. 3,049,462.

Melber, William E.: *See*—
Klover, John M., Melber, and Moore. 3,029,830.

Melbourne, Kenneth V.: *See*—
Eden, George E., and Melbourne. 3,044,300.

Melchert, Duane F.: *See*—
Young, Ray L., and Melchert. 3,064,172.

Melchiona, James V. Torsion action exerciser. 3,069,161, 12–18–62, Cl. 272—67.

Melchior, Alch, under, to Klockner-Huttenwerk Haspe AG. Regeneration system for gas fractionating devices and the like. 3,056,269, 10–2–62, Cl. 62—44.

Melchior, Frederick C.: *See*—
Little, David S., Pike, and Melchior. 3,059,477.

Melchior, Frederick C. Auxiliary indicating counter. 3,027,768, 4–3–62, Cl. 73—384.

Melchior, Frederick C. Tank gauging device. 3,048,037, 8–7–62, Cl. 73—299.

Melchior, Jan G., to Shell Oil Co. Conversion process for the production of high octane number gasoline components. 3,050,456, 8–21–62, Cl. 208—67.

Melchiore, John J.: *See*—
Blair, Edgar A., Melchiore, and Mills. 3,047,616.

Melchiore, John J., to Sun Oil Co. Preparation of naphthalene carboxylic acid anhydrides. 3,045,045, 7–17–62, Cl. 260—346.

Melchiore, John J., to Sun Oil Co. Cobalt oxidation catalyst. 3,055,839, 9–25–62, Cl. 252—431.

Melchiors, Horst, and G. Witte, to Kuppers Metallwerk G.m.b.H. Soldering method and composition. 3,065,538, 11–27–62, Cl. 29—496.

Melchor, Jack L.: *See*—
Ayres, Wesley P., Melchor, and Vartanian. 3,059,108.

Meldrum, Harold L.: *See*—
Wiley, Leo E., and Meldrum. 3,031,707.

Mele, Joseph J., to American Drill Bushing Co. Ceramic coated bushings and allied products. 3,048,061, 8–7–62, Cl. 77—62.

Meletiou, Frances T. Bed pan holder. 3,054,115, 9–18–62, Cl. 4—1.

Meletti, Adolph: *See*—
Tamarin, Bernard J., and Meletti. 3,056,995.

Melges, Frederick J. Disposable obstetrical and/or surgical cover means. 3,030,957, 4–24–62, Cl. 128—292.

Melges, Frederick J. Fertility testing apparatus. 3,037,496, 6–5–62, Cl. 128—2.

Melges, Frederick J. Disposable surgical legging. 3,037,507, 6–5–62, Cl. 128—292.

Meli, Joseph P., J. E. Wright, Jr., K. B. Kittle, and R. W. Simpson, to Atwood Vacuum Machine Co. Push-button transmission selector. 3,068,717, 12–18–62, Cl. 74—483.

Melill, Joseph T., and S. Salmassy, to North American Aviation, Inc. Method for improving the physical properties of semi-austenitic stainless steels. 3,061,487, 10–30–62, Cl. 148—143.

Melka, Aktiebolaget: *See*—
Tiefenthal, Rolf E., and Bergehall. 3,062,354.

Mell-Hoffmann Mfg. Co.: *See*—
Lencioni, Julius J. 3,042,350.

Mellan, Ibert, to Polychrome Corp. Diazo condensation polymers. 3,050,502, 8–21–62, Cl. 260—72.5.

Mellberg, Frank W., to Bell & Howell Co. Zoom lens. 3,059,533, 10–23–62, Cl. 88—57.

Mellencamp, Robert E., to General Motors Corp. Rotary display device. 3,045,971, 7–24–62, Cl. 254—87.

Mellin, Bror G., to Fulton Iron Works Co. Mill housing. 3,049,074, 8–14–62, Cl. 100—162.

Mellinger, Harry: *See*—
Hendry, George, and Mellinger. 3,026,972.

Mellinger, Jerry E.: *See*—
Alspach, Hardin S., Gamble, Hampshire, Mellinger, and Musch. 3,044,117.

Mellinger, John C., to The Maytag Co. Automatic dry control for combination washer-drier. 3,048,027, 8–7–62, Cl. 68—12.

Mellinger, John C., and P. A. Martin, to The Maytag Co. Washer-drier condenser system. 3,040,440, 6–26–62, Cl. 34—75.

Melliott, Robert N.: *See*—
Scarbrough, Alfred D., and Melliott. 3,043,965.

Mellon, Charles A.: *See*—
Thomas, Howard M., and Mellon. 3,042,173.

Mellon National Bank and Trust Co.: *See*—
Baker, Benjamin P. 3,066,823.
Yeckley, Russell N., Sucha, Baker, and Mellon National Bank and Trust Co. 3,057,983.

Mellor, Robert H., to M-C Instrument Corp. Potentiometer. 3,054,077, 9–11–62, Cl. 338—175.

Mellott Arrow Crest, Inc.: *See*—
Schlensker, Hugo J. H., and Mellott. 3,051,124.

Mellott, Frank M., ½ to J. A. Dingus. Rotary pump. 3,044,408, 7–17–62, Cl. 103—103.

Mellott, Jacob R.: *See*—
Schlensker, Hugo J. H., and Mellott. 3,051,124.

Mellott, Robert N., to Thompson Ramo Wooldridge Inc. Computer magnetic drum writing circuits. 3,037,200, 5–29–62, Cl. 340—174.1.

Melloy, George F., and D. E. Wise, to Bethlehem Steel Co. Hardened steel roll and composition therefor. 3,060,016, 10–23–62, Cl. 75—126.

Mellyn, Charles W.: *See*—
Cederstrom, Curtiss M., and Mellyn. 3,016,230.

Melmed, Arthur S., R. T. Shevlin, and R. Lauphelmer, to United States of America, Atomic Energy Commission. Diode stored magnetic-core memory. 3,054,989, 9–18–62, Cl. 340—174.

Melnick, Daniel: *See*—
Akerboom, Jack, Melnick, and Perry. 3,038,810.

Melnick, Daniel, to Corn Products Co. Process for preserving baked products. 3,021,219, 2–13–62, Cl. 99—90.

Melnick, Daniel, H. W. Vahlteich, and R. T. Bohn, to Corn Products Co. Yeast-raised baked products and method of making the same. 3,065,080, 11–20–62, Cl. 99—90.

Melnick, Daniel, G. A. Perry, and R. L. Lawrence, to Corn Products Co. Preservation of poultry. 3,065,084, 11–20–62, Cl. 99—194.

Melone, Drury P., to United States of America, Navy. Wing latch assembly. 3,034,614, 5–15–62, Cl. 189—36.

Meloy, Arthur S.: *See*—
Oehlschlager, George A., Meloy, and Van Ness. 3,041,008.

Melpar, Inc.: *See*—
Asten, William P. Re. 25,258.
Jones, Roger C., and Lowrey. 3,067,420.
Smith, Blanchard D., Jr. 3,043,514.
Taynton, Ralph. 3,016,540.
Tuller, William G. 3,038,069.
Varela, Arthur A. 3,044,060.
Williams, Richard E. 3,019,975.

Melrose, Richard E., to The Clorox Co. Method of rendering glass bottles dripless and article produced thereby. 3,047,417, 7–31–62, Cl. 117—37.

Melroy, David O., to Bell Telephone Laboratories, Inc. Traveling wave tube. 3,045,145, 7–17–62, Cl. 315—3.5.

Melsert, Hans, to North American Philips Co., Inc. Method of manufacturing nickel supports for oxide cathodes and cathodes provided with such supports. 3,056,061, 9–25–62, Cl. 313—346.

Melsom, Walter A., to Bowden (Engineers) Ltd. Flexible hose coupling with clamp for hose braid. 3,064,999, 11–20–62, Cl. 285—149.

Meltendorf, Kurt: *See*—
Butenuth, Gunter, and Meltendorf. 3,039,852.

Melton, Donald F., to General Mills, Inc. Controlled motion crane. 3,043,444, 7–10–62, Cl. 212—20.

Melton, Donald F., to General Mills, Inc. Vehicle-mounted manipulator. 3,043,448, 7–10–62, Cl. 214—1.

Melton, Donald F., and T. R. James, to General Mills, Inc. Drive means for remote control manipulator. 3,033,059, 5–8–62, Cl. 74—801.

Melton Garage and Engineering Co., Ltd.: *See*—
Johnson, Arthur T. V. 3,058,092.

Melton, James O., and T. B. Wilkinson, to Jamco, Inc. Steering mechanism idler arm assembly. 3,031,202, 4–24–62, Cl. 280—93.

Melton, James O., and T. B. Wilkinson, to Jamco, Inc. Pivoted member bearing and assembly. 3,055,688, 9–25–62, Cl. 287—93.

Melton, Manning M. Scissors handle construction. 3,066,412, 12–4–62, Cl. 30—257.

Melton, Thomas M.: *See*—
Boyer, William P., Mangham, and Melton. 3,027,348.

Melton, Thomas M., to Virginia-Carolina Chemical Corp. Phosphonium phosphates. 3,050,543, 8–21–62, Cl. 260—461.

Meltzer, Jacques: *See*—
Huisman, Henderikus O., and Meltzer. 3,027,298.
Uhlenbroek, Jan H., and Meltzer. 3,054,719.

Meltzer, Robert I., R. J. Stanaback, and W. B. Lutz, to Warner-Lambert Pharmaceutical Co. Process of preparing triiodinated analogs of thyronine. 3,046,306, 7–24–62, Cl. 260—519.

Meltzer, Robert J.: *See*—
Lewis, Robert E., and Meltzer. 3,060,806.

Meltzer, Robert J., to Bausch & Lomb Inc. Refractometer. 3,019,694, 2–6–62, Cl. 88—14.

Meltzer, Robert J., to Bausch & Lomb Inc. Die wear microscope. 3,023,663, 3–6–62, Cl. 88—14.

Meltzer, Robert J., to Bausch & Lomb Inc. Illuminating arrangement for optical devices. 3,064,523, 11–20–62, Cl. 88—24.
Meltzer, Theodore H.: *See*—
Dermody, William F., and Meltzer. 3,062,760.
Melvin, Donald K.: *See*—
Faulkner, Alfred H., and Melvin. 3,015,699.
Faulkner, Alfred H., and Melvin. 3,070,665.
Melvin, Donald K., to Automatic Electric Laboratories, Inc. Electronic communication system. 3,033,935, 5–8–62, Cl. 179—18.
Melzer, Jean H. Method of producing hollow sheet-metal panel structures. 3,046,638, 7–31–62, Cl. 29—155.
Melzer, Manfred, to Losenbauswerk, Dusseldorfer Maschinenbau, G. Hydraulic load-testing apparatus. 3,048,033, 8–7–62, Cl. 73—88.
Memain, Jean E. L. E. Dispensing paper holders. 3,026,009, 3–20–62, Cl. 225—52.
Membranfiltergesellschaft G.m.b.H.: *See*—
Maier, Karl H. 3,026,571.
Membrabe, Hermann. Composite container for shipping and packaging. 3,029,008, 4–10–62, Cl. 229—14.
Memco Machinery Corp.: *See*—
Dunn, Maurice B. 3,029,712.
Dunn, Maurice B. 3,053,529.
Memmingen KG Ing. Theodor Otto, Maschinenfabrik: *See*—
Ruf, Josef. 3,043,527.
Menard, Albert R.: *See*—
Lockwood, George H., and Menard. 3,035,378.
Menard, Henri: *See*—
Frager, Michel, and Menard. 3,029,741.
Menasco Mfg. Co.: *See*—
Kendall, Giles A. 3,053,526.
Kendall, Giles A. 3,067,841.
Stewart, Alford K., and Keech. 3,047,343.
Menasha Container of California Division of Menasha Wooden Ware Corp.: *See*—
Davis, Warren F. 3,017,064.
Mena y Vieyra de Abreu, José. Priming apparatus for detonating underwater explosive charges. 3,031,963, 5–1–62, Cl. 102—14.
Mench, John W., J. Emerson, and M. E. Rowley, to Eastman Kodak Co. Method of preparing cellulose esters of trimellitic acid. 3,022,287, 2–20–62, Cl. 60—224.
Mendelsohn, Bernard E. Window structure. 3,021,895, 2–20–62, Cl. 160—90.
Mendelsohn, Harold: *See*—
Smith, Leland L., Foell, and Mendelsohn. 3,050,558.
Smith, Leland L., Mendelsohn, and Goodman. 3,063,989.
Mendelsohn, Meyer: *See*—
Horowitz, Carl, and Mendelsohn. 3,022,367.
Horowitz, Carl, and Mendelsohn. 3,050,467.
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Mendelsohn, Robert A.: *See*—
Henny, Willi, Savonuzzi, and Mendelsohn. 3,038,697.
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Mendelson, Myron J., and C. A. Krause, to United Aircraft Corp. Digital comparator for binary-coded decimal system. 3,035,770, 5–22–62, Cl. 235—177.
Mendenhall, Harold L., and S. D. Elliott, to Phillips Petroleum Co. Seismic exploration. 3,040,833, 6–26–62, Cl. 181—.5.
Mendes, Clarence. Air brake booster. 3,015,318, 1–2–62, Cl. 121—48.
Mendes Da Costa, Andre: *See*—
Hine, Christian, and Mendes Da Costa. 3,035,929.
Mendez, Alfredo. Booster for refrigerating systems. 3,035,423, 5–22–62, Cl. 62—513.
Mendez, Boabdil, and R. A. Velez. Drive control and steering mechanism. 3,055,445, 9–25–62, Cl. 180—6.7.
Mendoza, Lorenzo E., and R. J. de los Rios. Portable television system. 3,037,072, 5–29–62, Cl. 178—5.8.
Menefee, Granger B. Refrigeration and dispensing of containers of matter and issuing a refund for empty containers. 3,039,583, 6–19–62, Cl. 194—4.
Menefee, Horace B.: *See*—
Brown, Carl L., Myers, Kinsey, and Menefee. 3,050,614.
Menegoz, Charles D., to Pechiney, Compagnie de Produits Chimiques et Electrometallurgiques. Process for the recovery of aluminum from aluminum-aluminum carbide mixtures. 3,068,092, 12–11–62, Cl. 75—68.
Meneley, Carl A., to United States of America, Navy. Radiant energy follower system. 3,064,255, 11–13–62, Cl. 343—117.
Menell, Hans: *See*—
Niclas, Walter, and Menell. 3,016,084.
Mener, Edward C.: *See*—
Byrnes, Peter A., Jr., Davis, and Mener. 3,048,690.
Meneses, Hector A.: *See*—
Hare, Milton D., and Meneses. 3,037,409.
Mengele, Karl, & Sohne: *See*—
Niederreither, Johann. 3,020,828.
Menges, Charles H.: *See*—
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Menhennett, Gerald H., to International Telephone and Telegraph Corp. Radial resonant cavities. 3,066,267, 11–27–62, Cl. 333—83.
Menke, Benjamin J. Template for mortising doors and jambs for application of hinges. 3,035,618, 5–22–62, Cl. 144—27.
Menke, Frederick L.: *See*—
Lang, Robert J., Schimmenti, and Menke. 3,023,623.
Menkel, Gary G., to Design Center, Inc. Feeding apparatus and method. 3,051,361, 8–28–62, Cl. 226—6.
Menkel, Kurt, to Sobel Metal Products Inc. Brassiere frame. 3,035,584, 5–22–62, Cl. 128—476.
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Mennen, Frederick C., to American Home Products Corp. Container cover. 3,054,680, 9–18–62, Cl. 99—171.
Mennesson, Joseph R. Retrieving device for submerged articles. 3,049,733, 8–21–62, Cl. 9—9.
Mennesson, Andre L., to Societe d'Applications et de Constructions pour Materiel Automobile (S.A.C.M.A.) Apparatus for machining a piece of work by means of an erosive fluid. 3,043,362, 7–10–62, Cl. 156—345.
Mennesson, Andre L., to Societe Industrielle de Brevets et d'Etudes S.I.B.E. Pressure reducing devices in particular for carburation systems. 3,061,286, 10–30–62, Cl. 261—36.
Mennesson, Bernard R., to Societe d'Appareils de Controle et d'Equipment des Moteurs S.A.C.E.M. Apparatus for automatically centering wire spoke wheels. 3,024,834, 3–13–62, Cl. 157—1.5.
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Hollar, Arthur W., and Mennone. 3,033,510.
Menolasino, Dominic: *See*—
Menolasino, Nicholas J., and Belcove. 3,032,179.
Menolasino, Nicholas J. and D. 3,031,819.
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Menolasino, Nicholas J. and D., ¼ to A. S. Belcove, and ¼ to S. Santow. Dispenser mechanism. 3,031,819, 5–1–62, Cl. 53—237.
Menolasino, Nicholas J., and A. S. Belcove, ¼ to S. Santow, and ¼ to D. Menolasino. Disc dispenser package. 3,032,179, 5–1–62, Cl. 206—56.
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Menster, Gilbert F., to The McKay Machine Co. Apparatus for cleaning and processing metal strip. 3,020,624, 2–13–62, Cl. 29—81.
Mentag, Robert G.: *See*—
Dodd, Frederick G. 3,053,066.
Menter, Albion R., and W. C. Newcomb. Protective covering for bovine teeth and process of applying same. 3,046,657, 7–31–62, Cl. 32—12.
Mentha, John W.: *See*—
Phillips, Arthur P., and Mentha. 3,046,301.
Mentley, Max B., to National Broach & Machine Co. Work supporting arbor. 3,068,619, 12–18–62, Cl. 51—237.
Menzel, Donald H., and T. Gold. Method of seismic exploration and apparatus therefor. 3,034,594, 5–15–62, Cl. 181—.5.
Menzel, Karl. Sheet washing machine. 3,016,729, 1–16–62, Cl. 68—183.
Menzel, Karl-Heinz, O. Wahl, and W. Pelz, to Agfa Aktiengesellschaft. Pyrazolino benzimidazole color coupler. 3,061,432, 10–30–62, Cl. 96—55.
Menzel, Wolfgang A., to United States of America, Navy. Damping coefficient measuring instrument. 3,016,736, 1–16–62, Cl. 73—71.4.
Menzie, Gerald W., to Lonn Mfg. Co., Inc. Proportioning apparatus. 3,060,956, 10–30–62, Cl. 137—205.5.
Menziken, Maschinen A.G.: *See*—
Kaiser, Lothar. 3,061,189.
Menzimer, Lisle W.: *See*—
Allen, Edwin L., and de Vito. 3,027,185.
De Vito, Angelo R. 3,027,184.
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Pickles, Joseph. 3,065,013.
Meohas, Isaac R. Disposable razor with blade spacing means. 3,052,023, 9–4–62, Cl. 30—53.
Meopta, norodni podnik: *See*—
Chytil, Slavomíf. 3,031,120.
Matulík, Josef, Rychlý, and Punčochář. 3,063,354.
Mercantile Metals, Inc.: *See*—
Voinovich, Sweeney. 3,046,220.
Mercantile National Bank of Chicago: *See*—
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Mercer, Edward K.: *See*—
Scott, Dale K., and Mercer. 3,028,991.
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Mercer, John L., and J. J. Brunner. Engine starter. 3,070,-081, 12–25–62, Cl. 123—179.
Mercer, Orville H., to Midwest Pressure Casting Co., Inc. Method and means for drying plaster molds. 3,052,987, 9–11–62, Cl. 34—21.
Mercer, Robert L.: *See*—
Abresch, Carel F., and Mercer. 3,044,842.
Jacobs, James W., and Mercer. 3,024,074.
Mercer, Robert L., to General Motors Corp. Dishwasher having a dispenser. 3,019,802, 2–6–62, Cl. 134—95.
Mercer, Sam B. Disposable lens shield. 3,033,359, 5–8–62, Cl. 206—47.
Mercer, William R., and K. Dollinger, to Sanders Associates, Inc. Electronic velocity indicator apparatus. 3,045,232, 7–17–62, Cl. 343—8.
Merchant, Charles J., to The A. C. Gilbert Co. Astronomical instrument equatorial mount therefor. 3,052,986, 9–11–62, Cl. 33—61.
Merchant, Chester O., to Swanson-Erie Corp. Straight line indexing machine with chain tightener and drive release. 3,039,597, 6–19–62, Cl. 198—208.
Merchant, Chester O., to Swanson-Erie Corp. Cement dispensing apparatus. 3,048,205, 8–7–62, Cl. 141—141.
Merchant, Chester O., and D. L. Swanson, to Swanson-Erie Corp. Multiple motion processing machine. 3,065,530, 11–27–62, Cl. 29—428.
Merchant, Charles J., to H. W. Giles. Chord-playing keyboard musical instrument. 3,028,780, 4–10–62, Cl. 84—404.
Mercier, Carl E., to McGraw-Edison Co. Electrical contacts. 3,070,770, 12–25–62, Cl. 339—64.
Mercier, Henri: *See*—
Soudan, Paul, and Mercier. 3,053,512.
Mercier, Henri, and G. Brun, to Pechiney, Compagnie de Produits Chimiques et Electrometallurgiques. Bearing for rotatable shaft. 3,020,098, 2–6–62, Cl. 308—36.3.
Mercier, Jean, to Pechiney, Compagnie de Produits Chimiques et Electrometallurgiques. Construction and operation of electric tilting furnaces. 3,035,106, 5–15–62, Cl. 13—10.
Mercier, Jean. Resiliently controlled valve. 3,066,700, 12–4–62, Cl. 138—30.
Mercier, Maurice. Fluid-tight packing for floating-roof-type hydrocarbon tanks. 3,054,526, 9–18–62, Cl. 220—26.
Mercier, Philip L., and L. T. Eby, to Esso Research and Engineering Co. Polypropylene stabilized with di-tert.-octyl tri- and tetra-sulfides. 3,056,759, 10–2–62, Cl. 260—41.
Mercier, Pierre. Streamlined body propulsion system. 3,066,-893, 12–4–62, Cl. 244—73.
Mercier, Robert M. Means ensuring contact between gasiform fluids and liquids. 3,018,843, 1–30–62, Cl. 183—2.5.
Mercil Plating Equipment Co.: *See*—
Neilson, Elmer O. 3,058,902.
Merck & Co., Inc.: *See*—
Arth, Glen E., Beyler, and Sarett. 3,054,811.
Arth, Glen E., Beyler, and Sarett. 3,068,250.
Arth, Glen E., and Fried. 3,046,094.
Arth, Glen E., and Sarett. 3,039,528.
Barkemeyer, Henry R., Lachier, and Pollak. 3,063,871.
Baumgarten, Werner and Johnson. 3,042,587.
Bicking, John B. 3,066,137.
Bolhofer, William A. 3,027,406.
Bolhofer, William A. 3,031,481.
Brown, Horace D. 3,068,214.
Brown, Horace D., and Sarett. 3,055,907.
Chamberlin, Earl M., and Chemerda. 3,016,377.
Chemerda, John M., and Hirschmann. 3,068,243.
Chemerda, John M., Tristram, and Hinkley. 3,053,866.
Cipelli, Francesco. 3,062,896.
Clark, Robert L., and Rogers. 3,060,183.
Clark, Robert L., and Rogers. 3,060,184.
Clayton, William B. 3,060,943.
Conbere, John P., and Pfister. 3,068,223.
Conn, John B. 3,055,962.
Conn, John B., and Magee. 3,065,048.
Cutler, Frank A., Jr., and Chemerda. 3,067,195.
Demain, Arnold L., and Somerson. 3,024,169.
Downing, George V., Jr. 3,043,840.
Engelhardt, Edward L. 3,046,283.
Folkers, Karl, and Wolf. 3,026,330.
Folkers, Karl, and Wolf. 3,064,012.
Folkers, Karl A., Hoffman, and Wolf. 3,068,295.
Folkers, Karl A., and Woodruff. 3,066,080.
Foster, Jackson W. 3,032,474.
Fried, John, and Bry. 3,046,273.
Garber, John D. 3,049,552.
Garber, John D., and Jones. 3,055,914.
Garber, John D., Jones, and Reynolds. 3,025,307.
Hammes, Paul A. 3,051,579.
Hanus, Edward J., and Rizzo. 3,035,982.
Hirschmann, Ralph F. 3,049,556.
Hirschmann, Ralph F. 3,051,738.
Hirschmann, Ralph F., and Basso. 3,065,255.
Hoff, Dale R., and Korntved. 3,047,596.
Merck & Co., Inc.: *See*—Continued
Hoffsommer, Robert D., Jr., Taub, and Wendler. 3,028,-398.
Humphreys, Thomas W., and Titus. 3,034,896.
Jacob, Theodore A. and Trenner. 3,019,087.
Jones, Robert E., and Lange. 3,066,150.
Jones, Robert E., and Wasserman. 3,065,251.
Jones, William H., and Novello. 3,025,292.
Kollonitsch, Janos, 3,065,259.
Kollonitsch, Janos, and Weinstock. 3,053,835.
Long, Robert A. 3,018,225.
Lyons, Hubert W., and Goll. 3,052,340.
Matzuk, Alexander R., Brown, and Sarett. 3,067,097.
Miller, Ina M. 3,049,476.
Mullins, John D., and Macek. 3,070,499.
Mullins, John D., and Macek. 3,070,501.
Novello, Frederick C. 3,019,245.
Novello, Frederick C. 3,050,553.
Novello, Frederick C. 3,060,206.
Novello, Frederick C. 3,064,006.
Novello, Frederick C. 3,066,157.
Oberster, Arthur E., Beyler, and Sarett. 3,067,214.
Patchett, Arthur A. 3,058,976.
Pollak, Peter I. 3,024,244.
Pollak, Peter I. 3,024,245.
Rogers, Edward F., and Clark. 3,030,364.
Rogers, Edward F., and Clark. 3,030,365.
Rogers, Edward F., and Clark. 3,042,675.
Rogers, Edward F., and Clark. 3,042,677.
Rogers, Edward F., and Pessolano. 3,037,909.
Rogers, Edward F., and Sarett. 3,020,200.
Rogers, Edward F., and Sarett. 3,020,277.
Rogers, Edward F., and Sarett. 3,042,676.
Rogers, Edward F., and Sarett. 3,065,132.
Rothrock, John W., and Putter. 3,032,547.
Sarett, Lewis H., and Brown. 3,017,415.
Schultz, Everett M., and Cragoe. 3,042,714.
Shen, Tsung Y., Rogers, and Sarett. 3,031,452.
Siegel, Malcolm, Palombe, and Baumgarten. 3,042,586.
Siegel, Sheldon, Pettebone, and Hanus. 3,070,503.
Siegel, Sheldon, Pettebone, and Hanus. 3,070,508.
Sletzinger, Meyer. 3,049,548.
Sletzinger, Meyer, and Gaines. 3,046,300.
Sletzinger, Meyer, Reinhold, and Karady. 3,068,228.
Sletzinger, Meyer, and Tishler. 3,067,200.
Spencer, Claude, and Walton. 3,049,550.
Spicer, Daniel S., Smith, and Sanders. 3,038,838.
Sprague, James M. 3,047,580.
Sprague, James M., and Cragoe. 3,027,381.
Sprague, James M., and Cragoe. 3,064,051.
Stammer, Charles H., and Miller. 3,049,475.
Stoudt, Thomas H. 3,016,376.
Stoyle, Lewis E., Jr., Ouellette, and Hanus. 3,035,985.
Stoyle, Lewis E., Jr., Ouellette, and Hanus. 3,037,911.
Taub, David. 3,053,933.
Taub, David, and Wendler. 3,056,813.
Taub, David, and Wendler. 3,068,224.
Taub, David, Wendler, and Hoffsommer. 3,068,226.
Taub, David, Wendler, and Slates. 3,053,865.
Tishler, Max, Steinberg, and Hirschmann. 3,067,193.
Tishler, Max, Steinberg, and Hirschmann. 3,067,194.
Utne, Torleif, Jones, and Gardner. 3,070,633.
Wagner, Arthur F. 3,057,876.
Wagner, Arthur F. 3,068,265.
Wallick, Hyman. 3,049,534.
Walton, Edward, and Spencer. 3,049,551.
Wasserman, David, and Jones. 3,069,444.
Weinstock, Leonard M. 3,068,253.
Wendler, Norman L., and Taub. 3,065,239.
Wittreich, Paul E., Folkers, and Robinson. 3,056,777.
Zambito, Arthur J., and Macek. 3,028,308.
Ziegler, Carl. 3,060,178.
Ziegler, Carl. 3,066,156.
Merck, E., Aktiengesellschaft: *See*—
Bork, Karl-Heinz, Brückner, Mannhardt, and Von Werder. 3,064,015.
Jacobi, Ernst, and Bremer. 3,042,580.
Jacobi, Ernst, and Erdmann. 3,042,579.
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Jacobi, Ernst, Van Schoor, and Hahn. 3,030,381.
Merck, William A.: *See*—
Lehti, Henry J., Merck, and Rhodes. 3,030,623.
Merck, William A., M. W. Olson, and T. J. Rhodes, to United States Rubber Co. Method for making blown rubber. 3,029,476, 4–17–62, Cl. 18—59.
Merck, William A., and T. J. Rhodes, to United States Rubber Co. Apparatus for continuously producing braided elastomeric hose. 3,038,523, 6–12–62, Cl. 156—393.
Merckling, Nicholas G.: *See*—
Anderson, Arthur W., Bruce, Merckling, and Truett. 3,050,471.
Balthis, Joseph H., Jr., Gresham, and Merckling. 3,038,-863.
Gresham, William F., and Merckling. 3,026,269.
Gresham, William F., and Merckling. 3,047,513.
Truett, William L., and Merckling. 3,063,979.
Merckling, Noelle K.: *See*—
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Zernov, Peter. 3,022,727.

Merdinyan, Philip H.: *See*—
Hanson, Eric P., Merdinyan, and Milligan. 3,064,739.
Meredith, Dennis L. Plural channel servo systems. 3,054,-039. 9–11–62, Cl. 318—489.
Meredith, Frederick W., and A. M. A. Majendie. Aircraft instruments. 3,018,661, 1–30–62, Cl. 73—178.
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Meredith, Pat. Fishing line brake for spinning reels. 3,045,-380, 7–24–62, Cl. 43—25.
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Early, Harold C., and Dutton. 3,027,791.
Parrish, J Russell and Cocks. 3,029,730.
Merfeld, Kurt W., to Kunrather and Merfeld. Clip device. 3,042,984, 7–10–62, Cl. 24—87.
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Abbott, William B. 3,028,948.
Abbott, William B. 3,040,876.
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Abbott, William B., and Klepper. 3,069,000.
Corrado, Victor M., and Donahue. 3,061,182.
Debus, Karl. 3,020,999.
Davidson, William W., Jr., Dell, Dykaar, and Marlin. 3,048,099.
Donahue, Robert J., and Applebaum. 3,056,545.
Eerde, John. 3,050,392.
Hilpman, Paul, and Milanese. 3,024,895.
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Hilpman, Paul, and Post. 3,048,261.
Klepper, Herbert, and Abbott. 3,068,998.
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Heine, Wolfgang F., and Meri. 3,019,396.
Westerfeld, Ralph, and Meri. 3,019,302.
Merian, Ernest, B. J. R. Nicolaus, and W. Wehrli. Process for dyeing polyethylene terephthalate of fiber-wool blend. 3,027,220, 3–27–62, Cl. 8—21.
Merian, Ernest, and C. Mueller, to Sandoz Ltd. Process of dyeing and printing polyethylene glycol terephthalate fibers with disperse dyestuffs. 3,042,478, 7–3–62, Cl. 8—55.
Merian, Ernest, O. Senn, and W. Wehrli, to Sandoz A.G. Monoazo dyestuffs of low solubility in water. 3,050,516, 8–21–62, Cl. 260—205.
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Burkhard, Mahlon D., and Sabine. 3,069,955.
Dinsfold, Albert A. 3,018,681.
Merigold, Peter A., to Rank Precision Industries Ltd. trading as Taylor, Taylor & Hobson. Inverted telephoto objectives. 3,033,082, 5–8–62, Cl. 88—57.
Merila, John B. Match holder and dispenser. 3,042,190, 7–3–62, Cl. 206—20.
Merino, Peter J. Reversible zipper. 3,047,925, 8–7–62, Cl. 24—205.14.
Merit Associates, Inc.: *See*—
Bedick, Robert. 3,020,560.
Merit Co., The: *See*—
Harrell, George L. 3,025,624.
Merit Products, Inc.: *See*—
Block, Aleck. 3,058,269.
Eversole, John E. 3,032,931.
Nelson, Robert M. 3,048,950.
Meriwether, Lewis S.: *See*—
Lewis, William, and Meriwether. 3,054,775.
Meriwether, Lewis S., and M. L. Fiene, to American Cyanamid Co. Nickel-carbonyl-organophosphines. 3,032,573, 5–1–62, Cl. 260—439.
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Merkel, Karl, and A. Palm, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of cyanuric acid. 3,051,-708, 8–28–62, Cl. 260—248.
Merkel, Stephen L., to Lorain Products Corp. Telephone signaling frequencies generator. 3,059,061, 10–16–62, Cl. 179—84.
Merker, Robert L., to Dow Corning Corp. Cyclic silethylene-siloxanes and polymers thereof. 3,041,362, 6–26–62, Cl. 260—448.2.
Merker, Robert L., to Dow Corning Corp. Silalkyltin compounds. 3,043,858, 7–10–62, Cl. 260—429.7.
Merker, Robert L., and W. A. Piccoli, to Dow Corning Corp. Silethylenesiloxane copolymers. 3,041,363, 6–26–62, Cl. 260—448.2.
Merki, Hermann, to Ruti Machinery Works Ltd. Braking device for thread for an automatic loom. 3,067,778, 12–11–62, Cl. 139—257.
Merkin, Eugene, to United States of America, Navy. Jet-stream speller. 3,018,691, 1–30–62, Cl. 89—1.5.
Merkl, Walter A., and H. P. Wasshausen, to United States of America, Army. Device for treating piezoelectric crystals. 3,027,689, 4–3–62, Cl. 51—58.
Merkle, George H.: *See*—
Woodard, George W., and Merkle. 3,058,520.
Merkle, Ralph H., to General Motors Corp. Diaphragm pump. 3,027,848, 4–3–62, Cl. 103—150.
Merkle, Raymond F., to Twin Tone Tap Co., Inc. Dancing tap. 3,052,995, 9–11–62, Cl. 36—8.3.
Merkle, Stephen L., to Lorain Products Corp. Direct current to alternating current converter. 3,065,429, 11–20–62, Cl. 330—26.
Merkt, Harry C.: *See*—
Maiashevitz, Alex J., and Merkt. 3,033,823.
Merl, Kurt, and M. Setrin; said Merl assor. to Sperry Rand Corp., Ford Instrument Co. Division. Variation of high speed redundancy check generator. 3,025,508, 3–13–62, Cl. 340—345.
Merla Tool Corp.: *See*—
Dudley, William A. Re. 25,292.
Merlen, Monty M., to Barnes Engineering Co. Horizon sensor. 3,020,407, 2–6–62, Cl. 250—83.3.
Merlen, Monty M., to Barnes Engineering Co. Azimuth transfer system. 3,021,749, 2–20–62, Cl. 88—1.
Merlin Tool Corp.: *See*—
Primmer, Elliot M. 3,059,903.
Merlub-Sobel, Menahem, to Curtiss-Wright Corp. Molecular cermets and method of making the same. 3,067,047, 12–4–62, Cl. 106—55.
Merlyn, John W., and R. N. Tuttle, to Shell Oil Co. Gas-lifting wells. 3,054,358, 9–18–62, Cl. 103—232.
Merwin, Edwin H., to Sperry Rand Corp., Ford Instrument Co. Division. Compensated integrator. 3,051,009, 8–28–62, Cl. 74—198.
Mero, Peter G. S.: *See*—
Adler, Robert, and Anthony. 3,038,960.
Anthony, Myron L. 3,024,419.
Mero, Peter G. S. Recording device. 3,016,419, 1–9–62, Cl. 178—18.
Mero, Peter G. S. Recording device. 3,016,420, 1–9–62, Cl. 178—18.
Mero, Peter G. S. Recording devices. 3,031,209, 4–24–62, Cl. 281—11.
Merrell, Richard L.: *See*—
Steinhagen, William K., and Merrell. 3,068,881.
Merriam, Frank R., Jr.: *See*—
Burby, Robert W., and Merriam. 3,028,514.
Burby, Robert W., and Merriam. 3,041,488.
Merriam, Frank R., Jr., to Ford Motor Co. Starter motor. 3,062,966, 11–6–62, Cl. 290—38.
Merriam, Frederic C., and R. A. Whitmore, to United Shoe Machinery Corp. Preparation of hide fiber. 3,063,892, 11–13–62, Cl. 162—2.
Merrick, Jim I. Clamp. 3,056,600, 10–2–62, Cl. 269—32.
Merrick, Richard H.: *See*—
English, Richard A., and Merrick. 3,038,320.
Merrick, Richard H., to Carrier Corp. Absorption refrigeration system. 3,037,361, 6–5–62, Cl. 62—101.
Merrick, Richard H., to Carrier Corp. Absorption refrigeration system. 3,038,321, 6–12–62, Cl. 62—495.
Merrigan, Denis F. Steam adaptor sterilizer and vapourizing unit. 3,066,362, 12–4–62, Cl. 21—94.
Merrill, Allen R.: *See*—
Stamps, William E., Merrill, and Livingston. 3,044,251.
Merrill, Bennett W., to New Castle Products, Inc. Frame structure for foldable closures. 3,062,277, 11–6–62, Cl. 160—84.
Merrill, Bennett W., C. O. Fields, and H. P. Zimmerman, to New Castle Products, Inc. Folding door structure. 3,040,-806, 6–26–62, Cl. 160—199.
Merrill Bros.: *See*—
Gardner, Edward M., and Kopp. 3,019,929.
Merrill, Charles W., and A. A. Gebhardt, to Mefco Sales and Service Corp. Auxiliary hoist control. 3,025,702, 3–20–62, Cl. 73—143.
Merrill, Edward W.: *See*—
Giles, Cary S., and Merrill. 3,043,739.
Merrill, Jacob M.: *See*—
Erickson, Edward B., Jacobsen, Giusti, Merrill, and Smith. 3,053,400.
Merrill, John B., and A. Macovski, to Radio Corp. of America. Transistor signal amplifier circuit. 3,054,067, 9–11–62, Cl. 330—15.
Merrill, Leland H. Capsule finishing and inspecting machine. 3,024,582, 3–13–62, Cl. 53—78.
Merrill, Marcellus S., and L. H. Erickson; said Erickson assor. to said Merrill. Apparatus for balancing rotating bodies. 3,049,927, 8–21–62, Cl. 73—475.
Merrill, Richard E.: *See*—
Raphael, Thomas, Merrill, and Webb. 3,062,699.
Merrill, Richard E., and T. Raphael, to Arthur D. Little, Inc. Reinforced resin sheet. 3,039,913, 6–19–62, Cl. 162—136.
Merrill, William K. Waste material disposal tank. 3,040,-333, 6–26–62, Cl. 4—8.

Merrimac Research and Development Corp.: *See*—
Oliner, Arthur A. 3,022,470.
Merriman Bros., Inc.: *See*—
Wayson, Andrew J. 3,043,085.
Wayson, Andrew J., and Bucchianeri. 3,045,417.
Merriman, Henry H. Fluid expansion unit. 3,016,884, 1–16–62, Cl. 121—48.
Merriman, Henry H. Testing apparatus for anchors. 3,024,-647, 3–13–62, Cl. 73—141.
Merriner, Delbert L.: *See*—
Landsverk, Ole G., Glodenis, and Merriner. 3,047,748.
Merrit Bird Feeder Co.: *See*—
Merritt, Willie M., and Forth. 3,051,126.
Merritt, A Jay: *See*—
Freeman, Louis, Merritt, and Eigen. 3,068,148.
Merritt, Henry B., to Philip Morris, Inc. Tobacco composition. 3,061,479, 10–30–62, Cl. 131—17.
Merritt, Robert E. Transfer applying apparatus. 3,021,251, 2–13–62, Cl. 156—542.
Merritt, Thomas W., and C. A. Thomas, to Babson Bros. Co. Milk pipeline support. 3,015,306, 1–2–62, Cl. 119—14.03.
Merritt, Trevor, to International Standard Electric Corp. Lay plate for electric cable. 3,044,244, 7–17–62, Cl. 57—13.
Merritt, Will D., Jr., to General Electric Co. Process for the alkylation of halogenosilanes. 3,065,253, 11–20–62, Cl. 260—448.2.
Merritt, Willie M., and F. F. Forth, to Merrit Bird Feeder Co. Bird feeders. 3,051,126, 8–28–62, Cl. 119—52.
Merrow Machine Co., The: *See*—
Armstead, George E., Jr. 3,067,706.
Washburn, John M. 3,018,745.
Merrow Sales Corp.: *See*—
Wennstrom, John A. 3,034,460.
Merry, Albert B., and P. F. Hastings. Snow remover. 3,043,-028, 7–10–62, Cl. 37—43.
Mersek, Leo D.: *See*—
Ehlert, William A., and Mersek. 3,017,016.
Mersereau, Robert E.: *See*—
Schmeck, Robert E., and Mersereau. 3,066,789.
Mersereau, Robert E., and A. A. Capanna, to Pitney-Bowes, Inc. Document handling apparatus. 3,069,157, 12–18–62, Cl. 271—28.
Mershon, Ralph F., and W. J. Opocensky, to General Precision Inc. Sine-cosine integrator. 3,030,012, 4–17–62, Cl. 235—61.
Merta, Hugo: *See*—
Lejk, Joseph R., and Merta. 3,017,071.
Merten, Eugen, to Shell Development Co. Photographic printing apparatus for seismic and other records. Re. 25,160, 4–17–62, Cl. 95—73.
Merten, Eugen, to Shell Oil Co. Seismic exploration. 3,046,-889, 7–31–62, Cl. 102—24.
Merten, Rudolf: *See*—
Windemuth, Erwin, and Merten. 3,054,755.
Merten, Rudolf, to Farbenfabriken Bayer Aktiengesellschaft, and Mobay Chemical Co. Stabilized prepolymers. 3,027,-390, 3–27–62, Cl. 260—471.
Merten, Rudolf, G. Loew, and O. Bayer, to Bayer Aktiengesellschaft, Farbenfabriken. Polyurethane plastics. 3,047,540, 7–31–62, Cl. 260—77.5.
Merten, Rudolf, and G. Loew, to Bayer Aktiengesellschaft, Farbenfabriken. Polyurethane plastics. 3,055,845, 9–25–62, Cl. 260—2.5.
Merten, Rudolf, H. von Brachel, H. Holtschmidt, and G. Hauptmann, to Farbenfabriken Bayer Aktiengesellschaft. Preparation of cellular polyurethane palstics. 3,070,556, 12–25–62, Cl. 260—2.5.
Merten, Ulrich, to General Dynamics Corp. Production of zirconium hydride. 3,070,526, 12–25–62, Cl. 204—154.2.
Mertens, Edward W.: *See*—
Wright, James R., and Mertens. 3,052,639.
Wright, James R., and Mertens. 3,062,829.
Mertens, Edward W., and J. R. Wright, to California Research Corp. Cationic bituminous emulsions. 3,026,266, 3–20–62, Cl. 252—311.5.
Mertens, Heinrich: *See*—
Gehm, Robert, Schmidt, and Mertens. 3,051,704.
Mertens, Howard R. to Acme Steel Co. Strap guide. 3,031,-816, 5–1–62, Cl. 53—198.
Mertes, Thomas S., and T. J. Kelly, to Sun Oil Co. Process for lowering the brittle point of solid heptane-insoluble polypropylene. 3,043,793, 7–10–62, Cl. 260—33.6.
Mertler, Charles S., to Stevens Mfg. Co., Inc. Thermal-sensing unit. 3,042,783, 7–3–62, Cl. 219—37.
Merton, Robert R., and C. T. Blood, to Alginate Industries Ltd. Alginic compounds. 3,067,743, 12–11–62, Cl. 128—270.
Mertz, Allen: *See*—
Bennett, Sedgwick R., and Mertz. 3,058,499.
Mertz, Ralph F., to Miehle-Goss-Dexter, Inc. Oven stripper. 3,051,296, 8–28–62, Cl. 198—134.
Mertzweiller, Joseph K.: *See*—
Langer, Arthur W., Jr., Mertzweiller, Gamble, and Tornqvist. 3,063,798.
Merwin, Frederick H., to Milford Rivet and Machine Co. Machine for drilling rivets. 3,030,827, 4–24–62, Cl. 77—22.
Merwin, Robert F. Magnetic separator with magnetic rubber element. 3,042,205, 7–3–62, Cl. 209—218.
Merwin, Walter J.: *See*—
Ferlin, Henry J., Brady, and Merwin. 3,051,551.
Merz, Gerhard: *See*—
Steinbuch, Karl, Braun, and Merz. 3,053,936.
Merz, Gerhard, and S. Ulmer, to International Standard Electric Corp. Method for the reading-in and the reading-out of informations contained in a ferrite-core storage matrix. 3,066,281, 11–27–62, Cl. 340—174.
Merz, Paul L., to United States Rubber Co. Preparation of nitrodiphenyl-amines by catalyzed condensation. 3,055,940, 9–25–62, Cl. 260—576.
Merz, Rudolf, to Crosman Arms Co., Inc. Gas cartridge. 3,039,646, 6–19–62, Cl. 220—27.
Merz, Rudolf, to Crosman Arms Co., Inc. Gas-powered gun. 3,067,730, 12–11–62, Cl. 124—51.
Merz, Rudolf, and W. R. Malcolm, to Crosman Arms Co., Inc. Gas powered gun. 3,056,395, 10–2–62, Cl. 124—11.
Merzhanian, Artemi A.: *See*—
Agaballanz, Georgui G., Merzhanian, and Broosilovski. 3,062,656.
Merzoni, Sergio: *See*—
Chiusoli, Gian P., and Merzoni. 3,032,583.
Mescher, Harold E., and W. E. Heyer, to Pacific Scientific Co. Brazing or heat treating furnace. 3,035,819, 5–22–62, Cl. 257—303.
Mescher, Harold E., and S. O. Rosensson, to Pacific Scientific Co. Load handling apparatus. 3,066,971, 12–4–62, Cl. 294—83.
Meschi, David J.: *See*—
Searcy, Alan W., and Meschi. 3,031,294.
Meschino, William G.: *See*—
Perdreaux, Rene, Jr., and Meschino. 3,054,352.
Meselsimer, Lee O., to Lorain Products Corp. Voltage modifier. 3,015,771, 1–2–62, Cl. 321—15.
Meserve, Forrest C., to Micro Machinery Products, Inc. Tire slitting or siping machine. 3,039,520, 6–19–62, Cl. 157—13.
Mesh, Theodore J., to Gilbert & Barker Mfg. Co. Electronic level sensing servosystem. 3,062,994, 11–6–62, Cl. 318—31.
Meshberg, Philip. Metering valve. 3,018,928, 1–30–62, Cl. 222—335.
Meshberg, Philip. Metering valve assembly. 3,055,560, 9–25–62, Cl. 222—394.
Mesich, Paul. Micrometer. 3,046,666, 7–31–62, Cl. 33—164.
Mesinger, Robert H. Golf club head cover. 3,051,210, 8–28–62, Cl. 150—52.
Meslier, Raoul A. P.: *See*—
Verdier-Dufour, Jean F. M., Meslier, and Thiery. 3,059,-672.
Mesnager, Jacques J. E. Roofing arrangement. 3,035,373, 5–22–62, Cl. 50—12.
Mess, Richard C.: *See*—
Coron, Ira, and Mess. 3,066,850.
Messa, Daniele. Device for tying two ends of thread by the so-called barrel knot. 3,028,185, 4–3–62, Cl. 289—2.
Messelt, Stephen J., to The Perkin-Elmer Corp. Fire detection apparatus. 3,017,513, 1–16–62, Cl. 250—83.3.
Messen-Jaschin, G.A.: *See*—
Mayer, Friedrich. 3,028,714.
Messenger, Charles B. Process of constructing a concrete support structure. 3,040,411, 6–26–62, Cl. 25—155.
Messer, Elmer S.: *See*—
Horwitz, Louis B., and Messer. 3,038,656.
Messer, Wanda E. Flower holders. 3,069,808, 12–25–62, Cl. 47—41.
Messerli, Walter. Electrical connector for rotary drum. 3,058,082, 10–9–62, Cl. 339—8.
Messerschmitt AG: *See*—
Langfelder, Helmut F. 3,063,241.
Messerschmitt, Willy. 3,065,936.
Messerschmitt, Willy, to Messerschmitt AG. Aircraft having a power unit for the generation of lift for vertical take-off. 3,065,936, 11–27–62, Cl. 244—23.
Messier, Albert P., to Cabot Corp. Process for mixing polyethene, carbon black and an organic peroxide. 3,028,354, 4–3–62, Cl. 260—41.
Messina, Giuseppe: *See*—
Muench, Werner, Notarbartolo, and Messina. 3,017,394.
Messina, Giuseppe, N. De Pisapia, L. Spano, and E. Condorelli, to L. R.C. Laboratori Italiani di Ricerca Chimica. Process for making itaconic acid esters. 3,056,829, 10–2–62, Cl. 260—485.
Messing, Ralph A.: *See*—
Bloch, Alfred, and Messing. 3,019,171.
Messinger, Harry. Dissolved water analyzer. 3,037,374, 6–5–62, Cl. 73—53.
Messinger, Lester H., to E. I. du Pont de Nemours and Co. Fabric-finishing apparatus. 3,064,459, 11–20–62, Cl. 68—175.
Messmer, Donald D. Fishing tackle box. 3,050,356, 8–21–62, Cl. 312—201.
Messmer, Edwin E.: *See*—
Sylvester, John D., and Messmer. 3,021,947.
Messmer, Richard E.: *See*—
Cross, Radley. 3,065,310.
Messmore, Jack W. Pilotage computer. 3,028,076, 4–3–62, Cl. 235—61.
Messner, Daryle: *See*—
Daniels, John W., Messner, and Sparling. 3,039,037.
Messner, Georg, to Oronzio de Nora Impianti Elettiochimici. Mercury cathode electrolytic cell. 3,068,165, 12–11–62, Cl. 204—219.
Messrs. A/S Lumino Feed Co.: *See*—
Ehlert, Heinrich M. 3,041,174.

Messrs. Trumpf & Co.: *See*—
Leibinger, Berthold. 3,025,600.
Mestdagh, Jerome J.: *See*—
Freedman, Bernard, and Mestdagh. 3,050,797.
Mestre, Auguste F., to International Business Machines Corp.
Plural gated pulse generators controlled by common feedback path. 3,021,484, 2–13–62, Cl. 328—63.
Met, Victor O.: *See*—
Forrer, Max P., and Met. 3,046,497.
Metabowerk Closs, Rauch & Schnizler K.G., Firma: *See*—
Wrobbel, Werner. 3,018,591.
Metachemical Processes Ltd.: *See*—
Hughes, Herbert D., Lewis, and Partridge. 3,026,365.
Metal Box Co. Ltd., The: *See*—
Barlow, Robert. 3,040,429.
Geeson, Robert E. 3,065,719.
Mosse, Richard W. E. 3,031,812.
Mosse, Richard W. E., Cookson, Virgo, and Miles. 3,058,277.
Oxborrow, Bernard H. 3,020,691.
Oxborrow, Bernard H. 3,062,105.
Powell, Dan, and Allsopp. 3,056,447.
Simpson, Alfred M. 3,063,348.
Stuchbery, Arthur L. 3,021,125.
Stuchbery, Arthur L. 3,041,718.
Whitbourn, Kenneth J. 3,038,200.
Metal Buildings, Inc.: *See*—
Johnson, William R., and West. 3,054,481.
Metal Chlorides Corp.: *See*—
Irani, Meherwan. 3,058,817.
Mikulski, Richard R. 3,063,850.
Metal Coating Corp.: *See*—
Taylor, Stephen M. 3,030,891.
Metal Containers Ltd.: *See*—
Post, Willem P. 3,062,262.
Metal Edge Industries: *See*—
Flynn, William. 3,025,769.
Metal Film Co., Inc.: *See*—
Scharf, Walter G. 3,069,746.
Metal Frame Aquarium Co.: *See*—
Arnould, Marcel M. 3,018,758.
Metal Hydrides Inc.: *See*—
Kollonitsch, Janos, and Bragdon. 3,063,791.
Metal Processing Co., Inc.: *See*—
Gostin, Ernest L., and Swan. 3,032,436.
Metal Pumping Services, Inc.: *See*—
Sweeney, Victor D., and Kaji. 3,048,384.
Metal Specialties Mfg. Co.: *See*—
Semler, Loren H., and Nyberg. 3,015,161.
Metal Textile Corp.: *See*—
Cohen, Albert H., and Goodloe. 3,032,849.
Goodloe, Alfred M. 3,033,722.
Metal & Thermit Corp.: *See*—
Leebrick, John R. 3,032,571.
Mack, Gerry P. 3,069,394.
Mack, Gerry P. 3,069,447.
Myers, Curtis B., and Coffeen. 3,022,929.
Passal, Frank. 3,020,282.
Passal, Frank, and Hartman. 3,041,255.
Ramsden, Hugh E. 3,041,323.
Ramsden, Hugh E. 3,066,013.
Ramsden, Hugh E. 3,066,170.
Metal Skin Corp.: *See*—
Steinberg, David J. 3,054,708.
Metalastik Ltd.: *See*—
Caunt, Alan. 3,067,596.
Hirst, Archie J. 3,020,856.
Hirst, Archie J. 3,028,665.
Hirst, Archie J. 3,045,998.
Hirst, Archie J. 3,062,072.
Horovitz, Marcus. 3,020,738.
Metalem S.A.: *See*—
Schneider, Hans, and Feller. 3,047,942.
Metalcraft Products Co., Inc.: *See*—
Chester, Charles R. 3,058,611.
Metallgesellschaft Aktiengesellschaft: *See*—
Boss, Karl-Heinz, Rausch, and Meyer. 3,020,147.
Ebner, Karl. 3,058,806.
Herbert, Wilhelm, Gross, and Dorschner. 3,069,249.
Kratz, Alfred J. P. 3,017,247.
Meyer, Kurt, Rausch, and Koch. 3,034,884.
Nagel, Horst, and Veith. 3,038,712.
Rausch, Hans, and Meyer. 3,042,390.
Schaefer, Bruno, Michels, Meyer, and Rausch. 3,027,251.
Schmalfeld, Paul. 3,056,248.
Schytil, Franz. 3,043,652.
Schytil, Franz, Reb, Saccardo, and Dal Pozzo. 3,057,680.
Weittenhiller, Hellmuth, Bieger, Schoß, Herbert, Dorschner, and Gross. 3,069,250.
Wiemer, Jean. 3,033,918.
Wiemer, Jean, and Müller. 3,029,578.
Wiemer, Jean, and Muller. 3,049,849.
Metallized Carbon Co., Inc.: *See*—
Scott, Martin. 3,048,453.
Metallurgical Development Co.: *See*—
Davey, Thomas R. A. 3,031,296.
Lumsden, John. 3,017,261.
Metallurgical Processes Ltd.: *See*—
Davey, Thomas R. A. 3,031,296.
Lumsden, John. 3,017,261.
Metallurgical Resources, Inc.: *See*—
Summers, Gerald C., and Mills. 3,016,515.
Metallurgie Francaise des Poudres, La: *See*—
Cartier, Jean, and Le Boulch. 3,034,178.
Eudier, Michel. 3,037,242.
Metallurgique d'Imphy, Societe: *See*—
Cherreau, Andre G., Girard, and Maingault. 3,045,335.
Josso, Emile R. A. 3,052,576.
Metallurgique Liotard Freres, Societe: *See*—
Verdier-Dufour, Jean F. M., Meslier, and Thiery. 3,059,672.
Metallwerk Bahre K.G.: *See*—
Mund, Heinrich. 3,055,597.
Metallwerk Glockerau G.m.b.H.: *See*—
Andres, Eduard. 3,052,173.
Metallwerke Refonda, Wiederkehr & Co.: *See*—
Businger, Arthur. 3,037,711.
Metaltex, Inc.: *See*—
Niederman, Daniel. 3,032,642.
Metalwash Machinery Co.: *See*—
Nolte, Robert K. 3,056,414.
Stanly, Henry J. 3,018,847.
Metamora Woodworking Co.: *See*—
Wilson, Vernon H. 3,015,532.
Metaverpa, N.V.: *See*—
Van de Bilt, Pieter A. 3,060,839.
Van de Bilt, Pieter A. 3,060,840.
Van de Bilt, Pieter A. 3,060,841.
Metcalf, Albert T., Jr.: *See*—
Erickson, Bruce G., Metcalf, and Schuster. 3,016,690.
Metcalf, Emerson D., to The Borden Co. Method and apparatus for making hose. 3,018,755, 1–30–62, Cl. 118—125.
Metcalf, Eric: *See*—
Smith, Alfred J., and Metcalf. 3,030,053.
Metcalf, Herbert E., to United States of America, Atomic Energy Commission. Neutronic reactor power plant. 3,070,530, 12–25–62, Cl. 204—193.2.
Metcalf, Hugh E.: *See*—
Andrew, Norman K., and Metcalf. 3,051,245.
Metcalfe, Arthur G., and S. A. Spachner, to Armour Research Foundation of Illinois, Institute of Technology. Method of making fine-grain chromium. 3,037,272, 6–5–62, Cl. 29—420.5.
Metcalfe, Frederick S., to Westinghouse Electric Corp. Air conditioning apparatus. 3,030,873, 4–24–62, Cl. 98—94.
Metcalfe, Frederick S., to Westinghouse Electric Corp. Filter retaining structure. 3,058,279, 10–16–62, Cl. 55—495.
Metcalfe, Kenneth A., and R. J. Wright, to The Commonwealth of Australia, care of the Secretary, The Department of Supply. Controlled tone development for electrophotography. 3,032,432, 5–1–62, Cl. 117—37.
Metcalfe, Kenneth A., and R. J. Wright, to The Commonwealth of Australia, care of the Secretary, Department of Supply. Method of processing the image in xerography. 3,038,799, 6–12–62, Cl. 96—1.
Metcalfe, Kenneth A., and R. J. Wright, to The Commonwealth of Australia. Non-inflammable liquid developers for electrostatic images. 3,058,914, 10–16–62, Cl. 252—62.1.
Metcalfe, Lincoln D., and M. A. Mitz, to Armour and Co. Production of quaternary ammonium compounds. 3,024,283, 3–6–62, Cl. 260—567.6.
Metco Inc.: *See*—
Shepard, Arthur P. 3,055,591.
Metevia, Virgil L., to Dow Corning Corp. Composition comprising a polysiloxane resin, silica filler, a hydroxylated siloxane and a boron compound. 3,070,560, 12–25–62, Cl. 260—29.1.
Meth, Eugene: *See*—
Newhouse, Frank J., and Meth. 3,021,659.
Meth, Irving M., to Radio Corp. of America. Frequency-modulation detector circuit. 3,030,585, 4–17–62, Cl. 329—103.
Methema Corp Reg. Trust: *See*—
Kuhlenkamp, Alfred. 3,024,536.
Methling, Carl B.: *See*—
Jones, John P., Scott, and Methling. 3,040,541.
Methode Electronics, Inc.: *See*—
Schweitzer, Erich, and Brown. 3,040,291.
Metivier, Jean, to Societe des Usines Chimiques Rhone-Poulenc. Aromatic ethers. 3,029,277, 4–10–62, Cl. 260—
Metivier, Jean, and L. Julou, to Usines Chimiques Rhone-Poulenc, Societe des. Growth accelerating compositions. 3,038,806, 6–12–62, Cl. 99—2.
Metoder, B. T., Aktiebolaget: *See*—
Trobeck, Karl G., Tirado, and Lenz. 3,028,295.
Metriframe Structures Ltd.: *See*—
Grabowski, Edward W. 3,019,866.
Metro, Stephen J.: *See*—
Clarke, John V., Jr., Metro, and Smith. 3,068,084.
Craven, William J., Metro, and Matuszak. 3,019,188.
Matuszak, Alfred H., and Metro. 3,058,911.
Matuszak, Alfred H., Metro, and Schwarz. 3,029,204.
Metro-Atlantic, Inc.: *See*—
Buonanno, Joseph E., and Shore. 3,046,185.
King, Joseph C. 3,034,850.
Metroform Co.: *See*—
Artigalas, Frank, and Rickman. 3,057,269.
Metrolog Corp.: *See*—
De Mott, Dale H. 3,026,473.
Metropolis Bending Co.: *See*—
Chase, Ralph S., and Park. 3,055,722.
Metropolitan Brick, Inc.: *See*—
Renkert, Donald H., and Schreiber. 3,059,304.

Metropolitan-Vickers Electrical Co. Ltd. : *See*—
Atkinson, George G., and Shand. 3,027,544.
Consterdine, Edward W. 3,045,136.
Gasson, Denys B. 3,034,012.
Kenyon, Harold F. 3,021,496.
Pearce, Frederick M. 3,017,542.
Pearce, Frederick M., and Hodgkiss. 3,019,372.
Pearce, Kenneth M. 3,028,461.
Petrie, Douglas P. R., and Hunt. 3,036,233.
Tudge, Joseph. 3,030,530.
Woodcock, Raymond. 3,041,612.
Mets, Edwin J., to General Electric Co. Aluminum coating of ferrous metal and resulting product. 3,058,206, 10–16–62, Cl. 29—196.2.
Mette, August G. : *See*—
Hanink, Dean K., Shoudy, Thomson, and Mette. 3,033,-705.
Mettler, Erhard : *See*—
Appius, Max K. 3,026,768.
Appius, Max K. 3,026,954.
Hasler, Walter, and Birrer. 3,058,076.
Kriznic, Bojan. 3,029,882.
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Meier, Johann. 3,039,549.
Meier, Johann. 3,053,143.
Mettler, Hal C. : Ultrasonic frequency generating crystal assembly. 3,025,419, 3–13–62, Cl. 310—9.1.
Mettoy Co. Ltd., The : *See*—
Van Cleemput, Marcel R. 3,039,229.
Metz, E. David, to Pacific Semiconductors, Inc. Packaging technique for fabrication of very small semiconductor devices. 3,047,780, 7–31–62, Cl. 317—234.
Metz, Francis L. : *See*—
Dence, Donald S., and Metz. 3,017,006.
Metz, George K. : *See*—
Husvar, Joseph M., and Metz. 3,032,840.
Metz, Jean, to General Motors Corp. Clothes washing machine and single phase induction motor therefor. 3,021,701, 2–20–62, Cl. 68—24.
Metz, Oswald : *See*—
Kaupp, Josef, Brotz, and Metz. 3,038,815.
Kaupp, Josef, and Metz. 3,060,046.
Metz, Ramey B., and W. L. Lawrence, to Robertshaw-Fulton Controls Co. Heating control device. 3,054,881, 9–18–62, Cl. 219—19.
Metz, Robert L., to United Aircraft Corp. Digital-analogue coincidence gate. 3,038,153, 6–5–62, Cl. 340—347.
Metz, Samuel T., to Treo Co., Inc. Girdle and method of making the same. 3,064,655, 11–20–62, Cl. 128—546.
Metz, Weldon L. : *See*—
Derr, Willard A., and Metz. 3,040,297.
Metzendorf, Walter : *See*—
Lang, Karl F., and Metzendorf. 3,023,255.
Lang, Karl F., Metzendorf, Turowski, and Gick. 3,023,-125.
Lang, Karl F., Metzendorf, Turowski, and Gick. 3,023,-255.
Metzger, Daniel. Cartridge case. 3,026,803, 3–27–62, Cl. 102—43.
Metzger, Daniel. Special effects projectile. 3,031,966, 5–1–62, Cl. 102—41.
Metzger, Henry L., to Fort Orange Paper Co. Box with corner type pouring spout. 3,037,679, 6–5–62, Cl. 229—17.
Metzger, Horst : *See*—
Mueller, Eugen, Metzger, and Fries. 3,048,634.
Von Schickh, Otto, and Metzger. 3,060,173.
Metzger, Joe, to Beatrice Foods Co. Vitamin C enriched yogurt. 3,025,164, 3–13–62, Cl. 99—59.
Metzger, Joe, to Beatrice Foods Co. Yogurt containing an unsaturated vegetable fat. 3,025,165, 3–13–62, Cl. 99—59.
Metzger, John : *See*—
Rudolph, Robert R. 3,035,145.
Metzger, John J. Ship salvaging apparatus and method. 3,020,905, 4–24–62, Cl. 114—55.
Metzger, John R., to Western Electric Co., Inc. Material cutters for multiple tool presses. 3,029,677, 4–17–62, Cl. 83—620.
Metzger, Sidney H. : *See*—
Chadwick, David H., Campbell, and Metzger. 3,064,030.
Metzger, Sidney H., Jr., to Monsanto Chemical Co. Method of producing dialkyl alkanephosphonates. 3,067,231, 12–4–62, Cl. 260—461.
Metzger, William J., to National Castings Co. Coupler operating mechanism. 3,021,964, 2–20–62, Cl. 213—167.
Metzger, William J., to National Castings Co. Car coupler. 3,025,975, 3–20–62, Cl. 213—100.
Metzger, William J., to National Castings Co. Car coupler. 3,033,385, 5–8–62, Cl. 213—100.
Metzler, Edward C., Jr., and H. M. Clancy, to North American Aviation, Inc. Thermoplastic adhesive sealants. 3,030,260, 4–17–62, Cl. 156—305.
Metzler, Kurt. Device for instantaneous stopping of power looms. 3,047,030, 7–31–62, Cl. 139—336.
Metzler, Phares H. Fishing sinkers. 3,043,044, 7–10–62, Cl. 43—44.87.
Metzner, Robert G., and A. J. Grolitzer, to Califone Corp. Intercommunication system. 3,045,065, 7–17–62, Cl. 179—1.
Meugnoit, Marvin G. : *See*—
Felburg, William F., and Meugnoit. 3,059,947.
Meurer, Siegfried, to Maschinenfabrik Augsburg-Nurnberg, A.G. Piston. 3,027,207, 3–27–62, Cl. 309—19.
Meurer, Siegfried, to Maschinenfabrik Augsburg-Nurnberg A.G. Combustion chambers for pistons. 3,034,489, 5–15–62, Cl. 123—32.
Meurer, Siegfried, to Augsburg-Nurnberg A.G. Maschinenfabrik. Combustion chambers for pistons. 3,046,959, 7–31–62, Cl. 123—32.
Meurer, Siegfried, to Augsburg-Nurnberg A.G., Maschinenfabrik. Internal combustion engine. 3,053,238, 9–11–62, Cl. 123—32.
Meurer, Siegfried, K. Wiebicke, H. Lachmann, and G. Dusold, to Maschinenfabrik Augsburg-Nurnberg AG. Cylinder head with air intake passages. 3,020,896, 2–13–62, Cl. 123—30.
Meurer, Siegfried, G. Jaeckel, K. Wiebicke, and H. Lachmann, to Augsburg-Nurnberg, A.G., Maschinenfabrik. Air intake passage for internal combustion engines. 3,054,390, 9–18–62, Cl. 123—30.
Meurer, Siegfried, and G. Dusold, to Maschinenfabrik Augsburg-Nurnberg A.G. Cylinder head assembly for air-cooled internal combustion engines. 3,063,435, 11–13–62, Cl. 123—41.57.
Meusel, Walter G. : *See*—
Perrins, Allen R., Meusel, and Liberi. 3,068,397.
Meuter, Ernst. Device for the galvanization of the bearing surfaces of heavy and very heavy crank shafts. 3,038,852, 6–12–62, Cl. 204—224.
Meuwly, James A. Spray can holder. 3,039,657, 6–19–62, Cl. 222—174.
Mewse, Charles, to Avdel Ltd. Ball detent coupling device with a rotatable and axially movable operating member. 3,068,737, 12–18–62, Cl. 85—5.
Mexy, Etablissement : *See*—
Kron, Max. 3,040,899.
Mey, Helmut : *See*—
Buchmüller, Werner, and Mey. 3,024,685.
Mey, Helmut, to Goetzewerke Friedrich Goetze A.-G. Apparatus for machining non-circular work. 3,057,235, 10–9–62, Cl. 82—1.
Meyer, Albert, to The Baldwin Piano Co. Obtaining ensemble and celeste effects in electrical musical instruments. 3,049,959, 8–21–62, Cl. 84—1.24.
Meyer, Albert, and O. Wenger, to Maag-Zahnrader & Maschinen Aktien-Gesellschaft. Method for the cold form generation of cylindrical workpieces. 3,032,871, 5–8–62, Cl. 29—552.
Meyer, Alvin L., Jr., and R. D. Meyer. Bale buncher. 3,065,-866, 11–27–62, Cl. 214—9.
Meyer, Andre J., Jr., and H. F. Calbert, to United States of America, National Aeronautics and Space Administration. Modification and improvements to cooled blades. 3,057,-597, 10–9–62, Cl. 253—39.1.
Meyer, Arnold F., to The Hell Co. Frameless transportation tanks. 3,043,599, 7–10–62, Cl. 280—5.
Meyer, Arthur A., to Warner Electric Brake & Clutch Co. Mounting for magnetic friction elements. 3,054,480, 9–18–62, Cl. 188—164.
Meyer, Barthold F., and N. Toruk, to General Motors Corp. Circuit controller. 3,033,946, 5–8–62, Cl. 200—6.
Meyer, Bruce L., to Sperry Rand Corp. Communication system. 3,068,416, 12–11–62, Cl. 325—61.
Meyer, Burton C. : *See*—
Glass, Marvin I., Rittgers, and Meyer. 3,050,307.
Meyer, Charles F. : *See*—
Mierendorf, Robert C., and Meyer. 3,024,354.
Meyer, David, to E. W. Bliss Co. Liquid fuel atomizer. 3,015,449, 1–2–62, Cl. 239—417.
Meyer, David, to E. W. Bliss Co. Inspirator burner. 3,063,-494, 11–13–62, Cl. 158—99.
Meyer, Delbert H. : *See*—
Kalfadelis, Charles D., and Meyer. 3,022,333.
Knobloch, James O., and Meyer. 3,059,025.
Meyer, Earl A., to Bjorksten Research Laboratories, Inc. Electrical integrating device. 3,028,498, 4–3–62, Cl. 250—106.
Meyer, Edward S. Seal installer and method of repairing. 3,029,503, 4–17–62, Cl. 29—283.
Meyer, Engelbert A., to General Motors Corp. Pinchweld clip. 3,034,616, 5–15–62, Cl. 189—88.
Meyer, Engelbert A., to General Motors Corp. Pinchweld clip. 3,037,595, 6–5–62, Cl. 189—88.
Meyer, Engelbert A., to General Motors Corp. Sheet metal fastener for engagement with flat or round stud. 3,069,-963, 12–25–62, Cl. 85—36.
Meyer, Ernest A., to C.-H. and B.-B. Borzykowski. Accessory device for machine-tools, more particularly for toolmakers' lathe. 3,057,618, 10–9–62, Cl. 269—95.
Meyer, Ferdinand : *See*—
Gerlich, Hans, Knobloch, and Meyer. 3,041,315.
Meyer, Ferdinand, and K. Demmler, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Dehydrohalogenation of polyhalogenhydrin ethers. 3,023,224, 2–27–62, Cl. 260—348.6.
Meyer, Ferdinand, and H. E. Knobloch, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Synthetic resins soluble in ethanol and derived from tetrahydronaphthyl-hydroxyphenylmethane and formaldehyde, and a process of producing same. 3,036,993, 5–29–62, Cl. 260—51.
Meyer, Ferdinand, and H. E. Knobloch, to Badische Anilin- & Soda-Fabrik Aktiengesellchaft. Curable synthetic resin compositions from formaldehyde, and phenolic compounds, and a process of curing same. 3,036,994, 5–29–62, Cl. 260—57.

Meyer, Fred J., Jr. Disappearing-type anchor. 3,042,161, 7–3–62, Cl. 189—90
Meyer, Friedrich, to Ebauches S.A. Winding and setting device for watches. 3,040,513, 6–26–62, Cl. 58—68.
Meyer, Friedrich. Process of percutaneously administering exact doses of physiologically active agents and composite unit therefor. 3,053,255, 9–11–62, Cl. 128—268.
Meyer, Fritz, to Gebrueder Buehler. Apparatus for the prevention of formation of sugar crusts on continuous trough conveyors. 3,019,618, 2–6–62, Cl. 62—380.
Meyer, Geo. J., Mfg. Co.: *See*—
Carter, Sidney T. 3,036,624.
Carter, Sidney T. 3,036,689.
Carter, Sidney T. 3,040,870.
Carter, Sidney T. 3,043,588.
Carter, Sidney T. 3,047,032.
Carter, Sidney T. 3,054,496.
Granier, Hector J. 3,018,804.
Meyer, George L. N. 3,046,027.
Meyer, George L. N. 3,050,091.
Meyer, George L. N. 3,067,785.
Meyer, George L. N., to Geo. J. Meyer Mfg. Co. Valve sealing element. 3,046,027, 7–24–62, Cl. 277—180.
Meyer, George L. N., to Geo. J. Meyer Mfg. Co. Can filler stirrup. 3,050,091, 8–21–62, Cl. 141—370.
Meyer, George L. N., to Geo. J. Meyer Mfg. Co. Can filling head. 3,067,785, 12–11–62, Cl. 141—57.
Meyer, Gerhard: *See*—
Indest, Heinz, and Meyer. 3,048,635.
Meyer, Gerson, to Life-Like Products, Inc. Thermally insulated containers. 3,024,940, 3–13–62, Cl. 220—55.
Meyer, Glen F., to Champ-Items, Inc. Adjustable kits for ball-joints of vehicle suspension systems. 3,039,787, 6–19–62, Cl. 280—96.2.
Meyer, Glenn: *See*—
Murphy, Oscar V., and Meyer. 3,036,736.
Meyer, Hans. Length measuring appliances. 3,032,883, 5–8–62, Cl. 33—164.
Meyer, Hans and P. Fabric. 3,036,602, 5–29–62, Cl. 139—420.
Meyer, Hans H.: *See*—
Claussen, Ole H., and Meyer. 3,055,080.
Meyer, Hans R.: *See*—
Gabler, Rudolf, and Meyer. 3,036,076.
Meyer, Harold A. Portable barbecue. 3,060,918, 10–30–62, Cl. 126—9.
Meyer, Harry A., and A. F. L. Anderson, to American Radiator & Standard Corp. Air conditioner. 3,058,650, 10–16–62, Cl. 230—128.
Meyer, Henry L.: *See*—
Di Liddo, Andrew J., and Meyer. 3,037,307.
Penote, Vincent S., and Meyer. 3,054,199.
Wilhelm, Fred R., Gregorczik, and Meyer. 3,064,427.
Wilhelm, Fred R., Gregorczik, and Meyer. 3,064,681.
Meyer, Henry L., to Westinghouse Electric Corp. Electric lamp and method of manufacture. 3,036,236, 5–22–62, Cl. 313—318.
Meyer, Henry L., F. R. Wilhelm, and E. Gregorczik, to The Cleveland Trencher Co. Crumbing mechanism for excavating machines. 3,022,584, 2–27–62, Cl. 37—80.
Meyer, Henry L., and A. G. Maran, to The Cleveland Trencher Co. Excavating machine. 3,037,306, 6–5–62, Cl. 37—91.
Meyer, Herbert, to Nurnberger Schwachstrombauelemente Fabrik Gesellschaft mit beschrankter Haftung. Signal-seeking tuning drive system. 3,045,060, 7–17–62, Cl. 178—5.8.
Meyer, Herbert, and V. Reckstadt, to Nurnberger Schwachstrom-Bauelemente Fabrik Gesellschaft mit beschrankter Haftung. Combined television channel switch. 3,036,212, 5–22–62, Cl. 250—20.
Meyer, Horst. Inflatable balls. 3,070,479, 12–25–62, Cl. 156—196.
Meyer, James R. Automatic film processing apparatus. 3,023,686, 3–6–62, Cl. 95—94.
Meyer, Johannes. Pack of blank forms. 3,050,317, 8–21–62, Cl. 283—63.
Meyer, John H. Apparatus for finishing concrete floors. 3,038,349, 6–12–62, Cl. 74—218.
Meyer, John H. Apparatus for finishing concrete floors. 3,038,350. 6–12–62, Cl. 74—218.
Meyer, Joseph E., to The Cottrell Co. Water roll arrangement for rotary printing presses. 3,043,216, 7–10–62, Cl. 101—179.
Meyer, Karl-Heinrich, and H. Schnell, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of diarylcarbonates. 3,017,424, 1–16–62, Cl. 260—463.
Meyer, Kurt: *See*—
Boss, Karl-Heinz, and Meyer. 3,020,147.
Rausch, Hans, and Meyer. 3,042,390.
Schaefer, Bruno, Michels, Meyer, and Rausch. 3,027,251.
Meyer, Kurt, H. Rausch, and W. Koch, to Metallgesellschaft Aktiengesellschaft. Reduction roasting of iron ores. 3,034,884, 5–15–62, Cl. 75—1.
Meyer, Lawrence J., to Lee-Rowan Co. Trousers creaser means. 3,040,965, 6–26–62, Cl. 229—51.
Meyer, Leo F.: *See*—
Hay, Russell G., Meyer, and Selwitz. 3,068,306.
Hazen, Stanley M., and Meyer. 3,046,265.
Meyer, Leo J. Pivoted bucket carrier. 3,055,486, 9–25–62, Cl. 198—145.
Meyer, Lester P.: *See*—
Barsness, Norris K., Meyer, Johnson, and Thompson. 3,064,453.
Meyer, Maurice A., E. D. Ostroff, and H. Rubinstein, to Laboratory for Electronics, Inc. Counting apparatus. 3,032,748, 5–1–62, Cl. 340—174.
Meyer, N. S., Inc.: *See*—
Raeburn, Abner A. 3,020,558.
Meyer, Paul: *See*—
Frenkel, Meyer S., and Meyer. 3,044,716.
Martinek, Rudolph F., and Meyer. 3,036,380.
Meyer, Paul H., and H. J. Hanson, to Naamlooze Vennootschap-Maatschappij Tot Vervaardiging Van Snijmachines Volgens Van Berkel's Patent en Van Andere Werktuigen. Prewrap device. 3,031,818, 5–1–62, Cl. 53—206.
Meyer, Percy, and G. N. Griffiths, to The British Petroleum Co. Ltd. Reduction of sludge deposition from crude oils. 3,027,319, 3–27–62, Cl. 208—370.
Meyer, Peter: *See*—
Meyer, Hans and P. 3,036,602.
Meyer, Ralph E.: *See*—
Graefe, Allen F., and Meyer. 3,070,596.
Randolph, Carl L., Jr., and Meyer. 3,050,560.
Meyer, Raymond W., to Johns-Manville Fiber Glass Inc. Method of forming color-patterned glass fiber panels. 3,061,496, 10–30–62, Cl. 156—26.
Meyer, Richard A., Sr.: *See*—
Anderson, Ralph Z., and Meyer. 3,030,047.
Meyer, Robert E., to United Aircraft Corp. Thrust reverser tailoring tabs. 3,018,620, 1–30–62, Cl. 60—35.54.
Meyer, Robert E., to United Aircraft Corp. Exhaust nozzle. 3,036,674, 5–8–62, Cl. 60—35.6.
Meyer, Robert E., and S. Bellak, to United Aircraft Corp. Contaminate free conduit means and method of assembly thereof. 3,044,479, 7–17–62, Cl. 137—68.
Meyer, Robert F., to Parke, Davis & Co. 7-chloro-4-hydroxy-6-quinoline sulfonamide. 3,057,869, 10–9–62, Cl. 260—289.
Meyer, Robert W., to Owens-Illinois Glass Co. Apparatus for handling and treating vials. 3,017,011, 1–16–62, Cl. 198—33.
Meyer, Roy D.: *See*—
Meyer, Alvin L., Jr., and R. D. Meyer. 3,065,866.
Meyer, Saul: *See*—
Blain, Albert, Welsh, Wilson, Meyer, and Roggenstein. 3,037,606.
Meyer, Theodore F. W., to Equi-Flex Products, Inc. Rod wiper construction. 3,056,985, 10–9–62, Cl. 15—104.04.
Meyer, Walter. Magnetic eraser and brush. 3,039,435, 6–19–62, Cl. 120—56.
Meyer, Wilhelm: *See*—
Hägele, Gustav, Meyer, and Johannsen. 3,044,978.
Hagele, Gustav, Meyer, and Johannsen. 3,066,114.
Muller, Hugo, Meyer, and Meier. 3,036,490.
Meyer & Wendle, Inc.: *See*—
Prasmeyer, Charles. 3,033,106.
Meyer, Wilhelm, to Vereinigte Glanzatoff-Fabriken Aktiengesellschaft. Mountaineering ropes. 3,030,851, 4–24–62, Cl. 87—6.
Meyer, William F., to Bowling Master, Inc. Bowler's wrist support. 3,049,717, 8–21–62, Cl. 2—16.
Meyercord Co., The: *See*—
Brownlee, Kenneth H. 3,068,622.
Meyerhoefer, Carl E., to Knomark, Inc. Metering applicator for fluids. 3,054,134, 9–18–62, Cl. 15—566.
Meyerhoff, Walter E., to California Research Corp. Apparatus for logging neutron-capture gamma rays. 3,041,455, 6–26–62, Cl. 250—71.5.
Meyerhoff Alfred: *See*—
Borneman, Edmond H., and Meyerhoff. 3,030,559.
Meyerhoff, Alfred, and B. L. Stubbs, to Westinghouse Electric Corp. Lapping machine. 3,063,206, 11–13–62, Cl. 51—161.
Meyers, Albert I.: *See*—
Kerschner, Paul M., and Meyers. 3,055,864.
Meyers, Cal Y.: *See*—
Hersh, Solomon P., and Meyers. 3,023,129.
Meyers, Cal Y., to Union Carbide Corp. Process for producing aqueous trimethylolphenol solutions. 3,023,251, 2–27–62, Cl. 260—621.
Meyers, Donald N. Automatic resetting cargo hook. 3,039,-746, 6–19–62, Cl. 258—1.2.
Meyers, Douglas C., to Shell Oil Co. Read-out system for well-bore channel records. 3,049,292, 8–14–62, Cl. 235—61.9.
Meyers, Douglas C., to Shell Oil Co. Apparatus for producing high pressure wells. 3,050,125, 8–21–62, Cl. 166—91.
Meyers, Elwood J.: *See*—
Ring, Wayne A., and Meyers. 3,045,917.
Meyers, George C., and F. P. Adler, to Pullman-Standard Car Mfg. Co. Lock for enclosed sliding hopper gate. 3,035,-530, 5–22–62, Cl. 105—308.
Meyers, George L.: *See*—
Andrews, David B., and Meyers. 3,037,684.
Meyers, George L., to American Can Co. Carton. 3,040,957, 6–26–62, Cl. 229—37.
Meyers, George L., to American Can Co. Display carton. 3,040,961, 6–26–62, Cl. 229—39.
Meyers, George L., to American Can Co. Carton opening automatic lock. 3,051,518, 8–28–62, Cl. 287—58.
Meyers, George L., to American Can Co. Paper bake pan. 3,033,101, 5–8–62, Cl. 99—439.
Meyers, Gilbert W., to North American Aviation, Inc. Portable generator utilizing direct conversion of heat to electricity. 3,056,848, 10–2–62, Cl. 136—4.
Meyers, Harold S., to Waldorf Paper Products Co. Display portfolios. 3,021,000, 2–13–62, Cl. 206—44.

Meyer-Simon, Eugen: *See*—
Kloepfer, Harry, Frey, Meyer-Simon, and Schraus.
3,027,230.
Meyers, Joseph, ⅛ to J. Meyers, $^{23}/_{100}$ to J. L. Miller, ½ to S. G. Gummer, and $^{1}/_{10}$ to N. C. De Laittre. Emergency brake mechanism. 3,031,036, 4–24–62, Cl. 188—106.
Meyers, Raymond I., and K. C. Kramer, to Lear, Inc. Aircraft roll and stabilizing apparatus. 3,018,072, 1–23–62, Cl. 244—77.
Meyers, Stanley T., to Bell Telephone Laboratories, Inc. Binary counter employing multiregion bistable semiconductive devices. 3,054,000, 9–11–62, Cl. 307—88.5.
Meyerson, Robert F. Carton for fluid containers. 3,033,356, 5–8–62, Cl. 206—45.31.
Meyerson, Stanley. Adjustable and convertible end piece for watch bands. 3,039,162, 6–19–62, Cl. 24—265.
Meykar, Orest A., to Westinghouse Electric Corp. Rectifier apparatus. 3,054,933, 9–18–62, Cl. 317—99.
Meykar, Orest A., to Westinghouse Electric Corp. Series diode stack with surge protection. 3,059,165, 10–16–62, Cl. 321—8.
Meynadier & Cie A.G.: *See*—
Kauer, Walter. 3,060,077.
Meyr, Rudolf: *See*—
Ugi, Ivar, and Meyr. 3,065,241.
Meys, Johannes J. C., to North American Philips Co., Inc. Voltage stabilizer. 3,070,738, 12–25–62, Cl. 321—27.
Meystre, Charles: *See*—
Jeger, Oskar, Arigoni, Anner, Meystre, and Wettstein. 3,040,040.
Wettstein, Albert, Anner, Meystre, Wieland, Ehmann, Heusler, Hunger, and Kebrle. 3,026,340.
Wettstein, Albert, Anner, Meystre, Wieland, Ehmann, Heusler, Hunger, and Kebrle. 3,033,881.
Wettstein, Albert, Anner, Meystre, Wieland, Ehmann, Heusler, Hunger, and Kebrle. 3,040,072.
Wettstein, Albert, and Meystre. 3,060,207.
Wettstein, Albert, Vischer, Kahnt, Meystre, and Neher. 3,060,100.
Mezger, Eduard. Positioning arrangement for a gripping device for moulding boxes or the like. 3,015,514, 1–2–62, Cl. 294—86.
Meziere, Walter G.: *See*—
Byssing, George J., and Meziere. 3,055,469.
Mezzacappa, Antonio L. Method and apparatus for teaching languages. 3,059,348, 10–23–62, Cl. 35—35.
Miami Shipbuilding Corp.: *See*—
Keller, John W. 3,051,000.
Miane, Marcel: *See*—
Gavreau, Vladimir, Calaora, and Miane. 3,028,530.
Miazza, Theodore L.: *See*—
Luber, William F. 3,056,067.
Micafil A.-G.: *See*—
Wirth, Otto. 3,044,721.
Michael, Bayard H.: *See*—
McCarty, Lourdes V., and Michael. 3,059,136.
Michael, Charles E. Fishing sinker. 3,057,110, 10–9–62, Cl. 43—44.97.
Michael, Edward N. Floating and tilting specimen support table. 3,058,226, 10–16–62, Cl. 33—174.
Michael, Gregor: *See*—
Strauss, Wennemar, Michael, and Willmund. 3,023,151.
Strauss, Wennemar, Michael, and Worms. 3,035,991.
Michael, Harlan G.: *See*—
Broadhead, Samuel L., Jr., and Michael. 3,036,211.
Michael, Harold J. Bearing and method of bearing manufacture. 3,037,828, 6–5–62, Cl. 308—238.
Michael, Henry J.: *See*—
Breen, Charles, and Michael. 3,046,339.
Michael, Malden: *See*—
Innes, William B., Michael, and Chomitz. 3,023,172.
Michael, Malden W., and W. B. Innes, to American Cyanamid Co. Platinized alumina catalysts of controlled halogen content. 3,032,512, 5–1–62, Cl. 252—441.
Michael, Paul A.: *See*—
Borst, Lyle B., and Michael. 3,056,737.
Reid, Jack M., and Michael. 3,055,209.
Michael, Peter C.: *See*—
Sieber, Peter W., and Michael. 3,034,075.
Michael, Vilo G., to Martin-Marietta Corp. Combination reservoir-accumulator arrangement for hydraulic system. 3,015,345, 1–2–62, Cl. 138—31.
Michaelides, Theophilos P. Device for stabilizing full lower denture. 3,023,499, 3–6–62, Cl. 32—2.
Michaelis, John L., to Pittsburgh Plate Glass Co. Method of testing semiconducting rectifiers. 3,052,840, 9–4–62, Cl. 324—52.
Michaels, Adlai E., and A. Winard, to Esso Research and Engineering Co. Gasolines inhibited against the formation of deposits, sludge and varnish. 3,015,546, 1–2–62, Cl. 44—62.
Michaels, Adlai E., E. D. Nostrand, and T. S. Tutwiler, to Esso Research and Engineering Co. Gasolines containing polymeric additive agents. 3,058,818, 10–16–62, Cl. 44—62.
Michaels Art Bronze Co., Inc., The: *See*—
Michaels, Frank L. 3,042,158.
Michaels, Bruno, to Bell & Howell Co. Loop restoring motion picture projector. 3,021,039, 2–13–62, Cl. 226—36.
Michaels, Bruno, to Bell & Howell Co. Motion picture apparatus. 3,053,465, 9–11–62, Cl. 242—55.11.
Michaels, Edwin B., to Stamford Chemical Industries, Inc. Detergent composition. 3,034,989, 5–15–62, Cl. 252—137.
Michaels, Edwin B., to Stamford Chemical Industries, Inc. Detergent composition. 3,067,144, 12–4–62, Cl. 252—139.
Michaels, Edwin B., to Stamford Chemical Industries, Inc. Copolymer acrylate-amino acrylate and metal isopropoxide water repellent compositions. 3,067,155, 12–4–62, Cl. 260—27.
Michaels, Frank L., to The Michaels Art Bronze Co., Inc. Display case construction. 3,042,158, 7–3–62, Cl. 189—36.
Michaels, Henry R., to Stewart-Warner Corp. Anticreep construction for projectiles detonated on impact. 3,021,787, 2–20–62, Cl. 102—73.
Michaels, James. Descumming preparation and process. 3,051,603, 8–28–62, Cl. 156—14.
Michaels, Maurice A. Timing unit adapter for the meter of a coin-operated machine. 3,054,492, 9–18–62, Cl. 194—1.
Michalek, Charles C.: *See*—
Strub, Henry M., Jr., and Michalek. 3,025,661.
Michalko, Edward, to Universal Oil Products Co. Manufacture of spheroidal alumina particles from aluminum sulfate. 3,027,232, 3–27–62, Cl. 23—143.
Michalko, Edward, to Universal Oil Products Co. Process for the production of alumina from aluminum sulfate. 3,027,233, 3–27–62, Cl. 23—143.
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Michatek, Stephen F.: *See*—
Harvey, James E., and Michatek. 3,046,833.
Michaud, Albert J.: *See*—
Dayton, David R., Michaud, and Viscosi. 3,069,537.
Michel, Albert, and H. Schindler, to Schon & Cie. G.m.b.H. Machine for pulling over a last and gluing the uppers of shoes. 3,066,329, 12–4–62, Cl. 12—10.8.
Michel, Andre: *See*—
Vondelen, Elie, and Michel. 3,023,051.
Michel, Charles, to Powers Wire Products Co., Inc. Hogring applicating tool. 3,023,417, 3–6–62, Cl. 1—187.
Michel, Charles, to Powers Wire Products Co., Inc. Fastener driving and dimpling tool. 3,040,327, 6–26–62, Cl. 1—107.
Michel, David R. Device for dispensing aerated products. 3,048,307, 8–7–62, Cl. 222—394.
Michel, Emory B.: *See*—
Roehl, Edward J., Michel, and Kalla. 3,034,211.
Michel, Frank: *See*—
Miskel, John J., Strom, Michel, and Tancredi. 3,026,873.
Michel, H. M., to Knapsack-Griesheim Aktiengesellschaft. Process for improving the corrosion resistance of pieces of light metals and light metal alloys. 3,032,435, 5–1–62, Cl. 117—70.
Michel, Kaspar, to Gebruder Gysi A.G. Device controlling the light passing through the glass roof of a conservatory. 3,016,801, 1–16–62, Cl. 88—61.
Michel, Louis: *See*—
Le Tilly, Henri, and Michel. 3,068,705.
Michel, Philip C.: *See*—
Kraklinowski, Morris, and Michel. 3,052,874.
Michel, Philip L., and E. A. Fradenburgh, to United Aircraft Corp. Rotor head fairing. 3,056,456, 10–2–62, Cl. 170—159.
Michel, Rudolph H., to E. I. du Pont de Nemours and Co. Process for modifying monoolefin/carbon monoxide polymers. 3,068,201, 12–11–62, Cl. 260—63.
Michel, Rüppprecht, to Siemens-Schuckertwerke Aktiengesellschaft. Forced-flow boiler of the once through type. 3,026,857, 3–27–62, Cl. 122—235.
Micheletti, Steno F., to Standard Oil Co. Process and apparatus for gas chromatography. 3,032,953, 5–8–62, Cl. 55—62.
"Michelin & Cie": *See*—
Boussu, Gabriel X. R., Neuville, and Saint-Frison. 3,062,259.
Boussu, Gabriel X. R., Neuville, Saint-Frison, and Peignier. 3,060,160.
Neuville, Louis P. F. A., and Saint-Frison. 3,067,795.
Michelitsch, Walter, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of non-caking urea. 3,027,250, 3–27–62, Cl. 71—64.
Michels, Josephus F.: *See*—
De Jongh, David K., Kraaijeveld, van Leeuwen, and Michels. 3,026,321.
Michels, Rudolf: *See*—
Schaefer, Bruno, Michels, Meyer, and Rausch. 3,027,251.
Michelson, Leonard: *See*—
Hays, Edwin E., and Michelson. 3,051,623.
Michener, Harold D., and J. C. Lewis, to United States of America, Agriculture. Preservation process with quaternary ammonium compounds. 3,054,678, 9–18–62, Cl. 99—150.
Michie, Amanda A.: *See*—
Michie, John S. 3,018,923.
Michie, John S., deceased; A. A. Michie, executrix, assor. to herself. Flow metering device. 3,018,923, 1–30–62, Cl. 222—41.
Michieli, Giannantonio: *See*—
Losco, Giuseppe, Rossi, and Michieli. 3,033,744.
Michigan Abrasive Co.: *See*—
Cook, Herbert E. 3,046,709.
Michigan Carton Co.: *See*—
Bundy, Patrick L., Hook, and Reesman. 3,031,100.

Michigan Chemical Corp.: *See*—
Frimodig, Mark M. 3,059,777.
Nametz, Richard C. 3,034,948.
Nametz, Richard C. 3,058,946.
Overbeek, Donald E., and Nametz. 3,046,297.
Velgos, Robert. 3,025,325.
Michigan Modern Engineering Co.: *See*—
Perkins, Donald C. 3,039,642.
Michigan Research Laboratories, Inc.: *See*—
Pattilloch, Donald K. 3,027,295.
Pattilloch, Donald K. 3,060,079.
Pattilloch, Donald K., and Polowczyk. 3,022,213.
Michigan Tool Co.: *See*—
Carisen, William R. 3,056,241.
Drader, Joseph C. 3,015,243.
McCardell, Willard B. 3,043,169.
McCardell, Willard B. 3,062,077.
Michl, Karl-Heinz: *See*—
Heckmaier, Joseph, and Michl. 3,055,848.
Michlin, Alex, to Skirt-O-Matic, Inc. Skirt hanger. 3,024,-954, 3–13–62, Cl. 223—95.
Michlin, Hyman A. Electric frequency controlled color phosphor screen. 3,043,987, 7–10–62, Cl. 315—26.
Michlin, Hyman A. Flexibly controlled resultant color display sign. 3,058,003, 10–9–62, Cl. 250—213.
Michlin, William, to Philco Corp. Electrochemical method for cleansing semiconductive devices. 3,042,593, 7–3–62, Cl. 204—141.
Mick, Stanley H., to General Motors Corp. Idle mixture control air valve carburetor. 3,023,744, 3–6–62, Cl. 123—119.
Mick, Stanley H., to General Motors Corp. Carburetor. 3,053,240, 9–11–62, Cl. 123—119.
Mickel, Blanchard L.: *See*—
Kawahara, Fred K., and Mickel. 3,049,871.
Mickelsen, William R.: *See*—
Childs, James H., and Mickelsen. 3,063,291.
Mickelson, Samuel R. Leg locking device for folding tables. 3,026,161, 3–20–62, Cl. 311—99.
Mickle, Francis A.: *See*—
Evans, George J., and Mickle. 3,053,564.
Mickle, Francis A., and C. P. Sprunk, to General Motors Corp. Sealing grommet. 3,064,984, 11–20–62, Cl. 277—178.
Mickley, Harold S., to Fairchild Stratos Corp. Signal beacon. 3,037,475, 6–5–62, Cl. 116—26.
Micro Balancing, Inc.: *See*—
Frank, Karl F. 3,017,768.
Frank, Karl F. 3,027,695.
Frank, Karl F. 3,057,209.
Microcard Reader Corp.: *See*—
Gelatt, Charles D. 3,064,528.
Microcell Ltd.: *See*—
Bloomfield, Peter R. 3,044,984.
Loewenstein, Klaus L. 3,060,041.
Microchemical Specialties Co.: *See*—
Shapiro, Justin J., Deminet, and Camenson. 3,067,915.
Micro Controls, Inc.: *See*—
Holzboog, Walter H., and Reinhart. 3,065,913.
Microcyclomat Co.: *See*—
Kosa, Tibor, Rozsa, and Holmes. 3,067,959.
Lykken, Henry G., and W. H. 3,038,669.
Rozsa, Tibor A., and Holmes. 3,015,392.
Rozsa, Tibor A., and Holmes. 3,015,393.
Microdot Inc.: *See*—
Felts, Gordon P. 3,051,925.
Seeger, Robert W. 3,015,799.
Micro Machinery Products, Inc.: *See*—
Meserve, Forrest C. 3,039,520.
Micro-Master, Inc.: *See*—
Wally, Joseph H., Jr., and Grunwald. 3,062,093.
Micromatic Hone Corp.: *See*—
Czubak, Albin S. 3,064,397.
Ellis, Rollo G. 3,016,662.
Greening, John H. 3,030,740.
Greening, John H., and Engle. 3,059,381.
Harris, William H., Jr. 3,065,577.
Peden, Douglas T., and Militzer. 3,067,547.
Micro Metalizing Corp.: *See*—
Rodriguez, Cipriano. 3,028,835.
Microson Equipment Corp.: *See*—
Fisher, Robert P. 3,028,103.
Fisher, Robert P. 3,028,106.
Microtite Corp.: *See*—
Kobert, Frank P. 3,024,048.
Microwave Associates, Inc.: *See*—
Harris, Francis S. 3,056,127.
Lanciani, Daniel A., and Blaisdell. 3,019,399.
Uhlir, Arthur, Jr. 3,038,075.
Microwave Development Laboratories, Inc.: *See*—
Borghetti, Joseph C. 3,023,382.
Salzberg, Edward. 3,027,525.
Microwave Electronic Tube Co., Inc.: *See*—
Roberts, Louis W. 3,017,534.
Microwave Engineering Laboratories, Inc.: *See*—
Addleman, Lloyd A. 3,070,747.
Mid-Century Corp.: *See*—
Barker, Robert S., and Saffer. 3,030,414.
Saffer, Alfred, and Barker. 3,069,462.
Mid-Continent Metal Products Co.: *See*—
Haedike, Edward J. 3,027,853.
Middaugh, Franklin R. Tool for removing hub caps. 3,029,502, 4–17–62, Cl. 29—245.
Middaugh, Jack K., to Bell Telephone Laboratories, Inc. Automatic traffic sampler and recorder. 3,018,334, 1–23–62, Cl. 179—8.
Middendorf, Karl H., to The Prescon Corp. Post-tensioning method for prestressing members. 3,029,490, 4–17–62, Cl. 25—154.
Middendorf, Leonhard: *See*—
Haede, Werner, Middendorf, and Fritsch. 3,059,001.
Middendorf, William H., to The Wadsworth Electric Mfg. Co., Inc. Circuit breaker having cam controlled contact bar. 3,018,351, 1–23–62, Cl. 200—116.
Middents, John R., and R. M. Caccese. Slide mounting device. 3,025,210, 3–13–62, Cl. 156—539.
Middlebrooks, Clarence E., Jr. Rotor construction and method. 3,063,674, 11–13–62, Cl. 253—77.
Middlestadt, William F. Concrete joint. 3,038,395, 6–12–62, Cl. 94—18.
Middlestadt, William F. Device for deforming insert in concrete joints. 3,038,397, 6–12–62, Cl. 94—39.
Middleswarth, Earl T., and J. E. Duncan, to Pittsburgh Plate Glass Co. Dense, non-browning, plate glass composition. 3,046,148, 7–24–62, Cl. 106—53.
Middleton, Forest L., to Lescoa, Inc. Ash tray. 3,045,813, 7–24–62, Cl. 206—19.5.
Middleton, Howard A. Liquid cooling system. 3,031,860, 5–1–62, Cl. 62—189.
Middleton, John F., to Foster Wheeler Corp. Apparatus for effecting countercurrent contact between liquid and vapor streams. 3,048,957, 8–14–62, Cl. 55—257.
Middleton, John M.: *See*—
Ullman, Robert, Fortna, Middleton, Schwalm, and Tritt. 3,023,115.
Ullman, Robert, Fortna, Middleton, Schwalm, and Tritt. 3,066,826.
Middleton, William J.: *See*—
Miller, William T., and Middleton. 3,048,609.
Middleton, William J., to E. I. du Pont de Nemours and Co. Alpha-hydro-beta fluoroalkyl allyl sulfides. 3,052,726, 9–4–62, Cl. 260—609.
Middleton, William J., to E. I. du Pont de Nemours and Co. Products and art. 3,067,233, 12–4–62, Cl. 260—461.
Middleton, William J., to E. I. du Pont de Nemours and Co. Halothacyl fluorides and polymers thereof. 3,069,395, 12–18–62, Cl. 260—79.
Middleton, William J., to E. I. du Pont de Nemours and Co. Polymers of polyfluorothioketone. 3,069,396, 12–18–62, Cl. 260—79.
Middletown Mfg. Co.: *See*—
Babbitt, John F. 3,070,342.
McMahan, Roy F., Jr. 3,025,116.
Midgette, Ernst L., to Harris-Intertype Corp. Escapement control for typographical linecasting machines. 3,042,188, 7–3–62, Cl. 199—23.
Midgette, Ernst L., E. Sarfaty, and J. W. Bittner, to Harris-Intertype Corp. Metal pot mouthpiece for typographical linecasting machines. 3,063,548, 11–13–62, Cl. 199—47.
Midkiff, James C., to Avco Corp. Electronic oscillator with saturation bias for starting and grid current bias for running. 3,044,024, 7–10–62, Cl. 331—62.
Midland Adhesive & Chemical Corp.: *See*—
Rice, Herbert C. 3,027,192.
Midland Bank Executor and Trustee Co. Ltd.: *See*—
Baker, George T. 3,055,983.
Midland Chemical Corp.: *See*—
Berry, John M. 3,022,258.
Berry, John M. 3,069,290.
Berry, John M. 3,070,458.
Berry, John M., and Wise. 3,017,287.
Midland Mfg. Co., Inc.: *See*—
Fisher, George F. 3,047,749.
Portis, Ralph G. 3,035,604.
Midland-Ross Corp.: *See*—
Beggs, Donald, and Cone. 3,038,790.
Beggs, Donald, Huebler, Sabin, Scarlett, and Turin. 3,021,236.
Brown, Ronald W. 3,064,952.
Burroughs, Ralph H., Jr., and Levine. 3,046,085.
Cook, Eugene A., and Cone. 3,033,539.
Dailey, William H., Jr. 3,022,056.
De Coriolis, Ernest G., and Sykes. 3,019,007.
Dionne, Vianney J. 3,064,941.
Fulton, Wadsworth T. 3,027,149.
Goldner, Paul. 3,052,991.
Hanna, Ralph. 3,043,517.
Hansen, Erwin G. 3,036,779.
Hepburn, William M. 3,032,326.
Huebler, Jack, Cone, Dailey, and Nesbitt. 3,024,015.
Kelley, Gilbert A. 3,065,043.
Kelley, Gilbert A., Rahm, and Oates. 3,067,468.
Levy, Eli. 3,046,233.
Nesbitt, John D. 3,043,368.
Petit, Theodore A., Wynen, and Plummer. 3,054,499.
Rockstead, Joel B. 3,022,425.
Schultz, Forrest O. E. 3,046,003.
Staehle, Haswell E., and Siddle. 3,053,198.
Temin, Samuel C. 3,020,311.
Temin, Samuel C. 3,066,034.
Valentine, Dale M., and Kelley. 3,018,231.
Weaver, Ernest W. 3,035,824.
Wright, Jay L., and Petrie. 3,060,832.
Young, Gloyd H., and Cone. 3,070,362.
Midlock, Bernard J.: *See*—
Barker, John L., and Midlock. 3,024,443.

Mid-States Welder Mfg. Co. : *See*—
Jetter, William W. 3,059,170.
Mid-Wes-Pak Corp. : *See*—
Wilke, Howard C. 3,023,926.
Mid-West Abrasive Co. : *See*—
Yeasting, Maynard C., and Magsig. 3,017,726.
Midwest Automatic Inc. : *See*—
Watson, Donald W. 3,032,166.
Midwest Conveyor Co., Inc. : *See*—
Potter, Omer R., and Peterson. 3,049,083.
Midwest Folding Products Mfg. Corp. : *See*—
Haunost, Daniel A. 3,061,369.
Heisler, Harold. 3,021,575.
Midwest Mfg. Corp. : *See*—
Mudd, Kenneth C. 3,040,731.
Squire, Herbert D. 3,056,640.
Midwest Pressure Casting Co., Inc. : *See*—
Mercer, Orville H. 3,052,987.
Midwest Supply and Mfg. Co. : *See*—
Thiel, Otto. 3,044,367.
Thiel, Otto, and Lane. 3,039,236.
Midwestern Instruments, Inc. : *See*—
Isbell, Willard D. 3,062,077.
Mid-Western Machinery Co., Inc. : *See*—
Ahnert, Fred E. 3,040,835.
Midwestern Mfg. Co. : *See*—
Sharp, Joseph C. 3,055,511.
Miedema, Hektze, to Bell Telephone Laboratories, Inc. Transmission control in two way communication system. 3,046,-347, 7–24–62, Cl. 179—15.
Miehle-Goss-Dexter, Inc. : *See*—
Behringer, Alfred C. 3,017,828.
Chase, Corson W., Jasinowski, and Pedersen. 3,062,466.
Chase, Corson W., Jasinowski, and Pedersen. 3,062,467.
Crafts, Curtis S. 3,032,335.
Gore, Owen L. 3,051,479.
Hilgoe, Vernon J., and Markvaldas. 3,060,851.
Lawrence, Louis L. 3,032,340.
Mertz, Ralph F. 3,051,296.
Paschke, Frank R., and Wolf. 3,031,599.
Pasquinelli, Bruno B. 3,065,692.
Pedersen, Arne V., Peterson, and Hilgoe. 3,057,268.
Pedersen, Arne V., and Wirth. 3,024,395.
Sites, Benjamin L., and Agruss. 3,041,203.
Sites, Benjamin L., and Agruss. 3,047,422.
Sites, Benjamin L., and Agruss. 3,050,413.
Sites, Benjamin L., and Agruss. 3,051,591.
Sites, Benjamin L., and Agruss. 3,052,568.
Smith, Edwin K., Jr., and Anastasio. 3,048,388.
Thumim, Carl. 3,033,067.
Thumim, Carl. 3,042,760.
Thumim, Carl. 3,048,386.
Tyma, Louis S., Jr. 3,038,719.
Tyma, Louis S., Jr., and Peabody. 3,067,674.
Vischulis, George. 3,025,793.
Wickland, Joseph R. Re. 25,152.
Zernov, Peter, and Mahn. 3,053,468.
Zernov, Peter, and Traupmann. 3,052,183.
Zimmer, William G., Behringer, Hilgoe, and Sheffer. 3,039,387.
Zimmer, William G., Peterson, Loew, and Tyma. 3,067,-675.
Mierendorf, Robert C., to Square D Co. Electrical assembly. 3,065,385, 11–20–62, Cl. 317—101.
Mierendorf, Robert C., and C. F. Meyer, to Square D Co. Control circuit. 3,024,354, 3–6–62, Cl. 219—131.
Mierendorf, Robert C., and M. A. Guettel, to Square D Co. Control circuit. 3,034,024, 5–8–62, Cl. 317—148.5.
Miericke, Kurt A., to National Lead Co. Molding sand. 3,027,265, 3–27–62, Cl. 106—38.2.
Miers, Richard E. P., to Pullman (Patent) Products Ltd. Assembling of furniture spring interiors. 3,056,434, 10–2–62, Cl. 140—2.
Mierswa, Richard D., to Wallace & Tiernan Inc. Dihydrocodeinone resin complex suspensions. 3,035,984, 5–22–62, Cl. 167—82.
Mies, Arno : *See*—
Ahrens, Erhard, Schultes, Mies, and Kriebel. 3,045,206.
Mies, Carl P. Spraying device for liquid fertilizer. 3,042,-266, 7–3–62, Cl. 222—180.
Miescher, Guido M., to Commercial Solvents Corp. High test molasses in glutamic acid fermentation. 3,066,078, 11–27–62, Cl. 195—47.
Miesiak, Conrad E. : *See*—
Begian, Mehrin, and Miesiak. 3,026,890.
Miessner, Benjamin F., to The Wurlitzer Co. Electronic piano. 3,038,363, 6–12–62, Cl. 84—1.14.
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Mieville, Andre, to Mrs. M.-L. Spira-Klein. Small-sized drilling tool for the drilling of extremely hard materials. 3,051,025, 8–28–62, Cl. 77—67.
Migdal, Nicholas T., and D. R. Feller, to Aerojet-General Corp. Device for detecting small quantities of gas in a liquid. 3,060,722, 10–30–62, Cl. 73—19.
Mighell, Russell L., to Kewanee Machinery & Conveyor Co. Balanced conveyor hopper. 3,059,754, 10–23–62, Cl. 198—98.
Migneault, Fernand W. : *See*—
Migneault, Romuald and F. W. 3,015,134.
Migneault, Romuald and F. W. 3,017,212.
Migneault, Romuald and F. W. 3,030,654.
Migneault, Romuald and F. W. 3,031,726.
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Migneault, Romuald and F. W. Window panel divider. 3,015,134, 1–2–62, Cl. 20—52.
Migneault, Romuald and F. W. Panel locking means for sashless windows. 3,017,212, 1–16–62, Cl. 292—202.
Migneault, Romuald and F. W. Pressure applying device. 3,030,654, 4–24–62, Cl. 16—91.
Migneault, Romuald and F. W. Sashless window structure. 3,031,726, 5–1–62, Cl. 20—52.
Migneault, Romuald and F. W., and R. M. Wallace. Sashless window structure for combination doors. 3,060,525, 10–30–62, Cl. 20—36.
Mignot, Rene : *See*—
Vidal, Pierre, Mignot, and Brunelet. 3,052,557.
Mihailovitch, Ray V. : *See*—
Tsou, Kwan C., and Mihailovitch. 3,069,407.
Mihalakis, Agis I., J. L. Read, and J. L. Curtin, to W. J. Snyder Projection screens. 3,063,339, 11–13–62, Cl. 88—28.9.
Mihalyi, Joseph. Belt and buckle structure. 3,031,682, 5–1–62, Cl. 2—322.
Mihalyi, Joseph. Luggage buckle. 3,031,729, 5–1–62, Cl. 24—171.
Mihalyi, Joseph. Buckle structure. 3,063,116, 11–13–62, Cl. 24—170.
Mihara, Hajime, I. Miwa, K. Ueno, and S. Morita, to Toyo Koatsu Industries, Inc. Process for producing saturated aliphatic acids. 3,060,211, 10–23–62, Cl. 260—413.
Mihina, Joseph E., to G. D. Searle & Co. 3,17,20-trioxygenated 6β-chloro-3-methyl-19-nor-5β-pregn-9-enes. 3,029,260, 4–10–62, Cl. 260—397.4.
Mihm, Clifford H., P. F. Warner, and J. E. Duke, to Phillips Petroleum Co. Production of organic polysulfides. 3,022,351, 2–20–62, Cl. 260—608.
Mijs, Willem J. : *See*—
Szpilfogel, Stefan A., Mijs, De Flines, and van der Waard. 3,031,445.
Mika, Henry S., E. A. Stiegler, N. T. Kehoe, and H. C. Mehlenbacher, to United States Rubber Co. Automatic balance-indicating apparatus. 3,062,058, 11–6–62, Cl. 73—485.
Mikell, William G., to E. I. du Pont de Nemours and Co. Tire cord stress equalization process. 3,017,669, 1–23–62, Cl. 18—53.
Mikell, Winborn L., to Garlock, Inc. Solid ring floating packing. 3,050,311, 8–21–62, Cl. 277—157.
Mikes, Richard F. : *See*—
Smith, David C., and Mikes. 3,021,850.
Mikesell, Floyd L. Protective pad and method of forming the same. 3,050,746, 8–28–62, Cl. 5—317.
Miketta, C. A. : *See*—
Uproule, John. 3,035,277.
Miki, Tosaku : *See*—
Miyatake, Kazuo, Okano, Hoji, Miki, Sakashita, Oshima, and Kasahara. 3,023,147.
Mikina, John A., ½ to S. Mikina and ½ to Mrs. V. Mikina. Valve gear tappet for internal combustion engines. 3,038,-460, 6–12–62, Cl. 123—90.
Mikina, Stanley : *See*—
Mikina, John A. 3,038,460.
Mikina, Stanley J., to Westinghouse Electric Corp. Motion converting apparatus. 3,039,676, 6–19–62, Cl. 230—173.
Mikina, Stanley J., to Westinghouse Electric Corp. Compressor loaders-unloaders. 3,042,289, 7–3–62, Cl. 230—30.
Mikina, Mrs. Valerie : *See*—
Mikina, John A. 3,038,460.
Mikkelson, John E., deceased, by M. Mikkelson, special administratrix, to Gas or vapor to liquid contacting tray. 3,018,094, 1–23–62, Cl. 261—113.
Mikkelson, Magda : *See*—
Mikkelson, John E. 3,018,094.
Mikkola, John E., and S. F. Newman, to General Motors Corp. Electrical apparatus. 3,048,669, 8–7–62, Cl. 200—11.
Mikos, John J. : *See*—
Gussow, William A., and Mikos. 3,030,481.
Mikrovaerk A/S : *See*—
Jacobsen, Ib J. 3,067,859.
Miksis, Edward J. Folding roll. 3,019,014, 1–30–62, Cl. 270—61.
Mikulas, William, to Conmar Products Corp. Slide fasteners. Re. 25,223, 8–14–62, Cl. 24—205.15.
Mikulski, Richard R., to Metal Hydrides Inc. Metal plating by chemical reduction with amine boranes. 3,063,850, 11–13–62, Cl. 106—1.
Milam, David L., to Texas Instruments Inc. Semiconductor translating device with silicone fluid filler. 3,021,460, 2–13–62, Cl. 317—234.
Milam, David L., to Texas Instruments Inc. Ohmic contacts for silicon conductor devices and method for making. 3,021,595, 2–20–62, Cl. 29—473.1.
Milam, Earl K. Gutter bracket. 3,067,995, 12–11–62, Cl. 269—76.
Milan, Leo F. Jacks game. 3,017,182, 1–16–62, Cl. 273—1.
Milanese, Giovanni : *See*—
Odone, Giovanni, and Milanese. 3,039,900.
Milanese, William A., Jr. : *See*—
Hilpman, Paul, and Milanese. 3,024,895.
Hilpman, Paul, and Milanese. 3,068,999.
Milani, Virgil L., R. C. McGill, and L. E. Starr, to United States of America, Navy. Method of casting an explosive charge. 3,049,043, 8–14–62, Cl. 86—1.
Milas, Nicholas A., to Research Corp. Organic peroxides and methods of making them. 3,022,352, 2–20–62, Cl. 260—610.

Milazzo, Joseph S., to General Aniline & Film Corp. Process of preparing anthramid vat dyestuff. 3,023,220, 2–27–62, Cl. 260—316.
Milbank Mfg. Co., Inc.: *See*—
Waldrop, Robert F. 3,029,322.
Milberg, Marlyn W.: *See*—
Welsh, Jay Y., Milberg, and Peterson. 3,018,233.
Milberger, Ernest C., to The Standard Oil Co. Process for the manufacture of acrylonitrile. 3,050,546, 8–21–62, Cl. 260—465.3.
Milbourne, Charles G., to United Engineers & Constructors Inc. Process for fluid catalytic reforming of hydrocarbons to gas. 3,019,096, 1–30–62, Cl. 48—213.
Mildh, Gösta, to Aktiebolaget Svenska Flaktfabriken. Discharge device for pulverous or granular material. 3,039,-598, 6–19–62, Cl. 198—224.
Mildh, Gösta, to Svenska Flaktfabriken, Aktiebolaget. Transporting means for pulverous or granular materials. 3,065,-844, 11–27–62, Cl. 198—224.
Mileier, Francis G., to Heyl & Patterson, Inc. Froth flotation process. 3,048,272, 8–7–62, Cl. 209—166.
Milelr, Frederick L. B. Means for mounting and dismounting gears and the like on shafting. 3,033,597, 5–8–62, Cl. 287—53.
Miles, Charles B.: *See*—
Bryan, Loren A., and Miles. 3,031,497.
Miles, Clair E. Cable take-up device. 3,051,410, 8–28–62, Cl. 242—100.
Miles, Clifford L., to Eastman Kodak Co. Reflex finder having a trans-illuminated frame mark and limited diffusion of light. 3,057,249, 10–9–62, Cl. 88—1.5.
Miles, Duane O.: *See*—
Peris, Thomas A., and Miles. 3,033,027.
Miles, George D.: *See*—
Mosse, Richard W. E., Cookson, Virgo, and Miles. 3,058,-277.
Miles, George N.: *See*—
MacCracken, Calvin D., Rioux, Miles, and Hoffman. 3,034,414.
Miles, Gilbert D., to Colgate-Palmolive Co. Dispensing valve actuator. 3,062,411, 11–6–62, Cl. 222—143.
Miles, John E., to Aer-Van Inc. Roof type aerating device. 3,041,956, 7–3–62, Cl. 98—55.
Miles, John R.: *See*—
Bousky, Samuel, and Miles. 3,028,793.
Hurin, Edward F., and Miles. 3,052,155.
Miles, John R., to Sylvania Electric Products, Inc. Lens for projection and photography. 3,036,498, 5–29–62, Cl. 88—57.
Miles, Joseph P.: *See*—
Miles, Leroy E. and J. P. 3,048,067.
Miles Laboratories, Inc.: *See*—
Adams, Ernest C., Jr. 3,063,915.
Adams, Ernest C., Jr. 3,064,038.
Barton, Richard R. 3,048,492.
Bauer, Robert, and Mast. 3,016,292.
Borchert, Peter J. 3,021,329.
Borchert, Peter J. 3,025,271.
Collins, Galen F. 3,050,373.
Collins, Galen F. 3,051,661.
Collins, Galen F. 3,063,812.
Croxall, Willard J., and Dawson. 3,021,341.
Croxall, Willard J., and Dawson. 3,048,598.
Fancher, Otis E., and Hayao. 3,037,982.
Fancher, Otis E., and Nichols. 3,029,251.
Fancher, Otis E., Nichols, and Stauffer. 3,021,325.
Fancher, Otis E., and Schut. 3,029,241.
Fancher, Otis E., and Stauffer. 3,042,496.
Foster, James A., Sr., and Butler. 3,031,350.
Free, Alfred H. 3,061,523.
Hayao, Shin. 3,037,981.
Hayao, Shin. 3,038,901.
Olin, Stephen M. 3,029,243.
Rupe, Chauncey O. 3,048,475.
Schut, Robert N. 3,029,247.
Wilson, Christopher L. 3,034,999.
Zienty, Mitchell F. 3,037,987.
Miles, Leroy E. and J. P. Radiator cap tool. 3,048,067, 8–7–62, Cl. 81—3.1.
Miles, Oliver C.: *See*—
Haslam, Maurice B., and Miles. 3,048,830.
Miles, Raymond C., and J. G. Rubenson, to Cutler-Hammer, Inc. Gaging and machine tool control. 3,049,978, 8–21–62, Cl. 90—4.
Miles, Roger H., and G. E. Gress, to Gress-Miles Organ Co., Inc. Organ valve. 3,024,689, 3–13–62, Cl. 84—335.
Miles, William: *See*—
Hicks, Bruce C., and Miles. 3,047,769.
Milewski, John V., and W. O. Seals, to Thiokol Chemical Corp. Apparatus for impact testing. 3,056,279, 10–2–62, Cl. 73—35.
Miley, Franklin: *See*—
Anderson, John W., Miley, and Pritchard. 3,023,119.
Milford, Christopher M.: *See*—
Allen, Francis D., and Milford. 3,053,283.
Milford, George N., and W. K. Wilkinson, to E. I. du Pont de Nemours and Co. Process for copolymerizing acrylonitrile and vinyl pyridine. 3,065,211, 11–20–62, Cl. 260—85.5.
Milford, George N., and W. K. Wilkinson, to E. I. du Pont de Nemours and Co. Polymerization of acrylonitrile. 3,065,212, 11–20–62, Cl. 260—85.5.
Milford, James R.: *See*—
Brewer, Alan W., and Milford. 3,038,848.
Milford, Richard E., to General Electric Co. Cathode follower circuit having transistor feedback stabilization. 3,020,486, 2–6–62, Cl. 330—3.
Milford Rivet and Machine Co.: *See*—
Merwin, Frederick H 3,030,827.
Milgrom, Hymen T., and W. J. Heuboski. Vaginal diaphragm. 3,036,570, 5–29–62, Cl. 128—127.
Milhous, Samuel E. Cleaning device. 3,023,971, 3–6–62, Cl. 239—532.
Milian, Alwin S.: *See*—
Brehm, Warren J., and Milian. 3,053,823.
Milinowski, Arthur S., to Diapulse Mfg. Corp. of America. Treatment head for athermapeutic apparatus. 3,043,310, 7–10–62, Cl. 128—422.
Milinowski, Arthur S., Jr., E. L. McCarthy, and S. B. Fish, to The Perkin-Elmer Corp. Still camera lens attachment. 3,057,258, 10–9–62 Cl. 88—57.
Milio, James V., and R. N. Weland, to Union Carbide Corp. Sausage casing carton. 3,028,952, 4–10–62, Cl. 206—46.
Milion-Guiet-Tubauto: *See*—
Boutet, Paul. 3,028,606.
Milionis, Jerry P.: *See*—
Boyle, Richard J., and Milionis. 3,042,669.
Boyle, Richard J., and Milionis. 3,055,896.
Coleman, Ralph A., Arthen, Milionis, and Forster. 3,057,-921.
Milionis, Jerry P., and F. J. Arthen, to American Cyanamid Co. Vinylbenzyloxybenzophenones. 3,049,503, 8–14–62, Cl. 260—22.
Militana, Robert J. Combination hemostat and intravenous needle. 3,019,790, 2–6–62, Cl. 128—322.
Militano, Vincent, to Finkel Outdoor Products, Inc. Chairs with snap-on slats and such slats. 3,054,643, 9–18–62, Cl. 297—440.
Milito, Rudolph E.: *See*—
Lee, Warren G., and Milito. 3,029,158.
Militzer, Robert W.: *See*—
Peden, Douglas T., and Militzer. 3,067,547.
Milko Products, Inc.: *See*—
Ostrauh, Murray, and Angell. 3,034,905.
Milks, John E., to American Cyanamid Co. Method of producing boron-containing compounds. 3,047,623, 7–31–62, Cl. 260—551.
Milks, John E., V. P. Wystrach, and F. H. Siegele, to American Cyanamid Co. Sequestration of metal ions. 3,032,500, 5–1–62, Cl. 252—8.55.
Millan, Robert P., to Otto Items, Inc. Check valve construction. 3,037,522, 6–5–62, Cl. 137—493.2.
Millar, Donald O., and K. E. Kraemer, to Allis-Chalmers Mfg. Co. Floating bushing seal. 3,020,053, 2–6–62, Cl. 277—137.
Millar, George, to United Shoe Machinery Corp. Blank handling apparatus. 3,063,578, 11–13–62, Cl. 214—8.5.
Millar, Gordon H., to McCulloch Corp., Marine Products Division. Multiple engine speed control. 3,025,676, 3–20–62, Cl. 60—97.
Millar, John F., and G. Lindner, to Charles E. Frosst & Co. Penicillin-sulfonamide tablet. 3,018,221, 1–23–62, Cl. 167—65.
Millar, John F., and L. E. Findlay, to Charles E. Frosst & Co. Stable preparations of alkali metal salts of sodium etrone sulfate. 3,024,257, 3–6–62, Cl. 260—397.4.
Millar, John H., to Engineering Developments, Inc. Method of welding flexible metal pipe units and end fittings without the addition of weld material. 3,023,496, 3–6–62, Cl. 29—470.5.
Millar, William, to The United Kingdom Atomic Energy Authority, Patents Branch. Pressure gauges. 3,019,656, 2–6–62, Cl. 73—398.
Millard, Ralph S., and R. T. Carlson. Demountable metal partitions. 3,066,770, 12–4–62, Cl. 189—34.
Millard, Raymond P.: *See*—
Dawson, Joseph C., and Millard. 3,041,684.
Millenaar, Richard J., to Oscar Mayer & Co., Inc. Sausage linking machine. 3,059,272, 10–23–62, Cl. 17—34.
Miller, Albert A., to Self-Changing Gears Ltd. Automatic change speed gears. 3,051,021, 8–28–62, Cl. 74—751.
Miller, Albert A., to Self-Changing Gears Ltd. Fluid pressure control or servo systems. 3,058,374, 10–16–62, Cl. 74—754.
Miller, Albert E.: *See*—
Schmidt, Dagobert O., and Miller. 3,068,054.
Miller, Alexander A., to General Electric Co. Irradiation of organopolysiloxanes. 3,046,207, 7–24–62, Cl. 204—154.
Miller, Alfred I.: *See*—
Baldwin, Francis P., Robison, Miller, and Powers. 3,039,906.
Lobosco, Roscoe R., Royer, and Miller. 3,037,888.
Miller, Alfred L.: *See*—
Hunter, Edward A., Small, and Miller. 3,062,767.
Miller, Alfred L., to Esso Research and Engineering Co. Ion exchange treatment of butyl rubber latex and product thereof. 3,048,556, 8–7–62, Cl. 260—29.7.
Miller, Alfred L., S. B. Robison, and A. J. Petro, to Esso Research and Engineering Co. Decreasing the viscosity of butyl rubber latex by treatment with anion and cation exchange resins. 3,022,260, 2–20–62, Cl. 260—29.7.
Miller, Alfred L., F. P. Baldwin, and S. B. Robison, to Esso Research and Engineering Co. Laminated articles of manufacture. 3,052,580, 9–4–62, Cl. 154—52.

Miller, Alfred L., J. A. Rae, and A. W. Hubbard, to Esso Research and Engineering Co. Process for treating nylon fabric. 3,054,690, 9–18–62, Cl. 117—7.
Miller, Allan S., to Denco Miller Ltd. Refrigeration equipment. 3,060,704, 10–30–62, Cl. 62—503.
Miller, Andrew J. Boat hull construction. 3,046,926, 7–31–62, Cl. 114—61.
Miller, Andrew J., U. P. Nellis, and R. C. Waymire, to General Motors Corp. Method of polishing and deflashing molded plastic articles. 3,020,661, 2–13–62, Cl. 41—41.
Miller, Ansel D., to United States of America, Navy. Continuous loop tape mechanism and method of tape storage therefor. 3,049,309, 8–14–62, Cl. 242—55.01.
Miller, Anthony P., to Achilles Corp. Smoking device. 3,020,915, 2–13–62, Cl. 131—9.
Miller, Anthony P. Cigarette construction. 3,054,409, 9–18–62, Cl. 131—9.
Miller, Arthur, to Radio Corp. of America. Magnetic recording media. 3,047,505, 7–31–62, Cl. 252—62.5.
Miller, Arthur E., to Scott Aviation Corp. Quick-donning breathing mask. 3,037,501, 6–5–62, Cl. 128—141.
Miller, Arthur E., to Scott Aviation Corp. Emergency outlet. 3,064,854, 11–20–62, Cl. 220—89.
Miller, Arthur L. R. Collapsible casket. 3,045,314, 7–24–62, Cl. 27—2.
Miller, Beatrice E. : *See*—
Miller, Robert A. and B. E. 3,065,758.
Miller, Benard. Cigarette filter. 3,062,219, 11–6–62, Cl. 131—10.
Miller, Benjamin S. Artificial ice and snow and methods of making the same. 3,067,655, 12–11–62, Cl. 94—3.
Miller, Bernard, to American Cyanamid Co. Novel phosphorodithioates and methods for preparing the same. 3,019,-159, 1–30–62, Cl. 167—22.
Miller, Bernard, to American Cyanamid Co. Preparation of S-(1-alkenyl) phosphorodithioates. 3,021,352, 2–13–62, Cl. 260—461.
Miller, Bertram, Jr., and M. Seltzer. Shoestring fastening apparatus. 3,057,029, 10–9–62, Cl. 24—120.
Miller, Bonnie C. : *See*—
McDevitt, James A., and Miller. 3,042,103.
Miller Brewing Co. : *See*—
Koch, Gilbert H., Herwig, and Kissel. 3,044,879.
Miller, Cardell E., to Minnesota Mining and Mfg. Co. Connector. 3,058,088, 10–9–62, Cl. 339—97.
Miller, Carl A., to Economics Laboratory, Inc. Fluid injection system. 3,021,862, 2–20–62, Cl. 137—205.5.
Miller, Carl B. : *See*—
Schramm, Charles H., and Miller. 3,062,790.
Miller, Carl D. Intermittent film transport mechanism. 3,044,677, 7–17–62, Cl. 226—117.
Miller, Carl F. : *See*—
Lederer, Ernest A., and Miller. 3,037,834.
Miller, Carl J. : *See*—
Hulten, Richard E., and Miller. 3,049,938.
Miller, Carlos O. : *See*—
Strong, Frank M., Skogg, and Miller. 3,070,432.
Miller, Carroll deV. : *See*—
Horgan, Raymond G., Miller, and Brenner. 3,021,382.
Miller, Chalmer E., to National Coupling Co., Inc. Gasket. 3,058,752, 10–16–62, Cl. 277—171.
Miller, Charles, and P. Romanelli, to Ram Domestic Products Co. Electrical control system for gas burner assemblies. 3,062,276, 11–6–62, Cl. 158—124.
Miller, Charles C. : *See*—
Balish, Frank R., McGarrell, Miller, and Naylor. 3,023,371.
Miller, Charles D., to J. I. Case Co. Agricultural implement. 3,036,837, 5–29–62, Cl. 275—6.
Miller, Charles E., M. L. Robinson, and W. B. Woodring, to Olin Mathieson Chemical Corp. Ammunition. 3,055,301, 9–25–62, Cl. 102—42.
Miller, Charles L. Incubation. 3,038,443, 6–12–62, Cl. 119—1.
Miller, Charles S. Hand baggage. 3,061,057, 10–30–62, Cl. 190—44.
Miller, Chester L. Portable cover for small automobiles. 3,036,583, 5–29–62, Cl. 135—4.
Miller, Clair E. : *See*—
Smith, Miller, and Cray. 3,039,688.
Miller, Clarence H. : *See*—
Mueller, Otto, Miller, and Engelbrecht. 3,026,746.
Miller, Clarence L., Jr., and P. E. Perry, to Allegheny Ludlum Steel Corp. Method of treating steel. 3,039,902, 6–19–62, Cl. 148—113.
Miller, Clark O. : *See*—
Caro, Paul M., Miller, and Xavier. 3,051,553.
Prutton, Carl F., Miller, and Bryan. 3,062,897.
Miller, Clark O., to The Lubrizol Corp. Process for modification of olefin polymers. 3,020,271, 2–6–62, Cl. 260—139.
Miller, Clark O., to The Lubrizol Corp. Process for the preparation of organic phosphorus- and sulfur-containing compositions. 3,070,581, 12–25–62, Cl. 260—79.5.
Miller, Claude R. Method of freezing food products of small unit size and product obtained thereby. 3,030,214, 4–17–62, Cl. 99—192.
Miller and Co. : *See*—
O'Malley, John B. 3,022,510.
Miller Co., The : *See*—
Ogden, Frederic W., Pascucci, and Schiffer. 3,060,309.
Pascucci, Julio A. 3,019,333.
Pascucci, Julio A. 3,041,035.
Schiffer, Henry C. 3,019,332.

Miller, Dale O. Gear pump. 3,025,796, 3–20–62, Cl. 103—4.
Miller, David. Means for feeding fabricated material to a printing press. 3,038,721, 6–12–62, Cl. 271—62.
Miller, David J. : *See*—
Duncan, Richard L., Miller, Caldwell, Ruegg, and Flock. 3,016,704.
Miller, Delbert V. : *See*—
Mead, Donald F., and Miller. 3,069,683.
Miller, Donald, to Whiteley-Read Engineers Ltd. Roll bending machines for curving plate members. 3,016,082, 1–9–62, Cl. 153—54.
Miller, Donald A. Toilet seat covering device. 3,048,854. 8–14–62, Cl. 4—253.
Miller, Donald A. Toilet seat securing device. 3,056,972, 10–9–62. Cl. 4—253.
Miller, Donald D. : *See*—
Miller, William R. 3,033,315.
Miller, Donald E. : *See*—
Dahl, Robert R., and Miller. 3,031,858.
Miller, Donald E., ¼ to The Atchison, Topeka and Santa Fe Railroad Co., ¼ to New York Central Railway Co., ¼ to The Pennsylvania Railroad Co., and ¼ to Union Pacific Railroad Co. End connection for the crossbars of a freight supporting and restraining system. 3,017,841, 1–23–62, Cl. 105—369.
Miller, Donald E., to The Dole Valve Co. Gas water heater thermostat. 3,020,762, 2–13–62, Cl. 73—362.4.
Miller, Donald G., to Canadian Patents and Development Ltd. Method and apparatus for detecting hidden flaws in sheet like structures. 3,038,329, 6–12–62, Cl. 73—69.
Miller, Donald L., to The Bendix Corp. Automatically engaging and disengaging overrunning clutch. 3,016,122, 1–9–62, Cl. 192—104.
Miller, Donald W. : *See*—
Clarkson, Alick, and Miller. 3,051,146.
Miller, Earle C., to Riley Stoker Corp. Steam generating unit. 3,063,431, 11–13–62, Cl. 122—478.
Miller, Edgar S. : *See*—
Glickman, Samuel A., and Miller. 3,016,366.
Glickman, Samuel A., and Miller. 3,016,367.
Glickman, Samuel A., and Miller. 3,022,274.
Glickman, Samuel A., and Miller. 3,036,046.
Glickman, Samuel A., and Miller. 3,040,004.
Miller, Edgar W., and W. W. Toy, to Rohm & Haas Co. Paper products having a coating of mineral pigment in a binder of ammonium or amine salt of a copolymer of acrylic acid or methacrylic acid, acrylamide or methacrylamide, and a (C_1—C_4)-alkyl acrylate or methacrylate, and production thereof. 3,048,501, 8–7–62, Cl. 117—155.
Miller, Edna : *See*—
Miller, Walter. 3,028,853.
Miller, Eldon, Inc. : *See*—
Miller, Eldon R. 3,033,215.
Miller, Eldon, Jr., to Harbison-Walker Refractories Co. Aluminide refractories. 3,067,050, 12–4–62, Cl. 106—65.
Miller, Eldon R., to Eldon Miller, Inc. Tank cleaning system. 3,033,215, 5–8–62, Cl. 134—98.
Miller Electric Mfg. Co. : *See*—
Mulder, Allan C., and Rasmusen. 3,016,484.
Miller, Elmer C. : *See*—
Berger, Donald E., and Miller. 3,021,263.
Miller, Elmer C., to Phillips Petroleum Co. Method of operating on analyzer. 3,015,985, 1–9–62, Cl. 88—14.
Miller, Elmer C., and F. W. Karasek, to Phillips Petroleum Co. Optical oil change indicator. 3,049,964, 8–21–62, Cl. 88—14.
Miller Engineering Corp. : *See*—
Miller, Frank H., Jr. 3,045,802.
Miller, Ervin R. : *See*—
Cartwright, Bert W., Miller, and Iavelli. 3,053,115.
Miller, Eugene C. Differential torque equalizer. 3,034,322, 5–15–62. Cl. 64—26.
Miller, Eugene J. Adjustable end gate latching assembly for dump trucks. 3,062,587, 11–6–62, Cl. 298—38.
Miller, Floyd E. : *See*—
Blanchard, Roy L., and Miller. 3,045,457.
Miller, Floyd F., and A. F. Ekar, to Goodrich-Gulf Chemicals, Inc. Method of isolating olefin polymer from polymerization reaction mixture. 3,058,971, 10–16–62, Cl. 260—94.3.
Miller, Frances J. Flexible hair drying hood. 3,043,016, 7–10–62, Cl. 34—99.
Miller, Francis M. : *See*—
Elkin, Samuel, and Miller. 3,047,584.
Miller, Frank B. Grillwork panel and method for making same. 3,039,574, 6–19–62, Cl. 189—82.
Miller, Frank D., and C. R. Adler, to Eastman Kodak Co. Method of preparing photographic materials. 3,017,289, 1–16–62, Cl. 117—34.
Miller, Frank H., Jr., to Miller Engineering Corp. Method and apparatus for palletizing. 3,045,802, 7–24–62, Cl. 198—33.
Miller, Fred F., to Dana Corp. Double constant velocity universal joint. 3,017,755, 1–23–62, Cl. 64—21.
Miller, Frederick O., ½ to L. N. Miller. Die set comprising punches operable in a direction which has an angular relationship with the direction of the ram. 3,021,741, 2–20–62, Cl. 83—618.
Miller, Frederick O., ½ to Miller Pattern and Mfg. Co. Magnetic jaw liners. 3,065,960, 11–27–62, Cl. 269—276.
Miller, Galen L. Breathing apparatus. 3,064,646, 11–20–62, Cl. 128—145.

Miller, Garry V. Projection system. 3,051,043, 8–28–62, Cl. 88—24.
Miller, Gene C.: *See*—
Lanham, William E., and Miller. 3,056,482.
Miller, George D.: *See*—
La Tour, Harry, and Miller. Re. 25,300.
Miller, George E., and K. M. Carlisle; said Carlisle, assor. to said Miller. Coin catalog and record keeper. 3,049,045, 8–14–62, Cl. 88—14.
Miller, George E., Jr. Flexible container for leaders and the like. 3,062,475, 11–6–62, Cl. 242—85.1.
Miller, George F. Plant supporting means. 3,026,650, 3–27–62, Cl. 47—46.
Miller, George W., and F. L. Rose, to Imperial Chemical Industries Ltd. Triazolo-[2,3-c]-pyrimidines. 3,045,015, 7–17–62, Cl. 260—256.4.
Miller, George W., and F. L. Rose, to Imperial Chemical Industries Ltd. 6-hydrazinopyrimidine derivatives. 3,045,-016, 7–17–62, Cl. 260—256.4.
Miller, George W., and F. L. Rose, to Imperial Chemical Industries Ltd. s-triazolo-[2,3-c]pyrimidine derivatives. 3,046,276, 7–24–62, Cl. 260—256.4.
Miller, George W., and F. L. Rose, to Imperial Chemical Industries Ltd. Mono-acyl derivatives of s-triazolo [2,3-c] pyrimidines. 3,053,844, 9–11–62, Cl. 260—256.4.
Miller, Glenn E., to Western Electric Co., Inc. Apparatus for assembling helical springs on objects. 3,025,594, 3–20–62, Cl. 29—227.
Miller, Glenn E., to Western Electric Co., Inc. Device for securing terminals to wires. 3,031,002, 4–24–62, Cl. 153—1.
Miller, Gustave: *See*—
Cohen, Israel B., and White. 3,035,540.
Rendle, Harold A. 3,049,255.
Miller, Guy W., to United Aircraft Corp. Compressor bleed valve. 3,022,040, 2–20–62, Cl. 251—63.
Miller, Guy W., to United Aircraft Corp. Auxiliary control lever. 3,055,225, 9–25–62, Cl. 74—96.
Miller, Harold C., to Super-Cut, Inc. Method of mounting diamonds in tool blanks and other holders. 3,025,726, 3–20–62, Cl. 76—101.
Miller, Harold C., to Super-Cut, Inc. Composite diamond tool. 3,025,847, 3–20–62, Cl. 125—39.
Miller, Harold M.: *See*—
Hargreaves, Robert, and Miller. 3,035,398.
Miller, Harry, and G. F. Jude, to Sperry Rand Corp. Mach number apparatus. 3,023,616, 3–6–62, Cl. 73—178.
Miller, Harry B., to Clevite Corp. Ferrite transducers. 3,066,233, 11–27–62, Cl. 310—26.
Miller, Harry C. X-Ray protective combination lock dial assembly. 3,024,640, 3–13–62, Cl. 70—332.
Miller, Harry J.: *See*—
Miller, Marvin L. and H. J. 3,029,839.
Miller, Harry J. Fire escape. 3,033,308, 5–8–62, Cl. 182—48.
Miller, Harry J., Jr.: *See*—
Linsley, Douglas F., and Miller. 3,038,311.
Miller, Henry A. Jr., to Air Reduction Co., Inc. Fluid flow and pressure control systems. 3,019,804, 2–6–62, Cl. 137—64.
Miller, Henry A., Jr., to Air Reduction Co., Inc. Gas storage and delivery system. 3,044,486, 7–17–62, Cl. 137—505.42.
Miller, Henry C., to E. I. du Pont de Nemours and Co. Adducts of diborane with metal salts. 3,018,160, 1–23–62, Cl. 23—14.
Miller, Henry C., to E. I. du Pont de Nemours and Co. Boron compounds and their preparation. 3,051,546, 8–28–62, Cl. 23—14.
Miller, Henry S. Utility clamp. 3,050,326, 8–21–62, Cl. 294—15.
Miller, Henry W., ½ to J. H. P. Brown. Adjustable can top perforator. 3,015,886, 1–9–62, Cl. 30—6.1.
Miller, Herbert E.: *See*—
Johnson, Forrest A., and Miller. 3,056,962.
Miller, Herbert J., M. M. Behles, and J. B. Clark, to United States of America, Navy. Quick release fastening apparatus. 3,054,633, 9–18–62, Cl. 292—300.
Miller, Herman, Inc.: *See*—
Eames, Charles. 3,024,068.
Eames, Charles, and Albinson. 3,041,109.
Eames, Charles, and Albinson. 3,042,978.
Eames, Charles, Albinson, and Pearce. 3,043,640.
Eames, Charles, Albinson, and Pearce. 3,046,572.
Eames, Charles, and Price. 3,027,210.
Engel, Royce G., Jr., and Cowen. 3,039,727.
Nelson, George, and Pile. 3,043,642.
Nelson, George, and Pollock. 3,027,195.
Nelson, George, and Pollock. 3,032,307.
Miller, Howard J. Holder for a tissue carton, or the like. 3,035,803, 5–22–62, Cl. 248—313.
Miller, Howard L. and I. K. Single trigger mechanism for a two-barrel gun. 3,016,645, 1–16–62, Cl. 42—42.
Miller, Howard L., and I. K. Selective trigger mechanism. 3,057,101, 10–9–62, Cl. 42—42.
Miller, Ian M.: *See*—
Stammer, Charles H., and Miller. 3,049,475.
Miller, Ian M., to Merck & Co., Inc. Fermentation process for producing novobiocin. 3,049,476, 8–14–62, Cl. 195—80.
Miller Industries, Inc.: *See*—
Miller, James T. 3,053,353.
Miller, Irvin K.: *See*—
Miller, Howard L. and I. K. 3,016,645.
Miller, Howard L., and I. K. 3,057,101.
Miller, Israel, to The Globe Bedding Co, Ltd. Convertible Chesterfield and bed unit. 3,069,698, 12–25–62, Cl. 5—17.
Miller, Ivan O.: *See*—
Gibson, Wilfred C., McClintock, and Miller. 3,035,640.
Miller, Jack. Force feed fountain type brush. 3,061,868, 11–6–62, Cl. 15—539.
Millet, Jacques, to Societe le Carbone-Lorraine. Method for improving the frictional properties of carbon brushes by low pressure polyethylene impregnation. 3,049,448, 8–14–62, Cl. 117—228.
Miller, James A., to Clark Equipment Co. Control system for transmission. 3,025,723, 3–20–62, Cl. 74—732.
Miller, James C., to Radio Corp. of America. Negative resistance diode memory. 3,017,613, 1–16–62, Cl. 340—173.
Miller, James D., L. J. Gordon, and E. P. Davis, to Aerojet-General Corp. Gas depolarized battery. 3,043,898, 7–10–62, Cl. 136—86.
Miller, James L.: *See*—
Tuck, Harvey R., and Miller. 3,034,221.
Miller, James P.: *See*—
Thompson, William B., and Miller. 3,043,276.
Miller, James S.: *See*—
Boswell, David, and Miller. 3,065,390.
Miller, James S., to Armco Steel Corp. Blast furnace bell rod gas seal. 3,061,314, 10–30–62, Cl. 277—3.
Miller, James T., to Miller Industries, Inc. Frame for curtain wall construction. 3,053,353, 9–11–62, Cl. 189—34.
Miller, Jerry B., to E. I. du Pont de Nemours and Co. 3-chloro-2,2-dinitronorbornane compounds and process of preparing same. 3,038,927, 6–12–62, Cl. 260—464.
Miller, Jerry D. Stripe painting machine. 3,059,574, 10–23–62, Cl. 101—328.
Miller, John, and V. J. Russoman, to The F. & M. Schaefer Brewing Co. Conveyor keg palletizing device. 3,022,617, 2–27–62, Cl. 53—59.
Miller, John C., to Mine Safety Appliances Co. Helmet head positioner. 3,028,602, 4–10–62, Cl. 2—6.
Miller, John C., to Mine Safety Appliances Co. Pivotal connection between headgear and face shield. 3,037,236, 6–5–62, Cl. 16—140.
Miller, John F.: *See*—
Grebe, John J., and Miller. 3,044,756.
Miller, John G.: *See*—
Adams, Elmer L., and Miller. 3,029,471.
Miller, John G., Jr.: *See*—
Bostian, Logan C., Joris, and Miller. 3,070,627.
Miller, John H., to Daystrom Inc. A.-C. calibrating apparatus. 3,035,227, 5–15–62, Cl. 324—74.
Miller, John H., Coaster. 3,040,472, 6–26–62, Cl. 45—68.4.
Miller, John H., and M. O. Helms, to Mold-A-Rama, Inc. Apparatus for molding hollow plastic products. 3,068,518, 12–18–62, Cl. 18—26.
Miller, John I. Automatic clutch kickout. 3,042,376, 7–3–62, Cl. 254—187.
Miller, John L.: *See*—
Meyers, Joseph. 3,031,036.
Miller, John P., III: *See*—
Mayhew, Raymond L., Miller, and Kopp. 3,018,251.
Miller, John R.: *See*—
Helmaster, John W., and Miller. 3,056,952.
Miller, John R., to United Aircraft Corp. Heat exchanger. 3,055,641, 9–25–62, Cl. 257—235.
Miller, John S., to The McKay Machine Co. Rim rolling mill. 3,046,819, 7–31–62, Cl. 80—5.
Miller, John S., Jr., to Pratt Mfg. Corp. Turning and conveying mechanism for flat lightweight items. 3,044,600, 7–17–62, Cl. 198—33.
Miller, John W., to Phillips Petroleum Co. Photometric-coulometric bromine number titrator. 3,030,280, 4–17–62, Cl. 204—1.
Miller, Joseph R.: *See*—
Firnhaber, Miles S., and Miller, and Kovach. 3,048,886.
Miller, Julius J., ½ to E. Foster. Child's blanket. 3,060,-462, 10–30–62, Cl. 5—334.
Miller, Kay, to A. F. Wintercorn. Power mowers. 3,058,286, 10–16–62, Cl. 56—26.5.
Miller, Kenneth, to Rolls-Royce Ltd. Temperature responsive throttle for combustion chamber cooling air. 3,057,158, 10–9–62, Cl. 60—39.66.
Miller, Kenneth. Method for the filling and sealing of pressure vessels. 3,065,583, 11–27–62, Cl. 53—7.
Miller, Kenneth P., to Phillips Petroleum Co. Method for bonding support rods in propellant grains. 3,021,748, 2–20–62, Cl. 86—1.
Miller, Kermit D.: *See*—
Peterman, Milton J., and Miller. 3,017,023.
Miller, Lalan G.: *See*—
Colaiaco, August P., Miller, and Cham. 3,018,417.
Miller, Lalan G., to Westinghouse Electric Corp. Component monitoring circuit. 3,040,309, 6–19–62, Cl. 340—250.
Miller-Lauffer Printing Equipment Corp.: *See*—
Arnell, Alvin, and Berger. 3,070,298.
Miller, Lawrence O., J. W. Schick, and R. L. McLaughlin, to Socony Mobil Oil Co. Inc. Rocket propulsion method using 1,1,3-trimethyl-3-cyclohexylhydrindane. 3,027,707, 4–3–62, Cl. 60—35.4.
Miller, Lee A.: *See*—
Butler, John M., Miller, and Wesp. 3,068,200.
Butler, John M., Miller, and Wesp. 3,068,208.
Miller, Lee A., to Monsanto Chemical Co. Carboxylatevinyl and carboxyvinyl ethers of sugars and method of preparation. 3,022,285, 2–20–62, Cl. 260—209.

Miller, Lee A., to Monsanto Chemical Co. Process for preparing carboxylatevinyl and carboxyvinyl ethers of polysaccharides. 3,022,288, 2–20–62, Cl. 260—231.

Miller, Lee A., to Monsanto Chemical Co. Novel ethylenic compounds. 3,022,293, 2–20–62, Cl. 260—239.3.

Miller, Lee A., to Monsanto Chemical Co. (Halophenylthio)-haloacrylates. 3,040,086, 6–19–62, Cl. 260—470.

Miller, Lee A., to Monsanto Chemical Co. Norbornene and tricycloheptane ether-esters. 3,053,882, 9–11–62, Cl. 260—468.

Miller, Lee A., to Monsanto Chemical Co. Sulfur-containing carboxylates. 3,065,129, 11–20–62, Cl. 167—30.

Miller, Lee A., to Monsanto Chemical Co. Haloalkyl propiolates and biological toxicants comprising same. 3,068,143, 12–11–62, Cl. 167—22.

Miller, Lee A., to Monsanto Chemical Co. Benzothiazole-, benzoxazole- and benzimidazole-2-thioacrylates and process. 3,068,239, 12–11–62, Cl. 260—306.

Miller, Lee A., to Monsanto Chemical Co. Aminobicycloheptene/bicycloxides and aminobicycloheptane carboxylates. 3,068,276, 12–11–62, Cl. 260—468.

Miller, Lee A., to Monsanto Chemical Co. Method of inhibiting and destroying the growth of undesirable plants. 3,070,431, 12–25–62, Cl. 71—2.3.

Miller, Lee A., and G. H. Birum, to Monsanto Chemical Co. Process for preparing organic compounds of phosphorus and sulfur. 3,059,014, 10–16–62, Cl. 260—461.

Miller, Lee F., to United States of America, Army. Automatic chart reader. 3,052,800, 9–4–62, Cl. 250—219.

Miller, Lee S., to Sperry Rand Corp. Broadband selective polarization antenna system. 3,029,431, 4–10–62, Cl. 343—756.

Miller, Leo D. Anti-blowout flare. 3,036,451, 5–29–62, Cl. 67—21.

Miller, Leon F., to The Osborn Mfg. Co. Fluid weight jolt molding machine. 3,025,578, 3–20–62, Cl. 22—45.

Miller, Leon R., and C. M. Taylor, to Rezolin Inc. Drill guide bushing. 3,026,749, 3–27–62 ,Cl. 77—62.

Miller, Leonidas C. Coaxial cable assembly. 3,022,368, 2–20–62, Cl. 174—15.

Miller, Li Ko, to Precision Equipment Co., Inc. Check valve. 3,051,196, 8–28–62, Cl. 137—516.29.

Miller, Lester M.: *See*—
Pearce, George C., McDonnold, and Miller. 3,051,817.

Miller, Lewis F.: *See*—
Blake, Carl B., and Miller. 3,054,751.

Miller, Lloyd E., and H. J. Baldwin. Tool tray. 3,026,159, 3–20–62, Cl. 311—21.

Miller, Lloyd G.: *See*—
Bradley, Robert W., and Miller. 3,031,986.
Bradley, Robert W., and Miller. 3,031,987.

Miller, Lloyd G., to United Shoe Machinery Corp. Needle guide for shoe sewing machines. 3,048,133, 8–7–62, Cl. 112—35.

Miller, Lloyd G., to United Shoe Machinery Corp. Welt attaching machines. 3,064,595, 11–20–62, Cl. 112—46.

Miller, Lloyd G., to United Shoe Machinery Corp. Welt attaching machines. 3,064,596, 11–20–62, Cl. 112—46.

Miller, Lloyd G., to United Shoe Machinery Corp. Welt attaching machines. 3,068,815, 12–18–62, Cl. 112—46.

Miller, Lloyd G., and R. W. Bradley, to United Shoe Machinery Corp. Shoe machines with automatic welt severing mechanisms. 3,055,323, 9–25–62, Cl. 112—46.

Miller, Lloyd W., to Specialty Mfg. Co. Combined scoop and garden cart. 3,037,308, 6–5–62, Cl. 37—130.

Miller, Louis C. Vehicle tent and tent carrier. 3,050,074, 8–21–62, Cl. 135—1.

Miller, Louis J.: *See*—
Heffley, Ernest L., and Miller. 3,053,221.

Miller, Louis N.: *See*—
Miller, Frederick O. 3,021,741.

Miller, Lowell E.: *See*—
Erikson, Evans W., Miller, and Schmitz. 3,064,189.

Miller Lubricator Co.: *See*—
Harkenrider, Robert J. 3,020,103.

Miller Mfg. Co.: *See*—
Burcham, Harry L. 3,035,621.

Miller, Martin, Aktiengesellschaft: *See*—
Titze, Karl. 3,021,737.

Miller, Marvin L. and H. J. Valves. 3,029,839, 4–17–62, Cl. 137—596.2.

Miller, Mary L., to American Cyanamid Co. Preparation of branched polymers. 3,021,269, 2–13–62, Cl. 204—154.

Miller, Matthew: *See*—
Dickson, William M., Jr., and Miller. 3,023,739.
Samuel, Hubert D., Jr., and Miller. 3,023,740.

Miller, Max W., to Chas. Pfizer & Co. Inc. N,N′,N″-trisubstituted oxyaspartamides. 3,064,047, 11–13–62, Cl. 260—559.

Miller, Meritt L., and F. H. Wright, to General Electric Co. Motor testing apparatus. 3,052,117, 9–4–62, Cl. 73—116.

Miller, Mike A.: *See*—
McNamara, James H., Caprio, and Miller. 3,035,932.

Miller, Myron M., R. J. McFalls, and R. L. Huntley, to Cluett, Peabody & Co., Inc. Pre-tied four-in-hand neckties. 3,031,679, 5–1–62, Cl. 2—153.

Miller, Nickolas P. Dual hydraulic master cylinder and brake system. 3,021,677, 2–20–62, Cl. 60—54.6.

Miller, Nikoli. Shrimp peeling, deveining and tail removing machine. 3,040,374, 6–26–62, Cl. 17—2.

Miller, Orville C., to Carr Lane Mfg. Co. Gusseted angle for jig construction and the like. 3,039,570, 6–19–62, Cl. 189—34.

Miller Pattern and Mfg. Co.: *See*—
Miller, Frederick O. 3,065,960.

Miller, Paul C. Automatic revolver with recoiling cylinder frame. 3,055,270, 9–25–62, Cl. 89—157.

Miller, Paul J.: *See*—
Marette, Ralph T., and Miller. 3,032,051.

Miller, Paul W. Vertical broiler with food grill. 3,056,344, 10–2–62, Cl. 99—290.

Miller, Paul W. Charcoal conditioner. 3,062,200, 11–6–62, Cl. 126—25.

Miller, Phil H.: *See*—
Pierce, Leonard, Jr., and Miller. 3,027,394.

Miller, Philip: *See*—
Byrnes, James J., and Miller. 3,030,810.

Miller, Phillip, to Hicks & Otis Prints, Inc. Ornamentation of resilient absorbent materials. 3,070,476, 12–25–62, Cl. 154—48.

Miller, Philip A., and J. R. D. McCormick, to American Cyanamid Co. Production of 5-hydroxytetracycline. 3,023,248, 2–27–62, Cl. 195—80.

Miller, Philip A., and J. R. D. McCormick, to American Cyanamid Co. Biological conversion of anhydrotetracyclines to tetracyclines. 3,053,740, 9–11–62, Cl. 195—80.

Miller Printing Machinery Co.: *See*—
Siebke, Carl O. 3,048,098.

Miller, Raleigh A., to United States Steel Corp. Method of making tin-plate. 3,058,856, 10–16–62, Cl. 148—16.

Miller, Ralph. Load accelerator for supercharged engine. 3,015,934, 1–9–62, Cl. 60—13.

Miller, Ralph. Matched turbocharger and engine. 3,029,594, 4–17–62, Cl. 60—13.

Miller, Ralph D.: *See*—
Stanford, Warren E., and Miller. 3,033,670.

Miller, Ralph L., to Sarkes Tarzian, Inc. Semiconductor device. 3,066,248, 11–27–62, Cl. 317—234.

Miller, Ralph P., to Bell Telephone Laboratories, Inc. Balanced transistor switching circuits. 3,030,524, 4–17–62, Cl. 307—88.5.

Miller, Raphael W. Weight lifting construction. 3,022,073, 2–20–62, Cl. 272—84.

Miller, Raul A.: *See*—
Gerstenmaier, John H., Leo, Miller, and Shaul. 3,042,974.

Miller, Raymond H.: *See*—
Smith, John H., and Miller. 3,047,119.

Miller, Raymond J., and J. R. Stevenson, to Ford Motor Co. Offset tractor with means for carrying and operating a hydraulic lift assembly. 3,023,818, 3–6–62, Cl. 172—439.

Miller, Retha, ½ to C. A. Silva. Chair-bed combination. 3,053,568, 9–11–62, Cl. 297—78.

Miller, Richard A., to E. I. du Pont de Nemours and Co. Textile. 3,053,609, 9–11–62, Cl. 8—128.

Miller, Richard C., and E. J. Toton, to General Motors Corp. Proximity switch. 3,050,662, 8–21–62, Cl. 317—148.5.

Miller, Richard D., to Lennox Industries, Inc. Multiple interlock control circuit for plural furnace units. 3,028,093, 4–3–62, Cl. 236—1.

Miller, Richard G. Greenhouse flat carrier. 3,061,350, 10–32–62, Cl. 294—16.

Miller, Robert: *See*—
Feuer, Henry, and Miller. 3,024,289.
Feuer, Henry, and Miller. 3,040,099.
Feuer, Henry, and Miller. 3,066,169.
Katchen, Bernard, and Miller. 3,041,289.

Miller, Robert A., to Joy Mfg. Co. Rod puller. 3,017,681, 1–23–62, Cl. 24—254.

Miller, Robert A., V. E. Munson, H. M. Owendoff, and C. M. Taris, to Bell Telephone Laboratories, Inc. Announcing system. 3,022,380, 2–20–62, Cl. 179—6.

Miller, Robert A. and B. E. Method and apparatus for straightening and waving hair. 3,065,758, 11–27–62, Cl. 132—34.

Miller, Robert C.: *See*—
Colwell, Charles E., and Miller. 3,020,231.
Cornish, Albert J., and Miller. 3,018,312.

Miller, Robert C. Method of preparing a stable liquid fertilizer from wet-process phosphoric acid. 3,022,153, 2–20–62, Cl. 71—29.

Miller, Robert D., to Monsanto Chemical Co. Iodosobenzene esters. 3,053,888, 9–11–62, Cl. 260—515.

Miller, Robert E., to Monsanto Chemical Co. Nitrobenzoates of iodosobenzene. 3,053,889, 9–11–62, Cl. 260—515.

Miller, Robert K.: *See*—
Frank, Gerard A., Miller, and Monahan. 3,058,569.

Miller, Robert K., to Western Electric Co., Inc. Automatic feed control mechanism. 3,017,060, 1–16–62, Cl. 226—10.

Miller, Robert N.: *See*—
Fenske, Donald M., Fedrick, and Miller. 3,068,575.

Miller, Robert P., to Daryl Industries, Inc. Releasable latch assembly. 3,050,322, 8–21–62, Cl. 292—114.

Miller, Roland E., to National Dairy Products Corp. Marking apparatus. 3,023,698, 3–6–62, Cl. 101—291.

Miller, Roland E., and C. G. Tumino, to National Dairy Products Corp. Packaging apparatus. 3,027,699, 4–3–62, Cl. 53—236.

Miller, Rolford D. Newspaper receptacle. 3,042,293, 7–3–62, Cl. 232—17.

Miller, Ross J., to E. I. du Pont de Nemours and Co. Explosive device. 3,020,844, 2–13–62, Cl. 102—27.

Miller, Ross J., and G. A. Noddin, to E. I. du Pont de Nemours and Co. Blasting device. 3,021,786, 2–20–62, Cl. 102—27.

Miller Rudolph. Brush attachment. 3,061,864, 11–6–62, Cl. 15—248.
Miller, Rufus E., to Great Western Mfg. Co. Sifter drive. 3,032,200, 5–1–62, Cl. 209—366.
Miller, Samuel. Combination box and box-insert. 3,047,135. 7–31–62, Cl. 206—45.14.
Miller, Samuel A., and J. G. Waller. Double hydrates. 3,059,033, 10–16–62, Cl. 260—652.
Miller, Samuel E., to Textile Sales Co. Waistband with frictional means. 3,052,890, 9–11–62, Cl. 2—236.
Miller, Sheldon M. Chest support for portable equipment. 3,054,543, 9–18–62, Cl. 224—5.
Miller, Solomon L., to International Business Machines Corp. Negative resistance semiconductor circuit utilizing four-layer transistor. 3,036,226, 5–22–62, Cl. 307—88.5.
Miller Spreader Corp., The: *See*—
Jennings, Charles E., Jr. 3,053,156.
Miller, Stewart E., to Bell Telephone Laboratories, Inc. Wave mode converter. 3,020,495, 2–6–62, Cl. 333—10.
Miller, Stewart E., to Bell Telephone Laboratories, Inc. Microwave ferrite switch. 3,064,214, 11–13–62, Cl. 333—98.
Miller, Teddy, J. H. Anderson, and D. J. Rosbe, to Continental Can Co., Inc. Can end coating nozzle. 3,015,302, 1–2–62, Cl. 118—318.
Miller, Teddy, J. H. Anderson, and D. J. Rosbe, to Continental Can Co., Inc. Coated can end and coating method. 3,019,938, 2–6–62, Cl. 220—81.
Miller, Theodore G., Jr., to Space-Tone Electronics Corp. Full extension drawer slide assembly. 3,059,986, 10–23–62, Cl. 312—338.
Miller, Thomas F. Oil separator for refrigeration system. 3,021,689, 2–20–62, Cl. 62—192.
Miller, Thomas P.: *See*—
Duncan, Robert H., Miller, Maciulis, and Fudaley. 3,060,265.
Miller, Verle A., R. R. Brown, and E. B. Gienger, Jr., to International Latex Corp. Carboxylic elastomers. 3,067,180, 12–4–62, Cl. 260—78.3.
Miller, Victor A., and R. B. Horsfall, Jr., to North American Aviation, Inc. Radiant energy scanning system. 3,018,378, 1–23–62, Cl. 250—236.
Miller, Wade M., to American Telephone and Telegraph Co. Conference telephone apparatus. 3,050,584, 8–21–62, Cl. 179—1.
Miller, Wallace W. Sealing means for swinging doors and windows. 3,024,504, 3–13–62, Cl. 20—69.
Miller, Wallace W. Sliding clothes hanger assembly. 3,027,015, 3–27–62, Cl. 211—94.
Miller, Wallace W. Sill assembly for exterior openings. 3,052,839, 5–8–62, Cl. 20—84.
Miller, Wallace W. Weatherproofing bottom member for doors and windows. 3,064,319, 11–20–62, Cl. 20—35.
Miller, Walter, deceased; by E. Miller, executrix. Grinding wheel dressing fixture for surface grinders. 3,028,853, 4–10–62, Cl. 125—11.
Miller, Walter A., and W. L. Calvert, to Union Carbide Corp. Viscosimeter. 3,053,079, 9–11–62, Cl. 73—60.
Miller, Walter C., and H. O. Schmitt, Jr., to Eastman Kodak Co. Variable mask for telescopic finder. 3,033,072, 5–8–62, Cl. 88—1.5.
Miller, Walter C., and H. O. Schmitt, Jr., to Eastman Kodak Co. Camera cover lock and footage indicator mechanism. 3,062,117, 11–6–62, Cl. 95—31.
Miller, Walter L. Reduction of tank corrosion. 3,024,617, 3–13–62, Cl. 62—54.
Miller, Walter S. Toy ball projector. 3,051,487, 8–28–62, Cl. 273—87.2.
Miller, Ward B., and W. H. Ewing, to Owens-Corning Fiberglas Corp. Flying cutter carriage having mechanical means to vary the instantaneous angular speed of the cutter carriage drive shaft. 3,068,732, 12–18–62, Cl. 83—305.
Miller, Warren P.: *See*—
Williams, Ralph E., and Miller. 3,039,819.
Miller, Wendell S. Electronic computer. 3,015,443, 1–2–62, Cl. 235—164.
Miller, Wendell S. Card recording and scanning apparatus. 3,048,997, 8–7–62, Cl. 101—47.
Miller, Wesley C. Nuclear electromagnetic resonator. 3,050,627, 8–21–62, Cl. 250—83.3.
Miller, Wilbur A., and E. B. Gienger, Jr., to International Latex Corp. Deposited latex articles. 3,017,889, 1–23–62, Cl. 128—521.
Miller, Wilbur G., and T. R. McKenzie. Shaver arch gage. 3,069,780, 12–25–62, Cl. 33—185.
Miller, Wilbur H.: *See*—
Kohler, August R., Miller, and Windlan. 3,050,401.
Miller, William A.: *See*—
Jueng, Carl F., and Miller. 3,040,646.
Miller, William E., to Chrysler Corp. Mass transfer inhibitor for liquid metal heat transfer system. 3,036,011, 5–22–62, Cl. 252—71.
Miller, William J. Plywood lay-up machine. 3,027,019, 3–27–62, Cl. 214—6.
Miller, William J., and W. Schroeder, to Western Supplies Co. Shoe pressing machine. 3,023,436, 3–6–62, Cl. 12—53.5.
Miller, William N., Jr., to Shop-O-Rama, Inc. Optical projection display apparatus. 3,030,855, 4–24–62, Cl. 88—16.2.
Miller, William R.: *See*—
Long, James, and Miller. 3,032,698.
Reed, John W., Halvorsen, Hold, and Miller. 3,050,837.
Miller, William R., 45% to C. R. Rust, and 10% to D. D. Miller. Fluid proportioning device. 3,033,315, 5–8–62, Cl. 184—7.
Miller, William R., to General Electric Co. Unsymmetrical stabilization. 3,046,464, 7–24–62, Cl. 318—207.
Miller, William R., G. B. Anderson, F. E. Compton, and P. Hold, to Consolidated Machine Tool Division of Farrel-Birmingham Co., Inc. Boring machine. 3,037,402, 6–5–62, Cl. 77—4.
Miller, William R., and A. R. Konecny, ½ to C. R. Rust. Compound angle gage. 3,054,190, 9–18–62, Cl. 33—185.
Miller, William S., and K. Wild, to Calico Printers' Association, Ltd. Wrinkle resistant cellulose fabric and method of production. 3,041,199, 6–26–62, Cl. 117—62.
Miller, William T., and W. J. Middleton, to E. I. du Pont de Nemours and Co. Secondary and tertiary bis-polyfluoroorganic mercury compounds. 3,048,609, 8–7–62, Cl. 260—431.
Miller, William W.: *See*—
Robbins, James S. 3,061,287.
Robbins, James S. 3,061,288.
Robbins, James S. 3,061,289.
Miller Wrapping & Sealing Machine Co.: *See*—
Arvidson, Bengt A. 3,019,584.
Millerbernd, Paul A. Device for preventing cave-ins. 3,029,607, 4–17–62, Cl. 61—41.
Milleron, Norman, to United States of America, Atomic Energy Commission. Apparatus for vacuum deposition of metals. 3,024,965, 3–13–62, Cl. 230—69.
Milleron, Norman, to United States of America, Atomic Energy Commission. Method for pumping gases at low vacuum pressures. 3,037,685, 6–5–62, Cl. 230—69.
Milleron, Norman, to United States of America, Atomic Energy Commission. Vacuum sealing means for low vacuum pressures. 3,038,731, 6–12–62, Cl. 277—22.
Millerville, Bertram J., to The Ohio Injector Co. Plug valve. 3,051,190, 8–28–62, Cl. 137—246.18.
Millet, Jacqueson, to Societe le Carbone-Lorraine. Carbon brushes. 3,046,425, 7–24–62, Cl. 310—228.
Milleville, Bertram J., to United States of America, Atomic Energy Commission. Fluid flow control device. 3,049,150, 8–14–62, Cl. 137—625.32.
Millevilleville, Maurice J. Fuel injection nozzle. 3,053,463, 9–11–62, Cl. 239—584.
Millham, Robb L.: *See*—
Goetter, William F., and Millham. 3,066,210.
Millheiser, Melvin, to Kohinoor, Waldes, Inc. Bolt and shear sleeve with shear sleeve retracting means. 3,062,253, 11–6–62, Cl. 151—69.
Millhoff, Ernest A.: *See*—
MacMillan, Kenneth T., and Millhoff. 3,015,846.
Millich, Thomas L. Sheet folding apparatus and method. 3,055,276, 9–25–62, Cl. 93—49.
Milligan, Gaymond E. Roving cutter. 3,034,213, 5–15–62, Cl. 30—128.
Milligan, Gordon C.: *See*—
Herdle, Lloyd E., and Milligan. 3,062,679.
Milligan, John G., to Jefferson Chemical Co. Inc. Corrosion inhibition. 3,038,856, 6–12–62, Cl. 252—8.55.
Milligan, John G., to Jefferson Chemical Co., Inc. Method for preparing 1,5-pentanediols. 3,046,311, 7–24–62, Cl. 260—635.
Millikan, Allen F., to The Pure Oil Co. Purification of m-cresol from mixtures of m-cresol and p-cresol. 3,031,383, 4–24–62, Cl. 202—42.
Millikan, Allen F., to The Pure Oil Co. Preparation of hexamethylenetetramine. 3,061,608, 10–30–62, Cl. 260—248.6.
Milliken, Thomas H., Jr.: *See*—
Donovan, Joseph J., Heinemann, and Milliken. 3,034,932.
Millikin, Max E. Sanitizing device for dairy cows. 3,050,766, 8–28–62, Cl. 15—264.
Millington, Alfred F.: *See*—
Welch, Lewis W., and Millington. 3,018,711.
Welch, Lewis W., Millington, and Adler. 3,058,356.
Millington, Alfred F., and G. E. Hebert, to Novi Equipment Co. Magnetic clutch structure. 3,036,679, 5–29–62, Cl. 192—84.
Millington, John H. T., and S. Fein, to Westinghouse Electric Corp. Extended surface fins for heat exchange tubes. 3,068,905, 12–18–62, Cl. 138—38.
Millington, Ralph B., and C. P. Cappellino, to Wood Flong Corp. Flong. 3,061,897, 11–6–62, Cl. 22—5.5.
Millis, Edwin G.: *See*—
Bickel, Richard L., Brooke, Day, McDonald, Millis, and Nygaard. 3,039,604.
Millis, Edwin G., to Texas Instruments Inc. Multiple punching machine for paper tape cards etc. 3,022,200, 2–20–62, Cl. 234—114.
Millis, Edwin G., to Texas Instruments Inc. Transistor direct current motor control. 3,022,454, 2–20–62, Cl. 318—257.
Millis, Edwin G., to Texas Instruments Inc. Inkless recording method. 3,063,050, 11–6–62, Cl. 346—1.
Millis, Keith D., to The International Nickel Co., Inc. Nickel-magnesium addition alloy. 3,030,205, 4–17–62, Cl. 75—130.
Millis, Walter T., to General Electric Co. Electron discharge rectifier. 3,048,726, 8–7–62, Cl. 313—3.
Millman, Max, to Rau Findings Co. Turn locks. 3,025,093, 3–13–62, Cl. 292—204.

Millman, Nathan, to Ortho Pharmaceutical Corp. Soporific compositions. 3,034,958, 5–15–62, Cl. 167—52.

Millman, William V.: *See*—
Greene, Earnest J., and Millman. 3,063,682.

Millman, William V., to American Air Filter Co., Inc. Mounting arrangement. 3,025,122, 3–13–62, Cl. 312—245.

Milner, Elliott: *See*—
Birnbach, Richard R., and Millner. 3,024,342.

Mills, Aubrey R., to Die Casting Machine Tools Ltd. Toy gun with dummy bullet using deformable vegetable matter. 3,049,828, 8–21–62, Cl. 42—54.

Mills, Aubrey R., and E. A. R. Mace, to Die Casting Machine Tools Ltd. Fluid pressure operated die casting machines, presses, moulding machines and the like. 3,029,483, 4–17–62, Cl. 22—68.

Mills, Bert E., to The Seeburg Corp. Brewer for coffee dispensing machines. 3,053,168, 9–11–62, Cl. 99—289.

Mills, Clarence A., to Reflectotherm, Inc. Chilling and freezing systems. 3,027,734, 4–3–62, 4–3–62, Cl. 62—375.

Mills, Clarence A., to Reflectotherm, Inc. Ultra-long infrared heat ray emitter. 3,045,100, 7–17–62, Cl. 219—34.

Mills, David A., to Owens-Illinois Glass Co. Venting closure cap. 3,059,800, 10–23–62, Cl. 215—56.

Mills, Derek J., and G. W. Tice, deceased (by E. A. Tice, administratrix), to B.X. Plastics Ltd. Two-roll mills. 3,051,985, 9–4–62, Cl. 18—2.

Mills, Donald C., to Federal Pacific Electric Co. Circuit breaker. 3,041,431, 6–26–62, Cl. 200—170.

Mills, Edward C., and J. P. B. Keith, to C.I.C. Engineering Ltd. Apparatus for use in the manufacture of vulcanised footwear. 3,037,243, 6–5–62, Cl. 18—17.

Mills, Edward J., Jr., and W. J. Tapp, to Union Carbide Corp. Alkaline stabilization of polyoxyalkylene glycols. 3,030,425, 4–17–62, C. 260—611.5.

Mills, George A.: *See*—
Erner, William E., Green, and Mills. 3,050,523.
Hindin, Saul G., and Mills. 3,016,354.
Lorz, Waldemar, Mills, and Shalit. 3,064,062.

Mills, George A., to Houdry Process Corp. Magnesia modified kaolin catalyst. 3,017,370, 1–16–62, Cl. 252—450.

Mills, Ian M., to Mills Products, Inc. Removable handle assembly for stove doors. 3,017,657, 1–23–62, Cl. 16—114.

Mills, Herbert E., to Mills Products, Inc. Stove door window unit. 3,021,832, 2–20–62, Cl. 126—200.

Mills, Herbert E. Fishing lure. 3,069,801, 12–25–62, Cl. 43—42.33.

Mills, Herbert E., to Mills Products Inc. Oven door window unit. 3,070,085, 12–25–62, Cl. 126—200.

Mills, Ivor W.: *See*—
Blair, Edgar A., Melchiore, and Mills. 3,047,616.

Mills, Ivor W., to Sun Oil Co. Recovery of polyolefins from catalyst. 3,030,348, 4–17–62, Cl. 260—88.2.

Mills, Ivor W., to Sun Oil Co. Removing nitrogen compounds from aromatic hydrocarbons by acid treatment. 3,052,-742, 9–4–62, Cl. 260—674.

Mills, Ivor W., to Sun Oil Co. Jet engine fuel. 3,061,418, 10–30–62, Cl. 44—65.

Mills, Ivor W., H. C. Beck, and J. L. Jezl, to Sun Oil Co. Separation of esters of naphthalene. 3,042,708, 7–3–62, Cl. 260—469.

Mills, Jack F., to The Dow Chemical Co. Recovery of iodine from aqueous iodide solutions. 3,050,369, 8–21–62, Cl. 23—216.

Mills, Jack F., C. K. McAnallen, and R. S. Montgomery, to The Dow Chemical Co. Foam stabilizers. 3,053,763, 9–11–62, Cl. 252—6.5.

Mills, James, Ltd.: *See*—
Rigyy, Hugh J. M. 3,065,914.

Mills, James M., to Bowser, Inc. Water filter. 3,037,634, 6–5–62, Cl. 210—323.

Mills, John A. Gear shaving or gear finishing machines. 3,069,977, 12–25–62, Cl. 90—1.6.

Mills, John S., to Syntex Corp. 10-fluoro-19-nor steroids. 3,053,858, 9–11–62, Cl. 260—397.3.

Mills, John S., H. J. Ringold, C. Djerassi, to Syntex, Corp. Process for the conversion of α-acetyl steroids to β-acetyl steroids and intermediates therein. 3,062,845, 11–6–62, Cl. 260—397.4.

Mills, Joseph C., to The Champion Co. General cargo shipping container. 3,040,925, 6–26–62, Cl. 220—1.5.

Mills, Kenneth R.: *See*—
Robbins, Archie L., and Mills. 3,028,363.
Robbins, Archie L., and Mills. 3,050,494.

Mills, Lester. Fleshing machine. 3,049,906, 8–21–62, Cl. 69—46.

Mills, Lester A. Skinning apparatus. 3,024,491, 3–13–62, Cl. 17—21.

Mills, Malcolm E., to Elastic Stop Nut Corp. of America. Anchor nut with spherical surface to permit angular movement. 3,020,946, 2–13–62, Ci. 151—41.71.

Mills, Maurice A. Head rest for automobile seat. 3,018,133, 1–23–62, Cl. 297—397.

Mills, Maurice R.: *See*—
Cheesman, John J., and Mills. 3,046,871.

Mills, Maurice R., to Lever Bros. Co. Process for the production of condensation products of carboxylic acids in the presence of their metallic salts. 3,043,852, 7–10–62, Cl. 260—345.9.

Mills Products, Inc.: *See*—
Mills, Herbert E. 3,017,657.
Mills, Herbert E. 3,021,832.
Mills, Herbert E. 3,070,085.

Mills, Ralph W. Wheel balance weight and clip. 3,056,631, 10–2–62, Cl. 301—5.

Mills, Raymond P. Electrical water heaters. 3,023,299, 2–27–62, Cl. 219—38.

Mills, Robert H., to Monsanto Chemical Co. Preparation of mixed phenyl esters of anhydride-forming polycarboxylic acids. 3,067,239, 12–4–62, Cl. 260—475.

Mills, Robert L.: *See*—
Summers, Gerald C., and Mills. 3,016,515.

Mills, Robert L., and H. J. Bryan, to Harvest Queen Mill & Elevator Co. Governor for pipeline apparatus. 3,036,-530, 5–29–62, Cl. 104—155.

Mills, Victor, to The Procter & Gamble Co. Detergent composition. 3,030,312, 4–17–62, Cl. 252—161.

Mills, Walter B. Combination road and air vehicle. 3,065,-927, 11–27–62, Cl. 244—2.

Mills, Walter P., B. N. Parsons, and C. Y Reed to Imperial Chemical Industries Ltd. Process for dyeing protein fibers with a water-insoluble reactive dyestuff. 3,057,673, 10–9–62, Cl. 8—54.

Milne, Alexander J., and R. J. Parry, to Pilkington Brothers Ltd. Optical glass. 3,029,152, 4–10–62, Cl. 106—47.

Milne, Frank A., to Her Majesty's Postmaster General. Time assignment speech interpolation systems and terminal equipment therefor. 3,056,858, 10–2–62, Cl. 179—15.

Milne, James C. Method of making mausoleum structures. 3,035,324, 5–22–62, Cl. 25—155.

Milner, David C.: *See*—
Lancaster, John K., Milner, and Hirst. 3,027,449.

Milner, Dumas, Corp.: *See*—
Coulter, Thomas H. 3,045,394.

Milner, Samuel. Movable seat. 3,043,622, 7–10–62, Cl. 297—240.

Milnes, James A. Water-cooled mandrel. 3,049,947, 8–21–62, Cl. 78—102.

Milnes, James A., to United States Steel Corp. Device for measuring a linear dimension of moving articles. 3,061,-732, 10–30–62, Cl. 250—219.

Milprint, Inc.: *See*—
Billeb, Clyde K. 3,066,848.
Hulkrans, Paul B. 3,017,302.
Parks, George J. 3,017,067.
Parks, George J. 3,063,215.
Schoen, Walter A., and Herrick. 3,016,806.

Milross, John W.: *See*—
Warren, Christopher J. L., and Milross. 3,048,128.

Milsco Mfg. Co.: *See*—
Galbraith, Donald C. 3,026,145.

Milstead, Darrell, to Curtiss-Wright Corp. Mist coolant system. 3,027,625, 4–3–62, Cl. 29—106.

Milton, Carl E. Rotary internal combustion motor. 3,060,-911, 10–30–62, Cl. 125—11.

Milton, Charles B., and D. T. Kelley, to Union Carbide Corp. Method of flame machining J-grooves. 3,035,947, 5–22–62, Cl. 148—9.5.

Milton, Kirby M., and F. W. Spangler, to Eastman Kodak Co. Plasticized gelatin compositions. 3,033,680, 5–8–62, Cl. 96—94.

Milton, Leonard, and J. S. Lory, to The Filtron Co., Inc. Electrical control means. 3,043,937, 7–10–62, Cl. 200—142.

Milton Mfg. Co., Inc.: *See*—
Mazeika, Albert. 3,019,657.
Mazeika, Albert. 3,022,095.

Milton, Robert H.: *See*—
Milton, Thomas W. and R. H. 3,021,756.
Milton, Thomas W., and R. H. 3,039,133.

Milton, Robert M., to Union Carbide Corp. Drying of natural gas by adsorption. 3,024,867, 3–13–62, Cl. 183—114.2.

Milton, Robert M., to Union Carbide Corp. Purification of reformer hydrogen by adsorption. 3,024,868, 3–13–62, Cl. 183—114.2.

Milton, Robert M., to Union Carbide Corp. Crystalline zeolite R. 3,030,181, 4–17–62, Cl. 23—113.

Milton, Robert M., and R. A. Jones, to Union Carbide Corp. Desorption of oxygen-contaminated molecular sieves. 3,023,841, 3–6–62, Cl. 183—114.2.

Milton Roy Co.: *See*—
Schneider, George W., Jr. 3,019,091.

Milton, Thomas W. and R. H. Rear vision mirrors. 3,021,756, 2–20–62, Cl. 88—86.

Milton, Thomas W., and R. H. Motion transmitting mechanism. 3,039,133, 6–19–62, Cl. 16—65.

Milwaukee Chaplet & Mfg. Co., Inc.: *See*—
Welch, Elmer S., O'Meara, and Roberts. 3,038,488.

Milwaukee Electric Tool Corp.: *See*—
Klemmer, Jacob W. 3,032,876.

Milwhite Mud Sales Co.: *See*—
Browning, William C. 3,047,494.

Mimazaki, Sadamaru: *See*—
Tanabe, Kenichi, Suda, Miyazaki, and Osugi. 3,044,974.

Mims, Bruce L., to The Barden Corp. Bearings having balls with restrained spin axes. 3,020,106, 2–6–62, Cl. 308—174.

Mims, Bruce L., to The Barden Corp. Preloaded bearing and method of making same. 3,056,636, 10–2–62, Cl. 308—196.

Mims, Bruce L., and H. Konet, to The Barden Corp. Brush oscillating assembly. 3,060,397, 10–23–62, Cl. 339—5.

Mims, William B.: *See*—
Bowers, Klaus D., Kompfner, and Mims. 3,067,379.

Mimx Corp.: *See*—
Fite, George W., Jr. 3,031,932.
Fite, George W., Jr. 3,056,171.

Mina, Vincent A.: *See*—
Cimerman, Isaac, Saeger, and Mina. 3,037,151.
Minagawa, Toyosaku, and T. Hamaishi, to Pacific Laboratories, Inc. Process for enzyme production. 3,031,380, 4–24–62, Cl. 195—66.
Minami, Yoshitada, ½ to Tokyo Shibaura Denki Kabushiki Kaishi (known as Tokyo Shibaura Electric Co., Ltd.). Method for preparing rice. 3,065,078, 11–20–62, Cl. 99—80.
Minard, Burt V.: *See*—
Gallagher, William P., Minard, Stolle, and Gardes. 3,060,288.
Minard, William F.: *See*—
Phelan, Roy L., Minard, and Lockey. 3,028,956.
Minarik, Rudolf C., to Kimberly-Clark Corp. Papermaking machine. 3,044,392, 7–17–62, Cl. 100—162.
Minas, Giorgio. Electromagnetic devices for converting a movement of an electric value. 3,045,227, 7–17–62, Cl. 340—345.
Minchenberg, Alfred S. Apparatus for forming belt loops on garments. 3,051,102, 8–28–62, Cl. 112—2.
Minckler, Leon S., Jr.: *See*—
Cottle, Delmer L., Minckler, and Fefer. 3,037,968.
Cottle, Delmer L., Minckler, and Lemiszka. 3,042,662.
Lemiszka, Theodore, Cottle, and Minckler. 3,028,346.
Strohmayer, Herbert F., Minckler, Simko, and Stogryn. 3,123.
Minckler, Leon S., Jr., T. Lemiszka, and D. L. Cottle, to Esso Research and Engineering Co. Vulcanization of halogenated rubbery copolymer with inorganic metal compound and a halogenated hydrocarbon. 3,028,373, 4–3–62, Cl. 260—85.3.
Minckler, Leon S., Jr., M. Fefer, and D. L. Cottle, to Esso Research and Engineering Co. Thiourea halogenation of rubbery copolymers. 3,033,837, 5–8–62, Cl. 260—85.3.
Minckler, Leon S., Jr., and D. L. Cottle, to Esso Research and Engineering Co. Process for vulcanizing a blend of a halogenated isoolefin-diolefin copolymer and in isoolefin-vinylaromatic copolymer with ferric and zinc chlorides and product obtained. 3,051,680, 8–28–62, Cl. 260—41.5.
Minckler, Leon S., Jr., D. L. Cottle, and C. W. Muessig, to Esso Research and Engineering Co. Pyridine iodinated butyl rubber. 3,057,834, 10–9–62, Cl. 260—85.3.
Minden, Henry T., to Sarkes Tarzian, Electric Products Inc. Semiconductor device. 3,038,241, 6–12–62, Cl. 29—25.3.
Mindermann, Kurt H., to Gylling & Co., Aktiebolaget. Amplifier for transmission of speech in two directions. 3,045,-074, 7–17–62, Cl. 179—170.
Mindes, Barry M.: *See*—
Adams, Robert T., and Mindes. 3,069,630.
Adams, Robert T., and Mindes. 3,069,664.
Mindes, Barry M., to International Telephone and Telegraph Corp. Diversity combining system. 3,045,114, 7–17–62, Cl. 250—20.
Mindheim, Daniel: *See*—
Lindemann, Howard C., and Mindheim. 3,041,461.
Mindick, Morris, and R. Oda, to Nalco Chemical Co. Dialysis method and semi-permeable membrane thereof. 3,069,340, 12–18–62, Cl. 204—180.
Mindick, Morris, and H. I. Patzelt, to National Aluminate Corp. Production of ion selective permeable membrane. 3,069,728, 12–25–62, Cl. 18—57.
Mindrum, Kenneth H.: *See*—
Rogers, Cyril B., and Mindrum. 3,070,190.
Mindrum, Kenneth H., and D. W. McKee, to Clark Equipment Co. Loader mechanism. 3,039,633, 6–19–62, Cl. 214—390.
Mine Safety Appliances Co.: *See*—
Austin, Harry W. 3,018,483.
Austin, Harry W. 3,020,551.
Austin, Harry W. 3,055,011.
Beahm, Horace C., and Spartis. 3,049,461.
Bixby, Guy T. 3,026,024.
Bub, Robert A. 3,037,637.
Bub, Robert A. 3,042,213.
Bub, Robert A. 3,069,018.
Buban, Elmer E. 3,029,627.
Cox, Wilma W. and W. 3,046,559.
Hohos, Edward J., and Alston. 3,022,840.
Hornickel, Robert R., and Austin. 3,054,111.
Jacobson, Moses G. 3,039,053.
Jacobson, Moses G., and De Luca. 3,049,664.
Larson, Glen M. 3,025,525.
Luft, Ludwig. 3,016,106.
Lytle, John P., and Erickson. 3,035,574.
Miller, John C. 3,028,602.
Miller, John C. 3,037,236.
Stanford, Evelyn C. 3,068,073.
Strange, John P., Charlton, and Yant. 3,016,107.
Summers, James J., and Bub. 3,025,964.
Temple, Robert and E. E. 3,022,513.
Temple, Robert and E. E. 3,023,498.
Temple, Robert and E. E. 3,031,007.
Temple, Robert and E. E. 3,058,295.
Temple, Robert and E. E. 3,061,834.
Temple, Robert, E. E., and Giebel. 3,062,260.
Temple, Robert, Giebel, and Temple. 3,020,871.
Voss, Donald J. 3,063,055.
Werner, Robert C., and Shearer. 3,031,518.
Minegishi, Takashi, to Nippon Piston Ring Kabushiki Kaisha. Spring ring. 3,051,499, 8–28–62, Cl. 277—140.
Minelba s.r.l., Societa: *See*—
Viezzoli, Giorgio. 3,045,498.
Minella, Angelo, ⅓ to C. C. Pajdowski and ⅔ to S. M. Clifford. Adapter between toilet and discharge pipe. 3,015,501, 1–2–62, Cl. 285—55.
Miner, Donald B.: *See*—
Yowell, Joseph W., and Miner. 3,019,820.
Yowell, Joseph W., and Miner. 3,021,596.
Miner, George L., to Grinnell Corp. Control valve. 3,027,-906, 4–3–62, Cl. 137—107.
Miner, Richard Y.: *See*—
Abt, Clifford F., and Miner. 3,019,969.
Cunningham, Frederick W., Miner, and Evans. 3,048,-769.
Miner, Richard Y., C. T. Davenport, and F. J. Kreitner, to American Bosch Arma Corp. Gyro compass. 3,049,808, 8–21–62, Cl. 33—226.
Miner, Robert V., to Western Electric Co., Inc. Centripetal extruder. 3,032,814, 5–8–62, Cl. 18—12.
Minera, Salvador A. Fruit stemming machine. 3,036,613, 5–29–62, Cl. 146—55.
Minera, Salvador A. Fishing kite. 3,044,208, 7–17–62, Cl. 43—43.13.
Minerallac Electric Co.: *See*—
Loudon, James. 3,018,080.
Minerals & Chemicals Philipp Corp.: *See*—
Albert, Charles G. 3,057,757.
Albert, Charles G. 3,066,035.
Allegrini, Aldo P. 3,041,238.
Allegrini, Aldo P. 3,049,449.
Allegrini, Aldo P., and Cecil. 3,050,863.
Claxton, Arlie W. 3,063,854.
Duke, James B. 3,024,206.
Elias, Robert T. 3,055,791.
Ferrigno, Thomas H. 3,015,634.
Ferrigno, Thomas H. 3,024,209.
Ferrigno, Thomas H. 3,029,209.
Ferrigno, Thomas H. 3,032,431.
Gary, Wright W. 3,046,996.
Haden, Walter L., Jr. 3,050,421.
Haden, Walter L., Jr., and Dzierzanowski. 3,065,054.
Marples, James O., and Sawyer. 3,062,637.
Pedler, Albert H. 3,024,205.
Robinson, Alfred J., Allegrini, and Mueller. 3,016,355.
Robinson, Alfred J., and Haden. 3,039,973.
Robinson, Alfred J., Specht, and Albert. 3,025,133.
Sawyer, Edgar W., Jr. 3,024,164.
Sawyer, Edgar W., Jr. 3,048,494.
Sawyer, Edgar W., Jr. 3,049,498.
Sawyer, Edgar W., Jr., and Gary. 3,029,783.
Smith, Homer A. 3,041,159.
Stamberger, Paul. 3,068,185.
Weir, James V., and Robinson. 3,033,798.
Mineral Industries Corp. of America: *See*—
Cohn, Morris L., and Perdue. 3,039,703.
Minerals Refining Co.: *See*—
Cardon, Paul B. 3,029,134.
Mineta, Takao. Electric lamp. 3,059,135, 10–16–62, Cl. 313—113.
Minett, Herbert H. B., and K. W. Course, to D. Napier & Son Ltd. Fuel injection pumps for internal combustion engines. 3,046,896, 7–31–62, Cl. 103—41.
Mingasson, Georges R. H., and M. J. C. Alicot, to Compagnie Francaise des Matieres Colorantes. Rubber containing a condensation product of a phenolic derivative with dicyclopentadiene as an antioxidant. 3,036,138, 5–22–62, Cl. 260—810.
Mingle, George: *See*—
Wright, Ehrick H. 3,060,406.
Miniature Precision Bearings, Inc.: *See*—
Barnard, Theodore P. 3,027,749.
Gordon, Keith M., Clark, and Barnard. 3,023,604.
Minier, William: *See*—
Weil, Alfred H., Sr., and Minier. 3,042,440.
Miniere et Metallurgique de Penarroya, Societe: *See*—
Rodoz, Sylvio. 3,067,988.
Minik, Frank M. Universal joint. 3,030,784, 4–24–62, Cl. 64—18.
Mining Engineering Co. Ltd., The: *See*—
Duncan, Angus W. 3,047,131.
Minisci, Francesco: *See*—
Chiusoli, Glam P., and Minisci. 3,024,276.
Chiusoli, Glam P., Minisci, and Quilico. 3,062,851.
Minisci, Francesco, to Montecatini Societa General per l'Industria Mineraria e Chimica. Process for obtaining epsilon-substituted derivatives of caproic acid and its homologues, and the products thereof. 3,026,334, 3–20–62, Cl. 260—349.
Minister of Aviation, in Her Majesty's Government of the United Kingdom of Great Britain and Northern Ireland: *See*—
Morris, William H., and Hopkins. 3,043,885.
Roberts, Elwyn, and Martin. 3,043,878.
Minister of National Defense, Her Majesty the Queen in right of Canada, as represented by the: *See*—
Clarke, Walter W. H. 3,042,916.
Minister of Supply in Her Majesty's Government of the United Kingdom of Great Britain and Northern Ireland: *See*—
Broughton, Leslie W., and Walder. 3,040,521.
Dawson, Philip J., and Lawrie. 3,023,704.
Gent, Hubert. 3,027,557.
Martin, John W., and Walters. 3,069,845.
Taylor, Tristram A., and Stephenson. 3,059,325.

Minister of Works, in Her Majesty's Government of the United Kingdom of Great Britain and Northern Ireland: *See*—
Ellinger, John H. 3,040,446.
Ministry for Petroleum Industry and Chemistry, The: *See*—
Baltac, Alexandru. 3,017,940.
Minitone Electronics, Inc.: *See*—
Landes, Alfred. 3,052,981.
Mink, Leon D., and J. H. Silliker. Treatment of egg material. 3,028,245, 4–3–62, Cl. 99—210.
Minke, Charles M., to Allegany Instrument Co., Inc. Force measuring instrument. 3,037,380, 6–5–62, Cl. 73—141.
Minke, Charles M., to Allegany Instrument Co., Inc. Materials testing. 3,057,190, 10–9–62, Cl. 73—89.
Minkema, William H.: *See*—
Paschali, Eugene F., and Minkema. 3,024,212.
Minkow, Julius, to Red Rope Stationery Industries, Inc. Machine adaptable for use in the manufacture of one-piece expandable envelopes and other box forms. 3,041,944, 7–3–62, Cl. 93—49.
Minneapolis-Honeywell Regulator Co.: *See*—
Acker, William F., and Hanson. 3,060,895.
Ages, Frederik J. 3,064,900.
Alamprese, Leo. 3,049,254.
Ambrose, William J. 3,039,719.
Ammon, Roscoe A. 3,021,505.
Andrews, Floyd A. 3,029,641.
Aske, Leonard E. 3,045,133.
Aske, Leonard E. 3,047,703.
Aske, Vernon H., and Glick. 3,041,883.
Auerbach, Isaac L. 3,041,467.
Baker, Ridgway. 3,057,992.
Baldwin, John H., and Berry. 3,053,487.
Bancroft, John W., and Huppert. 3,063,243.
Barbagallo, Charles J., Fabiszewski, and Oliarl. 3,037,193.
Barnard, William B. 3,058,663.
Beard, Richard B. 3,059,111.
Beard, Richard B., and Hudson. 3,019,647.
Becker, Orlien N. 3,047,777.
Beckman, John B. 3,033,155.
Bergeson, Raymond L. 3,060,742.
Berggren, Lloyd E. 3,037,388.
Berggren, Lloyd E. 3,048,329.
Bevilacqua, Enrico S. 3,026,505.
Bishofberger, Carl J. 3,027,523.
Blackett, James C. 3,050,254.
Bolstad, Luther L. 3,021,793.
Bonnell, Charles R. 3,023,626.
Booth, Russell N. 3,054,485.
Booth, Russell N., and Russell. 3,050,600.
Bouchard, John R., and Norton. 3,035,288.
Brands, John T. 3,033,496.
Brandt, Carl R. 3,054,489.
Bretoi, Remus N. 3,057,584.
Brown, Richard W. 3,026,448.
Brown, Richard W. 3,060,416.
Burgwin, Stephen L., and Green. 3,027,471.
Buttenhoff, Edward W. 3,060,602.
Campbell, Alan M., and Entin. 3,030,595.
Carey, William M., Jr. 3,022,428.
Carey, William M., Jr. 3,045,127.
Carlson, Elmer A. 3,015,447.
Carlson, Elmer A. 3,046,380.
Carlson, William L., Jr. 3,029,323.
Carlson, William L., Jr. 3,034,002.
Carlson, William L., Jr. 3,039,490.
Carlson, William L., Jr. 3,047,779.
Carlson, William L., Jr., and Cole. 3,046,893.
Carlson, William L., Jr., and Exner. 3,045,599.
Ciscel, Benjamin H. 3,054,580.
Cole, Richard H. 3,032,993.
Cole, Richard H. 3,066,607.
Cox, John A., Jr. 3,049,646.
Currie, Courtland B., and Morgan. 3,020,921.
Davio, Donald A. 3,045,638.
Dean, Gordon W. 3,033,280.
Demay, Peter F. 3,065,736.
Dever, John A., Newbold, Parnell, and Latham. 3,064,191.
Deziel, Fred T. 3,023,803.
Dietiker, Paul. 3,046,406.
Dietiker, Paul, and Morgan. 3,027,498.
Domenicali, Charles A. 3,046,164.
Donahue, Lawrence E. 3,058,664.
Dornbusch, Aaron P., and Mekota. 3,019,417.
Duethman, Ray L., and Larson. 3,037,724.
Duke, John A. 3,051,038.
Duke, John A. 3,056,297.
Duke, John A. 3,064,128.
Dungan, Robert H., and Johnson. 3,065,533.
Drury, Samuel F., Jr. 3,057,254.
Eachus, Joseph J. 3,018,954.
Eachus, Joseph J. 3,019,422.
Eachus, Joseph J. 3,046,418.
Eachus, Joseph J. 3,056,042.
Eachus, Joseph J. 3,067,336.
Entin, Leonard P. 3,017,775.
Fabiszewski, Edward S. 3,036,771.
Fabiszewski, Edward S., and Oliarl. 3,040,987.
Fenity, Robert D. 3,021,233.
Franzel, Richard M., and Smith. 3,037,385.
Freeborn, John C. 3,046,951.
Minneapolis-Honeywell Regulator Co.: *See*—Continued
Fuller, William E. 3,050,256.
Gille, Willis H. 3,031,158.
Glick, Arthur D. 3,064,248.
Greaves, Harry E. 3,056,417.
Gustafson, Gordon W. 3,018,345.
Hall, Edward O., and Bates. 3,058,349.
Hamelink, William B. 3,020,413.
Hayner, Paul F. 3,046,945.
Heiland, Carl A. 3,064,260.
Helfinstine, Robert F. 3,018,070.
Hermanson, Harry M. 3,019,651.
Higgins, Stephen P., Jr. 3,034,051.
Hochman, Robert F. 3,032,869.
Ironside, Donald S. 3,050,644.
Jacoby, George V. 3,020,476.
Jenkins, George F., and Smulka. 3,028,726.
Jensen, James L. 3,016,494.
Jensen, James L. 3,022,427.
Jensen, James L. 3,051,873.
Jensen, James L. 3,060,363.
Joesting, Frederick D. 3,030,024.
Jokela, Veikko J. 3,066,496.
Kahn, William M. 3,037,697.
Kampf, Richard S. 3,066,299.
Karleen, Edward H. 3,056,866.
Kaufman, Alfred M. 3,023,958.
Kautz, Murrell F., and Olson. 3,027,865.
Keller, Roger P., and Renier. 3,017,592.
Keyt, Ferris G., and Peters. 3,027,878.
King, William R. 3,025,059.
King, William R. 3,045,816.
King, William R. 3,053,146.
Kling, John D. Re. 25,212.
Kluge, Robert D. 3,049,611.
Kompelien, Arlon D. 3,051,165.
Kompelien, Arlon D., and Severson. 3,040,737.
Kondi, Spiro E. 3,047,841.
Koontz, Lamont B. 3,031,645.
Krueger, Vernon. 3,029,403.
Kryder, Harold C. 3,030,466.
Kutzler, Robert J. 3,045,492.
Kutzler, Robert J. 3,046,681.
Kutzler, Robert J. 3,051,137.
Kutzler, Robert J. 3,064,371.
Ladd, Frederick F., Jr. 3,019,374.
Lang, Elliot R. 3,047,247.
Lang, Elliot R., and Yashin. 3,029,369.
Lankow, George F. 3,068,706.
Larsen, Roy L., and Brown. 3,034,017.
Larson, John C. 3,035,795.
Lee, Robert C. K., and Ljungwe. 3,030,054.
Le Massena, Robert A. 3,063,350.
Le Massena, Robert A., and Kampf. 3,035,912.
Leonard, Robert R. 3,051,851.
Leyenberger, John, and McGhee. 3,056,936.
Lindemann, Arthur W. 3,042,060.
Lindemann, Arthur W. 3,056,296.
Lode, Tenny D. 3,033,453.
Lourie, Norman M., and Perry. 3,016,522.
Loveland, Roger S., and Sidaris. 3,056,450.
Loveless, Vernon O., and Staats. 3,029,644.
Luck, James R., and Severson. 3,053,076.
Lukianov, Roman E. 3,061,154.
Markusen, David L., and McLane. 3,040,568.
Markusen, David L., McLane, and Pomeroy. 3,045,955.
Mauer, Kenneth H., and Mott. 3,037,702.
Maupin, Joseph T. 3,017,520.
Maupin, Joseph T. 3,051,877.
Maze, Robert O. 3,060,736.
McLane, Robert C. 3,055,214.
McLane, Robert C., and Pomeroy. 3,015,459.
McLemore, Robert B. 3,061,824.
Minnick, Robert C., and Mekota. 3,039,083.
Mobarry, John W. 3,056,120.
Mobarry, John W. 3,066,204.
Morgan, Hugh M. 3,043,324.
Morrison, Stanley R. 3,021,433.
Mueller, Richard S. 3,027,970.
Muse, Grant H., Jr. 3,060,796.
Myck, Edward A., and Osen. 3,022,641.
Myck, Edward A., Jr. 3,019,001.
Newbold, William F. 3,016,197.
Newbold, William F. 3,069,655.
Nickells, Stanley W. 3,045,590.
Nodolf, Keith M. 3,028,715.
Ochs, Robert E., Jr. 3,015,951.
Olmon, Wilfrid E., and Zelinka. 3,046,651.
Osen, Ralph T. 3,050,610.
Pearson, Robert P. 3,025,704.
Pearson, Robert P. 3,042,908.
Perry, Kenneth E. 3,025,503.
Pinckaers, Balthasar H. 3,024,390.
Pinckaers, Balthasar H. 3,047,722.
Pinckaers, Balthasar H. 3,065,388.
Popowsky, William J. 3,062,967.
Rasmussen, Robert F. 3,029,792.
Rasmussen, Robert F. 3,034,483.
Reach, Roy W., and Kahan. 3,063,036.
Reach, Roy W., Jr. 3,049,629.
Reach, Roy W., Jr. 3,069,566.
Reach, Roy W., Jr., Johnson, and Lourie. 3,064,140.

Minneapolis-Honeywell Regulator Co.: *See*—Continued
Reilly, Richard J. 3,030,979.
Renier, James J. 3,064,222.
Rexer, Edward F., Jr. 3,065,291.
Rotier, Donald J. 3,019,382.
Rotier, Donald J. 3,051,416.
Rotier, Donald J. 3,063,662.
Rudolf, John J., Jr., and Fillmore. 3,039,035.
Ryan, John T. 3,061,774.
Sapino, Theodore. 3,049,630.
Scher, Glenn R. 3,024,148.
Schrimpf, Henry W. 3,029,414.
Schrimpf, Henry W. 3,047,868.
Schugt, Joseph F. 3,030,533.
Schugt, Joseph F. 3,064,171.
Scott, Troy A. 3,039,871.
Scott, Troy A. 3,047,392.
Sear, Arthur W., Schulz, and White. 3,022,395.
Seido, Masami. 3,058,089.
Severson, Asbjorn M., and Kompelien. 3,023,294.
Shansky, David, and Alla. 3,060,353.
Shepherd, Robert N. 3,062,486.
Sidaris, Nickolas J. 3,045,993.
Sikorra, Daniel J. 3,041,479.
Snygg, Arnold J. 3,034,038.
Taylor, William S. 3,040,579.
Tessem, Bernt M. 3,046,786.
Thorsheim, Joseph O. 3,022,987.
Van Lunen, Richard D., and Noel. 3,030,156.
Vanslette, Robert A. 3,045,197.
Vollmer, James, and Duke. 3,050,982.
Wacker, Robert J. 3,018,712.
Wagner, Thomas G. 3,064,205.
Warnock, Lyle F., Jr. 3,018,141.
Warnock, Lyle F., Jr. 3,018,142.
Wentworth, Milo R. 3,016,918.
Werme, John V., Newbold, Parnell, and Volpe. 3,017,-097.
Wilkerson, John S. 3,046,795.
Wilkins, Robert E. 3,049,276.
Witt, Walter. 3,017,802.
Witt, Walter. 3,051,003.
Woo, Way D. 3,059,227.
Zimbel, Norman S. 3,051,349.
Minneapolis-Moline Co.: *See*—
Beach, Robert E., and Lloyd. 3,026,664.
Morrell, John P. 3,018,909.
Minneci, Salvatore, to General Electric Co. Electrical apparatus. 3,030,551, 4–17–62, Cl. 317—14.
Minnema, Johannes: *See*—
Klaren, Cornelis, and Minnema. Re. 25,248.
Minner, Willy, and H. Rinderle, to Telefunken G.m.b.H. High frequency transistor oscillator. 3,042,870, 7–3–62, Cl. 325—451.
Minnesota Mining & Mfg. Co.: *See*—
Alstad, Orval E., and Van den Bergh. 3,030,223.
Anderson, Harvey L., and Wingfield. 3,055,855.
Barry, Donald J. 3,027,601.
Bauer, Benjamin B. 3,066,880.
Bauer, Benjamin B., and Sherman. 3,019,303.
Bilanin, Frank. 3,057,115.
Bollmeier, Emil W. 3,015,509.
Bolstad, Archibald N., Sherman, and Smith. 3,068,187.
Bond, Herbert M., and Tomita. 3,057,469.
Bouchard, Norman J. 3,039,249.
Breen, George B., and Cahill. 3,046,698.
Brown, Erwin W., and Budnick. 3,056,428.
Brundage, Clinton F. 3,059,691.
Casement, James S., and Hinkley. 3,021,234.
Casey, James H. 3,025,014.
Casey, James H. 3,048,953.
Casey, James H. 3,061,161.
Danielson, Richard D., and Sargent. 3,028,321.
Davis, Horace R., Errede, and Landrum. 3,053,909.
Davis, Horace R., Errede, and Landrum. 3,055,931.
Dreyfuss, Paul D., Gaspar, and Linden. 3,053,655.
Eisenman, Herbert. 3,057,018.
Errede, Louis A., Landrum, and Davis. 3,032,541.
Fennessy, John J. 3,050,598.
Fredrick, Russell E. 3,020,326.
Fredrick, Russell E., and Fritts. 3,051,767.
Fritts, Robert W. 3,017,444.
Fritts, Robert W. 3,017,445.
Fritts, Robert W. 3,023,257.
Fritts, Robert W. 3,038,049.
Fritts, Robert W. 3,057,340.
Fritts, Robert W. 3,057,939.
Fritts, Robert W. 3,057,940.
Fritts, Robert W., and Karrer. 3,022,361.
Fritts, Robert W., and Karrer. 3,038,956.
Gabor, Dennis. 3,064,087.
Gabor, Dennis, and Bauer. 3,052,567.
Goldmark, Peter C. 3,032,612.
Goldmark, Peter C. 3,054,860.
Grant, Edwin A., Jr. 3,028,254.
Hajny, Charles E. 3,038,108.
Herbst, Ralph L., and Landrum. 3,024,224.
Honn, Francis J., and Hoyt. 3,053,818.
Hunder, Ray A., and Buchholtz. 3,029,457.
John, Paul C., and Pettit. 3,022,870.
Johnson, George N., and Vice. 3,016,429.
Johnson, Wayne R. 3,016,415.
Minnesota Mining & Mfg. Co.: *See*—Continued
Johnson, Wayne R. 3,016,416.
Johnson, Wayne R. 3,017,457.
Johnson, Wayne R. 3,046,463.
Johnson, Wayne R. 3,049,589.
Johnson, Wayne R. 3,049,595.
Johnson, Wayne R. 3,051,797.
Johnson, Wayne R. 3,053,941.
Johnson, Wayne R. 3,054,108.
Johnson, Wayne R. 3,059,049.
Jupa, Julius A. 3,023,189.
Kalleberg, Melvin O., and Turner. 3,062,683.
Kaspaul, Alfred F. 3,051,636.
Kaufman, Herman S., and West. 3,019,115.
Klein, William A., and Wirsig. 3,043,673.
Krueger, Alfred P. 3,044,535.
Krueger, Alfred P. 3,051,353.
Krueger, Alfred P. 3,066,881.
Kotz, Arthur R., Appeldorn, Grieshaber, Peterson, and Giorgini. 3,056,904.
Kurka, Kurt A., and Bond. 3,027,279.
La Bore, Leonard J., and Impre. 3,030,251.
Lambert, Richard J. 3,015,587.
Landrum, Billy F., and Sandberg. 3,043,815.
Libby, William H. 3,042,658.
Lille, Lucille M. 3,026,639.
Lo, Elizabeth S. 3,023,187.
Mantell, Russell M., and Hoyt. 3,043,823.
McKenzie, Eugene L. 3,025,764.
McKenzie, Eugene L. 3,065,559.
McKenzie, Eugene L., and Johnson. 3,034,406.
Miller, Cardell E. 3,058,088.
Mix, Robert C. 3,026,015.
Nelson, Harold H., and Kotz. 3,038,994.
Ney, William O., Jr. 3,017,393.
Ney, William O., Jr. 3,026,301.
Ney, William O., Jr., and Zollinger. 3,057,874.
Owen, Richard. 3,028,255.
Palmquist, Philip V., McKenzie, and Harrington. 3,043,-196.
Park, Joseph D., and Cohen. 3,059,030.
Peffer, Roland J. 3,025,177.
Prager, Julianne H., and McCurdy. 3,031,436.
Radimer, Kenneth J. 3,032,488.
Raymond, Albert E. 3,030,743.
Robb, Lester E. 3,019,206.
Robb, Lester E. 3,029,227.
Rosamilia, Peter L. 3,028,358.
Roth, Paul I., and Schultz. 3,052,654.
Rothweiler, George A., Harrison, and Casement. 3,056,-704.
Sandberg, Carl L., Roth, and Mullins. 3,046,226.
Schurb, Joseph N. 3,030,247.
Shely, Benjamin L. 3,069,365.
Sherman, Patsy O., and Smith. 3,062,765.
Smith, Edwin K., Jr., Alexander, and Marks. 3,022,716.
Smith, George H. 3,060 048.
Smith, Raymond J. 3,037,335.
Stoothoff, Stanley T. 3,026,994.
Stoothoff, Stanley T. and W. W. 3,034,388.
Swenson, Jack S. 3,017,959.
Thiets, Clyde W. 3,067,923.
Tiers, George V. D. 3,050,555.
Tiers, George V. D. 3,050,556.
Tomita, Jun, and Bond. 3,059,764.
Urbach, Otto R. 3,053,177.
Updegraff, David M. 3,062,708.
Wade, Robert H. 3,054,785.
Wall, Thomas H. 3,025,957.
Wear, Robert L., and Bowman. 3,052,650.
Westberg, Walter M., and Tamer. 3,064,329.
Whitnah, Ronald L. 3,056,563.
Wieman, Robert L. 3,035,331.
Wilson, Paul H. 3,070,195.
Wingert, Louis E. 3,031,329.
Wright, Charles D. 3,057,829.
Minnesota and Ontario Paper Co.: *See*—
Meek, Wayne L., and Hyvarinen. 3,020,191.
Paulson, Morris, and Rasmussen. 3,015,957.
Wall, Thomas H. 3,018,881.
Minnesota Rubber Co.: *See*—
Carlson, George E. 3,053,190.
Stocking, Hobart L. 3,064,294.
Minnich, John B.: *See*—
Castle, William S., and Minnich. 3,056,581.
Llantonio, Vito, and Minnich. 3,021,859.
Minnich, John W., to E. I. du Pont de Nemours and Co. Production of phthalocyanine pigments. 3,051,720, 8–28–62, Cl. 260—314.5.
Minnich, John W., and R. L. Sweet, to E. I. du Pont de Nemours and Co. Pigment production. 3,017,414, 1–16–62, Cl. 260—279.
Minnick, Howard P. Welding-rod holder. 3,059,100, 10–16–62, Cl. 219—144.
Minnick, Gerald D., and D. G. Molly, to Conforming Matrix Corp. Apparatus for spray coating small articles with improved masking means. 3,040,701, 6–26–62, Cl. 118—7.
Minnick, Robert C., and J. E. Mekota, Jr., to Minneapolis-Honeywell Regulator Co. Multi-bit non-destructive memory readout apparatus. 3,039,083, 6–12–62, Cl. 340—174.
Minnis, Harold F., to Joy Mfg. Co. Chain tensioning device. 3,060,760, 10–30–62, Cl. 74—242.11.

Mino, Guido: *See*—
Kaizerman, Samuel, and Mino. 3,030,819.
Salsbury, Jason M., Kaizerman, and Mino. 3,046,078.
Minobe, Mickey M., to Ideal Industries, Inc. Power operated wrench for screw-on-type connectors. 3,016,774, 1–16–62, Cl. 81—54.
Minogue, James G.: *See*—
Misturini, Mario. 3,025,627.
Minor, Burt S., to Bettis Rubber Co. Split collar. 3,054,646, 9–18–62, Cl. 308—4.
Minor, Burt S., to Bettis Rubber Co. Pipe wiper. 3,055,036, 9–25–62, Cl. 15—210.
Minor, Burt S., to Bettis Rubber Co. Pipe wiper and method of making the same. 3,061,862, 11–6–62, Cl. 15—210.
Minor, Robert N.: *See*—
Stager, Francis W., and R. N. and T. A. Minor. 3,046,-060.
Minor, Robert N. and T. A., and F. W. Stager; said Stager assor. to said R. N. and said T. A. Minor. Deformable hollow rivet and pin. 3,030,850. 4–24–62, Cl. 85—40.
Minor, Robert N. and T. A., and F. W. Stager. Quick change brake lining. 3,066,766, 12–4–62, Cl. 188—78.
Minor, Thomas A.: *See*—
Minor, Robert N. and T. A., and Stager. 3,030,850.
Minor, Robert N. and T. A., and Stager. 3,066,766.
Stager, Francis W., and R. N. and T. A. Minor. 3,046,-060.
Minos, Jean-Marie, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Adjustable discharge nozzle and jet engine provided with such a nozzle. 3,054,-256, 9–18–62, Cl. 60—35.6.
Minsinger, Manfred, and H. Friedrich, to Badische Anilin- und Soda-Fabrik Aktiengesellschaft. Vinyl ester of 1,4,5, 6,7,7-hexachlorbicyclo - 2.2,1 - heptene-(5)-2-carboxylic acid. 3,060,220, 10–23–62, Cl. 260—468.
Minsk, Louis M., to Eastman Kodak Co. Sensitization of photographic silver halide emulsions with polyester compounds containing a plurality of sulfur atoms. 3,046,132, 7–24–62, Cl. 96—108.
Minsk, Louis M., to Eastman Kodak Co. Sensitization of photographic silver halide emulsions with polyester compounds containing thioether-sulfur atoms in the side chain. 3,046,133, 7–24–62, Cl. 96—108.
Minsk, Louis M., and H. L. Cohen, to Eastman Kodak Co. Basic mordants derived from the reaction between maleic anhydride interpolymers and disubstituted diamines. 3,048,487, 8–7–62, Cl. 96—84.
Minster Machine Co., The: *See*—
Ashbaugh, James A. 3,026,387.
Warnock, Howard B. 3,039,440.
Minter, Clarke C. Thermal conductivity leak detector. 3,020,-746, 2–13–62, Cl. 73—27.
Minter, Clarke C. Ratio-measuring circuit. 3,021,495, 2–13–62, Cl. 338—176.
Minter, Clarke C. Leak detector. 3,029,628, 4–17–62, Cl. 73—27.
Minter, Herbert F.: *See*—
Rogers, Dow A., Jr., Schake, and Minter. 3,036,023.
Minter, James W. Tie markers. 3,025,528, 3–20–62, Cl. 2—144.
Minter, Jerry B., 2nd. Electromagnetic engraving apparatus. 3,020,361, 2–6–62, Cl. 179—100.41.
Minter, Jerry B., II. Stereophonic sound transmission and reproduction. 3,067,292, 12–4–62, Cl. 179—15.
Minto, Wallace L., to IBC Research Laboratories, Inc. Methods and devices for filtering tobacco smoke. 3,028,864, 4–10–62, Cl. 131—10.
Minton, Clarence W., to Morpul, Inc. Knitting machine needle. 3,034,325, 5–15–62, Cl. 66—123.
Minton, Clarence W., to Morpul, Inc. Apparatus for knitting undistorted looser stitches in selected portions of knitted articles. 3,067,600, 12–11–62, Cl. 6—125.
Minton, Stanley J.: *See*—
French, Edward P., and Minton. 3,046,733.
Minton, Warren B. Magnetic proximity switches. 3,019,321, 1–30–62, Cl. 200—152.
Minton, Warren B., G. W. Bryan, and H. J. Van Gorden, to Time Stop, Inc. Automatic cancelling or re-setting parking meter unit. 3,018,615, 1–30–62, Cl. 58—142.
Minty, John E., and Manning, Maxwell & Moore, Inc. Hydraulic crane. 3,018,902, 1–30–62, Cl. 212—20.
Minty, John E., and H. C. Stevens, Jr., to Manning, Maxwell & Moore, Inc. Crane control operating mechanism. 3,021,962, 2–20–62, Cl. 212—18.
Mintz, Albert E., 50% each, to R. O. Richardson, and Dock & Dock. Detachable door chain. 3,039,289, 6–19–62, Cl. 70—93.
Mintz, David A. Apparatus for applying beads of plastic material onto sheet material. 3,059,610, 10–23–62, Cl. 118—7.
Mintz, Gerald E., to Mack Trucks, Inc. Tandem rear axle air spring suspension for vehicles. 3,022,088, 2–20–62, Cl. 280—124.
Mintz, Jacob, to Seal Sac, Inc. Closet bag. 3,039,599, 6–19–62, Cl. 206—7.
Mintz, Leon J.: *See*—
Block, Charles, and Mintz. 3,033,728.
Mintz, Leon J., and R. Yii, to Burroughs Corp. Transistorized circuit breaker network. 3,051,852, 8–28–62, Cl. 307—88.5.
Minuti, Egidio: *See*—
Torino, Henry. 3,054,395.

621173—P——46

Minutillo, Gaetano. Garage drip pan. 3,044,575, 7–17–62, Cl. 184—106.
Minutoli, Anthony L., to Kestenman Bros. Mfg. Co. Clasp for articles of jewelry and the like. 3,036,353, 5–29–62, Cl. 24—230.
Miocque, Robert E. V. J. Foldable cases and improved elements for forming the same. 3,057,504, 10–9–62, Cl. 217—16.
Mipro Metal Products Co.: *See*—
Watson, Frank P. 3,018,719.
Mir, William G., and J. Brewster, Sr. Occupant propelled merry-go-round. 3,018,101, 1–23–62, Cl. 272—33.
Miraldi, Mario N.: *See*—
Woolston, Daniel D., Miraldi, Manning, and Aucremanne. 3,070,773.
Miramontes, Luis E., to G. D. Searle & Co. Hecogenin azine and alkylidenazinotigogenins. 3,033,857, 5–8–62, Cl. 260—239.55.
Miranda, Angel A.: *See*—
De Tienda y Ricon, Francisco, and Miranda. 3,066,039.
Miranda, Louis: *See*—
Rosenberg, David, and Mirando. 3,017,642.
Mira-Pak, Inc.: *See*—
Leasure, William C. 3,027,695.
Leasure, William C. 3,027,696.
Mirman, Edward: *See*—
Burnstein, Harry. 3,025,923.
Miron, Roland L.: *See*—
Clements, William R. 3,062,342.
Mirra, Michael J.: *See*—
Fronmuller, George D., and Mirra. 3,033,865.
Mirror Insulation Co., Inc.: *See*—
Gronemeyer, George E. 3,028,278.
Mirsky, David. Strabismic fusion measure and training apparatus. 3,025,754, 3–20–62, Cl. 88—20.
Mirth, Happy. Bath sponge. 3,067,450, 12–11–62, Cl. 15—532.
Mirvis, Stanley B.: *See*—
Kirshenbaum, Isidor, Mirviss, and Inchalik. 3,030,402.
Mirviss, Stanley B., to Esso Research and Engineering Co. Oxidation of alkyl boron compounds, 3,067,235, 12–4–62, Cl. 260—462.
Misawa, Yutaka: *See*—
Tanaka, Yanagisawa, Sawada, Misawa, and Nakayoshi. 3,063,911.
Misbin, Ted J., R. R. Tarbuck, and E. Solyst, to Burroughs Corp. Sheet stack advance mechanism. 3,032,339, 5–1–62, Cl. 271—62.
Mischanski, Myron S. Ball mill. 3,018,061, 1–23–62, Cl. 241—172.
Mischanski, Myron S. Valves. 3,026,899, 3–27–62, Cl. 137—375.
Mischanski, Myron S. Grinding mills. 3,027,103, 3–27–62, Cl. 241—132.
Mische, Friedrich, to Voigtlander A.G. Base range finder with adjustable abat wedge. 3,039,352, 6–19–62, Cl. 88—2.4.
Mischke, Arthur O., and M. H. Burckhardt, to Daimler-Benz Aktiengesellschaft. Fan driving system including variable slip hydrolimetic coupling. 3,058,296, 10–16–62, Cl. 60—12.
Misercocchi, Henry F., to Barnes Engineering Co. Method of making thermistor bolometers. 3,061,476, 10–30–62, Cl. 117—212.
Misercocchi, Henry F., to The American Machine & Foundry Co. Reversal tray for water treating devices and the like. 3,068,166, 12–11–62, Cl. 204—301.
Mishawaka Rubber Co., Inc.: *See*—
Doherty, Thomas H. 3,018,571.
Mishelevich, Benjamin, and S. H. Tsiang, to Westinghouse Air Brake Co. Car counting systems. 3,046,394, 7–24–62, Cl. 246—182.
Mishina, Yoshio: *See*—
Akioka, Yoshio, and Mishina. 3,033,075.
Mishkin, Abraham R., and W. C. Marsh, to Afico, S.A. Method of making a soluble tea product. 3,065,077, 11–20–62, Cl. 99—77.
Mishler, Raymond J. Tire spreader. 3,052,447, 9–4–62, Cl. 254—50.2.
Miskel, John J.: *See*—
Oddo, Frank G., and Miskel. 3,032,950.
Miskel, John J., J. E. Fitzgerald, Jr., and C. E. Ackley, to Chas. Pfizer & Co., Inc. Apparatus for branding uniformly-shaped articles. 3,026,792, 3–27–62, Cl. 101—11.
Miskel, John J., F. I. Strom, F. Michel, and K. T. Tancredi, to Chas. Pfizer & Co., Inc. Aspirating hypodermic syringe holder. 3,026,873, 3–27–62, Cl. 128—218.
Miskella, William J. Ventilator drier attachment for rotary printing presses. 3,052,037, 9–4–62, Cl. 34—72.
Misner, Leroy R.: *See*—
Egleston, Fred F., and Misner. 3,024,838.
Miss Georgia Dairies, Inc.: *See*—
Simpkins, Nathaniel J. 3,037,645.
Mission Industries: *See*—
Van Dusen, Laurence W. 3,061,155.
Mission Mfg. Co.: *See*—
Harmes, Lee D. 3,056,155.
Roberts, Emmett T., Jr., Liljestrand, and Young. 3,063,-467.
Smith, Ralph E. 3,036,943.
Smith, Ralph E. 3,049,385.
Mission West-Mfg. Co.: *See*—
O'Brien, Robert F. 3,038,169.
O'Brien, Robert F. 3,038,170.

Misslich, Albert J., and F. C. Austin. Retractable seat belt. 3,065,027, 11–20–62, Cl. 297—388.
Missouri Wood Heel Co.: *See*—
Gudermuth, Clyde S. 3,057,087.
Slosberg, Benjamin L. 3,045,366.
Mister Softee, Inc.: *See*—
Moser, Frank T. 3,019,615.
Mr. Stanley, Inc.: *See*—
Philipson, Stanley J. 3,021,618.
Misturini, Mario, to J. G. Minogue. Color printing process. 3,025,627, 3–20–62. Cl. 41—26.
Misugi, Takahiko, and T. Miyagawa, to Kobe Kogyo Kabushiki Kaisha. Periodic magnetic focussing system for travelling wave tubes. 3,027,484, 3–27–62, Cl. 315—3.5.
Misuraca, Louis J. Eyepiece focussing mount. 3,051,045, 8–28–62, Cl. 88—39.
Misuraca, Louis J. Electrical erasing machine. 3,070,379, 12–25–62, Cl. 279—35.
Mitch, Francis J., and L. Landau, to Texaco Inc. Treating underground formations. 3,051,236, 8–28–62, Cl. 166—30.
Mitchel-Tyler Co., The: *See*—
Reardon, Patrick H. 3,019,833.
Mitchell Camera Corp.: *See*—
Manderfeld, Emanuel C. 3,043,185.
Mitchell, Charles F. Bowling ball hole pad. 3,055,661, 9–25–62, Cl. 273—63.
Mitchell, Charles R., to Burtek, Inc. Display device. 3,025,-613, 3–20–62, Cl. 35—49.
Mitchell, Charles V., to Union Carbide Corp. Preparation of high purity coke and graphite. 3,035,989, 5–22–62, Cl. 202—33.
Mitchell, Charles V., to Union Carbide Corp. Carbonizing process. 3,057,687, 10–9–62, Cl. 23—209.1.
Mitchell, Clifford E., to Bell Telephone Laboratories, Inc. Subscriber calling apparatus. 3,035,211, 5–15–62, Cl. 317—101.
Mitchell, Curtis P., to Palmer Thermometers, Inc. Recording thermometers. 3,049,923, 8–21–62, Cl. 73—343.5.
Mitchell, Darrell L., to Ex-Cell-O Corp. Magnetic data storage device of the drum type. 3,061,822, 10–30–62, Cl. 340—174.1.
Mitchell, David R.: *See*—
Kessler, Harold D., and Mitchell. 3,038,988.
Mitchell, Donald H.: *See*—
Lewis, William S., and Mitchell. 3,052,831.
Lewis, William S., and Mitchell. 3,052,832.
Mitchell, Drury K.: *See*—
Morley, Philip W., Werner, and Mitchell. 3,038,614.
Mitchell, Drury K., to United States of America, Navy. Closure device. 3,017,053, 1–16–62, Cl. 220—24.5.
Mitchell, Earl N.: *See*—
Pohm, Arthur V., Mitchell, and Rossing. 3,015,807.
Mitchell, Earl N., to Sperry Rand Corp. Method of treating ni-fe thin metal film on body of magnetic material by subjecting to heat treatment in a magnetic field oriented transversely to the preferred axis of magnetization. 3,039,-891, 6–19–62, Cl. 117—107.
Mitchell, Earland R., and F. D. Friedrich, to Her Majesty the Queen in right of Canada as represented by the Minister of Mines and Technical Surveys. Smoke reducing method and apparatus for stokers. 3,044,422, 7–17–62, Cl. 110—72.
Mitchell, Edward B., and W. H. Flanagan, Jr., to United-Carr Fastener Corp. Electrical connector with polarizing key. 3,015,797, 1–2–62, Cl. 339—17.
Mitchell, Edward B., and W. H. Flanagan, Jr., to United-Carr Fastener Corp. Electrical assembly. 3,024,335, 3–6–62, Cl. 200—166.
Mitchell, Edward F.: *See*—
Rockwell, Adelbert W., Jr., and Mitchell. 3,022,527.
Mitchell, Elgin. Structural member flexible in a single direction. 3,070,248, 12–25–62, Cl. 214—731.
Mitchell, Ellen M., and J. Yannacakis, to United States Borax & Chemical Corp. Process for making alkali metal metaborates and compositions containing the same. 3,032,405, 5–1–62, Cl. 71—2.2.
Mitchell Engineering Ltd.: *See*—
Coles, Harold J., and Sneddon. 3,068,164.
Mitchell, Eric: *See*—
Hilliard, John K., and Mitchell. 3,026,374.
Mitchell, Ernest. Ventilating back and seat cushion. 3,063,-753, 11–13–62, Cl. 297—453.
Mitchell, F. W.: *See*—
Huron, James W., and Scarlata. 3,041,463.
Mitchell, Frederick G. Apparatus for lifting and transporting cars and like vehicles. 3,038,621, 6–12–62, Cl. 214—333.
Mitchell, Geoffrey, to Her Majesty's Postmaster General. Steerable directional random antenna array. 3,056,961, 10–2–62, Cl. 343—854.
Mitchell, George E. Irrigation ditch trash remover. 3,061,-103, 10–30–62, Cl. 210—156.
Mitchell, George F., to Everyday Poultry Supply Co. Conveyor. 3,053,227, 9–11–62, Cl. 119—52.
Mitchell, George M. Dovetail method of cabinet construction. 3,021,187, 2–13–62, Cl. 312—257.
Mitchell, George R.: *See*—
Hay, Peter M., Mitchell, and Salatiello. 3,041,208.
Mitchell, Henry D., Jr., and C. D. Williams, to Western Electric Co., Inc. Wire straightening machine. 3,027,921, 4–3–62, Cl. 140—147.
Mitchell, Henry D., Jr., and C. D. Williams, to Western Electric Co., Inc. Apparatus for applying caps to articles. 3,037,268, 6–5–62, Cl. 29—203.
Mitchell, Hugh A., L. D. Furon, and D. R. Modispacher, to Curtiss-Wright Corp. Ultra-sonic recording system. 3,036,-151, 5–22–62, Cl. 178—6.6.
Mitchell, Irving L., to Ebert Electronics Corp. Mercury relay. 3,027,437, 3–27–62, Cl. 200—112.
Mitchell, Ivor L. S.: *See*—
Dorey, Michael J., Mitchell, Rule, and Walker. 3,069,329.
Mitchell, Jack M.: *See*—
Beck, Robert M., Mitchell, Palevsky, and Ruhman. 3,029,023.
Mitchell, Janina J., to United States of America, Army. Process of making mixed oxide films. 3,066,048, 11–27–62, Cl. 117—227.1.
Mitchell, Jesse W. Outboard motor tilting device. 3,062,175, 11–6–62, Cl. 115—41.
Mitchell, John D.: *See*—
Harrington, Joseph J., Dunning, and Mitchell. 3,053,034.
Mitchell, John D., to Harrington Mfg. Co., Inc. Chain protector for peanut picking machine. Re. 25,149, 4–3–62, Cl. 130—30.
Mitchell, John D., to Harrington Mfg. Co., Inc. Hay flow controller. 3,060,844, 10–30–62, Cl. 100—187.
Mitchell, John E., Co.: *See*—
Anderson, Robert V. 3,061,277.
Lents, Charles M., and Lincoln. 3,064,853.
Skidmore, Rijah. 3,064,330.
Mitchell, John E., Co., Inc.: *See*—
Mitchell, Orville. 3,016,252.
Mitchell, John J., and A. J. Kinsella, Jr., to Texaco Inc. Study of catalyst flow in fluid catalytic cracking by means of radioactive tracers. 3,039,975, 6–19–62, Cl. 252—455.
Mitchell, John M., to The General Electric Co. Ltd. Steam turbines. 3,055,634, 9–25–62, Cl. 253—77.
Mitchell, Malcolm: *See*—
Graff, Olin D., and Mitchell. 3,060,047.
Mitchell Mfg. Co.: *See*—
Stone, Ralph D., and Cobb. 3,038,176.
Mitchell, Maurice E., to Lift-A-Lift. Mobile service equipment for overhead utility equipment. 3,031,027, 4–24–62, Cl. 182—63.
Mitchell, Melville J., to Massey-Ferguson Inc. Hitch structure for tractor mounted harvesters. 3,021,658, 2–20–62, Cl. 56—15.
Mitchell, Melville J., to Massey-Ferguson, Inc. Hitch structure for tractor mounted corn harvesters. 3,035,384, 5–22–62, Cl. 56—15.
Mitchell Metal Products, Inc.: *See*—
Davis, Louis M. 3,031,029.
Mitchell, Mildred. Hair curlers. 3,045,683, 7–24–62, Cl. 132—34.
Mitchell, Orville, to John E. Mitchell Co., Inc. Dog clutch. 3,016,752, 1–9–62, Cl. 287—52.
Mitchell, Paul D. Tire repair gun and cartridge. 3,052,141, 9–4–62, Cl. 81—15.7.
Mitchell, Reid L., to Rayonier Inc. Light and heat stable cellulose and process. 3,032,549, 5–1–62, Cl. 260—212.
Mitchell, Reid L., J. W. Berry, and W. H. Wadman, to Rayonier Inc. Viscose process. 3,018,158, 1–23–62, Cl. 18—54.
Mitchell, Reid L., A. R. Albohn, and S. G. Palmgren, to Rayonier Inc. Process and apparatus for producing hydroxyethylcellulose. 3,045,007, 7–17–62, Cl. 260—231.
Mitchell, Reid L., D. K. Smith, and R. C. Welton, to Rayonier Inc. Process for the manufacture of low-shrink rayon. 3,046,082, 7–24–62, Cl. 18—54.
Mitchell, Reid L., and D. K. Smith, to Rayonier Inc. Hydroxyethylcellulose pellets and process. 3,054,705, 9–18–62, Cl. 154—43.
Mitchell, Robert I. Circular saw guide and square attachment. 3,045,724, 7–24–62, Cl. 143—6.
Mitchell, Robert P. Skin diver's combined float and equipment carrier. 3,045,262, 7–24–62, Cl. 9—1.
Mitchell, Samuel L. Power hair brush. 3,019,463, 2–6–62, Cl. 15—23.
Mitchell, Stanley A.: *See*—
Hurt, Norman A., and Mitchell. 3,054,753.
Mitchell, Thompson, J. S. Harris, and D. Zekaria, to Radio Corp. of America. Communication system. 3,017,461, 1–16–62, Cl. 178—26.
Mitchell, Ulyss S. Magnetic tape cartridge. 3,025,010, 3–13–62, Cl. 242—55.13.
Mitchell, Wallace F.: *See*—
Fellberg, Hans W. Re. 25,211.
Mitchell, Wallace F., to The Thor Power Tool Co. Portable hammer. 3,022,838, 2–27–62, Cl. 175—147.
Mitchell, Wallace F., to E-Z Packaging Corp. Bag forming machine. 3,023,558, 3–6–62, Cl. 53—241.
Mitchell, Wallace F., to Dacor Corp. Underwater breathing device. 3,028,859, 4–10–62, Cl. 128—142.
Mitchell, Wallace F., to E-Z Packaging Corp. Packaging machine and method of forming packages. 3,045,403, 7–24–62, Cl. 53—74.
Mitchell, Wallace F., to Thor Power Tool Co. Troweling machine. 3,062,107, 11–6–62, Cl. 94—45.
Mitchell, Walter E., to General Motors Corp. Recirculating paint spray system. 3,023,968, 3–6–62. Cl. 239—125.
Mitchell, Wiley D. Portable tank construction. 3,059,802, 10–23–62, Cl. 220—1.
Mitchell, William. Ventriloquial doll. 3,032,922, 5–8–62, Cl. 46—154.

Mitchell, William A.: *See*—
Finucane, Thomas P., Mitchell, and Raymond. Re. 25,231.
Mitchell, William E., to Dunlop Rubber Co. Ltd. Building apparatus for pneumatic tires. 3,063,491, 11–13–62, Cl. 156—410.
Mitchell, William E. A.: *See*—
Challis, Anthony A. L., and Mitchell. 3,036,137.
Mitchell, William E., to Westinghouse Electric Corp. Current carrying spring member. 3,018,353, 1–23–62, Cl. 200—166.
Mitchell, William T.: *See*—
McLaren, Norman H., and Mitchell. 3,026,083.
Mitchin, Michael P.: *See*—
Wansky, Morris H., Hudak, and Mitchin. 3,032,647.
Mite Corp.: *See*—
Baehr, Carl G. 3,030,899.
Blinken, Robert J., and Howard. 3,069,496.
Burgess, Robert W. 3,024,751.
Caldwell, Samuel P. 3,016,850.
Caldwell, Samuel P., and Connors. 3,051,106.
Gorton, Helen. 3,020,862.
Howard, Bernard. 3,022,376.
Howard, Bernard. 3,042,174.
Howard, Bernard. 3,063,559.
Howard, Bernard. 3,063,540.
Nickerson, Basil S., and Curello. 3,033,136.
Mite Pipe Ram Co.: *See*—
Orcutt, Donald B. 3,022,042.
Mitman, Joseph C., to American Creosoting Corp. Support for railroad rails and method of making. 3,055,590, 9–25–62, Cl. 238—287.
Mitnitzky, Ingemar: *See*—
Boeryd, Arne G. T., Lindback, Fredriksson, and Mitnitzky. 3,069,508.
Söderbaum, Carl G., and Mitnitzky. 3,022,379.
Mitra, Arun K.: *See*—
Pitkin, Courtney G., and Mitra. 3,062,714.
Mitsubishi Kinzoku Kogyo Kabushiki Kaisha: *See*—
Ito, Chuko, Okuda, and Hamabe. 3,065,045.
Mitsunaga, Masaro: *See*—
Fujise, Seiichi, Nagai, and Mitsunaga. 3,063,803.
Mittag, Hermann, to Robert Bosch G.m.b.H. Generator installation. 3,028,537, 4–3–62, Cl. 322—25.
Mittag, Hermann, to Robert Bosch G.m.b.H. Generator installation. 3,065,400, 11–20–62, Cl. 322—25.
Mittag, Hermann, to Robert Bosch G.m.b.H. Power supply system for a vehicle. 3,065,401, 11–20–62, Cl. 322—25.
Mitteldeutsche Kuehlerfabrik G.m.b.H.: *See*—
Betz, Karl. 3,017,966.
Mittelstadt, Norbert F., and W. P. Pilz, Jr., to Plymouth Die Mold, Inc. Short-stroke press. 3,015,849, 1–9–62, Cl. 18—30.
Mittelstaedt, Georg S. Color radiography. 3,061,722, 10–30–62, Cl. 250—65.
Mittenbergs, Alexander A.: *See*—
Vutz, Wilhelm, and Mittenbergs. 3,030,875.
Mittenbergs, Alexander A., and W. F. Scharenberg, Jr., to American Iron and Machine Works Co., Inc. Method and apparatus for inspecting threads and cylinders. 3,047,-960, 8–7–62, Cl. 33—199.
Mittenzwei, Charles F. Pipe hanger. 3,032,305, 5–1–62, Cl. 248—62.
Mittenzwei, Charles F. Bracket. 3,047,263, 7–31–62, Cl. 248—72.
Mitter, Laurence J., and R. H. Whyte, to General Motors Corp. Clothes dryer with lint burner. 3,069,785, 12–25–62, Cl. 34—33.
Mittermaier, Armin F., to General Electric Co. Apparatus and method for assembling stacked magnetic cores. 3,023,493, 3–6–62, Cl. 29—203.
Mittermaier, Armin F., to General Electric Co. Stationary induction apparatus. 3,028,567, 4–3–62, Cl. 336—65.
Mitthauer, John R., and R. Vetere. Dental tool with power operated brake. 3,052,984, 9–11–62, Cl. 32—27.
Mittins, Frank W., to The Porter-Cable Machine Co. Saber saw. 3,056,437, 10–2–62, Cl. 143—68.
Mitton, Robert E., 22% to Hydro-Ventricle Brake Co., and small percentages to various assignees. Hydraulic brake system. 3,032,997, 5–8–62, Cl. 60—54.6.
Mitton, Robert E., to Hydro-Ventricle Brake Co. Fluid pressure control apparatus. 3,036,436, 5–29–62, Cl. 60—54.5.
Mittry, Fouad K., Jr.: *See*—
Wilms, Carl A., and Mittry. 3,052,050.
Mitz, Milton A.: *See*—
Metcalfe, Lincoln D., and Mitz. 3,024,283.
Volini, Marguerite, and Mitz. 3,069,323.
Miura, Yukichi, and A. Endo, to Sankyo Co., Ltd. Process for the preparation of pectolytic enzymes. 3,058,890, 10–16–62, Cl. 195—66.
Miville, Edouard. Soap and water mixing valve. 3,070,316, 12–25–62, Cl. 239—312.
Miwa, Ichiro: *See*—
Mihara, Hajime, Miwa, Ueno, and Morita. 3,060,211.
Miwa, Yukio, to H. Goodman. Eyeglass frames and the like. 3,049,974, 8–21–62, Cl. 88—53.
Mix, Albert L.: *See*—
Mottin, Ralph E., Mix, and Srigley. 3,043,415.
Mix, Konrad, to Cassella Farbwerke Mainkur Aktiengesellschaft. Spundyed regenerated cellulose products. 3,053,-678, 9–11–62, Cl. 106—165.
Mix, Robert C., to Minnesota Mining and Mfg. Co. Long yardage tape core. 3,025,015, 3–13–62, Cl. 242—68.5.
Mixon, Joseph L., to Westinghouse Electric Corp. Front opening dishwasher. 3,017,892, 1–23–62, Cl. 134—176.
Mixon, Joseph L., to Westinghouse Electric Corp. Dishwashing apparatus. 3,023,757, 3–6–62, Cl. 134—99.
Mixon, Joseph L., to Westinghouse Electric Corp. Dishwashing apparatus. 3,029,827, 4–17–62, Cl. 134—93.
Miyagawa, Tatsuo: *See*—
Misugi, Takahiko, and Miyagawa. 3,027,484.
Miyahara, Hisao, and H. Suzumura, to Kurashiki Rayon Co., Ltd. Polyvinyl acetate paint. 3,048,530, 8–7–62, Cl. 204—158.
Miyahara, Hisao, K. Hirano, H. Suzumura, and K. Nagano, to Kurashiki Rayon Co., Ltd. Adhesive agents for polyvinyl alcohol products. 3,058,862, 10–16–62, Cl. 154—46.
Miyakawa, Gene K. Rotary internal combustion engine. 3,057,156, 10–9–62, Cl. 60—39.34.
Miyake, Akira, to Takeda Pharmaceutical Industries, Ltd. Synthesis of antibiotically active amino acid. 3,061,633, 10–30–62, Cl. 260—482.
Miyake, Kunihiko: *See*—
Inaba, Yanosuke, Miyake, and Kimura. 3,046,254.
Inaba, Yanosuke, Miyake, and Kimura. 3,054,777.
Miyake, Tokuaki: *See*—
Fukuda, Shinro, Goto, Akashi, and Miyake. 3,046,158.
Fukuda, Shinro, Miyake, Akashi, and Seto. 3,026,215.
Miyamae, Takashi, and M. Shimokoshi, to Ajinomoto Co., Inc. Process for purification of threonine. 3,059,026, 10–16–62, Cl. 260—534.
Miyano, Masateru: *See*—
Matsui, Masanao, and Miyano. 3,065,244.
Miyasaka, Toru, to Yashica Co., Ltd. Film wind and shutter cocking mechanism. 3,062,116, 11–6–62, Cl. 95—31.
Miyatake, Kazuo, A. Okano, K. Hoji, T. Miki, A. Sakashita, Y. Oshima, and A. Kasahara, to Daiichi Seiyaku Co., Ltd. Method for the preparation of 16-acetyl-digitalinum-verum. 3,023,147, 2–27–62, Cl. 195—30.
Miyauchi, Hideo, to Yashica Co., Ltd. Fading mechanism for camera. 3,049,048, 8–14–62, Cl. 88—16.
Miyazaki, Sadamaru: *See*—
Osugi, Tetsuro, Tanabe, Kawabe, Yabe, Morimoto, and Miyazaki. 3,027,224.
Mizar Handels-Anstalt: *See*—
Enrico, Giovanni. 3,024,760.
Mize, William E.: *See*—
Johnson, Axel E. F., and Mize. 3,054,638.
Mize, William E., to Institutional Industries, Inc. Foldable wheel chair. 3,021,889, 2–20–62, Cl. 297—433.
Mizell, Louis R.: *See*—
Harris, Milton, and Mizell. 3,060,548.
Mizell, Louis R., to Appleton Mills. Method of making papermaker's felt. 3,030,690, 4–24–62, Cl. 28—72.
Mizelle, Ned W.: *See*—
Spound, Albert M., and Mizelle. 3,065,029.
Mizuno, Susumu: *See*—
Rokunohe, Mitsuru, Yoshida, Miyamoto, Mizuno, and Oketani. 3,068,126.
Mleczko, Alexander E., and R. A. Grimb. Load leveler adjustable trailer hitch bar. 3,035,856, 5–22–62, Cl. 280—490.
Mlinar, Elmer J., to The Weatherhead Co. Fabric reinforced rubber tube. 3,060,973, 10–30–62, Cl. 138—126.
Mlinar, Russell J.: *See*—
Buzicky, Edmund J., Johnson, Hilmanowski, and Mlinar. 3,038,641.
Mo Och Domsjö Aktiebolag: *See*—
Jullander, Elof I. 3,032,548.
Moanfeldt, Peter M.: *See*—
Wlodek, Stanley T., Weisert, and Moanfeldt. 3,028,236.
Moar, Jack, to Schuller Services Ltd. Method for producing coated bitumen pellets. 3,026,568, 3–27–62, Cl. 18—47.2.
Moats, Gail B.: *See*—
Chambers, Frank H., and Moats. 3,036,620.
Mobarry, John W., to Minneapolis-Honeywell Regulator Co. Supervised condition detection and alarm apparatus. 3,056,120, 9–25–62, Cl. 340—213.
Mobarry, John W., to Minneapolis-Honeywell Regulator Co. Electric terminal. 3,066,204, 11–27–62, Cl. 200—87.
Mobay Chemical Co.: *See*—
Breer, Karl, and Weinbrenner. 3,056,661.
Britain, J. W. 3,036,020.
Britain, J. W. 3,054,757.
Britain, J. W. 3,054,758.
Britain, J. W. 3,054,759.
Dierichs, Helmut, and Holzrichter. 3,032,586.
Ebneth, Harold. 3,016,575.
Gemeinhardt, Paul G. 3,061,556.
Gemeinhardt, Paul G., and Sandridge. 3,060,137.
Hardy, Edcar E. 3,047,282.
Holtschmidt, Hans. 3,016,365.
Holtschmidt, Hans. 3,027,353.
Holtschmidt, Hans. 3,032,535.
Holtschmidt, Hans, and Muller. 3,027,354.
Hoope, Peter, Paffrath, Weinbrenner, and Breer. 3,052,-927.
Hudson, George A. 3,069,287.
Jäckel, Fritz. 3,016,756.
Merten, Rudolf. 3,027,399.
Morschel, Heinrich, and Loew. 3,022,255.
Müller, Erwin. 3,016,364.
Muller, Erwin, Holtschmidt, and Braun. 3,021,289.

Mobay Chemical Co.: *See*—Continued
Müller, Karl E., Holtschmidt, Morschel, and Braun. 3,026,275.
Muller, Erwin, Wiegand, and Braun. 3,050,475.
Nagenborg, Heinrich, Jr., and Reuter. 3,020,933.
Nischk, Gunther, and Müller. 3,047,530.
Polis, Samuel. 3,044,971.
Reuter, Franz G. 3,027,182.
Reuter, Franz G. 3,039,795.
Reuter, Franz G. 3,070,408.
Rinke, Heinrich. 3,035,475.
Sandridge, Robert L., and Morecroft. 3,067,148.
Schmidt, Karl-Ludwig, Muller, Bayer, Genski, and Peter. 3,036,042.
Thoma, Wilhelm, and Rinke. 3,066,117.
Wagner, Kuno, and Bayer. 3,023,228.
Wagner, Kuno, Muller, Holtschmidt, and Bayer. 3,043,-801.
Weinbrenner, Erwin, Hoppe, and Breer. 3,031,271.
Weinbrenner, Erwin, Tischbein, Hoppe, and Brochhagen. 3,050,422.
Windemuth, Erwin, and Merten. 3,054,755.
Zankl, Erich, and Hebermehl. 3,045,034.
Moberg, Ivar O., to Fieldcrest Mills, Inc. Variable cloth take-up for looms. 3,066,704, 12–4–62. Cl. 139—304.
Moberg, Sigurd M., to H. H. Brooks Co. Key for a plunger type lock. 3,033,016, 5–8–62, Cl. 70—395.
Moberg, Wilfred G., ¼0 to Gadget-of-The-Month Club, Inc. Ladder and support. 3,029,897, 4–17–62, Cl. 182—206.
Moberly, Charles W.: *See*—
Wicklatz, John E., and Moberly. 3,049,529.
Moberly, Charles W., and S. Renaudo, to Phillips Petroleum Co. Process for removal of catalyst from hydrogenated polymer solutions. 3,023,201, 2–27–62, Cl. 260—94.7.
Mobilcolor, Inc.: *See*—
Way, Frederick L. 3,018,683.
Mobley, John C. Wildlife caller. 3,029,554, 4–17–62, Cl. 46—177.
Mobley, John C. Wild life caller. 3,066,443, 12–4–62, Cl. 46—177.
Mobley, Paul R., and W. R. Blackham, to General Electric Co. Ni, Cr, Pd, Mn, Si brazing alloy. 3,053,652, 9–11–62, Cl. 75—171.
Mobley, William R. Air exhaust and impeller rotor for treating air to provide comfort in hot and cold weather. 3,058,651, 10–16–62, Cl. 230—134.
Mobley, William R. Means and method for the automatic separating and purifying of liquids of different specific gravities. 3,067,877, 12–11–62, Cl. 210—83.
Moccand, Adrien, and G. Gagnebin, to Paillard S.A. Escapement mechanism. 3,034,630, 5–15–62, Cl. 197—88.
Mochel, Walter E., and L. Plambeck, Jr., to E. I. du Pont de Nemours and Co. Photopolymerizable compositions comprising polymeric chelates and their use in the preparation of reliefs. 3,016,297, 1–9–62, Cl. 96—35.
Mock, Frank C., to The Bendix Corp. Water injection system for gas turbine engines. 3,021,673, 2–20–62, Cl. 60—39.26.
Mock, Frank C., to The Bendix Corp. Gas turbine engine having coordinated fuel, compressor outlet area and turbine inlet area control. 3,025,668, 3–20–62, Cl. 60—39.24.
Mock, Frank C., to The Bendix Corp. Power output control for a gas turbine engine. 3,066,488, 12–4–62, Cl. 60—39.24.
Mocker, William A., F. W. Packard, and J. J. Zimsky, to McGraw-Edison Co. Methods for making preformed insulation for stationary induction apparatus. 3,058,160, 10–16–62, Cl. 18—47.5.
Mockrin, Isadore, to Pennsalt Chemicals Corp. Articles containing fluoaluminates as dielectrics. 3,016,480, 1–9–62. Cl. 317—230.
Mod, Robert R.: *See*—
Magne, Frank C., Skau, and Mod. 3,066,111.
Mod, William A., and C. W. Becker, to The Dow Chemical Co. Recovery of beryllium from acid leach solutions. 3,059,998, 10–23–62, Cl. 23—183.
Modderno, John P., to Modern-Lab., Inc. Method for filling and assembling a compartmented pressurized dispensing device. 3,020,688, 2–13–62, Cl. 53—36.
Model Plastic Corp.: *See*—
Cohn, David. 3,015,856.
Cohn, David. 3,022,920.
Cohn, David. 3,037,246.
Model Vending Controls, Inc.: *See*—
Timms, Ross L. 3,068,984.
Modella Mfg. Co., Inc., The: *See*—
Del Guercio, Victor R. 3,063,452.
Modelle, Philip A., to Kimble Glass Co. Apparatus for shaping mouth portions of glass articles. 3,048,945, 8–14–62, Cl. 49—7.
Modelli, Renato: *See*—
Camerino, Bruno, Modelli, Patelli, Sala, and Baldratti. 3,061,616.
Spalla, Celestino, Modelli, and Amici. 3,030,278.
Modern Engraving and Machine Co.: *See*—
Nelson, Robert F. 3,042,996.
Nelson, Robert F. 3,048,512.
Modern Equipment Co.: *See*—
Port, John J., Jr., and Rehfeld. 3,058,180.
Modern Hydraulics, Inc.: *See*—
Friesen, Peter D. 3,028,142.
Renshaw, Robin. 3,018,995.
Renshaw, Robin. 3,047,269.
Modern-Lab., Inc.: *See*—
Modderno, John P. 3,020,688.
Modern Metal Products Co.: *See*—
Smith, Harvey J. 3,028,206.
Modern Plastic Machinery Corp.: *See*—
Rothacker, Francis N. 3,031,332.
Modern Shoe Making Machine Corp.: *See*—
Ciaio, Joseph A. 3,026,573.
Modern Telephones (Great Britain) Ltd.: *See*—
Cawthra, Arthur I. F., and Cawthra. 3,065,300.
Modern Wall: *See*—
Obraske, Gerald W. 3,069,713.
Modernair Corp.: *See*—
Goldering, John E. 3,035,268.
Hopkinson, Mark L. Re 25,132.
Moderne de Fabrications Mecaniques, Societe: *See*—
Rouby, Charles. 3,023,528.
Modersohn, Charles W., to Warner Electric Brake & Clutch Co. Momentum type torque producing device. 3,037,586, 6–5–62, Cl. 188—138.
Modi, Harsukh J.: *See*—
Sallo, Jerome S., Fisher, Tsu, and Modi. 3,032,486.
Tsu, Ignatius, Sallo, Fisher, and Modi. 3,032,485.
Modic, Frank J., to General Electric Co. Organopolysiloxane fibers. 3,017,384, 1–16–62, Cl. 260—46.5.
Modic, Frank J., and J. E. Saville, to General Electric Co. Silicone-polyester copolymer and process for preparing same. 3,044,980, 7–17–62, Cl. 260—45.4.
Modica, Joseph J. Knockdown carton. 3,039,673, 6–19–62, Cl. 229—38.
Modine Mfg. Co.: *See*—
Huggins, Homer D., Morse, and Dolister. 3,045,979.
Simpelaar, Clyde S. 3,021,804.
Simpelaar, Clyde S. 3,069,765.
Slaasted, Raymond S., and Kohler. 3,017,161.
Modine, Thomas B.: *See*—
Norton, Clarence E., and Modine. 3,028,116.
Modispacher, Donald R.: *See*—
Mitchell, Hugh A., Furon, and Modispacher. 3,036,151.
Modney, William: *See*—
Grammer, Reynold A., Jr., and Modney. 3,053,985.
Modu-Wall, Inc.: *See*—
Heward, John R. 3,024,502.
Moe, Frank R., to A. O. Smith Corp. Blanking die and method of making the same. 3,046,815, 7–31–62, Cl. 76—107.
Moe, Henry: *See*—
Corson, Ben B., and Moe. 3,047,643.
Moe, Wynkoop B., D. Smith, C. E. Miller, and S. R. Cray, to Sperry Rand Corp. Digital incremental computer. 3,039,688, 6–19–62, Cl. 235—152.
Moe, William W., to Time, Inc. Electro-mechanical device. 3,029,387, 4–10–62, Cl. 324—97.
Moe, William W., and H. D. Parks, to Time, Inc. Magnetic wire support frame. 3,030,453, 4–17–62, Cl. 179—100.2.
Moebius, Frederick C., to Teletype Corp. Unitary selector assemblage for printing telegraph apparatus. 3,033,927, 5–8–62. Cl. 178—33.
Moebius, Friederick C., to Teletype Corp. Non-repeat and signal assemble mechanism for printing telegraph apparatus. 3,036,155, 5–22–62, Cl. 178—17.
Moeckel, Wolfgang E.: *See*—
Jack, John R., and Moeckel. 3,016,693.
Moed, Hendrik D.: *See*—
Kralt, Thijnis, and Moed. 3,067,206.
Moed, Hendrik D., to North American Philips Co., Inc. Aralkylamines and methods of preparation thereof. 3,056,-836, 10–2–62, Cl. 260—570.7.
Moehl, Albert H.: *See*—
Martin, Paul J., and Moehl. 3,061,295.
Moehlenpah, Walter G., and G. E. Pallme, Jr., to Hydro-Air Engineering, Inc. Apparatus for fabricating wood structures. 3,068,483, 12–18–62, Cl. 1—149.
Moehlenpah, Walter G., and G. E. Pallme, Jr., to Hydro-Air Engineering, Inc. Apparatus for fabricating wood structures. 3,068,484, 12–18–62, Cl. 1—149.
Moehlenpah, Walter G., and G. E. Pallme, Jr., to Ar-Ka Engineering, Inc. Apparatus for fabricating wood structures. 3,069,684, 12–25–62, Cl. 1—149.
Moeken, Herman H. P.: *See*—
Huising, Wilhelmus B., Moeken, and Nonhebel. 3,053,644.
Moeller, Adolph F., to United States of America, Navy. Buoy with explosive anchor. 3,054,123, 9–18–62, Cl. 9—9.
Moeller, Alvin W., and J. G. Neuberth, to The Bendix Corp. Feed assembly for circular or linear polarization. 3,024,-463, 3–6–62, Cl. 343—783.
Moeller, Alvin W., and E. G. Shelor, Jr., to The Bendix Corp. Microwave antenna feed for circular polarization. 3,031,661, 4–24–62, Cl. 343—100.
Moeller, Calvin E. Thermocouple wire connection. 3,041,-387, 6–26–62, Cl. 136—4.
Moeller, Carl A., Jr., to Image Transfer Inc. Valve. 3,016,-915, 1–16–62, Cl. 137—595.
Moeller, Heinrich W. R., and P. I. Powis, to Aluminum Laboratories Ltd. Stud planting apparatus. 3,027,559, 4–3–62, Cl. 1—1.
Moeller Instrument Co.: *See*—
Chatterton, John B. 3,039,042.
Moeller, John D., and T. R. Scarff, to General Motors Corp. Gas driven hydraulic pump. 3,019,735, 2–6–62, Cl. 103—49.

Moeller, Lowell J., to Western Electric Co., Inc. Method of and aparatus for forming cage-like terminal strip subassemblies. 3,045,712, 7–24–62, Cl. 140—71.
Moeller, William C., to Parmelee Plastics Co. Nose pad for spectacles. 3,049,973, 8–21–62, Cl. 88—48.
Moeller, William C., to Parmelee Plastics Co. Combined bow and frame unit for eye shield front. 3,066,573, 12–4–62, Cl. 88—41.
Moeller, William C., to Parmelee Plastics Co. Spectacle assembly. 3,068,751, 12–18–62, Cl. 88—47.
Moen, Alfred M. Butterfly valve. 3,029,063, 4–10–62, Cl. 251—306.
Moen, Gene C. Helicopter weight and load computer. 3,059,848, 10–23–62, Cl. 235—78.
Moen, Rolf, to General Mills, Inc. Apparatus for measuring flow rate. 3,018,662, 1–30–62, Cl. 73—218.
Moen, Walter B.: *See*—
Balcar, Frederick R., and Moen. 3,062,017.
Moench, Frank F., to Specialty Mfg. Inc. Asphalt cutter for attachment to a moldboard. 3,067,989, 12–11–62, Cl. 262—20.
Moenke, Alfred R., to Wheelock Signals, Inc. High-speed relay. 3,060,292, 10–23–62, Cl. 200—104.
Moenus A.G., Maschinenfabrik: *See*—
Diemel, Heinrich, and Gopel. 3,060,469.
Müller, Heinrich, and Lischer. 3,052,145.
Moerman, Willem, to North American Philips Co., Inc. Stud welding. 3,038,989, 6–12–62, Cl. 219—99.
Moes, Geert: *See*—
Lolkema, Jan, Moes, and Vogel. 3,036,935.
Strating, Jan, Moes, and Vogel. 3,046,272.
Moffat, Robert J.: *See*—
Bockemuehl, Robert R., and Moffat. 3,030,575.
Moffats Ltd.: *See*—
Barefoot, Victor T. 3,067,736.
Smith, David G. 3,030,102.
Smith, David G. 3,043,290.
Smith, David G. 3,051,819.
Moffett, Charles R.: *See*—
Dent, Eugene, and Moffett. 3,043,103.
Moffett, Frank E.: *See*—
Eichelman, John M. and B. S., Towsley, F. E. and J. F. Moffett, and Zeltner. 3,025,648.
Moffett, John F.: *See*—
Eichelman, John M. and B. S., Towsley, F. E. and J. F. Moffett, and Zeltner. 3,025,648.
Moffett, Robert B.: *See*—
Aspergren, Brooke D., Moffett, and Speeter. 3,022,314.
Moffett, Robert B., to The Upjohn Co. N-alkenyl-trialkoxybenzamides. 3,036,128, 5–22–62, Cl. 260—559.
Moffett, Robert S., to Insul-Seal Products, Inc. Insulation material. 3,027,326, 3–27–62, Cl. 252—62.
Moffitt, Guy R., to United Aircraft Corp. Variable reluctance device. 3,041,486, 6–26–62, Cl. 310—168.
Moffitt, John A., Jr., and A. S. Kidwell, to The Connecticut Hard Rubber Co. Wire reinforced polytetrafluoroethylene seal. 3,020,185, 2–6–62, Cl. 154—53.
Moffitt, Merritt L., Jr.: *See*—
Struble, Albert, and Moffitt. 3,063,749.
Moffitt, Thomas L., and N. C. Herrmann, to Northeast Capital Corp. Push button switch unit for turn signal indicators. 3,019,311, 1–30–62, Cl. 200—61.27.
Moffly, Edward K., to A. P. de Sanno & Son, Inc. Grinding wheel. 3,041,797, 7–3–62, Cl. 51—195.
Moggre, Anthonie J.: *See*—
Janssen, Peter J. H., and Moggre. 3,020,484.
Mohan, Joseph C., Jr., to Pennsalt Chemicals Corp. Continuous multi-stage process for production of dibasic calcium hypochlorite. 3,030,177, 4–17–62, Cl. 23—86.
Mohan, William L.: *See*—
Willits, Samuel P., and Mohan. 3,023,317.
Mohar, Jack L. Space vehicle. 3,053,476, 9–11–62, Cl. 244—1.
Mohasco Industries, Inc.: *See*—
Pospiszel, Joseph T. 3,038,679.
Mohawk Business Machines Corp.: *See*—
Balvin, Joseph A., and Heine. 3,042,281.
Heine, Wolfgang F., and Meri. 3,019,396.
Westerfeld, Ralph, and Meri. 3,019,302.
Mohler, Donald, and J. R. Ritter, to General Electric Co. Electrolytic capacitor and electrolyte therefor. 3,065,389, 11–20–62, Cl. 317—230.
Mohler, Harvey H. Adjustable chair. 3,065,989, 11–27–62, Cl. 297—88.
Mohler, Robert D., to Motorola, Inc. Voltage regulated power supply. 3,069,617, 12–18–62, Cl. 323—22.
Mohler, William F., to Lewis K. Rimer. Low-force valve control. 3,033,228, 5–8–62, Cl. 137—490.
Mohler, William F., and I. Aberbom, to Ronson Hydraulic Units Corp. Tube filling machine. 3,032,951, 5–8–62, Cl. 53—141.
Mohlman, John W., to Standard Oil Co. Fluidized catalyst regeneration. 3,048,529, 8–7–62, Cl. 204—154.
Mohnhaupt, Dietrich F. A., to Permaco S.A. Process of manufacture of temperature-sensitive recording paper. 3,020,172, 2–6–62, Cl. 117—36.7.
Mohnkern, Gerald E., and R. L. Stone, to United States Steel Corp. Method of forming an upset on the end of a tube. 3,038,251, 6–12–62, Cl. 29—534.
Mohr, Adolf, to Avog Elektro- und Feinmechanik G.m.b.H. Oscillating electric motor with armature having a linear gap. 3,042,817, 7–3–62, Cl. 310—38.
Mohr, Albert, Jr., to John Mohr & Sons. Burner valve. 3,068,888, 12–18–62, Cl. 137—340.
Mohr, Elisabeth: *See*—
Schramm, Gerhard, and Mohr. 3,022,227.
Mohr, Fritz, and W. Boddicker. Metal tubing. 3,058,494, 10–16–62, Cl. 138—158.
Mohr, Gunther: *See*—
Thesing, Jan, Mohr, and Semler. 3,037,992.
Mohr, James R.: *See*—
Larson, John I., Mohr, Eilers, and Logemann. 3,065,974.
Mohr, John, & Sons: *See*—
Mohr, Albert, Jr. 3,068,888.
Mohr, Robert C. 3,070,039.
Mohr, John G.: *See*—
Santelli, Thomas R., Mohr, and Calendine. 3,046,243.
Mohr, Paul H.: *See*—
Fay, Homer, Mohr, and Cook. 3,032,654.
Mohr, Robert C., to John Mohr & Sons. Hot metal mixer car. 3,070,039, 12–25–62, Cl. 105—270.
Mohr, Robert G., to Brunswick Corp. Power operator mechanism for a folding partition. 3,062,066, 11–6–62, Cl. 74—222.
Mohr, Robert G., and R. J. Lappin, to Brunswick Corp. Book box desk. 3,015,531, 1–2–62, Cl. 312—316.
Mohr, Robert G., and D. A. Bice, to Brunswick Corp. Drawer lock. 3,023,066, 2–27–62, Cl. 312—219.
Mohr, Rolf: *See*—
Leupold, Curt W., Mohr, and Sponsel. 3,025,203.
Mohr, Rudolf. Cutting stick member for paper cutting machines. 3,046,824, 7–31–62, Cl. 83—658.
Mohring, Gustav. Apparatus for preparing undulated webs of woven material. 3,029,491, 4–17–62, Cl. 26—57.
Mohring, Gustav. Combined tenter clip for cloth tentering devices. 3,054,159, 9–18–62, Cl. 26—62.
Mohring, Gustav. Mounting means for pin racks of cloth stretching and drying machines. 3,066,378, 12–4–62, Cl. 26—62.
Mohror, David W. Table attachment for lawn chairs. 3,025,103, 3–13–62, Cl. 297—171.
Mohun, William A., to Nilok Chemicals, Inc. Mineral active carbon and process for producing same. 3,066,099, 11–27–62, Cl. 252—445.
Mohwinkel, Franz, and H. Funke: said Funke assor. to said Mohwinkel. Belt conveyors. 3,015,381, 1–2–62, Cl. 198—203.
Moir, Alexander T.: *See*—
Read, Frank O., Carman, Cross, and Moir. 3,062,738.
Moisson, George M., Jr., to Northrop Corp. Method of filling hollow shapes. 3,041,229, 6–26–62, Cl. 156—80.
Moisson, George M., Jr., to Northrop Corp. Shock absorber. 3,056,596, 10–2–62, Cl. 267—1.
Moisture Regulator Co.: *See*—
Wead, Carver A., and McBrayer. 3,046,479.
Mojonnier Bros. Co.: *See*—
Mojonnier, Julius J., and Brna. 3,061,448.
Mojonnier, Julius J., and M. A. Brna, to Mojonnier Bros. Co. Fruit juice concentration. 3,061,448, 10–30–62, Cl. 99—205.
Moklebust, Olav, to R-N Corp. Rotary cylindrical heat transfer device. 3,026,627, 3–27–62, Cl. 34—136.
Moklebust, Olav, and J. I. Walker, to R-N Corp. Bed depth gauge for rotary kiln. 3,026,728, 3–27–62, Cl. 73—298.
Mokrzycki, Wojciech, Automatic gasoline saver. 3,039,449, 6–19–62, Cl. 123—124.
Molan, John S., to C.S.M. Screw Products Co. Handle shank attachment arrangement and method for making same. 3,038,746, 6–12–62, Cl. 287—20.2.
Molander, William A., Jr., and S. J. Gut, to General Precision Inc. Straddle flapper controlled hydraulic valve. 3,065,145. 11–20–62, Cl. 137—623.
Mold-A-Rama, Inc.: *See*—
Miller, John H., and Helms. 3,068,518.
Molden, James W.: *See*—
Ballentine, William I., Jr., and Molden. 3,020,867.
Molectronics Corp.: *See*—
Hudson, Harold R. 3,047,751.
Molek, John G.: *See*—
Frazelle, Jay B. 3,018,898.
Molenaar, Henri C. Reciprocating pumps. 3,025,550, 3–20–62, Cl. 15—250.02.
Molenaar, Henri C. Windshield washers. 3,039,127, 6–19–62, Cl. 15—250.02.
Molho, Darius, to Lipha Lyonnaise Industrielle Pharmaceutique. New 4-hydroxycoumarin derivatives and processes for the preparation thereof. 3,032,557, 5–1–62, Cl. 260—343.2.
Molinaro, Gregory R., to United States Steel Corp. Method of centering the distributor hopper with respect to the small bell of a blast furnace and a gage for use therewith. 3,043,013, 7–10–62, Cl. 33—162.
Moline, Robert E.: *See*—
Del Faro, Gordon P., Moline, and Conaway. 3,055,420.
Molins, Desmond W., to Molins Machine Co. Ltd. Machines for manipulating cut tobacco. 3,028,866, 4–10–62, Cl. 131—109.
Molins, Desmond W., to Molins Machine Co. Ltd. Tobacco manipulating machines. 3,036,578, 5–29–62, Cl. 131—21.
Molins, Desmond W., to Molins Machine Co. Ltd. Cigarette-making machinery. 3,062,357, 11–6–62, Cl. 198—57.
Molins, Desmond W., and N. W. Jackson, to Molins Machine Co. Ltd. Manufacture of mouthpiece cigarettes. 3,026,879, 3–27–62, Cl. 131—94.

Molins, Desmond W., and C. Best, to Molins Machine Co. Ltd. Apparatus for receiving cigarettes from the cut-off of a continuous rod cigarette-making machine. 3,039,589, 6–19–62, Cl. 198—31.
Molins, Desmond W., and T. Rowlands, to Molins Machines Co. Ltd. Apparatus for making mouthpiece cigarettes. 3,059,651, 10–23–62, Cl. 131—94.
Molins, Desmond W., T. Rowlands, and J. A. Rakowicz, to Molins Machine Co. Ltd. Apparatus for feeding stubs. 3,062,588, 11–6–62, Cl. 302—2.
Molins, Desmond W., G. F. Pembroke, and J. G. E. Hillman, to Molins Machine Co. Ltd. Apparatus for conveying cigarettes. 3,070,207, 12–25–62, Cl. 198—32.
Molins Machine Co. Ltd. : *See—*
Best, Cyril. 3,039,590.
Bolt, Reginald C. 3,040,179.
Chalmers, John W., and Harris. 3,057,126.
Cagg, James, Stone, and Gemmell. 3,061,220.
Labbe, Francis A. M. 3,019,793.
Molins, Desmond W. 3,028,866.
Molins, Desmond W. 3,036,578.
Molins, Desmond W. 3,062,357.
Molins, Desmond W., and Best. 3,039,589.
Molins, Desmond W., and Jackson. 3,026,879.
Molins, Desmond W., Pembroke, and Hillman. 3,070,207.
Molins, Desmond W., and Rowlands. 3,059,651.
Molins, Desmond W., Rowlands, and Rakowicz. 3,062,588.
Pembroke, George F., and Hillman. 3,026,661.
Perrin, Bernard. 3,053,580.
Perrin, Bernard, and Horey. 3,053,258.
Pocock, Frederick, and Ahern. 3,031,883.
Rowlands, Tom. 3,052,164.
Molls, Benedict, to Economy Engineering Co. Lift truck articulated power unit. 3,050,153, 8–21–62, Cl. 187—9.
Molitor, Victor D. Food display device. 3,020,113, 2–6–62, Cl. 312—284.
Molitor, Victor D. Display device for heated food. 3,038,986, 6–12–62, Cl. 219—35.
Moll, Martvig J. : *See—*
Harper, Willard J., Hauck, Moll, and Dutcher. 3,022,881.
Moll, Werner. Speed-etching machine. 3,052,247, 9–4–62, Cl. 134—191.
Moll, Willard H. : *See—*
Kelley, Donald E., Moll, Parsons, and Pascale. 3,042,-603.
Molla, Charles P. Knockdown chairs having reversible cushions employing supporting frames. 3,038,758, 6–12–62, Cl. 297—445.
Molla, Charles P. Coupling device for straps or webbings. 3,067,475, 12–11–62, Cl. 24—73.
Molla, Pietro, to Societa per azioni Fabbriche Fiammiferi ed Affini. Machine for joining corrugated paper tubes. 3,035,-498, 5–22–62, Cl. 93—77.
Mollard, Paul, to Societe d'Electro-Chimie d'Electro-Metallurgie et des Acieries Electrique d'Ugine. Process of making sodium perborate by electrolysis. 3,038,842, 6–12–62, Cl. 204—55.
Möller, Bernhard. Mobile pigeon starting apparatus and loft. 3,066,647, 12–4–62, Cl. 119—15.
Moller, Bynum W. Well test-completion tool. 3,029,875, 4–17–62, Cl. 166—224.
Möller, Friedrich : *See—*
Trescher, Victor, Loew, Delfs, and Möller. 3,036,021.
Moller, George A. Protective device for pocket wallets or the like. 3,045,734, 7–24–62, Cl. 150—47.
Möller, Göran A. Process of coating base metals with aluminum. 3,048,497, 8–7–62, Cl. 117—52.
Moller, Hans G., and F. W. Kallmeyer. Radar set. 3,055,-000, 9–18–62, Cl. 343—5.
Moller, Hans G., and F W. Kallmeyer. Production of pictures of true paths of motion from instantaneous pictures from a vehicle or vessel by pulse reflection. 3,067,416, 12–4–62, Cl. 343—5.
Moller, Heinz. Continuously operating sausage filling machine. 3,052,915, 9–11–62. Cl. 17—40.
Moller, Karl E. : *See—*
Koch, Herbert, and Moller. 3,061,621.
Moller, Ragnar O. J., and T. B. A. Frilund, to Turbin Aktiebolaget de Laval Ljungstrom. Double-acting radial flow steam turbine. 3,056,263, 10–2–62, Cl. 60—73.
Möller, Waldemar, to Bodenseewerk Perkin-Elmer & Co., G.m.b.H. Stabilizing and control device for small airborne objects. 3,021,714, 2–20–62, Cl. 74—5.6.
Möller, Waldemar, to Bodenseewerk Perkin-Elmer u. Co. G.m.b.H. Variable-speed motor. 3,050,671, 8–21–62. Cl. 318—171.
Mollering, Karl F. : *See—*
Stampe, Gerhard, Mollering, and Grosskopf. 3,026,711.
Molloy, Martin, and Z. Shabad, to Sonotone Corp. Magnetic feedback suppression between battery-cell and a transistor amplifier. 3,054,863, 9–18–62, Cl. 179—107.
Molly, Daniel G. : *See—*
Minnick, Gerald D., and Molly. 3,040,701.
Molly, Hans, ½ to O. Eckerle. High pressure gear pump. 3,043,230, 7–10–62, Cl. 103—126.
Molnar, Eugene J. Dental composition and process of making same. 3,028,247, 4–3–62, Cl. 106—35.
Molnar, Eugene J., to Coe Laboratories, Inc. Method of preparing solid elastomers from uncured liquid organic polythiopolymercaptan polymers. 3,046,248, 7–24–62, Cl. 260—31.8.
Molnar, Imre, to Automatic Electric Laboratories, Inc. Calling station detector. 3,046,344, 7–24–62 Cl. 179—9.
Molnar, Imre, to Automatic Electric Laboratories, Inc. Station identification apparatus. 3,046,349, 7–24–62, Cl. 179—17.
Molnar, William S. : *See—*
Ross, Joseph H., Jr., Molnar, and Riley. 3,032,540.
Molomot, Oscar H., to Truckers Specialty Printing Co., Inc. Marking device. 3,020,067, 2–6–62, Cl. 281—29.
Moloney Electric Co. : *See—*
Cooper, Alfred S. 3,049,793.
Cooper, Alfred S. 3,066,388.
Duenke, Clarence G. 3,066,207.
Moloney, Raymond T. : *See—*
Breitenstein, Charles T. 3,034,790.
Breitenstein, Charles T. 3,035,617.
Molotsky, Hyman M. : *See—*
Boyer, William M., Molotsky, and Tarbell. 3,038,875.
Molotsky, Hyman M., to Velsicol Chemical Corp. Alkoxynaphthalenes. 3,031,464, 4–24–62, Cl. 260—346.2.
Molotsky, Hyman M., W. M. Boyer, and H. E. Tarbell, Jr., to The Richardson Co. Modification of silicon-nitrogen containing compounds. 3,036,019, 5–22–62, Cl. 260—2.
Molotsky, Hyman M., W. M. Boyer, and H. E. Tarbell, Jr., to The Richardson Co. Composition comprising polymeric reaction product of ammoniacal compound and halosilane. 3,047,527, 7–31–62, Cl. 260—37.
Molsberry, Mahlon V., W. G. Wefel, and D. E. Walker, to Consolidated Water Power & Paper Co. Paper coating apparatus. 3,044,440, 7–17–62, Cl. 118—249.
Molt, Kenneth R. : *See—*
Hechenbleikner, Ingenuin, and Molt. 3,059,012.
Molybdenum Corp. of America : *See—*
Linz, Arthur, and Tisdale. 3,020,153.
Molyneux, George. Means for securing track rails. 3,028,-099, 4–3–62, Cl. 238—317.
Molzahn, Herbert W., to International Harvester Co. Unitary working cylinder with piston retaining means. 3,065,734, 11–27–62, Cl. 121—38.
Monberg, James W., and E. W. Taylor, to The Singer Mfg. Co. Motor control system. Re. 25,203, 7–24–62, Cl. 318—246.
Monaci, Avito : *See—*
Cappuccio, Vittorio, Monaci, and Bonvicini. 3,022,191.
Monaco, Anthony T. : *See—*
Hildeman, Richard J., and Monaco. 3,069,638.
Monaco, Gabriel R. : *See—*
Smith, William R., and Monaco. 3,024,739.
Smith, William R., and Monaco. 3,054,214.
Monaco, Ugo, to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Process and machine for the continuous production of corrugated laminates of plastic materials. 3,050,109, 8–21–62, Cl. 156—588.
Monaghan, Hugh M., to Litton Systems, Inc. Phased synchronous drive for recorders and the like. 3,017,784, 1–23–62, Cl. 74—395.
Monaghan, J. J., Co., Inc. : *See—*
Haverland, William H., and Brush. 3,067,760.
Kubicek, William G. 3,059,635.
Monaghan, John T., to United States Steel Corp. Sintering method and apparatus. 3,043,677, 7–10–62, Cl. 75—5.
Monaghan, Patrick H. : *See—*
Dumbauld, George K., and Monaghan. 3,065,170.
Monaghan, Patrick H., to Jersey Production Research Co. Method and composition for use in wells. 3,041,276, 6–26–62, Cl. 252—8.5.
Monaghan, Ralph, to Well Surveys, Inc. Tracer logging by neutron activation. 3,019,341, 1–30–62, Cl. 250—106.
Monaghan, Ralph, B. F. Wilson, and G. Knapp, to Well Surveys, Inc. Thickness detector for coal mining machine. 3,019,338, 1–30–62, Cl. 250—83.3.
Monagle, John J., Jr., and H. R. Nace, to E. I. du Pont de Nemours and Co. Process for the preparation of carbodiimides. 3,056,835, 10–2–62, Cl. 260—551.
Monahan, Brian J. Combination lock. 3,027,743, 4–3–62, Cl. 70—129.
Monahan, Edward J., and H. E. Peckham, to National Biscuit Co. Closure means. 3,047,206, 7–31–62, Cl. 229—66.
Monahan, Jack J. : *See—*
Fliezar, Geza B., and Monahan. 3,016,443.
Fliezar, Geza B., and Monahan. 3,028,887.
Fliezar, Geza B., and Monahan. 3,036,186.
Fliezar, Geza B., and Monahan. 3,041,128.
Fliezar, Geza B., and Monahan. 3,043,449.
Frank, Gerard A., Miller, and Monahan. 3,058,569.
Monahan, Jack J., and R. C. Shafer, to Western Electric Co., Inc. Apparatus for mounting wires on articles. 3,045,715, 7–24–62, Cl. 140—112.
Monarch Equipment Co. : *See—*
Roth, Grant V. W., and Saari. 3,025,871.
Monarch Machine Tool Co., The : *See—*
Albrecht, Albert B. 3,036,361.
Shaw, Richard L. 3,053,583.
Ulman, Wayne H. 3,024,610.
Ulman, Wayne H., and Gausching. 3,017,863.
Monarch Mfg. Works, Inc. : *See—*
Scholz, Ferdinand G. 3,053,462.
Monarch Metal Weatherstrip Corp. : *See—*
Goellner, John A. 3,028,638.
Monarch Tool & Machinery Co. : *See—*
Budreck, Frances. 3,027,036.
Budreck, Frances, and Bey. 3,034,025.

Monastery of The Holy Ghost, Inc., The: *See*—
Hall, Richard A. 3,063,413.
Monastyrsky, Nicolas: *See*—
Nemec, Joseph. 3,033,060.
Moncada, Michael L.: *See*—
Lesser, Mortimer, and Moncada. 3,063,558.
Lesser, Mortimer, and Moncada. 3,067,653.
Moncrieff, Douglas M.: *See*—
Seeley, Elwin W., and Moncrieff. 3,069,680.
Monda, Steven M., and W. A. Fordeck, to The Magnavox Co. Electromechanical filter. 3,033,955, 5–8–62, Cl. 200—91.
Mondie Forge Co.: *See*—
Schroeder, Harry E. 3,017,699.
Mondria, Hendrik: *See*—
Van de Vusse, Jan G., Mondria, and Alders. 3,059,005.
Mondt, Vernon E.: *See*—
Azari, Eric, Mondt, and Malin. 3,069,156.
Mones, Arthur H., G. Mandel, and A. W. Sperling, to Hogan Faximile Corp. Protective coating for facsimile prints. 3,028,262, 4–3–62, Cl. 117—33.3.
Monet, Gilbert P., to E. I. du Pont de Nemours and Co. Recovery of adipic acid and hexamethylene diamine from nylon. 3,0c9,465, 12–18–62, Cl. 260—537.
Money, Reginald W.: *See*—
Gluckstein, Leonard, and Money. 3,069,271.
Money, Robert G. Locker unit. 3,042,470, 7–3–62, Cl. 312—198.
Moneypenny, David L.: *See*—
Nelson, Jack W., and Moneypenny. 3,033,153.
Monfardini, Louis P., to Florida Brace Corp. Single piece adjustable cervical collar. 3,024,784, 3–13–62, Cl. 128—75.
Monfardini, Louis P., to Florida Brace Co. Cervical collars. 3,042,026, 7–3–62, Cl. 128—75.
Monfardini, Louis P., to Florida Brace Corp. Cervical collars. 3,042,027, 7–3–62, Cl. 128—75.
Monforts, A.: *See*—
Walter, Willy. 3,060,711.
Monge, Frank E.: *See*—
Fino, John B., and Monge. 3,062,556.
Mongelli, Anthony L. Necktie ornament. 3,060,448, 10–30–62, Cl. 2—150.
Monick, John A., to Colgate-Palmolive Co. Drying process for detergents. 3,055,835, 9–25–62, Cl. 252—138.
Monigle, Charles W.: *See*—
Packard, George B., and Monigle. 3,042,314.
Monin, Claude: *See*—
Alizon, Etienne, and Monin. 3,041,528.
Burstow, Pierre, and Monin. 3,048,821.
Burstow, Pierre, and Monin. 3,065,306.
Monin, James B. Windshield sleet and snow protector devices. 3,033,281, 5–8–62, Cl. 160—19.
Monitor Controller, Division of Industrial Electronics Co., Inc.: *See*—
Pukk, Erik, and Quinn. 3,022,403.
Monk, Clarence B., Jr.: *See*—
Woguis, John P., Kerruish, and Monk. 3,058,190.
Monnier, Denis, to "Fo-We" Forschungs-und Verwertungs-Anstalt. Soluble heparin product and process for preparing same. 3,066,076, 11–27–62, Cl. 167—74.
Monogram Precision Industries, Inc.: *See*—
Jones, Sterling B. 3,044,512.
Monohan, Franklin L. Method and apparatus for controlling the processing of a conveyed object. 3,070,205, 12–25–62, Cl. 198—19.
Monot, Pierre L. V. Hydrogenated tallow-perhydrosqualene dermatological excipient. 3,069,324, 12–18–62, Cl. 167—90.
Monroe Auto Equipment Co.: *See*—
Kivell, William J. 3,047,283.
Read, Charles E. 3,038,545.
Smith, Charles J., Read, and Wehring. 3,016,049.
Monroe, Benjamin F. Retractable belt. 3,020,089, 2–6–62, Cl. 297—388.
Monroe, Benjamin F. Aircraft seat structure. 3,037,812, 6–5–62, Cl. 297—355.
Monroe Calculating Machine Co.: *See*—
Bieber, Charles E. 3,022,958.
Deutsch, Fritz J. 3,018,953.
De Vries, Pieter, and Fluitman. 3,065,906.
Dodsworth, James W. 3,015,437.
Dodsworth, James W. 3,021,054.
Dodsworth, James W. 3,021,056.
Dodsworth, James W. 3,022,940.
Drillick, Jacob H. 3,051,381.
Durgin, Douglas C., and Dodsworth. 3,051,385.
Fleming, Howard M., Jr., Gardoff, La Manna, and Weinberg. 3,039,691.
Gang, Herman. 3,015,436.
Gang, Herman. 3,015,439.
Gang, Herman. 3,044,697.
Gang, Herman. 3,065,908.
La Manna, Richard J. 3,018,047.
Parker, Charles A. 3,018,039.
Parker, Charles A. 3,038,581.
Parker, Charles A. 3,065,904.
Sparks, Thomas. 3,018,949.
Stern, Menahem. 3,042,179.
Wagemann, Heinrich W. 3,024,988.
Wagemann, Heinrich W. 3,051,082.
Wagemann, Heinrich W. 3,057,549.
Wales, Nathaniel B., Jr. 3,018,040.
Wales, Nathaniel B., Jr. 3,024,976.
Monroe, Charles Z., H. B. Egleston, and K. R. Thibo, to Ex-Cell-O Corp. Machine for packing gable topped milk containers in cases. 3,031,811, 5–1–62, Cl. 53—74.
Monroe, Charles Z., and H. B. Egleston, to The Ex-Cell-O Corp. Rotary stapler and sealer mechanism for carton machine. 3,060,443, 10–30–62, Cl. 1—105.
Monroe, Ernest M., and J. Smith, to Victor Metal Products Corp. Automatic tube capping machine. 3,069,827, 12–25–62, Cl. 53—317.
Monroe Fabricators, Inc.: *See*—
Pinkwater, Joseph M. 3,068,494.
Monroe, Freeman. Foldable pier. 3,046,748, 7–31–62, Cl. 61—18.
Monroe, George C., Jr., to E. I. du Pont de Nemours and Co. Solid phase polymerization of polyamides. 3,031,433, 4–24–62, Cl. 260—78.
Monroe, Jack C.: *See*—
Evans, David C., Magnuson, Monroe, and Prothers. 3,025,124.
Monroe, Kenneth P., to Magnet Cove Barium Corp. Well drilling fluid. 3,034,982, 5–15–62, Cl. 252—8.5.
Monroe, Kenneth P., to Magnet Cove Barium Corp. Well drilling fluids containing lignite derivatives. 3,039,958, 6–19–62, Cl. 252—8.5.
Monroe, Meade, to NEA Service, Inc. Newspaper delivery tube. 3,047,213, 7–31–62, Cl. 232—17.
Monroe, Roger F., F. J. Lowes, G. L. Foster, and B. D. Oakes, to The Dow Chemical Co. Propargyl compounds as corrosion inhibitors. 3,049,496, 8–14–62, Cl. 252—146.
Monsanto Canada Ltd.: *See*—
Coleman, Denis. 3,026,302.
Garmaise, David L., and McKay. 3,026,343.
Waid, Ted H., and Coleman. 3,021,375.
Monsanto Chemical Co.: *See*—
Abramo, John G. 3,041,319.
Abramo, John G. 3,055,947.
Abramo, John G. 3,063,976.
Abramo, John G., and Chapin. 3,038,890.
Abramo, John G., and Chapin. 3,063,975.
Abramo, John G., and Chapin. 3,065,198.
Abramo, John G., and Chapin. 3,069,399.
Abramo, John G., Chapin, and Garner. 3,065,210.
Abramo, John G., Garner, and Chapin. 3,051,740.
Alexander, Stephen H. 3,070,453.
Alexander, Stephen H. 3,070,459.
Alexander, Stephen H., and Tarver. 3,070,523.
Alexander, Stephen H., and Tarver. 3,070,524.
Arganbright, Robert P. 3,028,440.
Arganbright, Robert P. 3,050,568.
Aykanian, Ardashus A. 3,062,698.
Baer, Massimo. 3,041,306.
Baer, Massimo. 3,041,307.
Baer, Massimo. 3,041,308.
Baer, Massimo. 3,041,309.
Baer, Massimo, and Vignale. 3,055,860.
Baer, Russel E. 3,067,267.
Baker, Joseph W. 3,067,232.
Baker, Joseph W., and Chupp. 3,030,265.
Baker, Joseph W., Chupp, and Newallis. 3,030,264.
Baker, Joseph W., Chupp, and Newallis. 3,052,596.
Baker, Joseph W., Chupp, and Newallis. 3,057,774.
Baltzer, Donald H. 3,051,596.
Beaulieu, Raymond D., Nemphos, and Popielski. 3,069,367.
Beaver, David J., and Stoffel. 3,029,273.
Beaver, David J., and Stoffel. 3,035,093.
Beaver, David J., and Stoffel. 3,061,640.
Beaver, David J., Stoffel, and Hamm. 3,066,021.
Beindorff, Arthur B., and De Witt. 3,039,983.
Beindorff, Arthur B., and De Witt. 3,039,984.
Beindorff, Arthur B., and De Witt. 3,039,985.
Beindorff, Arthur B., and De Witt. 3,042,645.
Beindorff, Arthur B., and De Witt. 3,042,646.
Beindorff, Arthur B., and De Witt. 3,063,956.
Birum, Gail H. 3,020,306.
Birum, Gail H. 3,042,698–702.
Birum, Gail H. 3,046,296.
Birum, Gail H. 3,049,545.
Birum, Gail H. 3,058,876.
Birum, Gail H. 3,058,941.
Birum, Gail H., and Dever. 3,018,303.
Birum, Gail H., and Dever. 3,029,271.
Birum, Gail H., and Dever. 3,031,489.
Birum, Gail H., and Dever. 3,053,877.
Birum, Gail H., and Dever. 3,064,032.
Black, William B. 3,042,647.
Black, William B. 3,060,141.
Boyd, Thomas. 3,041,312.
Bray, John R. 3,042,781.
Bray, John R. 3,042,782.
Bromley, James E., and Hills. 3,041,706.
Brown, Earl L. 3,032,506.
Brown, Gordon E., Cox, and Kennar. 3,058,954.
Buckley, Francis T., Seldin, and Wojcik. 3,069,301.
Butler, John M., Hedrick, and Mottus. 3,017,392.
Butler, John M., Hedrick, and Mottus. 3,018,273.
Butler, John M., Hedrick, and Mottus. 3,028,369.
Butler, John M., Miller, and Wesp. 3,068,200.
Butler, John M., Miller, and Wesp. 3,068,208.
Calfee, John D. 3,025,267.
Calfee, John D. 3,025,269.
Calfee, John D. 3,057,837.

Monsanto Chemical Co.: *See*—Continued
Calfee, John D. 3,057,842.
Calfee, John D., and Erbaugh. 3,022,278.
Calfee, John D., Richard, and Erbaugh. 3,061,603.
Cameron, Margaret D. 3,018,175.
Cameron, Margaret D. 3,022,319.
Campbell, John R., and Hatton. 3,020,315.
Carlson, Frank A., Jr., Hatch, and Whittier. 3,070,475.
Garner, Albert Y., Abramo, and Chapin. 3,065,272.
Carney, Robert J., and Hahn. 3,069,368.
Carney, Robert J., and Hahn. 3,069,371.
Cave, William T. 3,038,937.
Chadwick, David H., Campbell, and Metzger. 3,064,030.
Chapin, Earl C. 3,036,029.
Chapin, Earl C., and Abramo. 3,041,320.
Chidgey, Ronald W., Jr., and Irwin. 3,039,708.
Chidgey, Ronald W., Jr., and Irwin. 3,061,215.
Chupp, John P. 3,020,305.
Chupp, John P. 3,028,302.
Chupp, John P. 3,028,303.
Chupp, John P. 3,036,952.
Chupp, John P. 3,037,904.
Chupp, John P. 3,048,517.
Chupp, John P. 3,051,613.
Chupp, John P., and Newallis. 3,041,365.
Clark, Howard G., and Black. 3,069,392.
Clifford, Alan F. 3,016,285.
Clifford, Alan F., and Terry. 3,059,994.
Coggeshall, Alva C. 3,042,481.
Coran, Aubert Y. 3,060,149.
Cornell, David. 3,018,228.
Cowell, Elmert E., and Darby. 3,042,644.
Culbertson, Harry, and Williams. 3,056,753.
D'Amico, John J. 3,036,050.
D'Amico, John J. 3,036,051.
D'Amico, John J. 3,040,053.
D'Amico, John J. 3,048,597.
D'Amico, John J. 3,051,716.
D'Amico, John J. 3,051,717.
D'Amico, John J. 3,051,735.
D'Amico, John J. 3,055,908.
D'Amico, John J. 3,056,822.
D'Amico, John J. 3,057,933.
D'Amico, John J., and Weber. 3,032,406.
Darlington, Walter A. 3,034,954.
Dazzi, Joachim. 3,048,538.
Dazzi, Joachim. 3,053,780.
Deex, Oliver D., and Calfee. 3,025,268.
Deming, John M. 3,016,713.
Dever, James L., and Birum. 3,059,017.
De Witt, Hobson D. 3,053,789.
De Witt, Hobson D., and Beindorff. 3,039,982.
Dinsmore, David W., and Smith. 3,060,166.
Ezrin, Myer, Isaksen, Newman, and Buchdahl. 3,052,924.
Feerick, Aubrey A., and Glass. 3,041,386.
Fields, Joseph E., and Johnson. 3,022,261.
Fike, Elmer A., and Seaton. 3,055,950.
Finch, Lionel N. 3,026,232.
Follett, Archie E. 3,042,659.
Follett, Archie E. 3,060,153.
Frantz, Joseph F. 3,049,567.
Frantz, Joseph F., and Glass. 3,032,592.
Franz, Raymond A., and Spillane. 3,057,704.
Franz, Raymond A., and Spillane. 3,057,705.
Freedman, Bernard, and Mestdagh. 3,050,797.
Gaertner, Van R. 3,048,550.
Gaertner, Van R. 3,048,577.
Gaertner, Van R. 3,053,830.
Gaertner, Van R., and Schisla. 3,025,215.
Galbraith, Albert D., and Popielski. 3,069,369.
Gause, Edward H. 3,049,408.
Geunnell, Robert J., and Nelson. 3,028,216.
Ginn, Martin E. 3,060,124.
Gluesenkamp, Earl W. 3,026,290.
Godfrey, Kenneth L., and D'Amico. 3,015,551.
Graham, Paul R. 3,050,488.
Grisley, Daniel W., Jr. 3,053,891.
Groenweghe, Leo C. D. 3,024,278.
Groves, Warren O. 3,063,801.
Hahn, John H., and Quinn. 3,042,719.
Ham, George E. 3,053,811.
Hamm, Philip C., and Saul. 3,020,141.
Harman, Carl A. 3,047,527.
Harman, Marion W. 3,058,990.
Harman, Marion W., and D'Amico. 3,057,710.
Harris, Jay C. 3,037,937.
Harwood, Haro.d J., and Pollart. 3,053,900.
Hedrick, Ross M. 3,053,814.
Heininger, Samuel A., and Birum. 3,018,304.
Heininger, Samuel A., and Birum. 3,022,344.
Heininger, Samuel A., and Birum. 3,044,927.
Heininger, Samuel A., and Birum. 3,050,545.
Heininger, Samuel A., and Birum. 3,063,894.
Heininger, Samuel A., and Birum. 3,064,036.
Heininger, Samuel A., and Birum. 3,065,127.
Henderson, Courtland M. 3,061,756.
Hirshfeld, Julian J., and Burnthall. 3,047,425.
Hoel, Dean C., and Steably. 3,069,383.
Hohenberg, Paul M., James, and Wechsberg. 3,017,371.
Hoiberg, Arnold J. 3,028,249.
Holmes, Richard R., and Anderson. 3,047,455.
Howard, Walter B. 3,062,906.
Monsanto Chemical Co.: *See*—Continued
Hughey, George B. 3,067,461.
Huffman, William A. H. 3,039,990.
Jackson, Robert C. 3,067,565.
Jenkins, Lloyd T. 3,068,212.
Jenkins, Russell L. 3,018,186.
Johnson, John H., and Fields. 3,068,061.
Johnson, William K. 3,036,103.
Johnson, William K., and Wygant. 3,057,900.
Johnson, William R. 3,070,601.
Johnson, William R., and Oakes. 3,070,544.
Kaplan, Yale, and Jaquiery. 3,059,548.
Kelly, Pennell C., and Hardwicke. 3,018,195.
Kern, Roland J. 3,031,432.
Kern, Roland J., and Kenyon. 3,046,245.
Kern, Roland J., and Kenyon. 3,061,570.
Kichline, Thomas P., and Vetter. 3,052,549.
Kosmin, Milton. 3,031,514.
Kosmin, Milton. 3,058,300.
Krebaum, Lawrence J. 3,055,738.
Kulifay, Stanley M. 3,023,079.
Kulifay, Stanley M. 3,023,080.
Kulifay, Stanley M. 3,023,081.
Kulifay, Stanley M. 3,026,175.
Kulifay, Stanley M. 3,058,802.
Lamb, Douglas J., and Hills. 3,042,326.
Lambuth, Alan L. 3,025,259.
Langguth, Robert P., and Seifter. 3,024,100.
Latinen, George A., and Simon. 3,067,812.
Lea, Kenneth R., and Veazey. 3,060,159.
Lindstrom, Mary D., Fantl, Cohen, and Heaps. 3,058,938.
Ludvik, George F., and D'Amico. 3,061,624.
Lynch, Eric R., and Mc Cain. 3,035,099.
Makin, Earle C., Jr. 3,033,763.
Makin, Earle C., Jr. 3,034,969.
Marshall, Mervin D., and Harwood. 3,031,509.
Martin, Richard H., Jr. 3,025,272.
Martin, Richard H., Jr. 3,025,280.
Martin, Richard H., Jr. 3,043,814.
Martin, Richard H., Jr. 3,043,816.
Martin, Richard H., Jr. 3,047,549.
Martin, Richard H., Jr. 3,047,550.
Martinson, Carl R. 3,024,099.
McFarlin, Richard F., and Stites. 3,030,179.
McGlaughlin, Thomas W. 3,040,156.
McManimie, Robert J., Hurst, and Mottus. 3,065,220.
Metzger, Sidney H., Jr. 3,067,231.
Miller, Lee A. 3,022,285.
Miller, Lee A. 3,022,288.
Miller, Lee A. 3,022,293.
Miller, Lee A. 3,040,086.
Miller, Lee A. 3,053,882.
Miller, Lee A. 3,065,129.
Miller, Lee A. 3,068,143.
Miller, Lee A. 3,068,209.
Miller, Lee A. 3,068,276.
Miller, Lee A. 3,070,431.
Miller, Lee A., and Birum. 3,059,014.
Miller, Robert E. 3,053,888.
Miller, Robert E. 3,053,889.
Mills, Robert H. 3,067,239.
Montague, Joseph L. 3,046,092.
Montgomery, Stewart R. 3,049,559.
Morgan, Herbert S., Jr. 3,068,062.
Mottus, Edward H., Hedrick, and Butler. 3,017,391.
Nelson, Edward A. 3,041,303.
Newallis, Peter E., Baker, and Chupp. 3,061,613.
Newallis, Peter E., Baker, and Chupp. 3,065,125.
Newallis, Peter E., Baker, and Chupp. 3,065,126.
Newallis, Peter E., Baker, and Chupp. 3,070,488.
Newallis, Peter E., Baker, and Chupp. 3,070,489.
Newallis, Peter E., and Chupp. 3,058,878.
Newman, Seymour, and Ezrin. 3,069,406.
Nickerson, Ralph F. 3,024,145.
Nielsen, Morris L. 3,018,165.
Nielsen, Morris L. 3,018,167.
Nielsen, Morris L. 3,039,855.
Nielsen, Morris L. 3,039,844.
Nielsen, Morris L., and Duncan. 3,027,228.
Nirenberg, Robert P., and Rusk. 3,067,608.
Nolan, John H. 3,023,095.
Ogden, Franklin F. 3,046,136.
Ogden, Franklin F. 3,046,137.
Olin, John F. 3,041,354.
Ort, Morris R., and Yanko. 3,063,927.
Ott, John B. 3,051,682.
Paris, William W., and Staker. 3,068,082.
Patrick, Tracy M., Jr., and Johnston. 3,060,224.
Patton, Tad L. 3,030,382.
Perry, Eli. 3,070,585.
Perry, Randolph, Jr., and Shaver. 3,065,058.
Power, Wilson H. 3,051,657.
Power, Wilson H. 3,051,658.
Prill, Erhard J. 3,058,996.
Prill, Erhard J. 3,059,021.
Rausch, Marvin D. 3,064,026.
Reetz, Theodor, Busch, and Chadwick. 3,057,904.
Reinhard, Raymond H. 3,060,155.
Ringwald, Eugene L. 3,060,152.
Robinson, Warn D. 3,055,842.
Rolingson, William R. 3,036,883.
Roman, Daniel P., and Taulli. 3,046,234.

Monsanto Chemical Co.: *See*—Continued
Ruehrwein, Robert A. 3,069,604.
Saul, George A., and Baker. 3,070,490.
Schisla, Robert M., and Gaertner. 3,031,373.
Sharp, Dexter B., and Birum. 3,027,395.
Shaver, Kenneth J. 3,048,471.
Singleton, Thomas C. 3,055,877.
Slocombe, Robert J., and Fields. 3,040,006.
Slocombe, Robert J., and Wesp. 3,051,685.
Speziale, Angelo J. 3,066,140.
Staker, Donald D. 3,045,042.
Stone, Bobbie D. 3,040,098.
Stone, Bobbie D. 3,053,816.
Symes, William F. 3,035,056.
Symes, William F., and Hadzekyriakides. 3,035,054.
Symes, William F., and Hadzekyriakides. 3,035,057.
Symes, William F., and Loveless. 3,061,423.
Szlatinay, Leslie. 3,030,373.
Szlatinay, Leslie. 3,031,073.
Tashlick, Irving. 3,069,471.
Tate, Clifton W. 3,047,621.
Thomas, John L. 3,059,825.
Ucci, Pompeilo A., and Anderson. 3,047,456.
Veitch, John D. 3,061,398.
Walker, Harry M. 3,032,498.
Weeks, Lloyd E., and McManimie. 3,060,132.
Weingarten, Harold I. 3,038,107.
Weingarten, Harold I. 3,068,297.
White, William A., and Ruehrwein. 3,029,296.
Wilder, Gene R. 3,061,585.
Wilder, Gene R. 3,067,254.
Wildi, Bernard S. 3,022,312.
Wildi, Bernard S. 3,046,322.
Wildi, Bernard S. 3,046,323.
Wildi, Bernard S., and Eaton. 3,060,253.
Williams, Forrest V. 3,039,854.
Williams, Forrest V. 3,047,366.
Williams, Forrest V. 3,053,637.
Williams, Forrest V. 3,056,660.
Williams, Forrest V., Ruehrwein, and Hill. 3,022,452.
Williams, Forrest V., Ruehrwein, and Hill. 3,054,936.
Wofford, Gene L. 3,060,245.
Wygant, James C. 3,035,091.
Yanko, William H., and Calfee. 3,058,899.
Zeiss, Harold H. 3,057,839.
Zeiss, Harold H., and Herwig. 3,033,878.
Monsanto Chemicals Ltd.: *See*—
Brown, Joseph P., and McCall. 3,045,046.
Preston, Iris W., and Payne. 3,016,304.
Seiler, David A. L., and Brown. 3,046,190.
Volans, Peter. 3,054,784.
Wilde, Bertrand E. 3,043,847.
Monsanto Research Corp.: *See*—
Ball, George L., III, and Wilson. 3,068,434.
Johns, Iral B. and Di Pietro. 3,057,895.
Monsavon-l'Oreal, Societe Anonyme dite, Societe: *See*—
Chantelle, Roger, and Pomot. 3,055,834.
Monsees, Claude E., and J. C. Petrea, to Sperry Rand Corp. Weighing apparatus. 3,023,823, 3–6–62, Cl. 177—207.
Monsma, Shirley M. Footwear holding means. 3,041,743, 7–3–62, Cl. 36—1.
Monson, Abraham O. Grounding coupling. 3,027,533, 3–27–62, Cl. 339—14.
Monson, Oscar P., to Federal-Huber Co. Fluid mixing valve. 3,023,784, 3–6–62. Cl. 137—625.17
Mont, Seymour. Automobile traction device. 3,055,411, 9–25–62, Cl. 152—216.
Montag, Inc.: *See*—
Greenblatt, Sidney R., and Guthman. 3,018,780.
Montagna, Amelio E.: *See*—
Goldsmith, William F., Lemon, and Montagna. 3,041,371.
Montagna, Amelio E., and D. H. Hirsh, to Union Carbide Corp. Preparation of 1-alkenyl, alkenyl ethers. 3,021,373, 2–13–62. Cl. 260—614.
Montagna, Amelio E., and D. H. Hirsh, to Union Carbide Corp. Preparation of unsaturated ethers. 3,023,250, 2–27–62, Cl. 260—614.
Montagna, Amelio E., J. J. Brezinski, and D. G. Kubler, to Union Carbide Corp. Tetrahydropyran carboxylic acids and esters, and processes for the production thereof. 3,032,558, 5–1–62, Cl. 260—345.7.
Montagna, Amelio E., and L. G. Hess, to Union Carbide Corp. Process for the preparation of 1-chloro-2-butene. 3,055,954, 9–25–62, Cl. 260—654.
Montagnon, Jean: *See*—
Fouilland, Claude, and Montagnon. 3,019,185.
Montague, Harry. Automatic crankcase drain attachment. 3,049,334, 8–14–62, Cl. 251—216.
Montague, Joseph L., to Monsanto Chemical Co. Tripolyphosphate process improvement. 3,046,092, 7–24–62, Cl. 23—106.
Montalbano, Michael S.: *See*—
Poole, Wade H., and Montalbano. 3,040,296.
Montalto, Francis J.: *See*—
Ross, Valentine A., and Montalto. 3,037,311.
Montalto, Ignatius M. Removable collar display attachments for the necks of bottles, and the like. 3,037,310, 6–5–62, Cl. 40—21.
Montandraud, Jean, to Societe d'Applications Chimiques d'Etudes et de Recherches. Method of treating hemorrhoids. 3,062,716, 11–6–62, Cl. 167—58.
Montanus, Richard C., to The Springfield Machine Tool Co. Powered tailstock. 3,053,127, 9–11–62, Cl. 82—31.
Montavon, Marc: *See*—
Guex, Waldemar, and Montavon. 3,057,913.
Isler, Otto, Montavon, Rüegg, and Zeller. 3,015,680.
Kimel, Walter, and Montavon. 3,021,359.
Montecatini Generale per l'Industria Mineraria e Chimica, Societa: *See*—
Beghelli, Benito. 3,025,689.
Bianchi, Valerio, and Pescarolo. 3,052,519.
Bonvicini, Alberto. 3,037,949.
Bonvicini, Alberto, and Caldo. 3,037,835.
Bonvicini, Alberto, and Lucchetti. 3,043,787.
Bosoni, Achille. 3,025,572.
Cappuccio, Vittorio, Monaci, and Bonvicini. 3,022,191.
Cernia, Enrico, and Bonvicini. 3,036,026.
Chiusoli, Gian P., and Minisci. 3,024,276.
Chiusoli, Gian P., Minisci, and Quilico. 3,062,851.
Chiusoli, Gian P. 3,025,320.
Chiusoli, Gian P., and Merzoni. 3,032,583.
Cubeddu, Tommaso. 3,026,180.
De Pava, Alberto V. 3,063,930.
De Pava, Alberto V. 3,067,124.
Endler, Harry H. A. 3,043,854.
Fior, Aldo. 3,015,150.
Greco, Guido. 3,052,288.
Greco, Guido, Luciani, and Soldano. 3,067,177.
Hugel, Robert, and Pasetti. 3,022,346.
Lazari, Fabrizio, and Sormani. 3,031,912.
Lecis, Piero, and Guidi. 3,057,683.
Longiave, Carlo, and Castelli. 3,061,600.
Longiave, Carlo, Castelli, and Croce. 3,032,544.
Losco, Giuseppe, and Perl. 3,024,162.
Losco, Giuseppe, and Perl. 3,032,579.
Losco, Giuseppe, Rossi, and Michieli. 3,033,744.
Magnaguagno, Cleante A. 3,032,452.
Malatesta, Alberto. 3,045,035.
Maragliano, Domenico, and Denti. 3,019,507.
Marullo, Gerlando, Agamennone, and Corsi. 3,052,724.
Marullo, Gerlando, and Fornasieri. 3,030,193.
Marullo, Gerlando, Lazzari, and Alessandrini. 3,069,233.
Marullo, Gerlando, and Perri. 3,049,233.
Marullo, Gerlando, Perri, and Tubiello. 3,059,773.
Mattioli, Ennio. 3,039,733.
Minisci, Francesco. 3,026,334.
Monaco, Ugo. 3,050,109.
Musso, Pompilio, and Guzzetta. 3,069,041.
Natta, Giulio, Beati, and Severini. 3,020,174.
Natta, Giulio, Bruzzone, and Borsini. 3,050,503.
Natta, Giulio, Porri, and Fiore. 3,016,371.
Perfetti, Pietro, and Guidi. 3,041,251.
Perini, Mario, and Speroni. 3,047,459.
Pescarolo, Bruno, and Bianchi. 3,069,230.
Ranalli, Franco. 3,021,567.
Ranalli, Franco. 3,036,987.
Ranucci, Saverio, and Gatti. 3,067,266.
Teja, Jayanti D. 3,069,277.
Tonelli, Pietro de P., Losco, Rossi, and Santi. 3,026,243.
Zanaboni, Piero. 3,052,591.
Monteith, Victor St. C., and C. G. Wyman, to The Dayton Tire & Rubber Co. Tire apparatus. 3,018,511, 1–30–62, Cl. 18—2.
Monteleone, Mike T. Method of packaging ham. 3,067,041, 12–4–62. Cl. 99—187.
Montelius, Carl O. T., to De Laval Steam Turbine Co. Screw pump. 3,016,842, 1–16–62, Cl. 103—128.
Montelius, Carl O. T., to De Laval Steam Turbine Co. Screw pumps. 3,063,379, 11–13–62, Cl. 103—128.
Montemurro, Joseph, to General Telephone and Electronics Laboratories, Inc. Transducer. 3,038,081, 6–5–62, Cl. 250—213.
Montemuso, Juan C., L. P. Marinelli, and T. M. Andrews, to United States of America, Army. Organotin acrylic polymers. 3,016,369, 1–9–62, Cl. 260—80.
Montgomery, Alexander: *See*—
Hemstreet, Harold S., and Montgomery. 3,067,725.
Montgomery, Arvid N., to Montgomery Mfg. Co., Inc. Timed spray dispenser. 3,018,056, 1–23–62, Cl. 239—70.
Montgomery, Byron D., to Borg-Warner Corp. Vehicle retarder. 3,024,876, 3–13–62, Cl. 188—90.
Montgomery, Charles D., to United States of America, Army. Drive sprocket construction. 3,057,219, 10–9–62, Cl. 74—243.
Montgomery, Charles W.: *See*—
Burton, Elwin E. 3,025,906.
Gray, Basil P., and Montgomery. 3,058,943.
Hay, Russell G., and Montgomery. 3,044,963.
Montgomery and Crawford Co., Inc.: *See*—
Peckman, William W., and L. A. 3,033,349.
Montgomery, Donald W., to The Babcock & Wilcox Co. Device for the storage of a heat evolving material. 3,046,403, 7–24–62, Cl. 250—106.
Montgomery, Douglas H. Tool for trimming grass around sprinkler heads. 3,064,353, 11–20–62, Cl. 30—300.
Montgomery, Edna M., and K. R. Sexson, to United States of America, Agriculture. Recovery of amylose from high amylose cornstarch. 3,046,161, 7–24–62, Cl. 127—71.
Montgomery, Edward R. P.: *See*—
Corey, William G. 3,054,421.
Montgomery Elevator Co.: *See*—
Beck, Walter, and Hallene. 3,033,317.
Hallene, Alan M., and Martin. 3,033,306.
Hallene, Alan M., and Martin. 3,043,401.

Montgomery, George F. Combined frequency-phase modulation telegraph system. 3,032,611, 5–1–62, Cl. 178—66.
Montgomery, H. A., Co., The: *See*—
Pucinari, Angelo M., and King. 3,023,163.
Montgomery, Harold C., to Bell Telephone Laboratories, Inc. Torpedo control circuit. 3,064,610, 11–20–62, Cl. 114—23.
Montgomery, Harold S.: *See*—
Brand, William D., Byrnes, and Montgomery. 3,055,479.
Brand, William D., and Montgomery. 3,034,634.
Montgomery, Henry M. Truck driver's daily log book holder. 3,051,539, 8–28–62, Cl. 312—231.
Montgomery, John C., to Inland Steel Co. Apparatus for decomposing solid ammonium sulfate. 3,047,369, 7–31–62, Cl. 23—252.
Montgomery, John R.: *See*—
Roberts, Frederick W., and Montgomery. 3,064,917.
Roberts, Frederick W., Montgomery, and Schueler. 3,024,319.
Roberts, Frederick W., Montgomery, and Tiffany. 3,052,762.
Montgomery Mfg. Co., Inc.: *See*—
Montgomery, Arvia N. 3,018,056.
Montgomery, Murray M., to Pacific Coast Engineering Co. Cargo container handling equipment. 3,061,110, 10–30–62, Cl. 212—14.
Montgomery, Oscar R., to J. B. Coyne. Swabbing device. 3,030,914, 4–24–62, Cl. 118—106.
Montgomery, Robert L., to United Aircraft Corp. Pump stage connection. 3,046,901, 7–31–62, Cl. 103—88.
Montgomery, Robert N.: *See*—
Cayton, Van C., Montgomery, and Perret. 3,061,652.
Montgomery, Robert S.: *See*—
Mills, Jack F., McAnallen, and Montgomery. 3,053,763.
Montgomery, Robert S., and H. M. Tobey, to The Dow Chemical Co. Retardation of set time of aqueous gypsum compositions. 3,054,687, 9–18–62, Cl. 106—111.
Montgomery, Robert S., and J. L. Lang, to The Dow Chemical Co. Thermosetting compositions comprising coal acids, phenol aldehyde resin, plasticizer and polyamine and method of preparing shell molds therefrom. 3,061,900, 11–6–62, Cl. 22—193.
Montgomery, Stewart R., to Monsanto Chemical Co. Ureas. 3,049,559, 8–14–62, Cl. 260—448.2.
Montgomery, Van H., to Bernardin Bottle Cap Co., Inc. Threaded metal closure cap for a container. 3,022,917, 2–27–62, Cl. 215—44.
Montgomery Ward & Co., Inc.: *See*—
Robins, Claude L. 3,029,532.
Montgomery, William T.: *See*—
Taylor, James, Johnstone, and Montgomery. 3,023,462.
Montgomery, William T. S., to Jacksonville Blow Pipe Co. Incinerator. 3,022,753, 2–27–62, Cl. 110—7.
Monti, Anthony, and N. R. Pike, to American Molasses Co. Modified galactomannan gums and method of preparing same. 3,042,668, 7–3–62, Cl. 260—209.
Monticelli, Mario A.: *See*—
Squillace, Joseph W., Alleva, and Monticelli. 3,026,614.
Monticello, William A., and T. N. Yesowich, to Burroughs Corp. Recording apparatus. 3,018,721, 1–30–62, Cl. 101—93.
Montignot, Francois H., to Compagnie de Pont-A-Mousson. Sheet-bending method and machine for the production of tubular elements. 3,019,834, 2–6–62, Cl. 153—65.
Montijo, Ralph E.: *See*—
Birmingham, Donald J., Montijo, and Reid. 3,056,950.
Montillon, George H.: *See*—
Cable, Robert E., Goode, Henderson, and Montillon. 3,041,266.
Montor, Karel, 20% to A. C. Nolte, Jr. Multi-station intercommunication system. 3,024,310, 3–6–62, Cl. 179—1.
Montoya, Hernando J., and G. W. Underwood, to Armco Steel Corp. Locking combination for nestable culvert. 3,043,344, 7–10–62, Cl. 138—158.
Montpeat, Ramón. Apparatus for producing many-coloured artificial flowers of thermoplastic material. 3,061,879, 11–6–62, Cl. 18—30.
Montrose, Arthur. Bathing cap. 3,026,526, 3–27–62, Cl. 2—68.
Montross, Eugene V., to International Business Machines Corp. Time sequencer. 3,054,932, 9–18–62, Cl. 317—25.
Montross, Eugene V., D. E. Clancy, and P. L. Brobst, to The National Cash Register Co. Record card feeding devices. 3,040,860, 6–26–62, Cl. 197—127.
Montross, Robert C., to Square D Co. Electronic circuit. 3,024,398, 3–6–62, Cl. 318—227.
Montz, Julius: *See*—
Montz, Otto, and Kloss. 3,015,340.
Montz, Otto, and H. J. Kloss, to J. Montz. Apparatus for processing a liquid. 3,015,340, 1–2–62, Cl. 137—124.
Moodie, William C., Sr., and J. H. Lepperhoff, to Calculagraph Co. Calculating device. 3,030,013, 4–17–62, Cl. 235—61.3.
Moody, Dale M.: *See*—
Green, William G., and Moody. 3,064,127.
Moody, Eugene L. Diversion T. 3,068,904, 12–18–62, Cl. 138—37.
Moody, Frank B., to E. I. du Pont de Nemours and Co. Polymerization of 2,5-dimethyl-2,4-hexadiene. 3,019,213, 1–30–62, Cl. 260—94.2.
Moody, George W., to Universal Air Lift, Inc. Inflatable auxiliary load support units. 3,063,704, 11–13–62, Cl. 267—65.
Moody, Harvey H. Two-way positive cable drive mechanism. 3,025,647, 3–20–62, Cl. 51—240.
Moody, John L., to Friden, Inc. Calculating machine. 3,036,768, 5–29–62, Cl. 235—137.
Moody, Richard G., ½ to R. E. Breidenthal. Apparatus for connecting a plurality of conductors. 3,030,604, 4–17–62, Cl. 339—98.
Moody, Robert J., to Scott & Williams, Inc. Clamping and cutting means for circular knitting machines. 3,066,512, 12–4–62, Cl. 66—145.
Moody, Robert W.: *See*—
Gurton, Owen A., and Moody. 3,041,914.
Moody, Thomas L. Auto camper. 3,019,803, 2–6–62, Cl. 135—4.
Moog Industries, Inc.: *See*—
Scheublein, William A., Jr., and Dumpis. 3,019,041.
Moog Servocontrols, Inc.: *See*—
Chaves, Aurelius, Jr., and Hall. 3,023,782.
Chaves, Aurelius, Jr., and Moog. 3,065,735.
Moog, William C., Jr.,: *See*—
Chaves, Aurelius, Jr., and Moog. 3,065,735.
Mooi, John: *See*—
Burk, Emmett H., Jr., and Mooi. 3,047,514.
Keith, Carl D., Burk, and Mooi. 3,026,268.
Mook, Donald E., A. W. Williams, R. V. Close, and C. L. Hankinson, to The Borden Co. Production of instant coffee. 3,035,922, 5–22–62, Cl. 99—71.
Moon, Charles G.: *See*—
Lichtenfels, Ira W., and Moon. 3,068,390.
Moon, Herbert J., to Lakeside Mfg., Inc. Morgue cart and body refrigerating devices. 3,034,843, 5–15–62, Cl. 312—220.
Moon, James: *See*—
Bender, Emil A., and Moon. 3,059,781.
Moon, Robert R. Boat structure. 3,050,751, 8–28–62, Cl. 9—310.
Mooney, Charles F.: *See*—
Firestine, Arthur G., Mooney, and Zak. 3,030,746.
Mooney, Charles F., to Bausch & Lomb Inc. Method of making aspheric optical elements. 3,064,401, 11–20–62, Cl. 51—284.
Mooney, David H., Jr.: *See*—
Skillman, William A., Evanus, and Mooney. 3,018,487.
Smith, Harry B., Mooney, and Ewanus. 3,023,409.
Mooney, Edmund J. Safety valve. 3,056,575, 10–2–62, Cl. 251—172.
Mooney, James J., Jr.: *See*—
Tuck, Robert M., and Mooney. 3,021,676.
Mooney, Paul C., to Quick-Set, Inc. Camera supporting attachment for a tripod. 3,015,468, 1–2–62, Cl. 248—230.
Mooney, Richard W., to Sylvania Electric Products Inc. Tin-activated calcium silicate phosphor. 3,063,946, 11–13–62, Cl. 252—301.4.
Mooney, Richard W., and F. N. Shaffer, to Sylvania Electric Products Inc. Barium silicate phosphor. 3,043,781, 7–10–62, Cl. 252—301.4.
Mooney, Truman P. Service car. 3,016,156, 1–9–62, Cl. 214—152.
Moore, Alexander P., to Parker-Hannifin Corp. Level control valve. 3,055,386, 9–25–62, Cl. 137—403.
Moore, Allan N. Ways and means for adjusting work tools. 3,021,604, 2–20–62, Cl. 33—185.
Moore, Archie C. Multi-use bow sight. 3,056,206, 10–2–62, Cl. 33—44.
Moore, Armistead M., to Jersey Production Research Co. Selective mixing of seismic signals. 3,065,454, 11–20–62, Cl. 340—15.5.
Moore, Arnold S.: *See*—
Mauch, Hans A., and Moore. 3,044,183.
Moore, Arthur D.: *See*—
Broderson, Dean E., Jenkins, and Moore. 3,066,756.
Moore, Arthur R., to Florida Mfg. Corp. All purpose cervical collar. 3,027,894, 4–3–62, Cl. 128—75.
Moore, Arthur R., and R. C. Blair, Jr. Disposable halter. 3,046,980, 7–31–62, Cl. 128—75.
Moore, Benjamin & Co.: *See*—
Basto, Julio H., Capp, Davison, and Garbaden. 3,037,951.
Marsh, Lyle, and Malkin. 3,015,415.
Marsh, Lyle, and Malkin. 3,023,936.
Moore Business Forms, Inc.: *See*—
Lyall, George D., and Grandin. 3,047,311.
Macaulay, Norman. 3,016,308.
Macaulay, Norman. 3,020,170.
Moore, Carl, and W. F. Tousignant, to The Dow Chemical Co. Vinyl 2,2-dihalocyclopropyl carboxylates. 3,047,611, 7–31–62, Cl. 260—468.
Moore, Charles B., T. M. Amundson, and W. K. Dick, to General Mills, Inc. Catalytic chemical heater. 3,064,902, 11–20–62, Cl. 237—33.
Moore, Charles C.: *See*—
Gregory, James B., Moore, and Emerson. 3,048,157.
Huffman, Joseph G., and Moore. 3,057,192.
Moore, Charles D.: *See*—
Stieglitz, Hermann W., Kaiser, and Moore. 3,036,202.
Moore, Charles D., to Ford Motor Co. Motor vehicle body mounts. 3,032,370, 5–1–62, Cl. 296—35.
Moore, Charles O., and J. O. Van Tassel, to The Gates Rubber Co. Noiseless tread portion for tire casing. 3,023,798, 3–6–62, Cl. 152—209.
Moore, Clyde M. Alternating piston type engine. 3,034,449, 5–15–62, Cl. 103—129.
Moore, David L., to Lipe-Rollway Corp. Speed-torque metering unit. 3,026,979, 3–27–62, Cl. 192—104.

Moore, David P. Apparatus for and method of the heat treatment of thermoplastic high pile fabrics. 3,015,223, 1–2–62, Cl. 66—147.

Moore, David W. Root cutting attachment for bulldozers. 3,044,192, 7–17–62, Cl. 37—2.

Moore, Donald W., to Electrosolids Corp. Phase regulated inverters. 3,050,674, 8–21–62, Cl. 321—5.

Moore, Douglas A., to Northrop Corp. Drive mechanism. 3,028,767, 4–10–62, Cl. 74—665.

Moore Dry Kiln Co.: *See*—
Beckley, Arthur H. 3,033,465.
Beckley, Arthur H. 3,038,585.

Moore, Eddie. Tire chain assemblies. 3,037,543, 6–5–62, Cl. 152—233.

Moore, Edward B., to Vapor Heating Corp. Vaporizing liquid fuel burner. 3,061,000, 10–30–62, Cl. 158—94.

Moore, Edward B., and T. F. Houghton, to Aircraft Radio Corp. Transistor detector. 3,031,624, 4–24–62, Cl. 329—101.

Moore, Edward E.: *See*—
Saunders, John A., and Moore. 3,050,112.

Moore, Edward F.: *See*—
Gilbert, Edgar N., and Moore. 3,016,527.

Moore, Edward J., to E. I. du Pont de Nemours and Co. Film extrusion apparatus. 3,035,305, 5–22–62, Cl. 18—12.

Moore, Elvet E.: *See*—
Putzrath, Franz L., and Moore. 3,049,681.

Moore, Francis C., to Pittsburgh Plate Glass Co. Destructible reinforced sand core for metal casting. 3,066,365, 12–4–62, Cl. 22—165.

Moore, Francis J. Double roll toilet paper holder. 3,061,218, 10–30–62, Cl. 242—55.3.

Moore, Frank L.: *See*—
Helm, Charles W., Jr., and Moore. 3,024,322.

Moore, Frederick J.: *See*—
Mace, Robert C., Moore, and Mehl. 3,057,781.

Moore, Garvin M., Jr.: *See*—
Green, David J., Van Alstyne, Moore, Sanders, Bonness, Noland, and Olson. 3,031,658.
Van Alstyne, Alvin G., and Moore. 3,017,105.

Moore, George A.: *See*—
Henrickson, Erling G., and Moore. 3,046,695.

Moore, George A. Container construction. 3,066,844, 12–4–62, Cl. 229—48.

Moore, George A. Closure construction for containers. 3,070,277, 12–25–62, Cl. 229—37.

Moore, George L.: *See*—
Butler, William R., Moore, Keith, and Sanborn. 3,057,271.

Moore, Gerald T., to Giddings & Lewis Machine Tool Co. Compensation for activity changes in semiconductor devices. 3,032,662, 5–1–62, Cl. 250—204.

Moore, Gerald T., E. Herzberg, and H. P. Grossimon, to Giddings & Lewis Machine Tool Co. Rate control for data processing systems. 3,063,015, 11–6–62, Cl. 328—41.

Moore, Glenn E.: *See*—
Klaus, Richard M., and Moore. 3,038,714.

Moore & Hall: *See*—
Toulon, Pierre M. 3,050,654.
Toulon, Pierre M. G. 3,065,294.

Moore-Handley Hardware Co., Inc.: *See*—
Doty, Luther L., Jr., and Smith. 3,063,667.

Moore, Harold R.: *See*—
Wentz, Edward C., Moore, and Albright. 3,023,386.

Moore, Harry O., 50% to G. F. Lefler. Container puncturing apparatus. 3,055,105, 9–25–62, Cl. 30—4.

Moore, Harry O. Fire alarm system. 3,056,122, 9–25–62, Cl. 340—232.

Moore, Harry O., 50% to F. E. Godley. Punch power control apparatus. 3,058,117, 10–16–62, Cl. 1—106.

Moore, Harry O. Fishline casting apparatus. 3,059,370, 10–23–62, Cl. 43—19.

Moore, Harry W.: *See*—
Biddison, John M. 3,025,977.

Moore, Harry W. Apparatus for and method of winding stator coils. Re. 25,281, 11–6–62, Cl. 242—1.1.

Moore, Harry W. Coil winding machine. 3,032,073, 5–1–62, Cl. 140—92.2.

Moore, Harry W. Coil winding machine. 3,036,603, 5–29–62, Cl. 140—92.1.

Moore, Herbert C., to Stanray Corp. Automatic leveler for aircraft loading and unloading structure. 3,038,185, 6–12–62, Cl. 14—71.

Moore, Herman J. Tool grinding machine fixture and method of using same. 3,066,457, 12–4–62, Cl. 51—237.

Moore, Hilbert R.: *See*—
Ilgenfritz, Lester M., Moore, and Robertson. 3,016,514.

Moore, Howard H., Jr.: *See*—
McGowen, Harold E., Jr., and Moore. 3,037,558.

Moore, Howard H., Jr., to Camco, Inc. Storm choke. 3,045,760, 7–24–62, Cl. 166—224.

Moore, Howard N. Individual packaging apparatus, method, and package. 3,015,917, 1–9–62, Cl. 53—21.

Moore, Howard V., G. D. Edwards, and M. Lichtenwalter, to Jefferson Chemical Co., Inc., Asphaltic bituminous compositions. 3,046,149, 7–24–62, Cl. 106—273.

Moore, James A.: *See*—
Wittle, Eugene L., and Moore. 3,052,671.

Moore, James A., R. D. Westland, E. D. Nicolaides, and J. R. Dice, to Parke, Davis & Co. Amino acid compounds and methods for producing same. 3,030,388, 4–17–62, Cl. 260—349.

Moore, James C. Motor-driven water ski towing device. 3,062,172, 11–6–62, Cl. 115—6.1.

Moore, James J.: *See*—
Estes, Nelson N., Kemp, and Moore. 3,056,908.
Estes, Nelson N., and Moore. 3,054,031.

Moore, James J., 33⅓% to L. J. Bajak. Convertible table structure. 3,048,459, 8–7–62, Cl. 311—108.

Moore, James P. Panel assembly. 3,023,866, 3–6–62, Cl. 189—88.

Moore, James R., to said J. R. Moore, and T. M. Moore, joint tenants. Longitudinally adjustable shoe tree. 3,034,159, 5–15–62, Cl. 12—117.4.

Moore, Jerry W., Jr., to United Gas Corp. Apparatus for moving a line through a conduit. 3,047,270, 7–31–62, Cl. 254—134.6.

Moore, Jerry W., Jr., to United Gas Corp. Apparatus for moving through a pipe. 3,055,637, 9–25–62, Cl. 254—134.6.

Moore, John C. Trailing arm type suspension means for vehicles. 3,053,548, 9–11–62, Cl. 280—124.

Moore, John G.: *See*—
Rainey, Robert H., and Moore. 3,049,400.

Moore, John H.: *See*—
McAdam, Will, and Moore. 3,045,155.

Moore, John W., to Pittsburgh Plate Glass Co. Method of regenerating a degraded solution including an autoxidizable quinone. 3,055,838, 9–25–62, Cl. 252—182.

Moore, Joseph E.: *See*—
Kohn, Gustave K., Moore, and Ospenson. 3,062,707.
Kohn, Gustave K., Moore, and Ospenson. 3,062,867.
Ospenson, Joseph E., Kohn, and Moore. 3,062,864.

Moore, Joseph E. Phenyl acylic sulfones as fungicidal compositions. 3,039,919, 6–19–62, Cl. 167—30.

Moore, Joseph E., J. N. Ospenson, and G. K. Kohn, to California Research Corp. M-sec. butylphenyl n-methylcarbamate. 3,062,865, 11–6–62, Cl. 260—479.

Moore, Joseph E., J. N. Ospenson, and G. K. Kohn, to California Research Corp. M-(1-methylhexyl)phenyl n-methylcarbamate. 3,062,866, 11–6–62, Cl. 260—479.

Moore, Joseph E., J. N. Ospenson, and G. K. Kohn, to California Research Corp. 3-T-amyl-6-bromophenyl N-methylcarbamate. 3,062,868, 11–6–62, Cl. 260—479.

Moore, Joseph S., Jr., to Belwood Industries, Inc. Cabinet front unit. 3,063,768, 11–13–62, Cl. 312—111.

Moore, Kenneth L.: *See*—
Means, John W., and Moore. 3,065,899.

Moore, Lawrence A., and R. H. Hart, to Beloit Iron Works. Calender stack deflection control. 3,060,843, 10–30–62, Cl. 100—41.

Moore, Lawrence K. Apparatus for unplugging pipe in a well bore. 3,033,289, 5–8–62, Cl. 166—115.

Moore, Lawrence L., to Winslow Engineering and Mfg. Co. Filter. 3,023,906, 3–6–62, Cl. 210—484.

Moore, Lee C., Corp.: *See*—
Woolslayer, Homer J., Jenkins, Iddings, and Lynch. 3,058,311.
Woolslayer, Joseph R., and Jenkins. 3,026,970.
Woolslayer, Joseph R., and Jenkins. 3,042,377.

Moore, Lloyd L. Tri-cylinder lock. 3,027,744, 4–3–62, Cl. 70—134.

Moore, Leonard O., and J. W. Clark, to Union Carbide Corp. Novel fluorinated compounds. 3,055,913, 9–25–62, Cl. 260—327.

Moore, Marion F., to Container Corp. of America. Reclosable carton. 3,043,494, 7–10–62, Cl. 229—87.

Moore, Michael, E. E. Seaberg, and K. E. Guest. Sprinkler head for dry powder fire extinguishing chemicals. 3,039,536, 6–19–62, Cl. 169—37.

Moore, Michael J., to Burroughs Corp. Binary magnetic counter with one core per stage. 3,035,254, 5–15–62, Cl. 340—174.

Moore-Midland Corp.: *See*—
Moore, Robert R., and Rabb. 3,068,404.

Moore-Milford Corp.: *See*—
Moore, Robert R., and Rabb. 3,070,746.

Moore, Monte N. Electric motor. 3,026,459, 3–20–62, Cl. 318—172.

Moore, Morton E.: *See*—
Klover, John M., Melber, and Moore. 3,029,830.

Moore, Norman. Apparatus for cutting bagels or the like. 3,018,806, 1–30–62, Cl. 146—150.

Moore, Paul F.: *See*—
Rupert, William A. 3,060,450.
Rupert, William A. 3,061,264.

Moore, Pernell J., to National Lead Co. Contaminant gas detector. 3,041,591, 6–26–62, Cl. 340—237.

Moore, Pernell J., to National Lead Co. Hydrocarbon sampling. 3,050,449, 8–21–62, Cl. 202—152.

Moore, Philemon J., to Leeds and Northrup Co. Immersion pyrometer with non-directional contact structure. 3,024,295, 3–6–62, Cl. 136—4.

Moore, Preston L., to Jersey Production Research Co. Drilling of wells. 3,070,179, 12–25–62, Cl. 175—72.

Moore Products Co.: *See*—
Kirk, David B. 3,021,858.

Moore, Ralph F., C. E. Blumenauer, and R. J. Lipski, to United States Rubber Co. Leak detecting device for tire vulcanization press. 3,029,469, 4–17–62, Cl. 18—17.

Moore, Ralph W., to Panglorn Corp. Vibratory finishing. 3,063,207, 11–13–62, Cl. 51—163.

Moore, Raymond H., to United States of America, Atomic Energy Commission. Plutonium recovery from neutron-bombarded uranium fuel. 3,029,130, 4–10–62, Cl. 23—14.5.
Moore, Raymond H., to United States of America, Atomic Energy Commission. Preparation of actinide-aluminum alloys. 3,052,536, 9–4–62, Cl. 75—84.1.
Moore, Raymond H., to United States of America, Atomic Energy Commission. Preparation of uranium-aluminum alloys. 3,052,537, 9–4–62, Cl. 75—84.1.
Moore, Raymond H., to United States of America, Atomic Energy Commission Process of uranium-metal-containing fuel elements. 3,057,717, 10–9–62, Cl. 75—84.1.
Moore, Raymond W.: *See*—
Wallace, John W., Hull, and Moore. 3,049,036.
Moore, Redding F. Body supporting seat with relaxation means. 3,063,752, 11–13–62, Cl. 297—411.
Moore, Robert A.: *See*—
Carter, John L., and Moore. 3,052,856.
Moore, Robert C., to Philco Corp. Single channel stereophonic broadcasting system. 3,067,293, 12–4–62, Cl. 179—15.
Moore, Robert D.: *See*—
Tannehill, James R., and Moore. 3,023,557.
Tannehill, James R., Moore, and Zaenkert. 3,023,556.
Moore, Robert E. Self-propelled toy projectile. 3,021,640, 2–20–62, Cl. 46—74.
Moore, Robert E., to Mycalex Corp. of America. Method of making ceramoplastic material. 3,057,741, 10–9–62, Cl. 106—39.
Moore, Robert E., and R. M. Adkins. Mechanical compress bandage. 3,050,064, 8–21–62, Cl. 128—327.
Moore, Robert J.: *See*—
Handschy, John, Gordon, and Moore. 3,050,453.
Moore, Robert L.: *See*—
Briskin, Theodore S., Moore, and Rom. 3,027,666.
Briskin, Theodore S., Moore, and Rom. 3,059,741.
Briskin, Theodore S., Moore, and Rom. 3,063,610.
Moore, Robert L., and W. J. Atwell, to Raybestos-Manhattan, Inc. Extrudable composition comprising tetrafluoroethylene, methyl methacrylate, and a volatile organic lubricant. 3,054,761, 9–18–62, Cl. 260—2.5.
Moore, Robert P.: *See*—
Mays, Howard D., Moore, and Claus. 3,036,355.
Moore, Robert R., and L. R. Rabb, to Moore-Midland Corp. Test cell container for use with apparatus for measuring moisture content of materials. 3,068,404, 12–11–62, Cl. 324—65.
Moore, Robert R., and L. R. Rabb, to Moore-Milford Corp. Ohmmeter circuit for moisture testing. 3,070,746, 12–25–62, Cl. 324—65.
Moore, Samuel, & Co.: *See*—
Brumbach, Robert E. 3,062,241.
Brumbach, Robert E., and Johansen. 3,042,737.
Moore, Sewell T., and L. A. Landers, to American Cyanamid Co. Rosin sized paper containing sizing promotor. 3,033,743, 5–8–62, Cl. 162—166.
Moore, Stanley C., H. M. Rollins, and W. S. Bachman, to Drilco Oil Tools, Inc. Drill collar stabilizer. 3,063,759, 11–13–62, Cl. 308—4.
Moore, Thomas B., to Hunt Foods and Industries, Inc. Cigarette and match container. 3,021,944, 2–20–62, Cl. 206—48.
Moore, Thomas J., to Isaacson Iron Works. Machine for shearing flanges from I-beams. 3,049,955, 8–21–62, Cl. 83—422.
Moore, Thomas M.: *See*—
Moore, James R. 3,034,159.
Moore, Thomas M., and E. R. Arnold, to United States of America, Navy. Transistor energy storage counter. 3,021,428, 2–13–62, Cl. 307—88.5.
Moore, Thomas W., to American Machine & Foundry Co. Charging system for silver zinc batteries. 3,054,041, 9–11–62, Cl. 321—19.
Moore, Victor C., to General Motors Corp. Transmission. 3,030,824, 4–24–62, Cl. 74—677.
Moore, Walter G., to Marepa Trust Ltd. Launching and lowering gear, particularly for ships' lifeboats. 3,069,704, 12–25–62, Cl. 9—36.
Moore, Ward J.: *See*—
Arthaber, Josef M., and Moore. 3,034,436.
Moore, Wendell F., to Bell Aerospace Corp. Propulsion unit. 3,021,095, 2–13–62, Cl. 244—4.
Moore, Wendell F., to Bell Aerospace Corp. Space belt. 3,066 887, 12–4–62, Cl. 244—4.
Moore, Wendell F., to Bell Aerospace Corp. Reaction motor thrust control valve. 3,069,841, 12–25–62, Cl. 60—35.5.
Moore, William A., to Boeing Airplane Co. Device and method for producing low rate angular acceleration. 3,015,946, 1–9–62, Cl. 73—1.
Moore, William C. Orificial instrument construction. 3,032,031, 5–1–62, Cl. 128—6.
Moore, William C., to Allyn Welch, Inc. Orificial instrument construction. 3,038,466, 6–12–62, Cl. 128—4.
Moore, William C., to Welch Allyn, Inc. Orificial instrument construction. 3,040,738, 6–26–62, Cl. 128—3.
Moore, William H.: *See*—
Bale, Alton, G., Jr., and Moore. 3,066,709.
Kessler, Harry H., and Moore. 3,035,911.
Moore, William H., to Meehanite Metal Corp. Wear resistant cast iron. 3,042,512, 7–3–62, Cl. 75—123.
Moore, William H., to Meehanite Metal Corp. Method of improving foundry molds. 3,050,796, 8–28–62, Cl. 22—193.
Moore, Winfred O. Non-slip arrow nock. 3,034,789, 5–15–62, Cl. 273—106.5.
Moorehead, James R., to Boeing Airplane Co. Rotary turret reversible thrust noise suppression jet engine nozzles. 3,025,667, 3–20–62, Cl. 60—35.55.
Moores, Charles C. Templet for chuck jaws of lathes. 3,046,671, 7–31–62, Cl. 33—178.
Moores, J., & Sons Ltd.: *See*—
Pollitt, Paul S. 3,050,780.
Moores, Mead S.: *See*—
Rudner, Bernard, and Moores. 3,030,405.
Rudner, Bernard, and Moores. 3,042,636.
Mooresville Iron Works, Inc.: *See*—
Croxton, William B., and Holshouser. 3,015,147.
Moorhead, John P., to Evans Products Co. Rack for television tubes. 3,055,506, 9–25–62, Cl. 211—26.
Moorhead, Milton M., Jr.: *See*—
Valentine, Orvill H., Jr., Lodding, Kinkead, and Moorhead. 3,023,899.
Moorhead, Raymond C., to Armstrong Cork Co. Apparatus for forming a tube of unvulcanized rubber by cold seaming. 3,034,567, 5–15–62, Cl. 156—459.
Moorman, Earl J., to General Motors Corp. Refrigeration apparatus with defrost control means. 3,063,250, 11–13–62, Cl. 62—155.
Moos, Anthony M., to Leesona Corp. Fuel cell electrodes. 3,040,115, 6–19–62, Cl. 136—120.
Moos, Walter S.: *See*—
Fuller, John B., Moos, and Plagge. 3,063,413.
Moose, Joe D., and H. H. McCowen, to Ampex Corp. Magnetic tape transport mechanism. 3,062,464, 11–6–62, Cl. 242—55.12.
Moosman, Jack A., to Johnston Testers, Inc. Well apparatus. 3,015,362, 1–2–62, Cl. 166—216.
Moosman, Jack A., to Johnston Testers, Inc. Well packers. 3,061,012, 10–30–62, Cl. 166—201.
Moosmuller, Fritz: *See*—
Hofmann, Rudolf, Schmidt, Reichle, and Moosmuller. 3,065,224.
Moot, John R., to Cornwall Corp. Food warmer. 3,043,943, 7–10–62, Cl. 219—19.
Moote, Truman P.: *See*—
Gordon, Leon B., and Moote. 3,036,016.
Moothart, Kenneth L.: *See*—
Jewett, John E., Moothart, Morrison, and Snow. 3,015,800.
Moquin, Paul L., A. J. Nicholas, and D. N. Shaw, to Worthington Corp. Fluid connector for unloader of a reciprocating compressor. 3,061,177, 10–30–62, Cl. 230—30.
Mora, Antonio. Supporting device for accordions and like musical instruments. 3,029,678, 4–17–62, Cl. 84—376.
Morabito, Daniel T. Waste collecting device. 3,017,652, 1–23–62, Cl. 15—257.5.
Moracco, Joseph J., and C. L. Bush, to Chicago Pneumatic Tool Co. Low overhead jumbo drill supporting bracket. 3,020,012, 2–6–62, Cl. 248—16.
Moraff, Howard, to Bell Telephone Laboratories, Inc. Transistor monostable circuit. 3,013,468, 1–9–62, Cl. 307—88.5.
Moraine Box Co.: *See*—
Munroe, Thomas. 3,029,995.
Morales, Juan G., and S. B. Soloway, to Shell Oil Co. N-acylated-amino derivatives of halogenated bycyclo (2,2,1) hept-5-en-2-yl) compounds. 3,052,703, 9–4–62, Cl. 260—438.
Moran, Thomas J. Collapsible infant height measuring device. 3,020,643, 2–13–62, Cl. 33—138.
Moran, Edward E. Fully automatic electric can opener. 3,069,771, 12–25–62, Cl. 30—4.
Moran, Edward J. Multiplication device. 3,025,612, 3–20–62, Cl. 35—31.
Moran, Francis A. Electrical motor control system. 3,064,170, 11–13–62, Cl. 318—102.
Moran, Lawrence J.: *See*—
Wilson, James F. 3,038,508.
Moran, Michael J., to The Decca Record Co. Ltd. Waveguide switches. 3,031,631, 4–24–62, Cl. 333—7.
Moran, William J., to American Cyanamid Co. Process for the alkylation of dihydroxydibenzanthrone with alkylene dihalides. 3,036,095, 5–22–62, Cl. 260—355.
Morand, Max. Multi-cylinder internal combustion engines. 3,061,013, 10–30–62, Cl. 123—52.
Morandi, Federico. Spring head-clamped hook hinge joint for releasably securing artificial teeth. 3,057,067, 10–9–62, Cl. 32—5.
Morandi, Federico. Spring head-clamped hook hinge joint for releasably securing artificial teeth. 3,057,068, 10–9–62, Cl. 32—5.
Moranville, Claude: *See*—
Humbert, Jacques, Dubuisson, and Moranville. 3,025,156.
Morat, Franz, G.m.b.H.: *See*—
Schmidt, Richard. 3,035,425.
Moratis, Christy J., Y. Ichikawa, and E. A. Pigan, to Westinghouse Electric Corp. Applying electrodes to ceramic members. 3,023,390, 2–27–62, Cl. 338—309.
Morawietz, Wilhelm, to Duisburger Kupferhütte. Process for the production of pure indium. 3,049,478, 8–14–62, Cl. 204—64.
Morawski, Julian. Cyclone separator. 3,060,664, 10–30–62, Cl. 55—431.
Morawski, Zbigniew K. Sanitary removable covers for containers. 3,049,264, 8–14–62, Cl. 220—60.
Mørch, Hans H. Combined record player and gramophone amplifier. 3,070,671, 12–25–62, Cl. 179—100.11.

Morck, Roland A., to National Biscuit Co. Production of baked goods without physical working of the ingredients. 3,057,730. 10–9–62, Cl. 99—86.

Morco Oil Corp.: *See*—
Ronzio, Anthony R. 3,068,080.

Morden Machines Co.: *See*—
Honeyman, Robert B. 3,023,972.

More, Joseph E.: *See*—
Ospenson, Joseph N., Kohn, and More. 3,066,163.

Moreau, Leon: *See*—
Caron, Michel, Chaudron, and Moreau. 3,016,237.

Moreau, William J., and L. R. Nodine, to Davol Rubber Co. Esophageal nasogastric tube. 3,046,988, 7–31–62, Cl. 128—325.

Morecroft, Andrew S.: *See*—
Sandridge, Robert L., and Morecroft. 3,067,148.

Morehouse, Edward L.: *See*—
Pike, Ronald M., and Morehouse. 3,033,815.
Pruett, Roy L., and Morehouse. 3,063,974.

Morehouse, Edward L., to Union Carbide Corp. N-substituted derivatives of aminoalkylsilanes. 3,032,576, 5–1–62, Cl. 260—448.2.

Morehouse, Edward L., to Union Carbide Corp. N-substituted derivatives of aminoalkylsiloxanes. 3,032,577, 5–1–62, Cl. 260—448.2.

Morehouse, Edward L., to Union Carbide Corp. Sunburn preventive compositions. 3,068,153, 12–11–62, Cl. 167—90.

Morehouse, Frank L. Dispensing mechanism. 3,058,545, 10–16–62, Cl. 186—1.

Morehouse, Harold: *See*—
Cheney, Wendell C., Morehouse, and Whitfield. 3,021,183.

Morehouse, Patricia A., to The H. W. Gossard Co. Brassiere. 3,036,575, 5–29–62, Cl. 128—489.

Morehouse, Patricia A., to The S. W. Gossard Co. Foundation garment. 3,044,471, 7–17–62, Cl. 128—548.

Moreines, Harold: *See*—
Goldberg, Edward, Barash, and Moreines. 3,067,969.

Morel, Paul, and Yelnik, Georges, to Pechiney, Compagnie de produits Chimiques et Electrometallurgiques. Novel type electrode for electrolytic cells. 3,053,748, 9–11–62, Cl. 204—243

Morel, Paul, and A. Crevot, to Pechiney, Compagnie de Produits Chimiques et Electrometallurgiques. Manufacture of splined ingots. 3,066,401, 12–4–62, Cl. 29—417.

Morel, René: *See*—
Simmen, Robert, and Morel. 3,030,887.

Morel, Roger C.: *See*—
Point, Marcel A. R., and Morel. 3,039,696.

Moreland, Carlton A., to Phillips Petroleum Co. Cargo launcher. 3,026,772, 3–27–62, Cl. 89—1.5.

Moreland, Walter T.: *See*—
Agnello, Eugene J., Laubach, and Moreland. 3,067,197.
Hess, Hans-Jurgen E., Figdor, Huges, and Moreland. 3,042,691.

Morelle, Jules L. E., to Optique et Precision de Levallois. Setting devices for photographic apparatus. 3,018,705, 1–30–62, Cl. 95—10.

Morelle, Jules L. E., to Optique et Precison de Levallois. Automatic diaphragm control for cameras. 3,038,399, 6–12–62, Cl. 95—10.

Morello, Edwin F., to Standard Oil Co. Stabilized ammonium nitrate propellant. 3,020,180, 2–6–62, Cl. 149—18.

Moreno, Nivardo R. Grease seal retainer. 3,055,666, 9–25–62, Cl. 277—25.

Moressée, Georges, and R. Déchet, to Normacem S.A. Methods of making armature disk rotors for electrical machines. 3,059,323, 10–23–62, Cl. 29—155.53.

Moreton, Douglas H., to Douglas Aircraft Co., Inc. Phosphonate ester hydraulic fluid. 3,036,012, 5–22–62, Cl. 252—78.

Morey Corp., The: *See*—
Morey, William J. 3,061,234.

Morey, Everett D., to General Electric Co. Clothes drying machine. 3,018,560, 1–30–62, Cl. 34—45.

Morey, Everett D., to General Electric Co. Vaned wash basket. 3,029,623, 4–17–62, Cl. 68—4.

Morey, Everett D., to General Electric Co. Control system for clothes dryers. 3,050,865, 8–28–62, Cl. 34—45.

Morey, Norval K.: *See*—
Baker, Robert M., and Morey. 3,016,074.

Morey, William J., to The Morey Corp. Retractable conductor cord reel assembly. 3,061,234, 10–30–62, Cl. 242—107.1.

Morey, Woodruff A., and Y. H. Ames, to Whiting Corp. Crane load brakes. 3,026,462, 3–20–62, Cl. 318—302.

Morf, Max: *See*—
Matthews, Frederick W., and Morf. 3,044,849.

Morgan Adhesive Co.: *See*—
Morgan, Burton D. 3,032,463.

Morgan, Arthur I., R. P. Graham, and L. F. Ginnette, to United States of America, Agriculture. Process for removal of residual moisture from dehydrated products. 3,031,312, 4–24–62, Cl. 99—204.

Morgan, Arthur I., Jr., L. F. Ginnette, and R. P. Graham, to United States of America, Agriculture. Dehydration of fruits and vegetables. 3,031,313, 4–24–62, Cl. 99—206.

Morgan, Arthur I. Jr., and L. F. Ginnette, to United States of America, Agriculture. Production of carbohydrates in readily dispersible form. 3,064,722, 11–20–62, Cl. 159—49.

Morgan, Bill T.: *See*—
Pitzer, Emory W., and Morgan. 3,051,662.

Morgan, Bryan E.: *See*—
Caldwell, Joseph A., and Morgan. 3,022,823.

Morgan, Burton D., to Morgan Adhesive Co. Method for making punched label stock. 3,032,463, 5–1–62, Cl. 156—253.

Morgan, Burton D., to Avery Adhesive Products, Inc. Adhesive product having a liner with embrittled zones. 3,035,957, 5–22–62, Cl. 154—53.5.

Morgan, Burton D. Handling of self-adhering labels and the like. 3,044,923, 7–17–62, Cl. 156—248.

Morgan, Carrel B.: *See*—
Quail, Bernard W., and Morgan. 3,017,907.
Thomsen, William A. V., Morgan, and Quail. 3,016,920.

Morgan, Carrel B., and W. A. V. Thomsen, to Specialties Development Corp. Multi-operation normally closed valve. 3,033,216, 5–8–62, Cl. 137—68.

Morgan, Claude A., to The Majestic Co., Inc. Incinerator. 3,048,130, 8–7–62, Cl. 110—8.

Morgan Construction Co.: *See*—
Hermes, Robert J. 3,024,678.
Hitchcock, John H. 3,066,558.
Kinnicutt, Roger, Jr. 3,033,342.
Morgan, Myles. 3,020,000.
Morgan, Myles. 3,055,650.
Wilson, Alexander I. 3,055,242.

Morgan Crucible Co. Ltd., The: *See*—
Aldred, Francis H. 3,025,175.
White, Albert E. S. 3,019,068.

Morgan, David W., to Westinghouse Electric Corp. Electroluminescent screen and device. 3,069,596, 12–18–62, Cl. 315—169.

Morgan Development Laboratories, Inc.: *See*—
Linsley, Douglas F., and Miller. 3,038,311.

Morgan, Donald E.: *See*—
Rigg, Karl F., Morgan, and Christie. 3,067,874.

Morgan Engineering Co., The: *See*—
Schaper, Donald W. 3,064,324.

Morgan, Erving B.: *See*—
Evans, George A., Machielse, Morgan, and Weaver. 3,025,106.
Hayden, Ray A., and Morgan. 3,015,521.

Morgan, Erving B., to American Seating Co. Folding chair. 3,025,100, 3–13–62, Cl. 297—41.

Morgan, George L. Turntables of record players. 3,048,408, 8–7–62, Cl. 274—39.

Morgan, George W., to North American Aviation, Inc. Curtainwall. 3,038,568, 6–12–62, Cl. 189—34.

Morgan, Gerard E., and F. A. Rappleyea, to John T. Riddell Inc. Snap-on shoe cleat assembly. 3,054,197, 9–18–62, Cl. 36—59.

Morgan, Harold R.: *See*—
Egler, Vernon C., and Morgan. 3,062,372.

Morgan, Harry A., Jr., to Reddi-Wip, Inc. Sterilizing procedures for aseptic canning. 3,050,914, 8–28–62, Cl. 53—25.

Morgan, Harry C.: *See*—
Klein, Martin L., Morgan, and Goudey. 3,017,582.

Morgan, Harry W.: *See*—
Early, James R., and Morgan. 3,069,530.

Morgan, Harvey L., to Motorola, Inc. Square wave developing circuit using back to back zener diodes and with series inductance. 3,056,946, 9–25–62, Cl. 307—88.5.

Morgan, Henry C., and A. R. Glanton. Slug for a shotgun shell. 3,062,145, 11–6–62, Cl. 102—38.

Morgan, Herbert S., Jr., to Monsanto Chemical Co. Method for the production of zein textile fibers. 3,068,062, 12–11–62, Cl. 23—54.

Morgan, Hugh L., ½oth to Ledford-Todd Corp. Holder for collapsible tubes. 3,062,490, 11–6–62, Cl. 248—108.

Morgan, Hugh M.: *See*—
Currie, Courtland B., and Morgan. 3,020,921.
Dietiker, Paul, and Morgan. 3,027,498.

Morgan, Hugh M., to Minneapolis-Honeywell Regulator Co. Flow valve. 3,043,324, 7–10–62, Cl. 137—87.

Morgan, Ivor G.: *See*—
Evans, James C., Morgan, Nickols, Garratt, Mason, and Atkins. 3,026,714.

Morgan, James G., to E. I. du Pont de Nemours and Co. Leader film. 3,021,229, 2–13–62, Cl. 117—76.

Morgan, James L., to The Prime Mfg. Co. Brake cylinder release valve. 3,042,457, 7–3–62, Cl. 303—69.

Morgan, James J. Accelerometer with velocity and distance integrating means. 3,046,792, 7–31–62, Cl. 73—490.

Morgan, James J. Balanced accelerometer. 3,060,750, 10–30–62, Cl. 73—517.

Morgan, John E. Underwear. 3,059,459, 10–23–62, Cl. 66—177.

Morgan, John F., and C. E. Gray. Seed pellet dispenser and planter. 3,048,132, 8–7–62, Cl. 111—77.

Morgan, John M., and J. B. Kubeck, to General Electric Co. Method for constructing arc discharge devices. 3,045,093, 7–17–62, Cl. 219—9.5.

Morgan, John M., Jr., H. K. Brown, and J. A. Rave, Jr., to The Cincinnati Milling Machine Co. Hand servo control system. 3,019,377, 1–30–62, Cl. 318—24.

Morgan, John M., Jr., and R. G. Wise, to The Cincinnati Milling Machine Co. Automatic grinding machine. 3,056,240, 10–2–62, Cl. 51—165.

Morgan, John V., to Eastman Kodak Co. Procedure for forming photosensitive lead sulfide layers by vacuum evaporation. 3,026,218, 3–20–62, Cl. 117—201.

Morgan, Julius S., and R. H. Lee, to Basler Electric Co. Phase-balancing control systems for three-phase generators. 3,045,126, 7–17–62, Cl. 307—19.

Morgan, Lyman W., to Phillips Petroleum Co. Internal reflux computer for fractionation control. 3,018,229, 1–23–62, Cl. 202—40.

Morgan, Lyman W., to Phillips Petroleum Co. Control system for nitric acid plant. 3,067,014, 12–4–62, Cl. 23—253.

Morgan, Lyman W., and L. R. Freeman, to Phillips Petroleum Co. Fractionator control system. 3,018,230, 1–23–62, Cl. 202—40.

Morgan, Lyman W., and D. C. Tabler, to Phillips Petroleum Co. Catalyst regeneration process and apparatus. 3,050,469, 8–21–62, Cl. 252—417.

Morgan, Marcus S.: *See*—
Hawthorne, John O., and Morgan. 3,061,638.

Morgan, Merle L., to Electro-Measurements, Inc. Apparatus for evaluating algebraic functions. 3,044,706, 7–17–62, Cl. 235—193.

Morgan, Morris G.: *See*—
Treiber, Gottlieb H. 3,041,759.

Morgan, Myles. Zipper actuator. Re. 25,250, 10–2–62, Cl. 24—205.15.

Morgan, Myles, to Morgan Construction Co. Reeling apparatus. 3,020,000, 2–6–62, Cl. 242—81.

Morgan, Myles, to Morgan Construction Co. Apparatus for the heating of billets and the like. 3,055,650, 9–25–62, Cl. 262—3.

Morgan, Paul A., to The Drackett Co. Self-wringing sponge mop. 3,050,761, 8–28–62, Cl. 15—119.

Morgan, Paul W.: *See*—
Kwolek, Stephanie L., Morgan, and Sorenson. 3,063,966.

Morgan, Paul W., to E. I. du Pont de Nemours and Co. Process for the production of a fibrid slurry. 3,068,527, 12–18–62, Cl. 18—48.

Morgan, Philip F., to FMC Corp. Method of dispersing gases. 3,058,908, 10–16–62, Cl. 210—15.

Morgan, Phillip R.: *See*—
Williams, Russell F., and Morgan. 3,018,618.
Williams, Russell F., Morgan, and Glenday. 3,015,325.

Morgan, Raymond. Gaseous electron tube. 3,054,918, 9–18–62, Cl. 313—93.

Morgan, Raymond E., to General Electric Co. Magnetic silicon controlled rectifier power amplifier. 3,019,355, 1–30–62, Cl. 307—88.5.

Morgan, Raymond E., to General Electric Co. Magnetic control apparatus. 3,022,429, 2–20–62, Cl. 307—88.

Morgan, Richard H.: *See*—
Hoadley, Lemuel D., McGrath, and Morgan. 3,053,524.

Morgan, Victor G.: *See*—
Slayter, Games, Whitehurst, and Morgan. 3,047,409.

Morgan, Wallace M.: *See*—
Haigh, Henry W., and Morgan. 3,019,146.

Morgan, Walter A., to Esso Research and Engineering Co. Servosystem electro-mechanical reset mechanism. 3,020,-453, 2–6–62, Cl. 318—28.

Morgan, Walter A., to Esso Research and Engineering Co. Automatic temperature control system. 3,060,299, 10–23–62, Cl. 219—20.

Morgan, Willard L.: *See*—
Hillman, Anthony E., and Morgan. 3,049,468.
Russell, Robert G., Morgan, and Scheffler. 3,065,091.
Shannon, Richard F., Morgan, and Sullivan. 3,039,981.
Slayter, Games, Morgan, Morrison, and Shannon. 3,050,427.

Morgan, Willard L., H. B. Whitehurst, R. G. Russell, and C. J. Stalego, to Owens-Corning Fiberglas Corp. Production of fibers in intimate association with metal. 3,021,564, 2–20–62, Cl. 18—47.3.

Morgan, Willard L., A. R. Morrison, and R. F. Shannon, to Owens-Corning Fiberglas Corp. Method of manufacturing a fibrous product. 3,025,202, 3–13–62, Cl. 156—34.

Morgan, Willard L., A. R. Morrison, and R. F. Shannon, to Owens-Corning Fiberglas Corp. Fibrous glass product and method of manufacture. 3,062,682, 11–6–62, Cl. 117—120.

Morgan, William E., Jr., to Sperry Rand Corp. Automatic frequency control system. 3,021,424, 2–13–62, Cl. 250—20.

Morgan, William H., to The Bendix Corp. Meteorological telemetering. 3,068,692, 12–18–62, Cl. 73—189.

Morgan, William H., T. W. Herbst, and D. R. King, to Ethyl Corp. Simultaneous evacuation of a vessel and separation of undesirable materials from vapors. 3,046,791, 7–24–62, Cl. 141—7.

Morgan, William H., Jr.: *See*—
Barre, Wade E., Jr., and Morgan. 3,018,462.

Morgenstern, David. Surface decoration of sheet material. 3,030,232, 4–17–62, Cl. 117—119.6.

Morgenstern, Stephen. Universal joint. 3,036,446, 5–29–62, Cl. 64—3.8.

Morgentaler, Abram: *See*—
Czernec, Michael, and Morgentaler. 3,033,061.

Morgese, George: *See*—
Dillon, Edward M. 3,063,180.

Mori, Miyoshi. Cam control assembly. 3,039,323, 6–19–62, Cl. 74—568.

Mori, Takeyasu: *See*—
Shibata, Katasusuke, and Mori. 3,068,616.

Moriarty, Eugene J. to Moriarty Mfg. Co. Swinging door latch. 3,063,745, 11–13–62, Cl. 292—244.

Moriarty, John H., and A. C. Nowlin, to Arthur D. Little, Inc. Chemically leavened bread process. 3,060,031, 10–23–62, Cl. 99—90.

Moriarty Mfg. Co.: *See*—
Moriarty, Eugene J. 3,063,745.

Moricca, Anthony C. and S. A., and C. E. Bohn. Device for testing reactances. 3,017,571, 1–16–62, Cl. 324—51.

Moricca, Samuel A.: *See*—
Moricca, Anthony C. and S. A., and Bohn. 3,017,571.

Morici, Alfred A., to Contadina Foods. Divider package. 3,015,429, 1–2–62, Cl. 229—15.

Morici, Nazarene G. Bumper jack. 3,036,817, 5–29–62, Cl. 254—134.

Moriguchi, Yoshiro, to Nippon Electric Co. Ltd. Semiconductor device. 3,027,502, 3–27–62, Cl. 317—235.

Morimoto, Masuhiro: *See*—
Hosokawa, Eiichi and M., Matsuyama, and Morimoto. 3,040,888.

Morimoto, Osamu: *See*—
Osugi, Tetsuro, Tanabe, Kawabe, Yabe, Morimoto, and Miyazaki. 3,027,224.

Morin, Edward L.: *See*—
Fellers, John C., and Morin. 3,049,427.

Morin, George, to Johnson & Johnson. Core for orthopedic bandages. 3,062,370, 11–6–62, Cl. 206—63.2.

Morin, John O., J. O. McDonough, and H. P. Grossimon, to The Hartford Special Machinery Co. Position control servosystem. 3,020,460, 2–6–62, Cl. 318—28.

Morin, Lionel, and J. Robin. Polyvalent kit made from interadaptable and interchangeable elements, in particular for medical use. 3,058,579, 10–16–62, Cl. 206—12.

Morin, Louis H. Ladder-like burr separable fastener. 3,020,613, 2–13–62, Cl. 24—204.

Morin, Louis H., to Coats & Clark Inc. Surface covered separable fasteners. 3,022,560, 2–27–62, Cl. 24—205.15.

Morin, Louis H. Automatic lock sliders for separable fastener stringers. 3,026,590, 3–27–62, Cl. 24—205.14.

Morin, Louis H. Burr-type closure or coupling element. 3,031,730, 5–1–62, Cl. 24—204.

Morin, Louis H. Method of casting separable fastener stringer with stringer tape angularly to the scoops. 3,034,176, 5–15–62, Cl. 18—36.

Morin, Louis H. Separator for invisible separable fastener stringers. 3,046,627, 7–31–62, Cl. 24—205.11.

Morin, Louis H., to Coats & Clark Inc. Locking yoke for sliders of separable fastener stringers. 3,046,628, 7–31–62, Cl. 24—205.14.

Morin, Louis H. Method of producing dies from a preformed die part anchored in and projecting from a powered metal die body. 3,046,816, 7–31–62, Cl. 76—107.

Morin, Louis H. Thin slider for one sided separable fastener stringer. 3,050,804, 8–28–62, Cl. 24—205.14.

Morin, Louis H., to Coats & Clark Inc. Plastic scoop for separable fastener stringers. 3,055,069, 9–25–62, Cl. 24—205.13.

Morin, Louis H. Offset heel for separable fastener stringer scoops. 3,055,070, 9–25–62 Cl. 24—205.13.

Morin, Louis H., to Coats & Clark Inc. Traveler with wire supported wear resistant element. 3,055,166, 9–25–62, Cl. 57—125.

Morin, Louis H., to Coats & Clark Inc. Method and apparatus for casting multiple plastic scoops and controlling predetermined stringer lengths. 3,068,519, 12–18–62, Cl. 18—30.

Morin, Louis H. One-sided separable fastener. 3,068,541, 12–18–62, Cl. 24—205.13.

Morin, Louis H., to Coats & Clark Inc. Method of synchronizing sewing machine operation with operation of casting machine. 3,071,048, 12–25–62, Cl. 112—2.

Morin, Louis H., and O. Gries; said Gries assor. to Coats & Clark Inc. Apparatus for molding plastic insert in threaded sock nut blanks. 3,018,519, 1–30–62, Cl. 18—36.

Morin, Lucille T., and K. Matsuda, to American Cyanamid Co. 3-cyano-1,2,4-triazines and their preparation. 3,021,328, 2–13–62, Cl. 260—248.

Morin, Lucille T., and K. Matsuda, to American Cyanamid Co. 3-cyano-5-methyl-1,2,4-triazole. 3,021,336, 2–13–62, Cl. 260—308.

Morin, Lucille T., and K. Matsuda, to American Cyanamid Co. Preparation of 5-cyanotetrazoles. 3,021,337, 2–13–62, Cl. 260—308.

Morin, Lucille T., and K. Matsuda, to American Cyanamid Co. 2-substituted 1-cyanoformimidic acid hydrazides and their preparation. 3,033,893, 5–8–62, Cl. 260—465.

Morin, Lucille T., and K. Matsuda, to American Cyanamid Co. 2-acyl derivatives of 1-cyanoformimidic acid hydrazide. 3,038,928, 6–12–62, Cl. 260—465.4.

Morin, Ovide G., to Avco Corp. Servo system. 3,048,753, 8–7–62, Cl. 318—28.

Morin, Ralph H., to Raytheon Co. Cathode ray tube washing machines. 3,021,851, 2–20–62, Cl. 134—46.

Morin, Robert M.: *See*—
Maillard, Jacques G. A. E., Morin, and Benard. 3,065,-134.
Maillard, Jacques G. A. E., Morin, Vincent, and Benard. 3,047,462.

Morin, Roland R.: *See*—
Vorwerk, Vernon R., and Morin. 3,050,940.

Moring, Peter L. E.: *See*—
Goy, Ronald S., and Moring. 3,061,941.

Morisette, Douglas H., to American Can Co. Food package. 3,037,653, 6–5–62, Cl. 215—81.

Morishita Jintan Co., Ltd.: *See*—
Yoshimoto, Norboru. 3,059,762.

Morishita, Tetsuo: *See*—
Kodera, Toshio, Morishita, and Ota. 3,039,412.

Morisuye, Masanobu, to Westinghouse Electric Corp. Electrical apparatus. 3,040,281, 6–19–62, Cl. 336—206.

Morita, Eiichi: *See*—
Nakajo, Shogo, and Morita. 3,066,999.
Morita, Masasuke, and S. Ito, to Nippon Electric Co. Ltd. Reception system of high sensitivity for frequency- or phase-modulated wave. 3,069,625, 12–18–62, Cl. 325—349.
Morita, Sadayoshi, and M. Sato, to Yawata Iron and Steel Co., Ltd. Production of high tensile strength, high notch toughness steel by low temperature anneal. 3,028,270, 4–3–62, Cl. 148—143.
Morita, Sigeru, and S. Abe, to Nippon Electric Co., Ltd. Cabinet mounting system. 3,057,672, 10–9–62, Cl. 312—330.
Morita, Syugo: *See*—
Mihara, Hajime, Miwa, Ueno, and Morita. 3,060,211.
Moritz, Donald B., and H. J. Ferguson, to Waco-Porter Corp. Shore attachment combination. Re. 25,225, 8–14–62, Cl. 248—354.
Moritz, Evan L.: *See*—
Elbert, Roland B., and Moritz. 3,041,441.
Moritz, Karsten H., and G. P. Hamner, to Esso Research and Engineering Co. Hydrogen fluoride treatment of coking and cracking feed stock. 3,061,539, 10–30–62, Cl. 208—90.
Moritz, William E.: *See*—
Yost, James M., and Moritz. 3,045,287.
Moriya, Ikuro, to Victor Co. of Japan, Ltd. Magnetic recording and reproducing system. 3,020,355, 2–6–62, Cl. 179—100.2.
Moriya, Saburo M. Means for controlling magnetic fields. 3,059,156, 10–16–62, Cl. 317—201.
Moriya, Saburo M., to International Patent Cooperation. Means for ionizing flowing fluids. 3,059,910, 10–23–62, Cl. 261—72.
Moriya, Saburo M., to International Patent Cooperation. Means for ionizing fluids. 3,060,339, 10–23–62, Cl. 313—153.
Moriya, Saburo M., and Y. Asakawa, to International Patent Cooperation. Apparatus for the ionization of electrons of flowable materials. Re. 25,201, 7–17–62, Cl. 313—153.
Mork, Raymond P., to Raytheon Co. Self-tuning filter circuits for increasing ratio of narrow band variable frequency signal to broad band noise. 3,022,471, 2–20–62, Cl. 333—17.
Morkoski, James, to International Harvester Co. Implement stabilizer. 3,024,850, 3–13–62, Cl. 172—450.
Morkoski, James, to International Harvester Co. Rotary hoe wheel having interconnected teeth developing a trash guard ring. 3,065,804, 11–27–62, Cl. 172—543.
Morkoski, James, and E. J. Birkenbach, to International Harvester Co. Rotary hoe wheel. 3,040,819, 6–26–62, Cl. 172—556.
Morkoski, James, and E. A. Harden, to International Harvester Co. Implement lift means. 3,059,706, 10–23–62, Cl. 172—445.
Morley, Arnold W., to D. Napier & Son Ltd. Gas turbine power units for helicopters. 3,053,324, 9–11–62, Cl. 170—135.4.
Morley, Arnold W., to D. Napier & Son Ltd. Gas turbine power units for helicopters. 3,053,377, 9–11–62, Cl. 170—135.4.
Morley, Charles W.: *See*—
Embler, Harold G., Mountford, and Morley. 3,051,669.
Mountford, Norman D. G., and Morley. 3,042,982.
Morley Co., The: *See*—
Spinney, Clayton S. 3,064,264.
Morley, Frederick W. W., to Rolls-Royce Ltd. Aircraft jet propulsion apparatus with thrust reversing means. 3,024,604, 3–13–62, Cl. 60—35.54.
Morley, Frederick W. W., to Rolls-Royce Ltd. Gas turbine engine with shaft failure control. 3,050,939, 8–28–62, Cl. 60—39.09.
Morley, Frederick W. W., D. O. Davies, and F. L. Grint, to Rolls-Royce Ltd. Aircraft and turbine operated auxiliary equipment. 3,024,624, 3–13–62, Cl. 62—402.
Morley, Frederick W. W., N. H. Kent, P. E. Hunter, and W. H. Wilkinson, to Rolls-Royce Ltd. Rotors, for example rotor discs for axial-flow turbines. 3,051,437, 8–28–62, Cl. 253—39.15.
Morley, Frederick W. W., and J. M. S. Keen, to Rolls-Royce Ltd. Jet propulsion engine with adjustable nozzle. 3,060,681, 10–30–62, Cl. 60—35.6.
Morley, James P.: *See*—
Blair, Richard W., Johnson, and Morley. 3,053,593.
Morley, John S.: *See*—
Hinton, Anthony J., Morley, and Turner. 3,065,123.
Morley, Philip W., R. R. Werner, and D. K. Mitchell, to United States of America, Navy. Missile cart. 3,038,614, 6–12–62, Cl. 214—1.
Morlik, Andrew L., to Saginaw Products Corp. Seal means for keyed telescoping members. 3,037,820, 6–5–62, Cl. 308—3.5.
Morlik, Andrew L., to Saginaw Products Corp. Seal construction. 3,069,180, 12–18–62, Cl. 277—174.
Mormann, Lawrence J. Sheet metal working tools. 3,038,360, 6–12–62, Cl. 81—15.
Morning Coffee, Inc.: *See*—
Brown, Charles H. 3,031,875.
Moro, Antonio. Support arrangement for mounting the mechanism located under the base of sewing machines. 3,018,747, 1–30–62, Cl. 112—258.
Moro, Antonio, to Fratelli Borletti, S.p.A. Device for regulating the displacement of the fabric feed member in sewing machines. 3,064,604, 11–20–62, Cl. 112—210.
Moro, Antonio, to Fratelli Borletti, S.p.A. Shuttle thrower for sewing machines. 3,064,605, 11–20–62, Cl. 112—232.
Moro-Lin, Joseph J., and L. Hoeninghausen, to Kalman Floor Co., Inc. Concrete finishing machine. 3,046,855, 7–31–62, Cl. 94—45.
Moro Lin, Joseph J., and L. Hoeninghausen, to Kalman Floor Co., Inc. Cement finishing machine. 3,066,584, 12–4–62, Cl. 94—45.
Moro-Lin, Joseph J., and E. T. Lyon. Cementing of semiconductor device components. 3,070,683, 12–25–62, Cl. 219—9.5.
Moroschan, Frank G. Re-dyeing in a tiltable washing machine. 3,069,223, 12–18–62, Cl. 8—159.
Morowitz, Harold J., to Puritron Corp. Device and method for producing negative ions. 3,043,977, 7–10–62, Cl. 313—102.
Morphet, John C., Jr., to International Business Machines Corp. Frequency shifting self-synchronizing clock. 3,029,389, 4–10–62, Cl. 328—55.
Morphew, Clarence E.: *See*—
Adams, Daniel M., and Morphew. 3,056,620.
Morpul, Inc.: *See*—
Minton, Clarence W. 3,034,325.
Minton, Clarence W. 3,067,600.
Morre, John H.: *See*—
McAdam, Will, and Morre. 3,045,155.
Morreale, Dominick, and J. H. Waldock, to Bausch & Lomb Inc. Apparatus for lens mounting. 3,064,717, 11–20–62, Cl. 156—575.
Morrell, Charles P. Boiler spuds and the like and methods of attaching same. 3,026,130. 3–20–62, Cl. 285—201.
Morrell, Don P. Magnetic filter cartridge. 3,034,651, 5–15–62, Cl. 210—222.
Morrell, Gerald, to United States of America, National Aeronautics and Space Administration. Method for continuous variation of propellant flow and thrust in propulsive devices. 3,045,424, 7–24–62, Cl. 60—35.3.
Morrell, Jacque C. Catalyst and process of making the same. 3,044,964, 7–17–62, Cl. 252—435.
Morrell, Jacque C. Polymerization catalyst. 3,050,472, 8–21–62, Cl. 252—435.
Morrell, Jacque C. Polymerization catalyst. 3,050,473, 8–21–62, Cl. 252—435.
Morrell, John, & Co.: *See*—
Lowe, John M. 3,048,319.
Morrell, John P., to Minneapolis Moline Co. Lift trucks and attachments therefor. 3,018,909, 1–30–62, Cl. 214—654.
Morrello, Charles J. Pneumatic tire-filling device. 3,019,831, 2–6–62, Cl. 152—415.
Morrill, Austin L.: *See*—
Eckler, Richard C., and Morrill. 3,015,713.
Morrill, Louis R. Automatic rotation balancer. 3,017,223, 1–16–62, Cl. 301—5.
Morris, Arthur L., to Esso Research and Engineering Co. Method of lubricating metal parts exposed to nuclear radiation and hot carbon dioxide. 3,046,223, 7–24–62, Cl. 252—27.
Morris, Bryan J., to Dunlop Rubber Co. Ltd. Vehicle suspension systems. 3,063,733, 11–13–62, Cl. 280—124.
Morris, Carl L.: *See*—
Dick, Wade W. 3,065,702.
Morris, Charles E. Key holder. 3,053,072. 9–11–62, Cl. 70—456.
Morris, Charles W. Device for modifying exhaust gases from internal combustion engines. 3,037,344. 6–5–62, Cl. 60—30.
Morris, Charles W. Engine afterburner control system. 3,058,298, 10–16–62, Cl. 60—29.
Morris, Clifford: *See*—
Lorett, Jerzy A., and Morris. 3,016,703.
Morris, Corbin L. Lunch pail. 3,054,502, 9–18–62, Cl. 206—4.
Morris Corp., The: *See*—
Morris, Louis, Jr., and J. F. Penkala, S. F. Penkala. 3,039,156.
Morris, Daniel I. Flexible folding box. 3,021,045, 2–13–62, Cl. 229—37.
Morris, Dorsey J.: *See*—
Stewart, Hercules Dorn, Morris and Wilson. 3,049,436.
Morris, Frank A., to General Dynamics Corp. Digit sending means for telephone systems. 3,035,125, 5–15–62, Cl. 179—18.
Morris, Frank G., to Purex Corp., Ltd. Process for removal of radioactive contaminants. 3,033,794, 5–8–62, Cl. 252—135.
Morris, George A. Hand tool. 3,027,826, 4–3–62, Cl. 100—133.
Morris, George E., and G. W. Wadsworth, to General Electric Co. Electrical socket. 3,058,090, 10–9–62, Cl. 339—193.
Morris, George F.: *See*—
Earls, David E., and Morris. 3,066,262.
Morris, George F., to General Dynamics Corp. Duty cycle control for radio beacons. 3,015,816, 1–2–62, Cl. 343—6.8.
Morris, George F., to General Dynamics Corp. Phase locked trigger generator 3,051,905, 8–28–62, Cl. 328—13.
Morris, George J.: *See*—
Palmer, Robert C., and Morris. 3,049,494.
Morris, George R. Drilling fluid. 3,042,607, 7–3–62, Cl. 252—8.5.
Morris, George R. Additive for a well servicing composition. 3,042,608, 7–3–62, Cl. 252—8.5.
Morris, George V., to Zenith Radio Corp. Polarized relay. 3,043,932, 7–10–62, Cl. 200—90.

Morris, Glen W.: *See*—
Curtis, Harold S., Curtis, Divola, Maletz, Morris, and Schiltz, 3,048,356.
Morris, Harry: *See*—
Lipman, Leonard M., and Morris, 3,050,792.
Morris, Harry C., and R. F. Meier; said Meier assor. to said Morris. Friction clutch. 3,019,872, 2–6–62, Cl. 192—44.
Morris, Henry F., to Sonoco Products Co. Bobbin. 3,033,489, 5–8–62, Cl. 242—118.32.
Morris, Herbert E., to General Electric Co. Armature rebound damper mechanism. 3,031,549, 4–24–62, Cl. 200—87.
Morris, Hilary J.: *See*—
Hart, Edward H., Tribby, and Morris, 3,061,509.
Morris, Horton H.: *See*—
Gunn, Fred A., and Morris. 3,034,859.
Morris, Howard E.: *See*—
Zenner, Raymond E., and Morris. 3,035,765.
Morris, Howard E., to Victor Comptometer Corp. Code punching machine. 3,035,763, 5–22–62, Cl. 234—128.
Morris, Jack, to American Machine & Foundry Co. Spiral tube mill. 3,046,382, 7–24–62, Cl. 219—62.
Morris, Jack, to American Machine & Foundry Co. Method and apparatus for welding strip-like material to curved surfaces. 3,047,712, 7–31–62, Cl. 219—107.
Morris, Jack, H. Zausner, and C. Beaumont, to American Machine & Foundry Co. Mounting device. 3,056,882, 10–2–62, Cl. 219—65.
Morris, James E., to General Dynamics Corp. Electrical connector contact crimping tool. 3,059,511, 10–23–62, Cl. 81—15.
Morris, John C., to Sperry Rand Corp. Ribbon mechanism for typewriter. 3,048,254, 8–7–62, Cl. 197—151.
Morris, John D., and S. Hirst, to Hirst Electronic Ltd. Arc welding current control apparatus. 3,034,016, 5–8–62, Cl. 315—176.
Morris, John E.: *See*—
Williams, David P., Sr. 3,042,499.
Morris, John E. Margin justifying attachment for typewriters. 3,035,678, 5–22–62, Cl. 197—84.
Morris, John M.: *See*—
Carrier, Robert W., Jr., and Morris. 3,024,663.
Evans, Robley W., and Morris. 3,058,576.
Morris, John M., to Chain Belt Co. Tunable vibration exciter. 3,061,079, 10–30–62, Cl. 198—220.
Morris, John M., to Chain Belt Co. Air assisted vibratory hopper discharge. 3,062,411, 11–6–62, Cl. 222—195.
Morris, John M., and R. W. Evans, to Chain Belt Co. Vibratory heat transfer apparatus. 3,058,235, 10–16–62, Cl. 34—164.
Morris, John N., to The S.U. Carburetter Co. Ltd. Fuel-injection pumps for compression-ignition internal combustion engines. 3,068,793, 12–18–62, Cl. 103—2.
Morris, John N., and A. Hossack, ½ to The S.U. Carburetter Co., Ltd., and ½ to Simmonds Precision Products Inc. Fuel-injection pumps for compression-ignition internal combustion engines. 3,068,794, 12–18–62, Cl. 103—9.
Morris, John R., R. C. Schlicht, C. W. Adams, and J. A. Lawrence, to Texaco Inc. "Non-squawking" automatic transmission fluid. 3,017,361, 1–16–62, Cl. 252—35.
Morris, John W.: *See*—
Beemer, Paul K., and Morris. 3,015,217.
Morris, Lawrence R.: *See*—
Grenstad, Arvid, Herr, Morris, and Sherman. 3,045,552.
Hieretelu, Ralph F., and Morris. 3,049,976.
Morris, Leo R., to The Dow Chemical Co. Sulfonium derived anion exchanging and chelating resins having primary amino groups. 3,037,944, 6–5–62, Cl. 260—2.1.
Morris, Leo R., to The Dow Chemical Co. Anion exchanging and chelating resins having primary amino groups. 3,037,945, 6–5–62, Cl. 260—2.1.
Morris, Lester. Soap dish. 3,054,212, 9–18–62, Cl. 45—28.
Morris, Lewis D., and R. S. Brookman, to Dustex Corp. Dust collector. 3,060,663, 10–30–62, Cl. 55—302.
Morris, Louis, Jr., and J. F. and S. F. Penkala, to The Morris Corp. Adjustable weather stripping for door frames and the like. 3,039,156, 6–19–62, Cl. 20—68.
Morris, Lynwood L., ½ to H. Clepatch. Denture anchoring system. 3,043,005, 7–10–62, Cl. 32—2.
Morris, Marion H., and S. H. Williston, to Sperry-Sun Well Surveying Co. Anti-friction mountings. 3,023,512, 3–6–62, Cl. 33—206.
Morris, Philip, Inc.: *See*—
Bavley, Abraham, and Robb. 3,047,431.
Bavley, Abraham, and Robb. 3,047,432.
Bavley, Abraham, and Robb. 3,047,433.
Casselman, Elbridge J., and Conant. 3,025,747.
Davis, Loyal H., Arkin, and Updike. 3,043,507.
Fjeran, John. 3,061,926.
Hind, John D. 3,046,997.
Merritt, Henry B. 3,061,479.
Smith, Horace L., Jr., and Lichtenstein. 3,060,724.
Wagner, Edward E., and Gibson. 3,060,814.
Morris, Robert A. Ambulant floating seat. 3,020,569, 2–13–62, Cl. 9—347.
Morris, Robert S., to American Optical Co. Cases. 3,051,130, 8–28–62, Cl. 150—28.
Morris, Rupert C.: *See*—
Ferrante, Gerald R., and Morris. 3,041,183.
Morris, Rupert C., and A. L. Rocklin, to Shell Oil Co. Hydroxybenzyl alcohol production. 3,030,428, 4–17–62, Cl. 260—624.
Morris, Thomas C.: *See*—
Phillips, Ferdinand N., Jr., Morris, and Chaplick. 3,020,169.
Morris, Thomas L. Welding jig. 3,030,903, 4–24–62, Cl. 113—102.
Morris, Victor S., to Her Majesty the Queen in the right of Canada, as represented by the Minister of National Defence. Radially free support for combustion chamber fuel manifold. 3,027,715, 4–3–62, Cl. 60—39.32.
Morris, Wheeler, & Co., Inc.: *See*—
Spodobalski, Joseph W. 3,022,684.
Morris, William. Condiment holder. 3,042,085, 7–3–62, Cl. 141—353.
Morris, William B. Lever operated rifle with firing mechanism on the lever. 3,034,243, 5–15–62, Cl. 42—70.
Morris, William H., and J. H. Hopkins, to Minister of Aviation, in Her Majesty's Government of the United Kingdom of Great Britain and Northern Ireland. Manufacture of trinitrotoluene. 3,043,885, 7–10–62, Cl. 260—645.
Morrison, Milton J.: *See*—
Jess, Thurman S., Morrisette, and Poitras. 3,064,802.
Morrison, Albert R.: *See*—
Morgan, Willard L., Morrison, and Shannon. 3,062,682.
Slayter, Games, Morgan, Morrison, and Shannon. 3,050,427.
Morrison, Charles G.: *See*—
Jacobitti, Edward, James, Morrison, and Newsom. 3,025,357.
Morgan, Willard L., Morrison, and Shannon. 3,025,202.
Morrison, Charles L., and H. H. Denison, to Deere & Co. Header for harvesting castor beans. 3,030,756, 4–24–62, Cl. 56—19.
Morrison, Charles S., and M. W. Forth, to Deere & Co. Bale-handling apparatus. 3,043,418, 7–10–62, Cl. 198—128.
Morrison, Clyde A.: *See*—
Kosaryiants, Nick, and Morrison. 3,041,524.
Morrison, Daniel L. Pipe ditching and laying apparatus. 3,023,586, 3–6–62, Cl. 61—72.1.
Morrison, David, and G. P. Postell, to General Time Corp. Clock housing. 3,025,663, 3–20–62, Cl. 58—54.
Morrison, David, and R. C. Robinson, to General Time Corp. Alarm clock. 3,039,260, 6–19–62, Cl. 58—21.12.
Morrison, David, and G. P. Postell, to General Time Corp. Clock controlled switch. 3,068,331, 12–11–62, Cl. 200—38.
Morrison, David, Jr. Lock. 3,018,651, 1–30–62, Cl. 70—146.
Morrison, David K. Filter. 3,053,392, 9–11–62, Cl. 210—391.
Morrison, David K. Fluid apparatus and method of manufacture. 3,053,394, 9–11–62, Cl. 210—488.
Morrison, Donald R., to C. P. Clare & Co. Switching assembly. 3,031,550, 4–24–62, Cl. 200—87.
Morrison, George H., and F. C. Palilla, to General Telephone and Electronics Laboratories, Inc. Electroluminescent phosphors. 3,031,414, 4–24–62, Cl. 252—301.6.
Morrison, George H., and F. C. Palilla, to Sylvania Electric Products Inc. Electroluminescent phosphor and process for making same. 3,031,415, 4–24–62, Cl. 252—301.6.
Morrison, George H., and F. C. Palilla, to Sylvania Electric Products Inc. White emitting electroluminescent phosphor mixture. 3,031,416, 4–24–62, Cl. 252—301.6.
Morrison, Glenn C., and W. O. Fugate, to American Cyanamid Co. Thermal cracking of α,β-dichloropropionitrile. 3,069,458, 12–18–62, Cl. 260—465.7.
Morrison, Grace F. P.: *See*—
Morrison, Joseph I. 3,037,317.
Morrison, Joseph I. and G. F. 3,053,060.
Morrison, Guy E., and C. R. Williams, to General Instrument Corp. Typewriter input coupler. 3,045,795, 7–24–62, Cl. 197—20.
Morrison, Harold J.: *See*—
Jewett, John E., Moothart, Morrison, and Snow. 3,015,800.
Morrison, Howard J. Picture hanger. 3,063,666, 11–13–62, Cl. 248—31.
Morrison, Hugh S. Shore head. 3,070,341, 12–25–62, Cl. 248—357.
Morrison, James G., to Martin-Marietta Corp., Stoner-Mudge Co. Division. Polyglycidyl ethers of ether anhydro hexitols, method of production, and aqueous solutions thereof. 3,041,300, 6–26–62, Cl. 260—29.2.
Morrison, James L., and P. D. Wenzel, to J. I. Case Co. Rake tooth assembly. 3,026,667, 3–27–62, Cl. 56—400.
Morrison, James L. D. Hot beverage-making device. 3,024,718, 3–13–62, Cl. 99—275.
Morrison, James L. D. Hot beverage dispenser. 3,069,999, 12–25–62, Cl. 99—279.
Morrison, John A., E. Schickler, and T. W. Schmidt, to Boeing Airplane Co. Latch mechanism. 3,070,395, 12–25–62, Cl. 292—113.
Morrison, John A., Jr.: *See*—
Jones, Hal J., and Morrison. 3,018,962.
Morrison, Joseph I., deceased; G. F. Morrison and J. O. Levinson, executors. Line releasing device. 3,037,317, 6–5–62, Cl. 43—43.12.
Morrison, Joseph I., deceased; G. F. Morrison, and J. O. Levinson, executors. Ice-forming and ice-melting cooling system. 3,053,060, 9–11–62, Cl. 62—435.
Morrison, Marks O. Hose coupling apparatus. 3,048,212, 8–7–62, Cl. 153—1.
Morrison, Percival H., and P. J. Packman, to Leeford (London) Ltd. Apparatus for supporting land working or other tools on a tractor. 3,019,923, 2–6–62, Cl. 214—140.

Morrison, Robert F., to General Dynamics Corp. Coaxial transfer switch. 3,028,563, 4–3–62, Cl. 333—7.

Morrison, Robert M.: *See*—
Hawkes, Ralph O. and H. G., Morrison, and Sirles 3,017,997.

Morrison, Robert W.: *See*—
Goslin, Thomas P., and Morrison. 3,036,769.
Whittemore, Harold E., and Morrison. 3,055,483.

Morrison, Stanley R., to Minneapolis-Honeywell Regulator Co. Asymmetrically conductive device employing semiconductors. 3,021,433, 2–13–62, Cl. 307—88.5.

Morrison, Walter: *See*—
Blake, Edward J., and Morrison. 3,065,173.
Blake, Edward J., and Morrison. 3,065,174.
Blake, Edward J., and Morrison. 3,065,175.
Blake, Edward J., and Morrison. 3,065,176.

Morrison, Walter F., Spectacle frame mount. 3,049,053, 8–14–62, Cl. 88—41.

Morrison, Willard L., to Conch International Methane Ltd. Insulated tank for storage and transportation of low boiling liquefied gas. 3,019,937, 2–6–62, Cl. 220—65.

Morrison, Willard L., to Liquefreeze Co., Inc. Method and apparatus for freezing cooked foods. 3,022,636, 2–27–62, Cl. 62—64.

Morrison, Willard L., to Liquefreeze Co., Inc. Method and apparatus for freezing perishable material. 3,022,637, 2–27–62, Cl. 62—64.

Morrison, Willard L., to Liquefreeze Co., Inc. Method of and apparatus for chilling foodstuffs and the like. 3,023,588, 3–6–62, Cl. 62—64.

Morrison, Willard L., to Liquefreeze Co., Inc. Insulated shipper container. 3,029,967, 4–17–62, Cl. 220—9.

Morrison, Willard L., to Liquefreeze Co., Inc. Bulk freezer. 3,058,289, 10–16–62, Cl. 62—64.

Morrison, Willard L., to Liquefreeze Co., Inc. Method of assembling an insulated shipper container. 3,044,161, 7–17–62, Cl. 29—445.

Morrison, Willard L., to Liquefreeze Co., Inc. Apparatus for freezing food. 3,048,989, 8–14–62, Cl. 62—375.

Morrison, Willard L., to Conch International Methane Ltd. Apparatus storing cold liquids and method of making such apparatus. 3,055,532, 9–25–62, Cl. 220—22.

Morrison, Willard L., to Liquefreeze Co., Inc. Method of preparing bacon. 3,055,760, 9–25–62, Cl. 99—194.

Morrison, Willard L., to Liquefreeze Co., Inc. Inflatable insulating mattress. 3,063,067, 11–13–62, Cl. 5—350.

Morrison, Willard L., to Liquefreeze Co., Inc. Method of shipping frozen food. 3,063,248, 11–13–62, Cl. 62—64.

Morrison, Willard L., to Liquefreeze Co., Inc. Method of preparing a frozen food product. 3,068,105, 12–11–62, Cl. 99—136.

Morrison, Willard L., to Liquefreeze Co., Inc. Method and apparatus for chilling, storing and shipping edible material. 3,069,865, 12–25–62, Cl. 62—64.

Morrison, William A., to Ingersoll-Rand Co. Percussive rock drill. 3,055,441, 9–25–62, Cl. 175—139.

Morrison, William A., to Ingersoll-Rand Co. Feed controlling device for rock drilling mechanisms. 3,064,741, 11–20–62, Cl. 175—124.

Morrison, William A., and E. H. Kurt, to Ingersoll-Rand Co. Compressed gas system. 3,055,647, 9–25–62, Cl. 262—1.

Morrison, William E.: *See*—
Jenn, Louis J., and Morrison. 3,016,003.

Morrison, William M., to Turner Mfg. Co. Ltd. Hydraulic ram and selector mechanism. 3,044,451, 7–17–62, Cl. 121—41.

Morrison, William M. M., to Turner Mfg. Co., Ltd. Fluid control valve assemblies. 3,038,497, 6–12–62, Cl. 137—622.

Morriss, Francis V., and A. F. Meiners, to Standard Oil Co. Gas analysis. 3,061,414, 10–30–62, Cl. 23—232.

Morriss, Reuben M., Jr., and R. G. Van Allen, to Wood Treating Chemicals Co. Wood preservation composition and method. 3,061,508, 10–30–62, Cl. 167—42.

Morrissey, Jerome K. Sewing machine and method. 3,066,628, 12–4–62, Cl. 112—260.

Morrissey, John J. Cross chain end clip. 3,046,630, 7–31–62, Cl. 24—236.

Morrissey, William J., to General Electric Co. Ceramic material and method of making the same. 3,022,179, 2–20–62, Cl. 106—39.

Morrissey, William J., and J. W. Roy, to General Electric Co. Ceramic material and method of making the same. 3,022,180, 2–20–62, Cl. 106—39.

Morrissey, William M., Jr., to General Electric Co. Refrigerator door shelf arrangement. 3,029,953, 4–17–62, Cl. 211—147.

Morrow, Andrew S., A. G. Brewer, and M. A. Torbin, to Shell Oil Co. Glass mold lubricant. 3,052,629, 9–4–62, Cl. 252—29.

Morrow, Carlos C.: *See*—
Morrow, David W. and C. C. 3,016,172.

Morrow, David W. and C. C. Container closure. 3,016,172, 1–9–62, Cl. 222—490.

Morrow, Donald G., to Hercules Powder Co. Manufacture of dinitrogen textroxide 3,063,804, 11–13–62, Cl. 23—162.

Morrow, Earle L. Binding device with contracting segments having radius smaller than rod engaged thereby. 3,058,386, 10–16–62, Cl. 85—36.

Morrow, Forrest M.: *See*—
Oganowski, Kasimir, and Morrow. 3,016,041.

Morrow, Harry C., to United States Steel Corp. Apparatus for automatically centering a moving object. 3,029,655, 4–17–62, Cl. 74—241.

Morrow, Harry C., to United States Steel Corp. Apparatus for continuously centering a moving strip. 3,032,248, 5–1–62, Cl. 226—189.

Morrow, Harry C., to United States Steel Corp. Troughed belt conveyor. 3,043,419, 7–10–62, Cl. 198—192.

Morrow, James E., and J. N. Boyle, to Tektronix, Inc. Support device. 3,022,973, 2–27–62, Cl. 248—223.

Morrow, James W. Fan drive and mounting. 3,033,049, 5–8–62, Cl. 74—209.

Morrow, John, Jr. Expansion-type grapple for lifting and carrying loads. 3,033,605, 5–8–62, Cl. 294—97.

Morrow, Joseph H.: *See*—
Markle, Harry A., Jr., and Morrow. 3,016,849.

Morrow, Joseph H., to Fuller Co. Fluidizing conveying apparatus. 3,024,071, 3–6–62, Cl. 302—29.

Morrow, Morris R.: *See*—
Gordon, Charles W., Manne, and Morrow. 3,052,625.

Morrow, Morris R., and A. D. Suttle, Jr., to Esso Research and Engineering Co. Radioactive ionizer for a combination chamber. 3,040,874, 8–21–62, Cl. 60—35.6.

Morrow, Morris R., J. A. Snyder, and L. D. Howell, Sr., to Jersey Production Research Co. Treatment of wells. 3,065,171, 11–20–62, Cl. 252—8.55.

Morrow Products, Inc.: *See*—
Morrow, Robert D. 3,058,389.

Morrow, Robert, Jr.: *See*—
Emery, John R., and Morrow. 3,026,242.

Morrow, Robert D. Radio antenna. 3,051,903, 8–28–62, Cl. 325—373.

Morrow, Robert D., to Morrow Products, Inc. Photometers. 3,058,389, 10–16–62, Cl. 88—23.

Morrow, Thomas D.: *See*—
Sanderson, Carl C. 3,050,923.

Morrow, Warren P., to United States of America, Army. Actuator for triggering system. 3,062,071, 11–6–62, Cl. 74—470.

Morrow, William S. Geared hoist or puller. 3,054,597, 9–18–62, Cl. 254—161.

Morsch, Jesse J. Can punch. 3,057,060, 10–9–62, Cl. 30—6.1.

Morschel, Heinrich: *See*—
Muller, Karl E., Holtschmidt, Morschel, and Braun. 3,026,275.

Morschel, Heinrich, and G. Loew, ½ to Farbenfabriken Bayer Aktiengesellschaft and ½ to Mobay Chemical Co. Cellular polyurethane plastic and method of preparing same. 3,022,255, 2–20–62, Cl. 260—2.5.

Morschel, Heinrich, and H.-W. Kauczor, to Farbenfabriken Bayer Aktiengesellschaft. Hydraulic oil compositions. 3,056,745, 10–2–62, Cl. 252—78.

Morse, Allan R.: *See*—
McKinley, Donald W. R., Kusters, and Morse. 3,066,284.

Morse Chain Co.: *See*—
Hein, Charles E. 3,036,445.

Morse, Charles H.: *See*—
Leek, Wayne E., and Morse. 3,023,527.

Morse, Charles L. Oven construction. 3,016,276, 1–9–62, Cl. 312—274.

Morse, Edward P., to Northrop Corp. Phase detector having negative feedback for null rebalancing. 3,016,491, 1–9–62, Cl. 329—50.

Morse, Glenn B., to C. I. Williams. Drive-sleeve coupling for overlapped threaded rods. 3,039,800, 6–19–62, Cl. 287—62.

Morse, James O.: *See*—
Huggins, Homer D., Morse, and Dolister. 3,045,979.

Morse, Joe V.: *See*—
Pistole, Harry, True, Pitts, Morse, McFarland, and Boer. 3,040,811.

Morse, John B., and F. C. Benson, to The H. B. Ives Co. Wall bumper. 3,053,770, 8–28–62, Cl. 16—86.

Morse, John F. Single lever control unit. 3,023,869, 3–6–62, Cl. 192—.096.

Morse, John F. Single lever control unit. 3,043,159, 7–10–62, Cl. 74—472.

Morse, Lyman E., to United States of America, Atomic Energy Commission. Catalytic recombination of radiolytic gases in thorium oxide slurries. 3,048,474, 8–7–62, Cl. 23—204.

Morse, Milton. Multiposition molded grounding electrical plug. 3,061,809, 10–30–62, Cl. 339—14.

Morse, Raymond L.: *See*—
Carter, Paul H., and Morse. 3,058,617.

Morse, Raymond L., to Universal Machine Co., Inc., and Joseph Shapiro. Stripper and feeder unit. 3,028,029, 4–3–62, Cl. 214—310.

Morse, Robert J., to Bendix-Westinghouse Automotive Air Brake Co. Relay emergency valve. 3,059,975, 10–23–62, Cl. 303—29.

Morse, Ronald W.: *See*—
Gaquin, John H., and Morse. 3,068,130.

Morse, Ronald W., and J. H. Gaquin, to Beckwith-Arden Inc. Conditioning machine for box toe blanks. 3,027,867, 4–3–62, Cl. 118—109.

Morse, Stewart W., Jr.: *See*—
McConnell, Albert L., and Morse. 3,070,462.

Morse, William H.: *See*—
De Paul, Alseno S., Gueck, and Morse. 3,064,152.

Morse, William L., to Pre-Controls, Inc. Mobile toy vehicle 3,050,904, 8–28–62, Cl. 46—213.

Morse, William L., to Pre-Controls, Inc. Power means for boats. 3,066,441, 12–4–62, Cl. 46—95.

Mort, David, and C. H. Jennings, to Westinghouse Electric Corp. X-ray apparatus. 3,030,508, 4–17–62, Cl. 250—57.
Mortara, Holy, to Cole Vending Industries, Inc. Dispenser canisters. 3,053,423, 9–11–62, Cl. 222—567.
Mortara, Holy, to Cole Vending Industries, Inc. Cup dispensers. 3,053,599, 9–11–62, Cl. 312—43.
Mortberg, Richard E.: *See*—
Downing, Richard M., Mortberg, and Smith. 3,016,576.
Mortenson, Oscar W. Roll holder. 3,050,268, 8–21–62, Cl. 242—55.53.
Mortimer, Donald C., and R. L. Seidenberg, to Bausch & Lomb Inc. Variable power optical system for microscopes. 3,030,861, 4–24–62, Cl. 88—57.
Mortimer, Noel R. F., to Vokes Ltd. Tobacco processing machinery. 3,046,998, 7–31–62, Cl. 131—146.
Mortlock, James O.: *See*—
Wilde, Geoffrey L., and Mortlock. 3,033,493.
Morton, Avery A., J. B. Littlefield, and W. D. Mecum, to American Brake Shoe Co. Sulphur-containing heat-resistant resins. 3,047,543, 7–31–62, Cl. 260—79.
Morton, Calvin L. Retractable container and emptying tray therefor. 3,038,629, 6–12–62, Cl. 220—18.
Morton, Charles R., G. J. Horitz, and N. J. Nicholas, to National Research & Development Corp. Semi-solid rocket fuel with aluminum naphthenate containing about 7% combined aluminum. 3,023,094, 2–27–62, Cl. 149—18.
Morton, David C.: *See*—
Packman, Percival J., and Morton. 3,068,989.
Morton, David C., and P. J. Packman, to Packman Machinery Ltd. Method and apparatus for handling biscuits and the like. 3,037,610, 6–5–62, Cl. 198—40.
Morton, Ernest T.: *See*—
Powell, Lebern, and Morton. 3,039,120.
Morton, Eugene A., and D. G. Brant, to Basic Inc. Control system for molding presses. 3,044,139, 7–17–62, Cl. 25—45.
Morton, Glen R. Carburetor and means for controlling the same. 3,021,123, 2–13–62, Cl. 261—39.
Morton, Glen R. Carburetor for internal combustion engines 3,022,984, 2–27–62, Cl. 261—27.
Morton, Glen R. Die casting machine plunger tip. 3,046,-621, 7–31–62, Cl. 22—68.
Morton, Harold S.: *See*—
Welanetz, Ludolph F., Johnston, and Morton. 3,034,351.
Morton, Henry C.: *See*—
Runton, Leslie A., and Morton. 3,026,806.
Runton, Leslie A., Morton, and Rasero. 3,053,592.
Morton, Henry C., to The Russell Mfg. Co. Clutch facing. 3,068,131, 12–11–62, Cl. 154—52.
Morton, James F.: *See*—
Wenman, William A., and Morton. 3,018,365.
Morton, Lester C., to National Distillers and Chemical Corp. Pressure gauge. 3,068,703, 12–18–62, Cl. 73—419.
Morton, Maurice, and A. Rembaum, to The University of Akron, The Board of Directors. Organosiloxane polymers containing polydiene blocks. 3,051,684, 8–28–62, Cl. 260—46.5.
Morton, Paul D.: *See*—
Koblitz, Francis F., and Morton. 3,057,928.
Morton, Peter H.: *See*—
Fentiman, William P., Ames, Morton, and Mead. 3,049,-425.
Morton, Robert C., to California Computer Products, Inc. Incandescent lamp light switch arrangement. 3,028,525, 4–3–62, Cl. 315—272.
Morton, Robert C., to California Computer Products, Inc. Automatic light control for incandescent lamps. 3,047,-773, 7–31–62, Cl. 315—205.
Morton Salt Co.: *See*—
Hagen, Kenneth R. 3,036,746.
Hallberg, Rolf A. O. 3,064,948.
Heath, Donald M. 3,062,228.
Morton, William D. Jr. Quick release mechanism. 3,038,229, 6–12–62, Cl. 24—206.
Morton, William D., Jr., and O. W. Wilcox, to Sierra Engineering Co. Oxygen mask and helmet retention assembly. 3,035,573, 5–22–62, Cl. 128—141.
Morway, Arnold J.: *See*—
Lippincott, Samuel B., and Morway. 3,060,120.
Sanders, Hiram R., Jr., and Morway. 3,036,901.
Morway, Arnold J., C. R. Daniels, and R. P. Spray, to Esso Research and Engineering Co. Process for making an improved lubricant containing salts of carboxylic acids. 3,018,249, 1–23–62, Cl. 252—39.
Morway, Arnold J., and C. R. Daniels, to Esso Research and Engineering Co. Mixed salt lubricant compositions having improved base oils. 3,033,787, 5–8–62, Cl. 252—39.
Morway, Arnold J., and J. H. Bartlett, to Esso Research and Engineering Co. Grease compositions containing soaps of alkoxy and alkyl mercapto hydroxy fatty acids. 3,036,-970, 5–29–62, Cl. 252—33.6.
Morway, Arnold J., J. H. Bartlett, and C. W. Muessig, to Esso Research and Engineering Co. Lubricating oil containing metal salts derived from hydrogenated bridged phenols and low molecular weight acids. 3,044,960, 7–17–62, Cl. 252—35.
Morway, Arnold J., J. C. Munday, J. H. Bartlett, and C. W. Muessig, to Esso Research and Engineering Co. Metal salts of bridged phenols and low molecular weight acids. 3,044,-961, 7–17–62, Cl. 252—37.2.
Morway, Arnold J., and J. C. Munday, to Esso Research and Engineering Co. Metal salts of phenols and low molecular weight acids. 3,065,179, 11–20–62, Cl. 252—39.
Mory, Rudolf: *See*—
Frey, Christoph, Mory, and Moser. 3,036,071.
Mory, Rudolf, and C. Frey, to Ciba Ltd. Dioxazine dyestuffs. 3,022,298, 2–20–62, Cl. 260—246.
Mosaic Tile Co., The: *See*—
Klein, Harold L. 3,033,739.
Macdonald, Herbert G., Barbour, and Claus. 3,041,785.
Mays, Howard D., Moore, and Claus. 3,036,355.
Mosbach, Gruber & Co., G.m.b.H.: *See*—
Kommer, Jakob. 3,048,209.
Mosbacher, Bruce H., to Roper Hydraulics, Inc. Hydraulically operated clutch. 3,016,121, 1–9–62, Cl. 192—91.
Mosbacher, Bruce H., to Roper Hydraulics, Inc. Lube pumping system. 3,045,778, 7–24–62, Cl. 184—6.
Mosby, William L.: *See*—
Boyle, Richard J., Birsten, and Mosby. 3,047,575.
Mosca, Americo. Aluminum fungicide. 3,048,516, 8–7–62, Cl. 167—14.
Moschino, Mario. Bass section for accordion or the like. 3,067,645, 12–11–62, Cl. 84—376.
Moscrip, Arthur D., to Sun Oil Co. Purifying phthalic acids. 3,020,312, 2–6–62, Cl. 260—524.
Moscrip, Arthur D., to Sun Oil Co. Precipitation of atactic olefin polymer in the presence of carbon black. 3,060,145, 10–23–62, Cl. 260—41.
Moseley, F. L., Co.: *See*—
Moseley, Francis L., and Holdo. 3,050,669.
Moseley, Francis L., and A. O. Holdo, to F. L. Moseley Co. Optical curve following servomotor control system. 3,050,-669, 8–21–62, Cl. 318—31.
Moseley, Francis L., and G. R. Whiteley, to F. L. Moseley Co. Graphical recorders. 3,052,884, 9–4–62, Cl. 346—29.
Moseley, James T. W., to Holley Carburetor Co. Carburetors for internal combustion engines. 3,035,601, 5–22–62, Cl. 137—266.
Moseley, John C.: *See*—
Moseley, Francis L., and Whiteley. 3,052,884.
Watt, William A. L., and Moseley. 3,063,819.
Moseley, John C., G. Ellis, E. J. Hayward, and A. C. Houston, to Shell Oil Co. Low ash polyoxyalkylene compounds and their preparation. 3,030,426, 4–17–62, Cl. 260—615.
Moseley, Kemper N. Lumber sorter. 3,027,007, 3–27–62, Cl. 209—80.
Mosely, Arthur C., to Compression Joints Ltd. Compression pipe fittings. 3,025,086, 3–13–62, Cl. 285—250.
Mosely, Grover C. Bathing device. 3,042,949, 7–10–62, Cl. 15—21.
Mosely, Neal J., to The Pure Oil Co. Treating geological formation to improve flow of oil. 3,047,066, 7–31–62, Cl. 166—32.
Mosen, Donald W., to Crown Zellerbach Corp. Cant accumulator for paper converting machines. 3,016,780, 1–16–62, Cl. 83—417.
Moser, Albert W.: *See*—
Muller, Alex C. 3,029,721.
Moser, Carl M., to John C. Virden Co. Recessed lighting fixture. 3,059,106, 10–16–62, Cl. 240—78.
Moser, Eduard: *See*—
Frey, Christoph, Mory, and Moser. 3,036,071.
Moser, Eduard, to Ciba Ltd. Pyrrocoline dyestuffs. 3,057,-847, 10–9–62, Cl. 260—156.
Moser, Eduard, to Ciba Ltd. New dyestuffs. 3,057,870, 10–9–62, Cl. 260—295.
Moser, Eduard, to Ciba Ltd. New dyestuffs. 3,057,871, 10–9–62, Cl. 260—295.
Moser, Frank H., and J. D. Stepp, to Standard Ultramarine & Color Co. Non-crystallizing phthalocyanine coloring matters. 3,024,247, 3–6–62, Cl. 260—314.5.
Moser, Frank T., to Mister Softee, Inc. Ice cream mix control. 3,019,615, 2–6–62, Cl. 62—132.
Moser, Henry W., W. Grobman, and E. O. P. Eskilson, to Samuel M. Langston Co. Ink fountains for rotary printing presses. 3,041,968, 7–3–62, Cl. 101—365.
Moser, Henry W., T. H. Paris, and J. R. Paterson, to Samuel M. Langston Co. Mill roll stand. 3,047,249, 7–31–62, Cl. 242—75.43.
Moser, Henry W., W. J. Emerson, and I. Kestenbaum, to Samuel M. Langston Co. Splined lifting tube. 3,052,422, 9–4–62, Cl. 242—68.4.
Moser, John F., Jr., to Esso Research and Engineering Co. Seed coke production in fluid coking systems. 3,022,246, 2–20–62, Cl. 208—127.
Moser, Karl K.: *See*—
Eisbein, Walter T. E., and Moser. 3,069,990.
Moser, Karl K., to Develop Kommanditgesellschaft Dr. Eisbein & Co. Automatic copying apparatus. 3,031,941, 5–1–62, Cl. 95—75.
Moser, Paul M., to United States of America, Navy. Continuous reading free nuclear precession magnetometer and method. 3,024,410, 3–6–62, Cl. 324—.5.
Moser, Richard: *See*—
Burckhardt, Christof, Moser, and Baumann. 3,048,818.
Moser, Richard, A. Thalmann, and J. Baumann, to Schweizerische Wagons- und Aufzugefabrik A.-G. Safety device for an elevator door. 3,054,475, 9–18–62, Cl. 187—48.
Moser, Richard, and M. Etter, to Schweizerische Wagons- und Aufzugefabrik A.-G. Schlieren-Zurich. Control system for elevators. 3,056,470, 10–2–62, Cl. 187—31.
Moser, Robert L.: *See*—
McAfee, Robert E., Eddy, and Moser. 3,065,822.

Moser, Vincent J., and B. B. Kine, to Rohm & Haas Co. Bonded non-woven fibrous products. 3,015,595, 1–2–62, Cl. 154—46.
Moseres, Nestor E. Fluid pressure responsive switch in fluid flow systems. 3,070,676, 12–25–62, Cl. 200—81.9.
Moses, Edmund Q.: *See*—
Thatcher, Charles J., and Moses. 3,031,804.
Moses, Orton E. Fishing rod signal device. 3,057,105, 10–9–62, Cl. 43—16.
Moses, Walter J., to The Lakso Co., Inc. Inverted cottoning. 3,030,748, 4–24–62, Cl. 53—115.
Moses, William, to S. B. Penick and Co. Neomycin fermentation process. 3,022,228, 2–20–62, Cl. 195—80.
Mosesman, Max A., to Esso Research and Engineering Co. Process for regenerating and reactivating platinum catalyst in a reforming process. 3,069,352, 12–18–62, Cl. 208—140.
Mosey, Frederick W., O. V. Langford, and J. Wild, to Seal-Less Strapping Ltd. Apparatus for tensioning flexible binding material around packages and the like. 3,035,814, 5–22–62, Cl. 254—51.
Mosher, Hugh H. Fire retardant nylon fabric and method of producing the same. 3,017,292, 1–16–62, Cl. 117—137.
Mosher, Hugh H., to Arkansas Co., Inc. Textile finishing procedures and compositions. 3,055,773, 9–25–62, Cl. 117—141.
Mosher, James K., to Schulz Tool and Mfg. Co. In flight refueling apparatus for aircraft. 3,067,972, 12–11–62, Cl. 244—135.
Mosher, Richard K., and A. B. Wight, to Laboratory For Electronics, Inc. Radar guidance techniques. 3,047,856, 7–31–62, Cl. 343—5.
Mosher, Robert A., to Standard Oil Co. Temperature rise retardation of surfaces exposed to heat. 3,056,260, 10–2–62, Cl. 60—39.47.
Mosher, Robert A., and R. H. Ossyra, to Standard Oil Co. Temperature rise retardation of surface exposed to heat. 3,060,687, 10–30–62, Cl. 60—39.47.
Mosher, Walter W., Jr.: *See*—
Goldammer, Arthur R., Long, and Mosher. 3,059,359.
Mosier, Benjamin, to Jersey Production Research Co. Lubrication of metallic surfaces. 3,064,757, 11–20–62, Cl. 184—1.
Mosier, Kenneth C. Air valve. 3,036,589, 5–29–62, Cl. 137—270.
Mosimann, Hans, and W. Lutz, to Schweizerische Isola-Werke. Metal salt-amine complex and process for preparing polyester resin composition therewith. 3,058,948, 10–16–62, Cl. 260—44.
Mosjoshusmann, Erwin: *See*—
Hotop, Werner, Meese, Mosjoshusmann, Bohle, and Ginzel. 3,039,390.
Moskovitz, Milton A., ½ to H. Frankel. Seal. 3,021,157, 2–13–62, Cl. 287—90.
Moskovitz, Milton A., ½ to H. Frankel. Ball joint assembly. 3,024,050, 3–6–62, Cl. 287—90.
Moskovitz, Milton A. Accessory for a fluid dispenser. 3,031,104, 4–24–62, Cl. 222—94.
Mosle, Ernst, to Machine Tool Works Oerlikon, Administration Co. Magazine container for automatic fire arms. 3,045,553, 7–24–62, Cl. 89—33.
Mosler Research Products, Inc.: *See*—
Hansen, Donald E. 3,047,849.
Schmidt, Kenneth H. 3,041,592.
Schmidt, Kenneth H. 3,047,850.
Mosler Safe Co., The: *See*—
Handel, Siegfried K. 3,059,984.
Maynard, Robert W. 3,038,325.
Price, Charles D. 3,015,342.
Mosley, Fred E. Metal severing device. 3,049,274, 8–14–62, Cl. 225—97.
Moslo, Ernest P. Container with transparent windows. 3,017,987, 1–23–62, Cl. 206—45.31.
Moss, Charles W. Sand box and shelter structure. 3,020,045, 2–6–62, Cl. 272—1.
Moss, Charles W. Portable shelter. 3,043,320, 7–10–62, Cl. 135—1.
Moss, Charles W. Flexible hyperbolic paraboloid shelter. 3,060,949, 10–30–62, Cl. 135—1.
Moss, Charles W. Carrying cases. 3,061,157, 10–30–62, Cl. 224—42.01.
Moss, Charles W. Portable shelter. 3,062,250, 9–4–62, Cl. 135—1.
Moss, Charlotte F.: *See*—
Moss, Harry G. 3,053,537.
Moss, Clyde E.: *See*—
Sherrill, Price E., and Moss. 3,018,605.
Moss, Edgar E., to Engelhorn Development Corp. Animal restraining systems. 3,027,594, 4–3–62, Cl. 17—15.
Moss, Ennis E., Sr.: *See*—
Schwartz, Robert C., and Moss. 3,049,763.
Moss, Frank A. J.: *See*—
Ruhoff, John R., Towle, Moss, and Terry. 3,029,131.
Moss, Harry G., ½ to G. R. Sperling, and ½ to C. F. Moss. Game. 3,053,537, 9–11–62, Cl. 273—137.
Moss, Hilary, to Burrough Corp. Character display system. 3,033,446, 5–8–62, Cl. 235—23.
Moss, Hilary, to Burroughs Corp. Electrographic printing tube having filamentary conductive target. 3,041,611, 6–26–62, Cl. 346—74.
Moss, James R., E. T. Koch, Jr., and J. E. Stevens, Jr., to Seco, Inc. Feed mixer. 3,021,121, 2–13–62, Cl. 259—97.
Moss, John, to E. I. du Pont de Nemours and Co. Blending wax with an ethylenevinyl acetate copolymer. 3,048,553, 8–7–62, Cl. 260—28.5.
Moss, Lloyd E. Combination track lifting and ballast removing machine. 3,055,309, 9–25–62, Cl. 104—7.
Moss, Norman, and M. J. Broad, to The Plessey Co. Ltd. Governor-controlled hydraulic systems. 3,037,353, 6–5–62, Cl. 60—52.
Moss, Norman, and M. J. Broad, to The Plessey Co. Ltd. Reed-type governors. 3,040,761, 6–26–62, Cl. 137—56.
Moss, Philip H., to Jefferson Chemical Co., Inc. Preparation of unsaturated compounds. 3,020,290, 2–6–62, Cl. 260—340.2.
Moss, Philip H., to Jefferson Chemical Co., Inc. Process for the preparation of piperazines. 3,068,232, 12–11–62, Cl. 260—268.
Moss, Philip H., to Jefferson Chemical Co., Inc. Method for preparing N, N'-dimethyltriethylene-diammonium dinitrate and homologues thereof. 3,068,233, 12–11–62, Cl. 260—268.
Moss, Philip H., and N. B. Godfrey, to Jefferson Chemical Co., Inc. Process for preparation of piperazine. 3,037,-023, 5–29–62, Cl. 260—268.
Moss, Robert F., to Toledo Scale Corp. Weighing scale. 3,068,947, 12–18–62, Cl. 177—171.
Moss, Trevor F.: *See*—
Jackson, Harold E., and Moss. 3,021,571.
Mossbarger, David W.: *See*—
Timmer, David J., Philbrick, Mossbarger, and Caton. 3,022,432.
Mossberg, Carl W. Liquid cooled counter-boring tool. 3,028,-772, 4–10–62, Cl. 77—58.
Mossberg, Carl W. Coolant type milling cutter (convertible side and end cutter). 3,037,264, 6–5–62, Cl. 29—106.
Mossberg, Karl E., to Aktiebolaget Calor & Sjogren. Automatic control of the concentration in suspensions such as cellulose, paper pulp, and the like. 3,017,767, 1–23–62, Cl. 73—54.
Mosse, Richard W. E., to The Metal Box Co. Ltd. Can wrapping machines. 3,031,812, 5–1–62, Cl. 53—128.
Mosse, Richard W. E., H. Cookson, P. C. Virgo, and G. D. Miles, to The Metal Box Co. Ltd. Packing machines. 3,058,277, 10–16–62, Cl. 53—284.
Mosse, Robert G. Y. Computing device for correlating and analyzing data on three superimposable data carriers. 3,067,931, 12–11–62, Cl. 235—61.
Mossey, Joseph L., to The Bendix Corp. Automatic adjuster. 3,068,965, 12–18–62, Cl. 188—79.5.
Mossman, Donald P., Inc.: *See*—
Maher, Robert L. 3,024,332.
Mosson, George W., to Hudson Pulp & Paper Corp. Material handling apparatus. 3,021,766, 2–20–62, Cl. 93—8.
Mossor, George W., to Hudson Pulp & Paper Corp. Apparatus for making paper bags. 3,053,150, 9–11–62, Cl. 93—8.
Most, Nathan, to Union Tank Car Co. Spinning reel. 3,054,-571, 9–18–62, Cl. 242—84.2.
Mostik, John. Comb. 3,042,048, 7–3–62, Cl. 132—149.
Mostoller, George, to Edwin G. Smith & Co., Inc. Plastic ventilator. 3,023,864, 3–6–62, Cl. 189—69.
Mote, Julian F.: *See*—
Birula, Lionel J., Mote, and Habib. 3,031,384.
Motec Industries, Inc.: *See*—
Green, Homer H., Radke, and Steingas. 3,043,376.
Machlis, Jerome. 3,019,289.
White, Warren W. 3,018,952.
Mothersole, Peter L., to North American Philips Co., Inc. Automatic gain contro circuit arrangement for television receivers. 3,038,026, 6–5–62, Cl. 178—7.3.
Motion Products Inc.: *See*—
Huber, Mortimer J. 3,059,202.
Motley, Philip. Locating device. 3,039,198, 6–19–62, Cl. 33—174.
Motley, Robert L. Baby rattler with sliding rattles. 3,015,-909, 1–9–62, Cl. 46—193.
Moto Meter Schlaich Hermann: *See*—
Gentner, Kurt. 3,059,180.
Moto-Mower, Inc.: *See*—
Dilnell, Francis R. J. 3,044,315.
Kieffer, Joseph D., III, and Duhamel. 3,047,085.
Wehner, William C. 3,063,436.
Wehner, William C. 3,063,437.
Motor City Spring Co.: *See*—
Trotta, Leonard J. 3,045,865.
Motor-Condensator-Compagnie Schloz K.-G.: *See*—
Lukas, Adam, and Brotl. 3,026,965.
Motor Gear & Engineering Co. Ltd.: *See*—
Grundy, Clifford. 3,044,282.
Motor Industry Research Assn., The: *See*—
Giles, John G. 3,055,233.
Motorenfabrik Hatz, Gesellschaft mit beschrankter Haftung: *See*—
Hatz, Ernst, Jr. 3,057,336.
Motoren-Werke Mannheim AG, vorm. Benz Abt. Stat Motorenbau: *See*—
Benz, Walter, and Linnenkohl. 3,016,886.
Espenschied, Friedrich. 3,058,452.
Henninger, Friedrich. 3,019,596.
Motorola, Inc.: *See*—
Battin, John W. 3,061,785.
Bier, David. 3,037,113.
Bier, David, and Weismann. 3,037,114.
Bierman, Raymond C. 3,042,331.
Birkenes, Bernhard. 3,017,507.
Brewster, Franklin C. 3,064,494.
Byles, Theodore A. 3,059,167.

Motorola, Inc.: *See*—Continued
Cado, Erwin E. 3,042,591.
Crow, Robert P., and Vollink. 3,048,659.
Curtis, Reid H. 3,069,616.
Da Costa, Harry. 3,019,010.
Da Costa, Harry. 3,040,489.
Da Costa, Harry. 3,051,026.
Dickson, Donald C., Jr. 3,017,550.
Di Mucci, Vito A. 3,037,131.
Errichiello, Dominic. 3,048,747.
Fibranz, Floyd B. 3,061,784.
Foecking, Donald A. 3,027,454.
Foudriat, Donald P., Sr. 3,034,930.
Frihart, Henry N., and Krakora. 3,044,016.
Germain, Jack. 3,059,184.
Goncharoff, Nikolai. 3,041,550.
Grimaila, Algert G. 3,068,467.
Johnson, Jerome A., and Madland. 3,070,737.
Karas, Joseph W. 3,024,627.
Kelley, Dale T. 3,060,553.
Kelley, Dale T. 3,061,766.
Kelley, Walter A., and Hummel. 3,027,455.
Kuritza, Oleh M. 3,019,782.
Lindeman, Richard G., and Monaco. 3,069,638.
Mohler, Robert D. 3,069,617.
Morgan, Harvey L. 3,056,046.
Peterson, William D. 3,056,083.
Race, Richard T. 3,020,466.
Rose, Samuel W., Crow, and Kelley. 3,041,507.
Schlesinger, Kurt. 3,058,101.
Silberbach, Richard O. 3,059,109.
Smith, John F. 3,039,081.
Swanson Donald W. 3,052,957.
Taylor, William E., and Kevane. 3,018,539.
Tyzack, Harold. 3,024,35.
Van Ness, Bradford O. 3,069,565.
Volge, Raymond C. 3,049,591.
Weinberg, Morton. 3,068,427.
Wennerberg, Gunnar. 3,031,663.
Wennerberg, Gunnar. 3,031,667.
Worobey, Raymond G., and Errichiello. 3,070,748.
Yost, Russell R., Jr. 3,054,056.

Motozaki, Shinichi, M. Ohno, and K. Fujiwara, to Ajinomoto Co., Inc. Process for recovering glutamic acid from fermentation broth. 3,029,280, 4–10–62, Cl. 260—527.

Motozaki, Shinichi, M. Ohno, and K. Fujiwara, to Ajinomoto Co., Inc. Process for producing glutamic acid from fermentation broth. 3,029,281, 4–10–62, Cl. 260—527.

Motson, James F. Flexible light source. 3,037,137, 5–29–62, Cl. 313—108.

Motson, James F. Light source. 3,037,138, 5–29–62, Cl. 313—108.

Motson, James F. Intense light source. 3,065,369, 11–20–62, Cl. 313—108.

Mott, Alfred H. Collapsible boom for mobile cranes. 3,028,-018, 4–3–62, Cl. 212—59.

Mott, Carl W., to Mott Corp. Blade connection for mowers. 3,043,080, 7–10–62, Cl. 56—294.

Mott Corp.: *See*—
Mott, Carl W. 3,043,080.

Mott, Fred G. Boat. 3,035,283, 5–22–62, Cl. 9—3.

Mott, George R.: *See*—
Rufkus, John, jr., and Mott. 3,062,536.

Mott, Lucille E.: *See*—
Hoberg, George G., Mott, Van Andel, and Weise. 3,053,-449.

Mott, Milton B. Paint pail and brush holder. 3,029,054, 4–10–62, Cl. 248—211.

Mott, Norman S., to Cooper Alloy Corp. Hardenable corrosion resistant stainless steel. 3,044,871, 7–17–62, Cl. 75—125.

Mott, Ralph B., and R. B. Mott, Jr. Dispensing mechanism. 3,058,682, 10–16–62, Cl. 242—55.3.

Mott, Ralph B., Jr.: *See*—
Mott, Ralph B., and R. B. Mott, Jr. 3,058,682.

Mott, Richard C.: *See*—
Mauer, Kenneth H., and Mott. 3,037,702.

Motten, Roger H., Jr., to Marathon Electric Mfg. Corp. Plug connector with switch for auxiliary starting circuit. 3,057,-975, 10–9–62, Cl. 200—51.

Mottin, Ralph E., A. L. Mix, and L. R. Srigley, to Parke, Davis & Co. Conveyor. 3,043,415, 7–10–62, Cl. 198—20.

Mottu, Andre, H. Gassmann, and C. Koechlin, to Societe Genevoise d'Instruments de Physique. Optical positioning system. 3,036,493, 5–29–62, Cl. 88—14.

Mottus, Edward H.: *See*—
Butler, John M., Hedrick, and Mottus. 3,017,392.
Butler, John M., Hedrick, and Mottus. 3,018,273.
Butler, John M., Hedrick, and Mottus. 3,028,369.
McManimie, Robert J., Hurst, and Mottus. 3,065,220.

Mottus, Edward H., R. M. Hedrick, and J. M. Butler, to Monsanto Chemical Co. Preparation of polycaprolactam using N-acyl activators. 3,017,391, 1–16–62, Cl. 260—78.

Mouat, Robert W., to General Electric Co. Electric lamp base. 3,047,829, 7–31–62, Cl. 339—127.

Moubayed, Esber L.: *See*—
Guy, James W., and Ballard. 3,062,369.

Mouchon, Raoul, to International Business Machines Corp. Balanced speed-varying mechanism. 3,033,052, 5–8–62, Cl. 74—393.

Moner, Earl W., to Landis Tool Co. Centerless bar grinder. 3,054,228, 9–18–62, Cl. 51—103.

Moughty, John J.: *See*—
Bartos, John B., Doughman, Ferraris, and Moughty. 3,047,897.

Moul, Morton. Method and device of detecting contamination in fuels. 3,063,289, 11–13–62, Cl. 73—61.

Mould, Harry W., Jr., to Entoleter, Inc. Sifting apparatus. 3,033,370, 5–8–62, Cl. 209—325.

Mould, Harry W., Jr., to Hobam, Inc. Magnetic coupling. 3,045,134, 7–17–62, Cl. 310—106.

Moulds, Gordon M., to E. I. du Pont de Nemours and Co. Crimpable composite filament. 3,038,239, 6–12–62, Cl. 28—82.

Moule, Rex E., and L. E. Fairbanks, to Formsprag Co. Centrifugal clutch. 3,025,939, 3–20–62, Cl. 192—105.

Moulin, Maurice: *See*—
Martin, Roger, and Moulin. 3,025,226.

Moulinage et Retorderie de Chavanoz: *See*—
Stiefenhofer, Louis. 3,020,173.

Moulthrop, Maurice A., and U. J. Schmid, ½ to Creamery Package Mfg. Co. and ½ to Foremost Dairies, Inc. Case stacking and conveying apparatus. 3,057,486, 10–9–62, Cl. 214—6.

Moulton, Alexander E., to Moulton Developments Ltd. Spring suspensions. 3,028,155, 4–3–62, Cl. 267—21.

Moulton Developments Ltd.: *See*—
Moulton, Alexander E. 3,028,155.

Moulton, Lloyd J., to Curtiss-Wright Corp. Sheet or halyard winches. 3,051,445, 8–28–62, Cl. 254—150.

Moulton, Stephen W.: *See*—
Kelper, Francis P., Jr., Chatten, and Moulton. 3,041,392.

Moultrie, Charles W. Vision device for vehicles. 3,043,195, 7–10–62, Cl. 88—70.

Mouly, Raymond J., to Corning Glass Works. Non-contacting tubing gage. 3,027,457, 3–27–62, Cl. 250—83.3.

Mouly, Raymond J., and L. A. J. Zangari, to Corning Glass Works. Automatic control of tube drawing apparatus. 3,035,371, 5–22–62, Cl. 49—17.1.

Mounce, George R.: *See*—
Leaver, Eric W., and Mounce. 3,038,606.

Mounce, George R., and G. H. Kivell, to Electronic Associates Ltd. Console control for coding punched cards. 3,050,242, 8–21–62, Cl. 234—32.

Mounce, Whitman D.: *See*—
Barry, Adelbert, and Mounce. 3,059,695.

Mounce, Whitman D., and E. W. Werts. Arming and sterilizing mechanism for mine systems. 3,030,885, 4–24–62, Cl. 102—18.

Moung, Khin. Picking mechanism for looms for weaving. 3,020,931, 2–13–62, Cl. 139—147.

Mount, Robert H.: *See*—
Wilson, Clifford K., Mount, and Jabbusch. 3,016,936.
Wilson, Clifford K., Mount, and Jabbusch. 3,017,298.
Wilson, Clifford K., Mount, and Jabbusch. 3,024,822.

Mount, Wadsworth W. Fish trap. 3,015,902, 1–9–62, Cl. 43—7.

Mountain Copper Co., Ltd., The: *See*—
Matzinger, Charles P. 3,036,104.

Mountford, Norman D. G.: *See*—
Emblem, Harold G., Mountford, and Morley. 3,051,669.

Mountford, Norman D. G., and C. W. Morley, to Rolls-Royce Ltd. Expendible moulds for patterns in precision casting. 3,042,982, 7–10–62, Cl. 22—193.

Mountjoy, Garrard, to General Motors Corp. Speed control system utilizing frequency change from inductive pickup. 3,018,367, 1–23–62, Cl. 246—182.

Mountjoy, Garrard, to General Motors Corp. Speed control system utilizing frequency change from inductive pickup. 3,018,368, 1–23–62, Cl. 246—182.

Mountjoy, Garrard, to General Motors Corp. Vehicle skid control. 3,029,890, 4–17–62, Cl. 180—79.1.

Mountjoy, Garrard, to General Motors Corp. Automatic vehicle control system. 3,029,892, 4–17–62, Cl. 180—82.1.

Mountjoy, Garrard, to General Motors Corp. Obstacle detection system. 3,052,869, 9–4–62, Cl. 340—38.

Mountjoy, Garrard, and J. D. Reid, to A R & T Electronics, Inc. Coin operated television distribution system. 3,021,383, 2–13–62, Cl. 178—5.1.

Mountjoy, Garrard, and D. Reid, to General Motors Corp. Obstacle detection system. 3,068,448, 12–11–62, Cl. 340—38.

Mount Sinai Hospital (Research Fund): *See*——
Brown, Adolph M. 3,067,106.

Mount Vernon Mills, Inc.: *See*—
Coggin, Charles H. 3,061,906.

Mousted, Edward H.: *See*—
Thompson, Ivan P., and Mousted. 3,062,456.

Moutet, André: *See*—
Barrere, Marcel, and Moutet. 3,021,710.

Movsovic, David J.: *See*—
King, Ralph W., and Movsovic. 3,027,280.

Movsovic, David J., and G. M. Banadive, to Shell Oil Co. Process for preparing metal alkyls. 3,030,401, 4–17–62, Cl. 260—448.

Mowat, John H.: *See*—
Feldman, Louis I., Nielsen, and Mowat. 3,037,914.

Mowatt, Allan Q., to Northrop Corp. Transistor clip, heat sink type. 3,047,648, 7–31–62, Cl. 174—16.

Mowers, Henry D.: *See*—
Cummings, Frederick W., and Mowers. 3,017,688.

Mowery, Jesse R., Jr., and C. B. Zimmerman, to De Walt, Inc. Braking systems for electrical motors. 3,038,109, 6–5–62, Cl. 318—209.

Mowery, Robert W., to Westinghouse Air Brake Co. Computing apparatus. 3,054,892, 9–18–62, Cl. 246—182.

Mowinckel, Johan E.: *See* Laerum, Johan. 3,059,633.

Mowitz, Arnold M.: *See*— Van Kirk, William, Weiss, and Mowitz. 3,057,692.

Moxley, Murray E., to Acme Steel Co. Chair. 3,057,661, 10–9–62, Cl. 297—451.

Moxley, Steve D., Jr., to Continental Oil Co. Quarter-square multiplier and correlator. 3,017,107, 1–16–62, Cl. 235—194.

Moxley, William N. Massage apparatus. 3,050,051, 8–21–62, Cl. 128—33.

Moxley, William N. Massage apparatus. 3,050,352, 8–21–62, Cl. 308—184.

Moxon, Leslie A., to Super Oil Seals & Gaskets Ltd. Sealing device. 3,043,598, 7–10–62, Cl. 277—86.

Moy, George T. N.: *See*— King, Marvin M., and Moy. 3,041,110.

Moy, John A. E., P. T. White, and A. A. Yeo, to British Petroleum Co. Ltd. Production of benzene from a C5 to C7 hydrocarbon fraction. 3,027,413, 3–27–62, Cl. 260—672.

Moy, John A. E., and P. T. White, to The British Petroleum Co. Ltd. Treatment of catalytic reformates. 3,033,777, 5–8–62, Cl. 208—79.

Moy, Paul W., to The Harshaw Chemical Co. Chromium reducer for cyanide plating baths. 3,030,281, 4–17–62, Cl. 204—43.

Moy, Peter C. D. Mobile elevators. 3,051,295, 8–28–62, Cl. 198—115.

Moy, Tsoy K.: *See*— Howarth, Wesley L., and Moy. 3,016,694.

Moyat, Peter, to Hartmann & Braun Aktiengesellschaft. Instrument for maintaining constant oxygen partial pressure and measuring oxygen consumption. 3,045,665, 7–24–62, Cl. 128—207.

Moye, Benjamin H. Auxiliary oil distributor. 3,022,862, 2–27–62, Cl. 184—6.

Moyer, Donald W.: *See*— Virtue, Eugene P., Moyer, and Richardson. 3,065,977.

Moyer, Donald W., and G. T. Fiala, to International Harvester Co. Power steering apparatus. 3,059,717, 10–23–62, Cl. 180—79.2.

Moyer, Edward L., to The Bendix Corp. Process of making forged wheel constructions. 3,044,154, 7–17–62, Cl. 29—159.01.

Moyer, Elmo E., to Acme Electric Corp. Electrical circuit. 3,054,040, 9–11–62. Cl. 321—19.

Moyer, Elton S., to General Motors Corp. Brake booster. 3,045,652, 7–24–62, Cl. 121—41.

Moyer, Frederick D., and C. M. Orr, to Chicago Bridge & Iron Co. Floating roof for a liquid storage tank. 3,057,507, 10–9–62. Cl. 220—26.

Moyer, James D.: *See*— Janda, Richard M., and Moyer. 3,046,761.

Moyer, James D., to Textile Machine Works. Yarn take-up means for knitting machines. 3,017,757, 1–23–62, Cl. 66—148.

Moyer, James D., to Textile Machine Works. Yarn feed control means for knitting machines. 3,048,990, 8–14–62, Cl. 66—138.

Moyer, James H., to The Columbus Dental Mfg. Co. Replaceable anterior tooth construction. 3,041,727, 7–3–62, Cl. 32—9.

Moyer, Joseph J.: *See*— Coopper, Roderick A., and Moyer. 3,069,085.

Moyer, Richard L., and J. W. Ott, to Hercules Powder Co. Separator assembly for separation of liquids. 3,069,074, 12–18–62, Cl. 233—32.

Moyer, Robert F. Floating sleeves for die bushings. 3,070,404, 12–25–62, Cl. 308—4.

Moyer, Robert G.: *See*— Brennan, Elmer W., and Moyer. 3,020,747. Chapman, Paul R., Schimmel, and Moyer. 3,045,471.

Moyers, Charles R. Instrument for contact lens placement. 3,031,918, 5–1–62, Cl. 88—14.

Moyle, Clarence L., and R. L. Johnson, to The Dow Chemical Co. Polyalkylenelmine phenol germicides. 3,033,746, 5–8–62, Cl. 167—31.

Moyle, Clarence L., and D. R. Mussell, to The Dow Chemical Co. Composition and method for modifying plant growth. 3,056,669, 10–2–62, Cl. 71—2.6.

Moyle, Clarence L., and R. L. Johnson, to The Dow Chemical Co. Treating compositions containing nitrogeneous condensation products. 3,062,710, 11–6–62, Cl. 167—31.

Moyle, Edward J.: *See*— Hunting, Donald L., and Moyle. 3,034,235.

Moyrand, Jean: *See*— Charcuset, Raymond, and Moyrand. 3,024,857.

Moyroud, Louis M.: *See*— Higonnet, Rene A., and Moyroud. 3,016,209. Higonnet, Rene A., and Moyroud. 3,054,335.

Moyroud, Louis M., to R. A. Higonnet, and L. M. Moyroud. Type composing apparatus. 3,049,210, 8–14–62, Cl. 197—19.

Moyse, James A., to Imperial Chemical Industries Ltd. Water-soluble latent curing catalysts for textile treatment resins. 3,054,699, 9–18–62, Cl. 117—139.4.

Mozdy, Charles B. Sharpening implements. 3,053,019, 9–11–62, Cl. 51—151.

Mozell, Thomas M., and A. H. Gleason, to Esso Research and Engineering Co. Modified oxidized polymer oils. 3,026,279, 3–20–62, Cl. 260—23.

Mozen, Milton M., and T. D. Evans, to Abbott Laboratories. Process for purifying heparin. 3,058,884, 10–16–62. Cl. 167—74.

Mozic, Joseph D., to Thompson Ramo Wooldridge Inc. Bladder fuel tank. 3,067,810, 12–11–62, Cl. 158—50.1.

Mozina, Alfred L., and R. M. Peepies, to Allis-Chalmers Mfg. Co. Electric drive system. 3,031,604, 4–24–62, Cl. 318—152.

Mozoliauskas, Ramojus: *See*— Sawyer, Howard S. and D. B., Mozoliauskas, and Brynteson. 3,040,460.

Mrenna, Stephen A., to Westinghouse Electric Corp. Electric-switch construction. 3,056,009, 9–25–62, Cl. 200—144.

Mrenna, Stephen A., and D. G. Portman, to Westinghouse Electric Corp. Terminal block. 3,018,464, 1–23–62, Cl. 339—198.

Mrenna, Stephen A., and J. N. Groves, to Westinghouse Electric Corp. Breaker support. 3,048,685, 8–7–62, Cl. 200—116.

Mros, Albert A. Reduction gear drive unit. 3,056,315, 10–2–62, Cl. 74—805.

Mrstik, Adolph V.: *See*— Payne, Richard B., Mrstik, and Case. 3,056,667.

Mucan Engineering Co., Ltd.: *See*— Douglass, Walter and A., and Dyson. 3,058,483.

Mucher, George J., to Clarostat Mfg. Co., Inc. Multiturn potentiometer. 3,028,571, 4–3–62, Cl. 338—143.

Mucher, George J., to Clarostat Mfg. Co., Inc. Electrical control device. 3,044,033, 7–10–62, Cl. 338—163.

Muchnick, Robert B., to Space Technology Laboratories, Inc. Frequency multiplier. 3,025,448, 3–13–62, Cl. 321—69.

Muchnick, Paul, D. W. Tanner, N. Silver, and L. L. Helterline, Jr., to Raytheon Co. Voltage regulator. 3,042,848, 7–3–62, Cl. 321—19.

Muck, Otto. Method for transporting gas. 3,034,309, 5–15–62, Cl. 62—55.

Muckel, Alfred, and H. Pfaff, to Internationale Baumaschinenfabrik Aktiengesellschaft. Mixing apparatus for concrete or the like. 3,061,283, 10–30–62, Cl. 259—178.

Muckler, Frank, and E. B. Vandas, to Southern Equipment Co. Method of storing prepared foods. 3,051,582, 8–28–62, Cl. 99—171.

Mudd, Kenneth C., to Midwest Mfg. Corp. Oven door construction. 3,040,731, 6–26–62, Cl. 126—191.

Muddiman, Earll R., to United States Steel Corp. Roller leveler. 3,031,009, 4–24–62, Cl. 153—104.

Mueck, Hubert: *See*— Craven, Wilbur J., and Mueck. 3,023,645.

Muehlbausen, Robert J., to Schwitzer Corp. Starting motor control. 3,051,136, 8–28–62, Cl. 121—37.

Mueller, Albert J.: *See*— Robinson, Alfred J., Allegrini, and Mueller. 3,016,355.

Mueller, Alfred H., to Daimler-Benz Aktiengesellschaft. Air-compressing injection-type internal combustion engine. 3,020,899, 2–13–62, Cl. 123—32.

Mueller, Alfred H., to Daimler-Benz Aktiengesellschaft. Double-deck transportation device. 3,029,102, 4–10–62, Cl. 296—28.

Mueller, Alfred H., to Daimler-Benz Aktiengesellschaft. Auxiliary turbine drive arrangement for supercharged internal combustion engines. 3,050,932, 8–28–62. Cl. 60—13.

Mueller, Alvin H., to Harig Mfg. Corp. Air film bearing for machine tools. 3,030,744, 4–24–62. Cl. 51—225.

Mueller, Arthur C., to Bell & Howell Co. Camera. 3,020,814, 2–13–62. Cl. 95—11.5.

Mueller, Aubrey C. Portable beverage cooler and dispenser. 3,069,869, 12–25–62, Cl. 62—371.

Mueller Brass Co.: *See*— Gray, Robert A., Jr., and Woolford. 3,042,965.

Mueller, Charles A.: *See*— Van Tubergen, Richard F., and Mueller. 3,063,278.

Mueller Co.: *See*— Floren, Carl E., and Foltz. 3,066,908. Larry, Timothy A. 3,037,521. Mueller, Frank H. 3,030,975. Mueller, Frank H. 3,054,617. Smith, John J. 3,046,645.

Mueller, Curt: *See*— Merlan, Ernest, and Mueller. 3,042,478.

Mueller, Erich O., to Westinghouse Electric Corp. Brush holder support for dynamoelectric machine. 3,026,433, 3–20–62, Cl. 310—239.

Mueller, Erich O., to Westinghouse Electric Corp. Bearing assembly for dynamoelectric machines. 3,048,724, 8–7–62, Cl. 310—90.

Mueller, Erich O., to Westinghouse Electric Corp. Sealing means for centrifugal type pumps. 3,068,800, 12–18–62, Cl. 103—103.

Mueller, Ernest R., and H. N. Johnston, to Inland Container Corp. Antimar coated articles. 3,022,885, 2–27–62, Cl. 206—46.

Mueller, Eugen, H. Metzger, and D. Fries. Production of ketoximes. 3,048,634, 8–7–62, Cl. 260—566.

Mueller, Frank H., to Mueller Co. Angle valve. 3,030,975, 4–24–62, Cl. 137—246.22.

Mueller, Frank H., to Mueller Co. Arrangement for indicating leakage of seal for valve stem of fire hydrant. 3,054,617, 9–18–62. Cl. 277—2.

Mueller, Frank H., to Mueller Co. Service T with built-in valve and drilling mechanism. 3,068,724, 12–18–62, Cl. 77—37.

Mueller, Fritz, and J. J. Pascall, to Lenox Jewelry Products Corp. Automatic machine for assembling lazy tongs linkage from strips of link plates. 3,040,515, 6–26–62, Cl. 59—13.
Mueller, Fritz W. H.: *See*—
Evans, Helene D., Mueller, and Levinos. 3,041,172.
Levinos, Steven, and Mueller. 3,050,390.
Mueller, George P.: *See*—
Johns, William F., and Mueller. 3,025,308.
Mueller, Hans: *See*—
Latsch, William, and Mueller. 3,035,269.
Mueller, Hans. Filter cloth fastening means. 3,033,373, 5–8–62, Cl. 210—344.
Mueller, Hans F., to United States of America, Army. Turret mount. 3,027,810, 4–3–62, Cl. 89—37.
Mueller, Heinz W. Combined drill and countersinking tool. 3,063,312, 11–13–62, Cl. 77—66.
Mueller, John C., Jr., to Richardson Taylor-Globe Corp. Display package. 3,050,183, 8–21–62, Cl. 206—45.14.
Mueller, John J.: *See*—
Ida, Noble N., and Mueller. 3,031,392.
Mueller, John W., to Oglebay Norton Co. Highly thermally efficient hot top and preformed protective refractory and exothermic unit therefor. 3,039,158, 6–19–62, Cl. 22—147.
Mueller, Josef C., Jr.: *See*—
Camp, John E., Mueller, Sandholdt, and Haywood. 3,020,139.
Mueller, Kurt H. Depth and groove locating gage. 3,016,619, 1–16–62, Cl. 33—172.
Mueller, Lawrence E., to Burroughs Corp. Applicator for applying electronic components to printed circuit boards. 3,025,593, 3–20–62, Cl. 29—203.
Mueller, Max B.: *See*—
Pietrusza, Edward W., Brown, and Mueller. 3,050,544.
Mueller, Otto. Fluid lock for differential. 3,015,970, 1–9–62, Cl. 74—711.
Mueller, Otto. Pump and lock for differential. 3,040,600, 6–26–62, Cl. 74—711.
Mueller, Otto. C. H. Miller, and W. M. Engelbrecht. Indexing platform. 3,026,746, 3–27–62, Cl. 74—822.
Mueller, Paul, and R. Trefzer, to Ciba Pharmaceutical Products Inc. Process for the manufacture of pyridine carboxylic acid amides. 3,026,324, 3–20–62, Cl. 260—295.
Mueller, Paul, and R. Trefzer, to Ciba Corp. Process for the manufacture of N-cycloalkyl sulfamic acids. 3,060,231, 10–23–62, Cl. 260—500.
Mueller, Ralph L.: *See*—
Cressman, Earl W., Jurnak, and Mueller. 3,050,836.
Mueller, Richard J., to Automatic Canteen Co. of America. Vending machines. 3,019,946, 2–6–62, Cl. 222—180.
Mueller, Richard J., and J. Johnson, to Automatic Canteen Co. of America. Dispensing units. 3,059,450, 10–23–62, Cl. 62—344.
Mueller, Richard S., to Minneapolis-Honeywell Regulator Co. Fluid cleaning apparatus. 3,027,970, 4–3–62, Cl. 183—7.
Mueller, Robert: *See*—
Hastings, Franklin G., Mueller, and Preotle. 3,048,902.
Mueller, Robert C.: *See*—
Kizaur, Arthur J., Mueller, and Skrobish. 3,069,544.
Mueller, Frank H. 3,068,724.
Mueller, Robert J.: *See*—
Koetting, Robert A. 3,025,755.
Mueller, Robert J., to General Electric Co. Spring lock for X-ray apparatus. 3,028,933, 4–10–62, Cl. 188—77.
Muer, Rolf K., to General Mills, Inc. Semiconductive differential photodetector for two dimensional discrimination. 3,038,079, 6–5–62, Cl. 250—203.
Mueller, Thomas D.: *See*—
Jones, Stanley B., Mueller, and Baker. 3,041,454.
Mueller, William P., to Socony Mobil Oil Co., Inc. Orientation of nuclear magnetic resonance samples. 3,038,115, 6–5–62, Cl. 324—5.
Mueller, Wolfgang: *See*—
Kleine, Norbert, Matthes, and Mueller. 3,068,687.
Muench, Nils L.: *See*—
Graham, John W., and Muench. 3,040,822.
Graham, John W., Muench, and Williams. 3,020,964.
Muench, Nils L., and J. A. Rickard, to Jersey Production Research Co. Method and apparatus for measuring properties of fluid. 3,064,468, 11–20–62, Cl. 73—55.
Muench, Nils L., to Jersey Production Research Co. Apparatus for the production of intense bursts of neutrons. 3,070,697, 12–25–62, Cl. 250—83.3.
Muench, Toni O. Portable garment driers. 3,065,859, 11–27–62, Cl. 211—86.
Muench, Werner, L. Notarbartolo, and G. Messina, to Snia Viscosa Societa Nazionale Industria Applicazioni Viscosa S.p.A. Process for the polycondensation of diamines and dicarboxylic acids. 3,017,394, 1–16–62, Cl. 260—78.
Muench, Werner, L. Notarbartolo, and G. Silvestri, to Snia Viscosa Societa Nazionale Industria Applicazioni Viscosa S.p.A. Process for the manufacture of caprolactam. 3,022,291, 2–20–62, Cl. 260—239.3.
Muenchinger, Herman G., to Phillips Screw Co. Tools for recessed head fastener with oblique recess. 3,025,896, 3–20–62, Cl. 145—50.
Muenchinger, Herman G., to Phillips Screw Co. Recessed head fastener with oblique recess. 3,028,781, 4–10–62, Cl. 85—45.
Muenchinger, Herman G., to Noma Lites, Inc. Method of applying drive link screws. 3,040,425, 6–26–62, Cl. 29—413.
Muenchinger, Herman G., to Noma Lites Inc. Apparatus for applying drive link screws. 3,052,271, 9–4–62, Cl. 144—32.
Muenzer, Bernard M.: *See*—
Gewickey, Frank I., Golden, and Muenzer. 3,048,327.
Mues, George A. Peg board rosary. 3,042,302, 7–3–62, Cl. 233—90.
Muessel, Dan C.: *See*—
Pulling, Lewis L., Muessel, and Wille. 3,037,591.
Muessel, Dan C., to Kawneer Co. Metal construction element. 3,023,859, 3–6–62, Cl. 189—34.
Muessel, Dan C., and H. E. Gramse, to Kawneer Co. Door closer. 3,042,957, 7–10–62, Cl. 16—62.
Muessig, Clifford W.: *See*—
Bartlett, Jeffrey H., Kirshenbaum, Banes, and Muessig. 3,023,185.
Kirshenbaum, Isidor, Muessig, and Hill. 3,042,661.
Minckler, Leon, Cottle, and Muessig. 3,057,834.
Morway, Arnold J., Bartlett, and Muessig. 3,044,960.
Morway, Arnold J., Munday, Bartlett, and Muessig. 3,044,961.
Muetterties, Earl L., to E. I. du Pont de Nemours and Co. Preparation of diborane. 3,019,086, 1–30–62, Cl. 23—204.
Muetterties, Earl L., to E. I. du Pont de Nemours and Co. Decaborane salts and their preparation. 3,050,361, 8–21–62, Cl. 23—14.
Muetterties, Earl L., to E. I. du Pont de Nemours and Co. Method of preparing sulfur hexafluoride. 3,054,661, 9–18–62, Cl. 23—205.
Muetterties, Earl L., to E. I. du Pont de Nemours and Co. Process for preparing silanes. 3,057,686, 10–9–62, Cl. 23—204.
Muetterties, Earl L., to E. I. du Pont de Nemours and Co. Process for making boron hydrides. 3,063,809, 11–13–62, Cl. 23—204.
Muetterties, Earl L. and G. W. Parshall, to E. I. du Pont de Nemours and Co. Polyfluoroperhalocarbon boronic acid esters. 3,052,710, 9–4–62, Cl. 260—462.
Muffley, Robert V., to International Business Machines Corp. Positioning device. 3,025,710, 3–20–62, Cl. 74—89.15.
Muffly, Glenn. Refrigerator and ice maker. 3,041,125, 6–26–62, Cl. 312—296.
Muffly, Glenn. Refrigerating systems. 3,043,113, 7–10–62, Cl. 62—137.
Muffly, Glenn. Defrosting of evaporator. 3,049,892, 8–21–62, Cl. 62—210.
Mugler, Charles M. Folding table carrier. 3,031,084, 4–24–62, Cl. 211—2.
Mugler, Charles M. Folding table. 3,033,630, 5–8–62, Cl. 312—99.
Mugler, Charles M. Folding table and bench structure. 3,034,842, 5–15–62, Cl. 311—92.
Muhl, Andrew H.: *See*—
Foley, Clyde V., and Muhl. 3,053,964.
Mühlbeyer, Josef. Centrifugal-force controlled delayed-action transmission. 3,017,005, 1–16–62, Cl. 192—105.
Muhlestein, Ray W.: *See*—
Hovda, Robert E., and Muhlestein. 3,037,167.
Mühlhoff, Friedrich, to Mauser Kommandit-Gesellschaft. Containers and closure or like parts thereof. 3,019,956, 2–6–62, Cl. 220—3.7.
Muhlhoff, Friedrich, to Firma Mauser, Kommandit-Gesellschaft. Securing ring for a rectangular container. 3,028,-993, 4–10–62, Cl. 220—46.
Muhlhoff, Friedrich, to Mauser Kommandit-Gesellschaft. Removable spout or dispensing device. 3,058,633, 10–16–62, Cl. 222—568.
Muhm, Wilhelm: *See*—
Brockhues, Frederick B., and Muhm. 3,042,973.
Muhr, John. Wall structure of panels and interlocking tie rails. 3,025,640, 3–20–62, Cl. 50—186.
Muir, George A.: *See*—
Polan, Lancoln M., Cheuvront, Ingalls, Strom, and Muir. 3,025,750.
Muir, Hubert M., to Nuclear Corp. of America. Method for joining tantalum sheets. 3,067,320, 12–4–62, Cl. 219—118.
Muir, Robert D.: *See*—
Dodson, Raymond M., and Muir. 3,029,233.
Muir, Robert D., and R. M. Dodson, to G. D. Searle & Co. Microbiological aromatization of steroids. 3,023,229, 2–27–62, Cl. 260—479.
Muires, Wilhelm H., to W. C. & Z. N. Hart Instrumenten en Apparatenfabriek N.V. Universal pressure balance or deadweight tester. 3,028,745, 4–10–62, Cl. 73—4.
Muirhead & Co. Ltd.: *See*—
Bell, John, Foll, and Muirhead. 3,015,298.
Foll, John V. 3,037,674.
Foll, John V., and Bell. 3,045,630.
Sieber, Peter W., and Michael. 3,034,075.
Muirhead, Francis H.: *See*—
Bell, John, Foll, and Muirhead. 3,015,298.
Muirhead, Samuel A., to K. A. Jernstedt. Powered lift for hand trucks. 3,053,546, 9–11–62, Cl. 280—5.3.
Mukai, Jiro, to Canon Camera Co., Inc. Photographic objective. 3,023,671, 3–6–62, Cl. 88—57.
Mukai, Jiro, to Canon Camera Co., Inc. Gauss type photographic objective consisting of five lens elements arranged in four components. 3,033,080, 5–8–62, Cl. 88—57.
Mukai, Jiro, to Canon Camera Co., Inc. Wide angle photographic objective. 3,040,624, 6–26–62, Cl. 88—57.
Mukai, Jiro, to Canon Camera Co., Inc. High aperture photographic objectives of a small angle of field. 3,066,575, 12–4–62, Cl. 88—57.

Mukai, Victor S., to General Instrument Corp. Transistorized tuning circuit for television tuner or the like. 3,040,255, 6–19–62, Cl. 250—20.

Mulac, Rudolph A. Universal ball and socket joint. 3,037,799, 6–5–62, Cl. 285—282.

Mularz, Walter L.: *See*—
Hockings, Eric F., and Mularz. 3,037,065.

Mulaskey, Bernard F., to California Research Corp. Cyclic endothermic reaction processes. 3,042,729, 7–3–62, Cl. 260—680.

Mulavey, James E., and F. M. Hartz, to The Detroit Edison Co. Phase identifying and phase angle indicating means. 3,027,513, 3–27–62, Cl. 324—83.

Mulch, Hans, to Ernst Leitz, G.m.b.H., Optische Werke. Slide projector. 3,029,692, 4–17–62, Cl. 88—28.

Mulch, Hans, to Ernst Leitz Gesellschaft mit beschrankter Haftung. Transparent supporting and protective disk for photographic slides. 3,037,312, 6–5–62, Cl. 40—152.

Mulch, Hans, to Ernst Leitz Gesellschaft mit beschrankter Haftung. Projector. 3,067,535, 12–11–62, Cl. 40—73.

Mulcoy, Edward W., to American Forest Products Corp. Shipping box. 3,015,431, 1–2–62, Cl. 229—45.

Mulder, Allan C., and R. P. C. Rasmusen, to Miller Electric Mfg. Co. Arc welding transformer power supply. 3,016,484, 1–9–62, Cl. 321—24.

Mulder, Cyrus E., to Artcraft Novelty Shop. Aquarium cover. 3,068,645, 12–18–62, Cl. 119—5.

Mulder, Jan, to North American Philips Co., Inc. Heat regenerator. 3,062,509, 11–6–62, Cl. 257—270.

Mulder, Peter, to Europea, S.p.A. Table dispenser. 3,031,070, 4–24–62, Cl. 206—42.

Mulhern, Joseph D., and J. C. Guinan, to Norton Co. Tape core. 3,066,794, 12–4–62, Cl. 206—59.

Mulhern, William A., to Gar Wood Industries, Inc. Wheel cover. 3,022,112, 2–20–62, Cl. 301—37.

Mulhern, William A., to Gar Wood Industries, Inc. Wheel trim. 3,037,816, 6–5–62, Cl. 301—37.

Mulhollan, Frank W. Device for flexing shoes. 3,017,644, 1–23–62, Cl. 12—41.1.

Mulholland, George K., and E. O. Klemm, to Saginaw Products Corp. Vehicle frame with stowable leveling jack assembly. 3,033,523, 5–8–62, Cl. 254—86.

Mulholland, Kent A., to Saginaw Products Corp. Caster wheel assembly. 3,026,558, 3–27–62, Cl. 16—44.

Mulholland, Lawrence K. Suspension apparatus. 3,057,642, 10–9–62, Cl. 280—124.

Mulitz, Earl, to Potomac Iron Works, Inc. Stairways. 3,052,332, 9–4–62, Cl. 189—43.

Mull, Robert P., to Ciba Pharmaceutical Products, Inc. Five-membered N-heterocyclic guanidines. 3,030,378, 4–17–62, Cl. 260—313.

Mull, Robert P., to Ciba Corp. Certain 2-pyridyl lower alkyl guanidines. 3,036,083, 5–22–62, Cl. 260—296.

Mull, Robert P., to Ciba Corp. Reduction process for preparation of cyclic nitrogen compounds. 3,055,882, 9–25–62, Cl. 260—239.

Mull, Robert P., to Ciba Corp. Benzo-alkylenimino-lower guanidines. 3,055,883, 9–25–62, Cl. 260—239.

Mullally, Edward C. Garment display device. 3,064,366, 11–20–62, Cl. 35—56.

Mullane, Patrick J.: *See*—
Hungerford, Albert O., and Mullane. 3,038,210.

Mullen, Howard A.: *See*—
Placke, Everett H., and Mullen. 3,021,057.

Mullen, John H., and W. F. Born, to Westinghouse Electric Corp. Control switches. 3,018,338, 1–23–62, Cl. 200—16.

Mullen, John H., and W. F. Born, to Westinghouse Electric Corp. Electric switch. 3,027,441, 3–27–62, Cl. 200—167.

Mullen, Joseph A.: *See*—
Hinderer, Robert F., and Mullen. 3,054,142.

Mullen, Thomas W., Jr. Tubeless tire repair equipment. 3,035,625, 5–22–62, Cl. 152—370.

Mullen, Thomas W., Jr. Tubeless tire repair equipment. 3,035,626, 5–22–62, Cl. 152—370.

Mullender, Claude: *See*—
Riddle, William J., and Mullender. 3,057,397.

Mullens, Joseph P. Butt hooks. 3,066,371, 12–4–62, Cl. 24—123.

Muller A.G.: *See*—
Witschi, Eduard, and Hoppeler. 3,070,139.

Muller, Adam, and G. Pampus, to Bayer Aktiengesellschaft, Farbenfabriken. Process for combating snails. 3,058,880, 10–16–62, Cl. 167—33.

Muller, Alex C., 50% to A. W. Moser. Focal plane shutter for photographic cameras. 3,029,721, 4–17–62, Cl. 95—57.

Müller, Alfred H., to Daimler-Benz Aktiengesellschaft. Elastic engine suspension especially for motor vehicles. 3,018,-990, 1–30–62, Cl. 248—9.

Müller, Alfred H., to Daimler-Benz Aktiengesellschaft. Vehicle, particularly bus having a lower deck and an upper deck. 3,054,469, 9–18–62, Cl. 180—54.

Muller, Bernhard W.: *See*—
Geisthoff, Hubert. 3,063,062.

Muller, Burdette A.: *See*—
Herman, Virgil L., Muller, and Bowman. 3,064,345.

Müller, Carl-Heinz. Device for the mechanical sorting and collecting of veneer sheets of different lengths. 3,033,604, 6–12–62, Cl. 209—82.

Muller, David E., to Bell Telephone Laboratories, Inc. Asynchronous encoder. 3,017,626, 1–16–62, Cl. 340—347.

Muller, Ernst, to Hydraulik G.m.b.H. Receiver for metal extrusion presses and like power-driven machines. 3,042,195, 7–3–62, Cl. 207—15.

Müller, Ernst, to Hydraulik G.m.b.H. Method and means for elongating workpieces. 3,065,781, 11–27–62, Cl. 153—35.

Muller, Erwin: *See*—
Holtschmidt, Hans, and Muller. 3,027,354.
Schmidt, Karl-Ludwig, Müller, Bayer, Genski, and Peter. 3,036,042.
Steinbrenner, Hans, and Muller. 3,029,385.
Von Brachel, Hanswilli, Esser, and Muller. 3,062,768.
Wagner, Kuno, Muller, Holtschmidt, and Bayer. 3,043,-801.

Müller, Erwin, ½ to Farbenfabriken Bayer Aktiengesellschaft, and ½ to Mobay Chemical Co. Polyurethane plastics. 3,016,364, 1–9–62, Cl. 260—47.

Müller, Erwin, H. Holtschmidt, and G. Braün, ½ to Farbenfabriken Bayer Aktiengesellschaft, and ½ to Mobay Chemical Co. Preparation of polyacetal-polyisocyanate polymers. 3,021,289, 2–13–62, Cl. 260—2.5.

Muller, Erwin, O. Bayer, and J. Peter, to Farbenfabriken Bayer Aktiengesellschaft. Polyurethane plastics. 3,044,-991, 7–17–62, Cl. 260—77.5.

Muller, Erwin, C. Wiegand, and G. Braun, ½ to Farbenfabriken Bayer Aktiengesellschaft and ½ to Mobay Chemical Co. Production of polyurethane plastics using Schiff's base catalysts. 3,050,475, 8–21–62, Cl. 260—2.5.

Muller, Franz, Firma: *See*—
Kuppers, Josef, and Schultheiss. 3,026,596.

Muller, Fred A., and D. K. Keel, to International Telephone and Telegraph Corp. Tissue-equivalent plastic composition. 3,055,843, 9–25–62, Cl. 252—511.

Muller, Fred A., and D. K. Keel, to International Telephone and Telegraph Corp. Method of preparing aminotriazines useful for tissue-equivalent plastic composition. 3,055,-898, 9–25–62, Cl. 260—249.8.

Muller, George L., and W. J. O'Brien, to Bell Telephone Laboratories, Inc. Semi-automatic relay test circuit. 3,058,055, 10–9–62, Cl. 324—28.

Muller, George H. Signal system for guiding a car into a garage. 3,020,508, 3–20–62, Cl. 340—282.

Muller, George L., and L. Veraldi, to Ford Motor Co. Front wheel caster and camber adjustment means. 3,033,-588, 5–8–62, Cl. 280—96.2.

Muller, Georges: *See*—
Bertin, Daniel, Locatelli, Mathieu, Muller, and Fritel. 3,052,675.
Vellus, Leon, Muller, and Allais. 3,018,286.
Velluz, Leon, Muller, and Allais. 3,047,578.

Muller, Georges, to Les Laboratoires Francais de Chimiotherapie. Berbine derivatives. 3,022,309, 2–20–62, Cl. 260—287.

Muller, Georges, to Roussel-UCLAF, S.A. Novel process for opening hydrofuran rings. 3,037,035, 5–29–62, Cl. 260—397.45.

Muller, Georges, to Roussel-UCLAF, S.A. Δ^{8-14}-isodeserpidic acid lactone. 3,051,712, 8–28–62, Cl. 260—287.

Muller, Georges, to Roussel-UCLAF, S.A. Δ^{8-14}-Isoreserpic acid lactone. 3,051,713, 8–28–62, Cl. 260—287.

Muller, Georges, and A. Poittevin, to Les Laboratoires Francais de Chimiotherapie. New oxygenated derivatives of steroids and process of their preparation. 3,018,283, 1–23–62, Cl. 260—239.55.

Muller, Georges, and M. Stefanovic, to Les Laboratoires Francais de Chimiotherapie. Process for the preparation of formyl steroids and products obtained thereby. 3,022,-324, 2–20–62, Cl. 260—397.4.

Muller, Georges, and Velluz, to Roussel-UCLAF, S.A. 16-ethynylated steroid compounds and process for their production. 3,032,563, 5–1–62, Cl. 260—397.3.

Muller, Georges, and R. Bardoneschi, to Roussel-UCLAF, S.A. Novel process for the preparation of an 11,18-oxygenated steroid and products resulting therefrom. 3,037,021, 5–29–62, Cl. 260—239.57.

Muller, Georges, and A. Poittevin, to Roussel-UCLAF, S.A. Hydrogenation of A-nor-B-homo-steroids and compounds thereof. 3,040,092, 6–19–62, Cl. 260—488.

Muller, Georges, A. Poittevin, and R. Bardoneschi, to Roussel-UCLAF, S.A. A-nor-B-homo-steroids and process of preparing same. 3,040,093, 6–19–62, Cl. 260—488.

Muller, Georges, A. Allais, and L. Vellus, to Roussel-UCLAF, S.A. 6-ethyl-10-chloro-deserpidine and intermediates and processes for their production. 3,048,592, 8–7–62, Cl. 260—287.

Muller, Georges, and A. Poittevin, to Roussel-UCLAF S.A. A-nor-B-homo-estranes and their process of preparation. 3,061,636, 10–30–62, Cl. 260—488.

Muller, Georges, and L. Vellus, to Roussel-UCLAF, S.A. Process of producing 21-hexahydrobenzoates of adrenocortical hormones. 3,067,217, 12–4–62, Cl. 260—397.45.

Muller, Gerard, to Cartier, Inc. Picture container. 3,015,179, 1–2–62, Cl. 40—152.1.

Muller, Griffen R.: *See*—
Herbst, Edward J., and Muller. 3,048,460.

Müller, Hans: *See*—
Habicht, Ernst, and Müller. 3,038,896.

Muller, Hans-Wolfgang, to Bodenseewerk Perkin-Elmer & Co. G.m.b.H. Circuit arrangements for recording measuring instruments. 3,052,825, 9–4–62, Cl. 317—146.

Muller, Heinrich: *See*—
Sommer, Rudolf, and Muller. 3,035,998.

Müller, Heinrich, and G. Lischer, to Moenus A.G., Maschinenfabrik. Stroke adjusting means mounted on cutting press swing arm. 3,052,145, 9–4–62, Cl. 83—525.
Müller, Heinz: *See*—
Wiemer, Jean, and Müller, 3,029,578.
Wiemer, Jean, and Müller, 3,049,849.
Müller, Helmut: *See*—
Kugel, Fritz, and Muller. 3,065,652.
Seibold, Ernst, and Müller. 3,055,169.
Müller, Helmut, to Ernst Leitz Gesellschaft mit beschrankter Haftung. Photographic objective mount. 3,046,862, 7–31–62, Cl. 95—45.
Müller, Helmut K.: *See*—
Seibold, Ernst G., and Müller. 3,020,719.
Muller, Herbert W.: *See*—
Wedrich, Hellmut, Muller, and Peltner. 3,023,639.
Müller, Hermann: *See*—
Wagner, Ferdinand, Brandt, and Müller. 3,048,220.
Müller, Hildegard: *See*—
Engelbrecht, Heinz-Joachim, Lenke, and Müller. 3,017,411.
Muller, Hollis L., and S. J. Kent, to United States of America, Army. Primer testing device. 3,034,335, 5–15–62, Cl. 73—35.
Muller, Hugo, W. Meyer, and H. Meier, to Vereinigte Glanzstoff-Fabriken AG. Mountaineering ropes. 3,036,490, 5–29–62, Cl. 87—6.
Muller, Johann, to Albert Handtmann, Armaturenfabrik. Restraining device for apportion and twist-off sausage machines. 3,060,495, 10–30–62, Cl. 17—33.
Muller, Johannes, and C. Albrecht, to Kolene Corp. Process for nitriding metals. 3,022,204, 2–20–62, Cl. 148—15.5.
Muller, John A., to H. K. Porter Co., Inc. Flexible reinforced corrugated hose. 3,058,493, 10–16–62, Cl. 138—122.
Müller, John F.: *See*—
Malthaner, William A., and Müller. 3,035,252.
Muller, John W.: *See*—
Bauman, John S., Muller, and Teichner. 3,033,392.
Müller, Josef: *See*—
Beer, Franz, and Müller. 3,036,887.
Junghans, Helmut, Müller, and Kaiser. 3,015,277.
Müller, Josef, to Daimler-Benz Aktiengesellschaft. Front wheel suspension for motor vehicles. 3,024,040, 3–6–62, Cl. 280—106.5.
Müller, Josef, to H. A. Sickinger. Welding test device. 3,032,640, 5–1–62, Cl. 219—136.
Muller, Josef, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Concentration of hydrogen peroxide. 3,060,105, 10–23–62, Cl. 202—40.
Müller, Josef, to Daimler-Benz Aktiengesellschaft. Suspension for driven swinging half-axles. 3,064,749, 11–20–62, Cl. 180—73.
Müller, Josef, and F. Beer, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Process for the production of Caro's acid salts and solutions thereof. 3,036,885, 5–29–62, Cl. 23—114.
Muller, Josef, and F. H. van Winsen, to Daimler-Benz Aktiengesellschaft. Wheel suspension for vehicles. 3,068,020, 12–11–62, Cl. 280—106.5.
Müller, Karl, to Maag Gear-Wheel & Machine Co. Ltd. Rolling gear tester. 3,031,765, 5–1–62, Cl. 33—179.5.
Müller, Karl E.: *See*—
Nischk, Gunther, and Müller. 3,047,530.
Müller, Karl E., H. Holtschmidt, H. Morschel, and G. Braun, ½ to Farbenfabriken Bayer Aktiengesellschaft, and ½ to Mobay Chemical Co. Preparation of cellular polyurethane plastics. 3,026,275, 3–20–62, Cl. 260—2.5.
Muller, Kurt: *See*—
Schleifer, Josef, Fleck, Droppa, and Muller. 3,030,545.
Müller, Kurt, and J. Schleifer, to Robert Bosch G.m.b.H. Arc lamp. 3,022,441, 2–20–62, Cl. 314—69.
Muller, Lloyd E., to General Motors Corp. Lubricant control means. 3,025,716, 3–20–62, Cl. 74—607.
Muller, Ludwig. Drilled, cased well. 3,040,810, 6–26–62, Cl. 166—46.
Muller, Ludwig. Structure with underwater foundation. 3,054,268, 9–18–62, Cl. 61—52.
Muller, Ludwig. Exciter assembly for vibratory devices. 3,056,306, 10–2–62, Cl. 74—61.
Müller, Ludwig. Pile and method of installing the same. 3,064,438, 11–20–62, Cl. 61—53.58.
Müller, Oskar: *See*—
Gerlach, Martin, and Müller. 3,032,605.
Muller, Paul, to Compagnie Francaise des Matieres Colorantes. Process for the preparation of addition products of tertiary amines with dichloromethyl ethers of diols. 3,015,664, 1–2–62, Cl. 260—296.
Muller, Phillip A.: *See*—
Jamison, Robert C., Sr., and Muller. 3,024,722.
Muller, Pierre: *See*—
Joullie, Maurice, Laurre, Maillard, and Muller. 3,033,882.
Müller, Robert, P. Buchheit, and S. Nitzsche, to Wacker-Chemie G.m.b.H. Compositions based on unsaturated organosilicon compounds used for coating glass surfaces. 3,032,439, 5–1–62, Cl. 117—124.
Muller, Robert H., to The Air Preheater Corp. Rotor seal. 3,016,231, 1–9–62, Cl. 207—269.
Muller, Robert H., to The Air Preheater Corp. Rotary heat exchanger. 3,022,983, 2–27–62, Cl. 257—269.
Muller, Siegfried A., to American Cyanamid Co. Recrystallization of demethylchlortetracycline. 3,053,893, 9–11–62, Cl. 260—559.
Müller, Theodor, to Schweizerische Lokomotiv- und Maschinenfabrik. Hydraulic radially acting reciprocating engine. 3,030,932, 4–24–62, Cl. 121—52.
Müller, Werner: *See*—
Retter, Walther, Müller, and Zimmerman. 3,047,502.
Muller, Wilhelm, to Richards Bros. & Sons Ltd. Scissors, shears and like implements. 3,052,026, 9–4–62, Cl. 30—268.
Müller, Wolfgang: *See*—
Billen, Peter, Robra, Müller, and Vievering. 3,031,903.
Siebel, Gustav, Müller, Trägner, and Broockmann. 3,032,448.
Mullet, Atlee E. Mobile weed and brush cutting machine. 3,032,956, 5–8–62, Cl. 56—25.4.
Mullett, Howard G.: *See*—
Booker, Robert J., and Mullett. 3,045,250.
Mullicane, Joseph B. Weatherproof router trowel. 3,020,575, 2–13–62, Cl. 15—235.3.
Mulligan, Robert J., to International Instruments, Inc. Polarity discriminating control meter. 3,032,692, 5–1–62, Cl. 317—148.5.
Mulligan, William G.: *See*—
Felix, Joseph. 3,016,068.
Mullikin, Forrest T.: *See*—
Mullikin, Charles C., and Mullikin. 3,034,198.
Mullin, James A. Pacifier. 3,022,915, 2–27–62, Cl. 215—11.
Mullin, John L. Multi-channelled automatically conditioned dispensing machine. 3,043,474, 7–10–62, Cl. 221—109.
Mullin, John M. Key case construction. 3,016,940, 1–16–62, Cl. 150—40.
Mullin, John M. Change purse construction. 3,063,487, 11–13–62, Cl. 150—37.
Mullin, William H., to Philco Corp. Air conditioning. 3,022,647, 2–27–62, Cl. 62—427.
Mullinix, Charles D. Rigid end package and method of making same. 3,035,756, 5–22–62, Cl. 229—87.
Mullins, Dennis H.: *See*—
Van Cleve, Russell, and Mullins. 3,062,778.
Mullins, Joan M.: *See*—
Sandberg, Carl L., Roth, and Mullins. 3,046,226.
Mullins, John D., and T. J. Macek, to Merck & Co., Inc. Parenteral aqueous solutions of fat soluble vitamins. 3,070,499, 12–25–62, Cl. 167—58.
Mullins, John D., and T. J. Macek, to Merck & Co., Inc. Suppression of amorphous novobiocin crystallization in aqueous suspensions. 3,070,501, 12–25–62, Cl. 167—65.
Mullins, Lawrence L.: *See*—
Voorhees, Edward M. 3,022,693.
Mullins, Marvelle W. Spare tire carrier for pickup trucks. 3,019,928, 2–6–62, Cl. 214—451.
Mullins, Orvel E.: *See*—
Maeder, Henry A. 3,064,261.
Mullins, Ralph T.: *See*—
Clarke, Robert L., and Mullins. 3,041,846.
Mullins, William D., Jr., to North American Aviation, Inc. Static pressure compensator. 3,029,636, 4–17–62, Cl. 73—178.
Mullis, Carl W., Sr. Log-debarking machines. 3,047,035, 7–31–62, Cl. 144—208.
Mullison, Charles W., to United States of America, Navy. Stores rack. 3,036,852, 5–29–62, Cl. 294—83.
Mulloy, John F.: *See*—
Dorpbach, Robert R., and Mulloy. 3,048,554.
Mulock, Lawrence E., and M. P. Albert, to International Business Machines Corp. Cathode ray tube printer. 3,041,947, 7–3–62, Cl. 95—4.5.
Mulready, Richard C., to United Aircraft Corp. Liquid rocket propellant utilization control. 3,058,303, 10–16–62, Cl. 60—35.6.
Multanen, William W. Fish lure. 3,055,137, 9–25–62, Cl. 43—42.12.
Multer, Howard, and J. J. Roddy, to Skinner Precision Industries, Inc. Lightweight chuck. 3,023,016, 2–27–62, Cl. 279—1.
Multhopp, Hans, to Martin-Marrietta Corp. Ducted fan aircraft incorporating a blown flap arrangement. 3,018,982, 1–30–62, Cl. 244—15.
Multhopp, Hans, to Martin-Marrietta Corp. Blown tail arrangement for low speed controllability of an aircraft. 3,018,987, 1–30–62, Cl. 244—75.
Multi Electric Mfg. Inc.: *See*—
McDonald, Clement J. 3,066,217.
Multifastener Spring Division Inc.: *See*—
Patten, Alexander S. 3,023,470.
Multi-Lift Co., The: *See*—
Gunning, Alfred W. 3,061,045.
Gunning, Alfred W. 3,061,046.
Gunning, Alfred W. 3,061,047.
Multi-Metal Wire Cloth Co., Inc.: *See*—
Imershein, Charles J. 3,052,360.
Multin, Paul. Means for protecting constructions and buildings against the risk of fire. 3,050,134, 8–21–62, Cl. 169—5.
Multiple Extrusions, Inc.: *See*—
Harkenrider, Robert J. 3,038,201.
Harkenrider, Robert J. 3,038,202.
Multiple Products Corp.: *See*—
Lang, Sidney. 3,032,926.
Multitone Electric Co. Ltd.: *See*—
Sneath, Oswald B. 3,043,916.
Sneath, Oswald B. 3,044,054.

Mulvaney, Henry F., to General Electric Co. Releasable fastening assembly. 3,052,942, 9–11–62, Cl. 24—224.

Mulvany, Harry A.: *See*—
Mulvany, Richard B. and H. A. 3,068,948.

Mulvany, Richard B., and H. A. Mulvany, deceased (by R. F. Mulvany, executor). Scale. 3,068,948, 12–18–62, Cl. 177—224.

Mulvany, Robert F.: *See*—
Mulvany, Richard B. and H. A. 3,068,948.

Mulvey, John J., and L. W. G. Wilkinson, to United Shoe Machinery Corp. Twine tension controlling device. 3,051,412, 8–28–62, Cl. 242—129.2.

Mumford, William W., to Bell Telephone Laboratories, Inc. Noise generator. 3,023,374, 2–27–62, Cl. 331—78.

Mumford, William W., and I. Tatsuguchi, to Bell Telephone Laboratories, Inc Microwave coupling arrangements. 3,026,490, 3–20–62, Cl. 333—11.

Mumma, Harold J., to FMC Corp. Classification and recording machine for handling eggs. 3,017,024, 1–16–62, Cl. 209—72.

Mumma, Harold J., to FMC Corp. Machine for handling eggs. 3,040,865, 6–26–62, Cl. 198—25.

Mumma, Harold J., to FMC Corp. Transfer mechanism for a machine for handling eggs. 3,040,869, 6–26–62, Cl. 198—33.

Mumma, Harold J., to FMC Corp. Quality grading unit for egg handling machines. 3,056,489, 10–2–62, Cl. 198—232.

Mumma, Harold J., and T. E. Roberts, Jr., to FMC Corp. Method of and apparatus for detecting blood in eggs. 3,031,077, 4–24–62, Cl. 209—111.5.

Mumma, Jonas H. Self-clearing shovel and attachment. 3,047,328, 7–31–62, Cl. 294—59.

Mummendey, Arthur, to Irving Air Chute Co., Inc. Handle for sliding window. 3,030,672, 4–24–62, Cl. 20—52.

Mumper, Henry D., deceased, by M. A. Mumper, administratrix, to Combustion Engineering, Inc. Method and apparatus for inerting fuel separation cyclone against spontaneous combustion. 3,064,811, 11–20–62, Cl. 209—44.

Mumper, Martha A.: *See*—
Mumper, Henry D. 3,064,811.

Mumpower, Robert C., II: *See*—
Touey, George P., and Mumpower. 3,026,226.
Touey, George P., and Mumpower. 3,038,478.

Munakata, Motosuke, and J. Asahara, to Agency of Industrial Science and Technology, Ministry of International Trade and Industry. Process of manufacturing a special glass applicable for making a radiophotoluminescence dosimeter. 3,020,238, 2–6–62, Cl. 252—301.6.

Munck af Rosenschöld, John R., and F. A. Dahlgren, to Atlas Copco Aktiebolag. Rotary electric machines. 3,034,030, 5–8–62, Cl. 318—172.

Mund, Helmut, to Metallwerk Bahre K.G. Centrifugal mill with wind sifter. 3,055,597, 9–25–62, Cl. 241—49.

Munday, John C.: *See*—
Morway, Arnold J., Munday, Bartlett, and Muessig. 3,044,961.
Morway, Arnold J., and Munday. 3,065,179.

Munday, John C., to Esso Research and Engineering Co. Heat treating metals. 3,053,704, 9–11–62, Cl. 148—20.3.

Mundell, James M.: *See*—
Anderson, Oscar B., and Mundell. 3,055,316.

Mundhenke, Ernest C., Agricultural implement cleaner. 3,055,530, 9–25–62, Cl. 172—66.

Mundinger, K. P., G.m.b.H.: *See*—
Farenkopf, Rudi. 3,059,178.

Mundlos, Eberhard: *See*—
Fernholz, Hans, and Mundlos. 3,021,365.

Mundry, Wolfgang: *See*—
Gierer, Alfred, and Mundry. 3,052,606.

Mundt, Edward, to Hycon Mfg. Co. Rate divider circuit. 3,023,363, 2–27–62, Cl. 328—30.

Mundy, Waldemar M.: *See*—
Heston, Eugene E., and Mundy. 3,036,335.

Munekata, Eiji: *See*—
Hirao, Motozo, Haruta, Kuwatsuka, Munekata, and Imamoto. 3,025,136.

Munger, Stanley H.: *See*—
Linton, William H., Jr., and Munger. 3,068,525.

Municio, Vincente M., to Instituto Nacional de Industria. Fluidizing device. 3,034,222, 5–15–62, Cl. 34—57.

Munn, George E., to E. I. du Pont de Nemours & Co. Preparation of ethylene dimethacrylate. 3,060,226, 10–23–62, Cl. 260—486.

Munn, John E., to Jas. H. Matthews & Co. Abrasive grit marking machine 3,044,218 7–17–62, Cl. 51—8.

Munn, John E., to Jas. H. Matthews & Co. Magnetic holder for marking dies. 3,044,394, 7–17–62, Cl. 101—28.

Munns, George W., Jr., F. P. Otto, and F. M. Seger, to Socony Mobil Oil Co., Inc. Complex metal salts of alkylphenol-aldehyde condensation products and method for preparing same. 3,070,576, 12–25–62, Cl. 260—53.

Munns, Harold E.: *See*—
Harbin, Adie D., Jr., and Munns. 3,051,631.

Munns, Michael G.: *See*—
Gaspar, Emeric, Munns, and Harrison. 3,068,521.

Munro, Nell, and D. Maclean, to Imperial Chemical Industries Ltd. Manufacture of esters. 3,050,533, 8–21–62, Cl. 260—346.1.

Munro, Nell, and D. Maclean, to Imperial Chemical Industries Ltd. Improvements in the esterification of terephthalic acid with ethylene glycol. 3,050,548, 8–21–62, Cl. 260—475.

Munro, Wendell P.: *See*—
Vartanian, Richard D., and Munro. 3,061,554.

Munroe, Richard W.: *See*—
Rust, Edgar C., Jr., and Munroe. 3,051,998.

Munroe, Robert A.: *See*—
Seaman, Seth W., and Munroe. 3,052,249.

Munroe, Thomas, to Moraine Box Co. Refrigerator crate. 3,029,995, 4–17–62, Cl. 229—23.

Munschauer, Edwin A., Jr., to Niagara Machine & Tool Works. Power press control means. 3,019,878, 2–6–62, Cl. 192—144.

Munschauer, Frederick E., Jr., G. H. Trautman, Jr., and C. O. Jones, Jr., to Niagara Machine & Tool Works. Hydraulic power transmission systems for press brakes and like machines. 3,059,431, 10–23–62, Cl. 60—52.

Munschauer, George E., and L. S. Platou, to Niagara Machine & Tool Works. Hydraulic seamer. 3,030,900, 4–24–62, Cl. 113—23.

Munse, Robert A., to Prestole Corp. Method of making screw-receiving fasteners or the like. 3,044,165, 7–17–62, Cl. 29—532.

Munse, Robert A., to The Bishop and Babcock Corp. Breaker strip mounting clip. 3,060,535, 10–30–62, Cl. 24—73.

Munse, Robert A., to The Bishop and Babcock Corp. Cage nut having spring metal mounting plate with catch fingers. 3,060,988, 10–30–62, Cl. 151—41.75.

Munsell, David D., and W. M. Jackson, II, to Cabot Corp. Process for heat-treating molded compositions. 3,015,853, 1–9–62, Cl. 18—48.

Munsell, Monroe W., and S. L. Wythe, to Esso Research and Engineering Co. High detergency automotive engine lubricant. 3,053,766, 9–11–62, Cl. 252—32.7.

Munsinger, Lyle F. Combination spreader and weight release assembly. 3,068,605, 12–18–62, Cl. 43—42.74.

Munsingwear, Inc.: *See*—
Mastenbrook, Sylvia L. 3,040,751.
Rutledge, George E. 3,026,697.

Munson, Charles E. Bathtub enclosure. 3,050,742, 8–28–62, Cl. 4—154.

Munson, Chester L., to The Louis Allis Co. Liquid cooled eddy current coupler device. 3,054,007, 9–11–62, Cl. 310—105.

Munson, Donald J., to The J. R. Clark Co. Ladder construction. 3,016,976, 1–16–62, Cl. 182—194.

Munson, Donald J., and E. L. Nubson, to The J. R. Clark Co. Ironing table foot construction. 3,018,574, 1–30–62, Cl. 38—121.

Munson, Verne E.: *See*—
Miller, Robert A., Munson, Owendoff, and Taris. 3,022,380.

Munson, Whitney K. Type font holding device. 3,066,604, 12–4–62, Cl. 101—381.

Munster, Josef, and H.-D. Textor, to Ferdinand Lentjes Kesselschmiede u. Maschinenbau. Gas producers. 3,047,376, 7–31–62, Cl. 48—76.

Munt, Plummer C., to E. B. & A. C. Whiting Co. Method of making oriented filamentary article of isotactic polypropylene. 3,059,991, 10–23–62, Cl. 18—54.

Munz, Friedrich. Device for adjusting the eccentricity of crank pins. 3,059,502, 10–23–62, Cl. 74—600.

Munz, Otto J. Sea farming. 3,017,856, 1–23–62, Cl. 119—4.

Munz, Otto J. Sea farming. 3,017,857, 1–23–62, Cl. 119—4.

Munzing, George E.: *See*—
Reynolds, Eugene E., Lindberg, Avery, Munzing, and Thomas. 3,019,971.

Murai, Kotaro: *See*—
Celmer, Walter D., Murai, Routien, and Sobin. 3,021,259.
Tanner, Fred W., Jr., Hochstein, and Murai. 3,022,347.

Muramatsu, Haruo. Automatic regulating valve. 3,042,073, 7–3–62, Cl. 137—495.

Muramatsu, Hiroye. Absence sign device for telephone. 3,064,085, 11–13–62, Cl. 179—89.

Muramoto, Shoichi: *See*—
Sugine, Shigenobu, and Muramoto. 3,020,897.

Murat, Adolf R. Pneumatic lifter for bed patient. 3,026,541, 3–27–62, Cl. 5—81.

Murata, Noboru: *See*—
Aoi, Saburo, and Murata. 3,070,550.

Murawski, Stephen A. Artificial casting bait. 3,025,628, 3–20–62, Cl. 43—35.

Murchison, Alvin: *See*—
Schechter, William H., Shumway, and Murchison. 3,028,221.

Murcko, Nelson F. Magnetic sheet film loader. 3,045,571, 7–24–62, Cl. 95—11.

Murcott, Charles E. Guard rails for beds. 3,056,975, 10–9–62, Cl. 5—331.

Murden, Peter, to International Standard Electric Corp. Electro-mechanical transducers. 3,036,232, 5–22–62, Cl. 310—26.

Murdock, Barbara: *See*—
Murdock, Charles L. 3,044,461.

Murdock, Benjamin, to Fortuna Foundations, Inc. Hose supporter retaining means. 3,059,647, 10–23–62, Cl. 128—535.

Murdock, Charles L., deceased; B. Murdock, executrix. Proctо-sigmoidoscope. 3,044,461, 7–17–62, Cl. 128—4.

Murdock, John E., Jr. Shrinkage measuring device. 3,020,755, 2–13–62, Cl. 73—159.

Murdock, Stanley A.: *See*—
Armen, Ardy, Murdock, and Cokelet. 3,029,213.

Murdock, Stanley A., to The Dow Chemical Co. Graft copolymers comprised of monomeric vinyl benzyl polyglycol ethers on polyvinyllactams, acrylonitrile polymer compositions obtainable therewith, and method of preparation. 3,029,219, 4–10–62, Cl. 260—45.5.

Murdock, Stanley A., T. G. Traylor, and T. B. Lefferdink, to The Dow Chemical Co. Graft copolymers comprised of mixtures of vinyl pyridine monomers and certain monomeric sulfonic acid compounds on N-vinyl-3-morpholinone polymer substrates, improved acrylonitrile polymer compositions obtainable therewith and method of preparation. 3,026,287, 3–20–62, Cl. 260—45.5.

Murdock, Stanley A., T. G. Traylor, and T. B. Lefferdink, to The Dow Chemical Co. Graft copolymers comprised of mixtures of vinyl pyridine monomers and certain monomeric sulfonic acid compounds on certain N-vinyl-2-oxazolidinone copolymer substrates, improved acrylonitrile polymer compositions obtainable therewith, and method of preparation. 3,026,288, 3–20–62, Cl. 260—45.5.

Murdock, Stanley A., and T. G. Traylor, to The Dow Chemical Co. Graft copolymers of certain monomeric sulfonic acids on polyvinyl lactams, improved acrylonitrile polymer compositions obtainable therewith, and method of preparation. 3,026,291, 3–20–62, Cl. 260—45.5.

Murdock, Stanley A., and A. Armen, to The Dow Chemical Co. Graft copolymers comprised of certain monomeric diacrylic esters of polyglycols on N-vinyl-3-morpholinone polymer substrates, improved acrylonitrile polymer compositions obtainable therewith, and method of preparation. 3,026,295, 3–20–62, Cl. 260—45.5.

Murdock, Stanley A., and A. Armen, to The Dow Chemical Co. Graft copolymers comprised of certain monomeric diacrylic esters of polyglycols on certain N-vinyl-2-oxazolidinone copolymer substrates, improved acrylonitrile polymer compositions obtainable therewith, and method of preparation. 3,026,296, 3–20–62, Cl. 260—45.5.

Murdock, Stanley A., and A. Armen, to The Dow Chemical Co. Graft copolymers comprised of monomeric diacrylate esters of polyglycols on polyvinyllactams, acrylonitrile polymer compositions obtainable therewith, and method of preparation. 3,029,218, 4–10–62, Cl. 260—45.5.

Murdock, Stanley A., C. W. Davis, and F. A. Ehlers, to The Dow Chemical Co. Graft copolymers of monomeric aminoethylacrylates and methacrylates on polyvinyllactams, acrylonitrile polymer compositions obtainable therewith, and method of preparation. 3,029,220, 4–10–62, Cl. 260—45.5.

Murdock, Stanley A., C. W. Davis, and F. A. Ehlers, to The Dow Chemical Co. Graft copolymers of monomeric acrylates and monomeric organic sulfonic acid compounds upon polyvinyllactams, acrylonitrile polymer compositions obtainable therewith, and method of preparation. 3,035,009, 5–15–62, Cl. 260—45.5.

Murdock, Stanley A., C. W. Davis, and F. A. Ehlers, to The Dow Chemical Co. Graft copolymers of mixtures of monomeric bis-acrylamides and monomeric organic sulfonic acid compounds upon polyvinyllactams, improved acrylonitrile polymer compositions obtainable therewith, and method of preparation. 3,036,032, 5–22–62, Cl. 260—45.5.

Murdock, Stanley A., T. G. Traylor, and T. B. Lefferdink, to The Dow Chemical Co. Graft copolymers of mixtures of vinyl pyridine monomers and monomeric sulfonic acids upon polyvinyllactams, acrylonitrile polymer compositions obtainable therewith, and method of preparation. 3,036,033, 5–22–62 Cl. 260—45.5.

Murdock, Stanley A., and A. R. Wirth, to The Dow Chemical Co. Process for treating a "nitrile alloy" article with a polyphenolic antistatic agent and product obtained thereby. 3,047,426, 7–31–62, Cl. 117—138.8.

Murek, Josef K., to General Dynamics Corp. Actuator with set force plunger. 3,039,439, 6–19–62, Cl. 121—38.

Murfitt, Harry C., to Burroughs Wellcome & Co. (U.S.A.) Inc. Ethyl bis-(2-chloropropyl)carbamate. 3,019,255, 1–30–62, Cl. 260—482.

Murgio, Joseph: *See*—
Alexander, Ben, Press, and Murgio. 3,025,514.

Murgio, Joseph, to International Telephone and Telegraph Corp. Frequency difference detector. 3,069,623, 12–18–62, Cl. 324—70.

Murib, Jawad H., and J. Feldman to National Distillers and Chemical Corp. Method for separation of hydrogen halides from mixtures containing same. 3,067,009, 12–4–62, Cl. 23—154.

Murley, Ellsworth M., Jr., to Owens-Illinois Glass Co. Inhibiting false signals in electronic gauging. 3,048,269, 8–7–62, Cl. 209—74.

Muroga, Ko, and J. Okuda, to Nippon Electric Co. Ltd. Automatic telephone exchange subscriber circuit. 3,025,356, 3–13–62, Cl. 179—18.

Muros, Joseph, to The Gillette Co. Safety razor with adjustable blade exposure. 3,056,199, 10–2–62, Cl. 30—60.5.

Muroski, Walter G.: *See*—
Cagle, William B., and Muroski. 3,041,537.

Murphey, Joseph H.: *See*—
Williams, Barney W., and Murphey. 3,031,841.

Murphey, Joseph H., Jr., to Phillips Petroleum Co. Rocket with large propellant charge units. 3,048,008, 8–7–62, Cl. 60—35.6.

Murphy, Alfred M., C. M. Flak, and N. A. Wagner, to Reynolds Metals Co. Extrusion heat treating system. 3,019,-144, 1–30–62, Cl. 148—12.7.

Murphy, Arthur J.: *See*—
Fitzgerald, Charles F., and Murphy. 3,048,134

Murphy, Arthur Y.: *See*—
Colborne, Ronald H., and Murphy. 3,023,137.

Murphy, Bernard J., to Allis-Chalmers Mfg. Co. Cartridge type seal. 3,024,028, 3–6–62, Cl. 277—43.

Murphy, Bernard T.: *See*—
Manley, Brian W., and Murphy. 3,021,458.

Murphy Chemical Co. Ltd., The: *See*—
Flanka, Max. 3,018,215.

Murphy, Clarence R., to Gulf Research & Development Co. Process for oxidizing a normally gaseous hydrocarbon. 3,027,411, 3–27–62, Cl. 260—604.

Murphy, Clarence R., to Gulf Research & Development Co. Process for purifying higher alcohols obtained from the oxidation of hydrocarbons. 3,052,731, 9–4–62, Cl. 260—643.

Murphy, Clarence R., to Gulf Research & Development Co. Process for purifying acetaldehyde. 3,062,889, 11–6–62, Cl. 260—601.

Murphy, Clifford F., to The Stanley Works. Closet bar assembly. 3,051,318, 8–28–62, Cl. 211—94.

Murphy, Cornelius J., Jr., and G. F. L. Wood, to Eastman Kodak Co. Waterproof paper negative. 3,021,214, 2–13–62, Cl. 96—85.

Murphy, Cornelius L., 25% to J. C. Chognard. Panel tie. 3,046,385, 7–24–62, Cl. 50—395.

Murphy, Donald R., to Sel-O-Min, Inc. Effervescent acetylsalicylic acid tablet. 3,024,165, 3–6–62, Cl. 167—55.

Murphy, Eugene F.: *See*—
Knochel, William J., Murphy, and Skwirut. 3,030,542.

Murphy, Ferol M.: *See*—
Murphy, Raymond. 3,061,370.

Murphy, Frank H.: *See*—
Jencks, Charles L., and Murphy. 3,053,954.

Murphy, Frank R. Motorized pack and game cart. 3,055,-449, 9–25–62, Cl. 180—19.

Murphy, Howard E.: *See*—
Kabeil, Louis J., Murphy, and Guggi. 3,016,428.

Murphy, Howard E., to A. B. Dick Co. Stairstep waveform generator. 3,031,583, 4–24–62, Cl. 307—88.5.

Murphy, Howard J., to United-Carr Fastener Corp. Tube shield fastening means for tube shield. 3,036,145, 5–22–62, Cl. 174—35.

Murphy, Hubert W., to Lilly, Eli and Co. Erythromycin compounds. 3,040,025, 6–19–62, Cl. 260—210.

Murphy, Jack L.: *See*—
Walker, John M., Jr. 3,019,502.

Murphy, James, to Garde Mfg. Co. Multiple contact connector with wire wrap terminals. 3,070,769, 12–25–62, Cl. 339—49.

Murphy, James F., Jr.: *See*—
Hoyt, Charles W., and Murphy. 3,054,607.

Murphy, James J., to Chicopee Mfg. Corp. Dusting tool. 3,056,989, 10–9–62, Cl. 15—231.

Murphy, Joe W., to General Motors Corp. Combination flood and tail lamp. 3,038,063, 6–5–62, Cl. 240—8.3.

Murphy, John A., to Conch International Methane Ltd. Transmission line for cold liquids. 3,046,219, 1–9–62, Cl. 248—55.

Murphy, John F. and R. E., to Swift & Co. Method of treating poultry. 3,025,170, 3–13–62, Cl. 99—194.

Murphy, John J., to The Borden Corp. Method of making a sintered polyamide resin ball bearing retainer. 3,027,626, 4–3–62, Cl. 29—148.4.

Murphy, John J. Combination garment and accessory therefor. 3,031,677, 5–1–62, Cl. 2—93.

Murphy, John J., Jr.: *See*—
Dimler, William A., Jr., Schetelich, and Murphy. 3,057,-930.

Murphy, John L. Solid grouting bar and hanger element for setting slabs and method. 3,017,725, 1–23–62, Cl. 50—418.

Murphy, John M., M. K. Tucker, and T. H. Fogt, to General Motors Corp. Refrigerating apparatus. 3,016,183, 1–9–62, Cl. 230—139.

Murphy, John P., to Yuba Consolidated Industries, Inc. Method and apparatus for bridge construction. 3,027,633, 4–3–62, Cl. 29—429.

Murphy, John P., to Yuba Consolidated Industries, Inc. Apparatus for bridge construction. 3,055,090, 9–25–62, Cl. 29—200.

Murphy, Joseph E.: *See*—
Starzec, Francis J., and Murphy. 3,048,718.

Murphy, Joseph E., to General Motors Corp. Transistor converter circuit. 3,048,764, 8–7–62, Cl. 321—2.

Murphy, Joseph E., and F. J. Starzec, to General Motors Corp. Transistor converter power supply system. 3,040,-277, 6–19–62, Cl. 331—113.

Murphy, Maxwell K. Dual radiant heater. 3,020,384, 2–6–62, Cl. 219—39.

Murphy, Melvin H.: *See*—
Kis, George, and Murphy. 3,035,176.

Murphy, Michael. Drill attachment for motorized appliance. 3 056,316, 10–2–62, Cl. 77—55.

Murphy, Norbert J., to Automatic Electric Laboratories, Inc. Postpay paystation circuit providing special service. 3,046,341, 7–24–62, Cl. 179—6.3.

Murphy, Norman, and C. Cicerl, to Glaces de Boussois. Method of manufacturing matching sheets of glass. 3,050,-906, 8–28–62, Cl. 49—77.

Murphy, Norman B., to The Bendix Corp. Dual speed trim actuator mechanism and control system for a control surface of an aircraft. 3,038,352, 6–12–62, Cl. 74—626.

Murphy, Oscar V., to Newaygo Engineering Co. Shell mold dump. 3,063,583, 11–13–62, Cl. 214—46.22.

Murphy, Oscar V., and G. Meyer, to Newaygo Engineering Co. Level control means. 3,036,736, 5–29–62, Cl. 222—23.

Murphy, Philip D. : *See*—
Gibson, Paul, Farbak, and Murphy. 3,021,228.

Murphy, Raymond, 50% to F. M. Murphy. Travelers accessory case. 3,061,370, 10–30 62, Cl. 297—194.

Murphy, Raymond J., to Medart Lockers, Inc. Folding basketball goal-structures. 3,018,102, 1–23–62, Cl. 273—1.5.

Murphy, Raymond J., to Medart Lockers, Inc. Seat for bleachers and the like. 3,025,104, 3–13–62, Cl. 297—218.

Murphy, Raymond J., to Medart Lockers, Inc. Control systems for power-actuated extensible seat structures. 3,045,292, 7–24–62, Cl. 20—1.126.

Murphy, Raymond J., to Medart Lockers, Inc. Power-operated telescoping seating structures. 3,069,732, 12–25–62, Cl. 20—1.126.

Murphy, Raymond J., to Medart Lockers, Inc. Mechanical movers for telescoping gymnasium seating structures and the like. 3,069,733, 12–25–62, Cl. 20—1.126.

Murphy, Robert E. : *See*—
Murphy, John F. and R. E. 3,025,170.

Murphy, Robert H., to The Wiremold Co. Contact and terminal member for wiring devices. 3,020,517, 2–6–62, Cl. 339—164.

Murphy, Roy E., Jr., and J. P. Weil, to General Dynamics Corp. Hydraulic control system. 3,038,449, 6–12–62, Cl. 121—38.

Murphy, Thomas H., to Pemco Wheel Co. Lubrication structure for a swivel caster. 3,051,981, 9–4–62, Cl. 16—36.

Murphy, Thomas M. Practice golf club construction. 3,044,-781, 7–17–62, Cl. 273—193.

Murphy, Timothy M. Combined bumper and guide for automatic bowling pin setting machines. 3,061,309, 10–30–62, Cl. 273—43.

Murphy, Walter T., to The B. F. Goodrich Co. Stable polyurethane rubbers. 3,033,825, 5–8–62, Cl. 260—75.

Murphy, William M., Jr., to United States of America, Navy. Balanced transformer. 3,031,609, 4–24–62. Cl. 323—48.

Murphy, William P., Jr., ½ to Cordis Corp. and ½ to Don Baxter, Inc. Surgical manometer. 3,033,038, 5–8–62, Cl. 73—388.

Murphy, William P., Jr., ½ to Cordis Corp. and ½ to Don Baxter Inc. Surgical valve. 3,048,192, 8–7–62, Cl. 137—625.42.

Murr, Eugene W. Safety seat catch. 3,028,198, 4–3–62, Cl. 297—216.

Murr, John, Jr., and H. O. Hook, to Radio Corp. of America. Layer type storage light amplifier. 3,064,133, 11–13–62, Cl. 250—213.

Murr, Phillip E. : *See*—
Odom, John H., and Murr. 3,034,287.

Murray, Alan E. Ice skate blade. 3,061,324, 10–30–62, Cl. 280—11.12.

Murray, Bradley. Morse-to-binary code translator. 3,038,030, 6–5–62. Cl. 178—26.

Murray, Charles A., C. R. Campbell, and A. C. Richard, to Crosby Forest Products Co. Tung oil-latex coatings. 3,033,808, 5–8–62, Cl. 260—23.

Murray, Charles H., and J. W. Wallace. Cartridge fed animal insecticide applicator. 3,033,166, 5–8–62, Cl. 119—157.

Murray Co. of Texas, Inc., The : *See*—
Neitzel, Joseph C. 3,040,653.

Murray Corp., The : *See*—
Schukraft, John W. 3,042,412.

Murray Corp. of America, The : *See*—
Ament, Myron J. 3,060,454.
McWethy, Irvin E. 3,015,225.
Oles, Joseph F. 3,015,224.

Murray, Donald E., and A. C. Koett, Jr. Holder. 3,058,708, 10–16–62, Cl. 248—102.

Murray, Donald W., to Hughes Aircraft Co. Pulse generator. 3,067,393, 12–4–62, Cl. 332—14.

Murray, Frederick R., to Rolls-Royce Ltd. Combustion apparatus of gas turbine engines with means controlling air flow conditions in the combustion apparatus. 3,019,605, 2–6–62. Cl. 60—39.65.

Murray, George E. : *See*—
Gardner, Charles N., Furrer, and Murray. 3,050,278.

Murray, George H., to Xerox Corp. Fastener driving tool. 3,056,967, 10–9–62, Cl. 1—345.

Murray, Gordon C. : *See*—
Everett, John W. 3,040,933.
Everett, John W., and Murray. 3,015,410.

Murray, Herbert C. : *See*—
Hanze, Arthur R., Murray, and Sebek. 3,038,913.

Murray, Jerome L. Catapult. 3,035,794, 5–22–62, Cl. 244—63.

Murray, Jerome L. Fluid pressure devices. 3,045,611 7–25–62. Cl. 104—155.

Murray, John B. : *See*—
Andersen, Peter B., and Murray. 3,051,252.

Murray, John B., K. H. B. Posselt, and T. P. Long, to Standard Dredging Corp. Mobile pneumatic breakwater. 3,068,655, 12–18–62. Cl. 61—6.

Murray, John L., and R. A. Westlund, to Esso Research and Engineering Co. Solution metal cutting and grinding fluids. 3,046,225, 7–24–62, Cl. 252—33.6.

Murray, Joseph D., to The United Steel Companies Ltd. Austenitic steel and articles made therefrom. 3,017,266, 1–16–62, Cl. 75—128.

Murray, Lester : *See*—
Tranbarger, Glen E., Murray, Young, and Mehagan. 3,051,801.

Murray, Malcolm G. Eraser holder. 3,049,095, 8–14–62, Cl. 120—40.

Murray Mfg. Corp. : *See*—
Kobryner, Herman H., and Brauneck. 3,020,373.
Laverty, Martin J., and Brunner. 3,037,800.

Murray, Maurice J., and E. J. Bicek, to Universal Oil Products Co. Recovery of metals. 3,021,209, 2–13–62, Cl. 75—83.

Murray, Maynard. Margarine. 3,026,207, 3–20–62, Cl. 99—122.

Murray Ohio Mfg. Co., The : *See*—
Douglas, Alvin P. 3,016,606.
Douglas, Alvin P. 3,030,857.
Douglas, Alvin P. 3,055,097.
Douglas, Alvin P., and Hahn. 3,044,802.

Murray, Peter, and D. T. Livey, to United Kingdom Atomic Energy Authority. Production of sintered compacts of beryllia. 3,025,137, 3–13–62, Cl. 23—183.

Murray, Raymond R. Deactivating switch for electric fences. 3,025,377, 3–13–62, Cl. 200—155.

Murray, Robert E., to B. B. Chemical Co. Lubricant coating compositions. 3,030,305, 4–17–62, Cl. 252—49.7.

Murray, Victor S. Floor feeder duct. 3,063,471, 11–13–62, Cl. 138—109.

Murray, William. Centrifugal impeller pumps. 3,068,801, 12–18–62, Cl. 103—103.

Murray, Willie G. Fish fly holding vise. 3,060,613, 10–30–62, Cl. 43—1.

Murrell, Carl T. Foot rest for vehicle drivers. 3,047,088, 7–31–62. Cl. 180—90.6.

Murri, Albert T. Nuclear powered ground-effect machine for operation over water employing water shielding. 3,019,-756, 2–6–62, Cl. 114—67.

Murrle, Kurt. Inertia wound watch with overwind preventer. 3,019,595, 2–6–62, Cl. 58—82.

Murschel, Erwin, to C. F. Scheer & Cie. Portable grinding machine. 3,049,842, 8–21–62, Cl. 51—170.

Murthy, Gopala K., J. E. Campbell, Jr., E. B. Masurovsky, and L. F. Edmondson; said Edmondson assor. to United States of America, Agriculture; said Murthy, Campbell, and Masurovsky assors. to United States of America, Atomic Energy Commission. Process for removal of radionuclides from milk. 3,020,161, 2–6–62, Cl. 99—54.

Murtland, James B., Jr. : *See*—
Orborn, Orville E., Murtland, and Schoepf. 3,015,974.

Murtland, James B., Jr., to Allegheny Ludlum Steel Corp. Automatic control system for rolling mills and adjustable dies with automatic error detection. 3,054,311, 9–18–62, Cl. 80—56.

Murtland, James B., Jr., F. J. Schoepf, and J. W. Skinner, to Allegheny Ludlum Steel Corp. Digital gage. 3,056,208, 10–2–62. Cl. 33—147.

Murton, Crawford B., to Vesuvius Crucible Co. Stopper for a ladle or similar receptacle. 3,044,132, 7–17–62, Cl. 22—85.

Murty, Anthony F. and B. P., to Bendix-Westinghouse Automotive Air Brake Co. Safety brake mechanism for vehicle. 3,020,094. 2–6–62, Cl. 303—9.

Murty, Benedict P. : *See*—
Murty, Anthony F. and B. P. 3,020,094.

Mus, Murnik : *See*—
Doucet Jules L. J., and Mus. 3,030 468.

Musante, Carlo. Basic ethers of 7-isoxnzolyl-4-hydroxy-9-methoxy-5H-furano[3,2-][1]benzopyran-5-ones. 3,053,841, 9–11–62, Cl. 260—247.5.

Musat, George, and A. J. Poole, to The Babcock & Wilcox Co. Method and apparatus for burning pulverized coal. 3,049,-085, 8–14–62, Cl. 110—28.

Musch, Henry : *See*—
Alspach, Hardin S., Gamble, Hampshire, Mellinger, and Musch. 3,044,117.

Müschenborn, Walter, and E. Nötzold. Method of producing a carbonaceous product from low grade coal. 3,026,252, 3–20–62. Cl. 202—31.

Muschenborn, Walter, E. Nötzold, and W. Schinzel. Method of producing briquettes from low-grade coal. 3,027,306, 3–27–62, Cl. 202—26.

Müschenborn, Walter, and E. Nötzold. Process for preparing smalls and fines of coal. 3,045,818, 7–24–62. Cl. 209—49.

Muse, Grant H., Jr., to Minneapolis-Honeywell Regulator Co. Photographic copying apparatus. 3,060,796, 10–30 62, Cl. 88—24.

Muse, John F., to Baker Oil Tools, Inc. Subsurface well bore tool. 3,026,941, 3–27–62, Cl. 166—216.

Muse, John F., to Baker Oil Tools, Inc. Compensating tubing anchor. 3,045,758, 7–24–62, Cl. 166—216.

Muse, Mary E. : *See*—
Conrad, Gyle D., Muse, and Conrad. 3,045,833.

Muse, Richard H., to Everbrite Electric Signs, Inc. Illuminatable display sign casings. 3,023,524, 3–6–62, Cl. 40—132.

Muse, Robert F. : *See*—
Berkson, Herbert D. 3,057,142.

Musel, Robert J., to Wheaton Plastics Co., Inc. Non-refillable pouring spout. 3,063,589, 11–13–62, Cl. 215—21.

Musgrave, Daniel D. Safety system for explosive actuated devices. 3,023,576, 3–6–62, Cl. 60—39.47.

Musgrave, Daniel D. Electric circuit control systems. 3,039,-010, 6–12–62, Cl. 307—94.

Musgrave, Daniel D. Cartridge magazine with elliptical springs. 3,039,221, 6–19–62, Cl. 42—50.
Musgrave, Orly. Variable speed drive. 3,015,237, 1–2–62, Cl. 74—230.17.
Mushkin, Nick M., to Columbia Plastics Corp. Ball grinder. 3,024,578, 3–13–62, Cl. 51—117.
Musick, Francis S.: *See*—
Musick, Oral E., F. S. and W. J. 3,036,541.
Musick, Oral E., F. S. and W. J. Drain plug. 3,036,541, 5–29–62, Cl. 114—183.
Musick, Willard J.: *See*—
Musick, Oral E., F. S. and W. J. 3,036,541.
Musilli, Louis C. Flexible universal steering assembly. 3,023,766, 4–10–62, Cl. 74—492.
Muskat, David: *See*—
Crews, Allen B., and Muskat. 3,043,022.
Muskat, Irving E.: *See*—
Fennebresque, John D., and Muskat. 3,041,217.
Muskat, Irving E., to Texas Butadiene & Chemical Corp. Resinous reaction product comprising a copolymer of an unsaturated dicarboxylic acid anhydride and an olefinic compound, and an aliphatic polyhydric alcohol, and a molding composition comprising same and a plasticizer. 3,046,246, 7–24–62, Cl. 260—30.4.
Muskat, Louis R. and R. L. Wrapped product and method and apparatus for producing same. 3,031,809, 5–1–62, Cl. 53—30.
Muskat, Paul H. Solar beacon for aircraft. 3,023,315, 2–27–62, Cl. 250—201.
Muskat, Robert L.: *See*—
Muskat, Louis R. and R. L. 3,031,809.
Muskegon Outboard Specialties Co.: *See*—
Carpenter, William R. 3,059,480.
Muskegon Piston Ring Co.: *See*—
Nisper, Kenneth J., and Matthews. 3,066,398.
Muskulus, Willi, to Balzer Droll Schnitt- und Werkzeugbau, Firma. Method and apparatus for binding electric conductors and windings. 3,050,019, 8–21–62, Cl. 112—2.
Muspratt, Paul M. Method and apparatus for producing a monolithic concrete construction panel. 3,030,687, 4–24–62, Cl. 25—41.
Musschoot, Albert: *See*—
Francis, Norman L., Thomson, and Musschoot. 3,045,886.
Musschoot, Albert, to Link-Belt Co. Vibrating feeder. 3,029,-924, 4–17–62, Cl. 198—59.
Musschoot, Albert, to Chain Belt Co. Elastic strut conveyor mount. 3,056,488, 10–2–62, Cl. 198—220.
Musschoot, Albert, to Chain Belt Co. Debris guards for rubber springs. 3,058,577, 10–16–62, Cl. 198—220.
Musschoot, Albert, to Chain Belt Co. Rotary conveyor. 3,061,074, 10–30–62, Cl. 198—52.
Musschoot, Albert, to Chain Belt Co. Reversible vibratory feeder. 3,068,996, 12–18–62, Cl. 198—220.
Mussell, Dorsey R.: *See*—
Moyle, Clarence L., and Mussell. 3,056,669.
Musselman, Andrew J. Metallic door construction. 3,070,-191, 12–25–62, Cl. 189—46.
Musser, C Walton: *See*—
Dowdell, Thomas de W., and Musser. 3,031,968.
Musser C Walton, to United Shoe Machinery Corp. Anti-backlash devices. 3,020,775, 2–13–62, Cl. 74—440.
Musser, C Walton, to United States of America, Army. Sheet metal nozzle. 3,021,760, 2–20–62, Cl. 89—1.7.
Musser, C Walton, to United States of American, Army. Recoilless rifle with a vena contracta orifice. 3,026,775, 3–27–62, Cl. 89—1.7.
Musser, C W Walton, to United States of America, Army. Recoilless rifle. 3,027,809, 4–3–62, Cl. 89—1.7.
Musser, C Walton, to United States of America, Army. Self-ejecting breech. 3,030,864, 4–24–62, Cl. 89—1.7.
Musser, C Walton, to United Shoe Machinery Corp. Multiple wave generators for harmonic drive. 3,034,375, 5–15–62, Cl. 74—640.
Musser, C Walton, to United States of America, Army. Recoil adjusting device. 3,035,494, 5–22–62, Cl. 89—1.7.
Musser, C. Walton, to United States of America, Army. Propulsion means for projectiles. 3,044,363, 7–17–62, Cl. 89—8.
Musser, C. Walton. Double action pump and engine. 3,048,-115, 8–7–62, Cl. 103—48.
Musser, C. Walton, to United Shoe Machinery Corp. Rotary-linear transducers. 3,056,311, 10–2–62, Cl. 74—424.8.
Musser, C Walton, to United States of America, Army. Projectile broach. 3,057,264, 10–9–62, Cl. 90—63.
Musser, C Walton, to United Shoe Machinery Corp. Oscillating motion transmitting device. 3,065,645, 11–27–62, Cl. 74—127.
Musser, Clair O. Computing apparatus. 3,035,356, 5–22–62, Cl. 35—45.
Musser, Clair O. Visual tuning device for stringed instruments. 3,058,384, 10–16–62, Cl. 84—454.
Musser, David M., to Chicopee Mfg. Corp. Germicidal, bactericidal and fungicidal compositions. 3,058,877, 10–16–62, Cl. 167—22.
Musser, David M., to Chicopee Mfg. Corp. Organic mercurial compounds useful as germicides, bactericides and fungicides. 3,059,013, 10–16–62, Cl. 260—431.
Musser, David M., to Chicopee Mfg. Corp. Aqueous water repellent dispersions comprising a methylene dialkylamide, a methylol condensate and a non-ionic surface active agent. 3,067,159, 12–4–62, Cl. 260—29.4.
Musser, David M., and J. H. Vellekamp, to Chicopee Mfg. Corp. Textile material and process of treating the same. 3,048,500, 8–7–62, Cl. 117—139.4.
Musser, David M., and J. H. Vellekamp, to Chicopee Mfg. Corp. Dyeing carriers and their use. 3,057,674, 10–9–62, Cl. 8—83.
Musso, Ferdinando P. Piston and cylinder action coffee maker. 3,020,823, 2–13–62, Cl. 99—287.
Musso, Pompilio, and G. Guzzetta, to Montecatini Societa General per l'Industria Mineraria e Chimica. Thermos container and method for making. 3,069,041, 12–18–62, Cl. 220—9.
Musson, Donald M., and A. F. Jackson, deceased (R. D. Jackson and B. J. Allgeier, executrices). Apparatus for facilitating the mounting of an automobile on a truck. 3,032,217, 5–1–62, Cl. 214—505.
Mustakas, Gus C., E. L. Griffin, Jr., and L. D. Kirk, to United States of America, Agriculture. Production of undenatured debittered soybean product. 3,023,107, 2–27–62, Cl. 99—98.
Mustert, Rudolf, to The N.V. Apparatenfabriek Plaisier. Multiple half-wave double bridge connection having alternating current supply and direct current output. 3,018,438, 1–23–62, Cl. 324—57.
Muth, Friedrich, O. Bayer, deceased, and O. Bayer. Protective agents. 3,066,166, 11–27–62, Cl. 260—556.
Muth, Herbert, to Telefunken G.m.b.H. System for supervision of vehicles. 3,068,473, 12–11–62, Cl. 343—112.
Muth, James A. Straining device. 3,051,317, 8–28–62, Cl. 210—460.
Mutolese, Michael, to John G. Weingarten Inc. Pressing machine. 3,052,388, 9–4–62, Cl. 223—57.
Mutolese, Michael, to John G. Weingarten Inc. Underpressing apparatus and method for underpressing garment. 3,052,909, 9–4–62, Cl. 223—57.
Mutolo, Peter J., and E. G. Boehm, to Houdaille Industries, Inc. Cartridge-type spring-bias means for a predetermined
Mutschler, Edward C., to Engelhard Hanovia, Inc. Starting and operating circuit for high pressure arc lamps. 3,066,-243, 11–27–62, Cl. 315—176.
Muttart, M. D.: *See*—
Hoveland, Julian C. 3,056,159.
Mutter, Walter S., to International Business Machines Corp. Semiconductor devices and methods of applying metal films thereto. 3,067,071, 12–4–62, Cl. 148—1.5.
Mutti, Daniel S. Fishing lure. 3,043,042, 7–10–62, Cl. 43—42.51.
Mutti, Daniel S. Trolling spoon. 3,055,138, 9–25–62, Cl. 43—42.13.
Mutto, Theodore R., to Nestaway Inc. Bar for locking load in vehicle. 3,053,549, 9–11–62, Cl. 280—179.
Mutto, Theodore R., to Nestaway Inc. Lift truck for stacked racks. 3,066,813, 12–4–62, Cl. 214—384.
Mutton, Donald B., to Canadian International Paper Co. Method of removing resin from wood pulp. 3,061,504, 10–30–62, Cl. 162—65.
Mutual Citrus Products Co.: *See*—
Leo, Herbert T., and Bodfish. 3,065,081.
Leo, Herbert T., and Taylor. 3,034,901.
Muxfeldt, Hans, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Anthracene acids and process. 3,036,116, 5–22–62, Cl. 260—473.
Muytjens, Mathias J. G.: *See*—
Van den Berg, Cornelis E. P. V., Bos, and Muytjens. 3,060,162.
Muzzey, Warren M. Sleep inducing devices. 3,031,686, 5–1–62, Cl. 5—109.
Mycalex Corp. of America: *See*—
Hessinger, Philip S., and Haller. 3,024,118.
Moore, Robert E. 3,057,741.
Rowe, William E. 3,020,156.
Myck, Edward A., and R. T. Osen, to Minneapolis-Honeywell Regulator Co. Control apparatus for air conditioning systems. 3,022,641, 2–27–62, Cl. 62—163.
Myck, Edward A., Jr., to Minneapolis-Honeywell Regulator Co. Temperature control apparatus. 3,019,001, 1–30–62, Cl. 257—290.
Myddelton, Geoffrey C., to Carbonaire S.A. Filters for use in motor vehicles. 3,016,108, 1–9–62, Cl. 183—4.8.
Myddelton, Geoffrey C., to Carbonaire S.A. Stamp and envelope moistener. 3,056,999, 10–9–62, Cl. 15—541.
Myer, Percy L., to The Western Union Telegraph Co. Ticker tape projection system. 3,060,799, 10–30–62, Cl. 88—24.
Myerberg, Michael. Make-up mirror. 3,059,103, 10–16–62, Cl. 240—4.1.
Myerly, Richard C.: *See*—
Poppelsdorf, Fedor, and Myerly. 3,040,029.
Lemon, Russell C., and Myerly. 3,022,349.
Myerly, Richard C., and J. P. Creagh, to Union Carbide Corp. Separation of N-methylpiperazine from mixtures thereof with piperazine. 3,069,331, 12–18–62, Cl. 202—39.5.
Myers, Bernard, and J. Dembinsky, to J. Myers. Changeable exhibitors. 3,050,888, 8–28–62, Cl. 40—132.
Myers, Charles E. Rain gauge. 3,039,304, 6–19–62, Cl. 73—171.
Myers, Charles E., and W. T. Linson, to Texaco Inc. Clamp type wrench adapter for deep well operations. 3,016,776, 1–16–62, Cl. 81—180.
Myers, Clyde B.: *See*—
Foster, James L., Laymon, and Myers. 3,027,291.
Myers, Curtis B., and W. W. Coffeen, to Metal & Thermit Corp. Apparatus for moving slender elongated members lengthwise. 3,022,929, 2–27–62, Cl. 226—184.

Myers, Daryl L.: *See*—
Hardesty, Edwin C., and Myers. 3,024,497.
Myers, Donald E., J. F. List, and J. C. Bowman, to Aero Service Inc. Map making and apparatus therefor. 3,050,-872, 8–28–62, Cl. 35—40.
Myers, Earl E., to Gulf Research & Development Co. Stabilized distillate fuel oils. 3,029,136, 4–10–62, Cl. 44—66.
Myers, Elman B., to Fuller-Myers. Double image electric light projectors. 3,037,139, 5–29–62, Cl. 313—113.
Myers, F. E., & Bro. Co.: *See*—
Zehner, William H. 3,062,600.
Myers, Felix E., to I-T-E Circuit Breaker Co. Terminal lug. 3,037,182, 5–29–62, Cl. 339—149.
Myers, George J.: *See*—
Olsen, David E., Richtmyer, Wilson, and Myers. 3,052,-827.
Myers, Harold D., and H. T. Nelson, to United States Rubber Co. Method of making a coated fabric having a suede-like surface. 3,054,691, 9–18–62, Cl. 117—10.
Myers, Herbert F. Load ejector mechanism for vehicle bodies. 3,021,968, 2–20–62, Cl. 214—82.
Myers, Hubert A.: *See*—
Likely, Newton A., and Myers. 3,053,279.
Myers, John: *See*—
Myers, Bernard, and Dembinsky. 3,050,888.
Myers, John E.: *See*—
Comings, Edward W., McLain, and Myers. 3,038,533.
Myers, John W., to Phillips Petroleum Co. Hydrocracking liquid alkanes with a catalyst consisting of a platinum metal in admixture with boria and zirconia. 3,046,317, 7–24–62, Cl. 260—676.
Myers, John W., to Phillips Petroleum Co. Hydrocracking process. 3,047,490, 7–31–62, Cl. 260—59.
Myers, Joseph R.: *See*—
Brown, Carl L., Myers, Kinsey, and Menefee. 3,050,614.
Myers, Laurence A.: *See*—
Hostetler, Eldon, and Myers. 3,033,163.
Myers, La Vern B., ¼ to A. P. Martin. Headrest. 3,029,107, 4–10–62, Cl. 297—399.
Myers, Lester A. Pie cutter. 3,016,608, 1–16–62, Cl. 30—114.
Myers, Myron L., and W. R. Whately, to American Cyanamid Co. Titanium dioxide pigment carrying an amine salt as dispersion aid. 3,015,573, 1–2–62, Cl. 106—300.
Myers, Paul D., to Aerpat Aktien Gesellschaft. Twist lock pin with ball detents and a rectangular actuator. 3,046,-827, 7–31–62, Cl. 85—5.
Myers, Peter B., to Bell Telephone Laboratories, Inc. Magnetic memory matrix. 3,015,809, 1–2–62, Cl. 340—174.
Myers, Ray, Corp.: *See*—
Myers, Raymond L. 3,036,577.
Myers, Raymond L. 3,049,126.
Myers, Raymond L., to Ray Myers Corp. Card file compressor and lock. 3,036,577, 5–29–62, Cl. 129—28.
Myers, Raymond L., to Ray Myers Corp. Card file tray and compressor. 3,049,126, 8–14–62, Cl. 129—28.
Myers, Richard H.: *See*—
Bland, David M., and Myers. 3,060,901.
Myers, Richard L. Hand and power operated collet chuck. 3,030,119, 4–17–62, Cl. 279—4.
Myers, Richard L., to Dura Corp. Swivel seat control. 3,051,522, 8–28–62, Cl. 296—68.
Myers, Richard T., to General Electric Co. Tuned circuit filter. 3,042,885, 7–3–62, Cl. 333—76.
Myers, Robert E.: *See*—
Grossmann, Elihu D., and Myers. 3,051,609.
Grossmann, Elihu D., and Myers. 3,051,610.
Myers, Robert R. Method of and means for producing printing plates. 3,062,139, 11–6–62, Cl. 101—401.1.
Myers, Robert R., and J. W. Atman, to Aluminum Co. of America. Center bolt connectors. 3,026,497, 3–20–62, Cl. 339—246.
Myers, William D.: *See*—
Clark, Earnest H., Jr., and Myers. 3,055,431.
Myers, William D., to Baker Oil Tools, Inc. Parallel tubing string packer and anchor. 3,045,754, 7–24–62, Cl. 166—120.
Myers, William D., to Baker Oil Tools, Inc. Well packer and setting device therefor. 3,066,738, 12–4–62, Cl. 166—149.
Myers, William H.: *See*—
Spencer, Corwin N., and Myers. 3,041,674.
Stanton, Robert L., and Myers. 3,032,846.
Myerson, Edward J. Menu card assembly for drive-in restaurants. 3,068,599, 12–18–62, Cl. 40—132.
Myerson, Richard L.: *See*—
Myerson, Simon and R. L. 3,052,241.
Myerson, Simon and R. L. 3,055,364.
Myerson, Simon and R. L. 3,063,450.
Myerson, Simon, and V. H. Sears, to Myerson Tooth Corp. Artificial teeth. 3,035,347, 5–22–62, Cl. 32—2.
Myerson, Simon and R. L., to Myerson Tooth Corp. Sterile packaged hypodermic needle and syringe. 3,052,241, 9–4–62, Cl. 128—221.
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Myerson, Simon and R. L., to Myerson Tooth Corp. Syringe. 3,063,450, 11–13–62, Cl. 128—218.
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Myerson, Simon and R. L. 3,052,241.
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Myford Engineering Co. Ltd.: *See*—
Smith, Ernest G. 3,057,216.
Myhre, Thore-Kristian. Arrangement for pressure-controlled quantity regulation in air ventilation installations. 3,058,-491, 10–16–62, Cl. 138—41.
Myichreest, George D., to Emhart Mfg. Co. System for feeding meat in water emulsion into molds. 3,050,771, 8–28–62, Cl. 17—41.
Myies, William J.: *See*—
Fortess, Fred, and Myles. 3,016,280.
Mylting, Lauritz E., to The Allen Sherman Hoff Co. Dust collector device. 3,061,994, 11–6–62, Cl. 55—346.
Mylting, Lauritz E., R. P. Spreter, and R. W. Horn, to The Allen Sherman Hoff Co. Dust handling apparatus. 3,038,-482, 6–12–62, Cl. 134—99.
Mynall, Dennis J., to Associated Electrical Industries (Rugby) Ltd. Position servo systems. 3,064,169, 11–13–62, Cl. 318—28.
Myotte, Robert J. Drawbench. 3,029,930, 4–17–62, Cl. 205—3.
Myrick, Joseph C., to Rixon Electronics, Inc. High speed serial binary communication system for voice frequency circuits. 3,062,913, 11–6–62, Cl. 178—2.
Myska, Günter: *See*—
Pätzold, Georg, Myska, and Grube. 3,021,967.
Myska, Günter. Control system for sewing and the like machines. 3,025,444, 3–13–62, Cl. 318—162.
Mystik Adhesive Products, Inc.: *See*—
Gaynes, Raymond A., and Schnabel. 3,032,438.
Sampson, Lorne G. 3,035,005.
Mytton, Robert W., and P. E. Stello, to Hughes Aircraft Co. Processing semiconductor material. 3,041,690, 7–3–62, Cl. 22—216.5.
NEA Service, Inc.: *See*—
Monroe, Meade. 3,047,213.
NJE Corp.: *See*—
Krsna, Steve. 3,049,658.
NSU Motorenwerke Aktiengesellschaft: *See*—
Froede, Walter, and Paschke. 3,059,585.
Froede, Walter G., Hoppner, and Paschke. 3,042,009.
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Naab, Gerard A., and F. J. Sario, Jr., to Burroughs Corp. Printed circuit component and assembly. 3,058,037, 10–9–62, Cl. 317—101.
Naamlooze Vennootschap: Aagrunal, Chemische Fabriek: *See*—
Bel, Jan. 3,067,090.
Naamlooze Vennootschap-Maatschappij Tot Vervaardiging Van Snijmachines Volgens Van Berkel's Patent en Van Andere Werktuigen: *See*—
Meyer, Paul H., and Hanson. 3,031,818.
Naas, Don W.: *See*—
Nicholson, James F., and Naas. 3,031,778.
Naborowski, John G., to The Electric Auto-Lite Co. Ignition system. 3,016,477, 1–9–62, Cl. 315—206.
Nabuda, John. Adjustable clip. 3,023,471, 3–6–62, Cl. 24—116.
Naccarato, Tony C. Closed pressure type flush tank bowl combination. 3,029,443, 4–17–62, Cl. 4—26.
Nace, Harold R.: *See*—
Monagle, John J., Jr., and Nace. 3,056,835.
Nace, Harold R., to E. I. du Pont de Nemours and Co. Process of preparing olefines of sulfonate esters of secondary alcohols. 3,058,998, 10–16–62, Cl. 260—397.2.
Nachman Corp.: *See*—
Nachman, Fred A., Jr. 3,052,460.
Nachman, Fred A., Jr. 3,064,280.
Nachman, Fred A., Jr., to Nachman Corp. Coil spring assembly and components thereof. 3,052,460, 9–4–62, Cl. 267—100.
Nachman, Fred A., Jr., to Nachman Corp. Spring assembly structure. 3,064,280, 11–20–62, Cl. 5—353.
Nachsi, Zalman. Combined postal scale and pen. 3,043,387, 7–10–62, Cl. 177—232.
Nachtman, John S., and H. G. Poole. Beneficiation and recovery of metals. 3,020,151, 2–6–62, Cl. 75—82.
Nack, Herman: *See*—
Sorgenti, Harold A., Nack, and Sachsel. 3,035,918.
Nack, Herman, to G & A Laboratories, Inc. Coating and pelletizing of fusible materials. 3,036,338, 5–29–62, Cl. 18—47.2.
Nack, Herman R., J. J. Bulloff, and J. R. Whitacre, to Union Carbide Corp. Chromium nickel alloy gas plating. 3,050,-417, 8–21–62, Cl. 117—107.
Nadeau, Joseph M. A.: *See*—
Jones, Richard N., and Nadeau. 3,036,215.
Nadherny, Frank J., and M. C. Prymek, to Western Electric Co., Inc. Adjustable clamping device. 3,017,175, 1–16–62, Cl. 269—130.
Nadherny, Russell J., to General Binding Corp. Binding apparatus. 3,038,181, 6–12–62, Cl. 11—1.
Nadig, Francis H.: *See*—
Bohn, Jacob L., Nadig, and Korneff. 3,040,627.
Korneff, Theodore, Bohn and Nadig. 3,029,685.
Nadir, Mark T., to United States of America, Navy. Square-wave generator. 3,017,537, 1–16–62, Cl. 315—230.
Nadler, Ira. Soap grip holders. 3,019,548, 2–6–62, Cl. 45—28.
Nadler-Werke Dr. Paul Nadler: *See*—
Hastrich, Friedrich. 3,041,186.
Naegele, Robert E., to The Dow Chemical Co. Method of cleaning filter surfaces. 3,061,400, 10–30 62, Cl. 8—137.

Naegeli, Werner, to Joh. Jacob Rieter & Co. Swingable supported drafting rolls. 3,036,345, 5–29–62, Cl. 19—261.
Naegeli, Werner, to Joh. Jacob Rieter, & Cie., Actiengesellschaft. Feed table for slivers. 3,038,216, 6–12–62, Cl. 19—288.
Naegeli, Werner, to Joh. Jacob Rieter & Co. Ltd. Supplying lap to the nippers of combing machines. 3,041,675, 7–3–62, Cl. 19—225.
Naegeli, Werner, to Joh. Jacob Rieter & Cie, Actiengesellschaft. Stripping device for the clearer roller in drafting arrangements. 3,059,284, 10–23–62, Cl. 19—140.
Naegeli, Werner, to Joh. Jacob Rieter & Co. Sliver coiler. 3,061,893, 11–6–62, Cl. 19—159.
Naegeli, Werner, to Joh. Jacob Rieter & Co. Ltd. Nipper mechanism for a combing machine. 3,066,360, 12–4–62, Cl. 19—227.
Naegeli, Werner, and E. Sinner, to Joh. Jacob Rieter & Cie, Actiengesellschaft. Condensing trumpet. 3,035,313, 5–22–62, Cl. 19—288.
Naeser, Gerhard, to Mannesmann Aktiengesellschaft. Method for rolling metal powder. 3,019,487, 2–6–62, Cl. 18—55.
Naess, Knut. Hypodermic syringe. 3,040,743, 6–26–62, Cl. 128—216.
Nagai, Nobuya: *See*—
Fujise, Seiichi, Nagai, and Mitsunaga. 3,063,803.
Nagamatsu, Henry T.: *See*—
Cary, Kenneth H., Nagamatsu, and Sheer. 3,031,591.
Nagano, Koichi: *See*—
Hirano, Katsuaki, Takada, Suzumura, and Nagano. 3,061,884.
Miyahara, Hisao, Hirano, Suzumura, and Nagano. 3,058,862.
Nagata, Wataru, M. Narisada, and T. Sugasawa, to Shionogi & Co., Ltd. 4-androstene-3,11,17-trione 17-oxime and intermediates therefor. 3,055,917, 9–25–62, Cl. 260—397.3.
Nagel-Chase Mfg. Co., The: *See*—
Schultz, Edward H., Jr. 3,069,918.
Schultz, Edward H., Jr. 3,069,919.
Nagel, Dave D.: *See*—
Anderson, Clifford E., Gulick, and Nagel. 3,067,977.
Nagel, Ernst P.: *See*—
Bohnson, David L., Parnell, Shanklin, Williamson, and Nagel. 3,061,892.
Nagel, Fritz J., to The Polymer Corp. Method of coating an article with a powdered resin composition and method of making the composition. 3,028,251, 4–3–62, Cl. 117—21.
Nagel, Harold L.: *See*—
Natzman, Benjamin H., and Nagel. 3,055,240.
Nagel, Helmut A., to Eastman Kodak Co. Slide changer. 3,038,270, 6–12–62, Cl. 40—78.
Nagel, Herbert N. Auxiliary hanger for telephone handsets. 3,021,396, 2–13–62, Cl. 179—146.
Nagel, Horst, and W. Veith, to Metallgesellschaft Aktiengesellschaft. Sinter grate carriage. 3,038,712, 6–12–62, Cl. 266—21.
Nagel, Konrad: *See*—
Ziegler, Karl, Gellert, and Nagel. Re. 25,179.
Nagel, Lester L. Adjustable leg rest. 3,065,992, 11–27–62, Cl. 297—439.
Nagel, Roland: *See*—
Ibing, Rolf, Luft, and Nagel. 3,024,908.
Nagele, Karl F. Apparatus for feeding tape carrying slide fasteners and deburring the same. 3,025,546, 3–20–62, Cl. 18—21.
Nagely, John L. Gear pump or motor with radial pressure balancing means. 3,029,739, 4–17–62, Cl. 103—126.
Nagenborg, Heinrich, Jr., and F. G. Reuter, to Mobay Chemical Co. Buffer stop for power looms. 3,020,933, 2–13–62, Cl. 139—166.
Nager, Maxwell: *See*—
Baldwin, Douglas, Jr., and Nager. 3,067,130.
Naghski, Joseph: *See*—
Beebe, Clarence W., Happich, Naghski, and Windus. 3,027,221.
Nagin, Harry S., and D. H. Russell, to Reliance Steel Products Co. Tie element and method of making the same. 3,038,393, 6–12–62, Cl. 94—9.
Nagin, Tony. Fork lift truck pusher mechanism. 3,021,024, 2–13–62, Cl. 214—514.
Nagle, Floyd B.: *See*—
McMaster, Elmer L., Eichhorn, and Nagle. 3,058,927.
McMaster, Elmer L., and Nagle. 3,037,842.
Nagle, Floyd B., to The Dow Chemical Co. Bonding pigments to alkenyl aromatic resin granules. 3,057,751, 10–9–62, Cl. 117—100.
Nagle, Floyd B., and N. R. Ruffing, to The Dow Chemical Co. Depigmenting polymeric compositions with aldehyde settling aids. 3,070,553, 12–25–62, Cl. 260—2.3.
Nagle, Floyd B., and N. R. Ruffing, to The Dow Chemical Co. Depigmenting alkenyl aromatic polymer compositions with certain saline settling aids. 3,070,554, 12–25–62, Cl. 260—2.3.
Nagle, Francis E., Sr. Lighting fixture support. 3,039,729, 6–19–62, Cl. 248—343.
Nagle, Garrett S., and J. E. Roberson, to Reynolds Metals Co. Foil roll system. 3,049,229, 8–14–62, Cl. 206—59.
Nagle, Richard E., to Texaco Inc. Apparatus for cleaning heat exchanger tube bundles. 3,052,245, 9–4–62, Cl. 134—144.
Nagler, Robert T.: *See*—
Lappala, Risto P., and Nagler. 3,059,463.
Nagler, Stanley E. Car load. 3,023,712, 3–6–62, Cl. 105—369.
Naguszewski, Boleslaw: *See*—
Ciringione, Joseph L., and Naguszewski. 3,054,284.
Nagy, Alexander J., to Admos, Inc. Supporting structure for chutes. 3,064,784, 11–20–62, Cl. 193—38.
Nagy, David: *See*—
Nyerges, Jules, and Nagy. 3,061,146.
Nagy, George, to Ampex Corp. Linear ramp waveform generating circuit with provision to cause stepping. 3,024,-368, 3–6–62, Cl. 307—88.5.
Nagy, Gerald D.: *See*—
Casey, Edmund J., Lake, and Nagy. 3,068,310.
Nagy, John, Jr., to Daystrom, Inc. Combination protective cover and standard for an instrument. 3,058,612, 10–16–62, Cl. 220—60.
Nagy, Roland L.: *See*—
Slyngstad, Charles E., and Nagy. 3,053,753.
Nagy, Roland L., and L. F. Rice, to The M. W. Kellogg Co. Fluid systems for contacting solid particle material with gaseous and vaporous material. 3,053,641, 9–11–62, Cl. 23—288.
Nagy, Stephen J., to Marbelite Co., Inc. Controller. 3,030,-165, 4–17–62, Cl. 312—311.
Nahas, Gabriel G. Process of treating acidosis with T.H.A.M. 3,055,805, 9–25–62, Cl. 167—65.
Nahay, Lawrence P., to Radio Corp. of America. Automatic variable impedance network for use in changing the time constant of a phase comparator. 3,064,142, 11–13–62, Cl. 307—88.5.
Nahill, George F.: *See*—
Maury, Lucien G., and Nahill. 3,044,844.
Maury, Lucien G., and Nahill. 3,044,853.
Nahin, Paul G., to Union Oil Co. of California. Catalytic hydrorefining or hydrocarbon oils. 3,058,896, 10–16–62, Cl. 204—154.
Nahm, Helmut: *See*—
Siedel, Walter, Nahm, and König. 3,067,247.
Naidenhoff, Noel: *See*—
Bruning, Earl F., and Naidenhoff. 3,031,213.
Nail, Walter P. Control of inflatable articles. 3,029,109, 4–10–62, Cl. 297—461.
Naimer, Hubert L.: *See*—
Helpa, Hanns. 3,054,145.
Preissler, Karl. 3,055,047.
Preissler, Karl, and Alsch. 3,044,806.
Volker, Karl. 3,029,327.
Naimer, Hubert L. Device for sealing electrical switches against splash water and the like. 3,038,054, 6–5–62, Cl. 200—168.
Naimer, Hubert L. Packing container for articles susceptible to shock. 3,055,495, 9–25–62, Cl. 206—46.
Najer, Henry: *See*—
Sindicelli, Don P. R. L., and Najer. 3,033,869.
Naka Nippon Kangyo Kabushiki Kaisha: *See*—
Sakayanagi, Somei. 3,032,855.
Nakada, Takashi. Electro-mechanical device. 3,055,271, 9–25–62, Cl. 90—4.
Nakagawa, George. Frozen strawberry package. 3,031,311, 4–24–62, Cl. 99—193.
Nakagiri, Tadahiko, to Citizen Watch Co., Ltd. System for indicating the demensions of a product. 3,026,506, 3–20–62, Cl. 340—263.
Nakagome, Takenari, and T. Komatsu, to Sumitomo Chemical Co., Ltd. Novel sulfanilylaminopyridazine derivatives and process for preparing the same. 3,053,833, 9–11–62, Cl. 260—239.7.
Nakaguchi, Kcichi. Apparatus for air-tightly leading textile fabrics into or out of a pressure chamber. 3,048,992, 8–14–62, Cl. 68—5.
Nakahara, Chuji. Jet type apparatus for classifying, dewatering and recovering slack or other fine ore. 3,058,591, 10–16–62, Cl. 209—273.
Nakahira, Hiroshi: *See*—
Kawashima, Chihiro, and Nakahira. 3,036,929.
Nakaja, Shigeo, and E. Morita, ⅜, to Kurashiki Rayon Co., Ltd., and ⅛ to Air Reduction Co., Inc. Polyvinyl alcohol fiber and method of making the same. 3,066,999, 12–4–62, Cl. 18—54.
Nakamatsu, Yoshiro. Movie system adapted for simultaneously enlarging and reducing a projected image and the area of an associated screen. 3,016,790, 1–16–62, Cl. 88—16.
Nakamatsu, Yoshiro. Apparatus for photographing and projecting a picture of a great width. 3,038,370, 6–12–62, Cl. 88—16.6.
Nakamatsu, Yoshiro. System and apparatus for the automatic recording and reproduction. 3,070,374, 12–25–62, Cl. 274—4.
Nakamura, Maso, to The Dow Chemical. Method of cleaning surfaces of resinous bodies. 3,062,689, 11–6–62, Cl. 134—6.
Nakamura, Shintaro. Mechanical ingot stripper. 3,038,222, 6–12–62, Cl. 22—95.
Nakanishi, Itaru: *See*—
Takeda, Rokuro, Nakanishi, Nawa, Uchibayashi, Kusaka, Terumichi, Uchida, Katsumata, Yoshino, and Fujitani. 3,037,915.
Nakanishi, Shunichi: *See*—
Kageyama, Ikuzo, and Nakanishi. 3,041,188.
Nakata, Arthur H., to Cenco Instruments Corp. Gas sampling valve. 3,045,702, 7–24–62, Cl. 137—625.48.

Nakata, Sigemi. Depth micrometer. 3,018,557, 1–30–62, Cl. 33—170.

Nakatani, Atsutada : *See*—
Sato, Takayoshi, and Nakatani. 3,051,064.

Nakatsuru, Kaname : *See*—
Kishi, Kanesuke, Nakatsuru, and Kawakami. 3,053,339.

Nakaya, Ezo. Electrostatic coating device. 3,059,613, 10–23–62, Cl. 118—624.

Nakayoshi, Hiroshi: *See*—
Tanaka, Ichiro, Yanagisawa, Sawada, Misawa, and Nakayoshi. 3,063,911.

Nakazawa, Shiuji. Expansible metal-plate gas-containing cell for sensing transformers with inert gas. 3,057,277, 12–4–62, Cl. 174—12.

Nakazawa, Yuzo : *See*—
Honda, Seiichi, and Nakazawa. 3,015,789.

Nakonieczny, Edward : *See*—
Slosberg, David E., and Nakonieczny. 3,017,714.

Nalbach, John R., Engineering Co. : *See*—
Weston, Lawrence G., and Lense. 3,027,922.

Nalco Chemical Co. : *See*—
Adams, Nicholas M. 3,031,749.
Baltazzi, Evan. 3,067,095.
Boles, David B., Bregman, and Newman. 3,067,024.
Bollenback, Carol H., Hunt, and Svarz. 3,021,256.
Bollenback, Carol H., Hunt, Saito, and Svarz. 3,024,159.
Braithwaite, David G., McGrew, Hettinger, and D'Amico. 3,034,994.
Braithwaite, David G., McGrew, Hettinger, and D'Amico. 3,034,995.
Bregman, Jacob I. 3,024,201.
Chamot, Walter M. 3,065,206.
Feldt, Charles A., and Kekish. 3,047,516.
Ferrara, John M. 3,052,626.
Ferrara, John M., and Ryder. 3,068,171.
Hummel, Louis E. 3,029,125.
Kirkpatrick, Willard H., and Seale. 3,042,625.
Kirkpatrick, Willard H., and Seale. 3,049,511.
Kirkpatrick, Willard H., Seale, and Church. 3,061,620.
Kirkpatrick, Willard H., Seale, and Noe. 3,047,495.
Kocher, Earl T. 3,056,748.
McGrew, Edwin H., and Hettinger. 3,061,555.
Mindick, Morris, and Oda. 3,069,340.
Phillips, Kenneth G. 3,025,290.
Phillips, Kenneth G. 3,041,338.
Reuter, Raymond, and Reven. 3,029,151.
Reuter, Raymond, and Tozydlo. Re. 25,252.
Ryznar, John W. 3,037,886.
Walker, Alfred O. 3,023,169.

Nalette, Thomas A. : *See*—
Laimond, Harold W., and Nalette. 3,069,753.

Nalle, George S., Jr. Plastic netting extrusion apparatus with oscillating contacting die elements and products of such apparatus. 3,019,147, 1–30–62, Cl. 154—46.

Nalle, George S., Jr. Molded tampon applicators. 3,034,508, 5–15–62, Cl. 128—263.

Nalle, George S., Jr. Die head for extruding plastic netting and method of extruding such netting. 3,067,084, 12–4–62, Cl. 156—167.

Nallin, Eugene J. : *See*—
Erickson, John J., and Nallin. 3,060,322.

Nallinger, Friedrich K. H., to Daimler-Benz Aktiengesellschaft. Elastic coupling. 3,023,593, 3–6–62, Cl. 64—27.

Nallinger, Friedrich K. H. Runway construction. 3,023,986, 3–6–62, Cl. 244—114.

Nallinger, Friedrich K. H., to Daimler-Benz Aktiengesellschaft. Clutch actuating mechanism. 3,035,676, 5–22–62, Cl. 192—096.

Nallinger, Friedrich K. H., to Daimler-Benz Aktiengesellschaft. Measuring instrument, especially speedometer for motor vehicles. 3,037,476, 6–5–62, Cl. 116—57.

Nallinger, Friedrich K. H. Automatically dampened shock-absorber. 3,047,309, 7–31–62, Cl. 280—124.

Nallinger, Friedrich K. H., to Daimler-Benz Aktiengesellschaft. Spring system for seats, particularly motor vehicle seats. 3,054,609, 9–18–62, Cl. 267—85.

Nallinger, Friedrich K. H., to Daimler-Benz Aktiengesellschaft. Equalization spring system for motor vehicles. 3,054,624, 9–18–62, Cl. 280—104.

Nallinger, Friedrich K. H. Tire construction. 3,057,392, 10–9–62, Cl. 152—361.

Nalon, Mitzie C. Colostomy device. 3,022,786, 2–27–62, Cl. 128—283.

Namenyi-Katz, Laszlo, to Epsylon Research and Development Co. Ltd. Apparatus for carrying out an operation according to a pattern. 3,029,974, 4–17–62, Cl. 118—2.

Namenyi-Katz, Laszlo, to Epsylon Research and Development Co. Ltd. Magnetic tape recorders. 3,032,287, 5–1–62, Cl. 242—55.17.

Namenyi-Katz, Laszlo, to Epsylon Research & Development Co. Ltd. Cassettes for magnetic recorders and recorders for use with these. 3,032,613, 5–1–62, Cl. 179—100.2.

Nameth, James F., and R. E. Stein, to Gilfillan Bros. Inc. Radar scanning system. 3,026,517, 3–20–62, Cl. 343—738.

Nametz, Richard C. : *See*—
Overbeek, Donald E., and Nametz. 3,046,297.

Nametz, Richard C., to Michigan Chemical Corp. Soil fumigation employing 1-bromo-3-chloropropane. 3,034,948, 5–15–62, Cl. 167—22.

Nametz, Richard C., to Michigan Chemical Corp. Plastic product comprising cured mixture of a brominated polyepoxide and a non-halogenated polyepoxide. 3,058,946, 10–16–62, Cl. 260—42.

Namikawa, Mamoru : *See*—
Hoshino, Yasushi, Namikawa, and Tochihara. 3,022,079.
Hoshino, Yasushi, Namikawa, and Tochihara. 3,023,010.
Hoshino, Yasushi, Namikawa, and Tochihara. 3,061,085.
Hoshino, Yasushi, Sato, Namikawa, and Tochihara. 3,022,078.

Namiki, Shingeru, to Shin-Mitsubishi Jukogyo Kabushiki Kaisha. Plate handling apparatus. 3,057,485, 10–9–62, Cl. 214—1.

Nampa, Sulo M., to Evans Products Co. Bulkhead. 3,017,842, 1–23–62, Cl. 105—376.

Nance, Victor E., to Western Electric Co., Inc. Carbon deposition apparatus. 3,057,325, 10–9–62, Cl. 118—47.

Nance, Tommy E., to Continental Air Lines, Inc. Passenger seat installed food container. 3,049,374, 8–14–62, Cl. 297—146.

Nania, Vincent A., Jr., to Bridal Originals. Bridal gowns. 3,064,268, 11–20–62, Cl. 2—217.

Nankervis, George L., Co. : *See*—
Brueckner, Alexander W. 3,034,331.

Nanna, Frank S. Machine for automatically forming and broiling hamburgers. 3,064,555, 11–20–62, Cl. 99—353.

Nansel, Harold K., to Burg Mfg. Co. Boom type spraying means. 3,055,594, 9–25–62, Cl. 239—161.

Napier, D., & Son Ltd. : *See*—
Bishop, Basil T. G. 3,062,050.
Blyth, Jack V., and Upton. 3,020,004.
Boyle, Bryan R. 3,029,112.
Buckingham, David E. J. 3,029,064.
Currant, Jack Gent, and Hunter. 3,038,822.
Currant, Jack Gent, and Hunter. 3,038,823.
Greenly, Kenneth H. 3,020,716.
Minett, Herbert H. B., and Course. 3,046,896.
Morley, Arnold W. 3,053,324.
Morley, Arnold W. 3,053,377.
Pike, Terence. 3,034,797.
Sammons, Herbert. 3,028,124.
Shirley, Walter, Ramsden, and Nixon. 3,017,745.
Watts, Harold F. B., and Coxon. 3,064,775.

Napier, Donald R. : *See*—
Acciarri, Jerry A., and Napier. 3,062,857.

Napier, Gordon E. Inline control valve. 3,043,558, 7–10–62, Cl. 251—340.

Naples, Philip V., to United Aircraft Corp. Solid differential expansion temperature sensor. 3,064,476, 11–20–62, Cl. 73—363.

Napolin, Seymour, and M. H. Harwood, to Granco Products, Inc. Tuner chassis with integral shield and condenser plate. 3,047,824, 7–31–62, Cl. 334—46.

Napolitano, Pellegrino E. Fluid seal for pressure responsive valve. 3,054,422, 9–18–62, Cl. 137—509.

Napp, Sidney M. : *See*—
Busey, James D., Garnett, Hill, and Napp. 3,063,203.

Nappi, John J. Shoe cleaning machine. 3,066,338, 12–4–62, Cl. 15—34.

Narbut, Paul, to Westinghouse Electric Corp. Inductive apparatus for utilizing gaseous dielectrics. 3,026,492, 3–20–62, Cl. 336—70.

Narda Microwave Corp., The : *See*—
McFarland, James E. 3,063,026.

Nardelli, Dominick : *See*—
Archibald, Paul B. 3,032,434.

Nardone, Romeo M. Cargo hook device. 3,056,624, 10–2–62, Cl. 294—83.

Nardulli, Michael J., to M. J. and P. F. Nardulli. Removable sash double hung window. 3,060,526, 10–30–62, Cl. 20—52.

Nardulli, Peter F. : *See*—
Nardulli, Michael J. 3,060,526.

Nario, Masaji : *See*—
Iida, Hideo, and Nario. 3,064,603.

Narisada, Masayuki : *See*—
Nagata, Wataru, Narisada, and Sugasawa. 3,055,917.

Narita, Yoshio : *See*—
Holzer, Johann, and Narita. 3,052,854.

Narken, Bernt : *See*—
O'Connell, James A., and Narken. 3,039,005.

Nash, Albert E., to Ventrola Mfg. Co. Combination heater, ventilator and light fixture. 3,028,475, 4–3–62, Cl. 219—39.

Nash, Arlo M. : *See*—
Eldridge, Arthur C., Nash, and Smith. 3,069,327.

Nash, Benjamin C. : *See*—
Bayles, William H., and Nash. 3,064,878.

Nash, Cleve C., to Stewart-Warner Corp. Electronic circuit. 3,046,508, 7–24–62, Cl. 334—15.

Nash, Dudley O., to General Electric Co. Thrust spoiler and reingestion control. 3,024,601, 3–13–62, Cl. 60—35.54.

Nash, Dudley O., to General Electric Co. Thrust reverser. 3,024,605, 3–13–62, Cl. 60—35.54.

Nash, Edward L. : *See*—
Cote, Thomas P., and Nash. 3,069,928.

Nash Engineering C. : *See*—
Adams, Harold E. 3,045,602.
Bayles, William H., and Nash. 3,064,878.

Nash, Floyd M., to Jacuzzi Bros., Inc. Hydrotherapeutic installation for swimming pools and the like. 3,067,435, 12–11–62, Cl. 4—180.

Nash, Floyd M., and J. Jacuzzi to Jacuzzi Bros., Inc. Vacuum cleaner. 3,019,462, 2–6–62, Cl. 15—1.7.

Nash, Gerald C.: *See*—
Lipp, Donald, and Nash. 3,016,902.

Nash, James G., to McCorquodale Colour Display Ltd. Apparatus for the deposition of viscous liquid materials. 3,018,724, 1–30–62, Cl. 101—171.

Nash, John C., to Marshall and Williams Corp. Tenter clip gate. 3,023,479, 3–6–62, Cl. 26—62.

Nash, John C., to Marshall and Williams Corp. Two piece tenter clip. 3,058,191, 10–16–62, Cl. 26—62.

Nash, John J., to Chromcraft Corp. Chairs. 3,025,105, 3–13–62, Cl. 297—239.

Nash, Richard L.: *See*—
Cox, Clarence E., and Nash. 3,059,832.

Nash, Richard L., and C. E. Cox, to Chicago Pneumatic Tool Co. Bearing and sealing structure for a rotary compressor. 3,059,836, 10–23–62, Cl. 230—205.

Nash, Roy F.: *See*—
Nash, Victor H. and R. F. 3,050,579.

Nash, Victor H. and R. F. Automatic files system. 3,050,579, 8–21–62, Cl. 178—5.6.

Nash, Willard L. Fire guard ceiling support. 3,062,298, 11–6–62, Cl. 169—1.

Nash, William H., and A. Van Ryan, to McGraw-Edison Co. Reclosing circuit breaker control system. 3,043,989, 7–10–62, Cl. 317—22.

Nashed, Wilson, to Johnson & Johnson. Stable aqueous salicylamide composition and method of preparing same. 3,041,239, 6–26–62, Cl. 167—65.

Nashman, Alvin E., to International Telephone and Telegraph Corp. Vehicle suspension and stabilizing system. 3,029,089, 4–10–62, Cl. 280—124.

Nashner, Sydney, deceased (H. Odle, executor), and F. A. Forward, to Sherritt Gordon Mines Ltd. Sulfur recovery. 3,034,864, 5–15–62, Cl. 23—224.

Nashua Corp.: *See*—
Aubrey, Howard W., and Cudhea. 3,046,882.
Eisenberg, Arnold J., and Fraser. 3,064,959.
Goodwin, Harlan F., Labounty, and Lysik. 3,066,459.

Nashua Industrial Machine Corp.: *See*—
Gidge, Lester. 3,053,467.

Nassau Distributing Co., Inc.: *See*—
Futterknecht, Rudolf. 3,038,995.

Nassimbene, Ernest, to The Gates Rubber Co. Method of curing reinforced rubber-like products. 3,040,383, 6–26–62, Cl. 18—53.

Nassour, Edward. Means for producing animated photographs. 3,068,615, 12–18–62, Cl. 46—241.

Nassovia Werkzeugmaschinenfabrik G.m.b.H.: *See*—
Kintzel, Gerhard. 3,053,965.

Naster, Bert K. Voltage regulators. 3,021,473, 2–13–62, Cl. 323—45.

Nasti, Frank L.: *See*—
Ardis, Alan E., Nasti, and Vaitekunas. 3,036,122.
Doyle, Britton H. 3,043,486.

Nasvytis, Pius J.: *See*—
De Marco, Robert F., and Nasvytis. 3,068,928.

Nasvytis, Pius J., to The Cyril Bath Co. Stretch forming machine with trolley supplied power unit on stretch carriage. 3,017,916, 1–23–62, Cl. 153—40.

Natansohn, Samuel: *See*—
Baird, Donald H., Dymon, and Natansohn. 3,030,307.

Natelson, Samuel, to Scientific Industries, Inc. Automatic chemical analyzer. 3,036,893, 5–29–62, Cl. 23—230.

Nathan, Alan H.: *See*—
Hogg, John A., and Nathan. 3,031,476.
Magerlein, Barney J., and Nathan. 3,068,246.

Nathan, Bernard, to Hamilton Glass Co. Window assembly machine. 3,032,866, 5–8–62, Cl. 29—208.

Nathan, Emanuel, to The Opticase Co. Holder for contact lenses. 3,025,950, 3–20–62, Cl. 206—5.

Nathan, Emanuel, to The Opticase Co. Spectacle case. 3,050,181, 8–21–62, Cl. 206—5.

Nathan, Gerd, to Atlantic Research Corp. Coupling device. 3,027,631, 4–3–62, Cl. 29—250.

Nathan, Marvin F., to The M. W. Kellogg Co. Fluidized carbonization. 3,032,477, 5–1–62, Cl. 202—27.

Nathan, Marvin F., E. W. Howard, and H. G. McGrath, to The M. W. Kellogg Co. Hydrocarbon destructive hydrogenation of heavy hydrocarbon. 3,043,769, 7–10–62, Cl. 208—112.

Nathan, Tracy D., to Hamilton Kent Mfg. Co. Gasket and use thereof. 3,046,028, 7–24–62, Cl. 277—208.

Nathansohn, Giangiacomo, to Lepetit S.p.A. Δ^2-androstene and eticholene compounds and process for preparing same. 3,025,309, 3–13–62, Cl. 260—397.4.

Nathanson, Herman S. Temperature-controlled timer. 3,034,282, 5–15–62, Cl. 58—22.9.

Nathanson, Herman S., to Scientific Equipment Mfg. Corp. Temperature controlled timing device. 3,059,410, 10–23–62, Cl. 58—22.9.

Nathanson, Philip: *See*—
Gould, Arthur S., and Nathanson. 3,019,592.

Nathanson, Philip. Scouring pads. 3,038,187, 6–12–62, Cl. 15—118.

Nathe, Raymond J., to Otarion Listener Corp. Electric switches. 3,051,763, 9–4–62, Cl. 200—8.

Natho, Paul J.: *See*—
Anderson, Clifford E., and Natho. 3,064,940.

Natho, Paul J., to Pan American Petroleum Corp. Surface controlled subsurface tubing pressure shut-off valve. Re. 25,109, 1–2–62, Cl. 166—72.

Natho, Paul J., to ACF Industries, Inc. Valve. 3,028,878, 4–10–62, Cl. 137—556.

Natho, Paul J., to ACF Industries, Inc. Top entry ball valve. 3,067,978, 12–11–62, Cl. 251—172.

Natho, Paul J., and R. G. Quast, to ACF Industries, Inc. Combined accumulator-relief valve. 3,064,687, 11–20–62, Cl. 138—31.

Nation, Harry J.: *See*—
Hamblin, Henry J., and Nation. 3,020,893.

National Acme Co., The: *See*—
Bour, William E. 3,058,193.
Dobes, Michael J. 3,053,950.
Dobes, Michael J. 3,059,071.
Hradek, Edward J., and Brown. 3,041,641.

National Aircraft Corp.: *See*—
Harr, Jesse. 3,038,189.

National Alloys Ltd.: *See*—
Pedler, Alan E. 3,041,254.

National Aluminate Corp.: *See*—
Mindick, Morris, and Patzelt. 3,069,728.

National Automatic Tool Co., Inc.: *See*—
Bargren, Lavern. 3,032,932.
Swanson, Floyd A. 3,025,642.

National Automation Corp.: *See*—
Platzman, Michael M., and Keefe. 3,051,079.

National Bakers Services: *See*—
Lilien, Kazimir K., and Glabe. 3,037,865.

National Bank Book Co.: *See*—
Schade, Frank S. 3,035,587.

National Bank of Commerce of Charleston, The: *See*—
Douglas, Stuart D. 3,068,210.

National Bank of Commerce of Seattle: *See*—
Putnam, Edgar G., and Greaves. 3,034,576.

National Bank of Westchester, White Plains, executor: *See*—
Kapian, Philip. 3,048,078.

National Biscuit Co.: *See*—
Monahan, Edward J., and Peckham. 3,047,206.
Morck, Roland A. 3,057,730.
Peckham, Harry E. 3,069,066.

National Bone and Tissue Laboratories, Inc.: *See*—
Tucker, Eli J., Jr. 3,022,783.

National Broach & Machine Co.: *See*—
Anthony, Russel W. 3,060,811.
Anthony, Russel W., and Beckman. 3,064,809.
Bassoff, Arthur B. 3,017,876.
Beckman, Joel M., Jr. 3,041,006.
Bregi, Benjamin F. 3,034,219.
Bregi, Benjamin F. 3,054,226.
Bregi, Benjamin F., and Bassoff. 3,059,544.
Bregi, Benjamin F., and Gates. 3,048,066.
Daniel, David W. 3,050,078.
Davis, Bernard V. 3,068,713.
Davis, Bernard V. 3,068,714.
Davis, Kenneth J. 3,017,728.
Gates, Thomas S. 3,046,705.
Gates, Thomas S. 3,068,759.
Jubelt, Warren L. 3,021,644.
Mentley, Max B. 3,068,619.
Pernack, Frank, and Bassoff. 3,067,733.
Praeg, Walter S. 3,054,225.
Praeg, Walter S. 3,059,385.

National Brush Co.: *See*—
Racicot, Albert R. 3,017,649.

National Can Corp.: *See*—
Jeremiah, Earl E. 3,053,369.
Scholtz, Arthur P. 3,021,987.
Tracy, Gerald T. 3,021,976.

National Cash Register Co., The: *See*—
Amacher, Gene L., and Paugstat. 3,067,934.
Anderson, John R. 3,021,510.
Anderson, John R., and Clinehens. 3,042,997.
Andrews, Ladimer J. 3,017,102.
Andrews, Ladimer J., Edwards, and Hudson. 3,040,986.
Anthony, William H. 3,041,288.
Austen, Herman E. 3,051,930.
Bakan, Joseph A., Striley, and Maierson. 3,020,171.
Berman, Elliot, and Katchen. 3,038,812.
Berman, Elliot, and McQuain. 3,022,318.
Carnicelli, Joseph F., and Landis. 3,067,998.
Edwards, Walter G., Hudson, and Klein. 3,042,305.
Edwards, Walter G., and Klein. 3,054,988.
Fisher, Richard G., and Jones. 3,068,480.
Flint, Kenneth C., and Werner. 3,021,052.
Fowler, Roland G., Larsen, Dale, and Garvey. 3,061,692.
Garvey, Mark J., and Andrews. 3,049,293.
Garvey, Mark J., and Hartvig. 3,068,986.
Glaser, Peter S., Hudson, Edwards, and Porter. 3,040,985.
Goodemote, John E. 3,058,224.
Grosnickle, Henry, Jr., and Arnold. 3,031,188.
Haber, Harold E., and Clinehens. 3,031,648.
Happ, Georg. 3,050,245.
Hearsum, Desmond R., and Gulden. 3,047,226.
Howes, Royal E., and Higashi. 3,027,546.
Jackson, John M., Steininger, Beel, and Werner. 3,061,183.
Jorgensen, Chester N., Stork, and Turner. 3,067,930.
Katchen, Bernard, and Miller. 3,041,289.
Kneisley, Russell E., Hypes, and Flory. 3,047,219.
Montros, Eugene V., Clancy, and Brobst. 3,040,860.
Norris, Herman E. 3,064,883.
Perry, Franklin W., and Reynolds. 3,047,218.

National Cash Register Co., The: *See*—Continued
Placke, Everett H., and Mullen. 3,021,057.
Rigg, Karl F., Morgan, and Christie. 3,067,874.
Sallo, Jerome S., Fisher, Tsu, and Modi. 3,032,486.
Seidman, Jay J., and Cornell. 3,019,344.
Shamb, Gene E., and Werner. 3,015,434.
Sommer, William F., and Jackson. 3,060,846.
Springer, Lamar D. 3,067,938.
Thomas, Edward R., Sonnanstine, and Carey. 3,047,227.
Trimble, Cebern B. 3,068,455.
Trimble, Lyne S., Markakis, Nishball, and Leinberger. 3,017,234.
Tsu, Ignatius, and Sallo. 3,031,386.
Tsu, Ignatius, Sallo, Fisher, and Modi. 3,032,485.
Wendel, Franz, and Rindsfusser. 3,039,680.
Werner, Frank R., and Flint. 3,031,134.
Werner, Frank R., Randall, and Flint. 3,017,078.
Wilson, Bernard T., and Bridges. 3,041,586.
Wolfe, Albert E., Jr. 3,041,585.
Zurbuchen, Louis E., and Werner. 3,027,077.
National Casket Co.: *See*—
Nelson, Walter K. 3,060,546.
National Castings Co.: *See*—
De Penti, Kenneth L. 3,029,956.
Metzger, William J. 3,021,964.
Metzger, William J. 3,025,975.
Metzger, William J. 3,033,385.
Shafer, Arnold L. 3,025,973.
Shafer, James A. 3,023,855.
Willison, Donald. 3,034,662.
Willison, Donald, and Wyrough. 3,024,919.
Willison, Donald, and Wyrough. 3,034,659.
Wyrough, David J. 3,043,411.
Zanow, Andrey L., and Overbeke. 3,033,384.
National Chemical Products Ltd.: *See*—
Powell, Roger F., Martin, Lurie, Nichol, and Brand. 3,031,461.
Powell, Roger F., Martin, Lurie, Nichol, and Brand. 3,034,648.
National Clay Pipe Research Corp.: *See*—
Lund, H. Howard, and Levine. 3,070,110.
National Co., Inc.: *See*—
Brilliant, Martin B. 3,019,335.
Crandell, Paul A. 3,056 080.
Crandell, Paul A. 3,060,365.
George, James. 3,058,023.
Lipps, Frederick W., Jr., and Holloway. 3,060,385.
McCoubrey, Arthur O. 3,034,078.
McCoubrey, Arthur O., Holloway, Mainberger, and Guy. 3,060,384.
Orenberg, Arthur. 3,021,491.
Orenberg, Arthur. 3,042,878.
Sheftelman, Eugene H. 3,031,643.
Sproul, Robert W., and Schreuer. 3,063,011.
National Cooperatives, Inc.: *See*—
Brown, Clifford R. 3,031,108.
Fjermestad, Arnold R. 3,070,067.
National Coupling Co., Inc.: *See*—
Miller, Chalmer E. 3,058,752.
National Dairy Products Corp.: *See*—
Berndt, Lyle H., and Krett. Re. 25,264.
Doumak, Alexander J. 3,062,661.
Dragotta, Charles A., and Cereghino. 3,042,638.
Hermann, Eugene J. 3,046,140.
Malone, Anthony S. 3,064,697.
Miller, Roland E. 3,023,698.
Miller, Roland E., and Tumino. 3,027,699.
Spiess, Newton E., Jr., and Sullivan. 3,042,526.
Stine, James B. 3,020,163.
Vakaleris, Demetrius G. 3,039,879.
Ward, Paul J., Johnson, and Robertson. 3,061,442.
Wayne, Clyde D. 3,069,273.
National Distillers and Chemical Corp.: *See*—
Bostock, William T., Jr., and Johnson. 3,064,827.
Brickle, Donald J. 3,017,178.
Brickle, Donald J. 3,069,353.
Cohen, Howard J. 3,046,268.
Cohen, Howard J., and Hoyt. 3,046,267.
Cohen, Howard J., and Hoyt. 3,046,269.
Commisso, Nicholas D. 3,068,939.
Corbett, Herbert O. 3,060,515.
Dean, Ralph K., Slatkovski, and Wegner. 3,015,135.
Eck, John W., and Sucietto. 3,046,138.
Frampton, Orville D., and Robinson. 3,067,265.
Frank, Charles E., Lum, and Mador. 3,067,238.
Frank, Charles E., and Rowland. 3,061,582.
Foos, Raymond A., and Greenberg. 3,065,046.
Foos, Raymond A., and Hobin. 3,053,614.
Foos, Raymond A., and Stambaugh. 3,065,095.
Greenberg, Harry. 3,069,232.
Greenberg, Harry, and Hansley. 3,067,187.
Greenberg, Harry, and Lubowitz. 3,053,620.
Greenberg, Harry, and Rowland. 3,067,178.
Grenci, Dominic A. 3,068,935.
Groce, Irwin J. 3,057,682.
Horvitz, David. 3,053,621.
Johnson, John F. 3,068,730.
Kincaid, Joseph R. 3,060,075.
King, Paul A., and Giovannucci. 3,068,565.
Kirch, William, and Solvik. 3,070,589.
Lecher, Hans Z., Mador, and Tonne. 3,062,888.

National Distillers and Chemical Corp.: *See*—Continued
Lum, David W., Koch, and Mador. 3,069,455.
Mador, Irving L., and Rekers. 3,061,623.
Morton, Lester C. 3,068,703.
Murib, Jawad H., and Feidman. 3,067,009.
Nobis, John F., Frank, and Allgeier. 3,067,260.
Pels, Alan R., and Backofen. 3,022,525.
Pritchett, Ervin G., Mador, and Rekers. 3,062,886.
Rivman, Samuel J. and J., and Jacobs. 3,067,553.
Rowland, Stanley P. 3,067,245.
Rowland, Stanley P., and Maringer. 3,061,581.
Rowland, Stanley P., and Maringer. 3,062,769.
Steer, Donald E., and Smith. 3,034,558.
Whitney, Arthur J. 3,061,535.
National Drying Machinery Co., The: *See*—
Parkes, Ralph C., and Schlecht. 3,021,609.
National Electric Welding Machines Co.: *See*—
Salbenblatt, William F., and Gann. 3,055,151.
National Equipment Corp.: *See*—
Greenberg, Robert L. 3,033,387.
National Exhaust Purifier Co., Inc.: *See*—
McLoughlin, James H. 3,063,096.
National Eye Research Foundation: *See*—
Filderman, Irving P. 3,027 803.
National Folding Carton and Tube Co.: *See*—
Cochran, Frederick A. 3,028,044.
National Furniture Mfg. Co.: *See*—
Quakenbush, Howard M. 3,068,495.
National Gypsum Co.: *See*—
Dansereau, Francis C. 3,059,796.
Einhiple, John A. 3,066,542.
Seymour, Robert D. 3,068,111.
Shank, David L. 3,029,911.
Sowinski, Gerard T. 3,059,735.
National Heater Co., Inc.: *See*—
Costello, George T., Dickinson, Dreher, and Nicklas. 3,049,173.
National Industri, Aktieselskabet: *See*—
Ingvaldsen, Bernt. 3,046,376.
Lange, Emil. 3,016,437.
Roscelli, Gertrude A. 3,036,936.
National Industrial Products Co.: *See*—
Hecox, William, and Martin. 3,061,026.
National Lead Co.: *See*—
Clearfield, Abraham. 3,057,678.
Doll, Donald P., Griffin, and Libera. 3,053,625.
Dunn, Edward J., Jr. 3,028,250.
Firing, Peter C. 3,058,673.
Gordon, Elliot G., and Konig. 3,050,499.
Herman, Daniel F. 3,027,392.
Herman, Daniel F., Resnick, and Simone. 3,050,504.
Janulionis, Anthony D. 3,035,927.
Kaufman, Daniel, and McMullen. 3,031,440.
Linz, Arthur, Jr. 3,037,150.
Miericke, Kurt A. 3,027,265.
Moore, Pernell J. 3,041,591.
Moore, Pernell J. 3,050,449.
Oppegaard, Assur G., Hauge, and Aas. 3,050,362.
Orsino, Joseph A., and Dunn. 3,017,447.
Orsino, Joseph A., and Dunn. 3,050,408.
Pitrot, Adrian R. 3,031,323.
Simone, Dominic, and Herman. 3,037,004.
Simone, Dominic, and Herman. 3,053,817.
Siuta, Walter T. 3,035,966.
Stuchell, Harry S., Jordan, and Offeman. 3,027,322.
Stuchell, Harry S., Jordan, and Offeman. 3,027,323.
National Lock Co.: *See*—
Erkert, James S. 3,019,758.
Larson, Robert S. 3,045,465.
Ostrom, Martin E. 3,064,847.
National Machinery Co., The: *See*—
Friedman, Robert G. 3,031,698.
National Marketing Machine Co., The: *See*—
McCafferty, Edward A. 3,066,105.
National Mine Service Co.: *See*—
Robbins, Wilbar D. 3,038,710.
National Missile and Electronics Inc.: *See*—
Sisk, Glenn A. 3,038,985.
National Plastic Products Co., Inc.: *See*—
Genovese, Anthony L. 3,033,479.
National Potash Co.: *See*—
Jackson, Frank L., Fisher, and Jordan. 3,037,624.
National Pressed Steel Roofing Co.: *See*—
Strong, Raymond B. 3,067,722.
National Presto Industries, Inc.: *See*—
Soper, La Vern G., and Harris. 3,022,411.
National Radiac, Inc.: *See*—
Meier, Wilber L., and Harvey. 3,032,657.
National Refill Co., Inc.: *See*—
Le Brun, George K. 3,047,994.
National Research Associates, Inc.: *See*—
Beardsley, Melville W. 3,039,550.
National Research Corp.: *See*—
Allen, Lloyd R., Baer, and Clough. 3,049,421.
Baer, Charles A., Clough, and Steeves. 3,016,873.
Blanton, Jack W. 3,029,132.
Cerych, John Z., Clough, and Steeves. 3,029,777.
Cerych, John Z., Clough, and Steeves. 3,065,958.
Clough, Philip J. 3,043,715.
Eng, Albert, Hnilicka, Light, and Walsh. 3,040,702.
Farkass, Imre. 3,058,232.

National Research Corp. : *See*—Continued
Fincham, Christopher J. B. 3,024,095.
Hnilicka, Milo J., Jr. 3,018,016.
Keller, Wayne H., and Martin. 3,031,295.
Mckinley, Donald W. R., Kusters, and Morse. 3,066,284.
Rochrig, Jonathan R., and Simons. 3,065,060.
Simons, John C., Jr. 3,046,936.
Stauffer, Robert A. 3,043,728.
Steeves, Robert W. 3,063,858.
Vanderschmidt, George F. 3,018,376.
Vanderschmidt, George F. 3,018,435.
Vanderschmidt, George F. 3,018,436.
Vaughan, John T. 3,055,959.
Walsh, Arthur G. 3,019,129.
Winston, Arthur W. 3,047,416.
National Research Council : *See*—
Baines, William D. 3,023,425.
Barnes, James C. 3,058,219.
Dauphinee, Thomas M. 3,065,418.
Dobrowolski, Jerzy A. 3,039,362.
Kiem, George J., Fischer, and Turner. 3,040,748.
Redhead, Paul A. 3,061,368.
Redhead, Paul A. 3,068,402.
Richards, Roger S. 3,030,946.
Smyth, Henry L. R., Makow, and Keays. 3,022,418.
National Research Development Corp. : *See*—
Abraham, Edward P., Newton, and Hale. 3,049,541.
Bergel, Franz, and Stock. 3,032,584.
Bergel, Franz, and Stock. 3,032,585.
Bowes, Robert C., and Gill. 3,052,845.
Burch, James M. 3,028,787.
Burkin, Alfred R., Meddings, and Sawyer. 3,061,407.
Cannon, Alastair. 3,053,589.
Chambers, Hubert H., and Tantram. 3,068,311.
Clayden, David O. 3,059,850.
Danielli, James F., and Owen. 3,057,850.
Davis, Charles H., and Stringer. 3,032,267.
Ede, Ainsley N. 3,032,903.
Eden, George E., and Melbourne. 3,044,300.
Elford, William E., and Fearon. 3,058,792.
Evans, James C., Morgan, Nickols, Garratt, Mason, and Atkins. 3,026,714.
Eynon, George T. 3,056,416.
Finnamore, Alan J. 3,022,394.
Fletcher, Archibald W. 3,055,754.
Glaister, Raymond M. 3,028,248.
Hamblin, Henry J., and Nation. 3,020,893.
Hill, Joseph J. 3,052,846.
Jones, Richard N., and Nadeau. 3,036,215.
Kennard, Olga, and Woodgate. 3,028,496.
Kenneford, Arthur S. 3,070,438.
Kilburn, Tom, and Edwards. 3,053,452.
Lake, David B. 3,050,997.
Leat, James H., Robarts, and Gibbs. 3,049,195.
Lewis, Thomas M. 3,024,659.
Lord, George W. 3,055,219.
Lovelock, James E. 3,046,396.
McGee, James D. 3,043,974.
McGee, James D. 3,062,962.
Morton, Charles R., Horitz, and Nicholas. 3,023,094.
Newman, Edward A., and Stringer. 3,048,334.
Nichols, John W. De L., and MacKellar. 3,056,548.
Ord, Geoffrey, and Lewis. 3,031,587.
Pearce, Derek C. K., and Tolmon. 3,044,740.
Petherick, Edward J. 3,025,509.
Pirt, Stanley J., and Cslow. 3,015,612.
Rawcliffe, Gordon H. 3,049,653.
Rawcliffe, Gordon H. 3,065,395.
Rawcliffe, Gordon H. 3,070,734.
Robin, Harold K. 3,020,342.
Royle, Joseph K. 3,016,064.
Royle, Joseph K. 3,027,705.
Royle, Joseph K. 3,062,593.
Royle, Joseph K., and Nellist. 3,039,579.
Russell, Graham, and Uttley. 3,045,911.
Scales, John T., and Winter. 3,042,037.
Stinger, John B. 3,034,722.
Sullivan, Ralph M. E. 3,021,082.
Taylor, Wilfred K. 3,016,518.
Timms, Cecil, Aitchison, and Sayce. 3,054,902.
Warcell, Donald. 3,065,891.
Webster, Harold. 3,035,087.
Williams, Frederic C. 3,046,471.
Williams, Frederic C. 3,054,941.
Williams, Frederic C., Laithwaite, and Eastham. 3,040,-226.
National Rubber Machinery Co. : *See*—
Brundage, James W., and Mallory. 3,065,499.
Ewing, Bruce W., Mallory, and Sapp. 3,051,220.
Heston, Eugene E., and Mundy. 3,036,335.
Mallory, Edwin E. 3,031,353.
Mallory, Edwin E., and Brundage. 3,065,503.
National Scientific Laboratories, Inc. : *See*—
Singer, Jerome R. 3,017,612.
National Smelting Co. Ltd., The : *See*—
Davey, Thomas R. A. 3,031,296.
Lumsden, John. 3,017,261.
National-Standard Co. : *See*—
Lang, Ernest U. 3,049,308.
Lang, Ernest U. 3,052,274.
Lang, Ernest U. 3,061,236.
Shook, Donald H. 3,051,362.
Strozewski, Richard J. 3,051,221.
White, John W. 3,016,322.
National Starch and Chemical Corp. : *See*—
Armour, Walter B. 3,041,301.
Ducharme, Joseph J., Black, and Leith. 3,052,545.
Goldberg, Albert I., Fertig, and Stanley. 3,059,024.
Goldberg, Albert I., Loebel, and Jasinski. 3,030,326.
Kronfeld, Jerome. 3,052,561.
McKee, Ian K., and Herbst. 3,034,911.
Rutenberg, Morton W., Jarowenko, and Ross. 3,038,895.
Rutenberg, Morton W., and Wurzburg. 3,061,551.
Sirota, Julius. 3,058,836.
Wurzburg, Otto B., and Kruger. 3,058,853.
National Steel Corp. : *See*—
Baer, Charles A., Clough, and Steeves. 3,063,865.
Collins, Tappan. 3,057,286.
Elia, Edward, and Rasch. 3,061,978.
Gacs, Peter T. 3,033,098.
Hoadley, Lemuel D., McGrath, and Morgan. 3,053,524.
Johnston, Samuel S., and Freas. 3,026,884.
Kerber, William. 3,052,934.
Kompart, Walter W. 3,048,504.
Rasch, Herman R., and Cummins. 3,019,861.
Uhleen, Arthur E. 3,022,459.
Uhleen, Arthur E. 3,053,725.
Wright, Wilbert H. 3,061,357.
Zulkoski, Bruno P. 3,027,308.
National Store Fixture Co., Inc. : *See*—
Scher, Stanford S. 3,045,256.
National Super Service Co., The : *See*—
Rosenberg, Edward N. 3,063,082.
National Tank Co. : *See*—
Brown, James O. 3,065,880.
Lavery, Charles A., and Holt. 3,055,157.
Gibb, John F. 3,036,728.
Glasgow, Clarence O. 3,045,506.
Glasgow, Clarence O. 3,070,023.
Henderson, Knox B., and Brown. 3,040,572.
Maher, Joseph L., and Baker. 3,045,899.
Swearingen, Judson S., and Levin. 3,041,843.
Walker, Jay P., and Glasgow. 3,021,709.
Walker, Jay P., and Glasgow. 3,043,072.
National Tea Packing Co., Inc. : *See*—
Irmscher, Hans O. 3,047,397.
Irmscher, Hans O. 3,053,665.
National Telephone Supply Co., The : *See*—
Klein, Charles H. 3,017,905.
National Textile Research, Inc. : *See*—
Brooks, Jefferson D., III. 3,037,218.
National Ultrasonic Corp. : *See*—
Gley, Paul R. 3,052,244.
National Union Electric Corp. : *See*—
Waller, Lyle G. 3,031,545.
National Vendors, Inc. : *See*—
Holstein, Alvin W. 3,028,994.
Holstein, Alvin W., and Schuller. 3,028,940.
Pryor, Harry H. 3,033,446.
Pryor, Harry H. 3,066,827.
Schuller, James T. 3,053,370.
Schuller, James T. 3,054,493.
National Video Corp. : *See*—
Giacchetti, Anacleto D., and Isenberg. 3,051,782.
National Vulcanized Fibre Co. : *See*—
Mains, Gerald H., McGinnis, and Tatnall. 3 022.203.
Nationale de Construction Aeronautiques, Sud-Aviation, Societe : *See*—
Robert, Andre C. 3,032,760.
Natonek, László. Self-driving vibrating capacitor with an auxiliary electrode. 3,015,769, 1–2–62, Cl. 318—128.
Natronzellstoff und Papierfabriken AG : *See*—
Arenbeck, Helmut. 3,033,439.
Natser Corp. : *See*—
Klein, Peter M. 3,061,090.
Natta, Giulio, L. Porri, and L. Fiore, to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Homogeneous polymerization catalysts based on cobalt and polymerization of diolefins therewith. 3,016,371, 1–9–62, Cl. 260—94.3.
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Natural Rubber Producers' Research Association, The : *See*—
Cunneen, John I., and Watson. 3,062,802.
Naud, Ernest O. Skyline carriage locking means and release therefor. 3,018,738, 1–30–62, Cl. 105—151.
Nauen, Alfred, and H. Halverscheid, to H. Ziller. Device for connecting the ends of conveyor belts. 3,052,448, 9–4–62, Cl. 254—53.
Naugle, Lawrence H. Bathing accessory. 3,024,486, 3–13–62, Cl. 15—222.
Naul, Robert F., and J. W. De Fore, to Texaco Inc. Apparatus for operating an underground storage reservoir for liquefied petroleum gas. 3,068,884, 12–18–62, Cl. 137—172.

Nault, Joyce D., to The Dow Chemical Co. Method for the control of undesirable vegetation. 3,067,022, 12–4–62, Cl. 71—2.3.

Naumann, Henry A., and P. W. Kelley. Money changer. 3,062,349, 11–6–62, Cl. 194—93.

Naumann, Kurt: *See*—
Schwarz, Gerhard, and Naumann. 3,069,366.

Naumann, Rudolf: *See*—
Bartholomaus, Werner, Hessler, and Naumann. 3,043,412.

Nauschutz, Peter, E. Planitzer, and W. Schindler, to Bolkow-Entwicklungen K.G. Protective means for rocket-propelled missiles. 3,069,975, 12–25–62, Cl. 89—1.7.

Nauschutz, Peter, E. Planitzer, and W. Schindler, to Bolkow-Entwicklungen K.G. Transporting rocket-propelled missiles. 3,070,016, 12–25–62, Cl. 102—50.

Nautec Corp.: *See*—
Leiderman, George J. 3,059,837.
Sollenberger, Lester D. 3,027,866.
Sollenberger, Lester D., and Sciacero. 3,056,544.

Nava, Joseph A.: *See*—
Bunn, Alvin R., and Nava. 3,029,407.

Nava, Joseph A., and L. A. Archer, to The Pyle-National Co. Electrical connector. 3,017,597, 1–16–62, Cl. 339—64.

Nava, Joseph A., and R. L. Hune, to Pyle-National Co. Multi-conductor connector. 3,068,443, 12–11–62, Cl. 339—217.

Navara, Vaclav, to Kovo-Finis, narodni podnik. Valve arrangement for a metal spraying gun. 3,030,982, 4–24–62, Cl. 137—630.19.

Navarro, Richard A. Battery terminals. 3,042,891, 7–3–62, Cl. 339—45.

Navatta, Cono S., G. E. Smith, and H. L. Etlinger, to Thomas Electronics, Inc. Cathode ray tube. 3,018,400, 1–23–62, Cl. 313—82.

Navigation Computer Corp.: *See*—
Jones, John P., Jr. 3,015,734.
Paulovitz, Albert C. 3,031,738.

Navikas, Charles R., to Union Carbide Corp. Insulation wrapping machine. 3,019,573, 2–6–62, Cl. 53—27.

Navikas, Victor A., to Armstrong Cork Co. Method of making a plastic lined crown. 3,029,765, 4–17–62, Cl. 113—80.

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Navo Industrial Corp.: *See*—
Lowther, Wilfred W. 3,048,959.

Nawman, Rollie B., to Benner-Nawman, Inc. Automatic pallet loader. 3,054,515, 9–18–62, Cl. 214—6.

Nawoj, Edward J.: *See*—
Richter, John W., and Nawoj. 3,033,202.

Naworski, Richard P.: *See*—
Darr, Donald E., and Naworski. 3,022,271.

Nawrath, Günter, R. Schnegg, and O. Haberstroh, to Farbenfabriken Bayer Aktiengesellschaft. Apparatus for melting polyamide shreds. 3,015,480, 1–2–62, Cl. 263—11.

Nawrot, James J., to The Bendix Corp. Brake actuating mechanism. 3,023,853, 3–6–62, Cl. 188—78.

Nawroth, George. Hair dryer. 3,046,673, 7–31–62, Cl. 34—100.

Naxon, Irving. Electric heaters. 3,020,386, 2–6–62, Cl. 219—42.

Naxon, Irving. Character-transmission means for traveling message signs. 3,041,597, 6–26–62, Cl. 340—339.

Nay, James A., to General Dynamics Corp. Conductivity cell tester. 3,052,839, 9–4–62, Cl. 324—30.

Nayak, Ullal G., K. K. Chakravarti, and S. C. Bhattacharyya, to Council of Scientific and Industrial Research. Process for the preparation of azelaic acid semi-ester suitable for making civetone dicarboxylic acid. 3,070,625, 12–25–62, Cl. 260—485.

Naydan, Bob N.: *See*—
Paradise, Ronald Y., and Naydan. 3,042,911.

Naydan, Bob N., and R. Y. Paradise, to General Precision, Inc. Analog accelerometer feedback loop for deriving velocity information in digital form. 3,028,550, 4–3–62, Cl. 324—70.

Nayhouse, Alfred, T. Frankert, and J. J. Long. Metal panel fence. 3,045,976, 7–24–62, Cl. 256—24.

Nayler, John H. C.: *See*—
Doyle, Frank P., and Nayler. 3,043,831.
Doyle, Frank P., Nayler, and Rolinson. 3,025,290.
Doyle, Frank P., Nayler, and Rolinson. 3,040,632.
Doyle, Frank P., Nayler, and Rolinson. 3,047,467.

Nayler, Peter: *See*—
Lacey, Richard N., and Nayler. 3,049,565.

Nayler, Peter, to The Distillers Co. Ltd. Production of linalyl acetate. 3,017,429, 1–16–62, Cl. 260—489.

Naylor, Arthur F.: *See*—
Balish, Frank R., McGarrell, Miller, and Naylor. 3,023,371.

Naylor, Arthur F., to Thompson Ramo Wooldridge Inc. Precision variable frequency generator. 3,023,373, 2–27–62, Cl. 331—40.

Naylor, Arthur F., to Thompson Ramo Wooldridge Inc. Precision variable frequency generator. 3,024,425, 3–6–62, Cl. 331—38.

Naylor, Arthur F. Hydraulically and spherically supported inertial reference. 3,056,303, 10–2–62, Cl. 74—5.34.

Naylor, Floyd E., to Phillips Petroleum Co. Polymerization of 1,3-butadiene with a $TiCl_4$-$MoCl_5$-ZnR_2 catalyst. 3,067,188, 12–4–62, Cl. 260—94.3.

Naylor, Ralph A., to American Cyanamid Co. Heat-treating rubber compositions with a chlorinated amine promoter. 3,070,571, 12–25–62, Cl. 260—41.5.

Naz, John F. Biopsy device. 3,037,495, 6–5–62, Cl. 128—2.

Nazareth, Alfred, Jr.: *See*—
Cressey, John R., Peterson, Nazareth, and Lawler. 3,051,932.
Cressey, John R., Peterson, Nazareth, and Lawler. 3,051,933.

Nazarus, Stanley: *See*—
Dieter, Wesley E., Golden, and Nazaruk. 3,045,861.

Nazarewicz, Walter: *See*—
Pindzola, Daniel, Nazarewicz, and Beesch. 3,050,247.

Nazurian, Alex. Door latch and lock. 3,044,816, 7–17–62, Cl. 292—221.

Neanderland, Adolph C.: *See*—
Mallanik, Allan R., Neanderland, Osborn, and Ralla. 3,053,930.

Neal, Albert D., to Strollee of California, Inc. Oscillatory baby crib. 3,044,079, 7–17–62, Cl. 5—102.

Neal, Byron A., and C. R. Neal, Jr. Portable shower. 3,067,434. 12–11–62, Cl. 4—147.

Neal, Cecil R., Jr.: *See*—
Neal, Byron A., and C. R. Neal, Jr. 3,067,434.

Neal, Earl S. Toilet dispenser. 3,023,426, 3–6–62, Cl. 4—228.

Neal, Frank, to R. Hoe & Co., Inc. Offset printing plate clamp. 3,020,842, 2–13–62, Cl. 101—415.1.

Neal, Frank, to R. Hoe & Co., Inc. Printing machine ink rail. 3,046,885, 7–31–62, Cl. 101—350.

Neal, Frank, and J. Bryer, to R. Hoe & Co., Inc. Folding mechanisms. 3,055,657, 9–25–62, Cl. 270—77.

Neal, Frank, and H. Pilliz, to R. Hoe & Co., Inc. Printing machine ink pumping system. 3,065,693, 11–27–62, Cl. 101—366.

Neal, Franklin M.: *See*—
Hoxie, John P., and Neal. 3,047,716.

Neal, Harry E., to Amarlite Corp. Wall structure. 3,068,970, 12–18–62, Cl. 189—46.

Neal, James, to P. M. Fay. Ear ornament with three-point resilient support within the tragus, the anti-tragus and the anti-helix. 3,041,656, 7–3–62, Cl. 63—14.

Neal, James L. and M. P., and S. V. Dice, to A-B-C Packaging Machine Corp. Packaging machine and method. 3,063,209, 11–13–62, Cl. 53—29.

Neal, Morris P.: *See*—
Neal, James L. and M. P., and Dice. 3,063,209.

Neal, Rene B. Lint removing device. 3,056,154, 10–2–62, Cl. 15—104.

Neal, Richard D., and C. W. Cromwell, Jr., to American Enka Corp. Power stop controls. 3,065,518, 11–27–62, Cl. 28—51.

Neal, William A. Numeral base conversion device. 3,055,121, 9–25–62, Cl. 35—31.

Neale, David J.: *See*—
Francis, Frederick G., and Neale. 3,034,917.

Neale, Denis M., to Ilford Ltd. Production of colour prints. 3,051,069, 8–28–62, Cl. 95—73.

Neale, Harry E. Cable lashing machine. 3,057,600, 10–9–62, Cl. 254—134.3.

Neale, John R., Jr.: *See*—
Ketner, William H., and Neale. 3,050,133.

Neale, Junius B., to General Electric Co. Automatic wire-breaking device. 3,048,315, 8–7–62, Cl. 225—106.

Nealy, Robert M. Adjustable magazine. 3,037,638, 6–5–62, Cl. 211—49.

Neander, Erich, to American Messer Corp. Photoelectric tracer apparatus employing side by side photoelectric cells. 3,069,550, 12–18–62, Cl. 250—202

Neapolitakis, Nicholas T., to Shurhit Products, Inc. Transistorized ignition system. 3,018,413, 1–23–62, Cl. 315—206.

Nearing, J. A., Co., Inc.: *See*—
Nearing, James A. and J. L. 3,024,569.

Nearing, James A. and J. L., to J. A. Nearing Co., Inc. Greenhouse bench. 3,024,569, 3–13–62, Cl. 47—18.

Nearing, James L.: *See*—
Nearing, James A. and J. L. 3,024,569.

Neasham, Robert S. Electrooptical apparatus for photographic verification. 3,054,854, 9–18–62, Cl. 178—6.7.

Neasham, Robert S. Aerial navigation track display. 3,070,792, 12–25–62, Cl. 343—5.

Neblett, Richard F., and W. E. Lovett, to Esso Research and Engineering Co. Motor fuel composition. 3,054,666, 9–18–62, Cl. 44—58.

Nebout, Noël, to Dunlop Rubber Co. Ltd. Apparatus for storing and processing strips of rubber and the like sheet materials. 3,026,230, 3–20–62, Cl. 156—128.

Nebout, Nöel, to Dunlop Rubber Co. Ltd. Tire manufacture apparatus. 3,032,093, 5–1–62, Cl. 156—402.

Necchi Societa per Azioni: *See*—
Bono, Luigi. 3,045,682.
Bono, Luigi. 3,019,750.
Bono, Luigi. 3,033,138.
Bono, Luigi. 3,054,368.

Nechine, Leonard M., to FMC Corp. By-pass for pumping apparatus. 3,015,279, 1–2–62, Cl. 103—11.

Nechine, Leonard M., to FMC Corp. Cutting plunger pump. 3,026,813, 3–27–62, Cl. 103—157.

Nechtow, Mitchell J., M. Zimberoff, and W. J. Reich. Catamenial calendar. 3,069,081, 12–18–62, Cl. 235—89.

Neckar, Albert E.: *See*—
Bell, Wilton O., and Neckar. 3,054,797.

Nedelec, Lucien : *See*—
Bertin, Daniel, and Nedelec. 3,056,778.
Nederlands-Amerikaanse Fittingfabriek, N.V. : *See*—
Cruson, Izaak P. 3,055,464.
Nederlandsche Combinatie voor Chemische Industrie, N.V. : *See*—
De Jongh, David K., Kraaijeveld, van Leeuwen, and Micheis. 3,026,321.
Nederlandse Centrale Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek, The : *See*—
Slijpestein, Antje K. 3,022,216.
Te Velde, Thes S. 3,055,965.
Nederlandse Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek ten behoeve van de Volksgezondheid : *See*—
De Heer, Tallechienus, and Erkelens. 3,064,473.
Frauenberger, Johannes. 3,045,986.
Nederlandse Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek Ten Behoeve van Nijverheid : *See*—
De Waard, Pieter, and Van Jaarsvelt. 3,063,019.
Van Jaarsvelt, Willem A. J., and De Waard. 3,030,576.
Nedopil, Erich : *See*—
Ragoss, Alfred, Fitzer, Nedopil, and Buhmann. 3,035,-308.
Nee, Michael J. Actuator. 3,051,143, 8–28–62, Cl. 121—48.
Needham, Basil A., to Thermway Industries, Inc. Curtain wall. 3,057,989, 10–9–62, Cl. 219—34.
Needham, Gideon M. Drain digger. 3,021,621, 2–20–62, Cl. 37—92.
Needham, Howard H. : *See*—
Hendricksen, Warren, and Needham. 3,016,462.
Needham, Howard H., deceased (by M. Needham, executrix), to A. O. Smith Corp. Multi-layer vessel having a neutron absorbing layer. 3,016,963, 1–9–62, Cl. 220—108.
Needham, Howard H., to A. O. Smith Corp. Method of forming a multi-layer head. 3,052,021, 9–4–62, Cl. 29—471.1.
Needham, Howard H., deceased; by M. Needham, administratrix, to A. O. Smith Corp. Closure for a pressure vessel. 3,062,491, 11–6–62, Cl. 220—46.
Needham, Margaret : *See*—
Hendricksen, Warren, and Needham. 3,016,462.
Needham, Howard H. 3,016,463.
Needham, Howard H. 3,062,401.
Needham, Robert L., and J. B. Upham, to General Motors Corp. Dynamoelectric machine insulation system. 3,038,-093, 6–5–62, Cl. 310—179.
Needle Industries Ltd. : *See*—
Duffin, Bernard G., and Sanders. 3,019,500.
Sanders, Norman T. 3,039,684.
Sanders, Norman T. 3,049,982.
Needs, Sydney J., and J. Corby, Jr., to Kingsbury Machine Works, Inc. Kingsbury type thrust bearing assembly for concentric shafts. 3,070,411, 12–25–62, Cl. 308—160.
Neef, Walter, to The Toledo Pipe Threading Machine Co. Chuck. 3,031,201, 4–24–62, Cl. 279—114.
Neefe, Charles W., to Neefe-Hamilton Research Co., Inc. Method of casting a spectacle bridge and nose guard and apparatus therefor. 3,027,598, 4–3–62, Cl. 18—36.
Neefe, Charles W., to Neefe-Hamilton Research Co. Contact lens of apparent variable light absorption. 3,034,403, 5–15–62, Cl. 88—54.5.
Neefe-Hamilton Research Co., Inc. : *See*—
Neefe, Charles W. 3,027,598.
Neefe, Charles W. 3,034,403.
Neel, Robert M., U. R. Jaeger, and C. A. Isbell, Jr. Fabrication of hollow articles. 3,067,491, 12–11–62, Cl. 29—157.3.
Neelands, Lewis J., and C. R. Woods, to General Electric Co. Frequency difference discriminator. 3,035,231, 5–15–62, Cl. 329—124.
Neeley, Howard B. Grease container. 3,019,065, 1–30–62, Cl. 308—187.
Neely, Eugene M., to William M. Bailey Co. Water cooled gas burner valves for hot blast stoves. 3,070,152, 12–25–62, Cl. 158—109.
Neely, George L., to California Research Corp. Engine start number accumulator. 3,032,264, 5–1–62, Cl. 235—91.
Neely, Richard S., to Lord Mfg. Co. Water pump shaft seal. 3,028,813, 4–10–62 Cl. 103—117.
Neely, Richard S., to Lord Mfg. Co. Pump. 3,054,355, 9–18–62, Cl. 103—117.
Neely, Richard S., to Lord Mfg. Co. Outboard motor. 3,054,-375, 9–18–62, Cl. 115—12.
Neely, William H., to Hoover Ball & Bearing Co. Tubular frame rail. 3,022,522, 2–27–62, Cl. 5—353.7.
Neely, William H., to Hoover Ball & Bearing Co. Trim connecting means. 3,040,343, 6–26–62, Cl. 5—353.2.
Neely, William H., to Hoover Ball & Bearing Co. Method of bending tubular members. 3,042,099, 7–3–62, Cl. 153—2.
Neely, William H., to Hoover Ball & Bearing Co. Wire spring structure. 3,044,831, 7–17–62, Cl. 297—454.
Neely, William H., to Hoover Ball & Bearing Co. Wire reinforcement member for cushions. 3,051,471, 8–28–62, Cl. 267—81.
Neenan, Charles J., to Columbia Broadcasting System, Inc. Self-normalling video jack. 3,020,365, 2–6–62, Cl. 200—51.09.
Neer, Clifford H., to Burt Machine Co., Inc. Carton erecting and loading mechanism. 3,067,556, 12–11–62, Cl. 53—186.
Nees, Hugo : *See*—
Brandt, Fritz, Nees, and Liebrecht. 3,032,407.
Neesby, Torben E. : *See*—
Knafo, Guy, Fuhrmann, Neesby, and Babayan. 3,021,324.
Neff, Darby B., and J. F. Dykes, to American Brake Shoe Co. Method of connecting a piston shoe permanently to a piston. 3,049,800, 8–21–62, Cl. 29—441.
Neff, Darby B., and J. F. Dykes, to American Brake Shoe Co. Balanced piston shoe. 3,049,940, 8–21–62, Cl. 74—569.
Neff, Gene M., to John Oster Mfg. Co. Vibratory foot massaging machine. 3,043,294, 7–10–62, Cl. 128—33.
Neff, Gordon W. : *See*—
Slobodzinski, Edwin J., and Neff. 3,066,231.
Neff, Richard F., to The Lord Baltimore Press, Inc. Container and means and means for making same. 3,050,229, 8–21–62, Cl. 229—16.
Neff, Russell F. : *See*—
Bevis, George E., Hungerford, and Neff. 3,039,420.
Neff, Russell M., to General Motors Corp. Coil spring suspension with auxiliary overload bumper. 3,069,149, 12–18–62, Cl. 267—32.
Negishi, Eizaburo. Automatic doffing and donning. 3,030,-761, 4–24–62, Cl. 57—52.
Negoro, Kaiji, to Continental Can Co., Inc. Variable orifice extrusion die. 3,019,481, 2–6–62, Cl. 18—5.
Negoro, Kaiji, to Continental Can Co., Inc. Plastic snap-on reclosure cover. 3,065,875, 11–27–62, Cl. 220—60.
Negri, Franco, to Ing. C. Olivetti & C., S.p.A. Rotary type dry shaver having a cylindrical grill. 3,050,851, 8–28–62, Cl. 30—43.
Neher, Eldon P. : *See*—
Fleming, Earl L., Neher, and Slemmons. 3,066,503.
Neher, Eugen S., to Daimler-Benz Aktiengesellschaft. Control mechanism for controlling the temperature in combustion turbines. 3,064,422, 11–20–62, Cl. 60—39.28.
Neher, Herbert J., to American Truck Body Co. Apparatus for transporting stacks of brick and the like. 3,036,721, 5–29–62, Cl. 214—75.
Neher, Maynard B., and V. G. Vely, to Titekote Corp. Leather treatment process and composition. 3,066,997, 12–4–62, Cl. 8—94.21.
Neher, Robert : *See*—
Reichstein, Tadeus, Wettstein, Anner, Billeter, Heusler, Neher, Schmidlin, Ueberwasser, and Wieland. 3,033,-858.
Reichstein, Tadeus, Wettstein, Anner, Billeter, Heusler, Neher, Schmidlin, Ueberwasser, and Wieland. 3,035,-049.
Wettstein, Albert, Neher, De Saulles, Vischer, and Wieland. 3,033,748.
Wettstein, Albert, Neher, Vischer, and Wieland. 3,033,-749.
Wettstein, Albert, Vischer, Kahnt, Meystre, and Neher. 3,060,100.
Nehrich, Richard B., Jr. Electroluminescent light. 3,046,432, 7–24–62, Cl. 313—108.
Neibaur, Roderick W., to Jennings Radio Mfg. Corp. Vacuum variable capacitor. 3,040,220, 6–19–62, Cl. 317—245.
Neider, F. A., Co., The : *See*—
Arnold, Frederick N. 3,025,631.
Neidhardt, Hans U., to H. A. Schlatter Aktiengesellschaft. Control arrangement for gas-discharge tubes. 3,056,903, 10–2–62, Cl. 315—203.
Neidhardt, Karl, to Heinr Auer, Muhlenwerke K.G.a.A. Delivery device for the slideways of silos for bagged or piece goods. 3,029,917, 4–17–62, Cl. 193—40.
Neidhardt, Rudolf, and H. Wlodarczak, to Triumph Werke Nurnberg A.G. Combined typewriter and marking mechanism. 3,030,009, 4–17–62, Cl. 234—35.
Neidig, Daniel : *See*—
Kent, Richard P., and Neidig. 3,062,406.
Neidl, Georg. Rotary pump with oblique rotor. 3,060,862, 10–30–62, Cl. 103—103.
Neidl, Georg. Pumping and comminuting machine. 3,067,-960, 12–11–62, Cl. 241—255.
Neidleman, Saul L., to Olin Mathieson Chemical Corp. Process for the production of demethyltetracyclines. 3,061,522, 10–30–62, Cl. 195—80.
Neier, Reinhard, to Sandoz Ltd. Metal-complex dyestuffs. 3,040,019, 6–19–62, Cl. 260—145.
Neighorn, Roy G., and T. A. Olson, to Omack Industries, Inc. Apparatus for forming hollow rivets from an annular blank. 3,048,861, 8–14–62, Cl. 10—11.
Neil, Hugh G. : *See*—
Hertel, Kenneth L., and Neil. 3,065,664.
Neil, Hugh G., to The University of Tennessee Research Corp. Apparatus for determining physical properties of porous material. 3,065,629, 11–27–62, Cl. 73—38.
Neild, Alton B., Jr. Seal for engine cylinder liner. 3,018,-765, 1–30–62, Cl. 123—41.83.
Neill, David R. : *See*—
Cox, David E., and Williams. 3,024,053.
Neill, Ronald H., and C. Woolf, to Allied Chemical Corp. Production of chlorofluoropropane. 3,047,641, 7–31–62, Cl. 260—653.7.
Neilon, Claude R., to Armco Steel Corp. Well pumping apparatus and packer assemblies therefor. 3,037,456, 6–5–62, Cl. 103—46.
Neils, Josette M. Geometrical diaper. 3,029,816, 4–17–62, Cl. 128—284.
Neilsen, Peter C. Tubeless tire bead seating apparatus. 3,039,518, 6–19–62, Cl. 157—1.21.
Neilson, Elmer O., to Mercil Plating Equipment Co. Precious metal plating barrel. 3,058,902, 10–16–62, Cl. 204—213.

Neilson, Jay C., to Gardner Machines, Inc. Reciprocating system and valve therefor. 3,049,147, 8–14–62, Cl. 137—622.

Neiman, Mary, to Kops Bros., Inc. Panty girdle. 3,035,585, 5–22–62. Cl. 128—524.

Neiman, Robert: *See*—
Steinbock, Edmund A., Neiman, and E. A. Steinbock, Jr. 3,064,309.

Neipert, Marshall P.: *See*—
Blue, Robert D., Sweeny, and Neipert. 3,019,279.

Neir, Theron E., to General Motors Corp. Concentric valve internal combustion engine. 3,049,191, 8–14–62, Cl. 184—6.

Neisler, Irwin, and Co.: *See*—
Cavallito, Chester J., and Gray. 3,022,308.
Cavallito, Chester J., and Gray. 3,055,939.
Gray, Allan P., and O'Dell. 3,063,902.

Neiswinter, James T., to The Pioneer Electric & Research Corp. Telegraph hub repeater circuit. 3,033,929, 5–8–62, Cl. 178—73.

Neitzel, Joseph C., to The Murray Co. of Texas, Inc. Cotton press assembly. 3,040,653, 6–26–62, Cl. 100—50.

Neitzel, Robert E., to General Electric Co. Correlated bypass inlet and outlet control for a supersonic reaction powerplant. 3,032,977, 5–8–62, Cl. 60—35.6.

Nelden, Richard M.: *See*—
Langlois, Henry J., Nelden, and Ragland. 3,023,581.

Nelken, Harvey H.: *See*—
Brister, Paul M., and Nelken. 3,060,908.

Nelkin, Arthur: *See*—
Conley, Charles P., and Nelkin. 3,049,087.
Laing, Joseph T., and Nelkin. 3,041,451.

Nellis, Charles N., Jr., P. D. Kegel, and B. E. Black, to Cherry-Burrell Corp. Heat transfer apparatus. 3,041,046, 6–26–62. Cl. 257—292.

Nellis, Urban P.: *See*—
Miller, Andrew J., Nellis, and Waymire. 3,020,661.

Nellis, William M.: *See*—
Stout, Glenn M., and Nellis. 3,055,611.
Stout, Glenn M., and Nellis. 3,055,612.

Nellis, William M., to American Monarch Corp. Pulse former. 3,033,998, 5–8–62, Cl. 307—88.5.

Nellist, Brian D.: *See*—
Royle, Joseph K., and Nellist. 3,039,579.

Nellist, Brian D., to The English Electric Co. Ltd. Electrical time-overcurrent relays. 3,036,248, 5–22–62, Cl. 317—166.

Nelsen, Richard M., to American Radiator & Standard Sanitary Corp. Balanced pressure rotor vane. 3,037,459, 6–5–62, Cl. 103—115.

Nelson, Adolph J.: *See*—
Grembecki, Elmer C., and Nelson. 3,049,997.

Nelson, Alfred M.: *See*—
Alden, Allen P., Nelson, and Stern. 3,024,982.
Azari, Eric, Gray, Malin, Nelson, and Thompson. 3,029,021.
Hayes, Robert M., Nelson, Wiener, and Armstrong. 3,021,005.

Nelson, Alfred M., to The Magnavox Co. Card processing apparatus. 3,025,056, 3–13–62, Cl. 271—61.

Nelson, Alfred M., H. M. Stern, and J. B. Wiener, to The Magnavox Co. Card processing system. 3,016,239, 1–9–62, Cl. 271—5.

Nelson, Alfred M., and J. B. Wiener, to The Magnavox Co. Card processing system. 3,023,895, 3–6–62, Cl. 209—72.

Nelson, Alfred M., and J. B. Wiener, to The Magnavox Co. Card processing system. 3,032,750, 5–1–62, Cl. 340—174.1.

Nelson, Alfred M., and H. M. Stern, to The Magnavox Co. Card processing system. 3,039,681, 6–19–62, Cl. 235—61.1.

Nelson, Alfred M., H. M. Stern, and D. H. Westermeier, to Magnavox Co. Card processing apparatus. 3,041,066, 6–26–62. Cl. 271—5.

Nelson, Alfred R.: *See*—
Jankowiak, Erwin M., and Nelson. 3,042,665.

Nelson, Alfred W.: *See*—
Walker, James D., and Nelson. 3,028,816.

Nelson, Alvin I., to International Minerals & Chemical Corp. Apparatus for treating meats such as poultry. 3,035,508, 5–22–62, Cl. 99—257.

Nelson, Alvin I., J. N. McGill, and M. P. Steinberg, to International Minerals & Chemical Corp. Method of producing dehydrated cooked potatoes. 3,063,849, 11–13–62, Cl. 99—207.

Nelson, Andrew F., to The Budd Co. Extensometer clamping device. 3,029,489, 4–17–62, Cl. 24—263.

Nelson, Archie A., and L. K. Scholl, to United States Smelting Refining and Mining Co. Rotor tube assembly. 3,041,050, 6–26–62, Cl. 259—107.

Nelson, Arthur W. Automobile towing device. 3,051,337, 8–28–62, Cl. 214—86.

Nelson, Arthur W. Towing device. 3,066,946, 12–4–62, Cl. 280—79.1.

Nelson, August L. Bicycle with seat reciprocating mechanism. 3,025,080, 3–13–62, Cl. 280—226.

Nelson, B. F., Mfg. Co., The: *See*—
Schenk, Walter E. 3,050,908.

Nelson, Brooks E., to The Osborn Mfg. Co. Brush construction. 3,036,323, 5–29–62, Cl. 15—183.

Nelson, Carl A.: *See*—
Detwiler, Harry S., and Nelson. 3,048,004.

Nelson, Carl A., to Hamilton Watch Co. Contact mechanism. 3,060,675, 10–30 62, Cl. 58—28.

Nelson, Carl R. Dehorner. 3,026,613, 3–27–62, Cl. 30—245.

Nelson, Carroll H. Stock waterer. 3,027,872, 4–3–62, Cl. 119—81.

Nelson, Charles V.: *See*—
Erickson, Harold E., N. E. and C. V. Nelson, and Schubert. 3,019,478.
Erickson, Harold E., N. E. and C. V. Nelson, and Schubert. 3,019,479.

Nelson Chemicals Co.: *See*—
Eisenberg, David J., and Mauthner. 3,020,125.

Nelson, David G., to Aluminum Co. of America. Release and transfer device. 3,018,593, 1–30–62, Cl. 53—67.

Nelson, Douglas C., to The Cuban-American Sugar Co. Esterification. 3,023,183, 2–27–62, Cl. 260—30.2.

Nelson, Dwight M. Rear view mirrors. 3,029,701, 4–17–62, Cl. 88—77.

Nelson, Earl C.: *See*—
Hodge, John E., and Nelson. 3,015,654.
Hodge, John E., and Nelson. 3,054,805.

Nelson, Earl W., to American Cyanamid Co. Combustion of titanium tetrachloride with oxygen. 3,022,137, 2–20–62, Cl. 23—202.

Nelson, Earl W., and T. J. Crossley, to American Cyanamid Co. Prevention of formation of incrustations during oxidation of ferric chloride. 3,030,365, 8–21–62, Cl. 23—200.

Nelson, Earl W., J. E. Bondurant, and G. C. Marcot, to American Cyanamid Co. Titanium dioxide pigment and compositions containing the same. 3,062,621, 11–6–62, Cl. 23—202.

Nelson, Earl W., and W. E. Trees, to American Cyanamid Co. Oxidation of unreacted chlorine in titanium tetrachloride manufacture. 3,067,005, 12–4–62, Cl. 23—87.

Nelson, Edward A., to Monsanto Chemical Co. Molding powder comprising polystyrene, white inorganic pigment and finely divided metal powder. 3,041,303, 6–26–62, Cl. 260—41.5.

Nelson, Edward C., and N. R. Griffing, to Union Carbide Corp. Decarburization process for high-chromium steel. 3,046,107, 7–24–62, Cl. 75—59.

Nelson, Edward D., to Spotnails, Inc. Dimpler mechanism for fastener driving machines. 3,027,560, 4–3–62, Cl. 1—48.

Nelson, Erlo C. Releasing fish point. 3,036,395, 5–29–62, Cl. 43—6.

Nelson, Eugene L., to Tecumseh Products Co. Fuel supply means for engines. 3,042,013, 7–3–62, Cl. 123—73.

Nelson, Floyd E. Self-loading and unloading vehicle. 3,049,378, 8–14–62, Cl. 298—14.

Nelson, Forrest A.: *See*—
Kane, Ralph W., Nelson, and Rogers. 3,017,544.

Nelson, Forrest A., to Varian Associates. Magnet adjusting method and apparatus. 3,056 070, 9–25–62, Cl. 317—158.

Nelson, George, and C. R. Pollock, to Herman Miller, Inc. Multi-piece formed furniture construction. 3,027,195, 3–27–62, Cl. 297—418.

Nelson, George, and C. R. Pollock, to Herman Miller, Inc. Leg structure for furniture. 3,032,307, 5–1–62. Cl. 248—194.

Nelson, George, and J. F. Pile, to Herman Miller Inc. Suspended furniture. 3,043,642, 7–10–62, Cl. 312—111.

Nelson, George D.: *See*—
Gemmell, Robert J., and Nelson. 3,028,216.

Nelson, George E. N.: *See*—
Clegier, Alex, Hall, and Nelson. 3,025,221.

Nelson, George L., to Bird Machine Co. Apparatus for screening. 3,053,391, 9–11–62, Cl. 210—304.

Nelson, George M. Beet topping machine. 3,031,833, 5–1–62, Cl. 56—238.

Nelson, George M. Tractor logging hook. 3,069,738, 12–25–62, Cl. 24—123.

Nelson, George R.: *See*—
Kallander, Ernest L., and Nelson. 3,049,463.

Nelson, Gorman R. Sprinkling meter. 3,036,780, 5–29–62, Cl. 239—65.

Nelson, Gustave T.: *See*—
Hale, Arthur N., Nelson, and Edwards. 3,063,770.

Nelson, Hans H. Cigarette holder pin. 3,017,890, 1–23–62, Cl. 131—259.

Nelson, Harold B., and F. R. Scripture, to United States of America, Air Force. Voltage monitor. 3,046,455, 7–24–62, Cl. 317—149.

Nelson, Harold H., and A. R. Kotz, to Minnesota Mining and Mfg. Co. Heat-sensitive recorder. 3,038,994, 6–12–62, Cl. 250—65.

Nelson, Harold T.: *See*—
Myers, Harold D., and Nelson. 3,054,691.

Nelson, Hartley, to Hartley Controls Corp. Device for supplying to a foundry sand mixer water and sand in automatically predetermined proportions according to sand temperature. Re. 25,282, 11–6–62, Cl. 22—89.

Nelson, Helen L. Braided elastic shoe string. 3,059,518, 10–23–62, Cl. 87—2.

Nelson, Herbert, to Radio Corp. of America. Semiconductor devices and method of manufacture thereof. 3,054,034, 9–11–62, Cl. 317—235.

Nelson, Herbert, and J. Bernath, to Radio Corp. of America. Semiconductor devices. 3,022,568, 2–27–62, Cl. 29—25.3.

Nelson, Herbert C., to Kimberly-Clark Corp. Float device for controlling stock level in a pressurized headbox. 3,060,955, 10–30–62, Cl. 137—202.

Nelson, Howard N., and C. B. Sitterson, Jr., to Kimberly-Clark Corp. Dispensing carton for flexible sheets. 3,019,944, 2–6–62, Cl. 221—302.

Nelson, Ivan J., to Benson Mfg. Co. Self-dispenser unit. 3,065,883, 11–27–62, Cl. 222—323.
Nelson, Jack W., and D. L. Moneypenny. Outboard motorboat transom. 3,033,153, 5–8–62, Cl. 115—17.
Nelson, James C., to Business Systems Inc. Document holder used with an accounting machine. 3,042,177, 7–3–62, Cl. 197—130.
Nelson, James F., J. Hunt, and G. I. Doty, to Logan Mfg. Co. Multi-station surface mounted plumbing fixture. Re. 25,175, 5–29–62, Cl. 4—192.
Nelson, James R., to The Babcock & Wilcox Co. Waste heat vapor generator. 3,040,720, 6–26–62, Cl. 122—510.
Nelson, James T. : *See—*
Iwersen, John E., and Nelson. 3,028,663.
Nelson, Jerome W., and H. C. Cook, to Esso Research and Engineering Co. Apparatus and method for arc welding. 3,053,975, 9–11–62, Cl. 219—130.
Nelson, Jerry A. : *See—*
Barthel, Eric, Jr., Luckenbaugh, and Nelson. 3,024,269.
Nelson, John H., to Kropp Forge Co. Method of making turbine blades. 3,029,497, 4–17–62, Cl. 29—156.8.
Nelson, John R., to Owens-Illinois Glass Co. Apparatus for forming and trimming plastic articles. 3,025,562, 3–20–62, Cl. 18—5.
Nelson, John R., to Owens-Illinois Glass Co. Method and apparatus for forming hollow plastic articles. 3,029,467, 4–17–62, Cl. 18—5.
Nelson, John R., to Mandrel Industries, Inc. Vacuum tube gate control circuit for solenoid actuated mechanism. 3,049,-648, 8–14–62, Cl. 317—123.
Nelson, John R., and M. J. Gosselin, to The Colorado Fuel and Iron Corp. Flat type sling. 3,018,128, 1–23–62, Cl. 294—74.
Nelson, John W., to Sinclair Refining Co. Lubricant composition. 3,031,402, 4–24–62, Cl. 252—51.5.
Nelson, John W., J. A. Lundquist, and D. W. Young, to Sinclair Refining Co. Process for removing aluminum chloride catalyst from polypropylene oil. 3,024,293, 3–6–62, Cl. 260—683.15.
Nelson, Joseph F. : *See—*
Shewmaker, James E., and Nelson. 3 018,236.
Wilson, Howard L., Banes, and Nelson. 3 046,247.
Nelson, Kay F., R. H. Sonnen, and E. P. Slifka, to Sperry Rand Corp. Mechanically driven wobble-plate chopper. 3,029,321, 4–10–62, Cl. 200—23.
Nelson, Keith, to Martin-Marietta Corp. Stabilizing salts for multicolor lacquers. 3,024,124, 3–6–62, Cl. 106—170.
Nelson, L. R., Mfg Co. : *See—*
Ballard, Walter W. 3,063,646.
Smeal, Donald L. 3,051,095.
Nelson Laboratories, Inc. : *See—*
Graybeal, Warren E. 3,033,126.
Nelson, Lawrence B. : *See—*
Gersie, John J., and Nelson. 3,042,640.
Malakoff, Norman L., and Nelson. 3,060,045.
Nelson, Lawrence B., and P. D. Sharpe, to Socony Mobil Oil Co., Inc. Foamed wax composition containing a major proportion of wax and a minor proportion of rubber. 3,060,136, 10–23–62, Cl. 260—2.5.
Nelson, Lawren R. Propelled sprinkling device. 3,043,520, 7–10–62, Cl. 239—189.
Nelson, Lind B. : *See—*
Berg, Edward J. M., Deubner, and Nelson. 3,025,151.
Nelson, Marcus L., to King-Seeley Thermos Co. Ice making apparatus. 3,037,311, 5–15–62, Cl. 62—320.
Nelson Marcus L., to King-Seeley Thermos Co. Ice making apparatus. 3,048,988, 8–14–62, Cl. 62—347.
Nelson, Marvin D., and D. N. Cole, to Dutton-Lainson Co. Winch construction. 3,051,446, 8–28–62, Cl. 254—186.
Nelson, Marvin O. Rear window cleaner. 3,015,518, 1–2–62, Cl. 296—91.
Nelson, Max C. : *See—*
Anderson, Melvin R., and Nelson. 3,040,994.
Nelson, Melvin E. : *See—*
Tellon, Clair W., Smith, and Nelson. 3,046,850.
Nelson, Melvin E., to Dow Corning Corp. Organosiloxane potting compounds. 3,020,260, 2–6–62, Cl. 260—46.5.
Nelson, Milton F. : *See—*
Markowitz, Jerome, and Nelson. 3,045,522.
Nelson, Morris D., to Radio Corp. of America. Color television bandpass network utilizing a cancellation trap. 3,029,400, 4–10–62, Cl. 333—77.
Nelson, Morris D., to Radio Corp. of America. Electron beam convergence apparatus. 3,048,740, 8–7–62, Cl. 315—22.
Nelson, Noel R. Precise light metering means for single lens reflex cameras. 3,060,823, 10–30–62, Cl. 95—10.
Nelson, Norman A., to Jersey Production Research Co. Fluid measuring system. 3,028,050, 4–3–62, Cl. 222—16.
Nelson, Norman A., to Jersey Production Research Co. Perforating gaging. 3,031,965, 5–1–62, Cl. 102—21.8.
Nelson, Norman E. : *See—*
Erickson, Harold E., N. E. and C. V. Nelson, and Schubert. 3,019,478.
Erickson, Harold E., N. E. and C. V. Nelson, and Schubert. 3,019,479.
Nelson, Permil N., to L. H. Ewing. Foot treating device. 3,035,570, 5–22–62, Cl. 128—25.
Nelson, Permil N., to L. H. Ewing, d.b.a. Blackhawk Co. Collapsible signal device. 3,036 377, 10–2–62, Cl. 116—63.
Nelson, Permil N., to Lynn H. Ewing, d.b.a. Blackhawk Co. Spike puller. 3,062,501, 11–6–62, Cl. 254—18.
Nelson, Raymond A. Novelty amusement device. 3,056,220, 10–2–62, Cl. 40—1.5.
Nelson, Raymond J. : *See—*
Armstrong, Philip A., Marcus, and Nelson. 3,034,102.
O'Connor, Daniel G., and Nelson. 3,029,413.
Nelson, Raymond L. Crossbow cocking device. 3,043,287, 7–10–62, Cl. 124—25.
Nelson, Richard B., to Varian Associates. Velocity modulation electron tube apparatus. 3,051,866, 8–28–62, Cl. 315—5.54.
Nelson, Richard C., to Shell Oil Co. Lubricating composition. 3,033,790, 5–8–62, Cl. 252—51.5.
Nelson, Richard C. Oil-soluble oxygen-containing polymers. 3,033,828, 5–8–62, Cl. 260—77.5.
Nelson, Richard C., to Shell Oil Co. Asphalt surfaces bearing protective coatings and process for the formation thereof. 3,068,764, 12–18–62, Cl. 94—22.
Nelson, Richard P., and L. Julson. Carton. 3,054,681, 9–18–62, Cl. 99—174.
Nelson, Robert D. : *See—*
Mader, Paul M., Nelson, and Crevling. 3,016,306.
Nelson, Robert F., to Modern Engraving and Machine Co. Embossing shells and method for producing and assembling same. 3,042,996, 7–10–62, Cl. 29—148.4.
Nelson, Robert F., to Modern Engraving and Machine Co. Method of making matched embossing rolls. 3,048,512, 8–7–62, Cl. 156—14.
Nelson, Robert J. : *See—*
Gorman, Eugene F., Meckler, Nelson, and Newman. 3,053,967.
Gorman, Eugene F., and Nelson. 3,053,968.
Nelson, Robert M. : *See—*
Fazio, Charles P., Nelson, Nickerson. 3,058,694.
Nelson, Robert M. to Merit Products, Inc. Edge guard for abrasive polishing machines. 2,048,950, 8–14–62, Cl. 51—274.
Nelson, Roger R. : *See—*
Babcock, Henry A., and Nelson. 3,023,624.
Nelson, Rolland D., to R T & E Corp. Closure and switch actuating means. 3,024,338, 3–6–62, Cl. 200—172.
Nelson, Rudolph E. Safety thumb protector. 3,029,440, 4–17–62, Cl. 2—21.
Nelson, Samuel J., to Hooker Chemical Corp. Polyhalogen containing bicyclic acrylate esters. 3,022,277, 2–20–62, Cl. 260—86.7.
Nelson, Stanley O. : *See—*
Jacobsen, Edward H., and Nelson. 3,020,047.
Nelson, Tom H. Plows. 3,063,505, 11–13–62, Cl. 172—747.
Nelson, Walter E : *See—*
Walter, Richard L., and Nelson. 3,054,925.
Nelson, Walter K., to National Casket Co. Cover supports for burial caskets. 3,060,546, 10–30–62, Cl. 27—18.
Nelson, Wilhelm H. Mat for separating stacked rolls. 3,049,245 8–14–62, Cl. 214—10.5.
Nelson, William T., and S. D. Turk, to Phillips Petroleum Co. Extractive distillation of phosphorus halide-hydrocarbon mixtures. 3,070,518, 12–25–62, Cl. 202—39.5.
Nelson, Willis M., and W. Oberheck, to Preway, Inc. Wall oven. 3,057,343, 10–9–62, Cl. 126—273.
Nelsson, Nels, to United States Gypsum Co Wall structure and improved clip for attaching boards to trussed studs. 3,025,650, 3–20–62, Cl. 50—313.
Nelsson, Nels, to United States Gypsum Co. Hollow wall construction. 3,027,605, 4–3–62, Cl. 20—4.
Nelsson, Nels, and F. K. Knohl, to United States Gypsum Co. Wall and ceiling construction. 3,056,234, 10–2–62, Cl. 50—319.
Nemec, Joseph, 50% to N. Monastyrsky. Speed reducing and reversing mechanism. 3 033,060, 5–8–62, Cl. 74—804.
Nemec, Joseph W., and S. J. Schechter, to Rohm & Haas Co. Stable anhydrous disodium ethylene bisdithiocarbamate. 3,050,439, 8–21–62, Cl. 167—22.
Nemec, Joseph W., and S. J. Schechter, to Rohm & Haas Co. Stable anhydrous disodium ethylene bisdithiocarbamate. 3,050,572, 8–21–62, Cl. 260—500.
Nemec, Joseph W., and C. H. McKeever, to Rohm & Haas Co. Stabilization of formaldehyde cyanohydrin. 3,057,903, 10–9–62, Cl. 260—465.6.
Nemecek, Ralph E., and J. A. Walko, to General Motors Corp. Power steering linkage with universal joint. 3,064,751, 11–20–62, Cl. 180—79.2.
Nemesnyik, John C. : *See—*
Wade, Roger, Nemesnyik, and Brown. 3,028,790.
Nemeth, Otto R., to Mansfield Industries, Inc. Motion picture projector film feeding and rewind apparatus. 3,018,-976, 1–30–62, Cl. 242—55.12.
Nemeth, Otto R. Method and apparatus for editing television tape. 3,030,441 4–17–62, Cl. 178—6.6.
Nemeth, Otto R., to Mansfield Industries, Inc. Motion picture shutter. 3,069,968, 12–25–62, Cl. 88—19.3.
Nemetsky, Irving B., and J. Schorr. Stock exchange game. 3,058,747, 10–16–62, Cl. 273—134.
Nemire, Richard W., and C. R. Recob, Sr. Hanger clamp. 3,058,713, 10–16–62, Cl. 248—228.
Nemoede, Donald P. : *See—*
Baker, Thomas R., and Nemoede. 3,067,924.
Nemoede, Paul A., to Container Corp. of America. Stack of interfolded sheet units. 3,043,472, 7–10–62, Cl. 221—48.
Nemphos, Speros P. : *See—*
Beaulieu, Raymond D., Nemphos, and Popielski. 3,069,-367.

Nemsky, Philip. Portable bank. 3,070,290, 12–25–62, Cl. 2:2—4.
Nentwig, Joachim: *See*—
Schnell, Hermann, and Nentwig. 3,061,592.
Nenz, Adriano: *See*—
Gechele, Giovanni B., Nenz, and Barberis. 3,020,284.
Neo Products Corp.: *See*—
Greiman, George Y., R. D. and R. W. Frye, and Burd. 3,024,677.
Neolon Corp.: *See*—
Park, Edwin A., and Kamiss. 3,039,001.
Neo-Ray Products, Inc.: *See*—
Zingone, Anthony E. 3,050,162.
Neotechnic Engineering Ltd.: *See*—
Gawthrop, Alan. 3,033,425.
Gawthrop, Alan. 3,052,382.
Gawthrop, Alan. 3,058,629.
Nepera Chemical Co., Inc.: *See*—
Duesel, Bernard F., Emmanuele, and Kadesch. 3,064,058.
Wilbert, Godfrey, and Sosis. 3,028,429.
Nerracher, Otto W. Schmidt, and M. W. Winicov, to West Laboratories, Inc. Anionic iodine complexes. 3,039,916, 6–19–62, Cl. 167—17.
Nerath Otmar: *See*—
Cvikl, Ernst, and Nerath. 3,026,602.
Nerath, Otmar. Truss girders of round steel. 3,032,153, 5–1–62, Cl. 189—37.
Nerenberg, Robert W.: *See*—
Bergstein, Frank D., and Nerenberg. 3,054,716.
Nerge, Wilhelm, to Leybold-Horhvakuum-Anlagen G.m.b.H. Process and system for removing condensable vapors. 3,027,051, 4–3–62, Cl. 54—15.
Nerheim, Arvie G., to Standard Oil Co. Sample introduction system for gas chromatography apparatus. 3,063,286, 11–13–62, Cl. 73—23.
Nerheim, Arvie G., and E. B. Tucker, to Standard Oil Co. Gas density balance. 3,050,984, 8–28–62, Cl. 73—30.
Nerhus, Harold: *See*—
Buus, Melvin L., and Nerhus. 3,044,692.
Neri, Dino, and C. J. Nicastro. Dispensing apparatus for a plurality of liquids to make a rainbow cocktail. 3,067,912, 12–11–62, Cl. 222—76.
Nerison, James R., to Frontier Electronics. Automatic radio direction finder. 3,023,411, 2–27–62, Cl. 343—118.
Nerwin Henry N., Jr., and B. H. Robinson, Jr., to Magnaflux Corp. Visible indicator for sonic thickness measuring apparatus. 3,065,631, 11–27–62, Cl. 73—67.8.
Nerwin, Hubert: *See*—
Lee, Charles M., Guenther, and Nerwin. 3,027,818.
Nerwin, Hubert, to Eastman Kodak Co. Automatic exposure control system for photographic cameras. 3,046,860, 7–31–62. Cl. 95—10.
Nerwin, Hubert, and J. H. Eagle, to Eastman Kodak Co. Automatic exposure control for photographic camera. 3,054,337. 9–18–62. Cl. 95—10.
Nesbitt, Ethan A.: *See*—
Gyorgy, Ernst M., and Nesbitt. 3,067,029.
Nesbitt, George G., to Denver Wood Products Co. Article support. 3,018,004. 1–23–62, Cl. 211—170.
Nesbitt, George G., to Denver Wood Products Co. Connectors. 3,031,727. 5–1–62. Cl. 20—92.
Nesbitt, John D.: *See*—
Huebler, Jack, Cone, Dailey, and Nesbitt. 3,024,015.
Nesbitt, John D., to Midland-Ross Corp. Method of high speed heating. 3,043,368. 7–10–62, Cl. 158—117.5.
Nesbitt, William A. Floating platform. 3,031,997, 5–1–62, Cl. 114—.5.
Nesbitt-Dufort, Timothy, to Ernest Scragg & Sons Ltd. Textile processes. 3,016,678, 1–16–62, Cl. 57—34.
Nesemann, Georg: *See*—
Ruschig, Heinrich, Schorr, Fussganger, Bauer, and Nesemann. 3,057,881
Schorr, Manfred, Fussganger, Nesemann, and Bauer. 3,054,822.
Nesenger, Ella S.: *See*—
Redfield, George E. 3,027,111.
Nesh, Florence. Dissipation of high frequency vibratory energy. 3,058,015, 10–9–62. Cl. 310—8.7.
Nesky, Clarence J. Swingable water fountain. 3,032,272, 5–1–62, Cl. 239—24.
Nesmith, Malcolm F. Welding apparatus. 3,032,639, 5–1–62. Cl. 219—125.
Ness, Dwight O. Wrench. 3,059,513, 10–23–62, Cl. 81—119.
Ness, Franklin A.: *See*—
Kagen, Kenneth S., and Ness. 3,031,122.
Ness, Irving S., to Personal Products Corp. Absorbent dressing. 3,056,406, 10–2–62. Cl. 128—290.
Ness, James M., to R. O. Kent Corp. Cushioned seat ventilator. 3,051,966, 9–4–62. Cl. 5—347.
Nessel, Jiri M., to Capitol Records, Inc. Balance control system for stereo amplifier. 3,039,062, 6–12–62, Cl. 330—84.
Nesselbush, Robert C., and C. J. Turansky, to United States of America, Air Force. Regulator system for controlling the flow of two independent fluids. 3,058,482, 10–16–62, Cl. 137—95.
Nesta, Salvatore J.: *See*—
Howe, Nathaniel S., Davis, Smith, Nesta, and Pulsifer. 3,066,330.
Nestaway Inc.: *See*—
Glezen, Lewis E. 3,018,002.
Glezen, Lewis E. 3,018,993.
Mutto, Theodore R. 3,053,549.
Mutto, Theodore R. 3,066,813.
Nester, Ralph M. Clamp. 3,064,325, 11–20–62, Cl. 24—19.
Nestic, John M., to Eaton Mfg. Co. Closure device. 3,027,043, 3–27–62, Cl. 220—40.
Nestor, Ontario H.: *See*—
Gage, Robert M., Nestor, and Yenni. 3,016,447.
Nesty, Glenn A.: *See*—
Pietrusza, Edward W., Nesty, and Pinter. 3,037,002.
Netex Mink Ranches, Inc.: *See*—
Werblud, Maurice. 3,032,415.
Neth, Floyd T., to Kalvar Corp. Crystalline polyolefin base for photosensitive material. 3,037,862, 6–5–62, Cl. 96—75.
Netherton, Lowell E.: *See*—
Schlaeger, Julian R., and Netherton. 3,066,056.
Netherwood, Paul H., and L. L. Rice, to Sprague Electric Co. Electrostatic capacitor. 3,048,750, 8–7–62, Cl. 317—258.
Netkin, Harold E.: *See*—
Crandall, Edward C., and Netkin. 3,070,732.
Netschert, Franz J.: *See*—
Russell, Fred J., and Netschert. 3,022,102.
Russell, Fred J., and Netschert. 3,026,136.
Nettco Corp.: *See*—
Lennon, John J. 3,033,056.
Nettleton, David L.: *See*—
Bensky, Lowell S., and Nettleton. 3,016,194.
Bensky, Lowell S., Nettleton, and Beard. 3,054,958.
Nettleton, David L., to Radio Corp. of America. Data input system. 3,018,042. 1–23–62, Cl. 235—61.6.
Nettleton, Felix L. Expansion joint kit. 3,045,565, 7–24–62, Cl. 94—18.
Netzel, Leonard J., to Westinghouse Electric Corp. Chip-per-tooth indicating system. 3,055,205, 9–25–62, Cl. 73—7.
Netzsch, Maschinenfabrik, Gebruder: *See*—
Brückner, Ernst. 3,031,731.
Neu, Edward A., Jr.: *See*—
Sternberg, Marvin, and Neu. 3,016,697.
Neu, Societe Anonyme des Etablissements: *See*—
Judet de la Combe, Albert. 3,026,787.
Neu, Wallace J., Pneumatic tire temperature warning device. 3,015,803. 1–2–62. Cl. 340—56.
Neubauer, Emil T.: *See*—
Hackbart, Reuben J., and Neubauer. 3,065,902.
Neubauer, Emil T., to The Trane Co. Compressor. 3,021,995, 2–20–62, Cl. 230—58.
Neubauer, Emil T., to The Trane Co. Compressor. 3,065,901, 11–27–62. Cl. 230—58.
Neubeck, Clifford E.: *See*—
Smythe, Carl V., Neubeck, and Robbins. 3,033,691.
Neuberth, John G.: *See*—
Moeller, Alvin W., and Neuberth. 3,024,463.
Neubrech, David A., and M. A. Cattaro, to Gardner Laboratory, Inc. Automatic photoelectric colorimeter. 3,020,793, 2–13–62, Cl. 88—14.
Neubrech, David A., and M. A. Cattaro, to Gardner Laboratory, Inc. Photoelectric inspection system. 3,069,013, 12–18–62. Cl. 209—111.5.
Neudeck, Howard H. Spray apparatus. 3,029,837, 4–17–62, Cl. 137—564.5.
Neudecker, Karl, and K. Thate, to Agfa Aktiengesellschaft. Camera lens tube adapter. 3,069,988, 12–25–62, Cl. 95—44.
Neuendorf, Gunter, and W. Reil, to Wilhelm F. Ott Hanbra-Werk. Container forming and sealing machine. 3,028,-796. 4–10–62 Cl. 93—12.
Neuenfeldt, Albert R. Garment hanger lock. 3,048,311, 8–7–62. Cl. 223—85.
Neuenswander, Charles B. Restraining device for cattle. 3,058,447, 10–16–62. Cl. 119—96.
Neuerburg, Willi, A. Maehler, and H. Fiedler, to Daimler-Benz Aktiengesellschaft. Fuel tank construction. 3,049,171, 8–14–62, Cl. 158—46.
Neufeld, Henry J., and J. J. Maximum-stress control lever. 3,060,763, 10–30–62, Cl. 74—524.
Neufeld Jake J.: *See*—
Neufeld, Henry J. and J. J. 3,060,763.
Neufeld, Leonard C., and A. H. Schmalfeldt, to The Delman Co. Windshield clearing system. 3,037,232, 6–5–62, Cl. 15—250.02.
Neufville, Jean M. M., and J. E. Trottier. Device for supplying a ship with electrical energy. 3,047,724, 7–31–62, Cl. 290—4.
Neugebauer, Wilhelm: *See*—
Hoegl, Helmut, Sus, and Neugebauer. 3,037,861.
Schmidt, Maximilian P., Neugebauer, and Rebenstock. 3,046,131.
Süs, Oskar, Klüpfel, Neugebauer, Tomanek, and Behmenburg. 3,041,165.
Süs, Oskar, Neugebauer, and Schmidt. 3,046,123.
Tomanek, Martha, and Neugebauer. 3,061,435.
Uhlig, Fritz, Endermann, and Neugebauer. 3,061,430.
Neugebauer, Wilhelm, and M. Tomanek, to Azoplate Corp. Light sensitive elements for the production of lithographic printing plates. 3,028,239. 4–3–62. Cl. 96—86.
Neugebauer, Wilhelm, H. Heiss, F. Uhlig, and A. Rebenstock, to Azoplate Corp. Fountain solution for planographic printing. 3,028,804. 4–10–62. Cl. 101—149.2.
Neugebauer, Wilhelm, O. Süs, and H.-R. Stumpf, to Azoplate Corp. Light-sensitive material. 3,050,387, 8–21–62, Cl. 96—33.

Neugebauer, Wilhelm, O. Süs, and A. Rebenstock, to Azoplate Corp. Presensitized printing plates and method for the production thereof. 3,050,388, 8–21–62, Cl. 96—33.

Neugebauer, Wilhelm, O. Sus, and A. Rebenstock, to Azoplate Corp. Diazo printing plates and method for the production thereof. 3,061,429, 10–30–62, Cl. 96—33.

Neugebauer, Wilhelm, O. Sus, and A. Rebenstock, to Azoplate Corp. Diazo printing plates and method for the production thereof. 3,062,644, 11–6–62, Cl. 96—33.

Neugebauer, Wilhelm, and M. Tomanek, to Azoplate Corp. Light sensitive aromatic stilbene compounds and their use in presensitized printing plates. 3,070,443, 12–25–62, Cl. 96—86.

Neugut, Jacob. Fountain glue applicator. 3,062,420, 11–6–62, Cl. 222—501.

Neuhardt, Melvin H., to The Black and Decker Mfg. Co. Split brushes and support therefor. 3,020,430, 2–6–62, Cl. 310—246.

Neuhaus, Herbert, J. Kosmider, and O. A. Weyel. Apparatus for the production in a converter of steel which may have a high carbon content. 3,061,299, 10–30–62, Cl. 266—36.

Neuhauser, William J.: *See*—
Barnes, Frederick J., and Neuhauser. 3,015,255.

Neuhauser, William J., and R. V. Villiers, to Reynolds Metals Co. Rolled metal foil treatment. 3,067,073, 12–4–62, Cl. 148—13.

Neuhuys, Thierry J. P.: *See*—
Fastre, Joseph J. J., and Neuhuys. 3,032,862.

Neukomm, Serge, and J. Bonnet, to Sasmoco S.A. Tobacco process, and product. 3,039,475, 6–19–62, Cl. 131—140.

Neumair, Joseph A.: *See*—
Clausen, Sigurd, Neumair, and Hanson. 3,033,210.

Neuman, Emanuel E.: *See*—
Kaynor, Richard S., and Neuman. 3,059,941.

Neuman, Harold L. Sleeve insert for garment. 3,037,210, 6–5–62, Cl. 2—125.

Neuman, Milton C.: *See*—
Bauer, Myron J., Erickson, Kane, Neuman, and Scheurich. 3,052,440.
Bauer, Myron J., Kane, Neuman and Scheurich. 3,022,-031.

Neuman, Milton C., to United States of America, Navy. Blast door operating piston with built-in control. 3,063,-425, 11–13–62, Cl. 121—46.

Neuman, Milton C., to United States of America, Navy. Span track-to-loader latch. 3,068,807, 12–18–62, Cl. 104—94.

Neumann, Arthur E., to M. I. Glass. Toy. 3,054,215, 9–18–62, Cl. 46—118.

Neumann, Friedrich-Wilhelm: *See*—
Wetzger, Joachim, Neumann, and Wiesner. 3,054,924.

Neumann, Georg: *See*—
Justi, Eduard, and Neumann. 3,021,378.

Neumann, Hans O.: *See*—
Ahlbor, Valter A., and Neumann. 3,018,031.

Neumann, Helmut, and P. Drost, to Siemens & Halske Aktiengesellschaft. Storing television signals. 3,037,092, 5–29–62, Cl. 179—100.2.

Neumann, Peter G., to Bell Telephone Laboratories, Inc. Error-correcting system. 3,051,784, 8–28–62, Cl. 178—23.

Neumann, Wolfram, and O. Bayer, to Bayer Aktiengesellschaft. Farbenfabriken. Polyurethane plastics. 3,058,955, 10–16–62, Cl. 260—77.5.

Neurath, Peter W.: *See*—
Wawrousek, Hans W., and Neurath. 3,065,118.

Neureiter, Norman P., to Esso Research and Engineering Co. Preparation of 2,3-diazabuta-1,3-diene. 3,067,252, 12–4–62, Cl. 260—566.

Neuschotz, Robert. Detachable connector assembly for fuel cells. 3,035,797, 5–22–62, Cl. 244—135.

Neuschotz, Robert. Frangible connector assembly for fuel cells. 3,043,542, 7–10–62 Cl. 244—135.

Neutronic Development Corp.: *See*—
Fisher, Bernard C. 3,016,411.

Neuville, Louis P. F. A.: *See*—
Boussu, Gabriel X. R., Neuville, and Saint-Frison. 3,062,259.
Boussu, Gabriel X. R., Neuville, Saint-Frison, and Peignier. 3,060,160.

Neuville, Louis P., F. A., and L. H. N. Saint-Frison, to "Michelin & Cie." Tire casings. 3,067,795, 12–11–62, Cl. 152—354.

Neuville, Morris L.: *See*—
Stevens, George D., and Neuville. 3,056,670.

Neuwirth, Paul: *See*—
Ostrov, Bernard, and Neuwirth. 3,030,619.

Neuworth, Martin B.: *See*—
Del Bel, Elsio, Heredy, and Neuworth. 3,027,345.
Hotelling, Eric B., Neuworth, and Previc. 3,027,412.

Neuworth, Martin B., and E. Del Bel, to Consolidation Coal Co. Thermoplastic resin from cresylic acids and shell molding composition therefrom. 3,026,586, 3–27–62, Cl. 22—193.

Neuworth, Martin B., R. J. Laufer, and E. P. Previc, to Consolidation Coal Co. Ortho-alkylation of phenols. 3,032,595, 5–1–62, Cl. 260—624.

Nevans, Thomas D., and W. J. Culbertson, Jr., to The Oil Shale Corp. Process and apparatus for heating solid inert heat-carrying bodies. 3,020,227, 2–6–62, Cl. 208—11.

Nevels, Dora A.: *See*—
Cotton, James F., and Nevels. 3,027,270.

Nevens, Thomas D.: *See*—
Culbertson, William J., Jr., and Nevens. 3,020,209.

Nevens, Thomas D., to The Oil Shale Corp. Plant and process for production of low temperature pumpable oil from oil shale and the like. 3,018,243, 1–23–62, Cl. 208—11.

Nevens, Thomas D., to The Oil Shale Corp. Plant and process for production of low temperature pumpable oil from oil shale and the like. 3,034,979, 5–15–62, Cl. 208—11.

Nevill, Gale E., Jr., to McEvoy Co. Globe valve. 3,037,519, 6–5–62, Cl. 137—246.12.

Nevill, Mason J., to Shell Oil Co. Apparatus for closing pipelines. 3,052,265, 9–4–62, Cl. 138—97.

Neville, Charle A., to Pavement Salvage, Inc. Means for treating bituminous pavement. 3,055,280, 9–25–62, Cl. 94—42.

Neville Chemical Co.: *See*—
Patterson, James R., Wheeler, and Freeman. 3,032,533.

Neville, Kris O.: *See*—
Lee, Henry L., Jr., and Neville. 3,025,263.

Neville, Richard G., to International Business Machines Corp. Transducer with low microphonics. 3,048,666, 8–7–62, Cl. 179—100.2.

Neville, Richard S.: *See*—
Bernstein, Isidor M., Grisewood, Van Valkenburgh, and Neville. 3,055,117.

Neville, Warren H.: *See*—
Pugsley, Hugh J., and Neville. 3,052,456.

Nevins Co., The: *See*—
Crane, William B., Jr. 3,018,879.
Crane, William B., Jr. 3,064,402.

Nevins, John E., Jr., to Hughes Aircraft Co. Slow-wave structure. 3,066,237, 11–27–62, Cl. 315—3.5.

Nevius, Searle G., to Telecomputing Corp. Resolver digitizing system. 3,068,456, 12–11–62, Cl. 340—178.

Nevius, Searle G., to Telecomputing Corp. Displacement measuring device. 3,068,457, 12–11–62, Cl. 340—200.

Nevotti, William M. Removable window. 3,022,546, 2–27–62, Cl. 20—52.2.

New, Harry E. Buoyant valve control means for flush tanks. 3,067,432, 12–11–62, Cl. 4—67.

Newallis, Peter E.: *See*—
Baker, Joseph W., Chupp, and Newallis. 3,030,264.
Baker, Joseph W., Chupp, and Newallis. 3,052,596.
Baker, Joseph W., Chupp, and Newallis. 3,057,774.
Chupp, John P., and Newallis. 3,041,365.

Newallis, Peter E., and J. P. Chupp, to Monsanto Chemical Co. Phosphonothioates. 3,058,878, 10–16–62, Cl. 167—30.

Newallis, Peter E., J. W. Baker, and J. P. Chupp, to Monsanto Chemical Co. O-(coumarinyl-3)dialkylphosphonothiates. 3,061,913, 10–30–62, Cl. 260—343.2.

Newallis, Peter E., J. W. Baker, and J. P. Chupp, to Monsanto Chemical Co. Alkynyl phosphonothioates. 3,065,125, 11–20–62, Cl. 167—22.

Newallis, Peter E., J. W. Baker, and J. P. Chupp, to Monsanto Chemical Co. Aminophosphinyl-phosphino compounds. 3,065,126, 11–20–62, Cl. 167—22.

Newallis, Peter E., J. W. Baker, and J. P. Chupp, to Monsanto Chemical Co. 1-propen-2-yl phosphinothioates. 3,070,488, 12–25–62, Cl. 167—22.

Newallis, Peter E., J. W. Baker, and J. P. Chupp, to Monsanto Chemical Co. Phosphinates. 3,070,489, 12–25–62, Cl. 167—22.

Neway Equipment Co.: *See*—
Masser, Lloyd D. 3,018,143.

Newaygo Engineering Co.: *See*—
Murphy, Oscar V. 3,063,583.
Murphy, Oscar V., and Meyer. 3,036,736.
Witte, Bernard G. 3,065,872.

Newberry, Alvin W.: *See*—
Lehan, Frank W., Sanders, and Newberry. 3,030,614.
Lehan, Frank W., Sanders, and Newberry. 3,063,017.

Newberry, Alvin W., and F. W. Lehan, to Space-General Corp. Delay line integrator network. 3,064,238, 11–13–63, Cl. 340—167.

Newberry, Meigs W., to Westinghouse Electric Corp. Dispensing apparatus. 3,036,730, 5–29–62, Cl. 221—75.

Newbold, Albert G., to Trainer Associates Inc. Groundrilling auger. 3,043,383, 7–10–62, Cl. 175—383.

Newbold, William F.: *See*—
Dwyer, John A., Newbold, Parnell, and Latham. 3,064,-191.
Werme, John V., Newbold, Parnell, and Volpe. 3,017,097.

Newbold, William F., to Minneapolis-Honeywell Regulator Co. Square root extracting integrator. 3,016,197, 1–9–62, Cl. 235—183.

Newbold, William F., to Minneapolis-Honeywell Regulator Co. Switching systems. 3,069,655, 12–18–62, Cl. 340—147.

New Britain Machine Co., The: *See*—
D'Aloisto, Elio F., and De Haas. 3,063,317.
Fenn, Raymond T. 3,063,131.
Howe, Nathaniel S., Davis, Smith, Nesta, and Pulsifer. 3,066,330.
Pekrul, Arthur F. 3,054,513.
Pethybridge, Charles A. 3,026,101.
Pethybridge, Charles A., and Pulsifer. Re. 25,158.
Pethybridge, Charles A., and Pulsifer. 3,015,116.
Stephan, Hallis N. 3 023 675.
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Newburg, Charles F., to Novo Industrial Corp. Screening process for vibratory screens. 3,049,235, 8–14–62, Cl. 209—346.

Newburn, Harold W., to FMC Corp. Peach pitter twisting head. 3,016,935, 1–16–62, Cl. 146—28.

Newbury, Max L., to E. Strasser. Support for fireplace screen. 3,061,004, 10–30–62, Cl. 160—126.

Newby, Neal D., to Bell Telephone Laboratories, Inc. Magnetic core register circuits. 3,061,818, 10–30–62, Cl. 340—172.5.

Newby, Neal D., and P. J. Sturiale, to Bell Telephone Laboratories, Inc. Magnetic core arithmetic unit. 3,061,193, 10–30–62, Cl. 235—176.

Newby, William J., and F. W. B. Porter, to The British Petroleum Co. Ltd. Hydroforming. 3,024,186, 3–6–62, Cl. 208—65.

New Castle Products, Inc.: *See*—
Kurek, Edwin J. 3,023,689.
Merrill, Bennett W. 3,062,277.
Merrill, Bennett W., Fields, and Zimmerman. 3,040,806.

Newcomb, Cyrus B., Jr., and L. J. Renas, to A. B. Chance Co. Bushing cover. 3,019,287, 1–30–62, Cl. 174—138.

Newcomb Electronics Corp.: *See*—
Wells, William H. 3,046,023.

Newcomb, Paul R. Automatic pilot for navigable craft. 3,041,995, 7–3–62, Cl. 114—144.

Newcomb, Paul R. Underwater drilling apparatus. 3,062,-014, 11–6–62, Cl. 61—46.5.

Newcomb, Philip P.: *See*—
Ledwith, Walter A., and Newcomb. 3,069,850.

Newcomb, Wallace K., and T. Warming, to Ingersoll-Rand Co. Oil sealed compressor. 3,068,707, 12–18–62, Cl. 74—18.2.

Newcomb, Ward C.: *See*—
Menter, Albion R., and Neweomb. 3,046,657.

Newcomb, Ward C. Crown for bovine teeth. 3,055,109. 9–25–62, Cl. 32—12.

Newcomer, Harold F., to Landis Tool Co. Magnetic chuck. 3,059,155, 10–16–62, Cl. 317—162.

Newcomer, Jack S.: *See*—
Dorfman, Edwin, Weil, and Newcomer. 3,021,369.
Hoch, Paul E., and Newcomer. 3 055,948.
Weil, Edward D., Dorfman, and Neweomer. 3,029,137.
Well, Edward D., Dorfman, and Newcomer. 3,048,483.

Newell, Allen F., and W. L. Stephenson, to North American Philips Co., Inc. Push-pull transistor inverter. 3,034,073, 5–8–62. Cl. 331—114.

Newell, Chester W., to Ampex Corp. Magnetic tape reproducing method. 3,020,438, 2–17–62, Cl. 178—5.4.

Newell, Chester W., to Ampex Corp. Blanking circuit. 3,040,126, 6–19–62, Cl. 178—7.2.

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Newell, Flora E., to M. N. and J. A. Brown. Traction footboard. 3,021,837, 2–20–62, Cl. 128—71.

Newell, James K., Jr., to General Electric Co. Tension mount for oven breaker frame. 3,017,488, 1–16–62, Cl. 219—37.

Newell, Kenneth F., F. Crescenzo, E. M. Chase, and C. E. Mehlhorn, to Package Machinery Co. Packaging machine. 3,061,989, 11–6–62, Cl. 53—182.

Newell, Kenneth F., F. Crescenzo, E. M. Chase, and C. E. Mehlhorn, to Package Machinery Co. Mounting means for wrapper forming instrumentalities. 3,067,555, 12–11–62, Cl. 53—180.

Newell, W. J., and J. E. Madden. Gypsum plaster. 3,042,537, 7–3–62, Cl. 106—110.

Newell, William H., to Sperry Rand Corp., Ford Instrument Co. Division. Velocity and distance indicating system. 3,049,294. 8–14–62. Cl. 235—151.

New England Materials Laboratory, Inc: *See*—
Grant, Nicholas J., and Zwilsky. 3,070,439.

New England Plastics Corp.: *See*—
Cummings, Jesse M. 3,052,945.

New England Vinegar Works, Inc., The: *See*—
Rowse, James A. 3,042,528.

Newey Bros. Ltd.: *See*—
Simpson, William. 3,050,740.

Newey, Herbert A., to Shell Oil Co. Substituted polyamines. 3,041,352. 6–26–62, Cl. 260—332.1.

Newey, Herbert A., to Shell Oil Co. Flexible epoxy resin compositions and cured products. 3,057,809, 10–9–62, Cl. 260—18.

Newhall, Henry S.: *See*—
Jamal, Victor J., and Newhall. 3,021,377.

Newhard, Nelson J., Jr., and D. Y. Dollman, to Amchem Products, Inc. Method of controlling the aluminum content of aqueous acid aluminum coating solutions. 3,061,484, 10–30–62. Cl. 148—6.16.

Newhouse, Frank J., and E. Meth, to Massey-Ferguson Ltd. Drive mechanism for swathers. 3,021,659, 2–20–62, Cl. 56—192.

Newhouse, Paul D., to Westinghouse Electric Corp. Track-while-search passive detection and direction finding apparatus. 3,040,317, 6–19–62, Cl. 343—117.

Newhouse, Vernon L., to Radio Corp. of America. Memory systems. 3,032,749, 5–1–62, Cl. 340—174.

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Newhouser, Richard: *See*—
Nicosia, Joseph P., and Newhouser. 3,044,791.

New Jersey Machine Corp.: *See*—
Von Hofe, George W., and Wolff. 3,038,391.

New Jersey Zinc Co., The: *See*—
Elder, James T., Bieling, and Blakeslee. 3,060,134.
Johnson, Raymond L. 3,054,735.
Rennhack, Elliott H. 3,052,976.
Von Hofe, George W., and Spano. 3,057,266.

Newkirk, Floyd, and R. Kowalskey. Means for heating prepared and packaged sandwiches and similar articles of food. 3,037,443, 6–5–62, Cl. 99—332.

Newkirk, Francis F., and H. L. Winslow, Jr., to St. Regis Paper Co. Laminating method and composition. 3,034,-939, 5–15–62 Cl. 154—43.

Newland, Gordon C.: *See*—
Harris, Raymond C., and Newland. 3,031,321.

Newman, Albert K.: *See*—
Anderson, Albert E., and Newman. 3,059,397.

Newman, Arthur J.: *See*—
Gorman, Eugene F., Meckler, Nelson, and Newman. 3,053,967.

Newman, Benjamin T.: *See*—
Billig, Lewis S., and Newman. 3,038,119.

Newman, Clinton C. Puncturing device for containers. 3,052,978, 9–11–62, Cl. 30—6.1.

Newman, Douglas A., to Columbia Ribbon and Carbon Mfg. Co., Inc. Novel transfer media. 3,022,880, 2–27–62, Cl. 197—172.

Newman, Douglas A., to Columbia Ribbon and Carbon Mfg. Co., Inc. Method of preparing transfer sheets. 3,031,327, 4–24–62, Cl. 117—36.4.

Newman, Douglas A., to Columbia Ribbon and Carbon Mfg. Co., Inc. Method of manufacture of paper planographic plate. 3,031,958, 5–1–62, Cl. 101—149.2.

Newman, Douglas A., to Columbia Ribbon and Carbon Mfg. Co., Inc. Duplicating ink compositions and transfer elements prepared therefrom. 3,036,924, 5–29–62, Cl. 106—14.5.

Newman, Douglas A., to Columbia Ribbon and Carbon Mfg. Co., Inc. Plastic cutting device. 3,064,111, 11–13–62, Cl. 219—19.

Newman, Douglas A., to Columbia Ribbon and Carbon Mfg. Co., Inc. Pressure sensitive transfer sheet. 3,065,099, 11–20–62, Cl. 117—36.1.

Newman, Douglas A., and H. F. E. Dixon, to Columbia Ribbon & Carbon Mfg. Co., Inc. Smudge-resistant pressure-sensitive transfer sheet and method of making. 3,017,297, 1–16–62, Cl. 117—216.

Newman, Douglas A., and A. T. Schlotzhauer, to Columbia Ribbon and Carbon Mfg. Co., Inc. Re-usable ink-releasing elements and process of making. 3,037,879, 6–5–62, Cl. 117—36.1.

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Newman, Edward A., and J. B. Stringer, to National Research Development Corp. Electrical digital computing engines. 3,048,334, 8–7–62, Cl. 235—164.

Newman, Frank C., to The Distillers Co. Ltd. Production of monochlorotetrafluoroethanes. 3,015,678, 1–2–62, Cl. 260—652.5.

Newman, Herbert G. A., and C. T. Hammond, to Redwing Ltd. Apparatus for automatically pivoting a hinged closure into closed position. 3,050,735, 8–28–62, Cl. 2—6.

Newman, Ivan V., Sr. Vaned valve. 3,048,378, 8–7–62, Cl. 261—23.

Newman, Jack R.: *See*—
Young, Harland H., Newman, and Majka. 3,055,796.

Newman, James L., to Bowen-Itco, Inc. Line measuring and movement indicating device. 3,068,579, 12–18–62, Cl. 33—134.

Newman, James W.: *See*—
Taylor, Walter P., Jr. 3,061,238.

Newman, John H. Counting boards. 3,051,490, 8–28–62, Cl. 273—148.

Newman, John M., and E. J. Posselt, to Cutler-Hammer, Inc. Dynamic braking control for series wound motors. 3,017,555, 1–16–62. Cl. 318—380.

Newman, John P. Rotary impact hammer. 3,015,244, 1–2–62, Cl. 81—52.3.

Newman, Kenneth W.: *See*—
Clark, Francis E., and Newman. 3,053,897.

Newman, Kenneth W., to Purex Corp. Composition for cleaning and polishing aluminum and aluminum alloys. 3,041,285, 6–26–62, Cl. 252—149.

Newman, Leonard J.: *See*—
Farmery, George K., and Newman. 3,044,569.

Newman, Nicholas B.: *See*—
Ashe, Robert E., Haeber, Newman, and Otteman. 3,041,-090.
Foster, Kenneth W., Newman, and Geer. 3 050,127.
Haeber, John A., Newman, and Otteman. 3,050,117.

Newman, Ralph M., Jr. Web forming method and apparatus. 3,019,158, 1–30–62, Cl. 162—212.

Newman, Richard L., to American Cyanamid Co. Colored iron-stained coal and a method of coloring. 3,019,121, 1–30–62. Cl. 106—286.

Newman, Seymour: *See*—
Ezrin, Myer, Isaksen, Newman, and Buchdahl. 3,052,924.

Newman, Seymour, and M. Ezrin, to Monsanto Chemical Co. Uniaxially oriented crystalline polymers. 3,069,406, 12–18–62, Cl. 260—93.5.
Newman, Stanley F.: *See*—
Mikkola, John E., and Newman. 3,048,669.
Newman, Stanley R., H. E. Vermillion, B. S. Bailey, and N. Alpert, to Texaco Inc. Motor fuel. 3,031,279, 4–24–62, Cl. 44—58.
Newman, Theodore R.: *See*—
Boles, David B., Bregman, and Newman. 3,067,024.
Newmyer, Lewis M., and R. F. Lippitt. Device for displaying a plurality of articles, such as bottles and the like. 3,034,657, 5–15–62, Cl. 211—77.
Newnan, Charles D., Jr.: *See*—
Furby, Neal W., and Newnan. 3,019,191.
Newport Instruments (Scientific and Mobile) Ltd.: *See*—
Boswell, Ian I., and Goldsmith. 3,061,779.
Newport, John J., III: *See*—
Olstowski, Franciszek, and Newport. 3,033,767.
Olstowski, Franciszek, and Newport. 3,037,919.
Newport, John J., III, F. Olstowski, and J. D. Watson, to The Dow Chemical Co. Preparation of 3,3,3-trifluoropropene. 3,062,901, 11–6–62, Cl. 260—653.3.
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Newport News Shipbuilding and Dry Dock Co.: *See*—
Folds, Guy P. 3,029,798.
Hurt, Leonard W. 3,037,273.
Newsom, Charles R., III. Convertible seat bed. 3,064,276, 11–20–62, Cl. 5—17.
Newsom, James B.: *See*—
Jacobitti, Edward, James, Morrison, and Newsom. 3,025,357.
Newsom, Raymond A., to The Dow Chemical Co. Corrosion inhibition. 3,044,958, 7–17–62, Cl. 252—8.55.
Newsom, Roy R. Remote control of traffic signals. 3,015,802, 1–2–62, Cl. 340—40.
Newsome, Joe B., to Southern States Inc. Mounting for electrical device. 3,065,945, 11–27–62, Cl. 248—201.
Newson, Clarence W. Safety trigger lock for firearms. 3,020,663, 2–13–62, Cl. 42—70.
Newson, Clarence W., Sr. Safety trigger lock for firearms. 3,064,383, 11–20–62, Cl. 42—70.
Newton, Alan G.: *See*—
Wilde, Geoffrey L., Newton, and Fitzgerald. 3,060,680.
Newton, Albert E., to United Shoe Machinery Corp. Fastening inserting machines. 3,038,163, 6–12–62, Cl. 1—309.
Newton, Albert E., and G. K. Richardson, to United Shoe Machinery Corp. Fuel element handling apparatus. 3,039,949, 6–19–62, Cl. 204—193.2.
Newton, Alwin S.: *See*—
McGehee, Clyde, Newton, and Soling. 3,054,274.
Newton & Bennett Ltd.: *See*—
Lind, John A. 3,039,271.
Newton, Catherine H.: *See*—
Brandon, Clarence W. 3,045,749.
Newton, George C.: *See*—
James, Ivanhoe J. P., and Newton. 3,017,454.
Newton, George C., to Electric & Musical Industries Ltd. Apparatus for justifying a line of characters. 3,068,767, 12–18–62, Cl. 95—4.5.
Newton, George W. Analgesic inhaler. 3,027,896, 4–3–62, Cl. 128—195.
Newton, Guy G F.: *See*—
Abraham, Edward P., Newton, and Hale. 3,049,541.
Newton, John A., to Thompson Ramo Wooldridge Inc. Method of making a composite valve. 3,040,417, 6–26–62, Cl. 29—156.7.
Newton, John D.: *See*—
Hall, Eddie T., Newton, and Wood. 3,042,304.
Newton, John S., to Goodman Mfg. Co. Flexible supporting stand for rope sideframe conveyor. 3,023,882, 3–6–62, Cl. 198—184.
Newton, John S., and R. C. Lundquist, to Goodman Mfg. Co. Core breaker roller for rotary mining head. 3,050,292, 8–21–62, Cl. 262—9.
Newton, Kenneth J. Tunnel evacuator system. 3,064,549, 11–20–62, Cl. 98—49.
Newton Leroy: *See*—
Grayson, Richard D., and Newton. 3,063,639.
Newton, Ray F.: *See*—
Sammis, John C., Newton, and MacLennan. 3,059,235.
Newton, Robert P., Jr. Waste water heat reclaimer. 3,048,372, 8–7–62, Cl. 257—236.
Newton, Roger T.: *See*—
Truman, John C., and Newton. 3,041,835.
Truman, John C., and Newton. 3,041,836.
Newton, Russell B. Methods of making pile fabrics. 3,024,518, 3–13–62, Cl. 28—72.
New York Air Brake Co., The: *See*—
Budzich, Tadeusz. 3,046,906.
Budzich, Tadeusz. 3,051,093.
Budzich, Tadeusz. 3,063,381.
Denton, Richard A., Le Riche, and Rivera. 3,021,712.
Dick, Willard K. 3,047,023.
Dowdell, Rodger B. 3,063,295.
Loud, Edgar R., and Chamberlain. 3,053,082.
Orshansky, Elias, Jr. 3,044,412.
Pickert, Lynn I. 3,022,121.
Pickert, Lynn I. 3,033,580.
Pschunder, Ralph J. 3,033,119.
New York Air Brake Co., The: *See*—Continued
Pschunder, Ralph J. 3,046,907.
Pschunder, Ralph J. 3,050,005.
Rivera, Michael P. 3,066,537.
Rohrberg, Paul W. 3,020,847.
Ruhl, Charles A. L. 3,033,168.
Ruhl, Charles A. L. 3,049,101.
Safford, Lewis A. 3,022,120.
Williams, Samuel G. 3,016,018.
New York Central Railroad Co., The: *See*—
Miller, Donald E. 3,017,841.
Tilden, Carleton D. 3,034,453.
New York Silicate Book Slate Co., Inc.: *See*—
Bayer, Harry. 3,057,084.
New Zealand Ltd.: *See*—
Varcoe, Graeme L. 3,053,846.
New Zealand Ltd. and Commonwealth Scientific: *See*—
Robinson, Bertram D., Kirby, and Greenham. 3,031,291.
Ney, Edward P.: *See*—
Bohl, Leland S., Critchfield, Huch, Ney, and Winckler. 3,063,656.
Bohl, Leland S., Huch, Ney, and Winckler. 3,070,335.
Huch, William F., and Ney. 3,063,296.
Huch, William F., Ney, and Winckler. 3,047,252.
Ney, Robert J., to General Electric Co. Ruggedized electric discharge device structure. 3,038,094, 6–5–62, Cl. 313—67.
Ney, William O., Jr., to Minnesota Mining and Mfg. Co. Stabilization of polymers of pyrrolidone. 3,017,393, 1–16–62, Cl. 260—78.
Ney, William O., Jr., to Minnesota Mining and Mfg. Co. Stabilized polypyrrolidone. 3,026,301, 3–20–62, Cl. 260—78.
Ney, William O., Jr., and J. L. Zollinger, to Minnesota Mining and Mfg. Co. Metaphosphoric acid salt of 1-(1-pyrrolin-2-yl)-2-pyrrolidinone. 3,057,874, 10–9–62, Cl. 260—326.3.
Neyer, Robert D., to Yarnall-Waring Co. Differential diffraction liquid level gauge. 3,053,089, 9–11–62, Cl. 73—293.
Neyhart, James H.: *See*—
Blakney, Robert M., Bode, Neyhart, and Potok. 3,041,167.
Neyhouse, George A.: *See*—
Flood, Raymond A., Neyhouse, Savage, and Shewmon. 3,060,593.
Neyhouse, George A., J. W. Savage, and R. K. Shewmon, to General Motors Corp. Combination washer-dryer having two two-speed motors for driving pump, fan and clothes drum. 3,033,014, 5–8–62, Cl. 68—19.
Neyhouse, George A., J. W. Savage, and R. K. Shewmon, to General Motors Corp. Power drive apparatus. 3,049,021, 8–14–62, Cl. 74—472.
Neymark, Albert M.: *See*—
Sanders, Elmore J., Winkler, and Neymark. 3,022,770.
Neyrpic, Etablissements: *See*—
Duboucheť, Jacques L. M. 3,066,490.
Gros, Charles. 3,018,997.
Gros, Charles. 3,047,344.
Peyrin, Henri. 3,047,267.
Ng, Clifford G., and C. E. Beck. Door lock construction. 3,064,462, 11–20–62, Cl. 70—153.
Niagara Blower Co.: *See*—
Deverall, Charles N. 3,026,690.
Niagara Machine & Tool Works: *See*—
Hohl, Frank J. 3,027,792.
Munschauer, Edwin A., Jr. 3,019,878.
Munschauer, Frederick E., Jr., Trautman, and Jones. 3,059,431.
Munschauer, George E., and Platou. 3,030,900.
Niagara Therapy Mfg. Corp.: *See*—
Eiden, Marlyn J. 3,019,784.
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Niblack, Robert L., and R. W. Kline, to Armour and Co. Packaging of fresh meat and poultry. 3,026,209, 3–20–62, Cl. 99—174.
Nicastro, Caremlo J.: *See*—
Neri, Dino, and Nicastro. 3,067,912.
Nicco, Jacques P.—
Fourcade, Robert, cousin, and Van De Walle. 3,058,972.
Niccolls, Herbert F. Zone-controlled carriage return mechanism for typewriters. 3,023,876, 3–6–62, Cl. 197—66.
Nichibei Blind Mfg. Co. Ltd.: *See*—
Fukuoka, Isamu. 3,049,175.
Nichol, Robert J.: *See*—
Powell, Roger F., Martin, Lurie, Nichol, and Brand. 3,034,648.
Nichol, Warren C. Swimming glove. 3,063,070, 11–13–62, Cl. 9—308.
Nichol, Wilbert G., to United States Steel Corp. Lading cover for transport vehicle. 3,022,750, 2–27–62, Cl. 105—377.
Nicholas, Andrew J.: *See*—
Berger, Richard K. Nicholas, Pickle, Soumerai, and Van Newenhoven. 3,033,009.
Moquin, Paul L., Nicholas, and Shaw. 3,061,177.
Nicholas, Andrew J., to Worthington Corp. Compressor valve service. 3,050,237, 8–21–62, Cl. 230—231.
Nicholas, Andrew J., and H. Soumerai, to Worthington Corp. Control means for regulating the capacity of reciprocating compressors. 3,040,969, 6–26–62, Cl. 230—31.
Nicholas, Andrew J., and D. N. Shaw, to Worthington Corp. Unloader means for a reciprocating compressor. 3,061,176, 10–30–62, Cl. 230—30.

Nicholas and Cosma Creme: *See*—
Nye, Norman H., and Medkeff. 3,060,499.
Nicholas, Donald C., and J. W. Hempstead, to B.X. Plastics Ltd. Stretching apparatus. 3,046,599, 7–31–62, Cl. 18—1.
Nicholas, John F., and D. S. Winchester, to United States of America, Navy. Electric power level detector and regulator. 3,028,540, 4–3–62, Cl. 323—66.
Nicholas, Ross B., Jr.: *See*—
Knecht, Forrest E., Schwartz, Nicholas, and Baker. 3,059,894.
Nicholas, William, to Radiant Mfg. Corp. Projection screen. 3,036,628, 5–29–62, Cl. 160—24.
Nicholas, William, to Radiant Mfg. Corp. Projection screen. 3,036,629, 5–29–62, Cl. 160—24.
Nicholl, Jonathan F., to Chicopee Mfg. Corp. Method of forming a fabric. 3,061,907, 11–6–62, Cl. 28—73.
Nicholls, George L.: *See*—
McMillan, William J., and Nicholls. 3,026,274.
Nicholls, Thomas C., Jr. Display device. 3,044,187, 7–17–62, Cl. 35—56.
Nichols, Arnold D., to United Aircraft Corp. Stator construction. 3,028,141, 4–3–62, Cl. 253—78.
Nichols, Beverly R., to Allis-Chalmers Mfg. Co. Valve. 3,063,672, 11–13–62, Cl. 251—306.
Nichols, Charles T., to Quick-Pack Inc. Package assembly and process of loading the same. 3,065,845, 11–27–62, Cl. 206—7.
Nichols, Edgar B. Bearings. 3,020,104, 2–6–62, Cl. 308—159.
Nichols, Edgar B. Fountain pens. 3,055,342, 9–25–62, Cl. 120—50.
Nichols, Edward C., to Draper Corp. Filling carrier for shuttleless looms. 3,016,927, 1–16–62, Cl. 139—122.
Nichols, Frederick S. Method of making a diaper. 3,030,956, 4–24–62, Cl. 128—284.
Nichols, Gordon E., to Winthrop-Atkins Co., Inc. Calendar pad mounts. 3,029,051, 4–10–62, Cl. 248—33.
Nichols, Gordon E., to Winthrop-Atkins Co., Inc. Calendar mount. 3,033,501, 5–8–62, Cl. 248—35.
Nichols, Gordon E., to Winthrop-Atkins Co., Inc. Desk mount. 3,039,216, 6–19–62, Cl. 40—120.
Nichols, Gust: *See*—
Fancher, Otis E., and Nichols. 3,029,251.
Fancher, Otis E., Nichols, and Stauffer. 3,021,325.
Nichols, Harry R., to United States of America, Air Force. High temperature die lubricant. 3,066,098, 11–27–62, Cl. 252—5.
Nichols, Howard H., and J. D. Keller, to Hazen Engineering Co. Two-stage system for preheating combustion air. 3,061,194, 10–30–62, Cl. 236—11.
Nichols, Hugh E.: *See*—
Le Bel, John P. 3,062,148.
Nichols Industries, Inc.: *See*—
Nichols, Talley W., and Tarrant. 3,024,558.
Nichols, John B., to Hiller Aircraft Corp. Supplemental flight controls for aircraft. 3,025,026, 3–13–62, Cl. 244—87.
Nichols, John B., to Hiller Aircraft Corp. Amphibious aircraft. 3,049,321, 8–14–62, Cl. 244—17.19.
Nichols, John B., and J. Stuart, III, to Hiller Aircraft Corp. Helicopter governor. 3,049,178, 8–14–62, Cl. 170—135.7.
Nichols, John H.: *See*—
Pombrow, Bernard A., and Nichols. 3,032,517.
Nichols, John R.: *See*—
Reed, Theron J. 3,064,830.
Nichols, John W. de L.: *See*—
Reegen, Eric J. G., and Nichols. 3,035,207.
Nichols, John W. De L., and A. C. MacKellar, to National Research Development Corp. Electronic control apparatus. 3,056,548, 10–2–62, Cl. 235—92.
Nichols, Lawrence E.: *See*—
Bayley, Frederick J., and Nichols. 3,028,797.
Nichols, Lawrance E., to Pembroke Carton & Printing Co. Ltd. Box blank erecting machines. 3,067,654, 12–11–62, Cl. 93—51.
Nichols, Louis A., Jr., to E. I. du Pont de Nemours and Co. Continuous drier for fibrous materials. 3,069,786, 12–25–62, Cl. 34—225.
Nichols, Lyman B., to The Anaconda American Brass Co. Method of making jacketed strip-wound metal hose. 3,015,133, 1–2–62, Cl. 18—59.
Nichols, Nathaniel B.: *See*—
Decker, Robert M., and Nichols. 3,069,554.
Nichols, Peter F., to Bowers Machine Co. Ltd. Device for stamping code numbers. 3,018,720, 1–30–62, Cl. 101—41.
Nichols, Richard A., to Collins Radio Co. Coded pulse train spacing tolerance checker. 3,040,260, 6–19–62, Cl. 328—110.
Nichols, Talley W., and J. A. Tarrant, to Nichols Industries, Inc. Toy cap pistol with cocking positioner. 3,024,558, 3–13–62, Cl. 42—57.
Nichols, Victor L., and I. J. Garshelis, to David & David, Inc. Method for making simulated curly hair. 3,057,015, 10–9–62, Cl. 18—56.
Nichols, Wallace H., to Rand Development Corp. Noiseless valve. 3,027,134, 3–27–62, Cl. 251—175.
Nichols, Wallace H. Charcoal lighter. 3,033,275, 5–8–62, Cl. 158—10.
Nichols, Walter S., to Universal American Corp. Hand truck. 3,046,035, 7–24–62, Cl. 280—47.27.
Nichols, William M., to Alco Products, Inc. Exhaust manifolds. 3,043,094, 7–10–62, Cl. 60—29.
Nichols, William R. Sound reproducing device. 3,034,390, 5–15–62, Cl. 84—1.15.
Nichols, William R. Timing device. 3,034,627, 5–15–62, Cl. 194—9.
Nicholson, Agnew W. Double-sash casement windows. 3,048,-901, 8–14–62, Cl. 20—55.
Nicholson, Daniel E.: *See*—
Earhart, Harold W., and Nicholson. 3,031,513.
Nicholson, Frank M. Vehicle steering means. 3,027,963, 4–3–62, Cl. 180—79.2.
Nicholson, Frank R., to E. I. du Pont de Nemours and Co. Adjustment mechanism. 3,039,143, 6–19–62, Cl. 18—12.
Nicholson, Frank R., to E. I. du Pont de Nemours and Co. Adjustment mechanism. 3,067,464, 12–11–62, Cl. 18—12.
Nicholson, James F., to Westinghouse Electric Corp. Photoconductive device. 3,020,432, 2–6–62, Cl. 313—65.
Nicholson, James F., to Westinghouse Electric Corp. Storage system. 3,046,431, 7–24–62, Cl. 313—65.
Nicholson, James F., to Westinghouse Electric Corp. Method of making a photoconductive target. 3,048,502, 8–7–62, Cl. 117—211.
Nicholson, James F., and K. R. Simpson, to Westinghouse Electric Corp. Photoconductive target. 3,020,442, 2–6–62, Cl. 315—10.
Nicholson, James F., and D. W. Naas, to United States of America, Air Force. Magnetic shoe attachment. 3,031,-778, 5–1–62, Cl. 36—7.1.
Nicholson, Jerome J., to Kubin-Nicholson Corp. Silk screen press. 3,026,794, 3–27–62, Cl. 101—123.
Nicholson, John J. Cigarette carton. 3,063,553, 11–13–62, Cl. 206—45.31.
Nicholson, John K. Apparatus for cutting strip material. 3,029,775, 4–17–62, Cl. 118—9.
Nicholson, John P.: *See*—
Cook, Harold G., and Nicholson. 3,052,526
Nicholson, Kenneth C., and S. D. Mark, Jr., to The Carborundum Co. Method of making silicon carbide bodies. 3,035,-325, 5–22–62, Cl. 25—157.
Nicholson, Laurence E. Power lawn mower grass catcher. 3,037,339, 6–5–62, Cl. 56—25.4.
Nicholson, Ronald G., to Consolidated Electronics Industries Corp. Housing structure for instrument mechanisms or the like. 3,018,151, 1–23–62, Cl. 312—352.
Nickel, Horst: *See*—
Schündehütte, Karl-Heinz, Schmidt, Suckfull, and Nickel. 3,024,255.
Suckfull, Fritz, and Nickel. 3,046,271.
Nickell, Claude H., 50% to Peninsular Distributing Co. Irrigation system. 3,021,078, 2–13–62, Cl. 239—97.
Nickell, Claude H., and R. C. Zeidler, to Borg-Warner Corp. Disc brake. 3,059,730, 10–23–62, Cl. 188—72.
Nickell, Edith A. Liquid containing receptacles for storing plastic contact lenses. 3,054,412, 9–18–62, Cl. 134—137.
Nickell, Lawrence C., to Appalachian Electronic Instruments Inc. Scanning heads for stop-motion devices for knitting machines. 3,046,767, 7–31–62, Cl. 66—166.
Nickells, Stanley W., to Minneapolis-Honeywell Regulator Co. Manually operated manifold valve. 3,045,690, 7–24–62, Cl. 137—66.
Nickerson, Basil S., and C. Curello, to Mite Corp. Buttonhole attachment for sewing machines. 3,033,136, 5–8–62, Cl. 112—77
Nickerson, Beverly A.: *See*—
Fazio, Charles P., Nelson, and Nickerson. 3,058,694.
Nickerson, Charles: *See*—
Banks, Harry R., and Nickerson. 3,057,965.
Nickerson, Clifford J. Rail joint. 3,050,259, 8–21–62, Cl. 238—191.
Nickerson, David L., and J. A. Reed. Method and apparatus for molding covers on spherical bodies. 3,068,522, 12–18–62, Cl. 18—36.
Nickerson, James K.: *See*—
Pennington, Robert E., and Nickerson. 3,047,614.
Nickerson, Mortimer R. Method of converting powered polymers to granular form. 3,058,967, 10–16–62, Cl. 260—92.1.
Nickerson, Ralph F., to Monsanto Chemical Co. Process of bonding glass articles. 3,024,145, 3–6–62, Cl. 154—43.
Nickl, Julius: *See*—
Enk, Eduard, and Nickl. 3,023,087.
Enk, Eduard, and Nickl. 3,065,062.
Niclas, Catherine R. Pivotal sliding closure. 3,027,606, 4–3–62, Cl. 20—19.
Niclas, James H.: *See*—
Costello, George T., Dickinson, Dreher, and Niclas. 3,049,173.
Currier, Edwin L., Jr., and Niclas. 3,049,486.
Niclas, John H.: *See*—
Currier, Edwin L., Jr., Niclas, and Coombs. 3,068,163.
Nickles, Liston W.: *See*—
Aviles, Harvey N., and Nickles. 3,061,937.
Nickles Machine Corp.: *See*—
Richardson, Kenneth A. 3,062,198.
Nicklin, Thomas A. W. Sommerville, E. Brunner, and R. Isherwood, to The North Western Gas Board and Clayton Aniline Co. Method of removing hydrogen sulphide from gases and producing sulphur therefrom. 3,035,889, 5–22–62, Cl. 23—2.
Nickol, Giffen B.: *See*—
Stockhausen, Cyril J., and Nickol. 3,024,579.
Nickola, Richard A., to United States Steel Corp. Hot-dip aluminum coating. 3,026,606, 3–27–62, Cl. 29—196.2.

Nickols, John E. Building construction system. 3,017,970, 1–23–62, Cl. 189—34.
Nickols, Leonard W.: *See—*
Evans, James C., Morgan, Nickols, Garratt, Mason, and Atkins. 3,026,714.
Nickova, Marie: *See—*
Pluhacek, Rudolf. 3,027,599.
Nickum, Robert H. Machine for applying metal corner stays. 3,068,482, 12–18–62, Cl. 1—117.
Niclas, Walter: *See—*
Beckadolph, Richard, and Niclas. 3,016,321.
Beckadolph, Richard, and Niclas. 3,068,710.
Niclas, Walter, and H. Menell, to Continental Gummi-Werke Aktiengesellschaft. Method of and device for making pneumatic tires. 3,016,084, 1–9–62, Cl. 154—9.
Nicol, Herbert E., to Pratt Mfg. Corp. Article stacking and count facilitating mechanism. 3,054,517, 9–18–62, Cl. 214—7.
Nicol, James: *See—*
Franzen, Wolfgang, and Nicol. 3,063,005.
Nicol, James, to Arthur D. Little, Inc. Electrical measuring apparatus. 3,029,380, 4–10–62, Cl. 324—34.
Nicol, Robert J.: *See—*
Powell, Roger F., Martin, Lurie, Nichol, and Brand. 3,031,461.
Nicolai, Theodore R. Off-the-road motorcycle. 3,024,860, 3–13–62, Cl. 180—32.
Nicolai, Theodore R. Drive for motor bikes. 3,045,772, 7–24–62, Cl. 180—31.
Nicolaides, Ernest D.: *See—*
Moore, James A., Westland, Nicolaides, and Dice. 3,030,-388.
Nicolaisen, Bernard H., to Olin Mathieson Chemical Corp. Production of aqueous perchloric acid. 3,056,656, 10–2–62, Cl. 23—152.
Nicolaro, Louis L.: *See—*
Wilson, William E., and Nicolaro. 3,068,909.
Nicolaus, Bruno J. R.: *See—*
Merian, Ernest, and Nicolaus. 3,069,408.
Merian, Ernest, Nicolaus, and Wehrli. 3 027,220.
Nicolaus, Frank G., to Lion Mfg. Corp. Electrical switch mechanism. 3,064,098, 11–13–62, Cl. 200—105.
Nicolaus Frank G., to Lion Mfg. Corp. Stepping switch mechanism. 3,064,891, 11–20–62, Cl. 235—117.
Nicolaus, Norbert, to Borg-Warner Corp. Rubber bonded valve. 3,068,893, 12–18–62, Cl. 137—510.
Nicolaus, Robert: *See—*
Freystedt, Erich, and Nicolaus. 3,026,458.
Nicolay, Karl, to Durkoppwerke Aktiengesellschaft. Cloth cutting apparatus. 3,063,321, 11–13–62, Cl. 83—578.
Nicolet Industries, Inc: *See—*
Mauck, Victor, Duke, and Belfi. 3,068,934.
Nicolin, Curt R., to Turbin Aktiebolaget de Laval Ljungstrom. Turbine power plant. 3,048,018, 8–7–62, Cl. 60—70.
Nicolino, Samuel J.: *See—*
Weldmaier, Vernon C., and Nicolino. 3,044,776.
Nicoll, David: *See—*
Fortescue, Peter, and Nicoll. 3,031,397.
Nicoll, Frederich H., to Radio Corp. of America. Radar light amplifier device. 3,068,360, 12–11–62, Cl. 250—213.
Nicoll, Frederick H., to Radio Corp. of America. Electroluminescent device. 3,042,834, 7–3–62, Cl. 315—169.
Nicoll, William A., to E. I. du Pont de Nemours and Co. Process for printing on fluorocarbon resin surfaces. 3,018,188, 1–23–62, Cl. 117—38.
Nicoll, William D.: *See—*
Cox, Norman L., and Nicoll. 3,019,509.
Nicolle, Charles. Package of pharmaceutical composition and the like molded in situ. 3,028,002, 4–3–62, Cl. 206—63.2.
Nicolosi, Robert V.: *See—*
Kotler, Max, Nicolosi, and Belo. 3,069,649.
Nicolson, Richard E.: *See—*
Spence, Sydney P., Grover, Klosek, and Nicolson. 3,069,-254.
Nicolson, Richard E. and S. P. Spence, to Union Carbide Corp. Polyester synthetic resin reaction system. 3,068,-206, 12–11–62, Cl. 260—75.
Nicolson, William H.: *See—*
Reed, Kenneth G., and Nicolson. 3,031,843.
Nicosia, Joseph P., and R. Newhouser, to The Budd Co. Clamp Chuck for workpieces. 3,044,791, 7–17–62, Cl. 279—106.
Niebergall, Heinz: *See—*
Gutweiler, Kiemens, and Niebergall. 3,070,582.
Niechniedowicz, Frank E.: *See—*
Klima, Stanley J., and Niechniedowicz. 3,049,464.
Niedecker, Herbert. Clips for seating bags in airtight manner, and device for attaching said clips. 3,022,571, 2–27–62, Cl. 29—193.5.
Niederer, Herbert O.: *See—*
Niederer, Otto C. and H. O. 3,027,008.
Niederer, Otto C., to United States of America, Navy. Marker ejector. 3,034,227, 5–15–62, Cl. 35—10.2.
Niederer, Otto C. and H. O. Egg handling equipment. 3,027,-008, 3–27–62, Cl. 209—121.
Niederhauser, Donald O., to E. I. du Pont de Nemours and Co. Preparation of metal nitride pigment flakes. 3,032,-397, 5–1–62, Cl. 23—191.
Niederhauser, Warren D., to Rohm & Haas Co. N-alkylbenzyl-N-dodecenyl quaternary ammonium salts. 3,050,521, 8–21–62, Cl. 260—247.
Niederhauser, Warren D., to Rohm & Haas Co. Aldehydes and method of preparation. 3,054,813, 9–18–62, Cl. 260—398.
Niederhoff, Otto, to Deutsche Edelstahlwerke Aktiengesellschaft. Method of treating workpieces by spark erosion. 3,042,789, 7–3–62, Cl. 219—69.
Niederman, Daniel, to Metaltex, Inc. Mirror structures. 3,032,642, 5–1–62, Cl. 240—4.2.
Niedereither, Johann, to Karl Mengele & Sohne. Parallel control gear for hydraulic presses, shears, or the like, having several press cylinders. 3,020,828, 2–13–62, Cl. 100—46.
Niederrheinische Maschinenfabrik, Becker & van Huellen: Huetter, Will. 3,034,425.
Niedzielski, Edmund L., to E. I. du Pont de Nemours and Co. Alkali metal composition additives for fuels of the gasoline range. 3,022,147, 2–20–62, Cl. 44—66.
Nief, Guy: *See—*
Chatel, Serge, and Nief. 3,040 585.
Nief, Guy, and R. Gotter, to Commissariat a l'Energie Atomique. Means for the quantitative analysis of deuterium in hydrogen containing compounds. 3,066,220, 11–27–62, Cl. 250—41.9.
Niehaus, Edward J., Jr.: *See—*
Pettigrew, David D., and Niehaus. 3,068,723.
Nielsch, Walter, to Joh. A. Benckiser G.m.b.H., Chemische Fabrik. Increasing the effective blood level of isoniazide. 3,038,837, 6–12–62, Cl. 167—65.
Nielsen, A. C. Co.: *See—*
Currey, Charles. Brown, Holbrook, Truesdale, and Freeman. 3,070.798.
Currey, Charles, and Freeman. 3,056,135.
Freeman, Robert L., and Currey. 3,058,065.
Nielsen, Axel L. Adjustable liquid level control for pumps. 3,043,225, 7–10–62 Cl. 103—25.
Nielsen, Axel L. Hydro-statically and dynamically responsive control for sump pumps and the like. 3,067,302, 12–4–62, Cl. 200—81.5.
Nielsen, Axel T.: *See—*
Stieg, William E., and Nielsen. 3,047,598.
Nielsen, Barbara: *See—*
Feldman, Louis I., Rigler, Holmlund, and Nielsen. 3,063,991.
Feldman, Louis I., Rigler, Shay, and Nielsen. 3,060,101.
Nielsen, Barbara E.: *See—*
Feldman, Louis I., Nielsen, and Mowat. 3,037,914.
Feldman, Louis I., Rigler, Shay, and Nielsen. 3,037,912.
Nielsen, Carl A., E. F. Ewen, and P. H. Sherrick, to E. H. Sargent & Co. Two speed reversible record chart drive. 3,015,536, 1–2–62, Cl. 346—136.
Nielsen, Christine: *See—*
Nielsen. Vandel L. 3,069,828.
Nielsen, David I. Chair for taking cardiograms. 3,043,291, 7–10–62, Cl. 128—2.06.
Nielsen, Edwin A., and N. M. Gelfand, to Ideal Toy Corp. Self-propelled toy tank. 3,065,569, 11–27–62, Cl. 46—244.
Nielsen, Einer S., to A. O. Smith Corp. Method of making a cylindrical member. 3,029,504, 4–17–62, Cl. 29—425.
Nielsen, Erik J., and R. D. Boley, to Square D Co. Terminal board and combination thereof with terminals and protective cover. 3,024,439, 3–6–62, Cl. 339—198.
Nielsen, Erik R.: *See—*
Trademan, Leo, Katz, and Nielsen. 3,056,722.
Nielsen Hardware Corp., The: *See—*
Swanson, Gunnar E. 3,026,133.
Swanson, Gunnar E. 3,070,396.
Nielsen, Harold R. Portable partitions. 3,017,969, 1–23–62, Cl. 189—34.
Nielsen, Harold R. Adjustable leg units. 3,027,209, 3–27–62, Cl. 311—95.
Nielsen, James W., to Bell Telephone Laboratories, Inc. Zinc oxide crystal growth method. 3,043,671, 7–10–62, Cl. 23—305.
Nielsen, James W., to Bell Telephone Laboratories, Inc. Single crystal garnets. 3,050,407, 8–21–62, Cl. 106—42.
Nielsen, John E.: *See—*
Hedgecock, Durwood J., Lewis, and Nielsen. 3,055,251.
Nielsen, Jorgen L., to General Dynamics Corp. Double time-constant AGC for speech amplifier. 3,021,489, 2–13–62, Cl. 330—29.
Nielsen, Kaj D. Convertible sofas. 3,042,935, 7–10–62, Cl. 5—57.
Nielsen, Milton R., to Borg-Warner Corp. Constant speed drive. 3,058,560, 10–16–62, Cl. 192—104.
Nielsen, Morris L., to Monsanto Chemical Co. Phosphorus-nitrogen compounds. 3,018,165, 1–23–62, Cl. 23—106.
Nielsen, Morris L., to Monsanto Chemical Co. Method for producing trimetaphosphimic acid. 3,018,167, 1–23–62, Cl. 23—165.
Nielsen, Morris L., to Monsanto Chemical Co. Ortho-tolidine phosphoramidate corrosion inhibitor. 3,035,885, 5–22–62, Cl. 21—2.7.
Nielsen, Morris L., to Monsanto Chemical Co. O-tolidine salt of trimetaphosphimic acid corrosion inhibitor. 3,039,-844, 6–19–62, Cl. 21—2.7.
Nielsen, Morris L., and L. K. Duncan, to Monsanto Chemical Co. Method for producing trivalent titanium orthophosphate. 3,027,228, 3–27–62, Cl. 23—105.
Nielsen, Otto S.: *See—*
Best, Charles L., and Nielsen. 3,068,957.
Nielsen, Paul O., to Polymer Engineering Corp. Spray gun. 3,038,750, 6–12–62, Cl. 239—407.

Nielsen, Peer D., to Curtiss-Wright Corp. Power regulating system. 3,048,703, 8–7–62, Cl. 290—2.
Nielsen, Ralph P., ½0 to Gauget-of-the-Month Club, Inc. Foot-operated switch closable by transverse pivotal movement in any direction. 3,020,368, 2–6–62, Cl. 200—86.5.
Nielsen, Vandel L., to C. Nielsen. Machine for positioning large cartons. 3,069,828, 12–25–62, Cl. 53—374.
Nielsen, Waldemar C. Cutting device. 3,016,661, 1–16–62, Cl. 51—206.
Nielsen, Watrous A. Accounting apparatus. 3,026,056, 3–20–62, Cl. 242—55.12.
Nielsen, William A., to General Electric Co. One-piece built-in range. 3,051,160, 8–28–62, Cl. 126—37.
Nieman, Henry W., to Bethlehem Apparatus Co., Inc. Sharp flame burner. 3,038,529, 6–12–62, Cl. 158—27.4.
Nieman, Naseeb. Archery bows. 3,040,728, 6–26–62, Cl. 124—24.
Niemann, Horst, and K. Herrmann, to Schering A.G. Process for continuous production of cuprous chloride. 3,030,178, 4–17–62, Cl. 23—97.
Niemann, Walter A. Compression unit. 3,063,429, 11–13–62, Cl. 121—68.
Niemeyer, Edward H., to ACF Industries Inc. Transistor switching circuit with thermistor biasing means. 3,051,-847, 8–28–62, Cl. 307—88.5.
Niemeyer, Otto, to Windmoller & Holscher. Manufacture of cross-bottomed valve bags. 3,043,199, 7–10–62, Cl. 93—8.
Niemi, Edvard. Water pipe drain. 3,023,768, 3–6–62, Cl. 137—290.
Niepmann, Fr., & Co., Maschinenfabrik: *See*—
Sassmannshausen, Werner, and Niepmann. 3,047,034.
Niepmann, Otto: *See*—
Sassmannshausen, Werner, and Niepmann. 3,047,034.
Nierzwicki, Raymond C.: *See*—
Bergh, Thomas R., King, Nierzwicki, and Thorne. 3,043,-567.
Nies, Nelson P., to United States Borax & Chemical Corp. Production of boric acid. 3,031,284, 4–24–62, Cl. 23—149.
Nies, Nelson P., and G. H. Bowden, to United States Borax & Chemical Corp. Manufacture of calcium borates. 3,032,-392, 5–1–62, Cl. 23—59.
Nies, Nelson P., and K. K. Kendall, Jr., to United States Borax & Chemical Corp. Production of sodium borates. 3,069,229, 12–18–62, Cl. 23—59.
Nieto, Joe A., Jr. Attachment for hay baler. 3,052,342, 9–4–62, Cl. 198—122.
Nieuwenhuis, Willem E., to Shell Oil Co. Hydrocarbon sweetening process. 3,063,935, 11–13–62, Cl. 208—204.
Nifke, Max R. Toy. 3,024,567, 3–13–62, Cl. 46—124.
Nifontoff, George: *See*—
Shearer, Robert, Semple, and Nifontoff. 3,045,592.
Nifontoff, George, and J. M. Ciccone, to F. L. Smithe Machine Co., Inc. Envelope gumming machines. 3,060,888, 10–30–62, Cl. 118—1.
Nigon, Joseph P.: *See*—
McElroy, Albert D., and Nigon. 3,021,190.
Nigrelli, Biagio J.: *See*—
Nigrelli, Biagio J., Standley, Wittmann, and Ferraro. 3,034,270.
Nigrelli, Biagio J., W. E. Standley, R. B. Wittmann, and J. V. Ferraro; to R. W. Johns, B. J. Nigrelli, and R. R. Johns d.b.a. Johns-Nigrelli-Johns. Machine for loading open end cartons. 3,034,270, 5–15–62, Cl. 53—48.
Nigrelli, Biagio J., W. E. Standley, and R. B. and J. I. Wittmann, to R. W. Johns, B. J. Nigrelli, and R. R. Johns, d.b.a. Johns-Nigrelli-Johns. Case loader. 3,053,025, 9–11–62, Cl. 53—159.
Nihlen, Arvid C. K., and M. G. Yohn, to Baldwin-Lima-Hamilton Corp. Grooving tool for finned heat exchanger tubes. 3,064,506, 11–20–62, Cl. 78—1.
Nihon Denki Bunka Kogyo Kabushiki Kaisha: *See*—
Fujimoto, Sakae. 3,046,357.
Fujimoto, Sakae. 3,060,940.
Nihon Denki Tokei Co., Ltd.: *See*—
Sonobe, Shiro, Tominaga, and Nomura. 3,043,923.
Nihon Gakki Seizo Kabushiki Kaisha: *See*—
Enya, Choshi. 3,064,517.
Nihon Mishin Seizo Kabushiki Kaisha: *See*—
Koike, Fuji. 3,029,761.
Nijboer, Johannes: *See*—
Erkelens, Johannes, and Nijboer. 3,062,362.
Erkelens, Johannes, and Nijboer. 3,066,396.
Nijhuis, Aart G., to Alkono Aktien Gesellschaft. Connection of profiliated posts and profiliated posts suited for this connection. 3,061,055, 10–30–62, Cl. 189—36.
Nijhuis, Herman C., and W. A. Roovers, to North American Philips Co. Cold press bonded semi-conductor housing joint. 3,024,299, 3–6–62, Cl. 174—50.5.
Nijhuis, Herman C., and W. A. Roovers, to North American Philips Co., Inc. Method of manufacturing a vacuum tight closure. 3,058,209, 10–16–62, Cl. 29—470.1.
Nijkamp, Derk J. E., G. J. van Lochem, and J. G. Vos, to E. I. du Pont de Nemours and Co. Manufacture of crepe yarns and fabrics. 3,020,699, 2–13–62, Cl. 57—157.
Nika, Louis E., to Jiffy Products. Nursery chair. 3,061,262, 10–30–62, Cl. 248—439.
Nikitin, Alexander A., and C. C. Fite, Jr., to Tennessee Corp. Process of preparation of neutral manganese composition. 3,057,712, 10–9–62, Cl. 71—63.
Nikka, Rubber Co., Ltd.: *See*—
Noda, Atsuro. 3,044,189.
Nikkel, Albert. Automatic border blocker. 3,065,802, 11–27–62, Cl. 112—237.
Nikkel, Willem A.: *See*—
Limerick, Jack McK., and Nikkel. 3,031,355.
Niklas, Wilfrid F., to The Rauland Corp. Image converter. 3,017,517, 1–16–62, Cl. 250—213.
Niklas, Wilfrid F., to The Rauland Corp. Electron discharge device. 3,026,437, 3–20–62, Cl. 313—65.
Nikles, Erwin: *See*—
Batzer, Hans, and Nikles. 3,023,174.
Nikolov, Nikolai S., and L. A. McLeod, to Polymer Corp. Ltd. Reduction of water-soluble peroxides in a graft copolymerization process. 3,069,382, 12–18–62, Cl. 260—45.5.
Nikon Spindle Seizo Kabushiki Kaisha: *See*—
Hijiya, Kenji, and Okawa. 3,018,503.
Niles, Ira P., to Allen-Bradley Co. Packaging for small uniform articles. 3,050,186, 8–21–62, Cl. 206—59.
Niles, Phillip M.: *See*—
Cole, Eldon B., and Niles. 3,042,506.
Cole, Eldon B., and Niles. 3,053,645.
Nill, Richard G., and R. J. Eminger, to Fort Wayne Tool & Die Inc. Stator winding machine. 3,025,008, 3–13–62, Cl. 242—1.1.
Nilles, Heinzpeter: *See*—
Fischer, Walter, Crutzen, and Nilles. 3,060,510.
Nilok Chemicals, Inc.: *See*—
Mohun, William A. 3,066,099.
Nilson, A. H., Machine Co., The: *See*—
Barnes, Leslie W. 3,048,199.
Nilson, Morris: *See*—
Ludwig, Donald A., and Nilson. 3,044,665.
Nilsson, Byard G. Digital-analog converter. 3,030,618, 4–17–62, Cl. 340—347.
Nilsson, Einar W. Drive mechanism for flying shears and the like. 3,028,779, 4–10–62, Cl. 83—298.
Nilsson, Einar W. Cross-roll straightener. 3,047,046, 7–31–62, Cl. 153—108.
Nilsson, Erik K., to Atlas Copco Aktiebolag. Multiple valve devices. 3,026,905, 3–27–62, Cl. 137—624.
Nilsson, Gustav W. Dual drive means for a caulking device. 3,029,655, 4–17–62, Cl. 74—169.
Nilsson, Gustav W. Caulking gun. 3,069,053, 12–18–62, Cl. 222—391.
Nilsson, Hans R., and P. W. S. Persson, to Svenska Rotor Maskiner Aktiebolag. Regenerative heat exchangers. 3,058,723, 10–16–62, Cl. 257—270.
Nilsson, John C. Gauge assembly. 3,046,665, 7–31–62, Cl. 33—147.
Nilsson, John G., to Arenco Aktiebolag. Device on machines for filling collapsible tubes. 3,028,028, 4–3–62, Cl. 214—307.
Nilsson, Nils E., J. C. H. Björk, and G. O. Rodnert, to Telefonaktiebolaget L. M. Ericsson. Telephone system with registration for waiting calls. 3,045,067, 7–17–62, Cl. 179—5.5.
Nilsson, Nils E., G. O. Rodnert, and J. C. H. Bjork, to Telefonaktiebolaget L M Ericsson. Connecting device for private automatic branch exchange. 3,065,305, 11–20–62, Cl. 179—16.
Nilsson, Nils H., to Electrolux, Aktiebolaget. Vacuum cleaner nozzle. 3,040,368, 6–26–62, Cl. 15—373.
Nimer, Fred. Telephone clamps. 3,069,513, 12–18–62, Cl. 179—189.
Nimerfern, Auguste. Hydraulically controlled grab. 3,039,-812, 6–19–62, Cl. 294—88.
Nimmo, Ray F. Collapsible tent for automobiles. 3,056,415, 10–2–62, Cl. 135—4.
Nimylowycz, Osyp, to I-T-E Circuit Breaker Co. Handle tie. 3,040,140, 6–19–62, Cl. 200—50.
Ninger, Fred C., to Warner-Lambert Pharmaceutical Co. Predried granulation and production of sublingual compressed organic nitrate tablets with selected solubilizing agents. 3,028,307, 4–3–62, Cl. 167—82.
Ninnelt, Fred. Protecting, actuating, and sealing devices for valves in receptacles for gaseous media and the like. 3,035,605, 5–22–62, Cl. 137—382.
Nippon Denkionkyo Kabushikikaisha: *See*—
Iwamura, Hiroshi. 3,042,753.
Nippon Electric Co., Ltd.: *See*—
Fujii, Tadakuni. 3,054,015.
Kaneko, Hisashi. 3,065,302.
Kaneko, Hisashi. 3,065,303.
Kaneko, Hisashi. 3,069,504.
Moriguchi, Yoshiro. 3,027,502.
Morita, Masasuke, and Ito. 3,069,625.
Morita, Sigeru, and Abe. 3,057,672.
Muroga, Ko, and Okuda. 3,025,356.
Okamoto, Elichi, Seki, and Suzuki. 3,065,393.
Oki, Kikuo, and Sato. 3,031,141.
Sato, Akihiko. 3,027,503.
Sato, Akihiko. 3,061,422.
Uchida, Ichizo, and Satake. 3,029,346.
Nippon Kogaku K.K.: *See*—
Fukuoka, Shigetada. 3,064,522.
Kawate, Kenichi. 3,054,079.
Ueno, Tadashi. 3,019,706.
Nippon Light Metal Co., Ltd.: *See*—
Watanabe, Koicni, and Asano. 3,069,924.
Nippon Mining Co. Ltd.: *See*—
Takahashi, Shinyu. 3,037,626.
Nippon Mishin Seizo Kabushiki Kaisha: *See*—
Tateishi, Toshio. 3,033,139.

Nippon Piston Ring Kabushiki Kaisha : *See*—
Minegishi, Takashi. 3,051,499.
Nippon Sewing Machine Mfg. Co., Ltd. : *See*—
Adler, Solomon. 3,053,207.
Adler, Solomon. 3,055 325.
Nippon Shinnetsu Kogyo Kabushiki Kaisha : *See*—
Suga, Kenichi. 3,031,144.
Nippon Shinyaku Co. Ltd. : *See*—
Takahashi, Torizo, Ogin, Fujimura, Satoda, Fukui, and Yamamoto. 3,047,573.
Nippon Telegraph & Telephone Public Corp. : *See*—
Rokutome, Mitsuru, Yoshida, Miyamoto, Mizuno, and Oketani. 3,068,126.
Tsuchiya, Shoji. 3,035,225.
Nirenberg, Robert P., and T. L. Rusk, Jr., to Monsanto Chemical Co. Machine for testing batting materials. 3,067,608, 12–11–62, Cl. 73—94.
Nisbet, Thomas R., to Lockheed Aircraft Corp. Radiation amplifier. 3,019,345, 1–30–62, Cl. 250—213.
Nisbet, Thomas R., to Lockheed Aircraft Corp. Light intensity meter. 3,024,695, 3–13–62, Cl. 88—23.
Nisbet, Thomas R., A. J. Heeger, and K. R. Morsette, to Lockheed Aircraft Corp. Combined optical and electronic circuit devices. 3,034,011, 5–8–62, Cl. 313—108.
Nischan, Joseph V., to Impact Extrusions, Inc. Rope sling and process for forming the sling. 3,067,570, 12–11–62, Cl. 57—142.
Nischk, Gunther, K. E. Müller, ½ to Bayer Aktiengesellschaft, Farbenfabriken, and ½ to Mobay Chemical Co. Reaction product of an isocyanate modified unsaturated polyester with an ethylenically unsaturated monomer and a polyamino compound, and process for preparing same. 3,047,-530, 7–31–62, Cl. 260—45.4.
Nisenson, Jules, to Dauntless Tool & Mfg. Corp. Electric can opener. 3,060,568, 10–30–62, Cl. 30—4.
Nishball, Jerome L. : *See*—
Trimble, Lyne S., Markakis, Nishball, and Leinberger. 3,017,234.
Nishihama, Archie A. Tool attaching means for circular rubbing machines. 3,044,091, 7–17–62, Cl. 15—49.
Nishihara, Tomio, to Japan Leather Mfg. Co., Ltd. Solubilization of insoluble collagen fibers and reconstitution thereof. 3,034,852, 5–15–62, Cl. 18—54.
Nishimura, Danny T. : *See*—
Nishebaek, Woodland E., and Nishimura. 3,018,161.
Nishioka, Jim Z., Sinker. 3,036,399, 5–29–62, Cl. 43—44.89.
Nishioka, Kazuichi, K. Adachi, and T. Nishioka. Apparatus for manufacture of phonograph records. 3,039,139, 6–19–62, Cl. 18—5.3.
Nishioka, Toru : *See*—
Nishioka, Kazuichi, Adachi, and Nishioka. 3,039,139.
Nishizawa, Jun-Ichi : *See*—
Watanabe, Yasushi, and Nishizawa. 3,042,844.
Niskin, Shale J., ½ to S. P. Clark. Turnbuckle with forked adjuster. 3,044,811, 7–17–62, Cl. 287—62.
Nisper, Kenneth J., and L. W. Matthews, to Muskegon Piston Ring Co. Ring installer. 3,066,398, 12–4–62, Cl. 29—222.
Nissan Chemical & Industries, Ltd. : *See*—
Suzuki, Shigeru, Shimoyamada, Akabayashi, Ogawa, and Iwatsuki. 3,055,735.
Nissel, Urban L. Ground fault protective device. 3,024,387, 3–6–62, Cl. 317—18.
Nissen, Roland N. Door mounting means. 3,053,293, 9–11–62, Cl. 144—27.
Nissen, Warren I., to The Gillette Co. Knife. 3,025,598, 3–20–62, Cl. 30—162.
Nissen, Warren I., to The Gillette Co. Safety razor spider. 3,060,852, 3–28–62, Cl. 30—60.5.
Nissenson, Phineas S., to Westinghouse Electric Corp. Position indicator. 3,030,574, 4–17–62, Cl. 324—34.
Nisser, Henrik G., and W. Breuninger, to J. M. Voith, Gesellschaft mit beschränkter Haftung. Flotation machine. 3,050,186, 8–21–62, Cl. 209—170.
Nissi, Franz, to Siemens & Halske Aktiengesellschaft. Method of doping a silicon monocrystal. 3,036,006, 5–22–62, Cl. 252—62.3.
Nissley, Samuel B., to Borg-Warner Corp. Shear pumps. 3,039,677, 6–19–62, Cl. 230—206.
Nistri, Raffaello. Electronic indicator of remaining range, in terms of time or distance or other conveyances driven by liquid-fuel engines. 3,029,632, 4–17–62, Cl. 73—113.
Nitchie, Charles D., to Koppers Co., Inc. Chain tool carrier with longitudinally overlapping cutters. 3,053,130, 9–11–62, Cl. 83—326.
Nitka, Heinz F., to General Aniline & Film Corp. Radiation detection and warning label. 3,051,837, 8–28–62, Cl. 250—83.
Nitka, Norbert J., and R. E. Davis, to The Oilgear Co. Press control. 3,026,677, 3–27–62, Cl. 60—52.
Nitkiewicz, Stanley L., to Abbey Etna Machine Co. Fin rolls for tube mills. 3,050,101, 8–21–62, Cl. 153—54.
Nitroglycerin Aktiebolaget : *See*—
Enoksson, Bertil P. 3,039,903.
Johansson, Carl H., and Ljungberg. 3,040,615.
Nitsch, Joseph L. Cutting blade. 3,024,533, 3–13–62, Cl. 30—355.
Nitsch, Robert A., to R. M. Holloway and R. L. Ludington. Slack adjuster for power transmission systems. 3,037,587, 6–5–62, Cl. 188—196.
Nitsch, Rudolf, to Siemens and Halske Aktiengesellschaft Berlin and Munich. Coordinate switch. 3,033,939, 5–8–62, Cl. 179—27.5R.
Nitsch, Rudolf, to Siemens & Halske Aktiengesellschaft. Electromagnetically actuating relays in coordinate switches. 3,053,938, 9–11–62, Cl. 179—27.54.
Nitschke, Norman C. : *See*—
McMaster, Harold A., and Nitschke. 3,015,910.
Nitto, Hajime : *See*—
Teshima, Seizo, Yonezaki, Nitto, and Obu. 3,027,269.
Nitzsche, Siegfried : *See*—
Müller, Robert, Buchheit, and Nitzsche. 3,032,439.
Nitzsche, Siegfried, and M. Wick, to Wacker-Chemie G.m.b.H. Silicone elastomers. 3,032,528, 5–1–62, Cl. 260—46.5.
Nitzsche, Siegfried, and M. Wick, to Wacker-Chemie G.m.b.H. Method for curing organopolysiloxane compositions with sulfur-containing compounds which are reducible by nascent hydrogen. 3,050,485, 8–21–62, Cl. 260—2.5.1.
Nitzsche, Siegfried, and M. Wick, to Wacker-Chemie G.m.b.H. Boron nitride containing self adhering silicone rubber. 3,050,490, 8–21–62, Cl. 260—37.
Nitzsche, Siegfried, and M. Wick, to Wacker-Chemie G.m.b.H. Method of preparing self-adhering organopolysiloxane elastomers. 3,050,491, 8–21–62, Cl. 260—37.
Nitzsche, Siegfried, and M. Wick, to Wacker-Chemie G.m.b.H. Method of reducing organometallic compounds. 3,061,424, 10–30–62, Cl. 75—108.
Nitzsche, Siegfried, and M. Wick, to Wacker-Chemie G.m.b.H. Method of preparing silicone rubber stocks comprising milling at a temperature above 60° in the presence of vulcanizing agent. 3,061,578, 10–30–62, Cl. 260—41.
Nitzsche, Siegfried, and M. Wick, to Wacker-Chemie G.m.b.H. Method of preparing silicone rubber compositions. 3,065,-194, 11–20–62, Cl. 260—37.
Nitzsche, Siegfried, and M. Wick, to Wacker-Chemie G.m.b.H. Silicone rubber stocks. 3,070,559, 12–25–62, Cl. 260—18.
Nitzsche, Siegfried, and M. Wick, to Wacker-Chemie G.m.b.H. Silicone elastomers. 3,070,566, 12–25–62, Cl. 260—37.
Nitzsche, Siegfried, and M. Wick, to Wacker-Chemie G.m.b.H. Organopolysiloxane masses that can be cured to obtain self-adhering elastomers. 3,070,567, 12–25–62, Cl. 260—37.
Niven, Charles F., Jr. : *See*—
Uttke, Robert G., and Niven. 3,057,735.
Niver, Joseph. Fecal collector for use in the cleaning of rugs and the like. 3,065,493, 11–27–62, Cl. 15—515.
Nixdorff-Krein Mfg. Co. : *See*—
Sander, Benjamin, and Rueff. 3,034,172.
Nixon, Billie B. and J. C. Automatic mail facing and sorting machine. 3,065,850, 11–27–62, Cl. 209—75.
Nixon, Charles E., to Adam Consolidated Industries, Inc. Insulated wire. 3,054,710, 9–18–62, Cl. 156—52.
Nixon, Cleveland F. : *See*—
Curtis, Ralph J., and Nixon. 3,042,365.
Nixon, Cleveland F., and R. J. Rowe, to General Motors Corp. Nickel chemical reduction plating bath and method of using same. 3,024,134, 3–6–62, Cl. 117—130.
Nixon, Geoffrey H. : *See*—
Shirley, Walter, Ramsden, and Nixon. 3,017,745.
Nixon, Joe C. : *See*—
Nixon, Billie E., and J. C. 3,065,850.
Nixon, John E., to The Colorado Fuel and Iron Corp. Reeling device. 3,041,044, 6–26–62, Cl. 254—160.
Nixon, Joseph R., Jr., to Hercules Powder Co. Phenol purification. 3,029,292, 4–10–62, Cl. 260—621.
Nixon, Joseph R., Jr., to Hercules Powder Co. Phenol purification. 3,029,293, 4–10–62, Cl. 260—621.
Nixon, Myron W. : *See*—
Shattuck, Owen M. 3,061,719.
Nixon, Ralph D., to The General Electric Co. Ltd. Photoconductive devices. 3,026,418, 3–20–62, Cl. 250—213.
Nixon, Stanley D., to Hazeltine Research, Inc. Directional light-transmissive screen. 3,037,419, 6–5–62, Cl. 88—1.
Nixon, Raymond F., to Beaver Tool & Engineering Corp. Quick change tool holder. 3,024,032, 3–6–62, Cl. 279—81.
Nixon, William G., to Universal Oil Products Co. Catalyst manufacturing with control of halogen. 3,017,369, 1–16–62, Cl. 252—441.
Nixon, William G., to Universal Oil Products Co. Manufacture of catalyst. 3,023,173, 2–27–62, Cl. 252—466.
Noack, Robert E. : *See*—
Guntert, Ronald M., Earley, and Noack. 3,064,217.
Noack, Rolf, and W. Hahn, to Kamera- und Kinowerke Dresden, VEB. Photographic camera. 3,031,939, 5–1–62, Cl. 95—10.
Noack, Rolf, and W. Hahn, to Kamera- und Kinowerke Desden, VEB. Photographic camera. 3,037,434, 6–5–62, Cl. 95—10.
Noah, George L. : *See*—
Woodworth, John A., Reeve, and Noah. 3,019,043.
Noakes, Thomas E. : *See*—
Kogan, Henry W., and Noakes. 3,045,874.
Noakes, Thomas E., to American Radiator & Standard Sanitary Corp. Refrigerant expansion valves. 3,021,108, 2–13–62, Cl. 251—61.
Noall, John, and R. R. Putt, to The Firestone Tire & Rubber Co. Apparatus for building tires. 3,019,153, 1–30–62, Cl. 156—406.
Noall, Michael W., Jr., to The Firestone Tire & Rubber Co. Tire siping machine. 3,018,822, 1–30–62, Cl. 157—13.
Nobel-Bozel : *See*—
Marcheguet, Henri G. L., and Gandon. 3,026,267.
Peto, Fernand, and Girard. 3,043,873.
Nobel Bozel, Societe : *See*—
Bondiou, Jean-Claude, and Petusseau. 3,016,385.
Gandon, Louis, Lehmann, Marcheguet, and Tarbourlech. 3,028,340.

Nobel, Fred I.: *See*—
Ostrow, Barnet D., and Nobel. 3,021,266.
Ostrow, Barnet D., and Nobel. 3,037,918.
Nobel, Leendert, to American Enka Corp. Process and apparatus for mixing. 3,051,452, 8–28–62, Cl. 259—4.
Nobelt Co., The: *See*—
Hardie, Harry. 3,040,330.
Scheitlin, Alexander. 3,064,269.
Nobereit, Albert. Hanger for curtains, draperies and accessories. 3,015,398, 1–2–62, Cl. 211—96.
Nobes, William D., to The Caldwell Mfg. Co. Adjustable connector for sash balance. 3,047,905, 8–7–62, Cl. 16—197.
Nobile, Arthur, to Schering Corp. 17α-alkyl-1-dehydro-testosterone. 3,060,092, 10–23–62, Cl. 167—74.
Nobilium Products, Inc.: *See*—
Prosen, Emil M. 3,023,500.
Nobis, John F., C. E. Frank, and E. A. Allgeier, to National Distillers and Chemical Corp. Glycol separation process. 3,067,260, 12–4–62, Cl. 260—637.
Noble, Bert. Automatic batching plant. 3,034,590, 5–15–62, Cl. 177—70.
Noble, David A. Food mold. 3,060,494, 10–30–62, Cl. 17—32.
Noble, Jack D., G. W. Bentley, and E. C. Rice. Plate-lifting device. 3,033,331, 5–8–62, Cl. 212—129.
Noble, Jack D., G. W. Bentley, and E. C. Rice. Plate-lifting device. 3,033,382, 5–8–62, Cl. 212—129.
Noble, John, and H. F. McKnight. Self-locking tire protective attire. 3,034,554, 5–15–62, Cl. 152—187.
Noble, John G., to Snow & Co. Ltd. Copying devices. 3,035,-565, 5–22–62, Cl. 125—11.
Noble, John W. Vacuum cleaning and mopping apparatus. 3,056,994, 10–9–62, Cl. 15—321.
Noble, Lowell A.: *See*—
Culbertson, Robert D., McRae, and Noble. 3,031,740.
Noble Mfg. Co.: *See*—
Długosch, Paul A. 3,021,908.
Noble, Percy W., to The American Fabrics Co., Inc. Lace thread-drawing and inspection system. 3,025,583, 3–20–62, Cl. 26—70.
Noble, Stuart D., 10% to V. D. Beehler. Sound recording and reproducing apparatus. 3,069,510, 12–18–62, Cl. 179—100.4.
Nobles, Thomas W.: *See*—
Haase, Elmer A., Nobles, Schnaible, and McCombs. 3,023,575.
Noblitt, Harvey L. Separation and recovery of volatile sulphides from sulphide materials. 3,042,501, 7–3–62, Cl. 23—294.
Nocek, Chester: *See*—
Czeropski, Robert S., Nocek, and Burachinsky. 3,031,961.
NoCord, Inc.: *See*—
Głowacki, John J., and Fox. 3,053,042.
Noda, Atsuro, to Nikka Rubber Co., Ltd. Shoe with grooved outsole to receive a foxing strip. 3,044,189, 7–17–62, Cl. 36—14.
Noda, Shozo, to Howa Kogyo Kabushiki Kaisha (known as Hawa Machinery Ltd.). Blending apparatus for draw frame. 3,067,471, 12–11–62, Cl. 19—243.
Noddin, George A.: *See*—
Coursen, David L., Noddin, and Reilly. 3,022,544.
Davis, Clyde O., and Noddin. 3,062,147.
Miller, Ross J., and Noddin. 3,021,786.
Noddin, R. C., to American Bosch Arma Corp. Combined starter and generator. 3,029,350, 4–10–62, Cl. 290—31.
Nodine, Leon R.: *See*—
Moreau, William J., and Nodine. 3,046,988.
Nodolf, Keith M., to Minneapolis-Honeywell Regulator Co. Fluid cleaning apparatus. 3,028,715, 4–10–62, Cl. 55—138.
Nodwell, William B. Overload sprocket for track laying vehicles. Re. 25,137, 3–13–62, Cl. 205—57.
Noe, Harold C., to Kidde Textile Machinery Corp. Tension compensating apparatus. 3,015,871, 1–9–62, Cl. 28—36.
Noe, Harold C., to Kidde Textile Machinery Corp. Take-up mechanism for knitting machines. 3,050,972, 8–28–62, Cl. 66—152.
Noe, Harold C., to Kidde Textile Machinery Corp. Yarn feeding means for warping machines. 3,063,123, 11–13–62, Cl. 28—38.
Noe, Harold C. Jr.: *See*—
Kirkpatrick, Willard H., Seale, and Noe. 3,047,495.
Noe, Leo B.: *See*—
Markson, John L., Noe, and Andersen. 3,065,419.
Noel, Dwight P., to American Viscose Corp. Strap end holder. 3,059,300, 10–23–62, Cl. 24—134.
Noel, Earl A.: *See*—
Van Lunen, Richard D., and Noel. 3,030,156.
Noel, Eugene M. Gridle-conveyor flight. 3,015,287, 1–2–62, Cl. 107—56.
Noel, Eugene M. Process for continuous proofing and grilling and apparatus therefor. 3,048,129, 8–7–62, Cl. 107—54.
Nöel, Fernand: *See*—
Oswald, Alexis A., Rupar, Ilnyckyj, and Nöel. 3,016,-349.
Noel, Robert A.: *See*—
Baize, James E., and Noel. 3,045,427.
Noel, Roland Y.: *See*—
Pfleger, Frederick W., and Noel. 3,051,955.
Noffke, Alvin J. Unreeler to unwind rolls of electrical wire. 3,017,136, 1–16–62, Cl. 242—129.
Noffsinger, Ralph L. Elevating conveyor chain. 3,061,077, 10–30–62, Cl. 198—195.
Noftz, Mearl E.: *See*—
Ball, Thomas E., Graham, Elliott, Hurst, and Noftz. 3,026,860.
Nogic, Leon. Gate. 3,059,358, 10–23–62, Cl. 39—31.
Noguchi, Yoshiyuki, 50% to T. Oki. Stepless speed changing means. 3,015,964, 1–9–62, Cl. 74—193.
Noguera, Joseph, to Casablancas High Draft Co. Ltd. Ring spinning frames. 3,043,083, 7–10–62, Cl. 57—36.
Noguera, Joseph, to Casablancas High Draft Co. Ltd. Brake devices for use with bobbin holders. 3,059,864, 10–23–62, Cl. 242—129.8.
Noid Corp.: *See*—
Dion, George C. 3,051,821.
Noiles, Douglas G., and D. A. Boylan, to Westinghouse Electric Corp. Apparatus for manufacturing electronic tubes. 3,046,876, 7–31–62, Cl. 101—41.
Noircierc, André, to Societe Industrielle de Liaisons Electriques, Electric connector. 3,031,589, 4–24–62, Cl. 307—136.
Nojima, Takeo. Rotating shaft bearing systems. 3,061,388, 10–30–62, Cl. 308—203.
Nojima, Takeo. Driving apparatus for hoist drums. 3,064,-946, 11–20–62, Cl. 254—185.
Noker, Alvin J.: *See*—
Worden, Dale S., and Noker. 3,024,001.
Nolan, Auldin D.: *See*—
Clifton, John R., and Nolan. 3,026,850.
Nolan, Edmond J.: *See*—
Hughes, Jesse E., Layton, Lozier, and Nolan. 3,047,440.
Nolan, Harry H.: *See*—
Blevins, Alonzo, Jr., and Carman. 3,059,273.
Nolan, James R., to Fruehauf Trailer Co. Side loading vehicle and portable container therefor. 3,040,919, 6–26–62, Cl. 214—302.
Nolan, John E., to American Radiator & Standard Sanitary Corp. Automatic shut-off faucet. 3,065,948, 11–27–62, Cl. 251—52.
Nolan, John H., to Monsanto Chemical Co. Defoliants. 3,023,095, 2–27–62, Cl. 71—2.2.
Nolan, John T., Jr., and H. Chafetz, to Texaco Inc. Polymerization process. 3,024,226, 3–6–62, Cl. 260—94.8.
Nolan, Robert W.: *See*—
James, Richard P., and Nolan. 3,070,540.
Nolan, Valery A.: *See*—
Zamboldi, George R., and Nolan. 3,030,544.
Noland, Albert R.: *See*—
Green, David J., Van Alstyne, Moore, Sanders, Bonness, Noland, and Olson. 3,031,658.
Noland, Richard F. Attachment for an oar. 3,025,538, 3–20–62, Cl. 9—24.
Noland, Robert A.: *See*—
Stone, Cecil C., and Noland. 3,045,108.
Noland, Robert L., to Reinhold Engineering & Plastics Co., Inc. Cold-working process for pressure vessel. 3,023,495, 3–6–62, Cl. 29—421.
Noland, Wayne B., to Woodford Mfg. Co. Means for adjustably regulating the flow of yard hydrants. 3,043,556, 7–10–62, Cl. 251—279.
Noland, Wayne B., to Woodford Mfg. Co. Portable dock plate platform. 3,061,125, 10–30–62, Cl. 214—620.
Noland, Wayne B., and W. R. Breneman, to Woodford Mfg. Co. Non-freezable yard hydrant. 3,070,116, 12–25–62, Cl. 137—302.
Nold, Henry G., to Holley Carburetor Co. Manual tape punch. 3,063,622, 11–13–62, Cl. 234—100.
Nolde, George V.: *See*—
Mathi, Walter E., and Nolde. 3,021,060.
Nolden, John L. Combined hoist and tailgate. 3,024,926, 3–13–62, Cl. 214—75.
Nolden, John L. Fluid-operated jack. 3,044,747, 7–17–62, Cl. 254—2.
Nolen, John L., deceased; M. Nolen, executrix. Garbage can stand. 3,028,134, 4–3–62, Cl. 248—149.
Nolen, Mildred: *See*—
Nolen, John L. 3,028,134.
Nolf, George H. Docking bar for boats. 3,060,885, 10–30–62, Cl. 114—230.
Noll, George C., to The Thew Shovel Co. Universal hoe stick. 3,049,226, 8–14–62, Cl. 214—145.
Noll, George C., and P. E. Wesebaum, to The Thew Shovel Co. Outriggers for crawler cranes, shovels, hoes and the like. 3,021,016, 2–13–62, Cl. 212—145.
Noll, George H.: *See*—
Wiesinger, Frederick C., and Noll. 3,023,595.
Noll, Hans, to Mauch-Motorenbau G.m.b.H. Blocking mechanism for claw clutches. 3,044,592, 7–17–62, Cl. 192—67.
Noll Mfg. Co.: *See*—
Hatcher, Robert L. 3,041,955.
Noller, Everett and W. Williams, to Crown Zellerbach Corp. Container with insert. 3,032,250, 5–1–62, Cl. 229—14.
Noller, Walter E., to Lynch Carrier Systems, Inc. Inband signalling system. 3,061,783, 10–30–62, Cl. 325—64.
Nolt, Edwin B.: *See*—
McDuffie, James W., and Nolt. 3,030,877.
McDuffie, James W., and Nolt. 3,044,390.
McDuffie, James W., and Nolt. 3,068,784.
Nolt, Edwin B., to Sperry Rand Corp. Baler control device. 3,022,622, 2–27–62, Cl. 56—341.
Nolt, Edwin B., to Sperry Rand Corp. Hay pelleter. 3,036,-515, 5–29–62, Cl. 100—41.

Nolt, Edwin B., to Sperry Rand Corp. Safety device. 3,036,-543, 5–29–62, Cl. 116—41.
Nolt, Edwin B., to Sperry Rand Corp. Hay baler. 3,059,569, 10–23–62, Cl. 100—98.
Nolt, Edwin B., and J. W. McDuffie, to Sperry Rand Corp. Safety device for tier needles. 3,027,825, 4–3–62, Cl. 100—19.
Nolt, Edwin B., and J. W. McDuffie, to Sperry Rand Corp. Hay baler. 3,040,508, 6–26–62, Cl. 56—341.
Nolte, Albert C.: *See*—
Proctor, Barton A. 3,059,933.
Nolte, Albert C., Jr.: *See*—
Content, Dirk. 3,028,950.
Montor, Karel. 3,024,310.
Nolte, Benjamin F., Jr. Charcoal grill. 3,040,651, 6–26–62, Cl. 99—446.
Nolte, David G., to Halifax Paper Co., Inc. Container holder. 3,029,935, 4–17–62, Cl. 206—47.
Nolte, Friedrich, H. Klug, L. Orthner, and H. Herzberg, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius and Brüning. Chlorination of polyethylenes having a density of more than 0.93. 3,035,038, 5–15–62, Cl. 260—94.9.
Nolte, Henry J., to General Electric Co. Method for metallizing ceramics and articles produced thereby. 3,039,892, 6–19–62, Cl. 117—118.
Nolte, May E. Floating server. 3,015,406, 1–2–62, Cl. 220—1.
Nolte, Robert K., to Metalwash Machinery Co. Article washing machine. 3,056,414, 10–2–62, Cl. 134—60.
Nolte, Vernon A.: *See*—
Bailey, Fred L., Jenkins, and Nolte. 3,059,063.
Noma Electric Co. Ltd.: *See*—
Atkins, John B. 3,069,650.
Noma Lites, Inc.: *See*—
Muenchinger, Herman G. 3,040,425.
Muenchinger, Herman G. 3,052,271.
Nomine, Gerard: *See*—
Hagemann, Guy, Nomine, Penasse, and Teillon. 3,052,-605.
Velluz, Leon, Nomine, and Bertin. 3,033,751.
Velluz, Leon, Nomine, and Penasse. 3,033,750.
Velluz, Leon, Nomine, Pierdet, Rousseau, and Penasse. 3,065,140.
Nomine, Gerard, to Roussel-UCLAF, S.A. Process for the preparation of substituted 17α-hydroxy-16α-methyl-pregnane-3,20-diones. 3,037,020, 5–29–62, Cl. 260—239.5.
Nomine, Gerard, to Roussel UCLAF, S.A. Novel cyclopentanonaphthalene compounds. 3,047,615, 7–31–62, Cl. 260—476.
Nomine, Gerard, and D. Bertin, to Les Laboratoires Francais de Chimiotherapie. Process for the preparation of novel derivatives of cyclopentanonaphthalene and products obtained thereby. 3,019,252, 1–30–62, Cl. 260—476.
Nomine, Gerard, D. Bertin, and J. Tessier, to Les Laboratoires Francais de Chimiotherapie. Preparation of estradiol and intermediates thereof. 3,020,296, 2–6–62, Cl. 260—397.45.
Nomine, Gerard, D. Bertin, and J. Jolly, to Roussel-UCLAF, S.A. Process for the preparation of 16α,17α-methyiene-21-hydroxy-Δ⁴-pregnene-3,11,20-trione and derivatives thereof. 3,032,567, 5–1–62, Cl. 260—397.45.
Nomine, Gerard, and R. Bucourt, to Les Laboratoires Francais de Chimiotherapie. Novel estradiene and preparation thereof. 3,033,856, 5–8–62, Cl. 260—239.5.
Nomine, Gerard, and L. Penasse, to Roussel-UCLAF, S.A. 4,5-benzo tryptamine and process of producing same. 3,036,-081, 5–22–62, Cl. 260—294.7.
Nominé, Gérard, and J. Cérède, to Roussel-UCLAF, S.A. Process for resolving a cyclic hydroxy acid. 3,043,865, 7–10–62, Cl. 260—501.
Nomine, Gerard, and D. Bertin, to Roussel-UCLAF, S.A. Novel process for the preparation of cyclopentanooctahydronaphthalene derivatives and products obtained in this process. 3,050,530, 8–21–62, Cl. 260—476.
Nomine, Gerard, R. Bucourt, and M. Vignau, to Roussel-UCLAF S.A. Novel estradienes and preparation thereof. 3,052,-672, 9–4–62, Cl. 260—239.5.
Nomine, Gerard, D. Bertin, and R. Bucourt, to Roussel-UCLAF, S.A. Novel nitrogen containing steroids. 3,055,-884, 9–25–62, Cl. 260—239.5.
Nomine, Gerard, D. Bertin, R. Bucourt, and A. Pierdet, to Roussel-UCLAF, S.A. Novel amino estratetraenes, intermediates, and process. 3,055,885, 9–25–62, Cl. 260—239.5.
Nomine, Gerard, D. Bertin, and M. Vignau, to Roussel-UCLAF, S.A. Preparation of estradiol and intermediates thereof. 3,056,811, 10–2–62, Cl. 260—397.5.
Nomine, Gerard, R. Bucourt, and A. Pierdet, to Roussel-UCLAF, S.A. Novel Δ¹·³-androstadienes and preparation thereof. 3,057,887, 10–9–62, Cl. 260—397.45.
Nomine, Gerard, and R. Bucourt, to Roussel-UCLAF. Saponification of esters of steroids. 3,061,617, 10–30–62, Cl. 260—397.4.
Nomine, Gerard, and L. Penasse, to Roussel-UCLAF, S.A. Separation of neomycins. 3,062,807, 11–6–62, Cl. 260—210.
Nomine, Gerard, D. Bertin, and H. Fritel, to Roussel-UCLAF, S.A. 2-methyl-17α-ethynyl-Δ¹·³-androstadiene-11β,17β-diol-3-one and process for its preparation. 3,068,252, 12–11–62, Cl. 260—397.45.
Nomine, Gerard, and R. Bucourt, to Roussel-UCLAF, S.A. Process for the preparation of Δ5(10)-estrene-17β-ol-3-one and intermediates. 3,069,421, 12–18–62, Cl. 260—239.55.
Nomura, Kanji: *See*—
Sonobe, Shiro, Tominaga, and Nomura. 3,043,923.
Nomura, Tadataka. Party line telephone circuit. 3,035,123, 5–15–62, Cl. 179—17.
Nonhebel, Dirk: *See*—
Huising, Wilhelmus B., Moeken, and Nonhebel. 3,053,644.
Nonnemacher, Gordon M.: *See*—
Blanchard, Robert W., and Nonnemacher. 3,029,304.
Nonnemacher, Helmut: *See*—
Steinhofer, Adolf, Bartholome, Frey, and Nonnemacher. 3,019,272.
Steinhofer, Adolf, Frey, and Nonnenmacher. 3,027,415.
Nonnenmacher, Gerhard, to Robert Bosch G.m.b.H. Bearing arrangement for a hydraulic machine. 3,053,192, 9–11–62, Cl. 103—126.
Nonvo Terapeutisk Laboratorium A/S: *See*—
Schlichtkrull, Jorgen. 3,058,885.
Noon, Robert W.: *See*—
Mann, Ralph J., and Noon. 3,016,728.
Noonan, James R., to International Business Machines Corp. Plural channel record read-out having means changing pulse slicing level in all channels in response to pulse presence in any channel. 3,026,483, 3–20–62, Cl. 328—168.
Noonan, James R., to International Business Machines Corp. Noise eliminator. 3,054,990, 9–18–62, Cl. 340—174.1.
Noonan, Joseph P.: *See*—
Coyne, John W. 3,045,386.
Noone, Daniel J. Carpet anchoring device. 3,064,302, 11–20–62, Cl. 16—16.
Noone, William H., to Allied Chemical Corp. Black water clarification. 3,043,426, 7–10–62, Cl. 209—12.
Noordenbos, Pieter K., to American Enka Corp. Package building. 3,025,657, 3–20–62, Cl. 57—75.
Noorduyn, Arnold, and F. A. Doorman, to Shell Oil Co. Polyvinyl chloride polymers. 3,068,184, 12–11–62, Cl. 260—23.
Nooteboom, John: *See*—
Bennett, William E., Nooteboom, and Weissberg. 3,053,099.
Nopco Chemical Co.: *See*—
Borenstein, Benjamin. 3,039,877.
Dombrow, Bernard A., and Lerner. 3,067,149.
Dombrow, Bernard A., and Lerner. 3,067,150.
Dombrow, Bernard A., and Nichols. 3,032,517.
Fetscher, Charles A., and Lipowski. 3,052,571.
Fetscher, Charles A., and Lipowski. 3,063,781.
Groll, Thomas F., Jr., and Stevens. 3,027,755.
Harrington, John V., Sendor, and Kelley. 3,024,198.
Hochberg, Melvin, and Ely. 3,067,104.
Klein, Howard, and Kapp. 3,032,562.
Klein, Howard, and Kapp. 3,037,996.
Klein, Howard C. 3,024,250.
Klein, Howard C. 3,057,877.
Liebling, Raymond, and Steckler. 3,064,057.
Lipowski, Stanley, and Fetscher. 3,029,212.
Ratish, Herman D., and Hochberg. 3,067,105.
Richter, Richard C. 3,038,008.
Richter, Richard C., and Batley. 3,067,243.
Noponen, Harold W.: *See*—
Bowers, Roy L., and Noponen. 3,067,880.
Noras, Frank H. Tree pads. 3,059,378, 10–23–62, Cl. 47—25.
Norberg, Harry A.: *See*—
Manley, John F., and Norberg. 3,045,660.
Norbury, Eric. Cattle pens and doors therefor. 3,051,127, 8–28–62, Cl. 119—99.
Norbute Corp.: *See*—
Russell, Walter J. 3,025,780.
Norco Products Co., Inc.: *See*—
Andrikides, Anthony L. 3,028,435.
Norcross, Inc.: *See*—
Luchsinger, Charles R. 3,035,363.
Norcross, James E.: *See*—
Wooding, Walter H., Thomas, and Norcross. 3,046,386.
Norcross, James E., to Arcos Corp. Consumable weld insert. 3,063,327, 12–18–62, Cl. 113—110.
Norcross, James E., and R. D. Thomas, Jr., to Arcos Corp. Welding process and electrode for aluminum. 3,059,093, 10–16–62, Cl. 219—74.
Nord-Aviation Societe Nationale de Constructions Aeronautiques: *See*—
Chevalier, Roger E. 3,064,930.
Foulon, Yvon. 3,035,410.
Foulon, Yvon. 3,037,552.
Nord, Gustav J. Extraction of juice and fabrication of products from the leaves of Agave lechuguilla and related species. 3,060,842, 10–30–62, Cl. 100—37.
Nord, Melvin: *See*—
Ojala, William K. 3,059,062.
Nord Photocopy and Electronics Corp.: *See*—
Kron, Eugene. 3,042,795.
Nord, Sven G. Dishwashing device. 3,068,096, 12–18–62, Cl. 239—315.
Nordahl, John G.: *See*—
Fujimoto, Akira, Nordahl, and Sandoval. 3,033,994.
Gray, Harry J., Jr., and Nordahl. 3,039,009.
Nordberg Mfg. Co.: *See*—
Becker, George D. 3,038,670.
Becker, George D., and Cheyette. 3,030,034.
Blix, Weltzin B., and Rushmer. 3,034,452.
Broman, John S. Re. 25,273.
Chapman, Everett. 3,050,850.
Cramer, Robert, Jr. 3,066,449.

Nordberg Mfg. Co.: *See*—Continued
Dorenbos, Richard E., and Tomka. 3,041,666.
Erickson, Bruce G., Metcalf, and Schuster. 3,016,690.
Froehlich, Kurt, and Griesbaber. 3,059,626.
Kelgard, Erik. 3,018,617.
Saari, Robert S. 3,026,051.
Schnackenberg, Fred W. 3,051,215.
Stauter, Hans F. 3,051,399.
Symons, Loren G. 3,019,904.
Symons, Loren G. 3,042,322.
Talboys, Henry H. 3,050,015.
Tomka, Joseph W. 3,062,423.
Tomka, Joseph W. 3,062,425.
Tomka, Joseph W. 3,067,498.
Tomka, Joseph W., and Cizek. 3,051,216.
Nordberg, Robert C.: *See*—
Parker, Leon, Wang, and Nordberg. 3,028,286.
Norddeutsche Schraubenund Mutternwerke A.G.: *See*—
Schrader, Jürgen. 3,016,260.
Norddeutsche Seekabelwerke Aktiengesellschaft: *See*—
Brückhäuser, Carl, and Lausen. 3,052,282.
Kebekus, Alfred, and Rosenboom. 3,017,314.
Nordell, Carl H. Seal for use between relatively movable members. 3,039,780, 6–19–62, Cl. 277—125.
Nordell, Eugene C.: *See*—
Barton, Leon M., and Nordell. 3,020,482.
Nordell, Eugene C., to General Electric Co. Signal processing arrangement. 3,042,915, 7–3–62, Cl. 343—7.7.
Norden, Alexander R., to Federal Pacific Electric Co. Switch and enclosure therefor. 3,028,459, 4–3–62, Cl. 200—50.
Norden, Alexander R., to Federal Pacific Electric Co. Circuit breakers. 3,040,144, 6–19–62, Cl. 200—88.
Norden, Alexander R., to Federal Pacific Electric Co. Sequence phased panelboards. 3,041,505, 6–26–62, Cl. 317—119.
Norden, Richard D.: *See*—
Perlman, Jacob L., and Norden. 3,031,408.
Perlman, Jacob L., and Norden. 3,031,409.
Nordetie, Inc.: *See*—
Huber, Robert E. 3,036,699.
Nordgren, Robert, to General Mills, Inc. Preparation of acrylonitrile di-adducts of primary aliphatic amines. 3,028,415, 4–3–62, Cl. 260—465.5.
Nordin, Elling H. Dental impression composition. 3,053,670, 9–11–62, Cl. 106—38.5.
Nordin, Obert L.: *See*—
Thornhill, Charles W., Hall, and Nordin. 3,049,140.
Nordin, Roy H.: *See*—
Van Geem, John D., and Nordin. 3,067,901.
Nordisk Insulinlaboratorium: *See*—
Poulsen, Jakob E., and Krayenbuhl. 3,060,093.
Nordiska Armaturfabriker, Aktiebolaget: *See*—
Wilhelmsson, Thure A., and Malmborg. 3,023,802.
Nordland, Rhoda B.: *See*—
Nordland, Oskar S. 3,054,650.
Nordling, Seth P.: *See*—
Chambers, Robert O., Nordling, and Ramsel. 3,021,729.
Nordlof, Richard D., to Mechanical Tool & Engineering Co. Stock feed mechanism. 3,038,645, 6–12–62, Cl. 226—149.
Nordmann, Camille: *See*—
Halbig, Paul, and Nordmann. 3,035,884.
Nordmark-Werke G.m.b.H.: *See*—
Wolf, Viktor, and Loop. 3,052,673.
Wolf, Viktor, and Loop. 3,052,674.
Wolf, Viktor, and Loop. 3,052,687.
Wolf, Viktor, and Loop. 3,052,688.
Nordqvist, Nils G., to North American Philips Co., Inc. Device for measuring and indicating the speed of a vehicle. 3,024,414, 3–6–62, Cl. 324—70.
Nordstrand, Sven G., to Claudo Aktiebolag. Fluid control valves. 3,064,683, 11–20–62, Cl. 137—625.2.
Noregaard, Raymond P. Electrically controlled locking mechanism and embossed card key therefor. 3,059,070, 10–16–62, Cl. 200—46.
Norehad, Onnig M. Radially adjustable reel. 3,026,060, 3–20–62, Cl. 242—110.1.
Noren, Charles H.: *See*—
Davis Clyde O., Fassnacht, Kirst, and Noren. 3,052,578.
Norfolk Iron & Wire Works, Inc.: *See*—
Sherman, William O., Jr. 3,021,155.
Norfolk Products Corp.: *See*—
Ransom, Robert B. 3,027,785.
Norgiel, Leo I. Ice skate blade. 3,036,840, 5–29–62, Cl. 280—11.13.
Norgren, Duane U., to United States of America, Atomic Energy Commission. Dark-field illumination system. 3,045,528, 7–24–62, Cl. 88—1.
Norland, Oskar S., deceased (by R. B. Nordland, executrix), to Her Mjesty the Queen in the right of Canada, as represented by the Minister of National Defence. Autopsy table. 3,054,650, 9–18–62, Cl. 312—209.
Norlin, Lars O. K., to AB International Marine and Oil Development Corp. Mooring devices. 3,067,716, 12–11–62, Cl. 114—230.
Norlin, Nils H. V. Mechanism for clamping plates to the cylinders of printing machines. 3,058,417, 10–16–62, Cl. 101—415.1.
Normacem S.A.: *See*—
Moressée, Georges, and Déchet. 3,059,323.
Normalair Ltd.: *See*—
Fitz-Gerald, Stanley C. 3,060,831.
Glover, Denys T., and Lovell. 3,019,423.
Orloff, George. 3,027,917.
Norman, Billy J., to Phillips Petroleum Co. Separation process and control system therefor. 3,032,479, 5–1–62, Cl. 202—40.
Norman, Daniel P., to Ipswich Processes, Inc. Material for receiving inscriptions and method of making. 3,063,864, 11–13–62, Cl. 117—36.8.
Norman, Daniel P., and L. W. Kinney, to J. W. Greere Co. Method of packaging food. 3,061,446, 10–30–62, Cl. 99—174.
Norman, Frances F. Lint type particle adhesive removal device. 3,029,453, 4–17–62, Cl. 15—104.
Norman, George H. C., to The International Nickel Co., Inc. Apparatus for roasting sulfides. 3,042,498, 7–3–62, Cl. 23—277.
Norman, Horace M.: *See*—
Hansen, Hans R. A., and Norman. 3,045,161.
Norman, Oscar L., to International Minerals & Chemical Corp. Methyl-2-keto-D-gluconate. 3,016,395, 1–9–62, Cl. 260—483.
Norman Products Co.: *See*—
Hambell, Ned G. 3,042,769.
Norman, Robert H., to Sperry Rand Corp. Nonsaturating bilevel transistor amplifier having, in common portion of input circuit and negative feedback circuit, a diode. 3,043,966, 7–10–62, Cl. 307—88.5.
Norman, Vello, and T. P. Whaley, to Ethyl Corp. Metal plating process. 3,018,194, 1–23–62, Cl. 117—107.
Norman, Vello, and T. P. Whaley, to Ethyl Corp. Method of metal plating with a group IV–B organometallic compound. 3,061,464, 10–30–62, Cl. 117—107.
Norman, Vello, and T. P. Whaley, to Ethyl Corp. Method of metal plating with a group IV–B organometallic compound. 3,061,465, 10–30–62, Cl. 117—107.
Normande de Matieres Plastiques, Societe Anonyme dite, Societe: *See*—
Fourcade, Robert, Cousin, Van De Walle, and Nicco. 3,038,972.
Normant, Henri M., to Societe des Usines Chimiques Rhone-Poulenc. Production of glycol monoethers. 3,017,437, 1–16–62, Cl. 260—611.
Normant, Henri M., to Societe des Usines Chimiques Rhone-Poulenc. Production of α-vinyl ketones. 3,059,032, 10–16–62, Cl. 260—590.
Norquist, Francis A. Folding chairs. 3,021,175, 2–13–62, Cl. 297—58.
Norrich Plastic Corp.: *See*—
Thaw, Norman L. 3,067,402.
Norrick, Robert F., to Joy Mfg. Co. Chuck mechanism. 3,028,170, 4–3–62, Cl. 279—123.
Norrick, Robert F., to Joy Mfg. Co. Dust control system. 3,070,180, 12–25–62, Cl. 175—206.
Norrie, George O.: *See*—
Bailey, Christopher E. G., and Norrie. 3,065,457.
Norrie, Robert H., to Pacific Car and Foundry Co. Hood-and-fender assembly for automotive trucks. 3,017,944, 1–23–62, Cl. 180—69.
Norris, Alan H.: *See*—
Brierley, Edgar, and Norris. 3,053,222.
Norris Dispensers, Inc.: *See*—
Norris, Lannie F. 3,050,216.
Norris, Edward O. Magneticalli spaced ball bearing. 3,016,274, 1–9–62, Cl. 308—199.
Norris, Edward O. Electrostatic spraying device. 3,017,116, 1–16–62, Cl. 239—15.
Norris, Harold W. Demountable steps and platforms for mobile homes. 3,043,396, 7–10–62, Cl. 182—106.
Norris, Herman E, to The National Cash Register Co. Calculating machine having shiftable differential mechanism and preconditioned type-of-operation control means. 3,064,–883, 11–20–62, Cl. 235—60.25.
Norris, James C., to General Motors Corp. Vacuum advance control mechanism. 3,046,962, 7–31–62, Cl. 123—117.
Norris, Lannie F., to Norris Dispensers, Inc. Chambered milk can with thermo-plastic insertable cover plate. 3,050,216, 8–21–62, Cl. 222—184.
Norris, Leonard. Subsoiler. 3,042,118, 7–3–62, Cl. 172—1.
Norris, Matthew S., to Gulf Research & Development Co. Separation of high molecular weight hydrocarbons with molecular sieves. 3,053,913, 9–11–62, Cl. 260—676.
Norris, Myron E., to American Bosch Arma Corp. Time delay circuit. 3,018,420, 1–23–62, Cl. 317—148.5.
Norris, Ralph, Ltd.: *See*—
Hejnochowicz, Rudolf N. 3,043,534.
Norris, Scott A., Jr., to Homestead Valve Mfg. Co. Method and apparatus for testing the sealing clearance in valves. 3,025,697, 3–20–62, Cl. 73—46.
Norris, William A. Oxidizer. 3,017,255, 1–16–62, Cl. 23—288.
Norristown Rug Mfg. Co.: *See*—
Logrippo, James. 3,054,707.
Norrmalms Industrier Aktiebolag: *See*—
Ohn, Gösta R. 3,065,553.
Norsk Spraengstofindustria A/S: *See*—
Samuelsen, Eirik. 3,034,867.
North, Albert M., and F. Walker, to L. B. Holliday & Co. Ltd. Metalized mono-azo dyestuffs. 3,067,191, 12–4–62, Cl. 260—145.
North American Aviation, Inc.: *See*—
Abbott, Wilton R. 3,062,266.
Akers, Robert C. 3,044,007.
Ashby, Robert M. 3,032,759.
Ashby, Robert M. 3,048,844.
Ballard, Louie W., and O'Dor. 3,045,106.

North American Aviation, Inc.: *See*—Continued
Barker, William T. 3,029,912.
Beanu, Donald W., and Wallace. 3,020,011.
Beers, Kenneth H. 3,025,466.
Bird, Joseph E. 3,065,354.
Bond, Robert W. 3,031,662.
Bower, John L. 3,037,286.
Boyd, Frederick R. 3,024,450.
Buxton, Elliott R. 3,059,880.
Campbell, James E., Roe, and Wheelock. 3,027,120.
Case, Robert O., Jr. 3,057,555.
Clark, Donald E. 3,063,135.
Cone, Ronald D. 3,023,326.
Cooper Arthur F. 3,070,071.
Corral, Joseph S. 3,060,564.
Cramer, Frank B. 3,022,149.
De Mott, Dale H. 3,021,096.
Dew, Joseph K. 3,065,599.
Dew, Joseph K. 3,067,577.
Dew, Joseph K. 3,067,971.
Dixon, Thomas F., Zeilberger, and Langworthy. 3,028,271.
Dobson, Franklin A. 3,064,317.
Dozier, Leonard C., Jr. 3,050,995.
Duffy, Wayne E. 3,062,728.
Duncan, Donal B., and Singleton. 3,057,211.
Dyer, George A., and Patterson. 3,028,473.
Edens, Samuel V., Goodrich, and Seals. 3,047,762.
Etheridge, Frederick G. 3,042,344.
Evans, Walter R., and Dorsman. 3,070,712.
Fairbanks, Avard F. 3,025,515.
Fairbanks, Avard F. 3,064,924.
Fineblum, Solomon S. 3,015,461.
Frazier, Lewis E. 3,020,851.
Gehrkens, George R. 3,033,497.
Grant, Frederic F. 3,067,427.
Haerr, Roger S. 3,025,905.
Harper, Robert W. 3,070,743.
Hayes, Walter C., and Dickinson. 3,044,872.
Hayes, Walter C., and Shepard. 3,043,680.
Hendrichsen, Knut. 3,051,194.
Henrichsen, Knut. 3,058,196.
Hertz, Theodore M., and Young. 3,049,296.
Hovda, Robert E., Goode, and Roehl. 3,062,955.
Hovda, Robert E., and Muhiestein. 3,037,167.
Hukee, Russell E. 3,040,157.
Hukee, Russell E. 3,047,272.
Hukee, Russell E., and Dunklee. 3,051,815.
Katz, Irving, Plew, and Wilson. 3,028,342.
Kerber, Stanley M., Randall, and Hovda. 3,025,395.
Kibele, Robert E. 3,026,678.
Klein, Martin L., Morgan, and Goudey. 3,017,582.
Klein, Martin L., and Surtees. 3,056,949.
Kojalowicz, Anthony M. 3,023,323.
Kunz, Walden H. 3,040,222.
Loewe, Richard T. 3,034,101.
Marcum, Norman E., and Farrand. 3,047,869.
Marsh, John L., Nord, and Andersen. 3,065,419.
Mayer, Stanley W. 3,032,600.
Melill, Joseph, and Salmassy. 3,061,487.
Metzler, Edward C., Jr., and Clancy. 3,020,260.
Meyers, Gilbert W. 3,056,848.
Miller, Victor A., and Horsfall. 3,018,378.
Morgan, George W. 3,038,141.
Mullins, William D., Jr. 3,029,636.
O'Dair, James R., Solomon, and Holtz. 3,068,690.
Oelgoetz, Paul A. 3,017,341.
Oelgoetz, Paul A. 3,039,950.
Ollodort, Morris. 3,017,141.
Pearce, Rufus B., Jr. 3,020,717.
Pentecost, Eugene E. 3,045,154.
Peterman, Milton J., and Miller. 3,017,023.
Pfefferkorn, Otto T. 3,041,277.
Picardi, Joseph E., and Crowley. 3,029,647.
Price, James E. 3,030,237.
Roberson, Robert E., and Breakwell. 3,031,154.
Roberson, Robert E., Rogers, and Martin. 3,048,108.
Rohrberg, Roderick G., and Boyd. 3,032,870.
Romberg, Edgar B. 3,070,024.
Seeley, Bernard G., and Weeks. 3,035,995.
Shedley, Rulon G. 3,034,116.
Sher, Bernard L. 3,058,063.
Silverman, Louis, and Sallach. 3,044,869.
Simon, Wayne E. 3,016,745.
Slater, John M. 3,039,316.
Slater, John M., and Ackerman. 3,048,043.
Slater, John M., and Boltinghouse. 3,025,708.
Slater, John M., Findley, and Leicester. 3,029,646.
Slater, John M., Wilcox, and Pondrom. 3,062,051.
Smith, Raymond B. 3,058,061.
Smith, Raymond B., Simmons, and Hall. 3,024,365.
Smith, Robert E., and Jewell. 3,036,598.
Spain, Frank N., and Van Pappelendam. 3,067,494.
Vandenberg, Cornelius E. 3,024,941.
Vawter, Donald D. 3,068,746.
Vorwerk, Vernon R., and Morin. 3,050,940.
Wallace, Frank H. 3,027,126.
Weeks, Ivan F. 3,028,327.
Weeks, Ivar F. 3,041,134.
Wiley, Frank L. 3,060,320.
Young, Louis C. 3,029,600.
Zerwick, John H. 3,050,325.

North American Chemical Co.: *See*—
Sackett, Ernest D. 3,039,885.
Spence, Robert A. 3,046,579.
North American Coal Corp., The: *See*—
Savage, Robert L. 3,061,524.
North American Gear Co.: *See*—
Graff, Paul W. 3,026,619.
North American Philips Co., Inc.: *See*—
Aagaard, Einar A. 3,042,816.
Ahsmann, Gerardus J. M. 3,020,436.
Allin, Philip E. V., and Smith. 3,015,787.
Anderson, Charles H. J., and Friedericlis. 3,026,408.
Archer, John, and Owner. 3,033,943.
Aviner, Michael. 3,053,772.
Backer, Franciscus T., and Wessels. 3,053,942.
Bakos, Gyorgy. 3,023,942.
Balder, Theodorus C. 3,042,792.
Beale, Julian R. A. 3,069,297.
Beucher, Charles. 3,066,201.
Bijloo, John D., Uhlenbrock, and Daams. 3,050,442.
Birt, David R. 3,070,727.
Blank, Hans H., van Zanten, Kuiper, and Almer. 3,020,224.
Bloem, Jan. 3,047,380.
Blok, Lourens. 3,021,413.
Boekhorst, Antonius. 3,042,879.
Boerdijk, Arie H., and Holst. 3,034,081.
Boldingh, Willem H. 3,027,460.
Brasseur, Bernard, Le Cargasson, and Perilhou. 3,046,-098.
Brockman, Frank G., Beck, and Matteson. 3,039,966.
Bronnes, Robert L. 3,057,445.
Bruijning, Hugo G. 3,015,778.
Bruining, Hajo. 3,037,564.
Bügel, Roelof D., and Boone. 3,015,759.
Buro, Paul. 3,067,317.
Buykx, Wilhelmus J. 3,036,007.
Cleven, Antoon J. 3,045,713.
Cluwen, Johannes M. 3,047,740.
Coe, Thomas. 3,044,977.
Cupido, Piet M., and Comijn. 3,054,188.
Danker, Berend. 3,047,813.
Dauget, Jacques. 3,024,312.
Davidse, Jan. 3,070,653.
Davis, Charles W. V. 3,062,376.
De Bruyn, Hendrik E. 3,047,707.
De Jager, Frank, and Greefkes. 3,020,352.
De Klerk, Antonie C. 3,038,111.
Dell, Hugh A., and Snelling. 3,046,501.
De Miranda, Heine A. R. 3,047,739.
De Miranda, Heine A. R., Cluwen, and Tulp. 3,038,084.
De Miranda, Heine A. R., and Tulp. 3,024,367.
De Miranda, Jacobus R., Boon, and Dellege. 3,020,488.
De Nobel, Dirk, and Kroger. 3,033,791.
De Ruiter, Jacob W. 3,061,768.
De Troye, Nicolaas C. 3,015,808.
De Vries, Gerrit. 3,038,153.
Deylius, Hendrik J. 3,041,799.
Diemer, Gesinus. 3,043,958.
Diemer, Gesinus. 3,043,959.
Diemer, Gesinus. 3,061,781.
Diemer, Gesinus, Duinker, de Haan, and van Santen. 3,056,887.
Dolphin, Johannes H., and van der Ster. 3,069,863.
Dressler, Heinz. 3,036,378.
Duinker, Simon, and Bos. 3,024,318.
Duinker, Simon, and Bos. 3,058,200.
Duinker, Simon, and Heijn. 3,019,977.
Duinker, Simon, and Wormeef. 3,032,758.
Duinker, Simon, Stuijts, Wija, and Westmijze. 3,023,-166.
Ebbinge, Willem. 3,061,792.
Ebbinghaus, Kurt, and Krieger. 3,041,483.
Eisele, Karl L., and Forster. 3,056,927.
Ensink, Johannnes, and Verhagen. 3,024 313.
Erkelens, Johannes, and Nijboer. 3,062,362.
Erkelens, Johannes, and Nijboer. 3,066,396.
Esseling, Ludovicus A. L. 3,015,761.
Ettema Everhardus C. 3,070,717.
Fastre, Joseph J., and Neuhuys. 3,032,862.
Fine, Samuel, and Hendee. 3,034,055.
Fokker, Herman. 3,050,933.
Förster, Gerhard. 3,061,787.
Forster, Gerhard, Hilke, and Ganss. 3,037,565.
Francken, Jan C. 3,015,749.
Franssen, Nico V., and Mensen. 3,070,669.
Frouws, Simon M. 3,060,340.
Frouws, Simon M. 3,067,353.
Frouws, Simon M., and Horseling. 3,054,920.
Geneve, Raoul. 3,030,449.
Gerlach, Hans G. 3,059,329.
Gieles, Joannes P. M. 3,061,801.
Goorissen, Jan. 3,067,139.
Goorissen, Jan, and Maaintveld. 3,062,691.
Gorter, Evert W., Lotgering, and Blejers. 3,046,227.
Gorter, Evert W., Wijn, and Esveldt. 3,030,306.
Gosslau, Wolf D. 3,042,869.
Grimmeiss, Hermann G., Koelmans, and Maak. 3,027,-329.
Grunwaldt, Gottfried. 3,068,368.
Gschwender, Alois. 3,051,812.
Harrick, Nicolas J. 3,033,993.

North American Philips Co., Inc.: *See*—Continued
Heetman, Alphonsus. 3,020,353.
Heijligers, Hendrik. 3,027,421.
Heiju, Herman J., Klinkhamer, Samwel, and De Miranda. 3,020,117.
Heiju, Herman J., Samwel, and Tulp. 3,053,994.
Heiju, Herman J., and Selman. 3,056,551.
Hermes, Willem. 3,042,839.
Hermsen, Johannes, Kraaijeveld, and Warmoltz. 3,047,760.
Hermsen, Johannes, and Van Duuren. 3,056,059.
Hoekstra, Age H., and Wanmaker. 3,060,129.
Hoffmann, Bruno. 3,015,490.
Hofker, Willem K. 3,062,984.
Hofman, Wytze. 3,067,366.
Hofman, Theodoor H. 3,015,742.
Houben, Jan A., Van Meyl, and Speyer. 3,043,722.
Hugenholtz, Eduard H. 3,030,588.
Huising, Wilhelmus B., Moeken, and Nonhebel. 3,053,644.
Huisman, Henderikus O., and Meltzer. 3,027,298.
Huisman, Henderikus O., and Smit. 3,056,834.
Janssen, Peter J. H., and Boekhorst. 3,024,307.
Janssen, Peter J. H., Boekhorst, and Smeulers. 3,061,757.
Janssen, Peter J. H., and Moggre. 3,020,484.
Janssen, Peter J. H., and Smeulers. 3,020,480.
Janssen, Peter J. H., and Smeulers. 3,066,183.
Janssen, Peter J. H., Smeulers, and Eisele. 3,061,674.
Janssen, Peter J. H., and Van de Vijver. 3,056,929.
Janssen, Peter J. H., and van de Vijver. 3,066,265.
Janssen, Peter J. H., and van de Vijver. 3,070,758.
Janssen, Leonard E. 3,024,422.
Jeynes, Graham F. 3,056,901.
Jochems, Pieter J. W. 3,043,726.
Jonker, Gerard H. 3,043,776.
Jonker, Gerard H., and Braun. 3,020,235.
Kaashoek, Johannes, and Poorter. 3,051,912.
Kindl, Friedrich. 3,015,491.
Kirchner, Norbert, and de Jong. 3,031,622.
Kleis, Derk. 3,024,309.
Kleis, Derk. 3,036,164.
Kleis, Derk, and Snoek. 3,070,658.
Kleis, Derk, and Vermeulen. 3,015,701.
Klinkhamer, Jacob F. 3,015,697.
Koelmans, Hein, and Verhagen. 3,060,128.
Koesling, Heinz. 3,051,811.
Koesling, Heinz. 3,056,878.
Köhler, Jacob W. L., Dros, and Ijzer. 3,033,003.
Kohler, Jacob W. L., Rinia, and Piet. 3,045,982.
Koopman, Harmannus, and Daams. 3,027,248.
Koopmans, Martinus J. 3,031,483.
Koster, Johannes A. 3,024,361.
Koster, Johannes A. 3,038,125.
Kotte, Jan. 3,045,538.
Kralt, Teunis, and Moed. 3,067,206.
Kralt, Teunis, and van Dijk. 3,046,280.
Kralt, Teunis, and van Dijk. 3,053,894.
Kröner, Klaus. 3,051,888.
Kuipers, Pieter G. 3,057,919.
Kuppens, Bernadus J. 3,046,437.
Ladell, Joshua. 3,046,399.
Lalesse, Herman C. 3,026,382.
Laser, Jakob. 3,062,960.
Le Comte, Corstiaan. 3,061,753.
Leopold, Frans M. 3,015,592.
Le Poole, Jan B. 3,030,506.
Lingers, Franciscus. 3,026,442.
Loy, Fernand. 3,031,576.
Manley, Brian W., and Murphy. 3,021,458.
Meewezen, Willem D. 3,056,915.
Megens, Ludovicus, and Lenders. 3,023,979.
Meijer, Barend M. 3,020,428.
Meijer, Roelf J. 3,036,427.
Meijer, Roelf J. 3,050,949.
Meijer, Roelf J., and Hermans. 3,015,475.
Meisen, Franciscus A. 3,023,883.
Melsert, Hans. 3,056,061.
Meys, Johannes J. C. 3,070,738.
Moed, Hendrik D. 3,056,836.
Moerman, Willem J. 3,059,089.
Mothersole, Peter L. 3,038,026.
Mulder, Jan. 3,062,509.
Newell, Allen F., and Stephenson. 3,034,073.
Nijhuis, Herman C., and Roovers. 3,024,299.
Nijhuis, Herman C., and Roovers. 3,058,209.
Nordqvist, Nils G. 3,024,414.
Nyman, Curt E. 3,046,157.
Okkerse, Boudewijn. 3,033,660.
Opsteiten, Johannes J., Warmoltz, and Van Zelst. 3,066,535.
Opsteiten, Johannes J., Warmoltz, and Van Zelst. 3,066,536.
Owner, John L., and Archer. 3,070,668.
Palthe, Bertold R. van W. 3,024,076.
Pannenborg, Anton E., and Calon. 3,042,883.
Perge, Andreas. 3,046,021.
Plat, Auke, and Recourt. 3,015,796.
Poorter, Teunis. 3,015,691.
Poorter, Teunis. 3,034,067.
Poorter, Teunis, and Valeton. 3,015,751.
Potzl, Fritz. 3,065,752.
Ragosch, Ernst, and Gerke. 3,041,521.
North American Philips Co., Inc.: *See*—Continued
Reifenschweiler, Otto, and Schenkelaars. 3,030,167.
Reijnst, Maximilien F. 3,020,503.
Repko, Jan D. 3,015,766.
Repko, Jan D., and Verheijden. 3,015,765.
Reynst, Maximilien F. 3,062,977.
Roessing, Lothar. 3,069,772.
Roggon, Robert. 3,067,369.
Rosier, Gerardus. 3,047,735.
Rupp, Karl. 3,037,569.
Schagen, Pieter, and Turnbull. 3,027,218.
Schayes, Raymond G., and Ensink. 3,015,780.
Schepman, Felix R., Wittenberg, and van Langen. 3,046,360.
Schmidt, Arthur. 3,056,876.
Schmidt, Wolfgang. 3,048,686.
Schmidt, Wolfgang, and Potzl. 3,056,877.
Schmitz, Mattheus J., Schouten, and Treure. 3,066,191.
Schoenmakers, Wijnand J. 3,066,282.
Scholte, Joannes W. A. 3,046,457.
Scholten, Jan. 3,023,890.
Schoot, Cornelis J., and Baans. 3,057,925.
Schoot, Cornelis J., Klaassens, and Ponjee. 3,045,050.
Schoot, Cornelis J., Klaassens, and Ponjee. 3,060,193.
Schoot, Cornelis J., Koopmans, and Van Den Bos. 3,048,924.
Siezen, Gerrit J. 3,042,750.
Skoyles, Derek R. 3,035,198.
Smeulers, Wouter. 3,070,753.
Spaa, Jacob H., and de Haan. 3,015,729.
Starre, Gerrit. 3,062,975.
Suhrmann, Robert. 3,025,345.
Suhrmann, Robert, and Forester. 3,047,656.
Tedisch, Karl. 3,023,975.
Teer, Kees. 3,051,776.
Ten Ham, Evert J., and Wilson. 3,032,468.
Troelstra, Sjerp A. 3,051,659.
Uhlenbroek, Jan H. 3,053,901.
Uhlenbroek, Jan H., and Meltzer. 3,054,719.
Uhlenbroek, Jan H., and Van den Bos. 3,051,615.
Vaes, Petrus J. J. 3,032,873.
Vaes, Petrus J. J. 3,061,925.
Van Amstel, Johannes J. A. P. 3,067,368.
Van Cort, Johannes F., and Bakker. 3,047,783.
Van Daal, Hubert J., Knippenberg, and Huizing. 3,047,439.
Van den Berge, Hendrik J., Bliek, Geleijnse, and van der Maat. 3,019,505.
Van den Blink, Willem P. 3,026,406.
Van Den Blink, Willem P., and Ettema. 3,056,016.
Van den Blink, Willem P., ter Haar, and Ettema. 3,021,418.
Van De Polder, Leendert J. 3,033,921.
Van der Burgt, Cornelis M. 3,020,426.
Van der Burgt, Cornelis M. 3,021,119.
Van der Burgt, Cornelis M. 3,021,120.
Van der Horst, Hajo L., and van Vlodrop. 3,015,783.
Van der Horst, Hajo L., and van Vlodrop. 3,024,427.
Van der Linden, Petrus G. 3,027,277.
Van der Voorn, Hendrikus W., and Van Iperen. 3,060,342.
Van de Weijer, Martinus H. A. 3,023,069.
Van Geel, Theodorus L. C., and Joormann. 3,043,979.
Van Houten, Jan C. 3,019,482.
Van Houten, Jan C. 3,060,516.
Van Houten, Jan C. 3,068,512.
Van Overbeek, Adrianus J. W. M. 3,038,136.
Van Overbeek, Adrianus J. W. M., Willems, and van Lottum. 3,066,258.
Van Santen, Johannes G., and Diemer. 3,015,731.
Van Santen, Johannes G., and Esvelt. 3,015,770.
Van Tol, Hendrikus J. M., and den Dulk. 3,054,430.
Van Vlodrop, Peter H. G. 3,041,500.
Vass, Eric B. 3,015,785.
Verhoeff, Jacob. 3,023,871.
Verkruissen, Arie F. 3,061,793.
Verster, Nico F. 3,024,379.
Verstraten, Jan. 3,027,442.
Vonk, Cornelis. 3,020,345.
Waarle, Godfried H., and Vervest. 3,069,611.
Wagensveld, Gottfried, and Dohmstreich. 3,021,391.
Wanmaker, Willem L., Bakker, and Arents. 3,059,133.
Warmoltz, Nicolaas, and Schampers. 3,030,538.
Weil, Frits. 3,015,760.
Wessels, Johannes H. 3,038,104.
Wigley, Patrick A., and Lister. 3,042,746.
Wijdeveld, Petrus W. J., Scholtze, and Bosters. 3,063,755.
Witterberg, Nico. 3,051,495.
Wolfendale, Eric. 3,049,677.
Wytzes, Sjoerd. 3,060,314.
Ziggel, Robert. 3,033,034.
North, James, & Sons Ltd.: *See*—
Marsden, John E., and White. 3,065,096.
White, Harold, and Gee. 3,027,293.
North, John W., to Glasrock Products, Inc. Ceramic body. 3,059,296, 10–23–62, Cl. 22—193.
North & Judd Mfg. Co.: *See*—
De Nicolo, William V. 3,021,031.
Heil, Edward K. 3,069,688.
Heil, Edward K. 3,069,740.
Lundeberg, Edgar C. 3,059,811.
Lundeberg, Edgar C. 3,059,812.
Whitehouse, John H. 3,065,003.

Northcote, John A., and J. Kulak, to Deere & Co. Belt shields for stalk cutters. 3,043,082, 7–10–62, Cl. 56—503.
Northcott, Elliott, to International Minerals & Chemical Corp. Phosphate ore beneciation process entailing reagent recovery. 3,032,197, 5–1–62, Cl. 209—166.
Northeast Capital Corp.: *See*—
Molnitt, Thomas L., and Herrmann. 3,019,311.
North Electric Co.: *See*—
Bennett, Peter H., and Bauman. 3,046,351.
Bixby, William H. 3,040,233.
Dahlman, Per O. 3,051,792.
Greshel, Leonard J. 3,041,422.
Jordan, John S. 3,042,775.
Northern Electric Co., Ltd.: *See*—
Loro, Alberto. 3,048,093.
Rywak, John. 3,036,227.
Rywak, John. 3,060,350.
Northern Engineering Works: *See*—
Kular, Zenon A. 3,029,941.
Lagasse, Joseph L., and Malone. 3,017,313.
Russell, Samuel L., Jr. 3,028,477.
Vogt, Albert F. 3,029,372.
Northern Ordnance, Inc.: *See*—
Peterson, Vernon E. 3,030,011.
Northern Signal Co., Inc.: *See*—
Nunn, Ewing D. 3,015,804.
Northern Trust Co., The: *See*—
Coleman, Edwin D., and Staunton. 3,023,664.
Rutten, Walter. 3,051,214.
Northrop, Arthur W., and S. J. Yevchak, to International Business Machines Corp. Removal tool. 3,045,336, 7–24–62, Cl. 29—203.
Northrop Corp.: *See*—
Benoit, Conrad H. 3,016,273.
Bowman, Eldon L. 3,021,565.
Bowman, Eldon L. 3,046,175.
Bridwell, Robert A. 3,015,292.
Bridwell, Robert A. 3,015,711.
Dixson, Bruce E. 3,015,457.
Dixson, Bruce E. 3,027,841.
Ewing, Edgar G. 3,015,513.
Ferm, Joseph S. 3,029,057.
Herman, Virgil L., Muller, and Bowman. 3,064,345.
Moisson, George M., Jr. 3,041,229.
Moisson, George M., Jr. 3,056,596.
Moore, Douglas A. 3,028,767.
Morse, Edward P. 3,016,491.
Mowatt, Allan Q. 3,047,648.
Oliver, John E. 3,058,714.
Packard, Henry. 3,043,196.
Pierce, Wallace B. 3,064,471.
Rodgers, Thomas E. 3,039,349.
Steele, Floyd G. 3,015,960.
Swainson, Edward L. 3,020,627.
Swainson, Edward L. 3,032,730.
Swainson, Edward L., and Borg. 3,046,797.
Taylor, Philip H. 3,015,249.
Vogel, Alvin R., Ruch, and Bagby. 3,015,702.
Walker, Howard M. 3,029,049.
Winitzer, Albert J. 3,052,718.
Northrup, King & Co.: *See*—
Kobs, Roger D. 3,032,927.
Kobs, Roger D. 3,055,507.
Northrup, Milton G., and D. F. Pinkerton, to The Marquardt Corp. Filter and precipitator. 3,046,717, 7–31–62, Cl. 55–320.
Northup, Joseph A., Jr., and R. I. Walden, to Leesona Corp. Suction apparatus for winding machines. 3,027,107, 3–27–62, Cl. 242—35.6.
North Western Gas Board and Clayton Aniline Co. Ltd., The: *See*—
Nicklin, Thomas, Sommerville, Brunner, and Isherwood. 3,035,889.
Northwestern Steel & Wire Co.: *See*—
Beil, George W. 3,027,954.
Stewart, William R., and Bosco. 3,033,350.
Northwood, John V., and J. W. Rosher; said Northwood assor. to S. M. Northwood. Fireplace. 3,049,113, 8–14–62, Cl. 126—120.
North Woods Coffee Co.: *See*—
Chase, Fletcher A. 3,051,575.
Northwood, Sadie M.: *See*—
Northwood, John V., and Rosher. 3,049,113.
Norton, Charles J., to The Ohio Oil Co. Method of finishing normally impervious plastics and articles produced thereby. 3,028,263, 4–3–62, Cl. 117—138.8.
Norton, Clarence E. and T. B. Modine. Water ski rope reel. 3,028,116, 4–3–62, Cl. 242—86.5.
Norton Co.: *See*—
Anderson, Clarence W. 3,064,399.
Backer, William R. 3,015,195.
Bibbins, Gareth L. 3,036,907.
Camp, John E., Mueller, Sandholdt, and Haywood. 3,020,139.
Coes, Loring, Jr. 3,062,633.
Coes, Loring, Jr. 3,064,396.
Crocker, Theodore R., Ronan, and Van Acker. 3,062,343.
Crompton, George. 3,061,529.
Erickson, John R. Re. 25,303.
Haywood, George L. 3,016,294.
La Fleur, Elphege D. 3,041,792.
Lowe, Edwin C. 3,025,192.
Norton Co.: *See*—Continued
Lowe, Edwin C. 3,036,888.
Lowther, Dwight R., and Wright. 3,054,232.
Martin, Dana W. 3,019,503.
Mulheren, Joseph D., and Guinan. 3,066,794.
Olton, Durck J. 3,019,510.
Rowse, Robert A., and Stinchfield. 3,041,156.
Smith, Stephen H. 3,034,268.
Webber, Charles S. 3,028,259.
Wespi, George E. 3,033,187.
Norton, David de R.: *See*—
Bouchard, John R., and Norton. 3,035,238.
Norton, David E.: *See*—
Greenhaigh, Roger C., and Norton. 3,049,291.
Norton, David E. P.: *See*—
Wilde, John, and Norton. 3,044,286.
Norton, David J., to Westinghouse Brake and Signal Co., Ltd. Tractive armature relays. 3,026,456, 3–20–62, Cl. 317—187.
Norton, Desmond H., and J. D. Castleberry, to United States of America, Army. Vertical-horizontal forklift drum handling attachment. 3,015,402, 1–2–62, Cl. 214—620.
Norton, Douglas L.: *See*—
Norton, Henry, H. V., L. B., and D. E. 3,033,170.
Norton, Henry, H. V., L. B., and D. E. 3,067,624.
Norton, Douglas N., 56% in small interests to various assignees. Conduit forming machine. 3,060,539, 10–30–62, Cl. 29—36.
Norton, Frederick H.: *See*—
Hartwig, Frederick J., and Norton. 3,066,504.
Norton, Frederick H., to The Dow Chemical Co. Tris(pentahalophenyl) borates. 3,067,236, 12–4–62, Cl. 260—462.
Norton, Harry W., to Flight Refueling Ltd. Coupling devices for railway vehicles. 3,016,152, 1–9–62, Cl. 213—89.
Norton, Henry, H. V., L. B., and D. E., to Norton Tool Co. Ltd. Hydraulic ram apparatus. 3,033,170, 5–8–62, Cl. 121—38.
Norton, Henry, H. V., L. B. and D. E., to Norton Tool Co. Ltd. Pumps, compressors and engines. 3,067,624, 12–11–62, Cl. 74—50.
Norton, Hubert V.: *See*—
Norton, Henry, H. V., L. B., and D. E. 3,033,170.
Norton, Henry, H. V., L. B., and D. E. 3,067,624.
Norton, L.: *See*—
Bennett, Worthy L. 3,043,228.
Norton, Leslie B.: *See*—
Norton, Henry, H. V., L. B., and D. E. 3,033,170.
Norton, Henry, H. V., L. B., and D. E. 3,067,624.
Norton, Lou C. and R. R., 10% to A. F. Graf von Soden. Infusion apparatus for blood plasma and the like. 3,044,-663, 7–17–62, Cl. 222—39.
Norton, Lowell E., to Radio Corp. of America. Maser. 3,038,124, 6–5–62, Cl. 330—4.
Norton, Oliver W.: *See*—
Supitilov, Michael C., Johnson, and Norton. 3,061,873.
Norton, Orlo C. Air drier. 3,050,920, 8–28–62, Cl. 55—280.
Norton, Robert E. Bait attaching means for barbed hooks. 3,040,467, 6–26–62, Cl. 43—42.29.
Norton, Robert K., to Harris-Intertype Corp. Sheet handling cylinder. 3,044,771, 7–17–62, Cl. 271—53.
Norton, Robert O.: *See*—
Goemann, Richard P., and Norton. 3,019,987.
Norton, Ronald M., and P. J. Van Der Walt, to Nortons-Tividale Ltd. Heavy media process and apparatus. 3,023,-903, 3–6–62, Cl. 209—172.5.
Norton, Russell R.: *See*—
Norton, Lois C. and R. R. 3,044,663.
Norton, Samuel H., to Thompson Ramo Wooldridge Inc. Method of making valve spring retainer locks. 3,041,715, 7–3–62, Cl. 29—417.
Norton, Samuel H., to Thompson Ramo Wooldridge Inc. Apparatus for making valve spring retainer locks. 3,042,100, 7–3–62, Cl. 153—64.
Norton, Samuel H., to Thompson Ramo Wooldridge Inc. Pump for an artificial heart. 3,048,165, 8–7–62, Cl. 128—1.
Norton Tool Co. Ltd.: *See*
Norton, Henry, H. V., L. B., and D. E. 3,033,170.
Norton, Henry, H. V., L. B., and D. E. 3,067,624.
Norton, William H., to Thermel Inc. Electric heater. 3,045,-098, 7–17–62, Cl. 219—19.
Nortons-Tividale Ltd.: *See*—
Norton, Ronald M., and Van Der Walt. 3,023,903.
Norvell, Edmund C., Jr. Liquid vaporizer. 3,069,092, 12–18–62, Cl. 239—133.
Norvell, George E. Reading, writing and drawing stand. 3,027,679, 4–3–62, Cl. 45—81.
Norwaik, Stanley, to Union Carbide Corp. Aqueous epoxy resin emulsions and coatings therefrom. 3,020,250, 2–6–62, Cl. 260—7.
Norwich, Alan: *See*—
Dewey, Rex W., and Norwich. 3,029,417.
Norwich Mfg. Co., Inc.: *See*—
St. Denny, Ralph B., and Brown. 3,059,920.
Norwich Pharmacal Co., The: *See*—
Ebetino, Frank F. 3,043,853.
Klein, George M. 3,041,334.
Paul, Mary F. 3,039,875.
Norwine, Andrew C.: *See*—
Davis, Kingsbury H., and Norwine. 3,024,321.

Norwood, Donald W. Device utilizing a light valve actuated by a light acceptance unit. 3,041,928, 7–3–62, Cl. 88—23.
Norwood, Donald W. Light valve structure. 3,041,929, 7–3–62, Cl. 88—23.
Norwood, Hershel J. Feeder. 3,067,723, 12–11–62, Cl. 119—58.
Norwood, John W., to Kimwood Machine Co. Fluid pressure cylinder. 3,033,169, 5–8–62, Cl. 121—38.
Norwood, John W., to Kimwood Machine Co. Piston and piston rod connection. 3,036,873, 5–29–62, Cl. 309—17.
Noschese, Rocco J., to Burndy Corp. Shielded wire connector. 3,034,090, 5–8–62, Cl. 339—61.
Noser, Renato, and F. Felber, to Aktiengesellschaft Brown, Boveri & Cie. Electrical control arrangement operating with voltage-comparison. 3,030,567, 4–17–62, Cl. 322—25.
Noseworthy, Melvin M.: *See*—
Gordon, Philip N., Stephens, Noseworthy, and Teare. 3,017,325.
Noseworthy, Melvin M., and A. J. Spiegel, to Chas. Pfizer & Co., Inc. Thioglycerol and formaldehyde sulfoxylate stabilized tetracycline antibiotics in polyhydric alcohol solvents. 3,026,248, 3–20–62, Cl. 167—65.
Noska, Leslie S.: *See*—
McKinney, William W., Hasty, and Noska. 3,055,370.
Nosler, John A., to Nosler Partition Bullet. Bullet making. 3,069,748, 12–25–62, Cl. 29—1.23.
Nosler Partition Bullet: *See*—
Nosler, John A. 3,069,748.
Nossen, Edward J.: *See*—
Glazer, Burton G., and Nossen. 3,068,405.
Nossiter, Alfred: *See*—
Barnard, Dennis A., and Nossiter. 3,047,915.
Nostrand, Elbert D.: *See*—
Michaels, Adlai E., Nostrand, and Tutwiler. 3,058,818.
Notarbartolo, Emilio: *See*—
Muench, Werner, Notarbartolo, and Messina. 3,017,394.
Muench, Werner, Notarbartolo, and Silvestri. 3,022,291.
Notbohm, Willard C., to Valley Iron Works Co. Nozzle blade tip. 3,034,578, 5–15–62, Cl. 162—347.
Notley, Norman T., to E. I. du Pont de Nemours and Co. Photopolymerizable compositions and elements. 3,036,915, 5–29–62, Cl. 96—84.
Notley, Norman T., to E. I. du Pont de Nemours and Co. Polymerizable elements. 3,036,916, 5–29–62, Cl. 96—84.
Nott, James F. Coupled pipe sections having axial movement without misalignment thereof. 3,058,763, 10–16–62, Cl. 285—368.
Nottage, Walter. Heated tools. 3,053,311, 9–11–62, Cl. 158—13.6.
Nottebohm, Carl-Ludwig: *See*—
Fahrbach, Erich, Lauppe, Schabert, Heling, and Nottebohm. 3,069,305.
Nottebohm, Carl-Ludwig, R. Schabert, and A. Burk, to Carl Freudenberg, Kommanditgesellschaft aug Aktien, Firma. Producing gas-filter mat. 3,035,943, 5–22–62, Cl. 117—140.
Notter, George K.: *See*—
Hendel, Carl E., Notter, and Reeve. 3,031,314.
Hendel, Carl E., Reeve, and Notter. 3,054,683.
Notter, Herbert. Metering mechanism for a filling station. 3,038,638, 6–12–62, Cl. 222—26.
Nottes, Guenther, and H. Cordes, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Refining of industrial hydrocarbon mixtures. 3,053,756, 9–11–62, Cl. 208—189.
Nottingham, J. B., & Co., Inc.: *See*—
Van Noy, Lawrence R., and Craig. 3,047,704.
Notzl, Joachim: *See*—
Baur, Carl, Burger, and Notzl. 3,070,389.
Notzold, Erich: *See*—
Müschenborn, Walter, and Nötzold. 3,026,252.
Müschenborn, Walter, and Nötzold. 3,045,818.
Müschenborn, Walter, Notzold, and Schinzel. 3,027,306.
Nouvelle d'Electronique, Societe: *See*—
Jacquet, Jacques N., and Henry. 3,045,157.
Schmierer, Livia C., and Valin. 3,058,658.
Novacel: *See*—
Lachiche, Julien. 3,060,514.
Thomas, Ivan, and Lachiche. 3,060,504.
Novak Charles, J. A. Meadows, J. P. Origer, Jr., and J. K. Robideaux. Engine exhaust gas purifier. 3,032,968, 5–8–62, Cl. 60—30.
Novak, George J., to Western Electric Co., Inc. Device for stripping a part from an article to which it is attached. 3,050,833, 8–28–62, Cl. 29—203.
Novak, Izador J., to Raybestos-Manhattan, Inc. Refinement of asbestos. 3,035,698, 5–22–62, Cl. 209—235.
Novak, Izador J., to Raybestos-Manhattan, Inc. Method of making reinforced plastics. 3,062,697, 11–6–62, Cl. 156—178.
Novak, Izador J., to Raybestos-Manhattan, Inc. Production of asbestos slurries. 3,062,701, 11–6–62, Cl. 162—145.
Novak, John V., and M. B. Hall, to Acme Steel Co. Strap sealing tool. 3,034,384, 5–15–62, Cl. 81—9.1.
Novak, Leo J., to Central Pharmacal Co. Carboxy methyl benzyl dextran dextro-amphetamine. 3,063,905, 11–13–62, Cl. 167—82.
Novak, Leo J., to The Commonwealth Engineering Co. of Ohio. Cigarette paper products comprising water insoluble dextran. 3,070,486, 12–25–62, Cl. 162—139.
Novak, Leo J., to The Commonwealth Engineering Co. of Ohio. Fibrous webs, including paper, formed from water insoluble dextran fibers. 3,070,487, 12–25–62, Cl. 162—139.
Novak, Leo J., and J. G. McCallum, to The Commonwealth Engineering Co. of Ohio. Metallized fibers for decreasing curing time of plastic glass fiber mixtures. 3,043,796, 7–10–62, Cl. 260—37.
Novak, Robert W.: *See*—
Meissner, William A., and Novak. 3,053,291.
Novak, Stanley P. Guard for power mowers. 3,043,077, 7–10–62, Cl. 56—255.
Novak, Stanley P. Aircraft safety device. 3,051,420, 8–28–62, Cl. 244—139.
Novak, Warren D., to United States of America, Air Force. Radio energy measuring device. 3,040,252, 6–19–62, Cl. 324—95.
Novak, Warren D., to General Precision, Inc. File card viewing system. 3,055,131, 9–25–62, Cl. 40—36.
Novak, Warren D., and R. L. Garman, to General Precision, Inc. Subscription television use recording system. 3,051,-775, 8–28–62, Cl. 178—5.1.
Novak, William R., to Protexall Face Mask Co. Face guard for football players. Re. 25,176, 5–29–62, Cl. 2—9.
Novarino, Giacomo C. Lock for doors, with a handle disengageable from the control member. 3,024,055, 3–6–62, Cl. 292—169.
Novelli, Alberto, and P. Buggiani. Automatic exhaust valve for underwater respiration apparatus. 3,062,207, 11–6–62, Cl. 128—142.
Novello, Frederick C.: *See*—
Jones, William H., and Novello. 3,025,292.
Novello, Frederick C., to Merck & Co., Inc. Halo-disulfamylanilines. 3,019,245, 1–30–62, Cl. 260—397.7.
Novello, Frederick C., to Merck & Co., Inc. Disulfamylbenzoic acids. 3,050,553, 8–21–62, Cl. 260—515.
Novello, Frederick C., to Merck & Co., Inc. 2,4-disulfamyl-5-substituted anilines. 3,060,206, 10–23–62, Cl. 260—397.7.
Novello, Frederick C., to Merck & Co., Inc. Novel 5-substituted-6-sulfamyl phthalimides. 3,064,006, 11–13–62, Cl. 260—326.
Novello, Frederick C., to Merck & Co., Inc. Novel disulfamyl-N-carboxy acylanilines. 3,066,157, 11–27–62, Cl. 260—397.7.
Novelty Cutter Works, Inc.: *See*—
Halstead, Harold A., H. A. Halstead, Jr., and R. E. Halstead. 3,015,515.
Novelty Tool Co., Inc.: *See*—
Albrecht, Clifford C. 3,026,520.
Novenber, Gerald S., and F. Schute, to United States of America, Atomic Energy Commission. Flowmeter. 3,021,-708, 2–20–62, Cl. 73—194.
Novi Equipment Co.: *See*—
Millington, Alfred F., and Hebert. 3,036,679.
Welch, Lewis W., and Millington. 3,018,711.
Novick, Abraham, to F. L. Smith Machine Co., Inc. Protector associated with the gumming mechanism of paper converting machines or the like. 3,019,761, 2–6–62, Cl. 118—70.
Novick, Abraham, to F. L. Smith Machine Co., Inc. Web fed envelope machine. 3,056,322, 10–2–62, Cl. 83—301.
Novkov, Raymond E., to Manchester Machine & Tool Co. Face mill cutter. 3,036,363, 5–29–62, Cl. 29—105.
Novo Industrial Corp.: *See*—
De Chelbor, William J. 3,045,862.
De Chelbor, William J. 3,045,863.
De Chelbor, William J. 3,055,531.
Dunnous, Jack. 3,063,726.
Jakobs, Hans. 3,024,912.
Koch, Charles H., Jr., and Binne. 3,039,838.
Newburg, Charles F. 3,049,235.
Schneider, Marvin. 3,070,126.
Spicer, John J., Jr. 3,028,926.
Novo Terapeutisk Laboratorium A/S: *See*—
Jacobsen, Hans. 3,016,330.
Novoflex Fotogeratebau Karl Muller: *See*—
Kellner, Ferdinand. 3,045,550.
Novotny, Frank A.: *See*—
Mathers, Robert V., and Novotney. 3,065,869.
Novotney, Frank A. Toy. 3,018,583, 1–30–62, Cl. 46—11.
Novotney, Frank A., to Anthony Co. Anti-bounce lock. 3,065,868, 11–27–62, Cl. 214—77.
Novy, Louis E.: *See*—
Bennett, Bailey, Novy, and Simko. 3,057,750.
Novy, Raymond F.: *See*—
Ott, John Ekern, Koza, and Novy. 3,027,788.
Novy, Virgil F., and C. G. Kirkpatrick, to Nuclear Corp. of America, Inc. Passivation of reactive metal surfaces. 3,038,824, 6–12–62, Cl. 148—6.14.
Nowack, Rudolf, to Westinghouse-Bremsen-Gesellschaft, m.b.H. Overload safety control apparatus for cranes. 3,035,712, 5–22–62, Cl. 212—39.
Nowak, Edward F.: *See*—
Jaeger, Jacob J., Kirkham, and Nowak. 3,068,386.
Nowak, Herman P., to Raytheon Co. Vibratory sorting apparatus. 3,042,200, 7–3–62, Cl. 209—99.
Nowak, John S., and W. Ulrich, to Bell Telephone Laboratories, Inc. Standby transfer control circuitry. 3,060,273, 10–23–62, Cl. 179—27.
Nowak, Leon J., Jr., to B. F. Gump Co. Distributing supply feeder. 3,065,842, 11–27–62, Cl. 198—128.
Nowak, Martin E. Brake mechanism. 3,029,905, 4–17–62, Cl. 188—111.
Nowak, Rudolf, to United States Steel Corp. Method for recovery of pure ammonia from coke-oven gases. 3,056,657, 10–2–62, Cl. 23—196.

Nowakowski, Albert J., to The Still Fish Reel Co. Fishing line reservoir. 3,015,183, 1–2–62, Cl. 43—20.

Nowell, Harry : *See*—
Thompson, William, and Nowell. 3,020,474.

Nowell, Richard A. Support for curtains and the like. 3,064 724, 11–20–62, Cl. 160—330.

Nowicki, Henry F., and H. J. Smiley, to James Lees and Sons Co. Reinforced pile fabric. 3,034,541, 5–15–62, Cl. 139—402.

Nowicki, Joseph M., to Fairgrieve & Son, Ltd. Lint filter for washing machine. 3,027,742, 4–3–62, Cl. 68—18.

Nowlan, Michael J., to Radio Corp. of America. Resonant circuitry for a transducer head. 3,020,357, 2–6–62, Cl. 179—100.2.

Nowlan, Michael J., to Radio Corp. of America. Magnetic recording and reproducing apparatus. 3,037,093, 5–29–62, Cl. 179—100.2.

Nowlan, Michael J., to Radio Corp. of America. Magnetic recording and reproducing apparatus. 3,068,326, 12–11–62, Cl. 179—100.2.

Nowlin, Anne C. : *See*—
Moriarty, John H., and Nowlin. 3,060,031.

Nowlin, Aubrey C. Sewage grinding device. 3,049,306, 8–14–62, Cl. 241—46.

Nowlin, Gene, and H. D. Lyons, to Phillips Petroleum Co. Polymerization of vinyl ethers. 3,023,198, 2–27–62, Cl. 260—88.1.

Nowlin, Gene, and H. D. Lyons, to Phillips Petroleum Co. Low pressure process for production of olefin polymers with a peroxide containing catalyst. 3,024,227, 3–6–62, Cl. 260—94.9.

Nowotny, William H. : *See*—
Turner, Roscoe E., and Nowotny. 3,062,590.

Noyes, William R., and E. W. Eagleson, to United States of America, Navy. Bore riders for launching of projectiles. 3,038,382, 6–12–62, Cl. 89—1.7.

Noyori, Kimiharu, to Yasuyuki Sata. Portable oculi fundus camera. 3,016,000, 1–9–62, Cl. 95—12.

Nozaki, Kenzie : *See*—
Van Ameronzen, Gerrit J., and Nozaki. 3,068,180.

Nozaki, Kenzie, to Shell Oil Co. Process for preparing segmented copolymers. 3,069,380, 12–18–62, Cl. 260—45.5

Nozaki, Kenzie, to Shell Oil Co. Process for preparing segmented copolymers. 3,069,381, 12–18–62, Cl. 260—45.5.

Nozette, Morris : *See*—
Svoboda, George, Jacobsen, and Nozette. 3,061,137.

Nozoe, Shigeo : *See*—
Tsuda, Kyosuke, Oki, Nozoe, and Okada. 3,040,036.
Tsuda, Kyosuke, Oki, Nozoe, and Okada. 3,040,037.

Nu Industries, Inc. : *See*—
Geipel, Harvey A. 3,053,328.

Nuarc Co., The : *See*—
Benson, Harold R. 3,043,204.

Nubel, Robert C., and E. J. Ratajak, to Chas. Pfizer & Co., Inc. Process for producing itaconic acid. 3,044,941, 7–17–62, Cl. 195—36.

Nuber, John H. : *See*—
Kearney, Thomas J., and Nuber. 3,029,929.

Nubson, Edward L. : *See*—
Munson, Donald J., and Nubson. 3,018,574.

Nuckolls, Donald E. : *See*—
Stoddard, Stephen D., Nuckolls, and Cowan. 3,052,532.

Nuclear-Chicago Corp. : *See*—
Fox, Stewart A. 3,029,358.

Nuclear Corp. of America, Inc. : *See*—
Betzold, Edward J., Jr., and Crow. 3,025,404.
Muir, Hubert M. 3,067,320.
Novy, Virgil E., and Kirkpatrick. 3,038,824.
Selar, Nathan. 3,050,684.
Selar, Nathan. 3,062,959.
Waller, Milton M. 3,064,440.
Waller, Milton M., and Selar. 3,041,427.
Wolf, Robert Y. 3,032,661.

Nuclear Products Co. : *See*—
Callanan, Francis J., and Gallagher. 3,070,117.

Nu-Dent Porcelain Studio Inc. : *See*—
Gold, Nat. 3.057.078.

Nuding, James M. Gas purifying arrangement. 3,019,780, 2–6–62, Cl. 123—119.

Nuernberger, Eldon L. : *See*—
Williams, William A., and Nuernberger. 3,015,965.

Nuernberger, Howard H., to Aluminum Co. of America. Corrugated sheathing systems. 3,038,573, 6–12–62, Cl. 189—88.

Nuessle, Albert C., and E. H. Kroeker, to Rohm & Haas Co. Coated fibrous products, compositions and methods for making them. 3,025,181, 3–13–62, Cl. 117—76.

Nuffer, Orville P., to Baxter Laboratories, Inc. Intravenous administration equipment. 3,022,784, 2–27–62, Cl. 128—214.

Nuffer, Orville P., to Don Baxter, Inc. Receptacle with closure having a retractable spout. 3,057,520, 10–9–62, Cl. 222—209.

Nugent, Corliss D. Liquid filter. 3,058,592, 10–16–62, Cl. 210—232.

Nugent, John I., to Ritter Co., Inc. Dental waste disposal system. 3,051,175, 8–28–62, Cl. 128—276.

Nugent, Walter S. Sitting furniture. 3,019,051, 1–30–62, Cl. 297—218.

Nugey, Anthony L. Method of stabilizing foam on malt beverages. 3,052,548, 9–4–62, Cl. 99—48.

Nugey, Anthony L. Method of fireproofing gasolines. 3,056,741, 10–2–62, Cl. 208—370.

Nuissl, Carl W. Device for cleaning vessels. 3,068,829, 12–18–62, Cl. 114—222.

Nulick, Harry J., to Penhurst Machine Co. Connector plate having tapered teeth. 3,068,738, 12–18–62, Cl. 85—13.

Null, Fay E. : *See*—
Kern, Werner K., and Null. 3,031,933.

Numata, Yehan : *See*—
Yamamoto, Tamotsu. 3,060,586.

Nu-Matic Nailer International Corp. : *See*—
Swanson, Allan C. 3,067,423.

Numerof, Paul, and J. Knoll, to Olin Mathieson Chemical Corp. Radioactive iodinated (I^{131}) fatty material admixed with wax-like material in capsule. 3,061,510, 10–30–62, Cl. 167—51.

Nummela, Walter : *See*—
Erck, Louis J., and Nummela. 3,067,957.

Nunn, Ewing D., to Northern Signal Co., Inc. Combined barricade and flashing signal light. 3,015,804, 1–2–62, Cl. 340—81.

Nunn, Leslie G., Jr. : *See*—
Schneck, Leslie M., and Nunn. 3,061,552.

Nunn, Leslie G., Jr., and R. C. Wilson, to General Aniline & Film Corp. Sulfinosphate ester compositions. 3,061,506, 10–30–62, Cl. 167—17.

Nunn, Robert N. Water line freezing device. 3,041,850, 7–3–62, Cl. 62—293.

Nunn, Roland C., and H. M. Brewster, to Esso Research and Engineering Co. Lubricating oil composition. 3,065,178, 11–20–62 Cl. 252—33.4.

Nuquip Ltd. : *See*—
Lawrence, Ronald T. 3,068,885.

Nurnberger Schwachstrombauelemente Fabrik Gesellschaft mit beschrankter Haftung : *See*—
Meyer, Herbert. 3,045,060.
Meyer, Herbert, and Reckstadt. 3,036,212.

Nurse, Michael J. D., to Pye Ltd. Television circuits. 3,053,933, 9–11–62, Cl. 178—7.3.

Nury, Massud S. : *See*—
Riddel, Alexander L., and Nury. 3,052,546.

Nusbaum, Harold R. Reel. 3,063,679, 11–13–62, Cl. 254—185.

Nuss, Christopher : *See*—
Farrell, Robert E., and Nuss. 3,059,580.

Nuss, Oscar, II, to De Walt, Inc. Cycled jet cooling mechanism. 3,022,694, 2–27–62, Cl. 83—169.

Nussbaum, Alexander L., to Schering Corp. Oximino steroidal derivatives and process for their manufacture. 3,045,011, 7–17–62, Cl. 260—239.55.

Nu-Swift Ltd. : *See*—
Cawood, Eric E. C. 3,063,940.

Nutkins, Derek J., and C. B. Packard, to The Kaman Aircraft Corp. Aerial device having rotor for retarding descent. 3,057,589, 10–9–62, Cl. 244—138.

Nutone, Inc. : *See*—
McEvoy, Joseph. 3,038,440.
Spear, Walter A. 3,026,788.

Nutt, Evan B., Jr. : *See*—
Harker, Thomas B., and Nutt. 3,017,086.

Nuttall, Clifford J., Jr., H. M. Blank, and H. Kummen, to Wilson, Nuttall, Raimond Engineers Inc. Articulated tracked vehicles. 3,035,654, 5–22–62 Cl. 180—14.

Nuttall, Thomas C., to Bush and Rank Cintel Ltd. Film transport mechanism. 3,049,275, 8–14–62, Cl. 226—63.

Nutten, Warren D., and B. C. Phillips, to The Tillotson Mfg. Co. Fuel feeding means. 3,045,605, 7–24–62, Cl. 103—150.

Nutter, Benjamin P., to Johnston Testers, Inc. Well packer. 3,019,842, 2–6–62 Cl. 166—126.

Nutter, Benjamin P., to Johnston Testers, Inc. Well packers. 3,020,956, 2–13–62, Cl. 166—134.

Nutter, Benjamin P., to Johnston Testers, Inc. Multiple purpose well tools. 3,065,796, 11–27–62, Cl. 166—226.

Nutter, Benjamin P., and P. H. Griffin, III, to Johnston Testers, Inc. Adjustable anchors. 3,036,641, 5–29–62, Cl. 166—243.

Nutter, Ervin F. : *See*—
Lundgren, Carl W., and Nutter. 3,028,283.

Nutting, Lee, R. M. Silverstein, and C. M. Himel, to Hills Bros. Coffee, Inc. Condensed ring heterocyclic disulfides and sulfides. 3,033,875, 5–8–62, Cl. 260—319.

Nutting, Lee, R. M. Silverstein, and C. M. Himel, to Hills Bros. Coffee, Inc. Heterocyclic mercaptan compounds. 3,041,551, 6–26–62, Cl. 260—330.5.

Nutting Truck and Caster Co : *See*—
Bauman, Henry J. 3,042,384.

Nützel, Karl : *See*—
Lang, Konrad, Bürger, Horn, and Nützel. 3,061,627.
Stroh, Rudolf, and Nützel. 3,048,571.

Nyberg, Carl E. J. Fluid coupling. 3,052,261, 9–4–62, Cl. 284—19.

Nyberg, Curt E. : *See*—
Semler, Loren H., and Nyberg. 3,015,161.

Nyberg, George J., to Riley Stoker Corp. Observation window. 3 043,250, 7–10–62, Cl. 110—179.

Nyberg, James J. : *See*—
Dillingham, Edward, and Nyberg. 3,050,640.

Nyberg, James J., to Thompson Ramo Wooldridge Inc. Superconductive switching elements. 3,048,707, 8–7–62, Cl. 307—88.5.

Nyberg, James J., to Thompson Ramo Wooldridge Inc. Heat-responsive superconductive devices. 3,056,889, 10–2–62, Cl. 307—88.5.

Nyberg, James J., to Thompson Ramo Wooldridge, Inc. Superconductive electrical circuits for storage and read out. 3,060,323, 10–23–62, Cl. 307—88.5.

Nyberg, Richard A. : *See*—
Sheridan, Thomas L., and Nyberg. 3,023,375.

Nyberg, Sven. Fish lure. 3,068,604, 12–18–62, Cl. 43—42.5.

Nyberg, Wilbur C. : *See*—
Davis, Benjamin L., and Nyberg. 3,019,150.

Nyborg, Meredith M. Butt welder. 3,026,403, 3–20–62, Cl. 219—57.

Nyborg, Meredith M. Soldering apparatus. 3,068,823, 12–18–62, Cl. 113—59.

Nyborg, Ralph A. Heat sealing apparatus. 3,059,690, 10–23–62, Cl. 156—498.

Nyby Bruks Aktiebolag : *See*—
Andersson, Bengt I. 3,055,812.

Nyce, Jack L. : *See*—
Gladding, Edward K., and Nyce. 3,063,973.

Nydam, John L., to Whitin Machine Works. Fleece fiber movement control mechanism. 3,061,891, 11–6–62, Cl. 19—231.

Nyden, Robert, to Waterbury Companies, Inc. Dispensing closures. 3,035,744, 5–22–62, Cl. 222—493.

Nye, Bradley H., and R. Y. Paradise, to Robertshaw-Fulton Controls Co. Force to direct current transducer. 3,048,770, 8–7–62, Cl. 323—64.

Nye, Dudley D., Jr., to Airpax Electronics Inc. Voltage compensation. 3,021,480, 2–13–62, Cl. 324—78.

Nye, Maurice A., to The Vaughn Machinery Co. Wire takeup block. 3,049,315, 8–14–62, Cl. 242—82.

Nye, Maurice A., to The Vaughn Machinery Co. Wire packaging machine. 3,054,570, 9–18–62, Cl. 242—83.

Nye, Maurice A., and J. C. Bittman, to The Vaughn Machinery Co. Liquid and vapor cooling of wire drawblock. 3,064,798, 11–20–62, Cl. 205—20.

Nye, Maurice A., J. C. Bittman, and G. Trowbridge, to The Vaughn Machinery Co. Wire drawing machine and method. 3,064,919, 11–20–62, Cl. 242—82.

Nye, Norman H., to Pen-Mac-Nye Co. Punch mechanism for perforating fa. 3,069,713, 12–19–62, Cl. 242—56.8.

Nye, Norman H., and A. T. Medkeff, to Nicholas and Cosma Creme. Apparatus for making elongated plastic articles. 3,060,499, 10–30–62, Cl. 18—4.

Nye, Ralph A. Sectional formed combustion power chamber for varying driving impulses for jet motors. 3,021,669, 2–20–62, Cl. 60—35.6.

Nye, William M., ½ to J. A. Fraser. Dictating machine erasure unit. 3,024,320, 3–6–62, Cl. 179—100.2.

Nyerges, Jules, and D. Nagy. Cigarette dispenser. 3,061,146, 10–30–62, Cl. 221—246.

Nygaard, James L. : *See*—
Bickel, Richard L., Brooke, Day, McDonald, Millis, and Nygaard. 3,039,604.

Nygaard, James L., to Texas Instruments Inc. Antenna coupling circuit. 3,018,373, 1–23–62, Cl. 250—20.

Nygaard, James L., and R. R. Webster, to Texas Instruments Inc. Automatic gain control system. 3,022,421, 2–20–62, Cl. 250—20.

Nygard, John C., to High Voltage Engineering Corp. Multiphase transformer. 3,067,374, 12–4–62, Cl. 321—8.

Nygran Industries Ltd. : *See*—
Granberg, Fof. 3,038,355.

Nyholm, Bengt V., to Atlas Copco Aktiebolag. Internal combustion percussion tools and hammer pistons for such tools. 3,056,390, 10–2–62, Cl. 123—7.

Nyholm, Ronald S., to Ethyl Corp. Organophosphorus, arsenic, antimony derivves of manganese carbonyl compounds. 3,037,037, 5–29–62, Cl. 260—429.

Ny-Lint Tool & Mfg. Co. : *See*—
Klint, Bernard C. 3,048,447.

Nylonge Corp. : *See*—
Kendall, William L. 3,036,459.
Shockley, Alvin, and Teng. 3,048,888.

Nyman, Curt E., to North American Philips Co., Inc. Method for coating the inner wall of a tube intended for electric discharge lamps with a uniform liquid layer as well as an arrangement for the application of the method. 3,046,157, 7–24–62, Cl. 117—97.

Nyman, Hugo, to Sargent Engineering Corp. Regulating valve. 3,024,732, 3–13–62, Cl. 103—42.

Nyman, Karl-Erik : *See*—
Sökler-Petersen, Gunnar H., Johansson, and Nyman. 3,002,045.

Nyquist, Arthur S. : *See*—
Kropa, Edward L., and Nyquist. 3,016,281.

Nyquist, Nels H. Door hinge. 3,038,196, 6–12–62, Cl. 16—164.

Nysco Laboratories, Inc. : *See*—
Goldman, Robert. 3,054,723.
Smedresman, Max. 3,015,611.

Nyselius, Gustav. Means for controlling the speed of a charging plunger in a die casting machine. 3,020,607, 2–13–62, Cl. 22—68.

Nysted, Leonard N., to G. D. Searle & Co. 20(*β*)-[(monoalkylamino)methyl]-pregn-5-en-3*β*-ols, esters corresponding and intermediates thereto. 3,038,912, 6–12–62, Cl. 260—397.1.

Nystrand, Ernst D., to Paper Converting Machine Co., Inc. Cylinder support and moving means printing mechanism. 3,041,967, 7–3–62 Cl. 101—182.

Nystrand, Ernst D., and R. E. Small, to Paper Converting Machine Co., Inc. Printing press. 3,063,367, 11–13–62, Cl. 101—152.

Nystrom, Carl M., to United States Steel Corp. Method and apparatus for annealing coils of strip metal. 3,037,889, 6–5–62, Cl. 148—13.1.

Nytronics, Inc. : *See*—
Goldsmith, Bernard M. 3,024,433.

O.K. Rubber Welders, Inc. : *See*—
French, Elby. 3,039,144.

O.K. Tool Co., Inc. The : *See*—
Hussey, Forrest A. 3,057,043.
Payne, Oscar V. 3,027,624.
Williams, Thurston V. 3,058,198.
Williams, Thurston V. 3,069,937.

Oak Mfg. Co. : *See*—
Azelickis, Alexis, Lanford, and Osborn. 3,024,423.
Caprelle, Norman D., and Kornacker. 3,065,642.
Cappelle, Norman D., and Kornacker. 3,069,639.
Fichter, Ludwig J. 3,015,706.
Fichter, Ludwig J. 3,056,001.
Probasco, Harold T. 3,064,789.
Williams, John H. 3,020,375.

Oak Mfg. Co., Inc. : *See*—
Probasco, Harold T. 3,018,148.

Oakes, Billy D. : *See*—
Eberhard, John F., and Oakes. 3,037,934.
Monroe, Roger F., Lowes, Foster, and Oakes. 3,049,496.

Oakes, Billy D., to The Dow Chemical Co. Corrosion inhibitor composition. 3,017,355, 1–16–62, Cl. 252—8.55.

Oakes, Billy D., to The Dow Chemical Co. Mineral acid inhibitors. 3,030,311, 4–17–62, Cl. 252—147.

Oakes, Billy D., to The Dow Chemical Co. Mineral acid inhibitor. 3,047,511, 7–31–62, Cl. 252—146.

Oakes, David T. : *See*—
Johnson, William R., and Oakes. 3,070,544.

Oakes, E. T., Corp., The : *See*—
Baker, Donald E. 3,041,176.
Oakes, Earle T., Doom, McElligott, and Sundheim. 3,066,707.

Oakes, Earle T., L. G. Doom, P. A. McElligott, and P. E. Sundheim, to The E. T. Oakes Corp. Dispensing device for fluids and semi-fluids. 3,066,707, 12–4–62, Cl. 141—129.

Oakes, Edwin C. Individual portable table. 3,032,916, 5–8–62, Cl. 45—61.

Oakes, Marvin E. : *See*—
Burch, Jack E., Oakes, and Racely. 3,064,289.

Oakes, Phillip N., and R. N. Wilkes, to General Electric Co. Semiconductor device. 3,021,461, 2–13–62 Cl. 317—235.

Oakes, Wayne W., to Pittsburgh Plate Glass Co. Universal vacuum cup. 3,063,746, 11–13–62, Cl. 294—64.

Oakes, William E. Drill collar handling sub. 3,015,512, 1–2–62, Cl. 294—1.

Oakey, William E. : *See*—
Brown, Robinson W., and Oakey. 3,056,294.

Oakland Corp., The : *See*—
Wallace, Richard B. 3,025,340.
Wallace, Richard B., and Ebbert. 3,020,570.

Oakley, Gilbert F., to MacLean-Fogg Lock Nut Co. Combined lading strap anchor and floor rack holder. 3,018,740, 1–30–62, Cl. 105—369.

Oakley, Gilbert F., to MacLean-Fogg Lock Nut Co. Combined lading strap anchor and floor rack holder. 3,018,995, 1–30–62, Cl. 105—294.

Oakley, Gilbert F., to MacLean-Fogg Lock Nut Co. Lading strap anchor. 3,021,709, 2–20–62, Cl. 105—369.

Oakley, Gilbert F., to MacLean-Fogg Lock Nut Co. Floor clips. 3,026,821, 3–27–62, Cl. 105—422.

Oakley, Gilbert F., to MacLean-Fogg Lock Nut Co. Nailable metal boor sections. 3,068,967, 12–18–62, Cl. 189—34.

Oakley, S. A., Inc. : *See*—
Oakley, Sterling A. 3,050,615.

Oakley, Sterling A. Tube cutting apparatus. 3,035,148, 5–15–62, Cl. 219—68.

Oakley, Sterling A. to S. A. Oakley, Inc. Tube welding method and apparatus. 3,050,615, 8–21–62, Cl. 219—60.

Oakley, Wilbur J. : *See*—
Kenzik, William V., and Oakley. 3,050,157.

Oaks, Clarence D. Leverage tool. 3,026,091, 3–20–62, Cl. 254—25.

Oates, Frank B. : *See*—
Kelley, Gilbert A., Rahm, and Oates. 3,067,468.

Oates, Ralph F. Door frame setting and holding means. 3,027,080, 4–3–62, Cl. 50—83.

Oates, William O., to Radio Corp. of America. Soldering apparatus and method. 3,039,185, 6–19–62, Cl. 29—503.

Obarski, Richard W., H. A. Trishman, and R. C. Seanor, to Adamson United Co. Tire, wheel and/or brake testing apparatus. 3,060,734, 10–30–62, Cl. 73—146.

Obear, Edward F. Cut off saw. 3,046,707, 7–31–62, Cl. 51—178.

Obenauf, Carl F., and C. W. Tatter. Lecithinated product. 3,060,030, 10–23–62. Cl. 99—15.

Obenchain, Richard F. : *See*—
Reinfeld, Kurt, and Obenchain. 3,025,047.

Obendorf, Werner, and P. Meindl, to Osterreichische Stickstoffwerke Aktiengesellschaft. Iodine-containing benzole acid amides and a process of making same. 3,042,715, 7–3–62, Cl. 260—518.

Obendorf, Werner H., to Osterreichische Stickstoffwerke Aktiengesellschaft. New iodine-containing aminobenzoic acid amides and a method of producing the same. 3,051,-745, 8–28–62, Cl. 260—518.

Obenshain, David N., to West Virginia Pulp and Paper Co. Wet web tensile tester. 3,015,230, 1–2–62, Cl. 73—89.

Obenshain, David N., to West Virginia Pulp and Paper Co. Jogging device. 3,062,539, 11–6–62, Cl. 271—89.

Oberacker, Robert: *See*—
Lander, Fred, Lattmann, and Oberacker. 3,020,801.

Oberbeck, Arthur W.: *See*—
Nelson, Willis N., and Oberbeck. 3,057,343.

Oberdorf, George S., ½ to A. H. Gonzales. Sound system for model railways. 3,061,973, 11–6–62, Cl. 46—232.

Oberdorfer, Paul E., Jr., and D. F. Rugen, to Sun Oil Co. Geobiochemical prospecting. 3,028,313, 4–3–62, Cl. 195—100.5.

Oberem, William C., to The Torrington Co. Integral offset bearing for latch of knitting needle. 3,022,651, 2–27–62, Cl. 66—122.

Oberfell, George G., to Phillips Petroleum Co. Shotgun shell. 3,026,801 3–27–62, Cl. 102—42.

Oberfell, George G., and R. G. Atkinson, to Phillips Petroleum Co. Expandable wads for shotgun shells. 3,053,185, 9–11–62, Cl. 102—95.

Oberhausen, Erich: *See*—
Roucayrol, Jean-Claude, Oberhausen, and Schussler. 3,017,510.

Oberholtz, Lester E., to Allis-Chalmers Mfg. Co. Conveyer chain. 3,048,049, 8–7–62, Cl. 74—248.

Oberley, William J.: *See*—
Goldstein, Irving S., and Oberley. 3,070,494.

Oberlin, Max, and H. Frey, to Ciba Corp. Deselenation of dehydrosteroids containing selenium. 3,048,604, 8–7–62, Cl. 260—397.4.

Oberpaul, Franz X., to Alweg-Forschung, Gesellschaft mit beschrankter Haftung. Vehicle running gear. 3,048,127, 8–7–62, Cl. 105—145.

Oberpriller, Jakob: *See*—
Karwat, Ernst, Weishaupt, and Oberpriller. 3,050,950.

O'Berry, William A., to United States of America Navy. Low level asymmetrical transistor chopper. 3,018,385, 1–23–62, Cl. 307—88.5.

Oberstar, Helen E., and A. Safianoff, to The Gillette Co. Applicator for hair treating liquid. 3,030,968, 4–24–62, Cl. 132—9.

Oberstein, Nathan L. Adjustable blind for television sets. 3,031,526, 4–24–62, Cl. 178—7.82.

Oberster, Arthur F., R. E. Beyler, and L. H. Sarett, to Merck & Co., Inc. Hydroethisterone compounds. 3,067,214, 12–4–62, Cl. 260—397.4.

Obert, Edward F., and J. A. Logan. Waste disposal method and means. 3,032,776, 5–8–62, Cl. 4—1.

Oberth, Adolf E.: *See*—
Chambers, Vaughan C., Jr., and Oberth. 3,026,203.

Oberth, Adolf E., and C. D. Shacklett, to E. I. du Pont de Nemours and Co. Gelatin-anion soap complex dispersion in polyvinyl alcohol photographic emulsions. 3,067,035, 12–4–62, Cl. 96—114.

Obey, James H.: *See*—
Beaber, Nathaniel J., and Obey. 3,043,826.

Obidniak, Louis. Adjustable liquid ejector nozzle. 3,066,875, 12–4–62, Cl. 239—417.

Obitts, Milton L. Wash kit for contact lenses and the like. 3,063,083, 11–13–62, Cl. 15—512.

Oblad, Sherman R.: *See*—
Hamer, Martin, and Oblad. 3,036,902.

Oblazmey, Joseph F. Multiplying spring motor. 3,047,094, 7–31–62 Cl. 185—9.

Oblinger, Edwin F.: *See*—
Parker, Richard W., and Oblinger. 3,035,848.

Oblinger, Edwin F., to Parker Sweeper Co. Sweeper with flexible hood extension at lower front. 3,022,530, 2–27–62, Cl. 15—79.

O'Boyle, Charles M.: *See*—
Phillips, Clifford F., and Stultz. 3,039,300.
Phillips, Clifford F., and Stultz. 3,041,711.
Stultz, Percy G., Jr. 3,050,858.

Obraske, Gerald W., to Modern Wall. Dry wall finishing tool. 3,069,713 12–25–62, Cl. 15—236.

O'Brian, Edward D.: *See*—
Akers, Edward G. 3,045,880.
Bourns, Marlan E., Boode, and O'Brian. 3,020,505.
Bourns, Marlan E., Boode, and O'Brian. 3,069,648.

O'Brian, Edward D. to Bourns, Inc. Adjustable electrical instruments. 3,069,647, 12–18–62, Cl. 338—180.

O'Brian, Frank: *See*—
Costello, Raymond F., and O'Brian. 3,068,802.

O'Brien, Angus J.: *See*—
Gwinn, Joseph M., Jr., O'Brien, and Shireman. 3,031,-779.

O'Brien, Charles J., and L. E. Waite, to General Motors Corp. Thermostatic valve structures. 3,048,338, 8–7–62, Cl. 236—34.

O'Brien, Charles S., to Bemis Bro. Bag Co. Bag. 3,048,325, 8–7–62, Cl. 229—66.

O'Brien, Edward D. Centrifugal coating apparatus. 3,017,854, 1–23–62, Cl. 118—303.

O'Brien, Edward D. Centrifugal coating apparatus. 3,033,-159, 5–8–62, Cl. 118—303.

O'Brien, Gregory: *See*—
O'Brien, Mary J. and G. 3,062,602.

O'Brien, Jeremiah W., and J. R. Adair, to United Engineering and Foundry Co. Apparatus for coiling metal strip. 3,062,-470, 11–6–62, Cl. 242—78.4.

O'Brien, John C., to Atlas Chemical Industries, Inc. Blasting assembly. 3,058,419, 10–16–62, Cl. 102—24.

O'Brien, John F., to United States Steel Corp. Container-tilting rigging. 3,047,916, 8–7–62, Cl. 22—82.

O'Brien, John J., to The Black and Decker Mfg. Co. Universal pipe cleaning tool for vacuum cleaners. 3,022,534, 2–27–62, Cl. 15—400.

O'Brien, Joseph L., to Rohm & Haas Co. Copolymers of hydroxyalkyl acrylates and methacrylates and alkyl acrylates and methacrylates reacted with diisocyanates. 3,028,-367, 4–3–62, Cl. 260—77.5.

O'Brien, Joseph L., and C. A. Lane, to Rohm & Haas Co. Dialkylaminoalkyl acrylate and methacrylate copolymers. 3,030,347, 4–17–62, Cl. 260—86.1.

O'Brien, Joseph L., and C. A. Lane, to Rohm & Haas Co Epoxydicyclopentyl alcohols and process for preparing same. 3,042,686, 7–3–62, Cl. 260—348.

O'Brien, Leo J., and R. R. Proctor, to The Pure Oil Co. Device to measure pressure changes at high absolute pressures. 3,064,479, 11–20–62, Cl. 73—407.

O'Brien, Lester J.: *See*—
Pilia, Frank J., and O'Brien. 3,065,330.

O'Brien, Loren J., to Dana Corp. Locking differential mechanism. 3,027,781, 4–3–62, Cl. 74—711.

O'Brien, Loren J., to Dana Corp. Frame type axle. 3,041,-890, 7–3–62. Cl. 74—607.

O'Brien, Loren J. Three piece tie rod assembly for steering driven wheels. 3,048,232, 8–7–62. Cl. 180—43.

O'Brien, Loren J., to Dana Corp. Locking differential. 3,055,-234, 9–25–62, Cl. 74—711.

O'Brien, Mary J. and G. Demountable tray assembly. 3,062,-602, 11–6–62, Cl. 311—26.

O'Brien, Michael, to The Regents of The University of California. Fruit bin sampler. 3,030,811, 4–24–62, Cl. 73—424.

O'Brien, Morrough: *See*—
Vorkoeper, Dwight, and O'Brien. 3,038,510.

O'Brien, Norman L. Top dressing treatment for soil. 3,067,-542, 12–11–62, Cl. 47—9.

O'Brien, Philip R., to General American Transportation Corp. Decorative wall covering. 3,054,223, 9–18–62, Cl. 50—268.

O'Brien, Richard C.: *See*—
Hooven, Frederick J., and O'Brien, Re. 25,128.

O'Brien, Richard C., to Harris-Intertype Corp. Photographic type composition. 3,017,811, 1–23–62, Cl. 95—4.5.

O'Brien, Richard C., to Harris-Intertype Corp. Photographic type composition. 3,059,219, 10–16–62, Cl. 340—149.

O'Brien, Richard J.: *See*—
Gratian, Joseph W., and O'Brien. 3,020 360.

O'Brien, Robert E. Detachable chain links having camming notches. 3,061,999, 11–6–62, Cl. 59—90.

O'Brien, Robert F., to Mission-West Mfg. Co. Toilet. 3,038,-169, 6–12–62, Cl. 4—79

O'Brien, Robert F., to Mission West-Mfg. Co. Toilet construction. 3,038,170, 6–12–62, Cl. 4—79.

O'Brien, Rory M., to Watton Engineering Co. Ltd. Measuring and gauging devices. 3,018,556, 1–30–62 Cl. 33—147.

O'Brien, Spotorno, Mitchell & Compagno Bros., Inc.: *See*—
Zolezzi, Walter M., and Brandt. 3,031,310.

O'Brien, William D., and C. E. Pollard, Jr., to Bell Telephone Laboratories, Inc. Liquid-contact switch. 3,054,873, 9–18–62, Cl. 200—112.

O'Brien, William H., to Leesona Corp. Winding machine. 3,045,935, 7–24–62. Cl. 242—18.1.

O'Brien, William H., and T. E. Pitts, to Leesona Corp. Bobbin holder. 3,045,946, 7–24–62, Cl. 242—130.

O'Brien, William J.: *See*—
Apelbaum, Joseph H., and O'Brien. 3,045,320.
Berg, William H., and O'Brien. 3,063,891.

O'Brien, William J., to General Motors Corp. Thermocouple lead attachment. 3,022,362, 2–20–62, Cl. 136—4.

O'Brien, William J., to General Motors Corp. Rate sensitive thermocouple. 3,022,669, 2–27–62, Cl. 73—359.

O'Brien, William J., and R. E. Downey, to The Seamless Rubber Co. Dipped plastic glove. 3,059,241, 10–23–62, Cl. 2—167.

Obrig Laboratories Inc.: *See*—
Salvatori, Philip L. 3,046,668.

O'Bryan, James V.: *See*—
Doctor, Bernard H., and O'Bryan. 3,015,950.

O'Brvant, Waitus A. Filter for heating and air conditioning ducts. 3,019,854, 2–6–62, Cl. 183—49.

Obst, Charles J., to J. J. Vastano. Aerosol valve. 3,018,929, 1–30–62, Cl. 222—394.

Obst, Charles J., to Flex-Let Corp. Linkage having detachable telescoping links. 3,038,296, 6–12–62, Cl. 59—79.

Obu, Misao: *See*—
Teshima, Seizo, Yonezaki, Nitto, and Obu. 3,027,269.

Oceanics, Inc.: *See*—
Marks, Wilbur. 3,066,279.

Ocean Spray Cranberries, Inc.: *See*—
Anderson, Edward E., and Anti. 3,023,108.

Ocello, Louis: *See*—
La Treel, Jack K. 3,052,479.

Ochi, Shigeru: *See*—
Evans, David C., and Ochi. 3,025,499.

Ochieano, Mario L.: *See*—
Ensrud, Alf F., Ochieano, and Steinbacher. 3,025,935.

Ochin, Zell, and L. P. Griser. Picture hanger. 3,020,013, 2–6–62, Cl. 248—28.
Ochs, John H., to Infilco Inc. Liquid treating process and apparatus. 3,038,608, 6–12–62, Cl. 210—84.
Ochs, Robert E., Jr., to Minneapolis-Honeywell Regulator Co. Pointer mechanism. 3,015,951, 1–9–62, Cl. 73—141.
Ochs, Stefan A., to Radio Corp. of America. Pickup tube target structure. 3,067,348, 12–4–62, Cl. 313—67.
Ochsner, John F.: *See*—
Stephenson, Verl J. 3,043,402.
Ochsner, Paul: *See*—
Verheyden, Albert, and Ochsner. 3,031,441.
Verheyden, Albert, and Ochsner. 3,065,219.
Ochterbeck, Berthold H.: *See*—
Shiplett, Lester D., and Ochterbeck. 3,018,134.
Ocnaschek, Frank J., to Collins Radio Co. Control system for earth moving machine. 3,058,242, 10–16–62, Cl. 37—144.
O'Connell, James A., and B. Narken, to International Business Machines Corp. Electro-optical device. 3,039,005, 6–12–62, Cl. 250—213.
O'Connell, John B., and R. E. Stahre; said Stahre assor. to said O'Connell. Hand powered rotary tool. 3,035,451, 5–22–62, Cl. 74—133.
O'Connell, John F. Vertically adjustable fence. 3,021,114, 2–13–62, Cl. 256—24.
O'Connell, John J.: *See*—
Mann, Leonard J., Armentrout, and O'Connell. 3,027,732.
Mann, Leonard J., and O'Connell. 3,018,637.
Mann, Leonard J., and O'Connell. 3,050,956.
Mann, Leonard J., and O'Connell. 3,050,961.
O'Connell, John J., to General Motors Corp. Controls for two-compartment refrigerator. 3,026,688, 3–27–62, Cl. 62—178.
O'Connell, John J., to General Motors Corp. Temperature controls for refrigerating apparatus. 3,043,114, 7–10–62, Cl. 62—209.
O'Connell, John J., to Kelco Co. Edible compositions comprising oil-in-water emulsions. 3,067,038, 12–4–62, Cl. 99—144.
O'Connell, Paul R.: *See*—
Dietz, Max M., and O'Connell. 3,015,426.
O'Connell, Richard A.: *See*—
Pardo, Clay E., Jr., and O'Connell. 3,019,076.
O'Connell, Robert F.: *See*—
Poorman, Richard M., Haettinger, and O'Connell. 3,066,222.
O'Connor, A. Louis, Jr., and J. H. O'Connor, to Elliott & Evans, Inc. Wave-actuated signal. 3,038,151, 6–5–62, Cl. 340—261.
O'Connor, Bernard E., to Clemco Aero Products. Sealed rotary actuator. 3,023,741, 3–6–62, Cl. 121—99.
O'Connor, Bernard J.: *See*—
Laucks, Howard H., O'Connor, and Cuny. 3,052,252.
O'Connor, Buell: *See*—
Ridgway, John A., Jr., and O'Connor. 3,020,241.
O'Connor, Daniel G.: *See*—
Jurgens, Henry A., Rex, and O'Connor. 3,034,644.
O'Connor, Daniel G., and R. J. Nelson, to General Precision, Inc. Sorting system with N-line sorting switch. 3,029,413, 4–10–62, Cl. 340—172.5.
O'Connor, Donald J. Paint applying apparatus. 3,020,579, 2–13–62, Cl. 15—553.
O'Connor, Francis M.: *See*—
Dunham, Milton L., Jr., and O'Connor. 3,036,980.
O'Connor, Francis M., to Union Carbide Corp. Zeolite and curing accelerator, chloroprene polymer composition containing same and process of curing. 3,036,983, 5–29–62, Cl. 260—41.5.
O'Connor, Francis M., and T. L. Thomas, to Union Carbide Corp. Zeolite and curing accelerator, chloroprene polymer composition containing same, and process of curing. 3,036,984, 5–29–62, Cl. 260—41.5.
O'Connor, Francis M., and T. L. Thomas, to Union Carbide Corp. Accelerator for the phenolic resin-cure of butyl rubber, butyl rubber formulation containing same, and process for curing butyl rubber therewith. 3,036,986, 5–29–62, Cl. 260—43.
O'Connor, Frank, and E. A. Daubman, to Ametek, Inc. Centrifugal separators. 3,038,611, 6–12–62, Cl. 210—138.
O'Connor, John J.: *See*—
Edgemond, John W., Jr., and O'Connor. 3,021,881.
O'Connor, Joseph H.: *See*—
O'Connor, A. Louis, Jr., and J. H. O'Connor. 3,038,151.
O'Connor, Ralph J.: *See*—
Fasold, George A., and O'Connor. 3,066,793.
O'Connor, Theodore D., to U.S. Electrical Motors, Inc. Mold structure for encapsulating dynamoelectric machinery. 3,058,156, 10–16–62, Cl. 18—36.
Octagon Development Corp.: *See*—
Leedom, Harry. 3,052,311.
Oda, Donald J., and R. L. McCollor, to United States of America, Air Force. Range slewing switch for airborne radar. 3,015,818, 1–2–62, Cl. 343—7.3.
Oda, Mutsuo: *See*—
Fujii, Kiichi, Oda, Arita, Sakai, and Takeda. 3,037,998.
Fujii, Kiichi, Oda, Arita, Sakai, and Takeda. 3,068,281.
Oda, Roy: *See*—
Mindick, Morris, and Oda. 3,069,340.
Oda, Sennosuke: *See*—
Fukuda, Masataro, Oda, and Katashima. 3,041,388.
Oda, Soichi, and M. Kamura, to Kabushiki Kaisha Meidensha (known as Meidensha Electric Mfg. Co. Ltd.). Self-excited compound alternator. 3,030,568, 4–17–62, Cl. 322—2.5.
O'Dair, James R., W. Solomon, and T. Holtz, to North American Aviation, Inc. Wind tunnel testing. 3,068,690, 12–18–62, Cl. 73—147.
O'Day, Albert N. Washing apparatus. 3,062,188, 11–6–62, Cl. 119—159.
O'Day, Cortland N. Air distributor. 3,065,684, 11–27–62, Cl. 98—40.
O'Day, Cortland N., and G. J. Sweeney, to Air Devices, Inc. Air outlet construction. 3,064,550, 11–20–62, Cl. 98—114.
O'Day, Cortland N., and G. J. Sweeney, to Air Devices, Inc. Air diffuser. 3,067,669, 12–11–62, Cl. 98—40.
O'Day, Thomas P.: *See*—
Bruson, Herman A., and O'Day. 3,037,044.
Bruson, Herman A., and O'Day. 3,047,633.
O'Day, William R. Method and apparatus for the direct reduction of ores and subsequent fusion in a continuous operation. 3,032,410, 5–1–62, Cl. 75—10.
Oddo, Carl A.: *See*—
Marinese, Anthony J., and Oddo. 3,046,561.
Oddo, Dominick and T. Easy lacer for slipcovers for furniture etc. 3,066,435, 12–4–62, Cl. 45—68.
Oddo, Frank G., to Chas. Pfizer & Co., Inc. Apparatus for color-coding tablets. 3,045,641, 7–24–62, Cl. 118—16.
Oddo, Frank G., and J. J. Miskel, to Chas. Pfizer & Co., Inc. Apparatus and process for producing capsules. 3,032,950, 5–8–62, Cl. 53—140.
Oddo, Theresa: *See*—
Oddo, Dominick and T. 3,066,435.
O'Dea, Martin J., and R. F. E. Stegeman, to Bausch & Lomb Inc. Spectacles having attachment means for browpieces. 3,045,543, 7–24–62, Cl. 88—41.
Odell, Alexander D.: *See*—
Ridler, Desmond S., and Odell. 3,020,526.
Wright, Esmond P. G., Odell, and Parker. 3,015,755.
Wright, Esmond P. G., Ridler, and Odell. 3,069,660.
O'Dell, Edward: *See*—
Hellems, Elmer J., and O'Dell. 3,049,143.
Odell, Norman R.: *See*—
Lyons, Joseph F., and Odell. 3,025,238.
Pelton, Walter S., and Odell. 3,068,174.
O'Dell, Thomas E.: *See*—
Gray, Allan P., and O'Dell. 3,063,902.
O'Dell, William E. Feeder for parakeet aviaries. 3,040,706, 6–26–62, Cl. 119—51.
Oden, Robert R.: *See*—
Scott, Frank A., Oden, and Lawrence. 3,067,531.
Odendahl, Wilhelm. Valve construction. 3,068,882, 12–18–62, Cl. 137—116.
Odenkirk, Ellsworth B. Soil fumigating blanket. 3,029,558, 4–17–62, Cl. 47—1.
Oder, Wendell L. Bowling practice aid. 3,058,746, 10–16–62, Cl. 273—54.
Odin Corp.: *See*—
Bowman, Wilbur L. 3,040,609.
Svenson, Ernest J. 3,040,852.
Svenson, Ernest J. 3,040,886.
Svenson, Ernest J. 3,044,266.
Odioso, Raymond C., and K. J. Frech, to Gulf Research & Development Co. Process for cracking aromatic compounds. 3,062,903, 11–6–62, Cl. 260—668.
Odlum, William H., and W. F. Hosford, to Duro Metal Products Co. Separable mountings for electric motors or the like. 3,041,023, 6–26–62, Cl. 248—16.
Odom, Earl R. Combination tool. 3,021,599, 2–20–62, Cl. 33—46.
Odom, John H., and P. E. Murr, said Murr assor. to said Odom. Parking meter. 3,034,287, 5–15–62, Cl. 58—142.
Odone, Giovanni, and G. Milanese, to Corniglano Societa per Azioni. Method to form a film for protection against corrosion on sheets of galvanized steel. 3,039,900, 6–19–62, Cl. 148—6.21.
O'Donnell, Bernard R., to Endicott-Johnson Corp. Safety shoe. 3,068,593, 12–18–62, Cl. 36—72.
O'Donnell, Edward P., to R. C. Rich. Fishhook setting device. 3,015,181, 1–2–62, Cl. 43—15.
O'Donnell, Henry L., deceased; M. E. O'Donnell, executrix, to The Bryant Electric Co. Wiring device. 3,064,071, 11–13–62, Cl. 174—53.
O'Donnell, John F., and C. B. Richey, to Ford Motor Co. Adjustable tread wheel. 3,048,443, 8–7–62, Cl. 301—9.
O'Donnell, Mary E.: *See*—
O'Donnell, Henry L. 3,064,071.
O'Donnell, Raymond P. Windshield wipers. 3,034,167, 5–15–62, Cl. 15—250.29.
O'Donnell, Thomas P. Paper currency. 3,057,645, 10–9–62, Cl. 283—57.
O'Donnell, William R.: *See*—
Sagarin, Philip H., and O'Donnell. 3,050,219.
Steiman, Wolf, and O'Donnell. 3,036,744.
O'Dor, Martin E.: *See*—
Ballard, Louie W., and O'Dor. 3,045,106.
Oediger, Hermann: *See*—
Eiter, Karl, Oediger, and Truscheit. 3,069,460.
Oehler, William P., and H. V. Hansen, to Deere & Co. Connection facilitating draft connection. 3,019,032, 1–30–62, Cl. 280—478.

Oehler, William P., and H. V. Hansen, to Deere & Co. Planter frame. 3,055,322, 9–25–62, Cl. 111—52.

Oehler, William P., and H. V. Hansen, to Deere & Co. Planter frame. 3,059,705, 10–23–62, Cl. 172—413.

Oehlschlager, George A., A. S. Meloy, Jr., and W. C. Van Ness, to The Singer Mfg. Co. Thread tension device for sewing machines. 3,041,008, 6–26–62, Cl. 242—155.

Oehrli, John W., to McCulloch Corp. Lubricating system for chain saws. 3,044,506, 7–17–62, Cl. 143—32.

Oelgoetz, Paul A., to North American Aviation, Inc. Method and apparatus for electro-chemical milling. 3,017,341, 1–16–62, Cl. 204—242.

Oelgoetz, Paul A., to North American Aviation, Inc. Apparatus for electro-chemically removing metal. 3,039,950, 6–19–62, Cl. 204—242.

Oerlikon Engineering Co.: *See*—
Duechner, Gerhard. 3,048,016.
Spiess, Hans. 3,033,577.
Storsand, Bjarne. 3,059,171.
Storsand, Bjarne, and Orel. 3,059,166.

Oerman, Orey W., and J. F. Sullivan, to Deere & Co. Front mounted bedder. 3,049,181, 8–14–62, Cl. 172—298.

Oerman, Orey W., and R. E. Cox, to Deere & Co. Front mounted bedder. 3,063,504, 11–13–62, Cl. 172—173.

Oesterling, Robert E.: *See*—
Inman, Charles E., Oesterling, and Tyczkowski. 3,030,408.
Inman, Charles E., Oesterling, and Tyczkowski. 3,067,-211.
Inman, Charles E., Oesterling, and Tyczkowski. 3,070,-593.
Inman, Charles E., Oesterling, and Tyczkowski. 3,070,-609.

Oestermeyer, Carl F., R. M. Raney, H. L. Koenig, and H. T. Havlick, to The Electric Storage Battery Co. Deferred action battery. 3,036,140, 5–22–62, Cl. 136—90.

Oestreicher, Warren J. Beam tube oscillator with feedback circuit between the output and deflecting electrodes. 3,056,093, 9–25–62, Cl. 331—80.

Oettinger, Joseph S. Container construction. 3,062,428, 11–6–62, Cl. 229—31.

O'Farrell, Matthew, to Chicago Pneumatic Tool Co. Throttle valve for pneumatic percussive tool. 3,038,446, 6–12–62, Cl. 121—21.

O'Farrell, Matthew, to Chicago Pneumatic Tool Co. Distributing valve assembly for pneumatic percussive tools. 3,038,-447, 6–12–62, Cl. 121—29.

Offe, Hans A., and M. Federmann, to Bayer Aktiengesellschaft, Farbenfabriken. Process for the production of a salt of the laevulinic acid derivative of cyanacetic acid hydrazide. 3,057,866, 10–9–62, Cl. 260—268.

Offeman, Richard E.: *See*—
Stuchell, Harry S., Jordan, and Offeman. 3,027,322.
Stuchell, Harry S., Jordan, and Offeman. 3,027,323.

Offen, B., & Co.: *See*—
Offen, Bernard. 3,067,586.

Offen, Bernard, to B. Offen & Co. Process and apparatus for chilling printed webs. 3,067,586, 12–11–62, Cl. 62—63.

Offerman, Seymour, to Industrial Electronic Hardware Corp. Socket with tube retainer. 3,041,573, 6–26–62, Cl. 339—93.

Office National d'Etudes et de Recherches Aeronautiques O.N.E.R.A.: *See*—
Barrere, Marcel, and Moutet. 3,021,710.
Destuynder, Roger M., and Loiseau. 3,039,296.
Fayard, Georges G. 3,051,886.
Fayard, Georges G. 3,051,389.
Fayard, Georges G. 3,051,391.
Fayard, Georges G. 3,059,852.
Galmiche, Philippe. 3,053,649.

Officine Meccaniche e Fonderie A. Bosco S.p.A.: *See*—
Sguera, Giuseppe. 3,036,714.

Offner, Franklin F. Transistor amplifier. 3,018,444, 1–23–62, Cl. 330—10.

Offutt, William C.: *See*—
Donaldson, Robert E., Offutt, and Rice. 3,062,735.

Ofner, Frank R., to Industrial Powertronix, Inc. Flow measuring and dividing system. 3,056,293, 10–2–62, Cl. 73—198.

Ofner, Frank R., to Powertronix, Inc. Recovery system. 3,057,076, 10–9–62, Cl. 34—12.

"O-For," Olsson Zollikerberg & Co.: *See*—
Treschow, Adam C. O. 3,028,241.

Oganovic, Peter. Pad or mat for garages or the like. 3,062,-323, 11–6–62, Cl. 184—106.

Oganowski, Kasimir, and F. M. Morrow, to Armco Steel Corp. Metallic coating exit machine with driven rolls. 3,016,041, 1–9–62, Cl. 118—419.

Ogasawara, Kazuo: *See*—
Ishidate, Morizo, Goto, and Ogasawara. 3,031,378.

Ogawa, Kiyoshi: *See*—
Ebihara, Keikichi, and Ogawa. 3,025,810.

Ogawa, Tetsuo, T. Tsunoda, S. Okumura, and A. Ozaki, to Ajinomoto Co., Inc., and Sanraku Distillers Co., Inc. Fermentation process for producing L-glutamic acid. 3,042,585, 7–3–62, Cl. 195—47.

Ogawa, Yoshihisa: *See*—
Suzuki, Shigeru, Shimoyamada, Akabayashi, Ogawa, and Iwatsuki. 3,055,735.

Ogburn, Charles E.: *See*—
Ogburn, Ray E. and C. E., and Blevins. 3,029,868.

Ogburn, Ray E. Folding door construction. 3,015,359, 1–2–62, Cl. 160—206.

Ogburn, Ray E. and C. E. and W. H. Blevins, to Superior Millwork, Inc. Folding door construction having movable guide track. 3,029,868, 4–17–62, Cl. 160—118.

Ogden, Franklin F., to Monsanto Chemical Co. Photosensitive resinous compositions. 3,046,136, 7–24–62, Cl. 96—114.

Ogden, Franklin F., to Monsanto Chemical Co. Photosensitive resinous compositions. 3,046,137, 7–24–62, Cl. 96—115.

Ogden, Frederic W., E. Pascucci, and H. C. Schiffer, to The Miller Co. Lighting fixture. 3,060,309, 10–23–62, Cl. 240—51.11.

Ogden, George W., Jr., to David-Atomic, Inc. Spectroscopic apparatus. 3,053,388, 10–16–62, Cl. 88—14.

Ogden Industries Pty. Ltd.: *See*—
Hynes, James P., and Dunphy. 3,020,039.

Ogden, Joseph, to Engelhard Industries, Inc. Method of coating metal. 3,066,042, 11–27–62, Cl. 117—65.2.

Ogden, Joseph, and P. J. Armeny, to Engelhard Industries, Inc. Spinnerette. 3,049,753, 8–21–62, Cl. 18—8.

Ogden, Ralph P. Hydro-pneumatic spring unit. 3,033,552, 5–8–62, Cl. 267—1.

Ogden, William M.: *See*—
Guarino, Louis S., and Ogden. 3,048,836.

Ogdon, Ernest B., Toy guns. 3,026,640, 3–27–62, Cl. 40—77.

Ogelsby, Evelyn M.: *See*—
Davis, Robert F. 3,018,932.

Oger, Eugène, to Compagnie Generale de Telegraphie Sans Fil. Carrier wave changing systems. 3,046,395, 7–24–62, Cl. 250—20.

Ogg, Robert D., to The Eastern Co. Anchor with hinged crown section. 3,024,756, 3–13–62, Cl. 114—208.

Ogier, Baxter B., and L. A. Umbach, to The Photogenic Machine Co. Photographic light unit. 3,021,422, 2–13–62, Cl. 240—1.3.

Ogilvie Flour Mills Co., Ltd.: *See*—
Bisselbaum, Allan A. 3,045,026.
Gaver, Kenneth M., Adamek, and Barton. 3,046,142.

Ogilvie, Thomas S. Bass flute. 3,062,084, 11–6–62, Cl. 84—384.

Ogiu, Kikuo: *See*—
Takahashi, Torizo, Ogiu, Fujimura, Satoda, Fukui, and Yamamoto. 3,047,573.

Ogle, Hugh M., to General Electric Co. Magnetic amplifier having non-linear response characteristic. 3,016,486, 1–9–62, Cl. 323—89.

Ogle, James A., to Burroughs Corp. Position indicating apparatus. 3,049,462, 6–26–62, Cl. 250—219.

Ogle, James A., Jr., and J. R. Gomersall, to McGraw-Edison Co. Control knob construction. 3,018,671, 1–30–62, Cl. 74—504.

Ogle, James C., Jr., D. W. Barkley, and S. H. Harwig, to Libbey-Owens-Ford Glass Co. Heated face plate for pilot's helmet. 3,024,341, 3–6–62, Cl. 219—20.

Ogle, James C., Jr., and D. W. Barkley, to Libbey-Owens-Ford Glass Co. Electrically conductive multi-layer transparent article and method for making the same. 3,053,-698, 9–11–62, Cl. 117—211.

Ogle, John G., Jr. Power mower safety shield. 3,040,503, 6–26–62, Cl. 56—25.4.

Ogle, Pearl R., Jr., to United States of America, Atomic Energy Commission. Method for the recovery and purification of gaseous UF$_6$ from gaseous mixtures and UF$_6$·NO$_2$ and UF$_6$·NO$_2$ products produced thereby. 3,039,846, 6–19–62, Cl. 23—14.5.

Oglebay Norton Co.: *See*—
Anthony, Benjamin F. 3,063,111.
Carpenter, Joel C. 3,018,527.
Carpenter, Joel C. 3,046,625.
Mueller, John W. 3,039,158.
Urmetz, Walter W., and Carpenter. 3,058,182.

Oglesby, Nicholas P., H. L. Turpin, Jr., and R. E. Fowlkes. Trench digging machines. 3,039,208, 6–19–62, Cl. 37—81.

O'Halloran, Joseph P.: *See*—
Dunlop, Andrew P., Manly, and O'Halloran. 3,065,243.

Ohan, William J.: *See*—
Rusoff, Irving I., Ohan, and Long. 3,047,395.

O'Hara, Francis J., and H. Scharfman, to Raytheon Co. Serrodyne frequency shifters. 3,058,049, 10–9–62, Cl. 321—69.

O'Hara, James B., to Olin Mathieson Chemical Corp. Production of boron trichloride. 3,019,089, 1–30–62, Cl. 23—205.

O'Hara, Mark J., to Universal Oil Products Co. Hydrodesulfurization process and catalyst therefor. 3,016,346, 1–9–62, Cl. 208—216.

O'Hara, Mark J., to Universal Oil Products Co. Hydrocarbon purification process and catalyst. 3,016,347, 1–9–62, Cl. 208—216.

O'Hara, Stephen J. Mechanism for supporting and facilitating the manipulation of papers. 3,060,939, 10–30–62, Cl. 129—18.

O'Hara-Wright, James. Production of an animated display. 3,068,744, 12–18–62, Cl. 88—16.

O'Hare, Joe E. Film loading guide. 3,065,924, 11–27–62, Cl. 242—71.2.

Ohashi, Hideichiro, K. Kawasaki, J. Koshiba, and R. Tsuji, to Chori Co. Ltd., and Tsudakoma Industrial Co., Ltd. Apparatus for producing crimped thermoplastic synthetic yarns. 3,046,633, 7–31–62, Cl. 28—1.

Ohashi, Saichiro, to Chiyoda Kogaku Seiko Kabushiki Kaisha. Camera apparatus. 3,040,639, 6–26–62, Cl. 95—10.

Ohaus, Robert E., to Ohaus Scale Corp. Weighing device. 3,032,132, 5–1–62, Cl. 177—171.
Ohaus Scale Corp. : *See*—
Ohaus, Robert E. 3,032,132.
Ohba, Seiichi, T. Yonezawa, and A. Kumai, to Fuji Photo Film Co. Ltd. Process for the production of photographic materials. 3,022,172, 2–20–62, Cl. 96—114.
Ohgren, Arne E. : *See*—
Lingle, Harrison C., and Ohgren. 3,068,485.
Ohio Brass Co., The : *See*—
Harmon, Robert W. 3,046,327.
Heath, Donald L. 3,040,282.
Kalb, John W. 3,019,367.
Smothers, William J., and Selsing. 3,024,303.
Ohio Crankshaft Co., The : *See*—
Armstrong, Robert G., and Laughlin. 3,057,986.
Cornell, Frank J. 3,058,077.
McBrien, Edward F. 3,067,308.
Peschel, William F. 3,064,109.
Tudbury, Chester A. 3,020,452.
Ohio Injector Co., The : *See*—
Milleville, Bertram J. 3,051,190.
Ohio Oil Co., The : *See*—
Allred, Victor D. 3,059,393.
Norton, Charles J. 3,028,263.
Ohio State University Research Foundation, The : *See*—
Robertson, William J., and Copeland. 3,041,452.
Ohio Thermometer Co., The : *See*—
Wappner, Charles L. 3,055,216.
Wappner, Ralph C. 3,022,671.
Ohlander, Jan G. A. : *See*—
Lindquist, Curt A. J., Ohlander, and Thulin. 3,027,065.
Ohlhausen, William T. Ground hinged picket type gate. 3,022,590, 2–27–62, Cl. 39—5.
Ohlheiser, Carlton E., to American Instrument Co., Inc. Calibrating means for a humidity control device. 3,070,-062, 12–25–62, Cl. 116—133.
Ohlinger, Leo A. : *See*—
Wigner, Eugene P., Ohlinger, Young, and Weinberg. 3,052,613.
Ohlinger, Leo A., to United States of America, Atomic Energy Commission. Neutronic reactor manipulating device. 3,048,533, 8–7–62, Cl. 204—193.2.
Ohlmann, Robert C., and M. Garbuny, to United States of America, Air Force. Thermal image converter system. 3,030,546, 4–17–62, Cl. 315—9.
Ohloff, Günther, and G. Schade, to Dragoco Gerberding & Co., G.m.b.H. Process of making α,β-unsaturated ketones and products. 3,070,629, 12–25–62, Cl. 260—586.
Ohlson, Bengt E., to Electrolux, Aktiebolaget. Air filter. 3,048,960, 8–14–62, Cl. 55—372.
Ohlson, Carl V. : *See*—
Wright, John H., and Ohlson. 3,069,806.
Ohlson, John L. : *See*—
Findley, Thomas W., Ohlson, and Kuester. 3,035,069.
Kuester, Frank E., and Ohlson. 3,070,608.
Ohlson, Leonard T. : *See*—
Tannenbaum, Wesley, Cleary, and Ohlson. 3,043,919.
Ohlsson, Ernst : *See*—
Kreps, Saul I., Ohlsson, and Epstein. 3,030,275.
Ohly, Karl W. : *See*—
Major, Randolph T., and Ohly. 3,027,407.
Ohmart Corp., The : *See*—
Ohmart, Philip E. 3,019,358.
Ohmart, Philip E. 3,019,362.
Ohmart, Philip E., and Cook. 3,060,313.
Ohmart, Philip E., and Cook. 3,070,692.
Ohmart, Philip E., to The Ohmart Corp. Radioactive battery with chemically dissimilar electrodes. 3,019,358, 1–30–62, Cl. 210—3.
Ohmart, Philip E., to The Ohmart Corp. Radiant energy electric generator for density responsive apparatus. 3,019,362, 1–30–62, Cl. 313—93.
Ohmart, Philip E., and H. L. Cook, Jr., to The Ohmart Corp. Density responsive apparatus having temperature compensating means. 3,060,313, 10–23–62, Cl. 250—43.5.
Ohmart, Philip E., and H. L. Cook, Jr., to The Ohmart Corp. Sewage sludge density measuring apparatus. 3,070,692, 12–25–62, Cl. 250—43.5.
Ohm, Edward A., to Bell Telephones Laboratories, Inc. Wave guide taper. 3,040,277, 6–19–62, Cl. 333—34.
Ohmega Laboratories : *See*—
Foster, Harry R., and Crump. 3,049,683.
Ohmite Mfg. Co. : *See*—
Levy, Herbert. 3,068,441.
Ohms, Conrad A., 50% to H. Gabaldon. Attachment for mixing and grinding machine. 3,063,486, 11–13–62, Cl. 146—182.
Ohmstede, Gene E., to Ohmstede Machine Works, Inc. Apparatus for cleaning heat exchangers and tube bundles. 3,061,294, 10–30–62, Cl. 263—43.
Ohmstede Machine Works, Inc. : *See*—
Ohmstede, Gene E. 3,061,294.
Ohno, Mei : *See*—
Motozaki, Shinichi, Ohno, and Fujiwara. 3,029,280.
Motozaki, Shinichi, Ohno, and Fujiwara. 3,029,281.
Ohno, Yasuji : *See*—
Tanabe, Kenichi, and Ohno. 3,023,182.
Ohnstad, Howard K. Ball-point pen rejuvenator. 3,029,330, 4–10–62, Cl. 219—19.
Öholm, Gustav : *See*—
Jorman, Göte, and Öholm. 3,028,681.
Ohrn, Carl H., to Research Equipment Co. Radiation shielding window. 3,045,120, 7–17–62, Cl. 250—108.
Ohrn, Karl-Gustav : *See*—
Jakobsson, Per A. H., and Ohrn. 3,065,514.
Ohrnberger, Robert, to Vereinigte Werkzeugmaschinenfabriken A.G. Spindle mounting for machine tools. 3,058,559, 10–16–62, Cl. 192—91.
Ohrnberger, Robert, to Vereinigte Werkzeugmaschinenfabriken A.G. Screw-thread drive for machine tools. 3,064,758, 11–20–62, Cl. 184—6.
Ohse, Charles W. Warning device for vacuum systems. 3,025,504, 3–13–62, Cl. 340—240.
Ohtaki, Shinshiro. Process for manufacturing powdered preparations containing fat-soluble vitamins, essential oils and mixtures thereof. 3,056,726, 10–2–62, Cl. 167—81.
Ohyagi, Koji. Grinder or like machine tool. 3,031,803, 5–1–62, Cl. 51—32.
Ohyagi, Koji. Rotary pump. 3,048,120, 8–7–62, Cl. 103—123.
Oil Base, Inc. : *See*—
Wilson, Doyne L. 3,063,941.
Oil Center Tool Co. : *See*—
Lebeaux, Jacob M. 3,025,083.
Zawacki, John P. 3,061,268.
Oilfield Equipment Corp. of Colorado : *See*—
Byrd, Joseph P. 3,029,650.
Oilgear Co., The : *See*—
Douglas, James K. 3,045,695.
Douglas, William C. 3,037,489.
Grad, Adolf R. 3,020,890.
Grad, Adolf R. 3,065,711.
Nitka, Norbert J., and Davis. 3,026,677.
Wiedmann, Ernst, Davis, and Grad. 3,065,740.
Wiedmann, Ernst, and Grad. 3,026,854.
Oil Metering and Processing Equipment Corp. : *See*—
Smith, Horace V. 3,031,885.
Smith, Horace V. 3,032,066.
Smith, Horace V. 3,045,485.
Smith, Horace V. 3,054,290.
Oil Seed Products, Inc. : *See*—
Goering, Kenneth J. 3,044,876.
Oil Shale Corp., The : *See*—
Aspegren, Olof E. A., and Eklund. 3,025,223.
Culbertson, William J., Jr., and Nevens. 3,020,209.
Nevens, Thomas D. 3,018,243.
Nevens, Thomas D. 3,034,979.
Nevens, Thomas D., and Culbertson. 3,020,227.
Otis, Russell M. 3,058,903.
Oishei, John R., to Trico Products Corp. Windshield wiper. 3,018,501, 1–30–62, Cl. 15—250.42.
Oishei, John R., to Trico Products Corp. Windshield cleaner. 3,040,358, 6–26–62, Cl. 15—250.27.
Oishei, John R., to Trico Products Corp. Windshield wiper arm. 3,042,955, 7–10–62, Cl. 15—250.35.
Oishei, John R., to Trico Products Corp. Windshield wiper. 3,045,272, 7–24–62, Cl. 15—250.13.
Oishei, John R., to Trico Products Corp. Combined windshield cleaner and washer. 3,068,506, 12–18–62, Cl. 15—250.2.
Oishei, John R., and M. Bitzer, to Trico Products Corp. Windshield wiping system. 3,023,445, 3–6–62, Cl. 15—250.12.
Oishei, John R., and W. C. Riester, to Trico Products Corp. Windshield cleaning system. 3,025,551, 3–20–62, Cl. 15—250.02.
Oishei, John R., M. Bitzer, and A. C. Scinta, to Trico Products Corp. Windshield cleaning system. 3,032,019, 5–1–62, Cl. 121—97.
Oishei, John R., and H. V. Robert, Jr. ; said Roberts assor. to Trico Products Corp. Vehicle window control system. 3,044,823, 7–17–62, Cl. 296—44.
Oishei, John R., and A. C. Scinta, to Trico Products Corp. Windshield wiper. 3,056,160, 10–2–62, Cl. 15—250.32.
Oishei, John R., and R. C. Horton, to Trico Products Corp. Windshield wiper system. 3,066,343, 12–4–62, Cl. 74—95.
Oita, Katashi, and E. F. Jason, to Standard Oil Co. Styrene copolymers. 3,052,649, 9–4–62, Cl. 260—45.5.
Oja, Phyllis D., to The Dow Chemical Co. Chloropyrocatechol thionic acid compounds. 3,043,866, 7–10–62, Cl. 260—512.
Oja, Phyllis D., to The Dow Chemical Co. Methylcarbamates. 3,046,302, 7–24–62, Cl. 260—482.
Oja, Phyllis D., to The Dow Chemical Co. 4-aryl,1,1-di propynyl-semicarbazides. 3,067,250, 12–4–62, Cl. 260—552.
Ojala, Harry R. : *See*—
Brock, Henry W., Hooton, and Ojala. 3,053,306.
Ojala, William K., ¼ to M. Nord. Aural check list. 3,059,-062, 10–16–62, Cl. 179—100.1.
Ojima, Yoshinobu. Coil winding machine. 3,047,246, 7–31–62, Cl. 242—9.
Okada, Eizo, to The Fuji Photo Film Co., Ltd. Container used combined for package and advertisement. 3,028,951, 4–10–62, Cl. 206—45.14.
Okada, Hiroshi : *See*—
Takeda, Yoshito, Matsui, and Okada. 3,028,309.
Okada, Minoru : *See*—
Maruyama, Kunimori, and Okada. 3,061,362.
Okada, Yutaka : *See*—
Tsuda, Kyosuke, Oki, Nozoe, and Okada. 3,040,036.
Tsuda, Kyosuke, Oki, Nozoe, and Okada. 3,040,037.
Okamoto, Eiichi, Y. Seki, and S. Suzuki, to Nippon Electric Co., Ltd. Capacitor. 3,065,393, 11–20–62, Cl. 317—258.

Okamoto, Yukio. Collapsible lamp shade. 3,023,307, 2–27–62, Cl. 240—108.
Okano, Atsuji : *See*—
Miyatake, Kazuo, Okano, Hoji, Miki, Sakashita, Oshima, and Kasahara. 3,023,147.
Okawa, Kazuyoshi : *See*—
Hijiya, Kenji, and Okawa. 3,018,503.
O'Keefe, Eugene M., to Phoenix Products Co., Inc. Mounting for electric lamps. 3,018,366, 1–23–62, Cl. 240—41.
O'Keefe, Joe P. Clothes hanger entangling guard. 3,024,953, 3–13–62, Cl. 223—88.
O'Keefe, Michael F., and F. W. Wahl, to AMP Inc. Electrical connector. 3,015,683, 1–2–62, Cl. 174—84.
Oken, Stanley : *See*—
Rabin, Richard, Oken, and Slavin. 3,023,959.
Oki, Eiji : *See*—
Tsuda, Kyosuke, Oki, Nozoe, and Okada. 3,040,036.
Tsuda, Kyosuke, Oki, Nozoe, and Okada. 3,040,037.
Oki Electric Industry Co., Ltd. : *See*—
Aoi, Saburo, and Murata. 3,070,550.
Sasaki, Rentaro. 3,041,965.
Oki, Kikuo, and S. Sato, to Nippon Electric Co. Ltd. Electronic root-locus computing device. 3,031,141, 4–24–62, Cl. 235—185.
Oki, Takanosuke : *See*—
Noguchi, Yoshiyuki. 3,015,964.
Okkerse, Boudewijn, to North American Philips Co., Inc. Method and apparatus for drawing crystals from a melt. 3,033,660, 5–8–62, Cl. 23—301.
Okner, Luke, to Standard Optical Mfg. Co. Temple hinge for spectacle frames. 3,029,697, 4–17–62, Cl. 88—53.
Okonek, Leonard J. Method for handling meat carcasses. 3,067,889, 12–11–62, Cl. 214—152.
Okonite Co., The : *See*—
Antolino, Michael R. 3,024,492.
Eigen, David. 3,015,774.
Eigen, David. 3,047,800.
Eigen, David, and Peer. 3,032,652.
Feller, Robert W., and Sweney. 3,047,448.
Peer, Robert W., and Eigen. 3,047,799.
Peer, Robert W., and Eigen. 3,047,804.
Okress, Ernest C., and L. C. Werner, to United States of America, Navy. High power waveguide windows. 3,018,453, 1–23–62, Cl. 333—98.
Okubo, George H. : *See*—
Kelling, Harmon H., and Okubo. 3,068,430.
Okuda, Jiro : *See*—
Muroga, Ko, and Okuda. 3,025,356.
Okuda, Noriyuki, and K. Suzuki, to Daiichi Seiyaku Co., Ltd. Process for the production of cyclohexylsulfamates. 3,043,864, 7–10–62, Cl. 260—500.
Okuda, Takeo : *See*—
Ito, Chuko, Okuda, and Hamabe. 3,065,045.
Okuda, Tomoharu, to Tanabe Seiyaku Co., Ltd. N-organomercuricycloheximides. 3,039,920, 6–19–62, Cl. 167—33.
Okuda, Yoshimatsu. Solar hot water heater. 3,029,806, 4–17–62, Cl. 126—271.
Okuda, Yoshimatsu. Solar hot water heater having an automatic water supply valve. 3,052,228, 9–4–62, Cl. 126—271.
Okuma, Kensuke : *See*—
Akaboshi, Michijiro, Uragami, and Okuma. 3,052,610.
Okumura, Shinji : *See*—
Ogawa, Tetsuo. 3,042,585.
Okunami, Hideo. Adjustable drying rack. 3,015,185, 1–2–62, Cl. 45—24.
Okuyama, Ryoji. Ventilated rubber shoe. 3,060,599, 10–30–62, Cl. 36—3.
Olah, George A., and A. A. Oswald. Amidodifluoroarsenites. 3,024,238, 3–6–62, Cl. 260—271.
Olah, George A., and A. A. Oswald. N-alkli imidohaloarsenites. 3,024,261, 3–6–62, Cl. 260—440.
Olah, George A., and S. J. Kuhn, to The Dow Chemical Co. Method of making alpha-haloethyl vinylbenzenes. 3,024,-291, 3–6–62, Cl. 260—651.
Olah, George A., S. J. Kuhn, and H. W. Quinn, to The Dow Chemical Co. Method of alkylating beta-haloethylbenzenes. 3,052,733, 9–4–62, Cl. 260—651.
Olah, George A., and S. J. Kuhn, to The Dow Chemical Co. Preparation of thiophosphoryl bromide. 3,061,405, 10–30–62, Cl. 23—14.
Olalainty, Edouard. Psychological testing apparatus. 3,029,-526, 4–17–62, Cl. 35—22.
Oland, Frank, and R. R. Maccani, to Allen-Bradley Co. Phenolmelamine-formaldehyde resin and process of preparing same. 3,070,572, 12–25–62, Cl. 260—45.1.
Olander, Donald E., to Universal Match Corp. Pyrotechnic compositions. 3,028,229, 4–3–62, Cl. 149—40.
Olander, Robert G., to The Marquardt Corp. Fluid flow controller. 3,067,773, 12–11–62, Cl. 137—613.
Olandt, John W., to Specialties Development Corp. Fluid distributing system. 3,016,956, 1–16–62, Cl. 169—11.
Olandt, John W., to Specialties Development Corp. Propellant composition. 3,051,652, 8–28–62, Cl. 252—7.
Olbrich, Leopold, to Daimler-Benz Aktiengesellschaft. Gas turbine power plant. 3,067,579, 12–11–62, Cl. 60—35.55.
Olby, Bengt : *See*—
Persson, Ernest, and Olby. 3,036,518.
Olby, John K., to Associated Lead Manufacturers Ltd. Pigments. 3,058,838, 10–16–62, Cl. 106—299.
Olcott, Bernard : *See*—
McDorman, Emilou. 3,037,302.
Old, Albert F., to Solite Corp. Method and apparatus for production of lightweight aggregate from dust. 3,039,165, 6–19–62, Cl. 25—156.
Old, Bruce S., R. W. Hyde, H. P. Meissner, S. V. Margolin, and F. C. Schora, Jr., to Arthur D. Little, Inc. Beneficiation of ores. 3,020,149, 2–6–62, Cl. 75—26.
Oldberg Mfg. Co. : *See*—
Deremer, Floyd E. 3,070,187.
Oldberg, Sidney, and D. W. Roper, to Eaton Mfg. Co. Fluid coupling device. 3,055,473, 9–25–62, Cl. 192—58.
Old Dominion Box Co., Inc. : *See*—
Phillips, Floyd L., Jr. 3,021,992.
Ullrich, Fred J., and Buttery. 3,026,013.
Oldenburg, Frank A. Pulsating stomach pumping apparatus and the like. 3,016,055, 1–9–62, Cl. 128—278.
Oldenburg, Kenneth F., to Clary Corp. Perforated record sensing device. 3,051,380, 8–28–62, Cl. 235—61.11.
Oldenburg, Kenneth F., and R. S. Mark, to Clary Corp. Card printing machine. 3,031,954, 5–1–62, Cl. 101—93.
Oldenburg, Kenneth F., and F. N. Schwend, to Clary Corp. Intermittent strip feeding mechanism. 3,048,253, 8–7–62, Cl. 197—133.
Oldenburg, Kenneth F., and F. N. Schwend, to Clary Corp. Perforating apparatus. 3,051,376, 8–28–62, Cl. 234—115.
Oldenburger, Rufus, to Curtiss-Wright Corp. Hydraulic governors. 3,051,138, 8–28–62, Cl. 121—42.
Oldershaw, Charles F. : *See*—
Lynn, Scott, and Oldershaw. 3,062,733.
Oldfield, Andrew, and S. F. Hostetler, to Textron Inc. Lens blocking device. 3,020,684, 2–13–62, Cl. 51—235.
Oldfield, Eric : *See*—
Canfor, Kenneth, Goba, Tiley, and Oldfield. 3,026,471.
Tiley, Gerald L., Oldfield, and Wykes. 3,058,547.
Oldfield, Thomas A., to Rolls-Royce Ltd. Gas turbine engine. 3,070,285, 12–25–62, Cl. 230—116.
Oldham, and Oldham : *See*—
Timms, Ross L. 3,068,984.
Oldham, Wilfred J. : *See*—
Habeshaw, John, Oldham, and Wirth. 3,024,292.
Olds, Geoffrey C. E., to Associated Electrical Industries (Rugby) Ltd. Magnesium alloys. 3,063,834, 11–13–62, Cl. 75—168.
Olds, Harold E. : *See*—
Kershner, Osborn A., and Olds. 3,028,906.
Old Town Corp. : *See*—
Stephenson, Paul A. 3,046,007.
O'Leary, Charles D. Clamp. 3,021,853, 2–20–62, Cl. 135—15.
O'Leary, John F., A. M. Kunkel, and A. H. Jones, to United States of America, Army. Composition and method for treating anticholinesterase poisoning. 3,063,901, 11–13–62, Cl. 167—65.
O'Leary, Paul C., to Machinery Center Co., Inc. Timber skip. 3,036,661, 5–29–62, Cl. 187—1.
O'Leary, Paul C., to Machinery Center Co., Inc. Load, transport and dump earth working machine. 3,069,031, 12–18–62, Cl. 214—82.
O'Leary, Thomas G. : *See*—
Byer, Marshall, O'Leary, and Reed. 3,040,213.
Oleck, Stephen M. : *See*—
Eastwood, Sylvander C., Oleck, and Wantuck. 3,068,169.
Oleck, Stephen M., to Socony Mobil Oil Co., Inc. Manufacture of platinum metal-containing catalyst. 3,025,247, 3–13–62, Cl. 252—466.
Oleck, Stephen M., E. J. Rosinski, and S. J. Wantuck, to Socony Mobil Oil Co., Inc. Manufacture of platinum-alumina catalyst. 3,025,248, 3–13–62, Cl. 252—466.
Olender, Francis B., to Hewitt-Robins Inc. Screen deck. 3,042,206, 7–3–62, Cl. 209—395.
O'Lenick, Anthony J. : *See*—
Klausmann, Milton H., Brucker, and O'Lenick. 3,025,-813.
Olenick, Peter J., Jr. : *See*—
Sieve, Frank W., Olenick, and Fowler. 3,040,628.
Sieve, Frank W., Olenick, and Fowler. 3,041,017.
Oler, Ernst B., to Bofors, Aktiebolaget. Procedure for continuous manufacture and filling of containers. 3,048,951, 8–14–62, Cl. 53—28.
Oles, Joseph F., to The Murray Corp. of America. Lint filter. 3,015,224, 1–2–62, Cl. 68—18.
Oleskow, Mathew. Control valve for water softeners. 3,049,-144, 8–14–62, Cl. 137—391.
Oliari, Louis C. : *See*—
Barbagallo, Charles J., Fabiszewski, and Oliari. 3,037,-193.
Fabiszewski, Edward S., and Oliari. 3,040,987.
Olie, Jacob R., and P. J. Van Winsen, to Bronswerk, N.V. Electrodialysis apparatus with reversal of polarity. 3,043,-768, 7–10–62, Cl. 204—301.
Olila, Edwin R. Combined clamp and article holder. 3,041,-692, 7–3–62, Cl. 24—3.
Olin, Gösta R., to Norrmalms Industrier Aktiebolag. Apparatus for treating food. 3,065,553, 11–27–62, Cl. 34—191.
Olin, Irwin D. : *See*—
Allen, Philip J., and Olin. 3,037,204.
Olin, John F. : *See*—
Loev, Bernard, and Olin. 3,069,472.
Olin, John F., to Monsanto Chemical Co. Acyl derivatives of a polyhydroxy bicyclic ether. 3,041,354, 6–26–62, Cl. 260—345.2.
Olin, John F., B. Buchholz, B. Loev, and R. H. Goshorn, to Pennsalt Chemicals Corp. Process for preparation of methyl mercaptan. 3,070,632, 12–25–62, Cl. 260—609.

Olin Mathieson Chemical Corp.: *See*—
Adams, Richard F. 3,045,618.
Ager, John W., Jr. 3,033,644.
Alley, Starling K., and Fuchs. 3,030,423.
Altwicker, Elmar R. 3,030,420.
Altwicker, Elmar R., Garrett, Weilmuenster, and Harris. 3,038,012.
Altwicker, Elmar R., Garrett, Weilmuenster, and Harris. 3,052,725.
Andrew, Eugene A., and Williams. 3,037,417.
Ardis, Alan E., Nasti, and Vaitekunas. 3,036,122.
Bader, Morton E., and Budd. 3,068,142.
Becke, Margot. 3,048,630.
Becker, Edward J., and Lemanski. 3,059,000.
Bernstein, Harris E., and Cyr. 3,025,217.
Bernstein, Jack, and Losee. 3,052,721.
Bernstein, Jack, and Losee. 3,060,192.
Bernstein, Jack, and Lott. 3,019,226.
Bernstein, Jack, and Lott. 3,063,995.
Bleikamp, Donald R., and Wenger. 3,036,370.
Bodanszky, Miklos, and Sheehan. 3,065,240.
Bodanszky, Miklos, and Wiselogle. 3,024,242.
Bodanszky, Mikolas, and Sheehan. 3,040,054.
Brooks, Julius E., Jr. 3,041,768.
Bruson, Herman A., and Mason. 3,037,964.
Bruson, Herman A., and O'Day. 3,037,044.
Bruson, Herman A., and O'Day. 3,047,633.
Bush, John P., and Scott. 3,055,399.
Butler, Arthur J., and Wilkaitis. 3,052,577.
Callahan, Fred T. 3,045,339.
Campbell, Huntly M. 3,056,189.
Caro, Paul M., Miller, and Xavier. 3,051,553.
Cataldi, Maria S., Galmarini, and Pahn. 3,015,607.
Celentano, Vincent D., and Hagan. 3,044,897.
Ciarleglio, Louis F., Duffield, Staba, and Suffredini. 3,031,746.
Clark, Charles C. 3,062,756.
Clark, Charles C., Kanda, and King. 3,017,248.
Clark, Charles C., Kanda, and King. 3,021,197.
Clark, Charles C., Kanda, and King. 3,022,138.
Clark, Charles C., Kanda, and King. 3,022,139.
Clark, Charles C., and Kulwin. 3,030,219.
Clark, Sheldon L., and Fidler. 3,030,422.
Clark, Sheldon L., and Fidler. 3,045,049.
Clark, Sheldon L., and Heying. 3,030,185.
Cote, Raymond A. 3,061,141.
Cote, Raymond A. 3,061,142.
Cyr, Gilman N., and Bernstein. 3,029,188.
De Caro, Charles J. 3,040,326.
De Caro, Charles J. 3,061,833.
De Caro, Charles J., and Henning. 3,060,436.
De Caro, Charles J., Henning, and Ivins. 3,066,302.
De Caro, Charles J., and Kopf. 3,048,849.
Denton, William I. 3,044,850.
Dexter, Theodore H. 3,038,782.
Diassi, Patrick A. 3,022,310.
Diassi, Patrick A. 3,027,384.
Diassi, Patrick A. 3,030,291.
Diassi, Patrick A., Laskin, and Principe. 3,060,176.
Dobry, Reuven, Butterwoth, and Jang. 3,062,723.
Drexellus, Victor W. 3,036,373.
Duffield, Albert J. 3,061,908.
Elliott, Bernard J. 3,030,289.
Elliott, Bernard J., and Petherbridge. 3,060,438.
Faust, John P. 3,019,083.
Faust, John P., Fogle, and Heying. 3,030,184.
Ferlin, Henry J., Brady, and Merwin. 3,051,551.
Filstrup, Edward C. 3,016,015.
Filstrup, Edward C. 3,022,730.
Filstrup, Edward C. 3,041,969.
Filstrup, Edward C. 3,070,012.
Filstrup, Edward C., Jr. 3,018,731.
Florey, Klaus G., Bernstein, Restivo, and Yale. 3,057,-861.
Foster, Harry C. 3,026,800.
Foster, Harry C. 3,041,970.
Foster, Harry C. 3,041,971.
Foster, Harry C. 3,054,350.
Foster, Harry C. 3,060,959.
Foster, Harry C. 3,070,082.
Fried, Josef. 3,026,335.
Fried, Josef. 3,028,383.
Fried, Josef. 3,038,910.
Fried, Josef. 3,047,595.
Fried, Josef. 3,048,581.
Fried, Josef. 3,049,540.
Fried, Josef. 3,050,519.
Fried, Josef. 3,050,535.
Fried, Josef. 3,053,834.
Fried, Josef. 3,053,836.
Fried, Josef. 3,053,837.
Fried, Josef. 3,053,838.
Fried, Josef. 3,062,846.
Fried, Josef. 3,069,418.
Fried, Josef. 3,069,420.
Fried, Josef. 3,069,439.
Fried, Josef, and Diassi. 3,035,048.
Fried, Josef, and Diassi. 3,054,790.
Fried, Josef, and Herz. 3,022,296.
Fried, Josef, and Herz. 3,025,312.
Fried, Josef, and Herz. 3,042,690.
Fried, Josef, and Herz. 3,047,567.

Olin Mathieson Chemical Corp.: *See*—Continued
Fried, Josef, and Herz. 3,057,886.
Fried, Josef, and Thoma. 3,058,889.
Fried, Josef, and Thomas. 3,043,855.
Gilman, Charles B., and De Caro. 3,041,906.
Good, Carl D. 3,019,085.
Good, Carl D. 3,036,890.
Good, Carl D., and Williams. 3,030,289.
Goff, Lionel E. 3,059,324.
Graminski, Edmond L., and Wachtel. 3,030,407.
Grenell, Leland H. 3,053,514.
Grenell, Leland H., and Campbell. 3,034,204.
Griffin, Donald N., and Feller. 3,021,667.
Grundmann, Christoph J., and Kober. 3,022,303.
Haller, John F. 3,065,270.
Hartmann, Robert F. 3,046,166.
Hartshorne, Edward. 3,041,184.
Hay, Peter M., Mitchell, and Salatiello. 3,041,208.
Heinze, Richard R., and Ostrozynski. 3,035,883.
Helderman, James F. 3,038,159.
Henegar, Glen P., and Gardiner. 3,052,612.
Henning, Robert W. 3,060,441.
Henning, Robert W., and De Caro. 3,063,054.
Henning, Robert W., and Ivins. 3,060,435.
Henning, Robert W., and Ivins. 3,060,437.
Henning, Robert W., and Kopf. 3,029,434.
Henning, Robert W., and Marsh. 3,060,855.
Henning, Robert W., Pfaff, and Kopf. 3,041,616.
Heuer, Charles A. 3,020,633.
Heuer, Charles A. 3,052,964.
Heuer, Charles A., and Keith. 3,046,758.
Hewitt, John J. 3,037,997.
Heying, Theodore L. 3,066,009.
Holmes, Arthur J. 3,043,757.
Holmes, Arthur J., and Gardiner. 3,055,821.
Hubbard, Charles L., and Smith. 3,056,226.
Hydorn, Allan E. 3,035,056.
Irish, Charles G., Jr. 3,022,446.
Jaeger, Ulric R. 3,066,389.
Jaszka, Daniel J., and Marek. 3,036,013.
Johnson, James H. 3,021,634.
Johnson, Wallace C. 3,067,492.
Johnson, Wallace C., and Butt. 3,045,330.
Jones, Delbert R. 3,044,342.
Jurist, Alfred E. 3,022,290.
Kahn, Harry A., Koch, and Saeman. 3,032,006.
Kaiser, Donald W. 3,056,675.
Kaiser, Donald W. 3,037,059.
Karabinos, Joseph V., Hazdra, and Ferlin. 3,062,878.
Kippur, Perry R. 3,045,044.
Kober, Ehrenfried H., Rätz, and Ulrich. 3,041,346.
Kopf, Rowland J., Henning, and Marsh. 3,029,435.
Kopf, Rowland J., and Marsh. 3,019,440.
Kopf, Rowland J., and Marsh. 3,055,625.
Kopf, Rowland J., and Marsh. 3,064,262.
Kopf, Rowland J., and Marsh. 3,066,303.
Krapcho, John. 3,068,236.
Krause, Victor B. 3,048,264.
La Bash, John Jr., and Eilers. 3,035,474.
Laskin, Allen I. 3,056,730.
Laskin, Allen I., Fried, and Diassi. 3,063,992.
Levinson, Lawrence S. 3,055,922.
Lojewski, Eugene A. 3,023,558.
Maag, Raymond H. 3,037,891.
MacMullen, Clinton W., and Rockett. 3,032,578.
Manion, Jean P. 3,020,223.
Marek, Ronald W. 3,055,889.
Marsh, Roger. 3,021,746.
Marsh, Roger, Kopf, and Henning. 3,016,539.
McKillip, Richard H., and Henderson, 3,052,553.
McLain, Charles D. 3,039,867.
McSherry, James H., and Smith. 3,059,425.
Miller, Charles E., Robinson, and Woodring. 3,055,301.
Neidleman, Saul L. 3,061,522.
Nicolaisen, Bernard H. 3,056,656.
Numerof, Paul, and Knoll. 3,061,510.
O'Hara, James B. 3,019,089.
Ottmann, Gerhard F. 3,044,988.
Pauls, Theron F. 3,037,277.
Perlman, David. 3,021,262.
Perlman, David, and Heuser. 3,028,311.
Pfaff, Elmer F. 3,019,441.
Pfaff, Elmer F., and De Caro. 3,060,440.
Poulos, Nicholas A. 3,030,419.
Reynolds, Richard W., and Johnson. 3,015,157.
Riggs, Burd J. 3,048,104.
Robson, Homer L., and Wojcik. 3,061,409.
Roemer, Theodore J. 3,046,829.
Ross, John W. 3,022,226.
Ruth, John A. 3,049,543.
Ryschkewitsch, George E. 3,030,417.
Sawhill, Duane. 3,062,620.
Schnabel, Wilhelm J. 3,020,300.
Schur, Milton O. 3,021,732.
Schur, Milton O. 3,044,924.
Schur, Milton O. 3,046,994.
Seavey, Frederick R. 3,029,681.
Sih, Charles J., and Bennett. 3,047,469.
Sih, Charles J., and Weisenborn. 3,065,146.
Staba, Edward A. 3,060,879.
Stange, Hugo. 3,020,308.
Stange, Hugo. 3,030,418.

Olin Mathieson Chemical Corp.: *See*—Continued
Starrs, Bernard A. 3,027,371.
Starrs, Bernard A. 3,027,372.
Swidler, Ronald. 3,047,609.
Thoma, Richard W., and Fried. 3,031,477.
Thomas, Robert M. 3,063,782.
Thomas, Robert M., and Weisse. 3,020,316.
Treat, John W., Jr. 3,046,891.
Twelves, Robert D. 3,023,241.
Vaitekunas, Alexander A. 3,037,049.
Van Camp, William M., and Bleikamp. 3,038,246.
Vartanian, Edwin S. 3,052,053.
Voelz, Gordon J., Maier, and Turner. 3,036,307.
Wagner, Edmond M. 3,038,850.
Wagner, George M. 3,018,196.
Wagner, George M. 3,063,783.
Weisenborn, Frank L. 3,040,091.
Weisenborn, Frank L., and Laskin. 3,031,494.
Weisenborn, Frank L., and Pena. 3,022,311.
Weisenborn, Frank L., and Sih. 3,056,838.
Weisse, Guenter K., and Dannels. 3,061,642.
White, Chester M. 3,043,786.
Wild, Rolf H. 3,024,706.
Wild, Rolf H. 3,036,501.
Williams, Charles O. 3,036,374.
Williams, Charles O. 3,062,176.
Williams, Charles O., Drexelius, and Smith. 3,062,146.
Winternitz, Paul F., and Carotti. 3,022,350.
Yale, Harry L. 3,057,862.
Yale, Harry L. 3,057,863.
Yale, Harry L., and Bernstein. 3,035,044.
Yale, Harry L., and Bernstein. 3,040,042.
Yale, Harry L., and Sowinski. 3,050,524.
Yale, Harry L., Sowinski, and Bernstein. 3,054,791.
Yale, Harry L., Sowinski, and Bernstein. 3,069,432.
Yehling, George C., Jr. 3,053,829.
Yeomans, Arthur S., Jr. 3,022,731.
Yeomans, Arthur S., Jr. 3,056,225.
Olin, Stephen M., to Miles Laboratories, Inc. Preparation of dihydroagroclavine from a mixture of agroclavine and elymoclavine. 3,029,243, 4–10–62, Cl. 260—285.5.
Oliner, Arthur A., to Merrimac Research and Development Corp. Extremely wide-band, non-reciprocal coaxial components. 3,022,470, 2–20–62, Cl. 333—7.
Oliphant, Robert G.: *See*—
Boren, William M., Franklin, and Oliphant. 3,027,763.
Franklin, Robert K., Boren, Oliphant, and Crossman. 3,023,618.
Olive, George A.: *See*—
Leyton, Eric M., and Olive. 3,018,324.
Oliveau, John V., to Aerotec Industries, Inc. Locking device. 3,024,052, 3–6–62, Cl. 287—119.
Oliveau, John V., to Aerotec Industries, Inc. Pressure switch. 3,042,771, 7–3–62, Cl. 200—83.
Oliver, Albert J., to United States of America, Atomic Energy Commission. Fine grain nuclear emulsion. 3,031,304, 4–24–62, Cl. 96—94.
Oliver, Billy B.: *See*—
Kolding, Aaron R., and Oliver. 3,070,667.
Oliver, Burton L. Flow control apparatus. 3,027,910, 4–3–62, Cl. 137—397.
Oliver, Chauncey B., to Everpure, Inc. Dosing means. 3,049,142, 8–14–62, Cl. 137—114.
Oliver, Chauncey B., to Everpure, Inc. Water purifying apparatus. 3,055,503, 9–25–62, Cl. 210—238.
Oliver, Chester H., Jr., and A. Zack, to Sylvania Electric Products Inc. Electromagnetic coils. 3,068,435, 12–11–62. Cl. 336—180.
Oliver Corp.: *See*—
Mannheim, Guenther. 3,061,020.
Prunty, Robert E. 3,035,610.
Oliver, Curtis S.: *See*—
Bueche, Arthur M., and Oliver. 3,024,146.
Bueche, Arthur M., and Oliver. 3,031,366.
Oliver, Derek J., and S. F. Craddock, to Laporte Titanium Ltd. Titanium and aluminium salt solutions. 3,056,689, 10–2–62, Cl. 106—300.
Oliver, Ethemer J. Saw treating apparatus and method. 3,057,229, 10–9–62, Cl. 76—43.
Oliver, Frederick S.: *See*—
Doble, Frank C., and Oliver. 3,037,164.
Oliver, George F. N., and J. E. Apted, to Oliver Pell Control Ltd. Cutter blade assembly for a motor driven dry shaver. 3,060,569, 10–30–62, Cl. 30—37.
Oliver, Ivan L., to Boeing Airplane Co. Pipe to wall connection having injection type securing and sealing means. 3,031,212, 4–24–62, Cl. 285—192.
Oliver, John E., to Northrop Corp. Resistor mounting bracket. 3,058,714, 10–16–62, Cl. 248—300.
Oliver, John P., to Union Carbide Corp. Liquid electrical connection for electrolytic cells. 3,023,393, 2–27–62, Cl. 339—118.
Oliver, John P., to Union Carbide Corp. Blade electrode assembly. 3,037,929, 6–5–62, Cl. 204—288.
Oliver, John R. Low barrel revolver. 3,027,673, 4–3–62, Cl. 42—65.
Oliver, Kenneth R., Jr., to The Dow Chemical Co. Test specimen filament mounting. 3,063,294, 11–13–62, Cl. 73—160.
Oliver Machinery Co.: *See*—
Plasse, Paul A., and Politi. 3,027,271.
Oliver, Morris A., to AMP Inc. Friction testing apparatus. 3,033,019, 5–8–62, Cl. 73—9.
Oliver Pell Control Ltd.: *See*—
Oliver, George F. N., and Apted. 3,060,569.
Oliver, Raymond J. Bubble type level for hand drill. 3,052,036, 9–4–62, Cl. 33—207.
Oliver, Richard M.: *See*—
Ward, Charles T., Oliver, and Pandelis. 3,025,596.
Oliver, Robert B.: *See*—
Kaserman, John A., and Oliver. 3,063,290.
Oliver, Robert C.: *See*—
Bochinski, Julius H., Kohl, and Oliver. 3,049,563.
Oliver, Robert B., to Aeronautical Engineering Research, Inc. Method and apparatus for measuring surface contours. 3,056,209, 10–2–62, Cl. 33—174.
Oliver, Robert J., and M. M. Voegeli, to Swift & Co. Phosphate mixtures for curing meats. 3,028,246, 4–3–62, Cl. 99—222.
Oliver, Ruth F. Feeder. 3,049,093, 8–14–62, Cl. 119—51.
Oliver, William D.: *See*—
Walz, Frank C., and Oliver. 3,067,310.
Oliver, William F.: *See*—
Schiller, Arthur M., and Oliver. 3,066,116.
Oliveto, Eugene P.: *See*—
Robinson, Cecil H., and Oliveto. 3,045,030.
Robinson, Cecil H., and Oliveto. 3,045,032.
Shapiro, Elliot L., and Oliveto. 3,042,670.
Oliveto, Eugene P., and H. Reimann, to Schering Corp. 3β,11α-hydroxylated pregnanes and process for preparing same. 3,061,607, 10–30–62, Cl. 260—239.55.
Olivetti, Ing. C., & C. S.p.A.: *See*—
Capellaro, Natale. 3,029,014.
Capellaro, Natale, and Gassino. 3,040,977.
Maritano, Oddino S. 3,020,589.
Negri, Franco. 3,050,852.
Tonelli, Michele. 3,018,333.
Olivier, Charles A.: *See*—
Archambault, Maurice, MacEwan, and Olivier. 3,017,243.
Olivier, Daniel E., to Lock Joint Pipe Co. Apparatus and method for making prestressed concrete tubular members. 3,046,631, 7–31–62, Cl. 25—118.
Olk, Howard: *See*—
McGow, Thomas C., Poel, and Olk. 3,062,359.
Olley, Maurice, to General Motors Corp. Vehicle drum brake. 3,029,901, 4–17–62, Cl. 188—78.
Olley, Maurice, to General Motors Corp. Vehicle disk brake. 3,047,098, 7–31–62, Cl. 188—73.
Ollivier, Louis: *See*—
Brewer, Nathaniel, and Ollivier. 3,056,280.
Ollodort, Morris, to North American Aviation, Inc. Center of gravity controller. 3,017,141, 1–16–62, Cl. 244—76.
Ollodort, Morris, to United States of America, Air Force. Ram jet control system. 3,026,673, 3–27–62, Cl. 60—35.6.
Olmon, Wilfrid E., and R. J. Zelinka, to Minneapolis-Honeywell Regulator Co. Soldering technique. 3,046,651, 7–31–62, Cl. 29—498.
Olmsted, Phillip J., and R. H. Starrett, 50% to Goulds Pumps, Inc., and 50% to Pfaudler Permutit Inc. Glass pump. 3,037,458, 6–5–62, Cl. 103—114.
Olmstead, Van D. Ultrasonic fuel and air mixer. 3,016,233, 1–9–62, Cl. 261—81.
Olmsted, Bernie A., and F. R. Cinco, to Package Machinery Co. Electro-hydraulic safety mechanism. 3,020,593, 2–13–62, Cl. 18—30.
Olmsted, Peter B., to Double A Products Co. Valve controlling mechanism. 3,026,856, 3–27–62, Cl. 121—46.5.
Olney, James E., to Tee-Nee Trailer Co. Boat trailer having improved frame means. 3,022,090, 2–20–62, Cl. 280—414.
Olney, Richard B., to Shell Oil Co. Vapor-liquid contacting process using pressure pulsations. 3,050,447, 8–21–62, Cl. 202—39.
Olney, Robert A., to Atlas Chemical Industries, Inc. Spinning of viscose. 3,056,688, 10–2–62, Cl. 106—165.
Olofsson Corp., The: *See*—
Olofsson, Gustav A., and Garnett. 3,020,966.
Olofsson, Gustav A., and D. W. Garnett, to The Olofsson Corp. Automatic weighing machine. 3,020,966, 2–13–62, Cl. 177—61.
Olpin, Henry C., J. Wood, and W. J. Savory, to British Celanese Ltd. Colouring cellulose triacetate textile materials. 3,069,219, 12–18–62, Cl. 8—48.
Olschesky, Arthur G. Adjustable contact member. 3,043,266, 7–10–62, Cl. 119—27.
Olsen, Arne J. C., to The Distillers Co. Ltd. Fermentation vessel and process. 3,057,785, 10–9–62, Cl. 195—95.
Olsen, Bjorn M. Reinforcing brace. 3,034,185, 5–15–62, Cl. 20—95.
Olsen, Chr., Akts. (Corporation): *See*—
Petersen, Poul A. S. 3,060,607.
Olsen, David E., L. E. Richtmyer, C. A. Wilson, and G. J. Myers. Magnetic discriminator. 3,052,827, 9–4–62, Cl. 317—150.
Olsen, Donald B.: *See*—
Bardos, Thomas J., Olsen, and Enkoji. 3,057,865.
Olson, Earl H., to E. I. du Pont de Nemours and Co. Twisting process. 3,069,837, 12–25–62, Cl. 57—157.
Olsen, Ernest R. Piston and ring assembly. 3,031,240, 4–24–62, Cl. 309—7.
Olsen, Everett O., to The Foxboro Co. Inductance varying mechanical adjustor of electrical current. 3,032,705, 5–1–62, Cl. 323—76.

Olsen, Fred Aviation Maintenance Norsk Flyindustri A/S: *See*—
Grundseth, Odd. 3,048,183.
Olsen, Herman L.: *See*—
Bunt, Edgar A., and Olsen. 3,045,481.
Olsen, Horace W. Means for protecting marine structures against the effect of waves. 3,029,606, 4–17–62, Cl. 61—5.
Olsen, Howard E., to General Motors Corp. Control system. 3,033,234, 5–8–62, Cl. 137—623.
Olsen, Orving C.: *See*—
Abbott, Henry H., Martin, Olsen, Previte, and H. J. and J. G. Walsh. 3,037,087.
Olsen, Poul J.: *See*—
Drapeau, Harold B., and Olsen. 3,027,089.
Olsen, Rangwald S.: *See*—
Griffith, James S., Olsen, and Rechter. 3,041,190.
Olsen, Raymond B., to Medical Fabrics Co., Inc. Bandage. 3,033,201, 5–8–62, Cl. 128—156.
Olsen, Sigurd H., and E. M. Fitzgerald. Fishing sinker. 3,069,802, 12–25–62, Cl. 43—44.95.
Olsen, Sydney A.: *See*—
Du Shane, Wallace H., and Olsen. 3,040,596.
Olsen, Tinius, Testing Machine Co.: *See*—
Gruber, Warren M. 3,018,658.
Gruber, Warren M. 3,035,448.
Karpchuk, Sylvester. 3,065,638.
Olson, Albert M., to FMC Corp. Soil tilling apparatus. 3,016,957, 1–16–62, Cl. 172—42.
Olson, Arnold P. Laminated board construction. 3,016,316, 1–9–62, Cl. 154—45.9.
Olson, Cecil: *See*—
Viola, Vito, and Olson. 3,022,947.
Olson, Clifford B. Tractor attached carrier. 3,069,032, 12–18–62, Cl. 214—131.
Olson, Conrad, and H. A. Hoadley, to United-Carr Fastener Corp. Skiving tool. 3,029,549. 4–17–62, Cl. 45—137.
Olson, David C., and R. D. Clifford, to Lockheed Aircraft Corp. Cargo tie-down and suspension apparatus. 3,066,-959, 12–4–62, Cl. 280—179.
Olson, Earl R., and C. M. Chapman, to Resistance Products Co. Film resistor and method of making same. 3,018,198, 1–23–62, Cl. 117—227.
Olson, Edward M. Barn cleaning apparatus. 3,017,008, 1–16–62, Cl. 198—7.
Olson, Elwyn H.: *See*—
Kautz, Murrell F., and Olson. 3,027,865.
Olson, George E.: *See*—
Davis, Roderic A., and Olson. 3,063,038.
Olson, Glen W.: *See*—
Draeger, Albertus G., Bunin, and Olsen. 3,052,520.
Olson, Glennard T.: *See*—
Bunting, Ernest V., and Olson. 3,068,894.
Olson, Gordon L. Fabricated flexible coupling. 3,055,195, 9–25–62, Cl. 64—11.
Olson, Harold E. Vehicle lift attachment. 3,019,858, 2–6–62, Cl. 187—8.75.
Olson, Harold G. Trouser hanger. 3,031,113, 4–24–62, Cl. 223—95.
Olson, Harold J. Valve device actuated by fluid flow. 3,065,-316, 11–20–62, Cl. 200—81.9.
Olson, Henry L., to McGraw-Edison Co. Beverage brewing device. 3,059,092, 10–16–62. Cl. 219—44.
Olson, Hilding M., Jr., to Bell Telephone Laboratories, Inc. Coaxial cavity magnetron. 3,032,680, 5–1–62, Cl. 315—39.61.
Olson, Howard O. Spring-loaded coulter disc. 3,061,018, 10–30–62, Cl. 172—139.
Olson, Irvin: *See*—
Ledingham, Gordon R., Carter, and Olson. 3,046,585.
Olson, John A., and J. A. McNab deceased (E. C. Wynne, administrator) to United Aircraft Corp. Radiator spline and support system. 3,053,510, 9–11–62, Cl. 257—125.
Olson, John E., and W. P. Downey, to Hyster Co. Flow control system for load-handling apparatus. 3,022,773, 2–27–62, Cl. 121—46.
Olson, John H. Powered vehicle controlled by harvesting worker. 3,037,570, 6–5–62, Cl. 180—6.5.
Olson, John W.: *See*—
Volk, Victor F., Eash, and Olson. 3,052,751.
Olson, John W., to Anaconda Wire and Cable Co. Flexible power cable. 3,025,340, 3–13–62, Cl. 174—120.
Olson, Keith M., to Denoyer-Geppert Co. Globe with satellite-orbit demonstrator. 3,052,993, 9–11–62, Cl. 35—46.
Olson, Keith W.: *See*—
Collins, Garry G., Jr., and Olson. 3,019,365.
Lee, Robert A., and Olson. 3,047,764.
Olson, Mack W.: *See*—
Merck, William A., Olson, and Rhodes. 3,029,476.
Olson, Mark W.: *See*—
Ferrell, Wesley, Fournier, and Olson. 3,051,995.
Olson, Merritt W.: *See*—
Cooper, Arthur E., and Olson. 3,054,998.
Olson, Paul E., to Westinghouse Air Brake Co. Manual control valve device. 3,017,900, 1–23–62, Cl. 137—620.
Olson, Paul E., to Westinghouse Air Brake Co. Multi-position fluid motor and control apparatus therefor. 3,031,853, 5–1–62, Cl. 60—97.
Olson, Paul E., to Westinghouse Air Brake Co. Low oil pressure protection apparatus. 3,048,158, 8–7–62, Cl. 123—196.
Olson, Paul E., and E. E. Hewitt, to Westinghouse Air Brake Co. Multi-position manual control valve with step-by-step insuring feature. 3,048,675, 8–7–62, Cl. 200—61.86.
Olson, Ralph H.: *See*—
Abbott, Raymond B., and Olson. 3,024,571.
Olson, Ralph H., to Owens-Illinois Glass Co. Method of controlling the wall thickness of blown glass articles. 3,047,982, 8–7–62, Cl. 49—83.
Olson, Richard J.: *See*—
Lareau, Normau N., and Olson. 3,051,066.
Olson, Robert S.: *See*—
Long, Ray S., Olson, and Surls. 3,067,010.
Olson, Toivo A.: *See*—
Neighorn, Roy G., and Olson. 3,048,861.
Olson, Verland: *See*—
Green, David J., Van Alstyne, Moore, Sanders, Bonness, Noland, and Olson 3,031,658.
Olsson, Billy E., to Malco Mfg. Co. Connector. 3,030,603, 4–17–62, Cl. 339—95.
Olsson, Billy E., to Malco Mfg. Co. Female connector. 3,044,040, 7–10–62, Cl. 339—273.
Olsson, Billy E., and H. B. Kalman, to Malco Mfg. Co. Solder well terminal. 3,060,402, 10–23–62, Cl. 339—242.
Olsson, Billy E., and A. Just, 50% to Malco Mfg. Co., and 50% to Amphenol-Borg Electronics Corp. Terminal. 3,070,772, 12–25–62, Cl. 339—278.
Olsson, Karl A., to Casius Corp. Ltd. Unit receiving means. 3,042,232, 7–3–62, Cl. 214—83.34.
Olsson, Olof B., to Bofors, Aktiebolaget. Wing assembly for missiles. 3,058,422, 10–16–62, Cl. 102—50.
Olsson, Otto Y.: *See*—
Bingham, George H., Jr., and Olsson. 3,016,569.
Bingham, George H., Jr., and Olsson. 3,042,975.
Olsson, Paul: *See*—
Dickinson, Robert C., and Olsson. 3,054,874.
Olstowski, Franciszek: *See*—
Newport, John J., III, Olstowski, and Watson. 3,062,901.
Newport, John J., III, Olstowski, and Watson. 3,067,-263.
Olstowski, Franciszek, to The Dow Chemical Co. Preparation of fluorocarbon nitriles. 3,017,336, 1–16–62, Cl. 204—62.
Olstowski, Franciszek, to The Dow Chemical Co. Preparation of silicon. 3,022,233, 2–20–62, Cl. 204—60.
Olstowski, Franciszek, to The Dow Chemical Co. Preparation of vinylidene fluoride. 3,047,637, 7–31–62, Cl. 260—653.3.
Olstowski, Franciszek, and J. J. Newport III, to The Dow Chemical Co. Preparation of fluorocarbons. 3,033,767, 5–8–62, Cl. 204—62.
Olstowski, Franciszek, and J. J. Newport, III, to The Dow Chemical Co. Preparation of hexafluoroethane and higher fluorocarbons. 3,037,919, 6–5–62, Cl. 204—62.
Olstowski, Franciszek, and J. D. Watson, to The Dow Chemical Co. Preparation of fluoroform. 3,042,727, 7–3–62, Cl. 260—653.
Olswang, Ralph R., to Kamkap, Inc. Ironing table with variable contour. 3,045,373, 7–24–62, Cl. 38—137.
Olswang, Ralph R., to Kamkap, Inc. Igniting device for charcoal grills. 3,046,381, 7–24–62, Cl. 219—32.
Oltion, John, and G. Ludwig. Nursing nipple straw. 3,044,-655, 7–17–62, Cl. 215—11.
Olton, Dirck J., to Norton Co. Coated abrasive back-up pad. 3,019,570, 2–6–62. Cl. 51—195.
Olton, Peter F., to The Cincinnati Milling Machine Co. Temperature control of machine tool. 3,066,578, 12–4–62, Cl. 90—11.
Olton, Peter F., to The Cincinnati Milling Machine Co. Positioning control mechanism for milling machines. 3,066,-782, 12–4–62, Cl. 192—142.
Olver, Terence E.: *See*—
Krakau, Werner S., and Olver. 3,031,632.
Olympia Werke Aktiengesellschaft: *See*—
Bettin, Hubertus. 3,036,175.
Breitling, Wilhelm. 3,054,010.
Breitling, Wilhelm. 3,054,092.
Breitling, Wilhelm, and Heuer. 3,059,845.
Demmel, Anton. 3,062,350.
Demmel, Anton, and Kernchen. 3,049,211.
Hess, Hans. 3,025,942.
Kuhn, Eugen. 3,034,738.
Kuhn, Eugen. 3,037,693.
Kunzke, Hans-Joachim. 3,067,341.
Reichert, Hugo. 3,035,187.
Reichert, Hugo. 3,036,270.
Rielander, Werner. 3,032,167.
Rix, Albert, Marquardt, and Hess. 3,031,056.
Spingies, Erwin, and Rose. 3,044,700.
Thevis, Paul. 3,034,716.
Trumpelmann, Ernst. 3,053,443.
Olympic Screw & Rivet Corp.: *See*—
Kolec, Robert F. 3,017,052.
Kolec, Robert F., and Dunham. 3,065,661.
Luhm, Ralph R. 3,044,340.
Luhm, Ralph R. 3,053,100.
Siebol, George. 3,044,332.
Wilson, Raymond O. 3,019,518.
Olympus Kogaku Kogyo Kabushiki-Kaisha: *See*—
Matsuzai, Soichiro. 3,060,822.
Omack Industries, Inc.: *See*—
Neighorn, Roy G., and Olson. 3,048,861.
O'Maley, James B.: *See*—
Strianese, Bernard V., and O'Maley. 3,024,986.

O'Malley, Charles T. : *See*—
Geerts, Marcellus J., Folkins, and O'Malley. 3,065,056.
Geerts, Marcellus J., and O'Malley. 3,065,057.
O'Malley, John B., to Milier and Co. Plier's type snap fastener attaching machine. 3,022,510, 2–27–62, Cl. 1—50.
O'Malley, John B., to Process Engineers, Inc. Machine for processing mineral material. 3,061,095, 10–30–62, Cl. 209—12.
O'Malley, Robert M. Ellipse-forming compass. 3,065,544, 11–27–62, Cl. 33—27.
O'Malley, William P. Continuous infusion sparging. 3,034,-895, 5–15–62, Cl. 99—51.
O'Mara, Joseph B., to Anaconda Wire & Cable Co. Cable clamp. 3,042,353, 7–3–62, Cl. 248—74.
O'Mara, Richard F. Rotary heat exchanger. 3,020,025, 2–6–62, Cl. 257—79.
Omark Industries, Inc. : *See*—
Broughton, Sidney H., and Erickson. 3,046,557.
Carlton, Raymond R. 3,040,602.
Carlton, Raymond R. 3,045,502.
Graham, Harold J. 3,047,711.
Graham, Harold J. 3,059,095.
O'Meara, David, and S. Isaacs. Bank protecting means. 3,067,700, 12–11–62, Cl. 109—12.
O'Meara, James P. : *See*—
Welch, Elmer S., O'Meara, and Roberts. 3,038,488.
O'Meara, Thomas R., and R. L. Sydnor, to United States of America, Navy. Multigrid vacuum tube multipliers. 3,039,-060, 6–12–62, Cl. 328—160.
Omega Industries, Inc. : *See*—
Martin, Eric. 3,049,788.
O'Mera, Desmond : *See*—
Wilson, Jack W., and O'Mera. 3,067,086.
Omholt, Ray E. Flooring systems. 3,031,725, 5–1–62, Cl. 20—8.
Omietanski, George M., to Union Carbide Corp. Process for preparing bis-silylarylene compounds. 3,053,872, 9–11–62, Cl. 260—448.2.
Onarheim, Thor, to A/S Stord. Apparatus for drying organic proteins. 3,026,786, 3–27–62, Cl. 99—234.
Ondeck, Elmer J., to Supreme Products Corp. Strand chuck. 3,040,775, 6–21–62, Cl. 144—126.
Ondeck, Elmer J., to Supreme Products Corp. Electric hammer. 3,054,464, 9–18–62, Cl. 175—145.
Onder, Kerim, $^{15}/_{100}$ to A. L. Tirico. Radio receivers. 3,018,371, 1–23–62, Cl. 250—20.
Onderzoekingsinstituut Research, N.V. : *See*—
Boerma, Jan A. K. 3,039,998.
Gonsalves, Conrad J. 3,058,151.
Horsten, Henricus B. J. 3,061,573.
Jibben, Bart P. 3,021,303.
Jibben, Bart P. 3,042,653.
Jibben, Bart P., and Overmars. 3,054,772.
Kessler, Jacob C. F., and Spreeuwers. 3,029,226.
Kessler, Jacob C. F., and Spreeuwers. 3,037,956.
Kohlwey, Johann F. 3,048,567.
Levison, Robert, and Hesselink. 3,050,775.
Ondrasik, Gertrude W. Drainage support for steam irons. 3,054,588, 9–18–62, Cl. 248—117.2.
Ondrejka, Albert A. Lightweight recoverable guy anchor. 3,022,873, 2–27–62, Cl. 189—90.
Ondrusek, Steven : *See*—
Takats, Zoltan, and Ondrusek. 3,022,715.
O'Neal, Bert W., and D. G., and J. P. Gorman. Plumbing device. 3,044,173, 7–17–62, Cl. 33—46.
O'Neal, Dale G. : *See*—
O'Neal, Bert W. and D. G., and Gorman. 3,044,173.
Oneal, Glen, Jr. : *See*—
Wyckoff, Harold W., Oneal, and Starr. 3,066,366.
O'Neal, Johnnie W., and M. H. Williams ; said Williams assor. to said O'Neal. Vehicle pusher for vehicle washer. 3,064,-587, 11–20–62, Cl. 104—172.
O'Neil, James E. : *See*—
Easton, Irving D., and O'Neil. 3,069,048.
O'Neil, John A. Fishing lure. 3,020,668, 2–13–62, Cl. 43—42.16.
O'Neil, John J. : *See*—
Colten, Frank P., and O'Neil. 3,056,677.
O'Neil, John K. Signal receiving system. 3,031,570, 4–24–62, Cl. 250—20.
O'Neill, Edward J. : *See*—
Forsthoff, William E., and O'Neill. 3,023,878.
O'Neill, George D., to Sylvania Electric Products Inc. Electron tube. 3,038,098, 6–5–62, Cl. 313—151.
O'Neill, James P., to The Bendix Corp. Sonic treating apparatus. 3,066,686, 12–4–62, Cl. 134—122.
O'Neill, John H. : *See*—
Trener, Thomas E. 3,065,506.
O'Neill, Joseph A. : *See*—
Gammon, Howard M., and O'Neill. 3,034,201.
Gammon, Howard M., and O'Neill. 3,034,840.
O'Neill, Joseph V., and G. Homanick, said Homanick assor. to said O'Neill. Method and apparatus for offshore drilling. 3,063,507, 11–13–62, Cl. 175—8.
O'Neill, Paul J. Method and apparatus for dispensing predetermined quantities of liquid. 3,016,072, 1–9–62, Cl. 141—103.
O'Neill, Paul J., Jr., to Union Machine Co. Fluid dispenser and valve. 3,064,864, 11–20–62, Cl. 222—255.
O'Neill, Philip P., to E. I. du Pont de Nemours and Co. Torsion tube valve. 3,062,239, 11–6–62, Cl. 138—45.
O'Neill, Ralph A. Elevator apparatus. 3,034,666, 5–15–62, Cl. 214—16.1.
O'Neill, William C. : *See*—
Binford, Robert S., O'Neill, and Clark. 3,034,292.
O'Neill, William C., to General Electric Co. Afterburner fuel and nozzle area control. 3,060,683, 10–30–62, Cl. 60—35.6.
O'Neill, William O., to Eastman Kodak Co. Printing inks containing styrene-maleic anhydride copolymer and carbon black. 3,053,779, 9–11–62, Cl. 260—17.5.
134 Woodworth Corp. : *See*—
Gregory, Eric. 3,026,200.
Gregory, Eric, and Epner. 3,053,706.
Ongaro, Theodore, to International Research and Development Corp. Universal drive shaft coupling. 3,054,275, 9–18–62, Cl. 64—9.
O'Nians, Frank A., and M. J. Crumpen, to Marconi's Wireless Telegraph Co. Ltd. Reflector for two linear arrays producing directivity in two angular directions. 3,067,421, 12–4–62, Cl. 343—779.
Oniki, Ben, to Ampex Corp. Signal display systems. 3,031,-525, 4–24–62, Cl. 178—6.6.
Onishi, Tsuneo, and A. Kobayashi, ¾ to Kurashiki Rayon Co., Ltd., and ¼ to Air Reduction Co., Inc. Heated roll. 3,020,383, 2–6–62, Cl. 219—37.
Onkson, George W. : *See*—
Mead, Howard C., and Onksen. 3,065,340.
Onksen, George W., to General Motors Corp. Lamp assembly. 3,064,378, 11–20–62, Cl. 40—204.
On Mark Couplings, Inc. : *See*—
De Cenzo, Herbert A. 3,039,794.
Torres, Jorge. 3,023,030.
Onstad, Ragnar E., M. J. Shoemaker, S. H. Frohmader, and C. B. Rowe, to Research Products Corp. Filter and method of making the same. 3,031,827, 5–1–62, Cl. 55—526.
Ontario Paper Co., The : *See*—
Craig, David, and Logan. 3,054,659.
Ontario Paper Co. Ltd., The : *See*—
Craig, David, and Logan. 3,054,825.
Ontario Research Foundation : *See*—
Read, Dale W. 3,057,927.
Schumacher, Wilhelm W. B. 3,051,833.
Onulak, Eugene W., to The Locke Steel Chain Co. Circuit failure indicator. 3,030,616, 4–17–62, Cl. 340—267.
Onulak, Eugene W., to The Locke Steel Chain Co. Method of making one piece sprocket links. 3,063,237, 11–13–62, Cl. 59—8.
Onulak, Eugene W., to The Locke Steel Chain Co. Chain. 3,068,993, 12–18–62, Cl. 198—176.
Onulak, Eugene W., to The Locke Steel Chain Co. Chain. 3,068,994, 12–18–62, Cl. 198—189.
Onulak, Eugene W., and A. Balazs, to The Locke Steel Chain Co. Press. 3,029,820, 4–17–62, Cl. 308—4.
Onyshkevych, Lubomyr S., and W. F. Kosonocky, to Radio Corp. of America. Multi-state switching systems. 3,056,-039, 9–25–62, Cl. 307—88.
Onyskin, Alexander. Reverse acting magnetic clutch. 3,019,-877, 2–6–62, Cl. 192—90.
Onyx Chemical Co. : *See*—
Wakeman, Reginald L., and Ginilewicz. 3,063,870.
Onyx Oil & Chemical Co. : *See*—
Tesoro, Giuliana C., Valko, and Freiman. 3,070,552.
O-ocho, Katsuyasu. Oscillating chain stitch looper. 3,028,-625, 4–10–62, Cl. 112—199.
Oono, Tadao : *See*—
Hiratsuka, Matsumura, Matsuda, Takagi, Kasawara, Oono, Abe, and Ozawa. 3,038,786.
Oosterhout, Johan C. D., to Texaco Inc. Greases thickened with sodium salts of alkyl mercapto fatty acids. 3,048,-541, 8–7–62, Cl. 252—33.6.
Opderbeck, Fritz, G. Trapp, and G. Worner, to Phrix-Werke A.G. Production of pergamyn. 3,021,253, 2–13–62, Cl. 162—13.
Opel, George E. Safety wheel rim. 3,025,898, 3–20–62, Cl. 152—158.
Opem, John D. : *See*—
Rogers, Russell H., and Opem. 3,047,496.
Operhall, Theodore, and E. E. Kuhary, to Howe Sound Co. Disposable pattern with lower melting external coating. 3,063,113, 11–13–62, Cl. 22—158.
Opie, John. Machines for compressing meat. 3,040,654, 6–26–62, Cl. 100—53.
Opie, Joseph W. : *See*—
Keen, James L., and Opie. 3,032,198.
Opitz, Wolfgang, to Carl Zeiss. Arrangement for the pulse modulation of a beam of charged particles accelerated by high potential. 3,054,962, 9–18–62, Cl. 328—227.
Opladen, Heinz B., to Riley Stoker Corp. Steam generating unit. 3,057,164, 10–9–62, Cl. 60—73.
Opocensky, Willard J. : *See*—
Mershon, Ralph F., and Opocensky. 3,030,012.
Opolion, Arthur. Disposable saucer insert. 3,018,014, 1–23–62, Cl. 215—100.5.
Oppegaard, Assur G., B. Hauge, and H. Aas, to National Lead Co. Process for producing titanium tetrachloride. 3,050,362, 8–21–62, Cl. 23—87.
Oppegard, Alfred L., and H. B. Stevenson, to E. I. du Pont de Nemours and Co. Preparation and use of unsaturated organosilanes. 3,026,213, 2–20–62, Cl. 106—285.
Oppegard, Alfred L., and H. B. Stevenson, to E. I. du Pont de Nemours and Co. Long-chain monoalkylsilanes as water-repellents. 3,067,051, 12–4–62, Cl. 106—285.

Oppel, George U. Photoelastic device for indicating principal strain directions. 3,067,606, 12–11–62, Cl. 73—88.
Oppel, Heinz C. Digging wheel for sugar beet harvesters. 3,017,933, 1–23–62, Cl. 171—58.
Oppel, Heinz C. Sugar beet toppers. 3,059,399, 10–23–62, Cl. 56—121.46.
Oppenheim, Arthur : *See*—
Sanders, Guy J., Rink, and Oppenheim. 3,033,307.
Oppenheim, Ben J., to Victory Engineering Corp. Temperature sensing device. 3,025,706, 3–20–62, Cl. 73—362.
Oppenheim, Ralph. Automatic puppeteer. 3,024,551, 3–13–62, Cl. 40—106.34.
Opperthauser, Orval A., to F. Joseph Lamb Co. Work transfer mechanism. 3,062,353, 11–6–62, Cl. 198—19.
Oprecht, Ulrich, to Adolph Saurer, Ltd. Gas turbine power plant. 3,032,989, 5–8–62, Cl. 60—39.51.
Oprecht, Ulrich, to Adolph Saurer Ltd. Counter-rotating turbine wheels and auxiliary bucket wheel control device. 3,038,307, 6–12–62, Cl. 60—39.16.
Opsahl, Allan W. : *See*—
Bergman, Burton K., Eisenhart, Opsahl, and Wood. 3,051,250.
Opstelten, Johannes J., N. Warmoltz, and J. J. Z. van Zelst, to North American Philips Co., Inc. Device for measuring low presures. 3,066,535, 12–4–62, Cl. 73—398.
Opstelten, Johannes J., N. Warmoltz, and J. J. Z. Van Zelst, to North American Philips Co., Inc. Apparatus for measuring low pressures. 3,066,536, 12–4–62, Cl. 73—398.
Optical Gaging Products Inc. : *See*—
De Boer, Willis, and Conte. 3,055,114.
Optical Measuring Tools Ltd. : *See*—
Dietrich, Cornelius F. 3,055,259.
Opticase Co., The : *See*—
Nathan, Emanuel. 3,025,950.
Nathan, Emanuel. 3,050,181.
Optic-Glass Float Co. : *See*—
Ganz, Harry H. 3,038,375.
Optics Technology, Inc. : *See*—
Jennings, John R. 3,064,129.
Opti-Holding A.G. : *See*—
Porepp, Hans. 3,069,723.
Optimation, Inc. : *See*—
Wolcott, Henry O. 3,067,390.
Optique et Precision de Levallois : *See*—
Morelle, Jules L. E. 3,018,705.
Morelle, Jules L. E. 3,038,399.
Optische Industrie "De Oude Delft," N.V. : *See*—
Becker, Johannes. 3,065,670.
Boersma, Sipko L. 3,042,805.
Bouwers, Albert. 3,044,379.
Griffioen, Jan. 3,040,626.
Jonkers, Cornelis O. 3,015,990.
Optische Werke C. A. Steinheil Sohne G.m.b.H. : *See*—
Kuluk, Wilhelm. 3,031,581.
Opti-Werk G.m.b.H. Co. : *See*—
Porepp, Hans. Re. 25,170.
Optomechanisms, Inc. : *See*—
Brault, Andre R. 3,056,207.
Optron Corp. : *See*—
Hotham, Geoffrey A. 3,033,987.
O'Quinn, Arthur M. : *See*—
Kile, Stephen L., and O'Quinn. 3,048,216.
O'Quinn, Jackson H. Wheeled tractor construction. 3,035,-651, 5–22–62, Cl. 180—6.2.
Oranger, John L. Electric lamp. 3,041,447, 6–26–62, Cl. 240—81.
Oravec, John J., to Federal Pacific Electric Co. Circuit breaker or switch having locking provision. 3,022,391, 2–20–62, Cl. 200—44.
Oravisual Co., Inc. : *See*—
Guth, Chester K. 3,015,906.
Orbach, Harry K., to MHD Research, Inc. Method and apparatus for effecting gas-stabilized electric arc reactions. 3,042,830, 7–3–62, Cl. 313—231.
Orbit Valve Co. : *See*—
Blevans, Don W. 3,039,734.
Orbom, Orville E., J. B. Murtland, Jr., and F. J. Schoepf, to General Electric Co. Automatic control system for rolling mills and adjustable dies. 3,015,974, 1–9–62, Cl. 80—56.
Orchard, Peter F., and K. W. Clark, to Bristol Siddeley Engines Ltd. Combustion chambers. 3,034,297, 5–15–62, Cl. 60— 39 65.
Orcutt, Donald B., to Mite Pipe Ram Co. Pipe ram. 3,022,-042, 2–20–62, Cl. 254—29.
Orcutt, Donald E., to American Cyanamid Co. Surgical needles and manufacture of same. 3,038,475, 6–12–62, Cl. 128—339.
Ord, Geoffrey, and P. L. Lewis, to National Research Development Corp. Two-state electronic circuits. 3,031,587, 4–24–62, Cl. 307—88.5.
Ordahl, Douglas D. : *See*—
Capener, Erwin L., Ordahl, and Sheffler. 3,048,076.
Ordas, Eugene P., to Velsicol Chemical Corp. Insecticide formulations. 3,062,709, 11–6–62, Cl. 167—30.
Ordorica, Miguel A., to Willys Motors, Inc. Independent wheel suspension. 3,042,133, 7–3–62, Cl. 180—43.
O'Rear, J. D. Game apparatus. 3,042,400, 7–3–62, Cl. 273—1.
Oregon Metallurgical Corp. : *See*—
Poole, Henry G., and Abraham. 3,053,919.

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Kurth, Ervin F. Re. 25,135.
O'Reilly, Donald E., to Gulf Research & Development Co. Borehole logging method and apparatus. 3,020,469, 2–6–62, Cl. 324—5.
O'Reilly, Edward J., to The C. E. Ward Co. Method of making mortar board cap. 3,018,487, 1–30–62, Cl. 2—192.
O'Reilly, Royal V., to Colorsound Mfg. Co. Inc. Apparatus for translating sound into correlated physical effects. 3,038,061, 6–5–62, Cl. 240—3.1.
O'Reilly, Wallace M., to Jersey Production Research Co. Completion and working over of wells. 3,032,104, 5–1–62, Cl. 166—35.
O'Reilly, Wallace M., to Jersey Production Research Co. Multiple completion of wells. 3,047,070, 7–31–62, Cl. 166—114.
Orel, Karl : *See*—
Storsand, Bjarne, and Orel. 3,059,166.
Orelind, John R., ½ to R. P. Orelind and ½ to S. A. Orelind. Bundle tying method and apparatus. 3,038,403, 6–12–62, Cl. 100—34.
Orelind, Robert P. : *See*—
Orelind John R. 3,038,403.
Orelind, Sylvia A. : *See*—
Orelind, John R. 3,038,403.
Orem, Theodore H., to United States of America, Commerce. Method for the growth of preferentially oriented single crystals of metals. 3,060,065, 10–23–62, Cl. 148—1.6.
Orenberg, Arthur, to National Co., Inc. Frequency control apparatus for an atomic beam tube. 3,021,491, 2–13–62, Cl. 331—3.
Orenberg, Arthur, to National Co., Inc. Frequency control apparatus for an atomic beam tube. 3,042,878, 7–3–62, Cl. 331—3.
Orenda Engines Ltd. : *See*—
Klompas, Nicholas. 3,019,035.
Orendorff, John W. : *See*—
Simpson, Vinson R., and Orendorff. 3,047,077.
Oreskey, George F. Bait projecting gun. 3,059,630, 10–23–62, Cl. 124—27.
Organ Supply Corp. : *See*—
Durst, Carl F. and F. R. 3,058,383.
Organon Inc. : *See*—
Arens, Josef F., Bos, and Vleregge. 3,030,359.
De Jongh, Hendrik P., and Szpilfogel. 3,064,014.
Duyvene de Wit, Erik. 3,016,388.
Hewett, Colin L. 3,026,318.
Schönemann, Karl H., and De Jongh. 3,047,592.
Siegmann, Cornelis M., and van der Burg. 3,053,860.
Thompson, Kenneth W., Price, and Lewin. 3,065,156.
Van der Burg, Willem J. 3,047,593.
Van der Burg, Willem J. 3,053,861.
Veer, Willem L. C. 3,033,877.
Organon, N.V. : *See*—
Szpilfogel, Stefan A., Mijs, De Flines, and van der Waard. 3,031,445.
Orgill, Heber L., to Thompson Ramo Wooldridge Inc. Metal gathering process and articles produced thereby. 3,021,421, 2–13–62, Cl. 219—150.
Origer, John P., Jr. : *See*—
Novak. Charles, Meadows, Origer and Robideaux. 3,032,968.
Origoni, Victor E. : *See*—
Fox, Sidney, Bilcharz, and Origoni. 3,021,346.
Origoni, Victor E., and R. Winterbottom, to American Cyanamid Co. Recrystallization of demethylchlortetracycline. 3,023,239, 2–27–62, Cl. 260—559.
Origoni, Victor E., N. E. Rigler, and J. J. Goodman, to American Cyanamid Co. Method of preparing $\Delta^{4,6}$-3-keto steroids of the pregnane series. 3,047,468, 7–31–62, Cl. 195—51.
Origoni, Victor E., and M. Marx, to American Cyanamid Co. New method of hydroxylating steroids and products resulting therefrom. 3,060,175, 10–23–62, Cl. 260—239.55.
Oriskany Garage, Inc. : *See*—
Klosek, Joseph, and Zorn. 3,043,458.
Orlacchio, Anthony W., to Gulton Industries, Inc. Accelerometer. 3,045,131, 7–17–62, Cl. 310—8.4.
Orlando, John B., A. M. Ruggiero, and M. Coppola, to Defiance Button Machine Co. Button covering machine. 3,067,639, 12–11–62, Cl. 79—5.
Orlin, William J., to Amrad, Inc. Hydraulically simulated wind tunnel. 3,017,769, 1–23–62, Cl. 73—147.
Orlin, William J., to United States of America, Navy. Inlets. 3,043,102, 7–10–62, Cl. 60—35.6.
Orlins, Martin A., to Rheem Mfg. Co. Method of forming interior-lined sheet metal containers. 3,019,753, 2–6–62, Cl. 113—120.
Orloff, Daniel L. : *See*—
Keating, Raymond J., Orloff, and Pernot. 3,025,943.
Orloff, George, to Normalair Ltd. Servo valves and servo valve systems. 3,027,917, 4–3–62, Cl. 137—623.
Orloff, Harold D., and F. X. Markley, to Ethyl Corp. Phenyl phosphate compositions. 3,038,791, 6–12–62, Cl. 44—69.
Orloff, Harold D., and F. X. Markley, to Ethyl Corp. Dimethyl-(monochlorotolyl)-phosphate as a gasoline additive. 3,055,747, 9–25–62, Cl. 44—69.
Orloff, Harold D., G. G. Knapp, and C. J. Worrel, to Ethyl Corp. Antioxidants. 3,060,121, 10–23–62, Cl. 252—48.2.
Orloff, Maurice. Patio cover. 3,052,290, 9–4–62, Cl. 160—81.

Orloff, William, and B. Reich, to United States of America, Army. Transistor class C amplifier. 3,068,424, 12–11–62, Cl. 330—40.
Orly Lite, Inc. : *See*—
Shwisha, Haim. 3,054,088.
Ormerod, Ellis. Floor cleaner. 3,054,132, 9–18–62, Cl. 15—535.
Ormond, Alfred N. Chain switch. 3,056,892, 10–2–62, Cl. 307—132.
Ormonoterapia Richter S.p.A. : *See*—
De Ruggieri, Pietro. 3,043,833.
De Ruggieri, Pietro. 3,062,847.
De Ruggieri, Pietro. 3,070,614.
De Ruggieri, Pietro, and Ferrari. 3,043,832.
De Ruggieri, Pietro, Ferrari, and Gandolfi. 3,029,262.
Toccacelli, Nazzareno. 3,016,331.
Orner, Allan, to The Magnavox Co. Card processing apparatus. 3,067,933, 12–11–62, Cl. 235—61.11.
Orner, Thomas J. : *See*—
High, Alan V., Orner, and Rittenhouse. 3,062,481.
Ornitz, Martin N., to Blaw-Knox Co. Furnace trays. 3,025,-045, 3–13–62, Cl. 263—47.
Ornitz, Nathaniel B., to Blaw-Knox Co. Composite carbonaceous member for furnace conveyor units or the like. 3,037,756, 6–5–62, Cl. 263—6.
Oronzio de Nora Impianti Elettrochimici : *See*—
De Nora, Vittorio. 3,042,602.
Gallone, Patrizio. 3,057,984.
Messner, Georg. 3,068,165.
Oros, John J., to Air-Mite Devices, Inc. Valve structure and linkage therefor. 3,063,465, 11–13–62, Cl. 137—270.
Oroshnik, Jesse : *See*—
Many, Abraham, and Oroshnik. 3,039,056.
Oroshnik, William, to Ortho Pharmaceutical Corp. 2-alkylamino-4-aminopyrimidine. 3,048,587, 8–7–62, Cl. 260—256.4.
O'Rourke, Dennis C. : *See*—
White, George D., and O'Rourke. 3,070,420.
O'Rourke, Innis, Jr. : *See*—
Bergesen, Howard, and O'Rourke. 3,038,231.
O'Rourke, John R., Jr., to Bostitch, Inc. Article feeding device. 3,067,851, 12–11–62, Cl. 198—24.
O'Rourke, Mary J. : *See*—
Anderson, Richard L., and O'Rourke. 3,046,459.
Anderson, Richard L., and O'Rourke. 3,067,387.
Orr, Carrol A. : *See*—
Cobb, Clifton A., Orr, and Robandt. 3,019,814.
Cobb, Clifton A., Orr, and Robandt. 3,045,696.
Cobb, Clifton A., Wiessner, and Orr. 3,016,147.
Orr, Clifford M. : *See*—
Moyer, Frederick D., and Orr. 3,057,507.
Orr, Donald. Beverage dispenser. 3,056,559, 10–2–62, Cl. 239—306.
Orr, Edgar K. : *See*—
Bopp, Edward O., and Taylor. 3,028,910.
Bopp, Edward O., and Taylor. 3,061,005.
Orr, Ernest G., to Philco Corp. Clothes drying apparatus with moisture condensing means. 3,018,562, 1–30–62, Cl. 34—75.
Orr, James C. : *See*—
Bowers, Albert, Edwards, and Orr. 3,051,730.
Bowers, Albert, Edwards, and Orr. 3,055,916.
Bowers, Albert, Edwards, and Orr. 3,055,920.
Bowers, Albert, Edwards, and Orr. 3,057,883.
Bowers, Albert, Edwards, and Orr. 3,062,849.
Bowers, Albert, and Orr. 3,053,859.
Bowers, Albert, and Orr. 3,053,862.
Orr, James C., and A. Bowers, to Syntex S.A. Pyrrolo(3',2'-2,3)-androstanes and process therefor. 3,032,551, 5–1–62, Cl. 260—239.5.
Orr, James P., and F. A. Cox, to Ryan Aeronautical Co. High energy metal forming apparatus. 3,068,822, 12–18–62, Cl. 113—44.
Orr, Leighton E., to Pittsburgh Plate Glass Co. Method of producing coated glass articles. 3,019,135, 1–30–62, Cl. 117—211.
Orr, Robert F., to Toledo Scale Corp. Weighing system. 3,027,957, 4–3–62, Cl. 177—211.
Orr, Robert F., to Toledo Scale Corp. Preset circuit for a counter. 3,035,767, 5–22–62, Cl. 235—132.
Orr, William J. : *See*—
Chapin, Donald A., Hassan, and Orr. 3,053,026.
Orr, Willis P., to Jersey Production Research Co. Liquid chemical injector for use in wells. 3,020,961, 2–13–62, Cl. 166—165.
Orrange, Robert J., to International Business Machines Corp. Analog-to-digital converter system. 3,025,511, 3–13–62, Cl. 340—347.
Orrell, Walter. Means or appliances for use in the disinfecting of telephones. 3,018,337, 1–23–62, Cl. 179—185.
Orsage, Richard L. : *See*—
Lo, Chien-Pen, and Orsage. 3,017,416.
Orser, Lawrence D., to Chamberlain Corp. Reversely tipping drain board. 3,028,741, 4–10–62, Cl. 68—254.
Orshansky, Elias, Jr. : *See*—
Uphues, Gerard T., Orshansky, and Soddy. 3,024,872.
Orshansky, Elias, Jr., to American Seal-Kap Corp. of Delaware. Rail anchor. 3,027,093, 3–27–62, Cl. 238—327.
Orshansky, Elias, Jr., to The New York Air Brake Co. High pressure hydraulic pump or motor. 3,044,412, 7–17–62, Cl. 103—161.
Orsi, Ernest V., to American Cyanamid Co. Tissue culture chamber. 3,065,669, 11–27–62, Cl. 88—40.
Orsini, Anthony : *See*—
Mapes, Daniel, Orsini, and Heidersberger. 3,055,553.
Orsini, Rene. Volumetrically deformed flat sachet having at least one flat face. 3,063,614, 11–13–62, Cl. 229—22.
Orsino, Joseph A., and E. J. Dunn, Jr., to National Lead Co. Silica containing battery plates. 3,017,447, 1–16–62, Cl. 136—26.
Orsino, Joseph A., and E. J. Dunn, Jr., to National Lead Co. Composite lead-oxide-silica particles. 3,050,408, 8–21–62, Cl. 106—299.
Orsolini, Frank D. Accordion attachment for treble grill. 3,059,517, 10–23–62, Cl. 84—376.
Orsymonde, Societe Anonyme : *See*—
Lafon, Louis. 3,030,271.
Ort, Frank G. : *See*—
Mears, Merton D., and Ort. 3,059,565.
Ort, Morris R., and W. H. Yanko, to Monsanto Chemical Co. Stabilization of organic coolants and moderators in neutronic reactors. 3,063,927, 11–13–62, Cl. 204—193.2.
Ort, William, Wall Bird tape coating and dispensing device. 3,023,728, 3–6–62, Cl. 118—32.
Ortegren, Herman A., to Federal-Mogul-Bower Bearings, Inc. Retainer ring and roller bearing assembly and method and machine for assembling roller bearings. 3,028,658, 4–10–62, Cl. 29—148.4.
Ortel, William C. G. : *See*—
Backman, Gustav A., and Ortel. 3,018,048.
Ortgies, Raymond C., and R. A. Palmore, to American Air Filter Co., Inc. Dust collector apparatus. 3,063,221, 11–13–62, Cl. 55—229.
Orth, Joseph P. Mathematical relationship comparison device. 3,024,540, 3–13–62, Cl. 35—31.
Orth, Stephan R. : *See*—
McLean, Murray G., Orth, and Doble. 3,041,979.
Orthner, Ludwig : *See*—
Nolte, Friedrich, Klug, Orthner, and Herzberg. 3,035,-036.
Reuter, Martin, and Orthner. 3,030,421.
Orthner, Ludwig, H. Herzberg, and H. H. Frey, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of plasticized polymers of vinyl chloride or plasticized polymers of vinylidene chloride. 3,022,263, 2–20–62, Cl. 260—45.5.
Orthner, Ludwig, H. Herzberg, and F. Landauer. Process for the preparation of chlorinated and sulfochlorinated polyolefins. 3,022,276, 2–20–62, Cl. 260—79.3.
Ortho Pharmaceutical Corp. : *See*—
Levine, Philip. 3,048,582.
Millman, Nathan. 3,034,958.
Oroshnik, William. 3,048,587.
Singher, Heron O., and Egan. 3,060,102.
Singher, Heron O., and Zuckerman. 3,016,337.
Orthopedic Frame Co. : *See*—
Stryker, Homer H. 3,034,152.
Orthuber, Richard K. : *See*—
Rudnick, Paul, and Orthuber. 3,040,177.
Orthuber, Richard K., to International Telephone and Telegraph Corp. Solid-state radiation amplifier. 3,054,900, 9–18–62, Cl. 250—213.
Orthwin, Sidney O. Method of and means for making bound garment openings. 3,035,745, 5–22–62, Cl. 223—1.
Orthwin, Sidney O. Gauge for sewing and needle work. 3,068,580, 12–18–62, Cl. 33—143.
Ortiz, Andre A., to The Western Union Telegraph Co. Line feed detector. 3,038,962, 6–12–62, Cl. 178—42.
Ortiz, Ralph G., and C. Grant, and M. L. Markel. Ceiling light heater. 3,068,341, 12–11–62, Cl. 219—39.
Ortloff, John E., to Jersey Production Research Co. Thermodynamic packer. 3,053,321, 9–11–62, Cl. 166—179.
Ortmark, Helge A. : *See*—
Axlid, Sven A., and Ortmark. 3,024,816.
Ortner Freight Car Repair Co., The : *See*—
Ortner, Robert C. 3,043,241.
Ortner, Robert C., to The Ortner Freight Car Repair Co. Supplementary spring system for railroad cars. 3,043,241, 7–10–62, Cl. 105—199.
Ortoli, Claire, and R. Reverchon, to Rhone-Poulenc, Societe des Usines Chimiques. γ-cyclohexylcrotonaldehyde. 3,031,-507, 4–24–62, Cl. 260—598.
Orton, John W. : *See*—
Travis, Ernest M. 3,023,646.
Orullian, Alma : *See*—
Dale, Allan L., Orullian, and Pope. 3,051,433.
Orwig, Burnham R. : *See*—
Barkman, Aaron, Fujimoto, and Orwig. 3,050,263.
Barkman, Aaron, Fujimoto, and Orwig. 3,055,600.
Orwin, Olaf J. B., to Fisher & Ludlow Ltd. Roller supports for conveyor belts. 3,042,187, 7–3–62, Cl. 198—192.
Orwin, Olaf J. B., to Fisher & Ludlow Ltd. Pulleys, rollers and other wheel-like members. 3,064,796, 11–20–62, Cl. 198—192.
Orwin, Olaf J. B., to Fisher & Ludlow Ltd. Conveyor systems. 3,065,714, 11–27–62, Cl. 104—88.
Osa, Tetsuro : *See*—
Higuchi, Kozo, Tsuyuguchi, Osa, and Ando. 3,030,412.
Osaka Kinzoku Kogyo Co., Ltd. : *See*—
Kageyama, Ikuzo, and Nakanishi. 3,041,188.
Osaka, Matajiro : *See*—
Ishino, Seizo, and Osaka. 3,032,394.
Osawa, Hirosaburo. Process for cleaning coal by dense medium. 3,031,074, 4–24–62, Cl. 209—12.

Osban, William R. : *See*—
Leins, Richard W., and Osban. 3,037,369.

Osbond, John M., and P. G. Philpott, to Hoffmann-La Roche Inc. Unsaturated aliphatic alcohols. 3,031,512, 4–24–62, Cl. 260—632.

Osbond, John M., P. G. Philpott, and J. C. Wickens, to Hoffmann-La Roche Inc. Unsaturated aliphatic compounds and process for the manufacture thereof. 3,033,884, 5–8–62, Cl. 260—413.

Osborn, Alden E. Floating gasket mechanism. 3,053,586, 9–11–62, Cl. 308—36.1.

Osborn, Charles W., and R. F. Kleinschmidt, to Phillips Petroleum Co. Method of killing plants. 3,022,152, 2–20–62, Cl. 71—2.7.

Osborn, Frank W. : *See*—
Lynch, John P., Osborn, and Hessler. 3,042,560.

Osborn, Howard, and J. D. Gould, to The Thrissell Engineering Co. Ltd. Letter sorting machines. 3,018,009, 1–23–62, Cl. 214—11.

Osborn, John A. : *See*—
Pavlovic, Dusan, Foster, and Osborn. 3,058,857.

Osborn, John A., and R. C. Hall, to Westinghouse Electric Corp. Single crystals of brittle materials. 3,027,281, 3–27–62, Cl. 148—1.6.

Osborn, Keaton R. : *See*—
Hendricks, Robert W., and Osborn. 3,056,170.

Osborn, Myron D. : *See*—
Hopkins, Thomas R., Osborn, and Francis. 3,016,374.

Osborn, Nornia R. : *See*—
Osborn, Wilford F., and N. R. 3,048,294.

Osborn, Oliver, C. W. McCutchen, and J. R. Hradel, to The Dow Chemical Co. Magnesium hydride explosive compositions. 3,053,710, 9–11–62, Cl. 149—45.

Osborn, Peter E., to Automatic Electric Laboratories, Inc. Memory for use in electronic telephone system. 3,046,348, 7–24–62, Cl. 179—15.

Osborn, Ralph C., to Bissell Inc. Combination vacuum cleaner and floor scrubber. 3,029,461, 4–17–62, Cl. 15—320.

Osborn, Raymond L. : *See*—
Azelickis, Alexis, Lanford, and Osborn. 3,024,423.

Osborn, Samuel & Co. Ltd. : *See*—
Hughes, Roderick F., and Smith. 3,028,168.

Osborn, Scott G., and D. H. Amick. Hold-down saddle for tension cables. 3,044,792, 7–17–62, Cl. 280—11.35.

Osborn, Wilford F., and N. R. Osborn. Insulated bottle. 3,048,294, 8–7–62, Cl. 215—13.

Osborn, William G. : *See*—
Mallanik, Allan R., Neaderland, Osborn, and Raila. 3,053,930.

Osborn, William G., to Burndy Corp. Run and tap connector. 3,022,370, 2–20–62, Cl. 174—71.

Osborn, William G., to Burndy Corp. Clamp connector. 3,045,205, 7–17–62 Cl. 339—247.

Osborn, William G., to Burndy Corp. Connector. 3,065,452, 11–20–62, Cl. 339—274.

Osborn Mfg. Co., The : *See*—
Bonglovanni, John C., and Peterson. 3,056,986.
Brauer, Edwin H., Jr. 3,017,647.
Brauer, Edwin H., Jr. 3,044,090.
Brauer, Edwin H., Jr., and Janke. 3,024,483.
Brauer, Edwin H., Jr., and Janke. 3,026,115.
Charvat, Vernon K. 3,044,227.
Charvat, Vernon K. 3,044,833.
Charvat, Vernon K. 3,068,758.
Miller, Leon F. 3,025,578.
Nelson, Brooks E. 3,036,323.
Peterson, Ruben O. 3,016,554.
Peterson, Ruben O. 3,026,219.
Peterson, Ruben O. 3,040,608.
Peterson, Ruben O. 3,043,063.
Peterson, Ruben O. 3,043,064.
Peterson, Ruben O. 3,065,481.
Peterson, Ruben O. 3,068,504.

Osborne, Albert H., to The Bendix Corp. Adjustor locking means. 3,044,808, 7–17–62, Cl. 287—53.

Osborne, Andrew G. : *See*—
Thomas, John W., and Osborne. 3,039,247.

Osborne Associates : *See*—
Osborne, Philip S. 3,057,335.

Osborne, Charles V. Pivotal sub-frame arrangement for mine tractor. 3,053,547, 9–11–62, Cl. 280—112.

Osborne, Fred H. : *See*—
Arsem, Alvan D., Osborne, Laurien, and Flateau. 3,069,-938.

Osborne, Fred H., to The Wurlitzer Co. Tamperproof coin box. 3,016,185, 1–9–62, Cl. 232—15.

Osborne, Fred H., to The Wurlitzer Co. Resonant reed relay. 3,064,097, 11–13–62, Cl. 200—90.

Osborne, Fred H., R. S. Tuttle, and J. H. Riggs, to The Wurlitzer Co. Selector for automatic phonographs. 3,050,309, 8–21–62, Cl. 274—10.

Osborne, John B., to The M. W. Kellogg Co. Unitary fluidized apparatus with reactor superposed on regenerator. 3,053,643, 9–11–62, Cl. 23—288.

Osborne, John B., to The M. W. Kellogg Co. Method and apparatus for cracking hydrocarbons. 3,063,932, 11–13–62, Cl. 208—74.

Osborne, Le Roy M., to A. O. Smith Harvestore Products, Inc. Method and apparatus for forming arches in storage structures. 3,024,923, 3–13–62, Cl. 214—17.

Osborne, Philip S., to Osborne Associates. Preinduction means and method for treating a fuel air mixture. 3,057,-335, 10–9–62, Cl. 123—119.

Osborne, Robert E., and M. E. Powell, to Knudsen Creamery Co. of California. Method and apparatus for washing and cooling cheese curd. 3,044,863, 7–17–62, Cl. 31—89.

Osborne, Robert J. : *See*—
Linville, Robert G., Osborne, and Smart. 3,039,999.

Osborne, William B., ½ to G. A. Gust, and ½ to R. G. Irish. One-way brake. 3,021,925, 2–20–62, Cl. 188—82.8.

Osborne, William J. : *See*—
Emmerling, Anson A., Kaufman, Osborne, and Steenrod. 3,023,262.

Osborne, William L. Voltage regulator. 3,019,368, 1–30–62, Cl. 315—96.

Osbrink, R. H., Mfg. Co. : *See*—
Osbrink, Raymond H. 3,028,666.

Osbrink, Raymond H., to R. H. Osbrink Mfg. Co. Thin-walled hollow casting and method of making the same. 3,028,666, 4–10–62, Cl. 29—527.

Osburn, Albert R., to Curtis Automotive Devices, Inc. Resonant intermittent combustion device. 3,052,094, 9–4–62, Cl. 60—39.14.

Osburn, Carl L., Jr., to Phillips Petroleum Co. Safety system. 3,057,695, 10–9–62, Cl. 23—259.5.

Osburn, John G. : *See*—
Zankl, Frank, and Osburn. 3,016,804.

Oschell, Robert G. : *See*—
Hannas, Paul V., and Oschell. 3,027,840.

Oschmann, Ronald G., to Daystrom, Inc. Automatic gain control circuit. 3,030,504, 4–17–62, Cl. 250—20.

Oscoz Sanchez, Pascual J. M. Folding tables. 3,029,114, 4–10–62, Cl. 311—63.

Osdal, Le Verne K., to E. I. du Pont de Nemours and Co. Aqueous coating composition comprising polytetrafluoroethylene, polyorganosiloxane and an acrylic tripolymer and substrata coated therewith. 3,062,764, 11–6–62, Cl. 260—29.3.

Osder, Stephen S., to Sperry Rand Corp. Radio beam coupler. 3,038,156, 6–5–62, Cl. 343—107.

Osder, Stephen S., to Sperry Rand Corp. Automatic approach system for aircraft. 3,058,699, 10–16–62, Cl. 244—77.

Osen, Ralph T. : *See*—
Myck, Edward A., and Osen. 3,022,641.

Osen, Ralph T., to Minneapolis-Honeywell Regulator Co. Control apparatus. 3,050,013, 8–21–62, Cl. 218—20.

Osenberg, Werner, to Bisterfeld & Stolting. Grinding wheel. 3,023,551, 3–6–62, Cl. 51—207.

Osenberg, Werner, to Bisterfeld & Stolting. Face grinding wheel. 3,026,655, 3–27–62, Cl. 51—209.

Osgan, Maseh, to Hercules Powder Co. Polymerization of olefins with catalysts of metal alkyl and cyclopentadienyl vanadium oxidihalides. 3,052,660, 9–4–62, Cl. 260—88.2.

Osgood, Charles F., to Joy Mfg. Co. Mineral disintegrating head mechanism. 3,050,295, 8–21–62, Cl. 262—29.

Osgood, Charles F., to Joy Mfg. Co. Reversible dual rotation mechanism for rock drills. 3,059,618, 10–23–62, Cl. 121—7.

Osgood, Charles F., to Joy Mfg. Co. Mining and loading apparatus having a collapsible disintegrating head. 3,062,-518, 11–6–62, Cl. 262—9.

Osgood, Charles F., to Joy Mfg. Co. Mining and loading machine having pivotally mounted rotary disintegrating mechanism. 3,062,519, 11–6–62, Cl. 262—19.

Osgood, Charles F., to Joy Mfg. Co. Cutter bit and support therefor. 3,063,691, 11–13–62, Cl. 262—33.

Osgood, Charles F., to Joy Mfg. Co. Drilling, core cutting and dislodging head for mining machines. 3,064,958, 11–20–62, Cl. 262—9.

Osgood, Charline R. Basic shoe unit. 3,038,240, 10–16–62, Cl. 36—2.5.

Osgood, Edmond R. : *See*—
Richards, Roger G., and Osgood. 3,015,653.

Osgood, Richard E., to Boeing Airplane Co. Contamination meter and process for detecting contamination. 3,050,987, 8–28–62, Cl. 73—61.

O'Shaughnessy, Marion T., to American Viscose Corp. Process of making space-dyed yarn. 3,049,397, 8–14–62, Cl. 18—54.

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Oshima, Yasuo : *See*—
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Osmalov, Jerome S. : *See*—
Hunter, Walker F., Jr., and Osmalov. 3,038,209.

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Osmundsen, Norman K., and P. W. Bogner, to Westinghouse Electric Corp. Excess voltage protective device. 3,064,164, 11–13–62, Cl. 317—66.

Ospenson, Joseph N. : *See*—
Kohn, Gustave K., Moore, and Ospenson. 3,062,707.
Kohn, Gustave K., Moore, and Ospenson. 3,062,867.
Moore, Joseph E., Ospenson, and Kohn. 3,062,865.
Moore, Joseph E., Ospenson, and Kohn. 3,062,866.
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Ospenson, Joseph N., G. K. Kohn, and J. E. Moore, to California Research Corp. M-(1-methylbutyl)phenyl n-methylcarbamate. 3,062,864, 11–6–62, Cl. 260—479.

Ospenson, Joseph N., G. K. Kohn, and J. E. More, to California Research Corp. M-(methylpentyl)phenyl n-methylcarbamate. 3,066,163, 11–27–62, Cl. 260—479.
Osrow, Harold: *See*—
Osrow, Leonard and H. 3,052,911.
Osrow, Leonard and H., to Osrow Products Co., Inc. Floor waxing machine. 3,052,911, 9–11–62, Cl. 15—533.
Osrow Products Co., Inc.: *See*—
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Ossenbrink, Wilhelm, to Chemische Fabrik Kalk G.m.b.H. Material crushing apparatus. 3,063,648, 11–13–62, Cl. 241—235.
Ossenbrunner, Armin: *See*—
Geiger, Julius, Ossenbrunner, and Coenen. 3,018,177.
Ossenbrunner, Armin, and H. Klockgether, to AGFA Aktiengesellschaft. Photographic filter and antihalation layers. 3,022,171, 2–20–62, Cl. 96—84.
Ossenbrunner, Armin, H. Schnell, H. Klockgether, J. Geiger, and J. Freier, to Agfa Aktiengesellschaft. Photographic film. 3,023,101, 2–27–62, Cl. 96—87.
Ossenbrunner, Armin, H. Klockgether, and P. Kruck, to Agfa Aktiengesellschaft. Photographic element having polycarbonate sublayer. 3,025,163, 3–13–62, Cl. 96—87.
Ossenkop, Robert J.: *See*—
Jackson, John, and Ossenkop. 3,029,572.
Osswald, Bernhard O. P., to Ford Motor Co. Multiple speed power transmission mechanism. 3,040,595, 6–26–62, Cl. 74—333.
Osswald, Hannes E. and O. A. B., to Highland Supply Corp. Means and methods for metalizing films and sheet materials. 3,044,438, 7–17–62, Cl. 118—49.1.
Osswald, Otto A. B.: *See*—
Osswald, Hannes E. and O. A. B. 3,044,438.
Osswald, Otto A. B., and E. H. Weder, ½, to Highland Supply Corp. Portable collapsible artificial Christmas trees. 3,030,720, 4–24–62, Cl. 41—11.
Ossyra, Robert H.: *See*—
Mosher, Robert A., and Ossyra. 3,060,687.
Ost, Friedrich: *See*—
Rosenbaum, Kurt, Bell, and Ost. 3,049,162.
Ost, Stanley B., and B. Dzula, to International Telephone and Telegraph Corp. Party line substation identification system. 3,025,354, 3–13–62, Cl. 179—17.
Ostby, Christian A., Jr., to United States Rubber Co. Waterproof garment and method of making. 3,026,225, 3–20–62, Cl. 154—50.
Ostdiek, Francis R., to United States of America, Navy. Lifting sling. 3,021,167, 2–13–62, Cl. 294—86.
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Ostendorf, Carl J.: *See*—
Hazleton, Merrill W., and Ostendorf. 3,041,963.
Oster, Frank, and S. L. Rosenberg, to Telectro Industries Corp. Means for transmitting video information over transmission lines. 3,061,670. 10–30–62, Cl. 178—6.8.
Oster, Gerald, to Polaroid Corp. Photographic products, processes, and compositions. 3,019,104, 1–30–62, Cl. 96—29.
Oster, John, Mfg. Co.: *See*—
Blachly, Donald L. 3,032,672.
Neff, Gene M. 3,043,294.
St. Charles, Gilbert L. 3,023,332.
Oster, Thomas H., to Ford Motor Co. Alternator. 3,054,903, 9–18–62, Cl. 290—1.
Osterberg, Arnold C., and C. E. Rauh III, to American Cyanamid Co. Therapeutic composition containing 4,6-dimethyl-3-pyridazone and process of inducing hypnosis and tranquilization therewith. 3,053,731, 9–11–62, Cl. 167—52.
Osterberg, Arnold E., to Abbott Laboratories. 1-arginine-1-glutamate intravenous therapy of hepatic coma ammonia intoxication. 3,020,201, 2–6–62, Cl. 167—65.
Osterberg, Harold A.: *See*—
Brown, John E., and Osterberg. 3,058,270.
Osterhoudt, Harry A., to Perfection Automotive Products Corp. Coiled spring reinforcing clip. 3,034,777, 5–15–62, Cl. 267—28.
Osterlin, Hilding. Method of removing, with the use of water, soot and like deposits which adhere more or less fixedly to the walls of boiler flues, and apparatus for practising the method. 3,056,700, 10–2–62, Cl. 134—17.
Osterloh, Hans, W. Vossen, and W. Zumbroich, to Mannesmann Aktiengesellschaft. Pipe joints. 3,041,077, 6–26–62, Cl. 277—171.
Osterlund, Alfred G., to International Business Machines Corp. Air bearing transducer with gimbal ring mounting. 3,051,954, 8–28–62, Cl. 346—74.
Osterman, Harry F., Jr., and R. L. Uphoff, to Jones & Laughlin Steel Corp. Ultrasonic pickling. 3,066,084, 11–27–62, Cl. 204—144.
Osterman, Herbert J. Lubrication device for conveyor chains. 3,023,848, 3–6–62, Cl. 184—15.
Osterreichische Stickstoffwerke Aktiengesellschaft: *See*—
Bodo, Gerhard, Diskus, and Beck. 3,044,929.
Obendorf, Werner, and Meindl. 3,042,715.
Obendorf, Werner H. 3,051,745.
Schmidt, Alfred, and Weinrotter. 3,034,853.
Osterreichische Studiengesellschaft fur Atomenergie Ges.m.b.H.: *See*—
Higatsberger, Michael J. 3,040,173.
Ostertag, Harry M.: *See*—
Ostertag, Harry M., Jr., and H. M. Ostertag. 3,043,370.
Ostertag, Harry M., deceased, by H. M. Ostertag, Jr., executor. Yankee dryer. 3,060,592, 10–30–62, Cl. 34—124.
Ostertag, Harry M., Jr.: *See*—
Ostertag, Harry M. 3,060,592.
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Osthoff, Robert C.: *See*—
Hurd, Dallas T., and Osthoff. 3,021,292.
Ostler, Josef, to H. and F. W. Deckel. Electric motor with rotatable connector. 3,024,376, 3–6–62, Cl. 310—71.
Ostler, Virgil F.: *See*—
Cowley, Ivan B. 3,026,211.
Ostline, John E.: *See*—
Esperseth, Maurice H., and Ostline. 3,019,294.
Ostline, John E., to Automatic Electric Laboratories, Inc. Calling line and station identification system. 3,024,316, 3–6–62, Cl. 179—18.
Ostline, John E., deceased; by M. A. Ostline, executrix, to Automatic Electric Laboratories Inc. Measured service system. 3,070,661, 12–25–62, Cl. 179—8.5.
Ostline, John E., deceased; by M. A. Ostline, executrix, to Automatic Electric Laboratories Inc. Calling party identification system. 3,070,664, 12–25–62, Cl. 179—17.
Ostline, John E., I. V. Coleman, and J. W. Taugner, to Automatic Electric Laboratories, Inc. Automatic toll ticketing telephone system. 3,019,295, 1–30–62, Cl. 179—7.1.
Ostline, John E., and J. W. Taugner, to Automatic Electric Laboratories, Inc. Automatic toll ticketing telephone system. 3,046,342, 7–24–62, Cl. 179—7.1.
Ostline, Mattie A.: *See*—
Ostline, John E. 3,070,661.
Ostline, John E. 3,070,664.
Ostrander, Robert K. Squinting and weeping doll. 3,053,-009, 9–11–62, Cl. 46—135.
Ostroff, Edward D.: *See*—
Meyer, Maurice A., Ostroff, and Rubinstein. 3,032,748.
Ostroff, Edward D., to Laboratory For Electronics, Inc. Computing apparatus. 3,021,068, 2–13–62, Cl. 235—164.
Ostroff, Harry, and L. H. Levitt, to Collidtronics, Inc. Device for assessing damage to automotive vehicles. 3,021,-615, 2–20–62, Cl. 35—24.
Ostrom, Erik, to Fabriks Aktiebolaget Venta. Collapsible shelf arrangement. 3,025,970, 3–20–62, Cl. 211—90.
Ostrom, Martin E., to National Lock Co. Counter-balancing lid support. 3,064,847, 11–20–62, Cl. 217—50.
Ostrov, Bernard, and P. Neuwirth, to Autometric Corp. High speed precision current switching system. 3,030,619, 4–17–62, Cl. 340—347.
Ostrow, Barnet D., and F. I. Nobel. Additive for copper plating bath. 3,021,266, 2–13–62, Cl. 204—44.
Ostrow, Barnet D., and F. I. Nobel. Semi-bright copper. 3,037,918, 6–5–62, Cl. 204—52.
Ostrozynski, Robert L.: *See*—
Heinze, Richard R., and Ostrozynski. 3,035,883.
Ostwald, Robert E. Collating rack. 3,021,133, 2–13–62, Cl. 270—58.
Ostwald, Robert E. Control system for printing presses. 3,034,427, 5–15–62, Cl. 101—144.
Osugi, Tetsuro: *See*—
Tanabe, Kenichi, Suda, Miyazaki, and Tetsuro. 3,044,974.
Osugi, Tetsuro, K. Tanabe, N. Kawabe, H. Yabe, O. Morimoto, and S. Miyazaki, ¼ to Air Reduction Co., Inc. and ¾ to Kurashika Rayon Co., Ltd. Polyvinyl alcohol fibers having improved elasticity. 3,027,224, 3–27–62, Cl. 18—54.
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O'Sullivan, Daniel J.: *See*—
Harlen, Frank, O'Sullivan, Lambeth, and Thomas. 3,031,573.
Osvold, Robert H. Ohmmeter. 3,060,379, 10–23–62, Cl. 324—62.
Oswald, Alexes A.: *See*—
Olah, George A., and Oswald. 3,024,238.
Olah, George A., and Oswald. 3,024,261.
Oswald, Alexis A., to Esso Research and Engineering Co. Preparation of new hydroperoxides by the cooxidation of olefinic compounds and mercaptans. 3,050,564, 8–21–62, Cl. 260—609.
Oswald, Alexis A., C. B. Rupar, S. Ilnyckyj, and F. Nõel, to Esso Research and Engineering Co. Denitrogenation of petroleum. 3,046,349, 1–9–62, Cl. 208—254.
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Oswald, Raymond C., to Sharon Steel Corp. Furnace roof and wall construction. 3,038,423, 6–12–62, Cl. 110—99.
Oswald, Richard G., to Garrison Machine Works, Inc. Schedule board. 3,069,790, 12–25–62, Cl. 35—66.
Oswald, Robert A. Apparatus for photographing races. 3,069,986, 12–25–62, Cl. 95—11.
Oswald, Thomas: *See*—
Latimer, Kenneth E., and Oswald. 3,041,555.

Oswalt, George L. Molding machine. 3,045,311, 7–24–62, Cl. 25—103.
Ota, Katsumi: *See*—
Kodera, Toshio, Morishita, and Ota. 3,039,412.
Ota, Kihachiro, and K. Aoki; said Aoki assor. to said Ota. Automatic joining device for reeled band materials. 3,035,787, 5–22–62, Cl. 242—56.
Ota, Naruo: *See*—
Masukawa, Miyoshi, Ota, Yamada, and Shimato. 3,016,286.
Otaka, Noboru. Method of preparing the enzym essential solution which contains various species of vegetable enzyms. 3,063,912, 11–13–62, Cl. 195—63.
Otani, Kokichi. Method for the manufacture of tough cast iron. 3,065,070, 11–20–62, Cl. 75—130.
Otarion, Inc.: *See*—
Hillmeyer, Albert C., and Calhoun. 3,059,066.
Otarion Listener Corp.: *See*—
Nathe, Raymond J. 3,052,763.
Otey, Felix H., C. A. Wilham, and C. L. Mehltretter, to United States of America, Agriculture. Process for making erythritol and erythrene glycol from polymeric dialdehydes. 3,046,312, 7–24–62, Cl. 260—635.
Othmer, Donald F., and D. K. Huang. Dehydrocyclization process. 3,023,254, 2–27–62. Cl. 260—673.5.
Othmer, Donald F., and J. J. Conti, Jr. Process of azeotropic distillation of formic acid from acetic acid. 3,024,-170, 3–6–62, Cl. 202—42.
Othon, Ralph: *See*—
Wullenwaber, Robert W., and Othon. 3,044,528.
Otis Elevator Co.: *See*—
Bruns, William H. 3,050,154.
Diamond, Lew H., and Couturier. 3,018,851.
Fabula, Andrew. 3,049,213.
Hornung, Stephen A. 3,022,865.
Karmel, Philip, and Tucker. 3,050,155.
Prince, Arthur E. 3,065,318.
Tucker, Benjamin W., Jr. 3,065,826.
Otis Engineering Corp.: *See*—
Calvert, John G., Corley, and Fredd. 3,064,580.
Canalizo, Carlos R. 3,028,815.
Canalizo, Carlos R., and Graves. 3,064,628.
Cummings, Leslie L. 3,022,796.
Dollison, William W. 3,026,904.
Dollison, William W. 3,032,113.
Dollison, William W. 3,036,637.
Dollison, William W. 3,051,239.
Fredd, John V. Re. 25,289.
Fredd, John V. 3,027,947.
Fredd, John V. 3,066,740.
Green, William G. 3,023,811.
Grimmer, George G. 3,057,407.
Magee, John E. 3,047,096.
Raulins, George M. 3,070,119.
Raulins, George M., and Graves. 3,048,358.
Schramm, Harry B. 3,045,748.
Schramm, Harry B., and Liebert. 3,040,808.
Schramm, Harry B., Raulins, and Fredd. 3,025,912.
Schramm, Harry B., Raulins, and Fredd. 3,054,449.
Sharp, Frank W., and Medford. 3,042,116.
Sizer, Phillip S. 3,025,913.
Spalding, James G. 3,016,096.
Tamplen, Jack W. 3,024,807.
Tamplen, Jack W. 3,068,890.
Otis, James W.: *See*—
De Gryse, Gentiel M., Otis, and Weber. 3,053,041.
Otis, Russell M., to The Oil Shale Corp. Plant and process for the production of oil from oil shale and the like. 3,058,903, 10–16–62, Cl. 208—11.
Oto, Keijiro, to Tokushu Pompu Kogyo Kabushiki Kaisha (Special Pump Co., Ltd.). Multiplicator. 3,035,773, 5–22–62, Cl. 235—194.
O'Toole, Murray J. Power take off for disposal unit. 3,033,-474, 5–8–62, Cl. 241—101.
O'Toole, Phil J., and M. H. Mater. Mobile, collapsible display device. 3,024,738, 3–13–62, Cl. 104—44.
Otoupalik, Kamille O. Chain saw protective sheath. 3,042,-087, 7–3–62, Cl. 143—32.
Ott, Clyde E., to Rockwell Mfg. Co. Plural pointer displacement indicator. 3,063,284, 11–13–62, Cl. 73—3.
Ott, Heinrich: *See*—
Ehrhart, Gustav, Hennig, Lindner, and Ott. 3,051,618.
Ehrhart, Gustav, Hennig, Lindner, and Ott. 3,063,899.
Ehrhart, Gustav, Lindner, and Ott. 3,051,742.
Hennig, Ingeborg, Lindner, and Ott. 3,042,712.
Schmitt, Karl, Hennig, Lindner, and Ott. 3,045,043.
Ott, Henry D.: *See*—
De Fore, Ernest O., Cox, Ott, Atkinson, and Garrison. 3,055,603.
Ott, John B., to Monsanto Chemical Co. Suspension polymerization of vinylidene aromatic compounds. 3,051,682, 8–28–62, Cl. 260—45.5.
Ott, John E.: *See*—
Reed, George H., and Ott. 3,052,425.
Ott, John E., J. J. Koza, and R. F. Novy, to Punch-Lok Co. Hose clamping machine. 3,027,788, 4–3–62, Cl. 81—9.3.
Ott, John W.: *See*—
Ello, Clyde W., and Ott. 3,055,299.
Moyer, Richard L., and Ott. 3,069,074.
Ott, Joseph W.: *See*—
Graczyk, Bronislaus S., and Ott. 3,049,743.
Ott, Kenneth A., and R. V. Seifert, to Industrial Gravure Co. Vacuum support. 3,066,592, 12–4–62, Cl. 95—76.
Ott, Vivian L.: *See*—
Beaman, John B., and Ott. 3,058,287.
Beaman, John B., and Ott. 3,058,531.
Ott, Walter, to Sulzer Freres, S.A. Support means for tubes or groups of tubes heated by hot gas. 3,060,909, 10–30–62, Cl. 122—510.
Ott, William F., J. H. Krein, and H. A. Carlson, to ACF Industries, Inc. Separate thermostat controlled latch mechanism for secondary throttles. 3,043,572, 7–10–62, Cl. 261—23.
Otta, Miloslav: *See*—
Svaty, Vladimir, Otta, and Houdek. 3,057,224.
Otteman, Lloyd G.: *See*—
Ashe, Robert E., Haeber, Newman, and Otteman. 3,041,-690.
Bauer, Richard J., Haeber, Otteman, and Perner. 3,064,-735.
Geer, Ronald L., and Otteman. 3,052,299.
Haeber, John A., Newman, and Otteman. 3,050,117.
Outwin, Bertram N., and Otteman. 3,050,138.
Otten, Alfred, P. Evertz, and H. Rohnke, to K. Jos. Otten, Tuchfabrik. Two-for-one twisting spindle. 3,052,080, 9–4–62, Cl. 57—58.49.
Otten, K. Jos., Tuchfabrik: *See*—
Otten, Alfred, Evertz, and Rohnke. 3,052,080.
Ottenbacher, Theophilus H., ½ to Jack R. Jewell. Pitless well adapter. 3,050,124, 8–21–62, Cl. 166—85.
Ottenheym, Johannes H., to Stamicarbon N.V. Preparation of ω-aminoalkane carbonitriles from lactams. 3,036,113, 5–22–62, Cl. 260—465.2.
Ottenheym, Johannes H., and J. P. H. von den Hoff, to Stamicarbon N.V. Process for preparing A 3. nitro-azacyclo-alkanone-2-*N*-carbochloride. 3,031,443, 4–24–62, Cl. 260—239.3.
Ottenheym, Johannes H., and P. L. Kerkhoffs, to Stamicarbon N.V. Preparation of α-aminolactams by catalytic hydrogenation of α-nitro lactams. 3,048,580, 8–7–62, Cl. 260—239.3.
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Otters, Erich: *See*—
Kiesskalt, Siegfried, Hulsen, and Otters. 3,069,016.
Ottersky, Herbert: *See*—
Haas, Karl, Ottersky, and Stolzel. 3,037,928.
Otterson, Clifford A. Pipe hanger. 3,049,326, 8–14–62, Cl. 248—59.
Otteson, Norman H., ¼ to M. C. Latta, and ¼ to H. R. McKibben. Drain flushing device. 3,023,428, 3–6–62, Cl. 4—256.
Ottestad, Jack B., to General Dynamics Corp. Internal combustion actuator. 3,046,737, 7–31–62, Cl. 60—39.6.
Ottestad, Jack B., S. A. Skeen, and E. W. Baker, to General Dynamics Corp. Dynamic impacting machine. 3,036,538, 5–29–62, Cl. 113—45.
Ottestad, Jack B., and S. A. Skeen, to General Dynamics Corp. Apparatus for controlled release of pressurized fluid. 3,039,292, 6–19–62, Cl. 73—12.
Ottinger, August F., and C. V. Brady, deceased, to Bemis Bro. Bag Co. Roll wrapping. 3,055,576, 9–25–62, Cl. 229—57.
Ottke, Robert C., and C. F. Niven, Jr., to Chas. Pfizer & Co., Inc. Preservation of meat. 3,057,735, 10–9–62, Cl. 99—157.
Ottmann, Gerhard F., to Olin Mathieson Chemical Corp. Polyesters from fluorinated glycols and process of making same. 3,044,988, 7–17–62, Cl. 260—75.
Otto, Anthony K., to King-Seeley Thermos Co. Temperature sensing devices. 3,037,179, 5–29–62, Cl. 338—28.
Otto, Carl. Coke oven construction. 3,042,589, 7–3–62, Cl. 202—139.
Otto, Ferdinand F.: *See*—
Munns, George W., Jr., Otto, and Seger. 3,070,576.
Otto, Ferdinand P., to Socony Mobil Oil Co., Inc. Lubricating oils containing carbonated basic sulfurized calcium phenates. 3,036,971, 5–29–62, Cl. 252—42.7.
Otto, George W., Jr.: *See*—
Craig, James R., and Otto. 3,043,953.
Otto, Gilbert F., to Abbott Laboratories. Method and compositions for treatment of hexamitosis. 3,069,316, 12–18–62, Cl. 167—53.
Otto, Howard K.: *See*—
Crosby, George A., and Otto. 3,023,693.
Otto Items, Inc.: *See*—
Millan, Robert P. 3,037,522.
Otto, Rigobert J. A.: *See*—
Audrieth, Ludwig F., and Otto. 3,044,846.
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Otto, William E.: *See*—
Lamb, George E., and Otto. 3,035,716.
Otto, William H.: *See*—
Whitehurst, Harry B., and Otto. 3,019,515.
Ottosson, Carl O. L.: *See*—
Sjöstrand, Fritiof S., Ottosson, and Zernell. 3,019,673.
Otzen, Christian: *See*—
Baur, Carl, and Otzen. 3,029,698.
Baur, Carl, and Otzen. 3,033,081.
Oudry, Paul J. F., to Batignolles-Chatillon (Mecanique Generale). Combined gearbox and steering box for tracked vehicles. 3,044,320, 7–17–62, Cl. 74—710.5.

Ouellette, Clarence P.: *See*—
Volks, Herbert, and Ouellette. 3,059,391.
Ouellette, Ernest. Fishing line fastener. 3,041,695, 7–3–62, Cl. 24—126.
Ouellette, Hector J., ½ to S. J. Peconi. Ladder fittings. 3,027,968, 4–3–62, Cl. 182—201.
Ouellette, Philip A.: *See*—
Stoyle, Lewis E., Jr., Ouellette, and Hanus. 3,035,985.
Stoyle, Lewis E., Jr., Ouellette, and Hanus. 3,037,911.
Oughton, John F.: *See*—
Evans, Ronald M., Elks, Hems, Arthur, Oughton, Gregory, Walker, and Hunt. 3,040,034.
Ouimet, Jean, and B. Dansereau. Automobile transmission lever locking device. 3,021,913, 2–20–62, Cl. 180—82.
Oumand, Robert: *See*—
Frampton, John A. 3,056,602.
Our Lady of Fatima Church: *See*—
Zalesak, Thomas A. 3,043,980.
Oury, Levi I. Flood control unit. 3,020,922, 2–13–62, Cl. 137—115.
Ousley, James A., to United States of America, Navy. Manual arm-safe switch. 3,052,784, 9–4–62, Cl. 200—158.
Oussani, James J. Multiple stapler. 3,016,538, 1–16–62, Cl. 1—3.
Oussani, James J. Powerized fastener. 3,022,512, 2–27–62, Cl. 1—106.
Oussani, James J. Automatic stapler. 3,026,518, 3–27–62, Cl. 1—3.
Outboard Marine Corp.: *See*—
Conover, Warren C. 3,061,250.
Hulsebus, Richard P. 3,045,423.
Ricci, Henry. 3,050,094.
Richardson, William A. 3,036,606.
Shaw, Gerald J. 3,056,249.
Shaw, Gerald J. 3,065,588.
Shimanckas, William J. 3,042,146.
Outillage Electrique Silex: *See*—
Baron, Raoul M. A. 3,048,722.
Outlook Engineering Corp.: *See*—
Bradford, Henry K. 3,047,811.
Outterson, Charles R., J. L. Baker, and B. S. Halsey; said Outterson assor. to Albemarle Paper Mfg. Co. Coated paper and paperboard and process for making same. 3,017,295, 1–16–62, Cl. 117—155.
Outterson, George G.: *See*—
Bredesen, Philip N., and Outterson. 3,049,169.
Outwin, Bertram N., and L. G. Otteman, to Shell Oil Co. Guide system for underwater wells. 3,050,138, 8–21–62, Cl. 175—7.
Ouvrard, Paul, to Societe Antor Petroles de l'Atlantique. Method and apparatus for the testing of fluids. 3,060,318, 10–23–62, Cl. 250—218.
Ouvrier, Gerhard, to Wolfgang Assmann Gesellschaft mit beschrankter Haftung. Tone arm and magnetic transducer head therefor. 3,029,319, 4–10–62, Cl. 179—100.2.
Over, Raymond E.: *See*—
Hosbein, Louis H., and Over. 3,015,288.
Over, William R.: *See*—
Klingner, Martin L., and Over. 3,037,545.
Over, William R., and H. E. Stine, Jr., to AMP Inc. Hand tool for crimping electrical connectors. 3,029,670, 4–17–62, Cl. 81—15.
Overbaugh, Charles B. Golf ball tee. 3,063,722, 11–13–62, Cl. 273—210.
Overbeek, Donald E., and R. C. Nametz, to Michigan Chemical Corp. Method for the preparation of tris(2,3-dibromopropyl) phosphate. 3,046,297, 7–24–62, Cl. 260—461.
Overbeke, Catharine A.: *See*—
Zanow, Andrey L., Overbeke and C. A. 3,033,384.
Overbeke, John W.: *See*—
Zanow, Andrey L., Overbeke and C. A. 3,033,384.
Overfors, Bertel. Coin and bill mailing card. 3,032,256, 5–1–62, Cl. 229—92.9.
Overhead Door Corp.: *See*—
Pemberton, Paul E., and Stroup. 3,060,491.
Stroup, Earl L. 3,034,575.
Stroup, Earl L., Crosswell, and Schacht. 3,038,535.
Overholt, Donald C., and G. D. Roy, to Union Carbide Corp. Recovery of fluorene, dibenzofuran and acenaphthene from coal hydrogenation neutral middle oil. 3,031,463, 4–24–62, Cl. 260—346.2.
Overhuls, Robert L., to Sinclair Research Inc. Apparatus and method for mounting core specimens. 3,066,524, 12–4–62, Cl. 73—38.
Overhults, Wendell: *See*—
Stickney, Palmer B., Overhults, and Werber. 3,030,349.
Overkamp, William A., Jr., P. H. Kraus, and I. Klingensmith. System for transmitting a message from a protected location by radio to a distant receiver. 3,044,015, 7–10–62, Cl. 325—187.
Overly, Charles R.: *See*—
Cannon, George E., Overly, Root, and Pennington. 3,059,-708.
Overly Mfg. Co.: *See*—
Goodwin, John H. 3,055,147.
Overman, Aubrey Y., to United Aircraft Corp. Expansion joint for bus bars. 3,065,293, 11–20–62, Cl. 174—88.
Overman, Guy R., and R. C. Davis, to General Motors Corp. Squeegee. 3,035,297, 5–22–62, Cl. 15—250.36.
Overman, William R., and H. E. Stine, Jr., to AMP Inc. Hand tool for crimping electrical connectors. 3,029,670, 4–17–62, Cl. 81—15.
Overmars, Henricus G. J.: *See*—
Jibben, Bart P., and Overmars. 3,054,772.
Oversewing Machine Co. of America, Inc., The: *See*—
Brown, Franklin R., and Atkins. 3,030,916.
Overstreet, George W. and W. A., to Sebastopol Cooperative Cannery. Fruit processing machine. 3,039,504, 6–19–62, Cl. 146—51.
Overstreet, William A.: *See*—
Overstreet, George W. and W. A. 3,039,504.
Overton, Glen. Drier mechanism and method. 3,068,585, 12–18–62, Cl. 34—17.
Overton, Lyle S. Blade assembly for drum dryers or the like. 3,040,442, 6–26–62, Cl. 34—110.
Overton Machine Co.: *See*—
Ray, Chester A. 3,041,738.
Oviatt, Clara T.: *See*—
Frosh, Earl A. 3,044,606.
Ovist, Elwin B.: *See*—
Eickemeyer, Daniel B., and Ovist. 3,038,859.
Ovitron Corp.: *See*—
Ovshinsky, Stanford R. 3,052,830.
Ovshinsky, Stanford R., to Ovitron Corp. Electrical control device and process. 3,052,830, 9–4–62, Cl. 317—231.
Ovshinsky, Stanford R., to Tann Corp. Electric responsive device. 3,066,203, 11–27–62, Cl. 200—87.
Owatonna Tool Co.: *See*—
Berry, Claude G. 3,066,726.
Kaplan, Reuben A. and D. J., and Grabow. 3,028,723.
Kaplan, Reuben A. and D. J., and Grabow. 3,028,724.
Owen, Archibald D., and W. L. Lassetter, to Sperry Rand Corp. Position-selective call and identification system. 3,049,705, 8–14–62, Cl. 343—6.
Owen, Charles E., to International Business Machines Corp. Electronic digital computing machines. 3,017,101, 1–16–62, Cl. 235—176.
Owen, Douglas H., to International Standard Electric Corp. Manganese ferrites. 3,066,103, 11–27–62, Cl. 252—62.5.
Owen, Harrold D.: *See*—
Caldwell, Blake M., and Owen. 3,067,679.
Owen, Harrold D., to Go Oil Well Services, Inc. Bore hole perforating apparatus. 3,036,521, 5–29–62, Cl. 102—20.
Owen, Harry L. Building framing unit. 3,016,993, 1–16–62, Cl. 52—94.
Owen, Josephine C. Doll dress pattern and manufacture. 3,056 970, 10–9–62, Cl. 2—243.
Owen, Leonard N.: *See*—
Danielli, James F., and Owen. 3,057,850.
Owen, Marshall R.: *See*—
Barnett, Don C., and Owen. 3,061,701.
Owen, Nathan B., and J. Y. Feinstein. Device for harnessing multiple wires. 3,027,419, 3–27–62, Cl. 174—72.
Owen, Obal B. Electrical wire connector. 3,038,957, 6–12–62, Cl. 174—53.
Owen, Richard, to Minnesota Mining and Mfg. Co. Heat-sensitive copy-sheet. 3,028,255, 4–3–62, Cl. 117—36.
Owen, Robert K. Golf cart. 3,025,074, 3–13–62, Cl. 280—42.
Owen, Thomas H., to Clark Equipment Co. Mold centering device. 3,063,112, 11–13–62, Cl. 22—153.
Owen, Virgil W.: *See*—
Popovich, George, and Owen. 3,064,493.
Owen, William L. Treatment of starches and gums, and compositions thereof. 3,018,245, 1–23–62, Cl. 252—8.5.
Owendoff, Harold M.: *See*—
Miller, Robert A., Munson, Owendoff, and Tarls. 3,022,380.
Owens, Alwyn R.: *See*—
Chaplin, George B. B., Owens, and Candy. 3,069,559.
Owens, Amanda J.: *See*—
Clifford, Alfred T., and Owens. 3,030,227.
Owens, Charles D., to United States of America, Agriculture. Honeycomb uncapping apparatus. 3,068,496, 12–18–62, Cl. 6—12.
Owens, Clyde A. Temperature responsive liquid discharge unit. 3,051,660, 8–28–62, Cl. 252—360.
Owens-Corning Fiberglas Corp.: *See*—
Bastone Andrew L. 3,029,475.
Best, James R. 3,023,839.
Bishop, Dana L. 3,042,536.
Caprin, Conrad, Wyckoff, and Coe. 3,043,450.
Caroselli, Remus F., and Gagnon. 3,068,546.
Caroselli, Remus F., Marzocchi, and Billett. 3,029,589.
Caroselli, Remus F., Marzocchi, and Billett. 3,029,590.
Curtis, Charles C. 3,020,324.
Frickert, Philip J. 3,049,754.
Frickert, Philip J. 3,056,711.
Frickert, Philip J., Jr., Russell, and Smock. 3,039,169.
Glaser, Hellmut I. 3,028,442.
Glaser. Hellmut I. 3,048,640.
Glaser, Hellmut I. 3,056,846.
High, Alan V., Orner, and Rittenhouse. 3,062,481.
Jannarelli, Albert E., and Howard. 3,067,059.
Johnston, Lowell B. 3,054,714.
Johnston, Lowell B. 3,061,914.
Kleist, Dale. 3,019,477.
Kleist, Dale. 3,059,454.
Koerner, Mark P., and Warner. 3,066,065.
Layton, Paul L. 3,041,218.
MacDonald, Donald. 3,061,502.
Marzocchi, Alfred. 3,065,103.
Marzocchi, Alfred, and Haynes. 3,040,413.
Marzocchi, Alfred, and Rammel. 3,042,544.
Marzocchi, Alfred, Rammel, and Charon. 3,066,383.

Owens-Corning Fiberglas Corp. : *See*—Continued
Marzocchi, Alfred, Waugh, and Beaudoin. 3,062,670.
Miller, Ward B., and Ewing. 3,068,732.
Morgan, Willard L., Morrison, and Shannon. 3,025,202.
Morgan, Willard L., Morrison, and Shannon. 3,062,682.
Morgan, Willard L., Whitehurst, Russell, and Stalego. 3,021,564.
Philipps, Thomas E. 3,022,210.
Pio, Emerick C. 3,054,440.
Prentice, William H., and Link. 3,056,172.
Rawlinson, Alvis M., and Falling. 3,019,476.
Roberson, Cletis L. 3,019,078.
Roberson, Cletis L. 3,021,558.
Russell, Robert G. 3,029,993.
Russell, Robert G. 3,040,412.
Russell, Robert G. 3,068,670.
Russell, Robert G., Morgan, and Scheffler. 3,065,091.
Shannon, Richard F. 3,056,686.
Shannon, Richard F., Morgan, and Sullivan. 3,039,981.
Simison, Allen L. 3,015,582.
Simon, Ivan. 3,069,964.
Slayter, Games. 3,018,991.
Slayter, Games. 3,030,639.
Slayter, Games. 3,047,383.
Slayter, Games. 3,056,653.
Slayter, Games. 3,060,674.
Slayter, Games, and Fowle. 3,015,524.
Slayter, Games, Morgan, Morrison, and Shannon. 3,040,427.
Slayter, Games, and Roth. 3,040,377.
Slayter, Games, Snow, and Philipps. 3,021,563.
Slayter, Games, Snow, Russell, and Kleist. 3,026,563.
Slayter, Games, Whitehurst, and Morgan. 3,047,409.
Stalego, Charles J. 3,015,127.
Stalego, Charles J. 3,015,842.
Stalego, Charles J. 3,049,751.
Stoneburner, Chalmer S. 3,044,919.
Thomas, John H., and Marzocchi. 3,044,146.
Tiede, Ralph L. 3,048,466.
Tiede, Ralph L. 3,056,283.
Trethewey, William C. 3,052,877.
Veazie, Folsom M. 3,046,084.
Veazie, Folsom M. 3,063,788.
Waggoner, Jack H. 3,020,189.
Warthen, William P. 3,063,094.
Whitehurst, Harry B. 3,041,202.
Whitehurst, Harry B. 3,054,712.
Whitehurst, Harry B., and Otto. 3,019,515.
Wong, Robert. 3,062,677.
Wong, Robert, and Wise. 3,056,705.
Owens, Edgar J. : *See*—
Chittum, Joseph F., Owens, and Armstrong. 3,041,135.
Owens, Freeman H. Stereoscopic television. 3,020,341, 2–6–62, Cl. 178—6.5.
Owens-Illinois Glass Co. : *See*—
Abbott, Raymond B., and Olson. 3,024,571.
Adams, Elmer L. 3,030,666.
Adams, Elmer L. 3,031,718.
Adams, Elmer L., and Miller. 3,029,471.
Allen, Russell G. 3,015,189.
Allen, Russell G. 3,066,805.
Allgeyer, Guy H. 3,066,786.
Allgeyer, Guy H. 3,066,787.
Allison, Blaine M. 3,055,559.
Antoszewski, Walter J., and Kurtz. 3,065,549.
Armstrong, James E. 3,045,678.
Aubry, Richard M. 3,067,552.
Augsburger, Herbert M., and Schutz. 3,039,231.
Babcock, Clarence L. 3,024,120.
Babcock, Clarence L. 3,063,198.
Baker, Theodore C. 3,040,735.
Bayer, Gerhard. 3,050,409.
Bayer, Gerhard. 3,053,616.
Bayer, Gerhard. 3,053,617.
Bayer, Gerhard. 3,053,618.
Bayer, Gerhard. 3,053,619.
Bayer, Gerhard. 3,053,684.
Bayer, Gerhard. 3,070,421.
Bayer, Gerhard. 3,070,422.
Blank, John M., and Shafer. 3,027,990.
Boyer, Joseph E. 3,060,497.
Burch, Oscar G., and Schaich. 3,028,652.
Burke, Kenneth O., and Schafer. 3,048,380.
Campbell, Ward C. 3,052,916.
Chew, Clarence, Sr. 3,053,012.
Colchagoff, Robert D., and Trudeau. 3,069,860.
Cooke, Charles C. 3,027,685.
Curry, Cecil B., Haley, and Theller. 3,049,467.
Deeren, Thomas J., and Hinds. 3,061,166
Drennan, James G. 3,068,990.
Early, Richard L., Lauck, Pigg, and Sorbie. 3,030,564.
Early, Richard L., and Sorbie. 3,025,447.
Early, Richard L., and Sorbie. 3,059,523
Elphee, Leon E. 3,040,376.
Garman, Edward B. 3,040,952.
Gasmire, Richard C. 3,032,819.
Gasmire, Richard C. 3,065,501.
Hackett, James W., Henry, and McCormick. 3,030,536.
Hagedorn, Erwin C. 3,024,121.
Hagedorn, Erwin C. 3,054,686.
Hamilton, Joseph C. 3,059,306.
Higgins, John V. 3,061,089.
Owens-Illinois Glass Co. : *See*—Continued
Hohl, John. 3,018,597.
Husum, Charles W. 3,061,130.
Johnson, Albert S., Jr. 3,056,522.
Johnson, John R. 3,060,057.
Johnson, John R. 3,067,861.
Johnson, John R., and Kurtz. 3,025,786.
Krawetzke, Elmer J., and Peters. 3,025,638.
Lauck, Albert G. 3,021,644.
Lauck, Albert G. 3,025,637.
Lauck, Albert G., and Kurtz. 3,043,447.
Lusher, Kenneth G., McDavitt, and Vincent. 3,026,575.
Marzocchi, Alfred, and Rammel. 3,033,719.
Mathias, Benny B. 3,027,798.
McBride, William E. 3,052,971.
McGowan, John P., and Small. 3,067,027.
Meyer, Robert W. 3,017,011.
Mills, David A. 3,059,800.
Murley, Ellsworth M., Jr. 3,048,269.
Nelson, John R. 3,025,562.
Nelson, John R. 3,029,467.
Olson, Ralph H. 3,047,982.
Payne, Paul H. 3,019,911.
Pellett, Fred G. 3,026,100.
Powell, Homer E. 3,052,153.
Reiselt, William J. 3,058,647.
Rough, Robert R., and Swain. 3,057,175.
Schaich, Wilbur A. 3,036,328.
Schaich, Wilbur A. 3,053,041.
Schirm, Helmut T. 3,067,598.
Sherman, Orville B. 3,023,461.
Sherman, Orville B. 3,025,567.
Silverman, William B. 3,021,645.
Smith, Robert M. 3,070,474.
Soubier, Leonard D. 3,019,480.
Soubier, Leonard D. 3,032,810.
Soubier, Leonard D. 3,069,879.
Stalego, Charles J. 3,032,813.
Stenger, Hans G. 3,054,143.
Strzala, Kazimer S. 3,069,965.
Uhlig, Albert F. 3,032,192.
Veres, Frank. 3,057,691.
Wallace, Robert T. 3,037,652.
Wallace, Robert T. 3,061,475.
Wheaton, Jack M. 3,040,493.
Willard, John B. 3,032,809.
Williams, Harold W. 3,025,988.
Williams, Harold W. 3,025,989.
Wilson, James C. 3,032,254.
Owens, James L. : *See*—
Lloyd, Harold E., and Owens. 3,063,346.
Owens, John E., to E. I. du Pont de Nemours and Co. Thyratron anticipatory failure detection. 3,040,244, 6–19–62, Cl. 324—24.
Owens, John E., to E. I. du Pont de Nemours and Co. Method for conveying and stretching thermoplastic film. 3,068,528, 12–18–62, Cl. 18—48.
Owens, Maxwell H. Rotary mower washer. 3,028,988, 4–10–62, Cl. 220—1.
Owens, Rhea H. Distance-rate computer and/or indicator. 3,025,603, 3–20–62, Cl. 33—69.
Owens, Rhea H. Range finder height computer. 3,059,522, 10–23–62. Cl. 88—2.4.
Owens, Robert S. : *See*—
Klint, Robert V., and Owens. 3,051,535.
Owens, William R. Apparatus for precisely regulating the flow of fluid in a controlled fluid line. 3,070,111, 12–25–62, Cl. 137—101.21.
Owings, Jack L. Cornering lights. 3,023,344, 2–27–62, Cl. 315—843.
Ownby, James C. : *See*—
Thompson, John W., and Ownby. 3,033,662.
Owner, John L. : *See*—
Archer, John, and Owner. 3,033,943.
Owner, John L., and J. Archer, to North American Philips Co., Inc. Hand recording apparatus. 3,070,668, 12–25–62, Cl. 179—100.2.
Owren, Erling, to Cranston Print Works Co. Oil in water emulsions for textile printing. 3,047,354, 7–31–62, Cl. 8—86.
Owren, Harvey M., to Abtronics, Inc. High-sensitivity cathode-ray tube. 3,042,832, 7–3–62, Cl. 315—18.
Owsen, Peter. Pump. 3,056,538, 10–2–62, Cl. 230—2.
Oxberry, John W., to The Animation Equipment Corp. Optical printer having a plurality of projector heads. 3,040,619, 6–26–62, Cl. 88—24.
Oxborrow, Bernard H., to The Metal Box Co. Ltd. Carton-closing machines. 3,020,691, 2–13–62, Cl. 53—376.
Oxborrow, Bernard H., to The Metal Box Co. Ltd. Machine for setting-up cartons. 3,062,105, 11–6–62, Cl. 93—51.
Oxenham, John K., to Sylvania-Thorn Colour Television Laboratories Ltd. Colour television tube. 3,018,405, 1–23–62, Cl. 315—12.
Oxenham, Peter R., to E. I. du Pont de Nemours and Co. Container for liquefied gas. 3,050,207, 8–21–62, Cl. 220—3.
Oxford Paper Co. : *See*—
Ahara, Edward Y., Johnson, De Groot, and Stalmuke. 3,051,125.
Brown, Robert C., De Groot, and Stalmuke. 3,030,917.
McKnight, George S., Jr., and Buck. 3,015,575.
McKnight, George S., Jr., and Perkins. 3,017,827.
Perkins, Glenn H. 3,055,295.

Oxland, Frederick G.: *See*—
Schueler, Frederick W., Simeone, Delin, and Oxland. 3,056,606.
Oxley, Joseph H.: *See*—
Campbell, Ivor E., and Oxley. 3,043,679.
Oxley, Le Roy V., and C. M. Blythe, to Robotyper Corp. Selector actions for multiple key devices. 3,026,985, 3–27–62, Cl. 197—20.
Oxley, Peter, N. W. Bristow, J. R. Housley, G. Woolfe, and E. C. Wilmshurst, to Boots Pure Drug Co. Ltd. 4-(dichloroacet-N-methyl amido) phenyl-2-furoate. 3,028,386, 4–3–62, Cl. 260—250.
Oxley, Peter, G. Woolfe, N. W. Bristow, J. Fraser, G. A. H. Williams, and E. C. Wilmshurst, to Boots Pure Drug Co. Ltd. Dichloroacetanilide esters and the manufacture thereof. 3,032,555, 5–1–62, Cl. 260—268.
Oxman, Bennett: *See*—
Robertson, Harry J., Frank, Alterman, and Oxman. 3,028,243.
Oxspring, Ronald E. N., and P. Rosenblum, to Hycon Mfg. Co. Rotary camera shutter. 3,016,810, 1–16–62, Cl. 95—10.
Oxx, Gordon D., Jr., and L. F. Coffin, Jr., to General Electric Co. Self-repairing coatings for metal. 3,069,288, 12–18–62, Cl. 117—71.
Oxy-Catalyst, Inc.: *See*—
Calvert, Willard R. 3,053,773.
Houdry, Eugene J. 3,024,593.
Houdry, Eugene J. 3,041,149.
Houdry, Eugene J. 3,045,422.
Houdry, Eugene J. 3,066,477.
Oxy-Dry Sprayer Corp.: *See*—
Bruno, Frederic J. 3,045,273.
Yahnke, James G., Hahnke, and Boyett. 3,050,416.
Oxy-Gear Inc.: *See*—
Spears, Earl M., and Papsdorf. 3,043,302.
Oxygenaire (London) Ltd.: *See*—
Croasdaile, Frederick G. 3,045,672.
Croasdaile, Frederick G. 3,067,741.
Oy Medica AB: *See*—
Sundman, Knut J. 3,017,668.
Oyanagi, Yasuji, to Kurashiki Rayon Co., Ltd. Hydrolysis of acetal copolymers. 3,055,866, 9–25–62, Cl. 260—73.
Oyhus, Fred A.: *See*—
Swaim, Frank H., and Oyhus. 3,034,434.
Oyler, Herbert J. Means for barbecuing meat. 3,041,959, 7–3–62, Cl. 99—260.
Oys, John E.: *See*—
Pinke, August H., and Oys. 3,018,927.
Ozaki, Asaichiro: *See*—
Ogawa, Tetsuo. 3,042,585.
Ozalid Co. Ltd.: *See*—
Halden, Joseph G. B. 3,020,818.
Ozark-Mahoning Co.: *See*—
Peirce, John E., and Phillips. 3,021,202.
Ozawa, Noriaki: *See*—
Hiraitaka, Matsumura, Matsuda, Takagi, Kasawara, Oono, Abe, and Ozawa. 3,038,786.
Ozawa, Toshio: *See*—
Meguro, Seitaro, Ozawa, Yasuhara, Sukegawa, Shiobara, and Yoshihara. 3,063,844.
Ozimek, Alfred A.: *See*—
Phillips, John J., Ozimek, and Rademaekers. 3,023,787.
Ozonair Engineering Co. Ltd.: *See*—
Floyd, Frederick. 3,045,410.
Oztekin, Muammer A. Knock-down shelf construction. 3,044,634, 7–17–62, Cl. 211—148.
P-G Products Mfg. Co., Inc.: *See*—
Barotz, Peter S. 3,055,392.
PGAC Development Co.: *See*—
Castel, Jacques H. 3,018,730.
Scherbatskoy, Serge A. 3,030,511.
Scherbatskoy, Serge A. 3,038,076.
Summers, Gerald C. 3,056,463.
PLM Products, Inc.: *See*—
Horrocks, Raymond G., Miller, and Brenner. 3,021,382.
P-M Associates: *See*—
Castel, Jacques H., and Edwards. 3,068,400.
De Vaney, Fred D. 3,063,695.
Janssen, Hermann. 3,068,401.
Joppa, Everett L. 3,021,282.
P. & O. Research and Development Co. Ltd.: *See*—
Bunyan, Thomas W. 3,032,068.
P.S.P. Engineering Co.: *See*—
Pinney, Robert B. 3,052,828.
Paabo, George, to Fine Chemicals of Canada Ltd. Hydroxyalkyl-aminoacetyl xylidides. 3,042,720, 7–3–62, Cl. 260—562.
Paal, Hans, to Fr. Hesser, Maschinenfabrik-Aktiengesellschaft, Firma. Machine for the production of filled packages. 3,048,952, 8–14–62, Cl. 53—184.
Paar, Thomas J. J., to Chicago Printed String Co. Article and method of forming a bow. 3,041,765, 7–3–62, Cl. 41—10.
Paasche, Jens A. Spray coating machine. 3,027,095, 3–27–62, Cl. 239—187.
Pabst Brewing Co.: *See*—
Brienza, Pancrasio. 3,056,221.
Ziffer, Jack. 3,046,194.
Ziffer, Jack. 3,067,102.
Ziffer, Jack, Bennett, Cairney, and Chow. 3,032,471.
Ziffer, Jack, and Cairney. 3,025,216.
Ziffer, Jack, and Cairney. 3,035,919.
Ziffer, Jack, Chow, Cairney, and Bennett. 3,032,470.
Pacaud, Bernard F. D.: *See*—
Davies, Raymond J., and Pacaud. 3,063,734.
Pacault, Pierre H., to Babcock & Wilcox Ltd. Steam turbine power plants. 3,032,999, 5–8–62, Cl. 60—67.
Pacciarini, Antonio: *See*—
Vanzo, Marcello, Giletta, and Pacciarini. 3,035,629.
Vanzo, Marcello, Giletta, and Pacciarini. 3,053,308.
Pace, Andre. Dandruff removing comb. 3,066,683, 12–4–62, Cl. 132—11.
Pace, Henry A., to The Goodyear Tire & Rubber Co. Preparation of flexible elastomeric cellular polyurethane products. 3,016,356, 1–9–62, Cl. 260—2.5.
Pace, Inc.: *See*—
Cassidy, Robert J. 3,064,102.
Huffman, John W. 3,051,807.
Reffel, Donald L. 3,051,808.
Pace, Stanley M. Coil spring compressor. 3,070,354, 12–25–62, Cl. 254—10.5.
Pacey, John J., to Gilbert & Barker Mfg. Co. Dispensing nozzle. 3,035,615, 5–22–62, Cl. 141—209.
Pacey, John J., and G. D. Robinson, Jr., to Gilbert & Barker Mfg. Co. Elimination of air and vapors from a centrifugal pump. 3,050,008, 8–21–62, Cl. 103—113.
Pachernegg, Siegfried, to H. List. Pistons for internal combustion engines. 3,023,060, 2–27–62, Cl. 309—6.
Pachmayr, Frank A. Gun choke mounting apparatus. 3,029,540, 4–17–62, Cl. 42—79.
Pachuta, Joseph R., to United States of America, Air Force. Amplitude discriminator device. 3,048,787, 8–7–62, Cl. 328—150.
Pachuta, Martin: *See*—
Reibel, Sidney, Purdon, and Pachuta. 3,044,416.
Pacific Automation Products, Inc.: *See*—
Goodwine, Don F. 3,041,873.
Pacific Car and Foundry Co.: *See*—
Brecko, Richard E., and Bryan. 3,055,675.
Dafoe, Leslie R. 3,039,820.
Holmstrom, John G. 3,069,185.
Magnuson, John E. 3,049,340.
Magnuson, Roland A. 3,035,237.
Norrie, Robert C. 3,017,944.
Pacific Fire Extinguisher Co.: *See*—
Vining, Edward K., Hardin, and Secchitano. 3,061,825.
Pacific Industrial Mfg. Co.: *See*—
Pearson, Eugene W. 3,054,316.
Pacific Industries, Inc.: *See*—
Baumbach, Harlan L., and Ford. 3,022,941.
Minagawa, Toyosaku, and Hamaishi. 3,031,380.
Pacific Lumber Co., The: *See*—
Van Beckum, William G., and Thompson. 3,040,882.
Pacific Molded Pulley Co., Inc.: *See*—
Friedman Mark M. 3,048,400.
Pacific Pulp Molding Co.: *See*—
Leitzel, Ammon M. 3,040,923.
Leitzel, Ammon M. 3,046,187.
Leitzel, Ammon M. 3,049,844.
Leitzel, Ammon M. 3,050,115.
Leitzel, Ammon M. 3,065,511.
Pacific Scientific Aeroproducts: *See*—
Cushman, Clifford E., and Wrighton. 3,064,920.
Pacific Scientific Co.: *See*—
Cushman, Clifford E., and Wrighton. 3,018,065.
Gordon, James F. 3,030,563.
Gordon, James F. 3,030,580.
Mescher, Harold E., and Heyer. 3,035,819.
Mescher, Harold E., and Rosensson. 3,066,971.
Wrighton, Robert J., and Cushman. 3,016,760.
Wrighton, Robert J., and Cushman. 3,016,761.
Pacific Semiconductors, Inc.: *See*—
Armstrong, Harold L. 3,044,147.
Brown, Lake D., Jr. 3,033,537.
Fuller, Richard H. 3,023,378.
Maiden, Clinton E., and Schnepple. 3,030,562.
Metz, E. D. 3,047,780.
Pratt, Lemuel A. 3,047,044.
Stevenson, Alden, and Hall. 3,055,776.
Wullenwaber, Robert W., and Othon. 3,044,528.
Pacific Transducer Corp.: *See*—
Argabrite, George A. 3,015,955.
Pacific Valves, Inc.: *See*—
Dumm, Roger H. 3,038,499.
Dumm, Robert P. 3,038,693.
Dumm, Robert P. 3,049,103.
Dumm, Robert P. 3,053,498.
Pacific Vegetable Oil Corp.: *See*—
Cummings, Lowell O. 3,051,671.
Pacific Coast Engineering Co.: *See*—
Kirshenbaum, David, and Rubinsky. 3,060,555.
Montgomery, Murray M. 3,061,110.
Ramsden Charles D. 3,051,321.
Paciorek, Kazimiera L., to Wyandotte Chemicals Corp. Fluorinated pentadiene. 3,067,264, 12–4–62, Cl. 260—653.3.
Pack, Albert H.: *See*—
Leatham, Earl and Pack. 3,060,042.
Snyder, Richard P., Leatham, Gabor, and Pack. 3,060,000.
Pack, Douglas H.: *See*—
Cook, Melvin A., and Pack. 3,037,453.
Pack, Herschel G. Thermoelectric generator with feedback for increasing efficiency. 3,018,430, 1–23–62, Cl. 322—2.

Pack Mfg. Co.: *See*—
Shelly, Robert S. 3,025,604.
Package Forming Machinery Co. Ltd.: *See*—
Phin, Sydney R. 3,021,043.
Package Machinery Co.: *See*—
Cross, Cedric B., and Crescenzo. 3,053,373.
Dion, John F. 3,069,061.
Hoppe, William, and Schoppee. 3,044,226.
Newell, Kenneth F., Crescenzo, Chase, and Mehlhorn. 3,061,989.
Newell, Kenneth F., Crescenzo, Chase, and Mehlhorn. 3,067,555.
Olmsted, Bernie A., and Cinco. 3,020,593.
Roberts, Franklin B. 3,067,557.
Packaging Corp. of America: *See*—
Anderson, Wilbur G., Jr. 3,047,138.
Champlin, Charles L. 3,042,194.
Gish, Lyman C. 3,037,661.
Gish, Lyman C. 3,037,662.
Hardon, Frank T. 3,039,670.
Hickin, Robert J. 3,037,680.
Schneier, Louis R. 3,047,202.
Steele, Gerald H., and Hickin. 3,037,609.
Packaging Frontiers Inc.: *See*—
Schneider, William S., and Corella. 3,026,658.
Packard-Bell Computer Corp.: *See*—
Beck, Robert M., Mitchell, Palevsky, and Ruhman. 3,029,023.
Beck, Robert M., and Palevsky. 3,059,228.
Packard-Bell Electronics Corp.: *See*—
Crane, Hewitt D. 3,054,066.
Hooper, Brian E. 3,049,586.
Hooper, Brian E. 3,049,711.
Kis, George, and Murphy. 3,035,176.
Whisenhunt, J. L. 3,065,424.
Williams, Harold E. 3,059,206.
Packard, Charles F., and S. D. Silsby, to United States of America, Army. Firing mechanism for a spotting rifle. 3,054,208. 9–18–62, Cl. 42—70.
Packard, Clifford B.: *See*—
Nutkins, Derek J., and Packard. 3,057,589.
Robinson, Donald W., Jr., and Packard. 3,017,147.
Packard, Damon R.: *See*—
Packard, Paul J., Folkenroth, and Packard. 3,018,679.
Packard, Durward I., to Brandon Equipment Co., Inc. Load restraining device. 3,044,420, 7–17–62, Cl. 105—369.
Packard, Frederick W.: *See*—
Mocker, William A., Packard, and Zimsky. 3,058,160.
Packard, George B., to Barco Mfg. Co., Inc. Spraying device. 3,042,312, 7–3–62, Cl. 239—315.
Packard, George B., to Barco Mfg. Co., Inc. Fluid metering device. 3,042,313, 7–3–62, Cl. 239—318.
Packard, George B., and C. W. Monigle, to Barco Mfg. Co., Inc. Regulatable fluid mixing and spraying device. 3,042,314, 7–3–62, Cl. 239—347.
Packard, Henry, to Northrop Corp. Differential transformers. 3,045,196, 7–17–62, Cl. 336—135.
Packard, Kenneth Y.: *See*—
Estephanian, Estephan D., Packard, Clouthier, and Bonfillette. 3,020,740.
Packard, Martin E.: *See*—
Bloch, Felix, Packard, and Shoolery. 3,068,399.
Packard, Theodore. Electrically propelled service cart. 3,061,031, 10–30–62, Cl. 180—26.
Packer, D'Ore. Egg cleaning, candling and sorting machine with flexible turntable. 3,066,799, 12–4–62, Cl. 209—121.
Packer, Marvin. Polyvinyl acetate and a mixture of a compatible and incompatible plasticizer and method of preparation. 3,061,572, 10–30–62, Cl. 260—31.4.
Packer, Morton, and J. R. Arcara. Readily adjustable pressure switch. 3,022,396, 2–20–62, Cl. 200—83.
Packer, Ralph V.: *See*—
Binkley, William J., Binkley, and Packer. 3,018,026.
Binkley, William J. and C. T., and Packer. 3,025,850.
Packman, Gordon: *See*—
Long, Everett, Packman, and Gurner. 3,029,344.
Packman Machinery Ltd.: *See*—
Morton, David C., and Packman. 3,037,610.
Packman, Percival J.: *See*—
Morrison, Percival H., and Packman. 3,019,923.
Morton, David C., and Packman. 3,037,610.
Packman, Percival J. Planting machines for potatoes and other seeds. 3,020,860, 2–13–62, Cl. 111—34.
Packman, Percival J., and D. C. Morton, to Baker Perkins Ltd. Apparatus for handling substantially flat articles. 3,068,989, 12–18–62, Cl. 198—33.
Pacon Research & Development Corp.: *See*—
Shannon, Arthur V. 3,030,915.
Padalino, Marco, to International Telephone and Telegraph Corp. Signal identification system. 3,025,352, 3–13–62, Cl. 179—17.
Padberg, Louis R., Jr., F. D. Parker, and M. D. Papineau. Echo ranging system. 3,035,245, 5–15–62, Cl. 340—3.
Padberg, Louis R., Jr., F. D. Parker, J. C. Hayes, and M. D. Papineau, to United States of America, Navy. Short pulse keying attachment. 3,066,278, 11–27–62, Cl. 340—3.
Paddack, George M. Book covers. 3,059,946, 10–23–62, Cl. 281—29.
Padden, Frederick D.: *See*—
Abbott, George F., Jr., and Padden. 3,051,850.
Paddison, Eric: *See*—
Antoszewski, Eugeniusz, and Paddison. 3,048,746.
Paddison, Osborne H.: *See*—
Downing, Richard M., Fuller, Paddison, and Wyeth. 3,064,073.
Paddock, Norman L., to Albright and Wilson (Mfg.) Ltd. Production of phosphonitrilic oils. 3,026,174, 3–20–62, Cl. 23—14.
Padellford, Ralph M. Resuscitation training device. 3,068,590, 12–18–62, Cl. 35—17.
Padelt, Johannes G., and A. F. Hurlburt, to Graflex, Inc. Photographic camera. 3,039,441, 6–19–62, Cl. 121—38.
Pader, Morton, to Lever Brothers Co. Process for making table syrup and product thereof. 3,057,734, 10–9–62, Cl. 99—142.
Pader, Morton, to Lever Brothers Co. Process for preparing potato flakes. 3,067,042, 12–4–62, Cl. 99—207.
Padgett, Allen V. Apparatus for straightening vehicle frames. 3,027,930, 4–3–62, Cl. 153—32.
Padgett, Clarence G. Drip rack. 3,028,973, 4–10–62, Cl. 211—87.
Padgett, George H. Pressure arm assembly for mower blades. 3,052,078, 9–4–62, Cl. 56—305.
Padgett, Joseph, Jr.: *See*—
Masterson, Charles S. 3,029,511.
Padlo, Thelma E., to B & R Ladder Enterprises, Inc. Folding ladder. 3,024,864, 3–13–62, Cl. 182—160.
Padschus, Ernst, and W. Joseph, to Farbenfabriken Bayer Aktiengesellschaft. Treatment of silicates. 3,021,195, 2–13–62, Cl. 23—110.
Padula, Lawrence D., to Skinner Precision Industries, Inc. Electromagnetic valve. 3,022,799, 2–27–62, Cl. 137—625.27.
Paffrath, Hans-Willi: *See*—
Horn, Peter, Paffrath, Weinbrenner, and Breer. 3,052,927.
Pagan, William E. Car floor sanitizer. 3,050,329, 8–21–62, Cl. 296—1.
Pagani, Mario: *See*—
Bocca, Alberto, and Pagani. 3,057,242.
Pagano, Carmine A., E. H. P. Bigo, and R. C. P. Hinton, to International Telephone and Telegraph Corp. Electronic relay responsive to instantaneous polarity of control signal whether alternating current or direct current. 3,054,003, 9–11–62, Cl. 307—88.5.
Pagano, Frank, to Surelock Mfg. Co., Inc. Bleeder valves. 3,050,080, 8–21–62, Cl. 137—614.17.
Pagano, Ralph R. Automatic shoe shine device. 3,022,528, 2–27–62, Cl. 15—31.
Page, Ancel S., to Dura Corp. Vehicle running gear assembly for tandem axle suspension. 3,046,036, 7–24–62, Cl. 280—104.5.
Page, Beverly J.: *See*—
Page, Rory E. Re. 25,122.
Page, Edward: *See*—
Roberts, Derek A., and Page. 3,051,438.
Page, Frank R., to Scott & Williams, Inc. Clamping and cutting means for circular knitting machine. 3,019,628, 2–6–62, Cl. 66—145.
Page, Franklin H., Jr., to Du Pa Co., Inc. Resistance welding head. 3,036,199, 5–22–62, Cl. 219—86.
Page, Graham Desborough, to The Austin Motor Co. Ltd. Hydrostatic power transmissions. 3,035,593, 5–22–62, Cl. 137—56.
Page, Harry L., to Transograph Inc. Temporomandibular joint transverse hinge axis locators. 3,035,348, 5–22–62, Cl. 32—20.
Page, Irving, to Irropa Inc. Thermostat-timer mechanism. 3,043,936, 7–10–62, Cl. 200—136.3.
Page, Jack C.: *See*—
Boettcher, Stephen A., and Page. 3,040,770.
Page, James A.: *See*—
Tislow, Richard F., Bruce, and Page. 3,023,146.
Page, John E., to Federal Paper Board Co., Inc. Container for substances and method of filling. 3,053,428, 9–11–62, Cl. 229—5.7.
Page, John F.: *See*—
Spielberg, Arnold M., and Page. 3,024,445.
Page, John F., and L. A. Fernandez Rivas, to Radio Corp. of America. Information storage and transfer system. 3,059,221, 10–16–62, Cl. 340—172.5.
Page, John S.: *See*—
Magill, Robert H., and Page. 3,016,955.
Page, John S., to Page Oil Tools, Inc. Down tubing self-closing flow control valve. 3,035,641, 5–22–62, Cl. 166—72.
Page, John S., to Page Oil Tools, Inc. Apparatus for controlling the flow of production fluid from a well. 3,035,642, 5–22–62, Cl. 166—224.
Page, John S., to Page Oil Tools, Inc. Fluid pressure operated shut-off valve for wells. 3,050,132, 8–21–62, Cl. 166—224.
Page, John S., to Page Oil Tools, Inc. Apparatus for shutting off wells. 3,065,793, 11–27–62, Cl. 166—72.
Page, John S., to Page Oil Tools, Inc. Retrievable well flow control valve. 3,065,794, 11–27–62, Cl. 166—125.
Page, John S., and J. S. Page, Jr., to Page Oil Tools, Inc. Valved production packer. 3,045,755, 7–24–62, Cl. 166—129.
Page, John S., Jr.: *See*—
Page, John S., and J. S. Page, Jr. 3,045,755.

Page Oil Tools, Inc., *See*—
Magill, Robert H., and Page. 3,016,955.
Page, John S. 3,035,641.
Page, John S. 3,035,642.
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Page, John S., and J. S. Page, Jr. 3,045,755.

Page, Paul F.: *See*—
Lambert, Harry L., and Page. 3,018,870.
Lambert, Harry L., and Page. 3,045,798.

Page, Paul F., to Royal McBee Corp. Escapement mechanism. 3,028,942, 4–10–62, Cl. 197—88.

Page, Ralph E., and T. L. Buley, to International Business Machines Corp. Method of fabricating magnetic printer write heads. 3,042,999, 7–10–62, Cl. 29—155.5.

Page, Rory E., ½ to C. L. and B. L. Hope, and ½ to R. E. and B. J. Page. Safety-first underwater breathing apparatus. Re. 25,122, 2–13–62, Cl. 128—142.

Page, Wilbur M.: *See*—
Formery, George K., and Page. 3,059,434.

Pagendarm, Edward J., to Atlas General Industries, Inc. Machine for forming glued folding boxes. 3,038,389, 6–12–62, Cl. 93—51.

Pagendarm, Richard V., to Atlas General Industries, Inc. Applicator for liquid adhesive and folding box machines. 3,059,856, 10–23–62, Cl. 239—117.

Pagenhardt, Leonard C. Selective automatic switching device for model railroads. 3,030,499, 4–17–62, Cl. 246—231.

Paget, Kenneth W.: *See*—
Duncombe, Edward, and Paget. 3,058,111.

Paget, Win W., to Joy Mfg. Co. Transfer mechanism for the drill pipe of an oil field drill rig. 3,061,011, 10–30–62, Cl. 166—77.5.

Pagley, James V. Master cylinder for fluid brake systems 3,021,678 2–20–62, Cl. 60—54.6.

Pagliarini, Pietro, R. Magri, and R. Stefanini, to C. I. P. Compagnia Italiana Petrolio S.p.A. Process for preparing lead organic compounds. 3,062,853, 11–6–62, Cl. 260—437.

Pagliuca, Basilio. Exhaust back pressure reducer for internal combustion engines. 3,045,421, 7–24–62, Cl. 60—30.

Pagniez, Hughes: *See*—
Viriot, Jacques, and Pagniez. 3,061,615.

Pagoda, Walter S. Shoelace clamp. 3,065,512, 11–27–62, Cl. 24—117.

Pagonis, George A., to Light Metals Research Laboratory, Inc. Valve. 3,018,789, 1–30–62, Cl. 137—341.

Pahl, John G., to K-P-F Electric Co. Universal connector for electric wires. 3,023,391, 2–27–62, Cl. 339—31.

Pahn, Jose: *See*—
Cataldi, Maria S., Galmarini, and Pahn. 3,015,607.

Pahnke, Hans-Joachim: *See*—
Howahr, Erich, and Pahnke. 3,024,676.

Pahnke, Hans-Joachim, and W. Krohmann, to Maschinenfabrik Sack G.m.b.H. Control means for hydraulic presses. 3,024,772, 3–13–62, Cl. 121—164.

Paidar, Emil J., Co.: *See*—
Shubart, Harry S. 3,042,451.
Siegal, Burton L., and Shubart. 3,058,795.

Paige, Richard E., to Ekco Products Co. Merchandise packaging assembly. 3,018,076, 1–23–62, Cl. 248—37.3.

Paige, Walter G., to Sperry Rand Corp. Intermittent step driven clutch mechanism. 3,048,246, 8–7–62, Cl. 192—33.

Paige, William P.: *See*—
Hock, Kenneth R., and Paige. 3,067,153.

Paikert, Hans P. Pump. 3,025,801, 3–20–62, Cl. 103—132.

Pailer, Mathias: *See*—
Zellner, Hugo, Pailer, and Pruckmayr. 3,028,384.

Paillard, Edouard H., and C. A. Joly, to Machines Bull (Societe Anonyme), Compagnie des. Closure elements for cabinets and the like. 3,064,723, 11–20–62, Cl. 160—194.

Paillard S.A.: *See*—
Bacher, Eric. 3,036,686.
Bacher, Eric. 3,036,761.
Bacher, Eric. 3,053,442.
Bacher, Eric. 3,061,187.
Laurent, Francois. 3,034,404.
Moccand, Adrien, and Gagnebin. 3,034,630.
Thevenaz, Jean. 3,031,531.
Thevenaz, Jean. 3,050,227.

Pailthrop, John R., and J. F. Smith, to E. I. du Pont de Nemours and Co. Copolymers of vinylidene fluoride, hexafluoropropene, and perfluoro-2-butene. 3,056,767, 10–2–62, Cl. 260—80.5.

Paine, Robert M., and A. J. Stonehouse, to United States of America, Atomic Energy Commission. Intermetallic compositions. 3,055,816, 9–25–62, Cl. 204—154.2.

Paine, William A., II. Electro-hydraulic servo systems. 3,055,383, 9–25–62, Cl. 137—85.

Painter, Erle V., and R. C. Shepherd, to Johnson & Johnson. Apparatus for determining the sediment in cold milk. 3,049,000, 8–14–62, Cl. 73—61.

Painter, Giles W., to Lord Mfg. Co. Measurement of dynamic properties of elastomers and like flexible materials. 3,030,803, 4–24–62, Cl. 73—67.1.

Painter, Howard S.: *See*—
Fink, William C., and Painter. 3,063,277.

Painton & Co. Ltd.: *See*—
Lock, Tom. 3,048,811.

Paist, Leo, to Bolkow-Entwicklungen Kommanditgesellschaft. Control circuit for indicating the voltage drop of a battery below a predetermined value. 3,038,110, 6–5–62, Cl. 318—490.

Pajaczkowski, Andrzej, to Imperial Chemical Industries Ltd. Ethylene polymerisation. 3,019,214, 1–30–62, Cl. 260—94.9.

Pajdowski, Cleo C.: *See*—
Minella, Angelo. 3,015,501.

Pajerek, Joseph J.: *See*—
Kistner, Harold J., and Pajerek. 3,015,484.

Pak Rapid, Inc.: *See*—
Karpowicz, Benjamin, Jr. 3,030,747.

Pakkala, Lauri. Vat containing a paddle wheel for the treatment of untanned leather. 3,060,715, 10–30–62, Cl. 69—29.

Pakkala, Matti H.: *See*—
Manganello, Samuel J., and Pakkala. 3,062,692.
Mangangello, Samuel J., and Pakkala. 3,065,069.

Pako Corp.: *See*—
Clapp, Roy A. 3,049,969.
Maddock, Ralph B. 3,018,935.

Paktronic Machine Corp.: *See*—
Kendall, Harold M., and Krizka. 3,069,980.

Pakulak, Jack M., Jr., and G. W. Leonard. Thermistorized apparatus for differential thermal analysis. 3,033,020, 5–8–62, Cl. 73—15.

Palamenti, Albert, to Koppers Co., Inc. Free-wheeling scorer head. 3,053,154, 9–11–62, Cl. 93—58.2.

Palasciano, Felice V., to Burroughs Corp. Item handling apparatus. 3,022,907, 2–27–62, Cl. 214—11.

Palasthy, Edward S., to United States of America, Army. Metal back-up ring. 3,059,939, 10–23–62, Cl. 277—176.

Palasvirta, Ossi E., and G. H. Sundin, to United States Steel Corp. Rotors for high-intensity magnetic separators. 3,024,910, 3–13–62, Cl. 209—219.

Palatine Dyeing Co., Inc.: *See*—
Cannell, Thomas F., and Rockefeller. 3,068,544.

Palatini, Benno. Surface covering. 3,025,772, 3–20–62, Cl. 94—4.

Palazzo, Anthony to S. Pelosi, Jr., and J. Pelosi. Travel pocket. 3,047,877, 8–7–62, Cl. 2—94.

Palazzo, Dominic F., and W. C. Schreiner, to The M. W. Kellogg Co. Separation of hydrogen and methane. 3,026,682, 3–27–62, Cl. 62—17.

Palazzo, Dominic F., and W. C. Schreiner, to The M. W. Kellogg Co. Separation of hydrogen and methane. 3,026,683, 3–27–62, Cl. 62—17.

Palazzolo, Ernesto, to F. Angelini (d.b.a. Aziende Chimiche Riunite Francesco Angelini). Halo and phenyl substituted phenyl lower alkyl carbinol mono esters of succinic, glutaric, and maleic acids. 3,061,634, 10–30–62, Cl. 260—485.

Palazzolo, Henry. Differential gearing-actuated work holder clamp. 3,050,301, 8–21–62, Cl. 269—218.

Palcanis, Franklin G., and T. M. Lynam, to Esso Research and Engineering Co. Marine loading arm. 3,050,092, 8–21–62, Cl. 141—387.

Palermo, Peter M., and R. A. Briggs. Portable strain gage testing device. 3,031,618, 4–24–62, Cl. 324—65.

Palermo, Vincent J. Switch. 3,027,434, 3–27–62, Cl. 200—51.

Palevsky, Harry N.: *See*—
Shawhan, Elbert N., McLean, Palevsky, and Mather. 3,020,470.

Palevsky, Max: *See*—
Beck, Robert M., Mitchell, Palevsky, and Ruhman. 3,029,023.
Beck, Robert M., and Palevsky. 3,059,228.

Paley, Warren D., to United States of America, Navy. Thyratron firing circuit. 3,022,732, 2–27–62, Cl. 102—70.2.

Palfey, Albert J., to The Dow Chemical Co. Extruder apparatus. 3,023,456, 3–6–62, Cl. 18—12.

Palfey, Albert J., to The Dow Chemical Co. Valve for controlling back pressure in plastic extruders. 3,050,084, 8–21–62, Cl. 137—625.32.

Palilla, Frank C.: *See*—
Morrison, George H., and Palilla. 3,031,414.
Morrison, George H., and Palilla. 3,031,415.
Morrison, George H., and Palilla. 3,031,416.

Palinchak, Stephen: *See*—
Yurgen, William J., Bennett, and Palinchak. 3,054,843.

Palino, Raymond D.: *See*—
Burtt, Jack R., Palino, and Staiger. 3,047,271.

Paliz-Holding A.G.: *See*—
Beerli, Fridolin. 3,024,632.
Bram, Walter. 3,040,981.
Bram, Walter. 3,049,900.

Palko, Andrew. Oil burner. 3,035,633, 5–22–62, Cl. 158—68.

Pall Corp.: *See*—
Pall, David B. 3,035,703.
Pall, David B. 3,049,894.
Pall, David B. 3,049,796.
Pall, David B. 3,057,481.
Pall, David B. 3,061,917.
Pall, David B., and Krakauer. 3,048,537.

Pall, David B., to Pall Corp. Magnetic filter unit. 3,035,703, 5–22–62, Cl. 210—223.

Pall, David B., to Pall Corp. Filter. 3,040,894, 6–26–62, Cl. 210—90.

Pall, David B., to Pall Corp. Perforate metal sheets. 3,049,796, 8–21–62, Cl. 29—183.5.

Pall, David B., to Pall Corp. Corrugated filter and method of forming the same. 3,057,481, 10–9–62, Cl. 210—493.

Pall, David B., to Pall Corp. Method of mending filter elements and product thereof. 3,061,917, 11–6–62, Cl. 29—401.

Pall, David B., and S. Krakauer, to Pall Corp. Porous articles of polyethylene polymers and process of making the same. 3,048,537, 8–7–62, Cl. 210—510.

Palladino, Frank, to Precision Coin Devices, Inc. Electric timing mechanism. 3,042,762, 7–3–62, Cl. 200—38.

Palladino, Nunzio J.: *See*—
Sherman, Jerome, Sharbaugh, Fauth, Palladino, and De Huff. 3,060,111.

Pallansch, Michael J.: *See*—
Leviton, Abraham, and Pallansch. 3,031,315.
Leviton, Abraham, and Pallansch. 3,065,086.

Paller, Frederick C., to Superior Industries, Inc. Universal overload spring for leaf spring assemblies of vehicles. 3,039,759, 6–19–62, Cl. 267—48.

Pallet Devices Inc.: *See*—
Budd, Larry J. 3,052,397.
Budd, Larry J. 3,058,585.

Pallmann, Ludwig, Maschinenfabrik und Mahlwerk, KG.: *See*—
Pallmann, Wilhelm. 3,069,103.

Pallmann, Wilhelm, to Ludwig Pallmann Maschinenfabrik und Mahlwerk, KG. Breaking mill. 3,069,103, 12–18–62, Cl. 241—251.

Pallme, Ernest H.: *See*—
Kenyon, Theodore W., and Pallme. 3,036,176.

Pallme, George E., Jr.: *See*—
Moehlenpah, Walter G., and Pallme. 3,068,483.
Moehlenpah, Walter G., and Pallme. 3,068,484.
Moehlenpah, Walter G., and Pallme. 3,069,684.

Palm, Albert: *See*—
Merkel, Karl, and Palm. 3,051,708.

Palm, Bertil E. Rotary screening apparatus for separating different kinds of materials in mixtures. 3,062,375, 11–6–62, Cl. 209—303.

Palm, Björn O. M.: *See*—
Mälmstrom, Carl, and Palm. 3,016,948.
Malmström, Carl, and Palm. 3,040,803.

Palm, Christof: *See*—
Fischer, Ernst O., and Palm. 3,032,572.

Palm, Clifford W., and R. L. Bragg, to Celanese Corp. of America. Air jet. 3,022,563, 2–27–62, Cl. 28—1.

Palm, Ernst, to Bodenseewerk, Perkins-Elmer & Co., G.m.b.H. Gas chromatography. 3,063,051, 11–6–62, Cl. 346—33.

Palm, Felix. Toy objects. 3,044,211, 7–17–62, Cl. 46—11.

Palm, Felix. Cut-out action toy. 3,055,142, 9–25–62, Cl. 46—123.

Palm, James W., to Borg-Warner Corp. Non-rotating sprag coupling. 3,017,210, 1–16–62, Cl. 287—114.

Palma, James R. Bottle washing, filling, capping and sterilizing device. 3,058,276, 10–16–62, Cl. 53—167.

Palma, Joseph, Jr., and J. G. Knapp, to American-Marietta Co. Self-wringing mop. 3,026,554, 3–27–62, Cl. 15—119.

Palmbeck, Louis, Jr.: *See*—
Barney, Arthur L., Engelhardt, and Palmbeck. 3,046,-127.

Palmberg, John A. Power loading device. 3,028,026, 4–3–62, Cl. 214—140.

Palmer Aero Products Ltd.: *See*—
Cooper, Thomas H., and Goward. 3,067,799.

Palmer, Alex D. Teaching device. 3,021,612, 2–20–62, Cl. 35—9.

Palmer, Alex D. Teaching device. 3,032,892, 5–8–62, Cl. 35—9.

Palmer, Alex D. Teaching device. 3,054,195, 9–18–62, Cl. 35—9.

Palmer, Charles E. Interlocking engagement for a plastic blank. 3,019,957, 2–6–62, Cl. 229—16.

Palmer, Charles E. Plastic containers. 3,062,366, 11–6–62, Cl. 206—44.12.

Palmer, Charles E. and R. H. Filter bed agitator. 3,039,612, 6–19–62, Cl. 210—272.

Palmer, Charles G., to Borg-Warner Corp. Indicating system. 3,062,443, 11–6–62. Cl. 235—132.

Palmer Chemical and Equipment Co., Inc.: *See*—
Crockford, Jack A., Hayes, Jenkins, and Feurt. Re. 25,279.

Palmer, Clarence B. Guard device. 3,051,524, 8–28–62, Cl. 296—100.

Palmer, Clayton D. Decov. 3,029,541, 4–17–62, Cl. 43—3.

Palmer, Dale W., and W. R. McTaggart. Ski trainer. 3,021,-137, 2–13–62, Cl. 272—57.

Palmer, Elmer D. Wheel-balancing assembly for truck wheels and the like. 3,017,224, 1–16–62, Cl. 301—5.

Palmer, Gerhard, and A. Kuchar, to Mauz & Pfeiffer. Electric floor polisher or the like. 3,066,340, 12–4–62, Cl. 15—49.

Palmer, Harry R., and M. P. Prater, to International Business Machines Corp. Stencil aperture tabulating card. 3,020,836, 2–13–62, Cl. 101—125.

Palmer, Jessie H. Refrigerated garbage storage device. 3,041,852, 7–3–62, Cl. 62—334.

Palmer, John A., and M. P. Burroughs, Jr., to The Emerson Electric Mfg. Co. Radial arm saw. 3,023,792, 3–6–62, Cl. 143—6.

Palmer, John R. Method of making a bracket. 3,032,769, 5–8–62, Cl. 1—66.

Palmer, John S. Golf club. 3,037,770, 6–5–62, Cl. 273—80.

Palmer, Joseph C.: *See*—
Ragland, William F., and Palmer. 3,055,668.

Palmer, Karl, and W. L. Hinman, to Westinghouse Electric Corp. Contact making devices. 3,048,676, 8–7–62, Cl. 200—87.

Palmer, Leon E., to International Business Machines Corp. Escapement mechanism for typewrter. 3,059,751, 10–23–62, Cl. 197—83.

Palmer, Lewis E., to Union Insulating Co., Inc. Molded plastic outlet boxes with attached metal mounting brackets. 3,040,-926, 6–26–62, Cl. 220—3.9.

Palmer, Marianne C.: *See*—
Palmer, Robert E. 3,021,973.

Palmer, Max. Voltage regulator. 3,018,432, 1–23–62, Cl. 323—66.

Palmer, Maxwell R.: *See*—
Wilson, Porter C., and Palmer. 3,018,775.

Palmer, Norris L. Infant's crib toy. 3,060,628, 10–30–62, Cl. 46—59.

Palmer, Peter V.: *See*—
Taite, William G., Varvill, Palmer, and Tait. 3,069,336.

Palmer, Rex B. Knee brace. 3,055,359, 9–25–62, Cl. 128—80.

Palmer, Richard M. Toe-tip vacuum-operated clutch control system. 3,063,525, 11–13–62, Cl. 192—.075.

Palmer, Robert C., and G. J. Morris, to Sinclair Refining Co. Power transmitting fluids. 3,049,494, 8–14–62, Cl. 252—75.

Palmer, Robert E., 50% to M. C. Palmer, and 50% to R. L. Palmer. Wire bottle carrier. 3,021,973, 2–20–62, Cl. 215—100.

Palmer, Robert H.: *See*—
Palmer, Charles E. and R. H. 3,039,612.

Palmer, Roberta L.: *See*—
Palmer, Robert E. 3,021,973.

Palmer, Roy D.: *See*—
Cozzo, Giuseppe, and Palmer. 3,019,669.

Palmer-Shile Co.: *See*—
Baker, Edward A., Jr. 3,044,633.

Palmer Thermometers, Inc.: *See*—
Mitchell, Curtis P. 3,049,923.
Stiens, Robert B. 3,016,038.

Palmer, Vernon J.: *See*—
Veitel, Robert D., and Palmer. 3,037,633.

Palmer, Walter T.: *See*—
Taggart, Everett R., and Palmer. 3,025,953.

Palmer, Willard E.: *See*—
Davis, James O., Fogel, and Palmer. 3,069,228.

Palmer, William F., to Sylvania Electric Products Inc. Apparatus for operating gaseous discharge lamps from a D.C. source. 3,066,241, 11–27–62, Cl. 315—99.

Palmer, Willis W., to Auto-Chlor System, Inc. Liquid detergent dispenser for dishwasher and valve therefor. 3,053,-419, 9–11–62, Cl. 222—189.

Palmgren, Sten G.: *See*—
Mitchell, Reid L., Albohn, and Palmgren. 3,045,007.

Palmieri, Nicola, to Pirelli Societa per Azioni. Sealing ends for high tension electric cables. 3,049,581, 8–14–62, Cl. 174—73.

Palmieri, Nicola, to Pirelli S.p.A. Normal joint for high tension cables and process of making the same. 3,051,770, 8–28–62, Cl. 174—22.

Palmiter, Daniel A., to Hyster Co. Earth compaction roll 3,067,658, 12–11–62, Cl. 94—50.

Palmiter, Russell B., to Marquardt Corp. Electronic character generating and displaying apparatus. 3,047,851, 7–31–62. Cl. 340—324.

Palmore, Robert A.: *See*—
Getzin, Allan R., and Palmore. 3,041,807.
Ortgies, Raymond C., and Palmore. 3,063,221.

Palmore, Wayne, III, to American Lava Corp. Metal-to-ceramic seals. 3,063,144, 11–13–62, Cl. 29—473.1.

Palmquist, Clarence L., to Mandrel Industries, Inc. Internal ejection apparatus. 3,058,588, 10–16–62, Cl. 209—74.

Palmquist, Philip V., E. L. McKenzie, and T. L. Harrington, to Minnesota Mining and Mfg. Co. Reflective marking aggregate. 3,043,196, 7–10–62, Cl. 88—82.

Palmquist, William W.: *See*—
Raub, Samuel H. S., Alton, Joachim, and Palmquist. 3,044,489.

Palmqvist, Frederik T. E., to Aktiebolaget Separator. Apparatus for continuous chemical reactions. 3,066,015, 11–27–62, Cl. 23—285.

Palmqvist, Sven R., and N. H. Brundin, ¾ to Tholand, Inc., and ¼ to said Brundin. Making micro-porous, discrete, few micron size oxide compounds of metals, and the products. 3,024,088, 3–6–62, Cl. 23—143.

Palombo, Albert J.: *See*—
Sanders, Joseph J. 3,060,114.

Palombo, Albert M., to American Metaseal of Massachusetts, Inc. Foamed cellular synthetic material impregnated with a wetting agent. 3,049,444, 8–14–62, Cl. 117—138.8.

Palombo, Gabriel: *See*—
Siegel, Malcolm, Palombo, and Baumgarten. 3,042,586.

Palopoli, Frank P., and W. L. Kuhn, to Richardson-Merell Inc. 1,1-dicyclohexyl-2-(2-piperidyl)ethylene. 3,038,905, 6–12–62, Cl. 260—293.

Palos, Garbor. Mounting for gun cameras. 3,062,114, 11–6–62, Cl. 95—12.

Pals, Raimond: *See*—
Cassidy, Joseph, Pals, and Harris. 3,054,656.
Tidridge, William A., and Pals. 3,030,213.

Palthe, Bertold R. v. W., to North American Philips Co., Inc. Packing for ampullas or similar container. 3,024,076, 3–6–62, Cl. 312—236.

Palthe, Richard W.: *See*—
Newell, Chester W., and Palthe. 3,038,034.

Paltier Corp., The: *See*—
Skubic, Leroy F. 3,028,186.

Paluka, Charles F., to General Mills, Inc. Vehicle guidance system. 3,038,970, 6–12–62, Cl. 191—2.

Paluszkiewicz, Richard S., and E. P. Geyer, to Pioneer Specialty Co. Telescopic antenna. 3,042,416, 7–3–62, Cl. 277—30.

Pambello, Samuel M. Fire extinguishing apparatus. 3,040,-815, 6–26–62, Cl. 169—1.

Pambello, Samuel M. Portable, convertible chair cradle for child. 3,054,637, 9–18–62, Cl. 297—4.

Pamelard, Georges: *See*—
Charles, Daniel R., Velte, Dreyfus, and Pamelard. 3,041,840.

Pamm, Georges, to E. I. du Pont de Nemours and Co. Process for treating tire cord. 3,050,820, 8–28–62, Cl. 28—75.

Pamphilis, Harry. Paint applicator device. 3,051,977, 9–4–62, Cl. 15—210.

Pampus, Gottfried: *See*—
Müller, Adam, and Pampus. 3,058,880.

Pan, Paul M., to General Electric Co. Helical antenna null suppressor. 3,015,823, 1–2–62, Cl. 343—895.

Pan, Paul M., to General Electric Co. Antenna structure. 3,019,438, 1–30–62, Cl. 343—843.

Pan, Paul M., and C. B. Mayer, to General Electric Co. Helical antennas coupled to circular waveguide carrying orthogonal modes. 3,066,294, 11–27–62, Cl. 343—843.

Pan, Samuel C.: *See*—
Weisenborn, Frank L., and Pan. 3,022,311.

Pan, Wen Y., to Radio Corp. of America. Variable tuning circuit. 3,029,339, 4–10–62, Cl. 250—20.

Pan American Laboratories, Inc.: *See*—
Sein, Roberto. 3,016,895.

Pan American Petroleum Corp.: *See*—
Anderson, Duane B., and Lummus. 3,057,797.
Anderson, Duane B., and Park. 3,022,248.
Bearden, William G., Fast, and Howard. 3,065,791.
Bearden, William G., and Stall. 3,070,450.
Berry, Virgil J., Jr., Leach, and Wagner. 3,028,912.
Bricker, Clyde H. 3,016,617.
Elkins, Lloyd E. 3,050,118.
Evans, Julian F. 3,061,037.
Fast, Clarence R., Howard, and Lubinski. 3,050,119.
Flickinger, Don H. 3,028,914.
Frederickson, Arman F., Hower, and Reynolds. 3,022,140.
Fust, Clarence R., and Howard. 3,033,286.
Gallus, Julius P. 3,040,820.
Geyer, Robert L. 3,061,813.
Grekel, Howard, and Hujsak. 3,057,698.
Hill, Ralph W. 3,036,455.
Jennings, Earl R. 3,028,915.
Jones, Loyd W. 3,024,191.
Jones, Loyd W. 3,033,784.
Jones, Loyd W. 3,066,097.
Lash, Charles C. 3,024,442.
Lubinski, Arthur. 3,065,633.
Lummus, James L., and Anderson. 3,041,275.
Lummus, James L., and Martin. 3,050,141.
Lummus, James L., and Scott. 3,016,962.
Mallinger, Morton A. 3,057,405.
Martner, Samuel T., and Sparks. 3,065,814.
McSpadden, Thomas W. 3,050,120.
Natho, Paul J. Jr. 3,050,109.
Scott, Platho P., Jr. 3,070,543.
Scott, Platho P., Jr., Anderson, and Park. 3,017,351.
Silverman, Daniel. 3,057,296.
Vincent, Renic P. 3,016,844.
Vincent, Renic F. 3,047,065.
Widess, Moses B. 3,040,821.
Widess, Moses B. 3,066,300.
Wilder, Lawrence B. 3,040,710.

Pan American Resources, Inc.: *See*—
Lantz, Dae C. 3,020,212.

Pan American Window Corp.: *See*—
Mathews, William J. 3,052,930.

Panay, Takis N. Sound producer. 3,022,385, 2–20–62, Cl. 179—113.

Panchak, George: *See*—
Grafstein, Paul L., Meisel, and Panchak. 3,047,225.

Pancotti, Mario. Portable organ. 3,030,844, 4–24–62, Cl. 84—355.

Pancrazi, Alex, to Sparkle-Top Corp. Plastic closure members for champagne bottles. 3,025,990, 3–20–62, Cl. 215—47.

Pancrazi, Alexander. Bottle neck foiling device. 3,039,250, 6–19–62, Cl. 53—329.

Pandelis, Charles R.: *See*—
Ward, Charles T., Oliver, and Pandelis. 3,025,596.

Pandjiris Weldment Co.: *See*—
Cooper, Cleveland N. 3,042,239.
Wuesthoff, Paul P. 3,031,566.

Panellit, Inc.: *See*—
Good, Louis G. 3,037,384.

Panepinto, Anthony. Garment support. 3,052,891, 9–11–62, Cl. 2—301.

Panfil, Jack. Means for closing fragile stuffed casings. 3,026,521, 3–27–62, Cl. 1—329.

Pangborn Corp.: *See*—
Fahrney, Maxwell E., and Powell. 3,048,947.
Moore, Ralph W. 3,063,207.
Powell, George W., and Bottorf. 3,069,811.
Vedder, Walter O., and Gibby. 3,053,031.
Vedder, Walter O., and Patronik. 3,021,376.

Panhandle Eastern Pipe Line Co.: *See*—
Bergman, Stephen A., and Cockrell. 3,063,079.
Bergman, Stephen A., and Cockrell. 3,063,080.
Larberg, Harlan A. 3,051,390.

Paniagua, Juan G. Bottle cap seal. 3,051,342, 8–28–62, Cl. 215—40.

Panicci, Richard L., to Hampden Specialty Products Corp. Three piece chaise lounge. 3,029,104, 4–10–62, Cl. 297—35.

Panicci, Richard L., to Hampden Specialty Products Corp. Folding chair with arms. 3,058,773, 10–16–62, Cl. 297—35.

Panico, Anthony, Jr. Bubble-forming method and apparatus. 3,060,626, 10–30–62, Cl. 46—7.

Panissidi, Hugo A., to International Business Machines Corp. Record punching machines. 3,029,013, 4–10–62, Cl. 234—109.

Panissidi, Hugo A., to International Business Machines Corp. Fluid apparatus. 3,058,310, 10–16–62, Cl. 60—97.

Pankonin, William G., to Triangle Tools Mfg. Co. Stapling device. 3,056,584, 10–2–62, Cl. 254—28.

Pankove, Jacques I., to Radio Corp. of America. Cryoelectric circuits employing superconductive contact between two superconductive elements. 3,047,744, 7–31–62, Cl. 307—88.5.

Pankove, Jacques I., to Radio Corp. of America. Semiconductor devices. 3,065,392, 11–20–62, Cl. 317—235.

Pankow, Melvin W. Reversible bit drill attachment. 3,023,-015, 2–27–62, Cl. 279—14.

Pankratz, A. J.: *See*—
Hill, Frank A., and Pankratz. 3,027,468.

Pankratz, A. J., R. M. Shoemaker, and E. S. Steen, to General Precision, Inc. Endless tape system. 3,048,315, 8–7–62, Cl. 226—118.

Pannell, Calvin E., to Shell Oil Co. Epoxy ethers, their preparation and cure. 3,058,921, 10–16–62, Cl. 260—2.

Pannenborg, Anton E., and A. E. M. Calon, to North American Philips Co., Inc. Frequency wave-filter. 3,042,883, 7–3–62, Cl. 333—10.

Pannier Corp., The: *See*—
Pannier, Ralph A. 3,034,431.

Pannier, Ralph A., to The Pannier Corp. Magnetic die holder. 3,034,431, 5–15–62, Cl. 101—382.

Pannier, Richard H. Livestock feeder. 3,019,766, 2–6–62, Cl. 119—53.5.

Panning, Martin H., and B. R. Curry, to Blower Application Co. Flow regulator for air control. 3,068,891, 12–18–62, Cl. 137—499.

Panning, Martin H., and B. R. Curry, to Blower Application Co. Automatic air flow regulating valve. 3,068,892, 12–18–62, Cl. 137—499.

Panoramic Electronics, Inc.: *See*—
Hurvitz, Hyman. 3,032,712.

Panoramic Radio Products, Inc.: *See*—
Ransky, Reia. 3,047,823.

Pansini, Andrew L. Automatic swimming pool cleaner. 3,032,044, 5–1–62, Cl. 134—111.

Pansini, Andrew L. Device for the cleaning of swimming pools and the like. 3,063,077, 11–13–62, Cl. 15—1.7.

Pantas, Leo J., to The Yale and Towne Mfg. Co. Escutcheon plate. 3,041,720, 7–3–62, Cl. 29—556.

Panter, Carl, to Toledo Scale Corp. Mechanism for advancing and retracting safe edges carried by elevator doors. 3,040,-839, 6–26–62, Cl. 187—52.

Pantermoller, Carl. Cooking apparatus. 3,020,824, 2–13–62, Cl. 99—346.

Pantke, Heinz-Dieter: *See*—
Von Bogdandy, Ludwig, and Pantke. 3,043,668.

Pantlitschko, Martin, to Anton von Waldheim Chem.-Pharm. Fabrik. New N_3-halogenoalkyl-phenyl-sulfonyl-N_2-substituted ureas, and the corresponding cyclohexyl compounds. 3,069,466, 12–18–62, Cl. 260—553.

Panto, Joseph S.: *See*—
Burr, Francis K., and Panto. 3,043,719.

Panzer, Jerome, and R. A. Westlund, Jr., to Esso Research and Engineering Co. Lubricating compositions. 3,019,187, 1–30–62, Cl. 252—33.3.

Panzer, Siegfried, to Carl Zeiss. High direct voltage generating units. 3,043,766, 8–7–62, Cl. 321—15.

Paolicelli, Eustace V. Blade iron for a carpenter's plane. 3,068,921, 12–18–62, Cl. 145—17.

Paolino, Charles, Jr., to Westinghouse Air Brake Co. Circuit controllers. 3,030,478, 4–17–62, Cl. 200—153.

Pápa, Alfréd, G. Szilvay, and J. Zombory, to Licencia Lalalmanyokat Ertekesito Vallalat. Hot bulb internal combustion engine and a method of operating the same. 3,044,455, 7–17–62, Cl. 123—32.

Papa, René. Container constituting a dismantlable flower pot. 3,047,183, 7–31–62, Cl. 220—4.

Papacek, Frank C. Sanitary frostproof hydrant. 3,017,896, 1–23–62, Cl. 137—282.

Papadopoulos, Michael N.: *See*—
Redlich, Otto, and Papadopoulos. 3,065,059.

Papageorges, Demetre. Method for mounting a pulley on a shaft. 3,043,613, 7–10–62, Cl. 287—52.06.

Papaila, John: *See*—
Huitt, Jimmie L., McGlothlin, and Papaila. 3,026,938.

Papapanu, James A., to Carrier Corp. Absorption refrigeration systems and method of operating the same. 3,019,616, 2–6–62, Cl. 62—141.

Paparelli, Joseph, to Kastar Inc. Adjustable tool. 3,063,-147, 11–13–62, Cl. 30—154.

Papazian, Garabed S. Metering and dispensing valve attachment. 3,065,884, 11–27–62, Cl. 222—332.

Pape, Ernest H. Lifting and carrying device. 3,017,214, 1–16–62, Cl. 294—31.

Pape, Hans-Martin, to Gustav F. Gerdts, K.G. Automatic multistage regulating nozzle. 3,037,518, 6–5–62, Cl. 137—183.

Paper Calmenson & Co.: *See*—
Eilers, Howard F. 3,045,934.

Paper Converting Machine Co., Inc.: *See*—
Kwitek, Edwin M. 3,056,323.
Nystrand, Ernst D. 3,041,967.
Nystrand, Ernst D., and Small. 3,063,367.
Sanders, Charles J. 3,064,862.

Paper Machinery Corp.: *See*—
Loeser, Donald B. 3,057,515.
Loeser, Donald B. 3,065,677.
Loeser, Donald B., and Bodendoerfer. 3,065,676.

Paper Mate Mfg. Co.: *See*—
Scriver, Frank H., and Marcotte. 3,019,768.

Paper Sacks Ltd.: *See*—
Stevens, George A. 3,045,407.

Papero, Patrick V., Jr., and B. M. Helfaer, to Allied Chemical Corp. Process for producing epsilon-caprolactam polymer with heat and weathering stability. 3,065,208, 11–20–62, Cl. 260—78.

Papesch, Viktor: *See*—
Dodson, Raymond M., and Papesch. 3,037,027.

Papesch, Viktor, to G. D. Searle & Co. Isoxazolo[4,3-d]pyrimidines and intermediates. 3,056,781, 10–2–62, Cl. 260—249.5.

Papesch, Viktor, to G. D. Searle & Co. Alkyl and alkoxy derivatives of 5,7-dialkyl-6,8-dioxo-5,6,7,8-tetrahydro-1,2,3-triazino[5,5-d]pyrimidines. 3,056,782, 10–2–62, Cl. 260—249.5.

Papesch, Viktor, and R. M. Dodson, to G. D. Searle & Co. 4-chloro-1,2,3-triazino[5,4-d]pyrimidines. 3,056,783, 10–2–62, Cl. 260—249.5.

Papesh, Edward F. Model rocket and parachute assembly. 3,015,274, 1–2–62, Cl. 102—34.1.

Papeteries Mougeot: *See*—
Lallemand, Roger H., and Ragon. 3,057,134.

Papineau, Milton D.: *See*—
Padberg, Louis R., Jr., Parker, Hayes, and Papineau. 3,066,278.
Padberg, Louis R., Jr., Parker, and Papineau. 3,035,245.

Papineau, Milton D. Passive wave propagation direction indicator. 3,042,897, 7–3–62, Cl. 340—6.

Papke, Daryl M.: *See*—
Manning, Frank W., Groothuis, Lykins, Mahoney, and Papke. 3,038,997.

Papke, Friedrich, to Voigtlander A.G. Range finder for photographic cameras. 3,016,786, 1–16–62, Cl. 88—2.4.

Papke, Friedrich, to Voigtlander A.G. Photographic viewfinder of the Albada-Newton type. 3,024,691, 3–13–62, Cl. 88—1.5.

Papke, Friedrich, to Voigtlander A.G. Block type Albada finder with curved picture frame. 3,041,918, 7–3–62, Cl. 88—1.5.

Papke, Friedrich, to Voigtlander A.G. Camera with built-in block type Albada viewfinder and integrated optical means for viewing a measuring instrument pointer. 3,043,180, 7–10–62, Cl. 88—1.5.

Papke, Friedrich, to Voigtlander A.G. Viewfinder for single lens reflex cameras. 3,052,169, 9–4–62, Cl. 95—42.

Papke, Friedrich, to Voigtlander A.G. Block type Albada viewfinder. 3,062,086, 11–6–62, Cl. 88—1.5.

Papke, Wolfgang: *See*—
Meigel, Helmut, Laas, and Papke. 3,026,376.

Papo, Maurice: *See*—
Estrems, Eugeni, and Papo. 3,052,903.

Papo, Maurice, to International Business Machines Corp. Matrix switching and computing systems. 3,069,086, 12–18–62, Cl. 235—176.

Papo, Maurice, and E. Kouzmine, to International Business Machines Corp. Tabulating and computing machine. 3,024,989, 3–13–62, Cl. 235—151.

Papp, Andre V., to Canada Wire and Cable Co. Ltd. Machine for applying helical stripe to wire. 3,039,430, 6–19–62, Cl. 118—221.

Papp, George, to International Telephone and Telegraph Corp. Wave detector. 3,041,543, 6–26–62, Cl. 329—162.

Papp, Henry: *See*—
Sovia, Cedric C., and Papp. 3,021,079.
Sovia, Cedric C., and Papp. 3,063,600.

Pappano, Harry A., and G. J. Whitley, to Radio Corp. of America. Power cord adaptors. 3,052,865, 9–4–62, Cl. 339—126.

Pappas, Edward I. Bottle closures. 3,051,343, 8–28–62, Cl. 215—52.

Pappas, John N.: *See*—
Machain, Eugene J., and Pappas. 3,025,386.

Pappas, Peter E.: *See*—
Draganjac, Michael J., Kleinhample, and Pappas. 3,035,232.

Pappas, Phillip M. Counter type cooking and warming equipment. 3,046,972, 7–31–62, Cl. 126—37.

Pappis, James, and R. E. Stapleton, to Trionics Corp. Micromolecular resistor. 3,056,938, 10–2–62, Cl. 338—309.

Pappo, Raphael, to G. D. Searle & Co. 17β,18-bisoxygenated androst-4-en-3-ones and intermediate. 3,017,410, 1–16–62, Cl. 260—239.55.

Pappo, Raphael, to G. D. Searle & Co. 13β-carboxy-17β-hydroxy-10β-methylgon-4-en-3-one, derivatives thereof and intermediates thereto. 3,043,836, 7–10–62, Cl. 260—239.57.

Pappo, Raphael, to G. D. Searle & Co. 18-dimethylamino steroids and intermediates. 3,063,987, 11–13–62, Cl. 260—239.5.

Papps, Joseph S., and R. J. Spencer. Hole position gauging means. 3,026,621, 3–27–62, Cl. 33—174.

Paprzycki, Herman: *See*—
Kennedy, Edward, Martinez, Paprzycki, and Stabilito. 3,028,713.
Kennedy, Edward, Martinez, Paprzycki, and Stabilito. 3,064,406.

Paps, Costis J. Method of packaging articles. 3,061,986, 11–6–62, Cl. 53—48.

Papsdorf, Robert A.: *See*—
Watt, James, and Papsdorf. 3,031,946.

Papsdorf, Robert A., to Emerson-Pryne Co. Cover attaching assembly. 3,044,106, 7–17–62, Cl. 16—179.

Papsdorf, Robert A., to Emerson Pryne Co. Shutter assembly for exhaust duct wall cap. 3,057,288, 10–9–62, Cl. 98—119.

Papsdorf, Waldo: *See*—
Spears, Earl M., and Papsdorf. 3,043,302.

Papst, Hermann. Winding motor. 3,032,666, 5–1–62, Cl. 310—.

Papst, Hermann. Magnetic tape apparatus. 3,038,678, 6–12–62. Cl. 242—55.12.

Papst, Hermann. Slot closers for hysteresis motors. 3,054,-009, 9–11–62, Cl. 310—214.

Papst, Walter. Rocking horse and like shell-like structures made from synthetic material. 3,053,534, 9–11–62, Cl. 272—52.

Paquay, David C., to F. A. Brandes, Sr. Strip feeding mechanism. 3,023,976, 3–6–62, Cl. 242—75.42.

Paquet, Jean A. G., to Lignes Telegraphiques & Telephoniques. Gain stabilized amplifier system. 3,020,487, 2–6–62, Cl. 330—51.

Paquette, Donald R., to United States of America, Commerce. Linear capacitive probe detecting device. 3,031,617, 4–24–62, Cl. 324—61.

Paquette, Kenneth N., to The Shaw-Walker Co. Posture chair. 3,056,630, 10–2–62, Cl. 297—353.

Paquot, Charles, D. Lefort, and J. Sorba, to Centre National de la Recherche Scientifique. Preparation of long-chain primary aliphatic alcohols. 3,020,320, 2–6–62, Cl. 260—638.

Paquot, Charles, and R. Perron, to Centre National de la Recherche Scientifique. Method of preparation of diacid-polyketones. 3,061,639, 10–30–62, Cl. 260—537.

Parachem Corp.: *See*—
Greene, John P. 3,051,352.

Parachutes Inc.: *See*—
Istel, Jacques A., and Sanborn. 3,043,543.

Paradis, Paul: *See*—
Grabowsky, Murray, and Paradis. 3,039,348.

Paradise, Ronald Y.: *See*—
Naydan, Bob N., and Paradise. 3,028,550.
Nye, Dudley D., and Paradise. 3,048,770.

Paradise, Ronald Y., and B. N. Naydan, to General Precision, Inc. Digital to analog converter. 3,042,911, 7–3–62, Cl. 340—347.

Paradowsky, Theodore De: *See*—
Begun, Semi J., Paradowsky, and Gehman. 3,032,765.

Paradynamics, Inc.: *See*—
Zinke, Otto H. 3,059,749.

Paragon Development, Inc.: *See*—
Holsinger, Wilbur V. 3,059,803.

Paragon Electric Co.: *See*—
Everard, Joseph J., and Rulseh. 3,052,765.

Paragon Products Corp.: *See*—
Scholz, Michael P. 3,056,298.

Parain, Jacques, to Commissariat a l'Energie Atomique. Variable induction magnets of the type used in synchrotrons. 3,056,069, 9–25–62, Cl. 317—158.

Parameters, Inc.: *See*—
Reimer, Frederick, and Hirschberger. 3,049,102.

Paramount Pictures Corp.: *See*—
Court, Patrick R. J., Akrell, and Lowitz. 3,041,389.
Kaspercwicz, Henry, and Suehnholz. 3,067,349.
Reiter, Abraham M. 3,059,054.
Weiss, Phil H. 3,054,857.
Wendt, Karl R. 3,048,822.

Paramount Textile Machinery Co.: *See*—
Albertson, Walter H. and L. J. 3,066,840.
Peach, Clyde E. 3,026,869.

Paramythioti, Jean M., to Societe Anonyme des Anciens Etablissements Albaret. Power-transmitting system. 3,029,889, 4–17–62, Cl. 180—42.

Parcell, Robert F., to Parke, Davis & Co. Substituted piperazine compounds and process for producing the same. 3,028,390, 4–3–62, Cl. 260—268.

Parcell, Robert F., to Parke, Davis & Co. Derivatives of piperazine. 3,037,024, 5–29–62, Cl. 260—268.

Pardo, Clay E., Jr.: *See*—
Koenig, Nathan H., Wasley, and Pardo. 3,059,990.
Lundgren, Harold P., and Pardo. 3,031,334.
Lundgren, Harold P., Pardo, and Foster. 3,049,445.

Pardo, Clay E., Jr., and R. A. O'Connell, to United States of America, Agriculture. Treatment of textiles with polyepoxides and polyamides. 3,019,076, 1–30–62, Cl. 8—128.

Pardo, Clay E., Jr., and R. E. Foster, to United States of America, Agriculture. Shrinkproofing woolen textiles with aqueous emulsions of polyamides and polyepoxides. 3,033,706, 5–8–62, Cl. 117—55.

Pardun, Hermann, to Lever Brothers Co. Purification of phosphatides. 3,047,597, 7–31–62, Cl. 260—403.

Pare, Donat, to Cercueils Amiante Ltee Les—The Asbestos Caskets Ltd. Asbestos cement casket. 3,050,817, 8–28–62, Cl. 27—7.

Pare, Eileen M.: *See*—
Young, David W., Chambers and Pare. 3,062,754.
Young, David W., and Pare. 3,031,495.

Pare, Victor. Skate and shoe combination. 3,026,118, 3–20–62, Cl. 280—11.3.

Parechoc S.A.: *See*—
Loretan, Edouard. 3,026,155.
Loretan, Edouard. 3,037,824.
Loretan, Edouard. 3,047,346.
Matthey, Roger. 3,036,871.
Veilleumier, Marcel. 3,046,725.

Parent, Charles P., and R. B. Spear, to Atkomatic Valve Co., Inc. Solenoid valve. 3,043,336, 7–10–62, Cl. 137—625.27.

Pareto, Eugenio J. Stereoscopic picture projection and viewing means for theatres. 3,063,333, 11–13–62, Cl. 88—16.6.

Parfrey, Francis T. Method of and means for forming hollow articles. Re. 25,290, 12–4–62, Cl. 18—5.

Parfrey, Francis T., and W. K. Gash; said Gash assor. to said Parfrey. Apparatus for forming hollow plastic articles. 3,064,624, 1–20–62, Cl. 18—5.

Parham, Fletcher L. Seamer and method. 3,015,293, 1–2–62, Cl. 113—54.

Parham, Roy P. Portable hunting blind. 3,018,857, 1–30–62, Cl. 189—2.

Parham, William E., to The Regents of the University of Minnesota. Acetylenic ethers. 3,051,759, 8–28–62, Cl. 260—609.

Paris, August F. Dress shirt pressing apparatus. 3,050,220, 8–21–62, Cl. 223—57.

Paris, Olden E., to E. I. du Pont de Nemours, and Co. New polymer compositions and process of preparation. 3,035,022, 5–15–62, Cl. 260—52.

Paris, Thomas H.: *See*—
Moser, Henry W., Paris, and Paterson. 3,047,249.
Sutherland, Lionel M., and Paris. 3,046,183.

Paris, William W., and D. Staker, to Monsanto Chemical Co. Rust inhibited hydrocarbon fuel. 3,068,082, 12–11–62, Cl. 44—63.

Pariser, Rudolph, and G. T. Perkins, to E. I. du Pont de Nemours, and Co. Graft copolymer of polychloroprene backbone and 2,3-dichlorobutadiene-1,3 and method of preparation. 3,035,012, 5–15–62, Cl. 260—45.5.

Pariser, Rudolph, and R. D. Souffie, to E. I. du Pont de Nemours and Co. Elastomeric composition comprising a benzene-soluble chloroprene polymer and a benzene-insoluble radiation cross-linked chloroprene polymer. 3,042,652, 7–3–62, Cl. 260—45.5.

Parish, Gene T. Marine speedometer. 3,020,757, 2–13–62, Cl. 73—181.

Parish, James E.: *See*—
Hickman, Charles R. 3,025,073.

Parish, Roy W.: *See*—
Hickman, Charles R. 3,025,073.

Parisi, Frank E., to General Electronic Laboratories, Inc. Omnipolarized antenna horn. 3,034,118, 5–8–62, Cl. 343—100.

Parisi, Jules T., to Pekay Machine & Engineering Co., Inc. Conditioner for pulverulent material. 3,048,903, 8–14–62, Cl. 22—89.

Parisi, Mauro, to Classic Plastics, Inc. Secret pocket for billfolds and the like. 3,058,506, 10–16–62, Cl. 150—36.

Parisienne d'Exploitation des Etablissements Georges Duflot, Societe: *See*—
Fuks, Alexandre. 3,030,526.

Parisienne d'Outillage a Air Comprime, Compagnie: *See*—
Martin, Pierre. 3,051,390.

Parissi, Anthony J., Adapter for attachment to sirens. 3,069,675, 12–18–62, Cl. 340—405.

Park, Arthur: *See*—
Anderson, Duane B., and Park. 3,022,248.
Scott, Platho P., Jr., Anderson, and Park. 3,017,351.

Park-Baker Electronic Development Corp.: *See*—
Park, Donald M. 3,042,888.

Park, Donald M.: *See*—
Chase, Ralph S., and Park. 3,055,722.

Park, Donald M., to Park-Baker Electronic Development Corp. Position responsive potential divider. 3,042,888, 7–3–62, Cl. 338—44.

Park, Edwin A., and C. B. Kamiss, to Neolon Corp. Flexible protective plastic shield. 3,039,001, 6–12–62, Cl. 250—108.

Park, Joseph D., and S. Cohen, to Minnesota Mining and Mfg. Co. Dibicotocyclobutenediol and alkali metal salts thereof. 3,059,030, 10–16–62, Cl. 260—586.

Park Mfg. Co.: *See*—
Parkhurst, Edwin H., Jr. 3,036,868.

Park, Orrin J., and B. U. Cotner, to The Magee Carpet Co. Method of weaving loop pile fabric. 3,055,401, 9–25–62, Cl. 139—402.

Park Plastics Co., Inc.: *See*—
Joffe, Edward J. 3,049,832.

Park, Robert E.: *See*—
Le Bras, Louis R., and Park. 3,068,254.
Wismer, Marco, Parker, and Park. 3,060,146.

Park, Robert H.: *See*—
Maltby, Wilson R., and Park. 3,019,730.

Park, Robert H., to Plax Corp. Method and apparatus for improving polyethylene surfaces. 3,028,622, 4–10–62, Cl. 18—3.

Park, Robert H. Means for maintaining stability of power transmission systems during a fault. 3,051,842, 8–28–62, Cl. 307—52.

Park, Robert H., S. J. Sindeband, and E. S. Gilfillan. Magnetic mine firing control mechanism. 3,015,273, 1–2–62, Cl. 102—18.

Park, Robert H., and W. R. Maltby. Magnetic detecting device. 3,017,834, 1–23–62, Cl. 102—18.

Park, Robert O., to Baker Oil Tools, Inc. Stop devices for well conduit. Re. 25,219, 8–7–62, Cl. 287—52.

Park, Robert O., to Baker Oil Tools, Inc. Well conduit centering devices. 3,055,432, 9–25–62, Cl. 166—241.

Park, Vernon K.: *See*—
Hagemeyer, Hugh J., Jr., Park, and Edwards. 3,026,312.

Park, William R. R., to The Dow Chemical Co. Method for applying a matte finish to shaped alkenyl aromatic resin surface and article obtained therefrom. 3,027,275, 3–27–62, Cl. 117—138.8.

Park, William R. R., and R. L. Hill, to The Dow Chemical Co. Anti-fogging composition for polystyrene film and coated product. 3,022,178, 2–20–62, Cl. 106—13.

Park, William R. R., and S. F. Roth, to The Dow Chemical Co. Heat sealable coated films of monoalkenyl aromatic polymerizates and a process for preparing the same. 3,053,695, 9–11–62, Cl. 117—138.8.

Parke-Cramer Co.: *See*—
Black, Robert L., Jr. 3,038,191.
Black, Robert L., Jr. 3,055,038.

Parke, Davis & Co.: *See*—
Bartz, Quentin R., Ehrlich, Knudsen, and Smith. 3,023,204.
Cavalla, John F., and Bishop. 3,068,277.
Controuils, John. 3,062,822.
De Wald, Horace A., and Hoefle. 3,043,874.
Frohardt, Roger P., Pittillo, and Ehrlich. 3,065,137.
Gillingham, James M. 3,028,395.
Gillingham, James M. 3,028,430.
Godefroi, Erik F. 3,035,059.
Godefroi, Erik F. 3,049,048.
Godefroi, Erik F. 3,068,288.
Haskell, Theodore H., Ehrlich, Pittillo, and Anderson. 3,043,830.
Hull, Robert L., and Fisher. 3,051,731.
Meyer, Robert F. 3,057,869.
Moore, James A., Westland, Nicolaides, and Dice. 3,030,388.
Mottin, Ralph E., Mix, and Srigley. 3,043,415.
Parcell, Robert F. 3,028,390.
Parcell, Robert F. 3,037,024.
Short, Franklin W., and Elslager. 3,057,776.
Taylor, Alton B. 3,019,168.
Tendick, Frank H., Thompson, and Elslager. 3,017,413.
Wittle, Eugene L., and Moore. 3,052,671.

Parke, John P., and D. D. Penketh, to Lever Brothers Co. Detergent tablets. 3,043,779, 7–10–62, Cl. 252—117.

Parke, Robert M.: *See*—
Carreker, Roland P., Jr., and Parke. 3,060,053.

Parker, Arnold G., to Canadair Ltd. Combined thrust reversing and noise suppressing device for turbo-jet engines. 3,027,714, 4–3–62, Cl. 60—35.54.

Parker, Bernard, to General Precision Inc. Gas bearing accelerometer. 3,068,704, 12–18–62, Cl. 73—516.

Parker, Bernhard D., to The Decca Record Co. Ltd. Registers for binary digital information. 3,041,476, 6–26–62, Cl. 307—88.5.

Parker, Cecil: *See*—
Wright, Esmond P. G., Odell, and Parker. 3,015,755.

Parker, Cecil W., to Allied Animal Research Corp. Diphenylmethane-piperazine-dicarbocyanine: veterinary anthelmintic treatment. 3,046,193, 7–24–62, Cl. 167—53.

Parker, Charles A., to Monroe Calculating Machine Co. Code read-in translator for controlling lister-calculating machines. 3,018,039, 1–23–62, Cl. 235—60.

Parker, Charles A., to Monroe Calculating Machine Co. Combined carriage cushion and interlock. 3,038,581, 6–12–62, Cl. 197—128.

Parker, Charles A., to Monroe Calculating Machine Co. Read-in and read-out devices for accounting machines. 3,065,904, 11–27–62, Cl. 235—61.

Parker, Craig L. Rotary turbine engine. 3,027,716, 4–3–62, Cl. 60—39.35.

Parker, Daniel, to The Parker Pen Co. Writing instruments. 3,063,419, 11–13–62, Cl. 120—42.03.

Parker Donald J.: *See*—
Covely, Frank D., 3rd, and Parker. 3,068,465.

Parker, Donald J., to Radio Corp. of America. Condenser optical systems for flying spot scanners. 3,035,179, 5–15–62, Cl. 250—226.

Parker, Donald W., Jr., to Switzer Bros. Composition for detecting surface discontinuities. 3,028,338, 4–3–62, Cl. 252—301.2.

Parker, Earl E. : *See*—
Wismer, Marco, Parker, and Park. 3,060,146.
Parker, Eddie E. : *See*—
Aggson, Robert E. 3,046,976.
Parker, Emery : *See*—
Mack, Gerry P., and Parker. 3,019,247.
Mack, Gerry P., and Parker. 3,027,350.
Parker, Ernest G., M. A. Karpeles, and R. W. Craine, to International Telephone and Telegraph Corp. Instrument landing system. 3,048,842, 8–7–62. Cl. 343—108.
Parker, Ernest G., and G. C. Lehman, to International Telephone and Telegraph Corp. Directional beacon antenna. 3,054,106, 9–11–62, Cl. 343—754.
Parker Feeders, Inc. : *See*—
Martin, John L., Cauffman, and Parker. 3,029,925.
Parker, Frank M. : *See*—
Flanders, Robert L., Parker, and Knowlton. 3,030,300.
Knowlton, Harold E., Flanders, and Parker. 3,030,314.
Parker, Fred D. : *See*—
Padberg, Louis R., Jr., Parker, Hayes, and Papineau. 3,066,278.
Parker, Frederick A., to General Electric Co., Gas purifier. 3,067,560, 12–11–62, Cl. 55—269.
Parker, Frederick D. : *See*—
Padberg, Louis R., Jr., Parker, and Papineau. 3,035,245.
Parker, George : *See*—
Ostendorf, Bernard, Jr., and Parker. 3,041,396.
Parker, George E., to Woodward Governor Co. Prime mover regulator. 3,027,463, 3–27–62, Cl. 290—40.
Parker, George F., to Her Majesty the Queen in the Right of Canada as represented by the Minister of National Defence. Cartridge clip. 3,032,907, 5–8–62, Cl. 42—88.
Parker, Gerda. Hair dryer. 3,032,891, 5–8–62, Cl. 34—99.
Parker, Gordon N., to Cling-Surface Co. Spout-closure for container with reversible mounting means therefor. 3,021,-037, 2–13–62, Cl. 222—498.
Parker-Hannifin Corp. : *See*—
Bragg, Kenneth R. 3,057,373.
Brown, Albert W. 3,059,895.
Brown, Albert W., and Garrett. 3,038,632.
Cleminshaw, William T., and Gillet. 3,024,045.
Collins, Donald F., and Cowdrey. 3,070,128.
Collins, Donald F., and Emmons. 3,069,187.
Currie, William E. 3,055,684.
Davies, Robert H. 3,020,924.
Davies, Robert H., and Badger. Re. 25,236.
Davies, Robert H., and Webster. 3,022,954.
Davies, Robert H., Webster, and Barricklow. 3,028,102.
Hartley, Emmett C. 3,040,800.
Lansky, Zdenek J. 3,027,877.
Lansky, Zdenek J. 3,046,946.
Lansky, Zdenek J., and Larsen. 3,038,500.
Maha, Otto J. 3,043,638.
Maha, Otto J. 3,043,639.
Markovich, George J. 3,023,584.
Moore, Alexander P. 3,055,386.
Schmohl, Leland H. 3,024,047.
Simmons, Harold C. 3,042,317.
Smith, Paul E. 3,061,321.
Topinka, George F., and Lansky. 3,056,385.
Webster, William G. 3,029,029.
Parker, Harold N. : *See*—
Fremont, Herbert, and Parker. 3,068,321.
Parker, Harold W., to Calbest Engineering & Electronics Co. Educational toy. 3,067,524, 12–11–62, Cl. 35—9.
Parker, Harry W., to Phillips Petroleum Co. Ignition of thick strata for in situ combustion. 3,031,014, 4–24–62, Cl. 166—11.
Parker, Harry W., to Phillips Petroleum Co. Flame front location method. 3,031,762, 5–1–62, Cl. 33—1.
Parker, Harry W., to Phillips Petroleum Co. In situ combustion method. 3,032,102, 5–1–62, Cl. 166—11.
Parker, Harry W., to Phillips Petroleum Co. Increasing fluid flow thru an injection borehole. 3,032,103, 5–1–62, Cl. 166—11.
Parker, Harry W., to Phillips Petroleum Co. Process for igniting and producing carbonaceous strata. 3,034,579, 5–15–62, Cl. 166—11.
Parker, Harry W., to Phillips Petroleum Co. Conversion of oil shale to carbon black. 3,044,859, 7–17–62, Cl. 23—209.4.
Parker, Harry W., to Phillips Petroleum Co. Apparatus and process for igniting a stratum around a well. 3,048,224, 8–7–62, Cl. 166—11.
Parker, Harry W., to Phillips Petroleum Co. Slow release fertilizers and their manufacture. 3,050,385, 8–21–62, Cl. 71—64.
Parker, Harry W., to Phillips Petroleum Co. Controlling selective plugging of carbonaceous strata for controlled production of thermal drive. 3,055,423, 9–25–62, Cl. 166—11.
Parker, Harry W., J. W. Marx, and J. C. Trantham, to Phillips Petroleum Co. Initiation of counterflow in situ combustion. 3,035,638, 5–22–62, Cl. 166—11.
Parker, Harry W., and J. W. Marx, to Phillips Petroleum Co. Thermoplastic molding compositoins. 3,053,680, 9–11–62, Cl. 106—241.
Parker, Harry W., and J. W. Marx, to Phillips Petroleum Co. Thermoplastic and thermoset molded articles of oil shale and method for producing the same. 3,061,451, 10–30–62, Cl. 106—241.
Parker, Headly W. Securing means for monofilament lines and the like. 3,066,372, 12–4–62, Cl. 24—128.
Parker, Humphrey F., and E. E. Robins, to Columbus McKinnon Corp. Conveyor guide means. 3,049,217, 8–14–62, Cl. 198—177.
Parker, Humphrey F., and E. E. Robins, to Columbus McKinnon Corp. Power chain guide and load pick-up carriages and components. 3,068,808, 12–18–62, Cl. 104—172.
Parker, Humphrey F., and E. E. Robins, to Columbus McKinnon Corp. Conveyor trackway. 3,068,809, 12–18–62. Cl. 104—172.
Parker, James W., to United States of America, Air Force. High lift ratio hydraulic jack. 3,030,889, 4–24–62, Cl. 103—11.
Parker, John A., to Armstrong Cork Co. Diisocyanate-modified acid-treated polyethers. 3,019,212, 1–30–62, Cl. 260—75.
Parker, John H. Packaged door assembly and method for prefabricating and installing the same. 3,060,522, 10–30–62, Cl. 20—11.
Parker, John M. Wrapping and sealing machine. 3,016,-673, 1–16–62, Cl. 53—390.
Parker, John M., and B. K. Wasson, to Charles E. Frosst & Co. 2-substituted-2-propargyl propanediol dicarbamates. 3,056,-529, 10–2–62, Cl. 260—482.
Parker, John T. Storage container for uniform sized articles. 3,018,149, 1–23–62, Cl. 312—45.
Parker, Kenneth B., Jr., to Leeds and Northrup Co. Immersion pyrometer with expendable plug-in temperature sensing unit. 3,048,642, 8–7–62, Cl. 136—4.
Parker, Kenneth O., to United Aircraft Products, Inc. Metal O-ring assembly. 3,028,164, 4–3–62, Cl. 277—112.
Parker, Leon, E. C. Wang, and R. C. Nordberg, to H. I. Thompson Fiber Glass Co. Discontinuous batch washing of silica fiber cloth. 3,028,286, 4–3–62, Cl. 156—24.
Parker, Leonis W., to San Francisco Research Corp. Prefabricated pad for surgical casts and the like and method for manufacturing the same. 3,040,740, 6–26–62, Cl. 129—83.
Parker, Louis W. Broadcasting systems employing a radiated unmodulated carrier wave as a heterodyning signal. 3,041,-457, 6–26–62, Cl. 325—51.
Parker, Louis W. Multiband television receivers. 3,041,539, 6–26–62, Cl. 325—315.
Parker, Louis W. Remote position indicator and aircraft guidance system. 3,048,841, 8–7–62, Cl. 343—101.
Parker, Louis W. Indicating instruments and magnetic structures therefor. 3,056,923, 10–2–62, Cl. 324—150.
Parker Metal Goods Co. : *See*—
Ciborowski, Stanley. 3,057,635.
Parker, Mildred E. Massaging suit. 3,028,857, 4–10–62, Cl. 128—24.1.
Parker, Paul B. Water cooling kit for refrigerators. 3,024,-621, 3–13–62, Cl. 62—339.
Parker, Paul T. : *See*—
Cull, Neville L., and Parker. 3,038,923.
Parker Pen Co., The : *See*—
Anderson, Edwin H. 3,052,018.
Dyson, John J. 3,030,925.
Kuranz, Robert L. 3,038,506.
Loven, Carl F. 3,052,969.
Parker, Daniel. 3,063,419.
Rhoades, Nolan K. 3,046,943.
Spillman, Kenneth W. 3,033,167.
Tefft, Ivan D. 3,063,420.
Walker, Phelps A. 3,039,437.
Parker, Philip H., Jr., to California Research Corp. Stabilization of a copolymerizable mixture of an unsaturated monomer and an unsaturated polyester with diphenyl p-benzoquinone, and stabilized mixture obtained thereby. 3,026,286, 3–20–62, Cl. 260—45.4.
Parker, Ralph L. : *See*—
Ryan, William P., and Parker. 3,038,577.
Parker, Ralph L., Jr. : *See*—
Lapointe, Lloyd J., and Parker. 3,049,019.
Parker, Richard W., and E. F. Oblinger, to Parker Sweeper Co. Lawn machine. 3,035,848, 5–22–62, Cl. 280—79.2.
Parker, Rienzi B. : *See*—
James, Raymond W., and Parker. 3,032,414.
Parker, Robert E., to Blount-Parker Corp. Baby bath screen guard lock and release. 3,015,111, 1–2–62, Cl. 4—177.
Parker, Robert W., to Engineering Productions (Clevedon) Ltd. Dust covers for ball joints. 3,052,477, 9–4–62, Cl. 277—189.
Parker, Robert W., to Parker White Metal Co. Vacuum die casting. 3,065,510, 11–27–62, Cl. 22—73.
Parker, Russell H. R., to J. Evans & Son (Portsmouth) Ltd. Brush making machines. 3,065,469, 11–27–62, Cl. 1—2.
Parker Rust Proof Co. : *See*—
Hoffman, Roy A., Maurer, and Saad. 3,046,165.
Jenkins, Herbert A. H., and Freeman. 3,041,215.
Rausch, Werner. 3,032,447.
Richards, Ernest W. 3,034,933.
Russell, William S. 3,015,594.
Parker, Samuel P., to Callaway Mills Co. Method of weaving pile fabric and the resulting product. 3,038,504, 6–12–62, Cl. 139—402.
Parker, Samuel P., and J. T. Short, to Callaway Mills Co. Apparatus for treatment of pile fabrics. 3,034,193, 5–15–62, Cl. 26—2.
Parker, Shirley L. : *See*—
Martin, John L., Cauffman, and Parker. 3,029,925.

Parker Sweeper Co.: *See*—
Houser, Warner, and Stout. 3,039,124.
Oblinger, Edwin F. 3,022,530.
Parker, Richard W., and Oblinger. 3,035,848.
Stout, Theophilus P. R., and Houser. 3,035,294.
Parker, Trent J. Fishing tool. 3,050,896, 8–28–62, Cl. 43—4.
Parker, Walter R.: *See*—
Dyer, John W., Short, and Parker. 3,015,835.
Parker White Metal Co.: *See*—
Parker, Robert W. 3,065,510.
Parker, Wilton E.: *See*—
Egli, Hans, and Parker. 3,048,005.
Le May, Dan B., Parker, Paul, Silver, Stein, and Wood. 3,060,686.
Parker, Wilton E., and W. D. Whitaker, to The Garrett Corp. Variable area nozzle means for turbines. 3,029,067, 4–10–62, Cl. 253—52.
Parkersburg-Aetna Corp.: *See*—
Greby, Daniel F. 3,038,767.
Parsons, Robert L. 3,039,566.
Parkersburg Rig and Reel Co.: *See*—
Hill, Robert H. 3,065,704.
Parkes, Brian J.: *See*—
Agutter, Ronald G., and Parkes. 3,057,376.
Parkes, Gregory W. Locking mechanisms. 3,049,208, 8–14–62, Cl. 192—135.
Parkes, Josiah, & Sons Ltd.: *See*—
Butter, Francis J. 3,060,716.
Parkes, Ralph C., and C. H. Schlecht, to The National Drying Machinery Co. Adjustable air discharge nozzle for a drying machine. 3,021,609, 2–20–62, Cl. 34—158.
Parkey, James K.: *See*—
Rauske, Woldemar C., and Parkey. 3,056,850.
Parkhurst, Edwin H., Jr., to Park Mfg. Co. Emergency safety brake actuator for trailer vehicles while in transit. 3,026,868, 5–29–62, Cl. 303—2.
Parkin, Bernard G., to Her Majesty's Postmaster General. Magnetic alloys. 3,024,142, 3–6–62, Cl. 148—108.
Parkin, Leslie, and W. H. Brealey, to United-Carr Fastener Corp. Self-threading sheet metal fastening device. 3,016,-784, 1–16–62, Cl. 85—47.
Parkin, Leslie, and J. Sinclair, to United-Carr Fastener Corp. Fasteners adapted to be mounted in an aperture or recess of a support. 3,027,609, 4–3–62, Cl. 20—92.
Parkins, William M.: *See*—
Graf, Robert D., Parkins, and Prouty. 3,021,406.
Parkinson CoWan Ltd.: *See*—
Smith, Reginald L. 3,040,578.
Parkinson, Martin: *See*—
Gessler, Albert E., Bender, and Parkinson. 3,065,141.
Parkinson, William: *See*—
Hopkins, Jack R., and Parkinson. 3,024,707.
Parks, Asbury S. Valves. 3,018,797, 1–30–62, Cl. 137—627.5.
Parks, Asbury S. Pressure control devices. 3,052,254, 9–4–62, Cl. 137—85.
Parks, Asbury S. Metering apparatus. 3,064,474, 11–20–62, Cl. 73—200.
Parks, Chest F., J. E. Strassner, and F. W. Burtch, to The Dow Chemical Co. Inhibition of deposition of hydrocarbonaceous solids from oil. 3,067,134, 12–4–62, Cl. 252—8.3.
Parks-Cramer Co.: *See*—
Black, Robert L., Jr. 3,036,325.
Black, Robert L., Jr. 3,046,162.
Black, Robert L., Jr. 3,060,483.
Black, Robert L., Jr. 3,063,874.
Holtzclaw, Grover B. 3,016,559.
Holtzclaw, Grover B. 3,026,020.
Kulp, Earl P. 3,053,700.
Reiterer, Ferdinand. 3,059,896.
Parks, George J., to Milprint, Inc. Carton assemblage having localized attachment. 3,017,067, 1–16–62, Cl. 229—48.
Parks, George J., to Milprint, Inc. Apparatus for thermally sealing packaged commodities. 3,063,215, 11–13–62, Cl. 53—388.
Parks, Herman D.: *See*—
Moe, William W., and Parks. 3,030,453.
Parks, Herman D., to Time, Inc. Magnetic record reading device. 3,060,413, 10–23–62, Cl. 340—171.1.
Parks, James R.: *See*—
Colonna, Joseph J. 3,024,806.
Parks, John M.: *See*—
Landis, George G., Parks, and Forss. 3,053,966.
Parks, John R.: *See*—
Glass, Marvin L., and Parks. 3,060,633.
Parks, John R., to M. I. Glass. Toy bobbyhorse with sound simulating means. 3,055,672, 9–25–62, Cl. 280—1.14.
Parks, Lawrence R.: *See*—
Beyer, John H., Foreman, and Parks. 3,031,371.
Parks, Mercer H., to Jersey Production Research Co. Breakwater. 3,022,632, 2–27–62, Cl. 61—5.
Parks, Merwin S., to Wrapmaster Corp. Article wrapping machine. 3,031,817, 5–1–62, Cl. 53—206.
Parks, Noel W., to Armco Steel Corp. Process of making aluminum coated steel of high reflectivity. 3,069,769, 12–25–62, Cl. 29—528.
Parks, Walter, to Drum-Atic Corp. Apparatus for cleaning barrels. 3,040,351, 6–26–62, Cl. 15—58.
Parks, Walter J., to The W. S. Tyler Co. Screening machine and rubber mounting unit therefor. 3,044,624, 7–17–62, Cl. 209—412.
Parks, Walter J., to The W. S. Tyler Co. Base frame for vibrating screening apparatus. 3,045,824, 7–24–62, Cl. 209—412.
Parks, William J., to General Dynamics Corp. Buffer storage between magnetic tape and synchronous output. 3,051,787, 8–28–62, Cl. 178—70
Park-Ur-Self-System, The: *See*—
Abbott, Elbert V., and Carroll. 3,034,123.
Parlasca, Edwin W., and L. B. Donkle, Jr., to Flexonics Corp. Flexible pipe coupling having means to accommodate radial deflections or vibrations. 3,029,094, 4–10–62, Cl. 285—114.
Parlier, Jack: *See*—
Adams, Harold A. 3,061,162.
Moeller, William C. 3,066,573.
Moeller, William C. 3,068,751.
Parlin, David B.: *See*—
Reinhardt, Henry A., and Parlin. 3,019,508.
Parlin, David B., and W. J. Elliott, to Bigelow-Sanford, Inc. Backed carpet and method of producing the same. 3,060,-072, 10–23–62, Cl. 156—72.
Parmater, Lee W. Testing device for air cleaners of internal combustion engines. 3,034,337, 5–15–62, Cl. 73—38.
Parmater, Lee W. Engine tachometer. 3,056,084, 9–25–62, Cl. 324—70.
Parmater, Lee W., and R. M. Cain. Automotive ignition system tester. 3,028,543, 4–3–62, Cl. 324—16.
Parmater, Lee W., and R. M. Cain. Composite electrical test instruments. 3,058,062, 10–9–62, Cl. 324—73.
Parmele, Harris B., to Hollingsworth & Vose Co. and P. Lorillard Co., jointly. Method of making a tobacco smoke filter. 3,039,908, 6–19–62, Cl. 156—200.
Parmele, Harris B., F. B. Doyle, and W. E. Routh, to P. Lorillard Co. Progessing tobacco. 3,053,259, 9–11–62, Cl. 131—140.
Parmelee Plastics Co.: *See*—
Hungerford, Albert O., and Mullane. 3,038,210.
Moeller, William C. 3,049,973.
Parmella, Ralph, to Imperial Chemical Industries Ltd. Production of pellets from particulate solid materials. 3,060,-511, 10–30–62, Cl. 18—47.5.
Parmelee, Charles G., and R. V. Laustrup, to Alpar Mfg. Co. Telescoping tower. 3,047,107, 7–31–62, Cl. 189—14.
Parmet, Albert, to Par-Metal Products Corp. Extensible and removable drawer accessory for standardized electronic cabinet racks. 3,056,641, 10–2–62, Cl. 312—340.
Par-Metal Products Corp.: *See*—
Parmet, Albert. 3,056,641.
Parnall & Sons Ltd.: *See*—
Thompson, Stanley H. A. 3,024,495.
Thompson, Stanley H. A. 3,039,278.
Thompson, Stanley H. A. 3,057,166.
Parras, Eddy. Snow and ice removal apparatus. 3,015,172, 1–2–62, Cl. 37—43.
Parnell, Edward F., Jr.: *See*—
Bohannon, David L., Parnell, Shanklin, Williamson, and Nagel. 3,061,892.
Parnell, John: *See*—
Dever, John A., Newbold, Parnell, and Latham. 3,064,-191.
Werme, John V., Newbold, Parnell and Volpe. 3,017,097.
Parnell, Ralph W. Apparatus and method for acidizing formation samples. 3,027,752, 4–3–62, Cl. 73—38.
Parodi, Oscar Lear, with flexible crownwheel. 3,030,894, 4–24–62, Cl. 103—126.
Parodi, Federico A., to Stabil Internacional S.A. Bottle capping machine. 3,063,210, 11–13–62, Cl. 53—112.
Paroselli, Leopold: *See*—
Jacobs, Mark N., and Paroselli. 3,058,517.
Parr, Albert P., Jr., M. Lawton, Jr., and L. I. Goldfischer, to General Precision, Inc. Doppler inertial navigational data system. 3,028,592, 4–3–62, Cl. 343—8.
Parr, Bernard F., to Westinghouse Electric Corp. Toaster mechanism. 3,029,725, 4–17–62, Cl. 99—229.
Parr, Bernard F., to Westinghouse Electric Corp. Cooking apparatus. 3,030,487, 4–17–62, Cl. 219—44.
Parr, Edward A. Automatic nailing machines. 3,041,617, 7–3–62, Cl. 1—46.
Parr, Josephus O., Jr., to Olive S. Petty. Sonic prospecting. 3,029,894, 4–17–62, Cl. 181—5.
Parr, Keith. Hot water supply system or the like including vacuum control apparatus. 3,059,662, 10–23–62, Cl. 137—116.5.
Parr, Max O., to General Motors Corp. Vibration damping mechanism. 3,057,220, 10–9–62, Cl. 74—443.
Parrack, Alvin L.: *See*—
Ittria, Oswald A., and Parrack. 3,050,149.
Parraga, Alfredo J. Infuser of beverage making machine. 3,019,719, 2–6–62, Cl. 99—287.
Parrett, Dent, to Lambert Brake Corp. Master cylinder. 3,064,434, 11–20–62, Cl. 60—54.6.
Parrett, Geoffrey E.: *See*—
Holloway, Dennis G., and Parrett. 3,054,865.
Parrett, John T. Speed changing mechanism. 3,060,767, 10–30–62, Cl. 74—798.
Parrett, John T. Drive transmission suspension for motor vehicles. 3,065,811, 11–27–62, Cl. 180—70.
Parrilla, John A. Infusion package. 3,057,728, 10–9–62, Cl. 99—77.1.
Parris, Chester L., to Pittsburgh Plate Glass Co. Amidomethylation of aromatic hydrocarbons. 3,024,281, 3–6–62, Cl. 260—562.

Parris, Chester L., to Pittsburgh Plate Glass Co. Process for the amidomethylation of aromatic compounds. 3,024,282, 3–6–62, Cl. 260—562.

Parris, Chester L., to Pittsburgh Plate Glass Co. Preparation of N-arylalkyl amides. 3,062,882, 11–6–62, Cl. 260—558.

Parris, George F., to Victor Comptometer Corp. Dictating machine. 3,060,278, 10–23–62, Cl. 179—100.2.

Parrish, Esperanza, nee Guandique, and J. R. McCartney, to E. I. du Pont de Nemours and Co. Fibrid mixture products. 3,062,702, 11–6–62, Cl. 162—157.

Parrish, Maxfield, Jr.: *See*—
Bird, George R., and Parrish. 3,046,839.
Booth, Joseph H., and Parrish. 3,045,569.

Parrish, J Russell, and W. B. Cocks, to Meredith Publishing Co. Method of forming laminated printing plate with plastic core. 3,029,730, 4–17–62, Cl. 101—401.1.

Parrott, Alton B. Electric welder. 3,024,351, 3–6–62, Cl. 219—86.

Parrott, Henry W.: *See*—
Ericson, Sidney A., and Parrott. 3,046,054.

Parry, Frank, to The Singer Mfg. Co. Vibration dampeners for sewing machine lighting fixtures. 3,017,498, 1–16–62, Cl. 240—2.14.

Parry, Richard J.: *See*—
Milne, Alexander J., and Parry. 3,029,152.

Parry, Robert D. Fishing line attachment. 3,043,043, 7–10–62, Cl. 43—43.1.

Parry, Walter E., to International Business Machines Corp. Current sensing marginal check control system. 3,042,809, 7–3–62, Cl. 307—80.

Parshall, Bert B., and C. A. Glass, to Link-Belt Co. Transfer mechanism. 3,021,796, 2–20–62, Cl. 104—172.

Parshall, George W.: *See*—
Muetterties, Earl L., and Parshall. 3,052,710.

Parshall, George W., to E. I. du Pont de Nemours and Co. Hydroazaphosphinodecaboranes and fuel compositions containing them. 3,035,949, 5–22–62, Cl. 52—.5.

Parshall, Millis V., to General Motors Corp. Anti-skid device. 3,059,973, 10–23–62, Cl. 303—21.

Parske, Charles A., and J. A. Hansen, to Kearney & Trecker Corp. Index mechanism. 3,031,902, 5–1–62, Cl. 74—818.

Parske, Charles A., and S. F. Kulpa, to Kearney & Trecker Corp. Power operated tool draw-in bar. 3,038,386, 6–12–62, Cl. 90—11.

Parsley, Charles H. A.: *See*—
Sweett, Henry C., Parsley, and Smith. 3,042,998.

Parson and Marine Engineering Turbine Research and Development Association, The: *See*—
Cleff, Peter H. 3,060,642.

Parsoneault, Frank L. Baseball pitching and fielding practice device. 3,018,769, 1–30–62, Cl. 124—11.

Parsons, Alva M.: *See*—
Parsons, Ray H. 3,027,675.

Parsons, Anthony M.: *See*—
Cohen, Aaron, and Parsons. 3,016,381.

Parsons, Anthony M., to Hoffmann-La Roche Inc. Basic-5-(1'-methylpiperidyl-(4'))-pentyl-(2) esters, salts thereof, and preparation. 3,019,229, 1–30–62, Cl. 260—294.3.

Parsons, Brian N.: *See*—
Mills, Walter P., Parsons, and Reed. 3,057,673.

Parsons, C. A., & Co. Ltd.: *See*—
Bolter, John R., and Beaton. 3,045,895.
Horsley, William D. 3,049,634.
Hryniszak, Waldemar. 3,042,382.
Ritz, Hugo H. L. 3,030,292.
Vaughan, Roger D. 3,027,314.

Parsons Corp.: *See*—
Harwood, Floyd E., and Mast. 3,052,402.
Harwood, Floyd E., and Parsons. 3,024,077.
Hinds, James A. 3,028,292.
Hryniszak, Waldemar, and Jones. 3,030,779.
Parsons, John T., and Harwood. 3,020,115.

Parsons, Craig B., Jr. Surgeon's powder dispensing machine. 3,059,815, 10–23–62, Cl. 222—81.

Parsons, Floyd B., to Specialties Development Corp. Moisture separator for gas compressor. 3,067,762, 12–11–62, Cl. 137—203.

Parsons, Floyd B., and J. L. Then, to Specialties Development Co. Lanyard actuated valve. 3,017,157, 1–16–62, Cl. 251—66.

Parsons, Hubert J., and N. L. Hall, to Hardinge Brothers, Inc. Cut-off mechanism. 3,039,342, 6–19–62, Cl. 82—100.

Parsons, James R., and R. E. Wightman, to Phillips Petroleum Co. Minimizing product loss from parallel process steps. 3,060,662, 10–30–62, Cl. 55—19.

Parsons, Joe T. Sewing machine cabinet. 3,051,538, 8–28–62, Cl. 312—30.

Parsons, John T.: *See*—
Forrester, Jay W., Pease, McDonough, and Susskind. 3,069,608.
Harwood, Floyd E., and Parsons. 3,024,077.

Parsons, John T., and F. D. Harwood, to Parsons Corp. Workman's time recorder. 3,020,115, 2–6–62, Cl. 346—54.

Parsons, Mahlon W., Jr. Optical instrument in the nature of a surveying transit. 3,049,963, 8–21–62, Cl. 88—2.4.

Parsons, Peter J., to Atomic Energy of Canada Ltd. Multiple sampler for soils. 3,036,638, 5–29–62, Cl. 166—169.

Parsons, Ray H., 10% to A. M. Parsons. Fishing signal. 3,027,675, 4–3–62, Cl. 43—17.

Parsons, Raymond A. Collapsible sawbuck. 3,034,546, 5–15–62, Cl. 143—91.

Parsons, Richard L. Two-stage oil well casing cementing with upper and lower stationary slots for secondary stage. 3,062,293, 11–6–62, Cl. 116—155.

Parsons, Robert: *See*—
Finn, George B., Jr., and Parsons. 3,051,878.

Parsons, Robert L., to Parkersburg-Aetna Corp. Storage and discharge bins. 3,038,566, 6–12–62, Cl. 189—3.

Parsons, Rodney. Device for cleaning balls. 3,051,979, 9–4–62, Cl. 15—506.

Parsons, Roscoe D. Illuminated mirror. 3,032,643, 5–1–62, Cl. 240—6.45.

Parsons, Sir Howard Grubb, & Co. Ltd.: *See*—
Haswell, Ronald. 3,036,218.
Martin, Albert E. 3,015,984.
Martin, Albert E. 3,062,089.
Sisson, George M. 3,056,331.

Parsons, Stuart L.: *See*—
Kelley, Donald E., Moll, Parsons, and Pascale. 3,042,-603.

Parsons, William F.: *See*—
Carnall, Edward, Jr., Ladd, Cary, and Parsons. 3,033,-693.

Parsons, William S.: *See*—
Ten Haken, Melvin G., Parsons, and Marks. 3,052,824.

Parssinen, Edwin J., H. L. Rathbun, Jr., and R. S. Woollett, to United States of America, Navy. Balanced flexural electroacoustic transducer. 3,054,084, 9–11–62, Cl. 340—5.

Parssinen, Toimi A.: *See*—
Curtis, John C., and Parssinen. 3,044,448.

Partansky, Alexander M., to The Dow Chemical Co. Process for inhibiting crystallization of the diglycidyl ether of bisphenol A comprising incorporating therein and epoxylated novolak resin, and composition obtained thereby. 3,051,681, 8–28–62, Cl. 260—43.

Partington, John E., to Research Evaluation Associates, Inc. Card holder. 3,054,544, 9–18–62, Cl. 225—93.

Partridge, Alan H.: *See*—
Hughes, Herbert D., Lewis, and Partridge. 3,026,365.

Partridge, Harry F. Direction indicator for golf putters. 3,033,574, 5–8–62, Cl. 273—163.

Partridge, John A.: *See*—
Edwards, Harry, and Partridge. 3,035,775.
Edwards, Harry, and Partridge. 3,049,267.
Edwards, Harry, Partridge, Shanks, and Wilcock. 3,042,311.

Partridge, William R.: *See*—
Stanford, George W., and Partridge. 3,018,244.

Parts, Leo: *See*—
Pruett, Roy L., Rink, and Parts. 3,068,258.

Partsch, Ernst, to Thermo-Chemical-Development Co. Abteilung Fuer Glasbau. Double pane element. 3,054,153, 9–18–62, Cl. 20—56.5.

Parvi, Ludovic: *See*—
Thermet, Robert, and Parvi. 3,029,295.
Thermet, Robert, and Parvi. 3,029,299.

Parzen, Benjamin: *See*—
Katzenstein, Henry S., and Parzen. 3,056,854.

Parzen, Benjamin, to The Siegler Corp. Magnetic tape recorder and reproducer. 3,033,480, 5–8–62, Cl. 242—55.12.

Pascal, Ivan, to E. I. du Pont de Nemours and Co. N-fluorinated alkyl-amides of alkanoic acids and process of preparation. 3,019,261, 1–30–62, Cl. 260—561.

Pascale, Gerald F.: *See*—
Kelley, Donald E., Moll, Parsons, and Pascale. 3,042,-603.

Pascall, Joseph J.: *See*—
Mueller, Fritz, and Pascall. 3,040,515.

Paschall, Don F., to Chronicle Publishing Co. Display mounts. 3,049,324, 8–14–62, Cl. 248—35.

Paschall, Eugene F., to Corn Products Co. Preparation of propionamide ethers of starch. 3,033,852, 5–8–62, Cl. 260—233.3.

Paschall, Eugene F., and W. H. Minkema, to Corn Products Co. Interproofing starch adhesive containing urea-formaldehyde condensate and trimetaphosphate salt and process of making same. 3,024,212, 3–6–62, Cl. 260—17.3.

Paschall, Eugene F., W. J. Katzbeck, and W. Hahh, to Corn Products Co. Starch size. 3,068,124, 12–11–62, Cl. 117—139.5.

Pascher, Robert L., and K. G. Wernicke, to Bell Aerospace Corp. Helicopter flight control. 3,058,529, 10–16–62, Cl. 170—160.13.

Paschke, Frank R., and A. A. Wolf, to Miehle-Goss-Dexter, Inc. Alternate discharge multiple flash lamp circuit and control. 3,031,599, 4–24–62, Cl. 315—201.

Paschke, Fritz E., to Radio Corp. of America. Traveling wave amplifier tube. 3,054,018, 9–11–62, Cl. 315—3.6.

Paschke, Hanns-Dieter: *See*—
Froede, Walter, and Paschke. 3,059,585.
Froede, Walter G., Hoppner, and Paschke. 3,042,009.

Paschkis, Albert E., to Leeds and Northrup Co. Chart advance system for a strip chart recorder. 3,060,420, 10–23–62, Cl. 346—32.

Pasco, Richard J., to Sylvania Electric Products Inc. Telegraphic code character generation. 3,037,566, 6–5–62, Cl. 178—82.

Pasco, Richard J., to Sylvania Electric Products Inc. Drive circuit for counter tubes. 3,066,240, 11–27–62, Cl. 315—84.6.

Pascoe, Frank T., to Westinghouse Air Brake Co. Centralized traffic control system for railroads. 3,015,722, 1–2–62, Cl. 246—5.

Pascoe, Frank T., and L. R. Allison, to Westinghouse Air Brake Co. Automatic train operation system. 3,041,448, 6–26–62, Cl. 246—63.

Pascucci, Ernest: *See*—
Ogden, Frederic W., Pascucci, and Schiffer.

Pascucci, Julio A., to The Miller Co. Lighting fixture troffer and latch therefor. 3,019,333, 1–30–62, Cl. 240—51.11.

Pascucci, Julio A., to The Miller Co. Ceiling support for pendant electric fixtures and the like. 3,041,035, 6–26–62, Cl. 248—342.

Pascucci, Vito, to G. Le Blanc Corp. Musical instrument case. 3,048,262, 8–7–62, Cl. 206—13.

Pase, Hugh H., to The Houston Co. Automatic tank-filling systems. 3,055,405, 9–25–62, Cl. 141—207.

Pasedach, Heinrich, and M. Seefelder, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of branched unsaturated ketones. 3,023,246, 2–27–62, Cl. 260—595.

Pasetti, Adolfo: *See*—
Hügel, Robert, and Pasetti. 3,022,346.

Pasfield, William H.: *See*—
Alexander, Guy B., and Pasfield. 3,019,103.

Pasfield, William H., to E. I. du Pont de Nemours and Co. Stable aquasols of hydrous rare earth oxides and their preparation. 3,024,199, 3–6–62, Cl. 252—313.

Pasinski, Arthur M., to Burroughs Corp. Raceway construction. 3,052,503, 9–4–62, Cl. 308—6.

Pasinski, Arthur M., and M. Siegel, to Burroughs Corp. Calculating machine with instruction modifying mechanism. 3,042,294, 7–3–62. Cl. 235—60.47.

Paskevich, Ernest J., and D. C. Elves. Oil well tubing scrapers. 3,027,946, 4–3–62, Cl. 166—176.

Pasquale, David B. Ground socket. 3,066,769, 12–4–62, Cl. 189—29.

Pasquinelli, Bruno E., to Miehle-Goss-Dexter, Inc. Unitary and removable inking mechanism for printing presses. 3,065,692, 11–27–62, Cl. 101—357.

Pass, Carl. Deep well fryer. 3,018,716, 1–30–62, Cl. 99—331.

Pass, Friedrich: *See*—
Zorn, Hermann, Pass, and Steininger. 3,068,293.

Pass, Richard H., to Air Reduction Co., Inc. Resin bonded electrical resistors and methods of producing the same. 3,056,750, 10–2–62, Cl. 252—511.

Pass & Seymour, Inc.: *See*—
Despard, Victor R. 3,020,516.
Despard, Victor R. 3,031,911.
Winter, Paul H., and Salisbury. 3,038,020.

Passaggio, Charles, to Scovill Mfg. Co. Hydraulic pressure gauge. 3,028,758, 4–10–62, Cl. 73—419.

Passal, Frank, to Metal & Thermit Corp. Electrodeposition of copper. 3,030,282, 4–17–62, Cl. 204—52.

Passal, Frank, and J. A. Hartman, to Metal & Thermit Corp. Electrodeposition of bright nickel. 3,041,255, 6–26–62, Cl. 204—49.

Passariello, Angelo G. Pinch-spin tops. 3,018,584, 1–30–62, Cl. 46—72.

Passau, Philippe, to Societe Anonyme Ateliers de Constructions Electriques de Charleroi. Signal conversion apparatus for data-telemeter systems and remote control systems. 3,033,461, 5–8–62, Cl. 235—181.

Passley, Paul L., and J. F. Eberle, to Phillips Petroleum Co. Producing indicia in film by modification of film opacity. 3,022,541, 2–27–62, Cl. 18—48.

Pasternak, John P., to Bell Telephone Laboratories, Inc. Insulation stripping wire connector. 3,027,536, 3–27–62, Cl. 339—97.

Pastoret, John E., and H. C. Krapf, to Westinghouse Electric Corp. Electric drive locomotive wheel slip limitation. 3,069,606, 12–18–62, Cl. 318—52.

Pastorius, James W. Folding platform. 3,055,477, 9–25–62, Cl. 182—4.

Pastoriza, James J. Automatic tracking apparatus. 3,015,-817, 1–2–62, Cl. 343—7.3.

Pastoriza, James J., to United States of America, Air Force. Radar course and interception computing system. 3,054,-101, 9–11–62, Cl. 343—7.

Pastushin Aviation Corp.: *See*—
Landry, John V. 3,016,258.

Pataki, John: *See*—
Djerassi, Carl, Rosenkranz, Kaufmann, Pataki, and Romo. 3,020,294.

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Patenaude, Joseph A.: *See*—
Close, Egbert B., and Patenaude. 3,039,202.

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Clarke, Rollin R. 3,056,988.

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Van der Lely, Cornelis. 3,040,510.

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Hollmann, Julius Z., and Schultz. 3,034,261.
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Harvey, Ronald G., Hoffman, and Patinkin. 3,035,104.

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Chandler, Frank J. 3,042,287.

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Patriarca, Aldo: *See*—
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Tinsley, Samuel W., Starcher, McGary, and Patrick. 3,019,202.

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Vixler, Leslie F. 3,037,920.

Patronik, Harry N.: *See*—
Vedder, Walter O., and Patronik, 3,021,376.

Patt, Sylvester. Cutter bar and reel. 3,029,583, 4–17–62, Cl. 56—26.

Pattan, Bruno A.: *See*—
De Poy, Martin L., II, Pattan, and Lucy. 3,019,431.

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Ash, Eric A., and Pattenden. 3,020,498.

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Patterson, C. J., Co.: *See*—
Beaman, Norman V., and Broomall. 3,035,725.
Beaman, Norman V., Hudson, and Gauss. 3,046,812.
Landfried, Bert W., and Tenney. 3,033,868.
Marnett, Lawrence F., and Hampton. 3,021,800.

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Patterson, Donald M.: *See*—
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Patterson, Ernest L.: *See*—
Linkenheimer, Wayne H., Patterson, and Brockman. 3,070,506.

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Gillette, Allen K., and Patterson. 3,029,786.

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Patterson, John A.: *See*—
Sweeney, William M., and Patterson. 3,061,614.

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Patterson, Raymond T., to United States of America, Navy. Radome. 3,069,112, 12–18–62, Cl. 244—14.

Patterson, Richard D. Wire tightening and twisting tool. 3,033,244, 5–8–62, Cl. 140—118.

Patterson, Robert C., to Combustion Engineering, Inc. Mechanical seal. 3,017,191, 1–16–62, Cl. 277—82.

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Patterson, Roy J.: *See*—
Dyer, George A., and Patterson. 3,028,473.

Patterson, Thomas A., Jr., to Industrial Products Co. Safety vest. 3,047,875, 8–7–62, Cl. 2—1.

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Patterson, V. C., & Associates, Inc.: *See*—
Ruff, Alonzo W. 3,038,400.

Patterson, W. W., Co.: *See*—
Patterson, William W., III, and Grapes. 3,021,924.
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Patterson, William W., III, and E. F. Grapes, to W. W. Patterson Co. Reverse motion preventing mechanism. 3,021,924, 2–20–62, Cl. 188—82.7.

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Pattiani, William C. Razor honing device. 3,068,567, 12–18–62, Cl. 30—35.

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Pattilloch, Donald K., to Electro-Chem Fiber Seal Corp. Process of combining water-insoluble additament with organic fibrous material. 3,016,325, 1–9–62, Cl. 162—164.

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Pattin Mfg. Co., Inc.: *See*—
Dempsey, Joseph B. 3,022,700.

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Pattison, Richard J.: *See*—
Bertsche, Ralph H., Jr., and Pattison. 3,060,310.

Patton, Alexander M., to The International Nickel Co., Inc. Casting of metals and alloys. 3,045,302, 7–24–62, Cl. 22—216.

Patton, Charles C., to Sangamo Electric Co. Secondary power capacitors. 3,067,362, 12–4–62, Cl. 317—104.

Patton, Chester G.: *See*—
Duden, Robert W. 3,062,549.

Patton Engineering Corp.: *See*—
Hutchest, Bert W. 3,040,671.

Patton, Franklin S., to Sterling Seal Co. Venting seal for a closure. 3,045,854, 7–24–62, Cl. 215—56.

Patton, Franklin S., and R. V. King, to Sterling Seal Co. Cover for a container. 3,022,922, 2–27–62, Cl. 222—182.

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Patton, James K. Adjustable golf sole covering. 3,025,615, 3–20–62, Cl. 36—7.6.

Patton, James L.: *See*—
Pfeiffer, Robert W., and Patton. 3,070,640.

Patton, John T., to Jersey Production Research Co. Thickening agent and process for producing same. 3,020,207, 2–6–62, Cl. 195—31.

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Patton, John T., Jr., W. W. Levis, Jr., and W. K. Langdon, to Wyandotte Chemicals Corp. Production of piperazines. 3,067,202, 12–4–62. Cl. 260—628.

Patton-MacGuyer Co.: *See*—
Rutter, Carlton G. 3,065,451.

Patton, Robert: *See*—
Walsh, James P., and Patton. 3,061,390.

Patton, Tad L., to Monsanto Chemical Co. Producing vinylene carbonate. 3,030,382, 4–17–62, Cl. 260—340.2.

Patton, Thomas O., and C. A. Smith, to Eastman Kodak Co. Apparatus for continuous pellet precipitation of organic acid esters of cellulose. 3,067,463, 12–11–62, Cl. 18—12.
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Patzelt, Harold I.: *See*—
Mindick, Morris, and Patzelt. 3,069,728.
Patzman, Benjamin H. and H. L. Nagel. Knurling tool. 3,055,240, 9–25–62, Cl. 80—5.1.
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Pauer, Edward E. Plant receptacle having improved irrigating means. 3,063,196, 11–13–62, Cl. 47—38.
Paugstat, John F.: *See*—
Schumacher, Gene L., and Paugstat. 3,067,934.
Paul, Adolf, to Steinback G.m.b.H. Truck crane. 3,047,160, 7–31–62, Cl. 212—35.
Paul, Adolf, and K. Steinert. Transport vehicle. 3,036,651, 5–29–62, Cl. 180—19.
Paul, Albert P.: *See*—
Lewis, Charles E., Paul, Tsang, and Leavitt. 3,051,697.
Paul, Albert P., to Shell Oil Co. Process for recovering iodine from mixtures of iodine, hydrogen iodide and water. 3,044,862, 7–17–62, Cl. 23—294.
Paul, Carlton H.: *See*—
Le May, Dan B., Parker, Paul, Silver, Stein, and Wood. 3,060,686.
Paul, Edward, Jr., to United States of America, Navy. Microwave excited spectrum tube with internal heater. 3,048,738, 8–7–62, Cl. 313—202.
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Paul, Frank B.: *See*—
Lay, Robert, Paul, and Roy. 3,050,658.
Paul, Gerhard: *See*—
Woolenweber, William E., Jr., Hardy, and Paul. 3,056,634.
Paul, Harry C. Snow tractor. 3,016,965, 1–16–62, Cl. 180—5.
Paul, James T., Jr.: *See*—
Kouba, Delore L., Paul, and Stow. 3,053,908.
Paul, John M., to The Budd Co. Side guards for stackable cargo containers. 3,047,189, 7–31–62, Cl. 220—71.
Paul, Les. Electrical musical instrument. 3,018,680, 1–30–62, Cl. 84—1.16.
Paul, Lewis A.: *See*—
Pelley, Perry H., and Paul. 3,067,021.
Paul, Manfried: *See*—
Von Schlichten, Gehm, and Paul. 3,027,356.
Paul, Mary F., to The Norwich Pharmacal Co. Animal feedstuff supplemented with 5-nitro-2-furaldehyde 2-(3-hydroxyethyl)-semicarbazone. 3,039,875, 6–19–62, Cl. 99—2.
Paul, Philip F., to The Patent and Licensing Corp. Fruit shipping crate. 3,040,955, 6–26–62, Cl. 229—27.
Paul, Richard S.: *See*—
Baker, Charles R., and Paul. 3,021,682.
Paul, Siegfried, and A. Guse, to Messrs. H. Wohlenberg Kommanditgesellschaft. Device for controlling the feed-saddle of cutting-machines for paper, cardboard and similar substances. 3,061,764, 10–30–62, Cl. 317—123.
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Paul, Ursula R. D.: *See*—
Von Schickhn, Gehm, and Paul. 3,027,356.
Paul, Walter: *See*—
Lohs, Willy, Paul, and Kallhardt. 3,043,917.
Paul, Walter, A. Geese, F. Gaber, and H. Greska, to Siemens & Halske Aktiengesellschaft. Keyboard for use in signalling systems. 3,051,799, 8–28–62, Cl. 200—5.
Paulding, Herbert L.: *See*—
Ackell, Joseph J., and Paulding. 3,044,395.
Ackell, Joseph J., Paulding, and Yu. 3,018,946.
Paule, Kurt, H. Knapp, R. Zechnall, and O. Schütte, to Robert Bosch G.m.b.H., Firma. Fuel control arrangement. 3,051,152, 8–28–62, Cl. 123—119.
Pauler, Charles J., and R. B. Waddell, Jr., to Whirlpool Corp. Combined fluid and electrical connector. 3,034,085, 5–8–62, Cl. 339—16.
Pauley, Stanley F., and R. G. Cecil, to E. R. Carpenter Co., Inc. Apparatus for crowning blanks of resilient foam material. 3,029,565, 4–17–62, Cl. 51—135.
Pauli, Fritz K.: *See*—
Schlidt, Rudolf H., and Pauli. 3,037,783.
Pauli, Otto, and D. Bauer, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of compounds of polyvalent metals with polychlorophenols and higher carboxylic acids. 3,064,019, 11–13–62, Cl. 260—414.
Paulik, Ferenc and J., and L. Erdey. Apparatus for simultaneously carrying out thermogravimetric, differential-thermal and derivative-thermo-gravimetric analysis. 3,045,472, 7–24–62, Cl. 73—15.
Paulik, Jeno: *See*—
Paulik, Ferenc and J., and Erdey. 3,045,472.
Paulini, Harry H. J., to United Sweets of America, Inc. Candy or pill dispensing container. 3,020,659, 2–13–62, Cl. 40—397.
Paull, Donald A., and D. J. Wilson, to Sealed Power Corp. Process of chromium plating vented piston rings. 3,051,633, 8–28–62, Cl. 204—24.
Paullus, Clarence L.: *See*—
Lindsey, Wray E., Friedmann, and Paullus. 3,038,666.
Paulos, Harry, to Diebold, Inc. Security file construction. 3,070,046, 12–25–62, Cl. 109—29.
Paulovitz, Albert C., to Navigation Computer Corp. Method for mounting electrical apparatus. 3,031,738, 5–1–62, Cl. 29—155.5.
Pauls, Dr. Emil: *See*—
Keller, Richard, Quest, Schroer, and Lochschmidt. 3,048,206.
Plock, Karl, Keller, and Quest. 3,032,077.
Pauls, Theron F., to Olin Mathieson Chemical Corp. Hollow sheet metal forming. 3,037,277, 6–5–62, Cl. 29—545.
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Paulsen, Hans C., to United Shoe Machinery Corp. Automatic edge binding machines. 3,040,347, 6–26–62, Cl. 12—24.5.
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Paulsen, Robert C.: *See*—
Bloch, Erich, and Paulsen. 3,070,706.
Paulsen, Thorwell H., to Ashland Oil & Refining Co. Process for the separation of naphthalene. 3,055,956, 9–25–62, Cl. 260—674.
Paulson, Elmir E., and H. J. Smile, to General Electric Co. Rotor and stator construction. 3,035,759, 5–22–62, Cl. 230—122.
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Paulson, John W., to The Electric Storage Battery Co. Low temperature dry cell. 3,060,256, 10–23–62, Cl. 136—103.
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Paulson, Morris, and L. Rasmussen, to Minnesota and Ontario Paper Co. Apparatus and process for sampling. 3,015,957, 1–9–62, Cl. 73—421.
Paulson, Roy F. Citrus fruit membrane cutter. 3,036,377, 5–29–62, Cl. 30—24.
Paulson, Theodore R., to United States of America, Army. Solar aspect telemeter. 3,049,670, 8–14–62, Cl. 325—105.
Paulson, William T., to The Carborundum Co. Anti-weld additives for coated abrasive bonds. 3,058,819, 10–16–62, Cl. 51—295.
Paulsrud, Gerhardt A. Optical viewing device. 3,019,689, 2–6–62, Cl. 88—1.
Paulsson, Walter J.: *See*—
Stevens, Howard C., Jr., and Paulsson. 3,049,242.
Paulus, Edward F. Glass holder with gimbal mounting. 3,045,962, 7–24–62, Cl. 248—225.
Paulus, George F., and E. C. Scholl, to Congoleum-Nairn Inc. Water colloid paint containing high percentage of filler and vinyl resin solids, and method for preparing same. 3,068,186, 12–11–62, Cl. 260—29.6.
Paulus, Henri. Method of and apparatus for limiting the shearing operation of cloth. 3,050,815, 8–28–62, Cl. 26—15.
Paulus, Robert J., and R. E. Farnham, to Barber-Greene Co. Self-erecting portable mixing plant or the like. 3,050,159, 8–21–62, Cl. 189—11.
Pauly, Jacob L.: *See*—
Poncel, Eugene E., and Pauly. 3,059,814.
Paumgardhen, Gaethy. Apparatus for rotating and operating light bulbs. 3,035,163, 5–15–62, Cl. 240—10.1.
Paus, Robert L.: *See*—
Forrester, Clyde, and Paus. 3,061,014.
Paus, Robert L., and C. Forrester, to Ansul Chemical Co. Safety device for a fire extinguisher. 3,016,097, 1–9–62, Cl. 169—31.
Pava, Jack R. Nutcracker. 3,019,828, 2–6–62, Cl. 146—14.
Pava, Norman, to Potter Instrument Co., Inc. Cantilever spring support bearing. 3,054,608, 9–18–62, Cl. 267—1.
Pavek, Jerry. Fertilizer cartridge insert. 3,060,012, 10–23–62, Cl. 71—64.
Pávek, Miloslav, to Sdruzeni podniku textilniho strojirenstvi. Spinning basket. 3,038,293, 6–12–62, Cl. 57—58.93.
Pávek, Miloslav, to Sdruzeni podniku texilniho strojirenstvi. Continuous spinning of yarns directly from loose fibres. 3,038,294, 6–12–62, Cl. 57—58.93.
Pavek, William T. Fish lure retriever. 3,039,223, 6–19–62, Cl. 43—17.2.
Pavement Salvage, Inc.: *See*—
Neville, Charle A. 3,055,280.
Pavey, George M., Jr., to Marine Research Co. Means for producing a low frequency seismic signal. 3,022,852, 2–27–62, Cl. 181—.5.
Pavlak, Walter A., to W. W. Jackson. Speaker device. 3,066,200, 11–27–62, Cl. 179—115.5.
Pavlecka, John. Interlocked panel structure. 3,037,590, 6–5–62, Cl. 189—34.

Pavlecka, Vladimir H. Bypass jet engines using centripetal flow compressors and centrifugal flow turbines. 3,037,352, 6–5–62, Cl. 60—39.35.

Pavlecka, Vladimir H., to American Machine & Foundry Co. Methods of compressing fluids with centripetal compressors. 3,040,971, 6–26–62, Cl. 230—124.

Pavlecka, Vladimir H. Gas turbine power plant having centripetal flow compressors and centrifugal flow turbines. 3,052,096, 9–4–62, Cl. 60—39.36.

Pavlic, Ivo: *See*—
Davy, John C., and Pavlic. 3,064,881.

Pavlic, Ivo, to International Computers and Tabulators Ltd. Card-feeding apparatus. 3,051,477, 8–28–62, Cl. 271—3.

Pavlik, Albert, Jr.: *See*—
Bundy, Willard S., and Pavlik. 3,065,052.

Pavlik, Charles J., and P. A. Songer, to The Gates Rubber Co. Flexible molded hose. 3,043,612, 7–10–62, Cl. 285—226.

Pavlicic, Dusan, K. Foster, and J. A. Osborn, to Westinghouse Electric Corp. Doubly-oriented aluminum iron magnetic sheets. 3,058,857, 10–16–62, Cl. 148—120.

Pawl, Walter S. Research and information retrieval system. 3,035,736, 5–22–62, Cl. 221—129.

Pawlak, Joseph C.: *See*—
Bartosh, Stephen J., and Pawlak. 3,025,336.

Pawling Rubber Corp.: *See*—
Doe, Elmer F. 3,015,136.
Kleinhans, Herbert F. 3,061,895.

Pawloski, Chester E.: *See*—
Sterling, George B., and Pawloski. 3,061,631.

Pawloski, Chester E., to The Dow Chemical Co. (2-propynyl) N,N-di(2-propynyl) p-amino-benzoate. 3,061,630, 10–30–62, Cl. 260—471.

Pawloski, Chester E., to The Dow Chemical. Acetoacettoluidides and anisidides. 3,061,643, 10–30–62, Cl. 260—562.

Pawlowski, Walter F.: *See*—
Spiselman, Joseph W., and Pawlowski. 3,025,934.

Pawlson, Eugene T. Resurfacing and finishing machine. 3,034,262, 5–15–62, Cl. 51—9.

Paxson, Edward: *See*—
Postal, Robert H., Paxson, and Davidson. 3,039,055.

Paxson, Homer D. Coil turning device. 3,021,018, 2–13–62, Cl. 214—1.

Paxton, Floyd G. Method of marking poultry. 3,067,534, 12–11–62, Cl. 40—23.

Paxton, Gale E.: *See*—
Keen, Douglas H., and Paxton. 3,064,918.

Paxton, John J. Garment accessory holder and garment selector. 3,040,448, 6–26–62, Cl. 35—56.

Paxton, Joseph M., to Sun Oil Co. Elevation of granular solids. 3,053,501, 9–4–62, Cl. 202—53.

Paxton, Lawrence E. Automobile hat rack. 3,046,049, 7–24–62, Cl. 296—97.

Payer, Rodolphe L. Method of forming dead ends for cables. 3,048,003, 8–7–62, Cl. 57—160.

Paymal, Jean A., to Compagnie de Saint-Gobain. Measurement of radiation. 3,046,400, 7–24–62, Cl. 250—83.

Payne, Alfred W., Jr. Baby boot. 3,050,873, 8–28–62, Cl. 36—2.5.

Payne, Colin, R. N. Cook, and J. A. Loudon, to Wickman Ltd. Lathe or other like cutting tools. 3,026,600, 3–27–62, Cl. 29—96.

Payne, Dick, and G. M. Amthor. Steerable trailer. 3,048,422, 8–7–62, Cl. 280—81.

Payne, Eric R., to The Austin Motor Co. Ltd. Motor vehicle power plants. 3,017,787, 1–23–62, Cl. 74—701.

Payne, George B., to Shell Oil Co. Epoxyaliphatic amide production. 3,053,857, 9–11–62, Cl. 260—348.

Payne, George B., and W. J. Sullivan, to Shell Oil Co. Preparation of epoxy alcohols from epoxy alkanals. 3,041,-356, 6–26–62, Cl. 260—348.

Payne, George B., and P. H. Deming, to Shell Oil Co. Epoxidation of ethylenic compounds with peroxycarboximidic acids. 3,053,856, 9–11–62, Cl. 260—348.5.

Payne, George B., W. J. Sullivan, P. R. Van Ess, and P. H. Williams, to Shell Oil Co. Alpha-hydroxy beta-mercaptoalkanals. 3,062,890, 11–6–62, Cl. 260—602.

Payne, Grady L., to Socony Mobil Oil Co., Inc. Method and apparatus for the controlled withdrawal of granular solids from a liquid-granular solid contacting zone. 3,052,356, 9–4–62, Cl. 210—74.

Payne, James T., to Ranco Inc. Snap switch mechanism. 3,032,621, 5–1–62, Cl. 200—67.

Payne, James T., to Ranco Inc. Control apparatus. 3,032,-626, 5–1–62, Cl. 200—83.

Payne, John: *See*—
Preston, Iris W., and Payne. 3,016,304.

Payne, John H., Jr., to United States of America, Atomic Energy Commission. Apparatus for loading and unloading a machine. 3,044,947, 7–17–62, Cl. 204—193.2.

Payne, John W., to Socony Mobil Oil Co., Inc. Restoration of catalyst by surface grinding. 3,060,117, 10–23–62, Cl. 208—165.

Payne, Kenneth. Method of producing a visual musical record. 3,016,792, 1–16–62, Cl. 88—24.

Payne, Kenneth J., and L. J. Clark, to The British Thomson-Houston Co Ltd. Driving equipment including electric motors. 3,032,696, 5–1–62, Cl. 318—11.

Payne, Matthew H., and B. D. Simpson, to Cedar Rapids Block Co. Wire bending apparatus. 3,027,920, 4–3–62, Cl. 140—71.

Payne, Nigel E., and E. F. Sheldon, to Rolls-Royce Ltd. Stator construction for multi-stage axial-flow compressor. 3,024,968, 3–13–62, Cl. 230—133.

Payne, Oscar V., to The O.K. Tool Co., Inc. Inserted bit-clamping means. 3,027,624, 4–3–62, Cl. 29—105.

Payne, Otis C.: *See*—
Bryant, Clifford, Hackney, and Payne. 3,026,830.

Payne, Paul H., to Owens-Illinois Glass Co. Apparatus for forming surface finishes on glass containers. 3,015,911, 1–9–62, Cl. 49—68.

Payne, Richard B., A. V. Mrstik, and E. N. Case, to Sinclair Research, Inc. Leaded gasoline containing phosphorus and phosphate. 3,056,667, 10–2–62, Cl. 44—69.

Payne, Ronald J. M., and N. Bailey, to Magnesium Elektron Ltd. Magnesium base alloys. 3,039,868, 6–19–62, Cl. 75—168.

Payne, Ronald J. M., and A. W. O. Webb, to J. Stone & Co. (Charlton) Ltd. Copper-base alloys. 3,049,424, 8–14–62, Cl. 75—168.

Payne, Sumas. Hairpin. 3,053,263, 9–11–62, Cl. 132—50.

Payne, Verna L.: *See*—
Charlton, Richard E., Jr., Manning, and Payne. 3,052,-928.

Payne, William C. Dial computer. 3,051,383, 8–28–62, Cl. 235—78.

Payne, William J.: *See*—
Sanderson, Robert W., Purchis, and Payne. 3,028,716.

Payne, William M., Jr., to Burlington Industries, Inc. Apparatus for knitting full-fashioned stocking blank. 3,059,-457, 10–23–62, Cl. 66—128.

Payne, William M., Jr., to Burlington Industries, Inc. Full-fashioned stocking blank and method for knitting the same. 3,068,675, 12–18–62, Cl. 66—182.

Paynter, Donald A., to General Electric Co. Transistor converter. 3,067,378, 12–4–62, Cl. 321—18.

Paynter, Henry M. Lumped structures method and apparatus and approximation of uniform media by lumped structures. 3,044,703, 7–17–62, Cl. 235—184.

Paynton, Harold G., Jr., and E. J. Welch, to Western Electric Co., Inc. Pinning fixture. 3,036,309, 5–29–62, Cl. 1—302.

Payson, Arthur S., and L. J. Darmstadt, to The American Thermos Products Co. Combination vacuum bottle and closure means therefor. 3,017,047, 1–16–62, Cl. 215—13.

Payson, Herbert, Jr. Braiding machine. 3,053,133, 9–11–62, Cl. 87—33.

Payton, Albert: *See*—
Staats, Herbert, and Payton. 3,059,508.

Payton, Donald J.: *See*—
Polleys, Owen F., Payton, and Robinson. 3,016,217.

Payton, Edwin M., and J. W. Slover, to Phillips Petroleum Co. Catalytic conversion of hydrocarbon oils with the use of different types of feed oils. 3,042,196, 7–3–62, Cl. 208—113.

Payton, Hugh W. Umbilical cord clamp. 3,040,749, 6–26–62, Cl. 128—346.

Payton, James Y., and J. C. Larson, to Hughes Aircraft Co. Complementary flip-flop utilizing auxiliary driving transistors. 3,054,907, 9–18–62, Cl. 307—88.5.

Payton, John A.: *See*—
Jenn, Louis J., and Payton. 3,045,579.

Paz, Harold J., and F. P. Keiper, Jr., to Philco Corp. Transistor circuit. 3,030,586, 4–17–62, Cl. 330—19.

Pazan, Seymour, to J. Rosenfeld. Fold-away seat structures. 3,033,614, 5–8–62, Cl. 297—331.

Pazan, Seymour, to Swingline Industrial Corp. Fastening device. 3,037,207, 6–5–62, Cl. 1—44.4.

Pazderski, Roman R.: *See*—
Stremke, William F., W. F. Stremke, Jr., and Pazderski. 3,016,671.
Stremke, William F., W. F. Stremke, Jr., and Pazderski. 3,045,406.

Pazmany, Ladislao, to General Dynamics Corp. Flexible support member. 3,034,752, 5–15–62, Cl. 248—54.

Pazoureck, Joseph B. Fixture hanger. 3,034,755, 5–15–62, Cl. 248—201.

Peabody, Donald W.: *See*—
Rogers, Thomas H., Jr., and Peabody. 3,061,885.

Peabody Engineering Corp.: *See*—
Koplin, Robert, and Gleason. 3,036,626.

Peabody, Glenn R.: *See*—
Tyma, Louis S., Jr., and Peabody. 3,067,674.

Peabody, Ralph C., and K. N. Krier, to G. H. Tennant Co. Adjustable diameter cylindrical brush. 3,023,440, 3–6–62, Cl. 15—183.

Peabody Seating Co., Inc.: *See*—
Barber, Howard B. 3,020,086.
Barber, Howard B. 3,058,794.

Peach, Clyde E., to Paramount Textile Machinery Co. Orthopedic leg brace. 3,026,869, 3–27–62, Cl. 128—80.

Peach, John A., to General Dynamics Corp. Electronic switching telephone system. 3,061,685, 10–30–62, Cl. 179—18.

Peach, John R. Stripping plastic picture frame. 3,060,606, 10–30–62, 40—154.

Peach, Wilbur. Magnetic induction brake. 3,037,133, 5–29–62, Cl. 310—77.

Peacock, Donald R.: *See*—
Bowes, Robert J., Jr., and Peacock. 3,024,184.

Peacock, Francis B.: *See*—
Wadsworth, Alexander S. C., and Peacock. 3,058,783.

Peak, Charles B.: *See*—
Johnson, Ellsworth T., and Peak. 3,031,829.

Peak, Joseph A.: *See*—
De Fezzy, Albert, Hanley, Kenyon, and Peak. 3,021,826.
Peake, Clyde C., and J. E. Hanna. Boat trailer bow guide. 3,021,969, 2–20–62, Cl. 214—84.
Pearce, Cy M., to Brown & Bryant, Inc. Level load trailer. 3,062,563, 11–6–62, Cl. 280—461.
Pearce, Derek C. K., and F. R. Tolmon, to National Research Development Corp. Supports for high sensitivity devices. 3,044,740, 7–17–62, Cl. 248—124.
Pearce Development Co.: *See*—
Pearce, Lewis C. 3,040,456.
Pearce, Lewis C. 3,055,656.
Pearce, Edwin S., to Railway Service and Supply Corp. Journal lubricating pad. 3,042,466, 7–3–62, Cl. 308—243.
Pearce, Edwin S., L. G. Taylor, and T. R. Booth, to Railway Service and Supply Corp. Journal box dust guard. 3,048,414, 8–7–62 Cl. 277—130.
Pearce, Frederick M., to Metropolitan-Vickers Electrical Co. Ltd. Binary counting arrangements. 3,017,542, 1–16–62, Cl. 317—140.
Pearce, Frederick M., and J. W. Hodgkiss, to Metropolitan-Vickers Electrical Co. Ltd. Overheat electrical protection device. 3,019,372, 1–30–62, Cl. 317—13.
Pearce, George C.: *See*—
Bremer, Robert D., and Pearce. 3,069,526.
Carnahan, Leonard L., Fry, Pearce, and Evans. 3,049,114.
Carnahan, Leonard L., Fry, Pearce, and Evans. 3,049,115.
Pearce, George C., and L. R. McDonnold, to General Motors Corp. Domestic oven ventilation system. 3,032,028, 5–1–62, Cl. 126—21.
Pearce, George C., L. McDonnold, and L. M. Miller, to General Motors Corp. Domestic appliance. 3,051,817, 8–28–62, Cl. 219—37.
Pearce, John W.: *See*—
Greenlee, Sylvan O., and Pearce. 3,023,178.
Pearce, John W. Process for purifying acid-containing compositions. 3,022,259, 2–20–62, Cl. 260—22.
Pearce, Kenneth M., to Metropolitan-Vickers Electrical Co. Ltd. Overspeed protection devices. 3,028,461, 4–3–62, Cl. 200—80.
Pearce, Lewis C., to Pearce Development Co. Apparatus for removing trees. 3,040,456, 6–26–62, Cl. 37—2.
Pearce, Lewis C., to Pearce Development Co. Collation of sheet material. 3,055,656, 9–25–62, Cl. 270—58.
Pearce, Peter J.: *See*—
Eames, Charles, Albinson, and Pearce. 3,043,640.
Eames, Charles, Albinson, and Pearce. 3,046,572.
Pearce, Rufus B., Jr., to North American Aviation, Inc. Uniform fuel-air ratio fuel injection system. 3,020,717, 2–13–62, Cl. 60—39.28.
Pearce, Thomas J. P., and W. Stannage, to Imperial Chemical Industries Ltd. Desulfurization of hydrocarbon oils. 3,063,936, 11–13–62, Cl. 208—211.
Pearl, Ben: *See*—
Rapp, Richard. 3,068,871.
Pearlman, Alan R., to Clevite Corp. Statistical distribution device. 3,054,960, 9–18–62, Cl. 328—116.
Pearlman, Albert. Vehicle with height-adjustable top for varying cargo space. 3,061,359, 10–30–62, Cl. 296—26.
Pearlman, Jack, to Hudson Pulp & Paper Corp. Testing paper tissues and the like. 3,060,719, 10–30–62, Cl. 73—7.
Pearlman, Max: *See*—
Rudolph, Walter H., and Pearlman. 3,030,483.
Pearlman, Sidney F. and W. J. Nut meat cleaner. 3,044,621, 7–17–62, Cl. 209—112.
Pearlman, William J.: *See*—
Pearlman, Sidney F. and W. J. 3,044,621.
Pearlstein, Fred, to United States of America, Army. Addition agents for improving electrophoretic deposition of aluminum from organic suspensions. 3,067,120, 12–4–62, Cl. 204—181.
Pearlstine, Morton, to The Bunting Co., Inc. Glider construction. Re. 25,239, 9–11–62, Cl. 297—344.
Pearlstine, Morton, to The Bunting Co., Inc. Glider construction. 3,046,053, 7–24–62, Cl. 297—344.
Pearman, Lawrence. Harvesting machine. 3,059,703, 10–23–62, Cl. 171—61.
Pearne, Florentin J. and F. S., to Pearne and Lacy Machine Co., Inc. Rack loading method and apparatus. 3,055,518, 9–25–62. Cl. 214—16.4.
Pearne, Frank S.: *See*—
Pearne, Florentin J. and F. S. 3,055,518.
Pearne, Frank S., to Pearne and Lacy Machine Co., Inc. Cutting apparatus. 3,019,506, 2–6–62, Cl. 25—108.
Pearne, Frank S., to Regent Jack Mfg. Co., Inc. Bead breaker. 3,051,224, 8–28–62, Cl. 157—1.28.
Pearne and Lacy Machine Co., Inc.: *See*—
Pearne, Florentin J. and F. S. 3,055,518.
Pearne, Frank S. 3,019,506.
Pearring, Jerry M. Cable-passing swivel. 3,033,596, 5–8–62, Cl. 285—261.
Pearsall, Howard W.: *See*—
Goodzeit, Carl L., and Pearsall. 3,022,193.
Pearson, Andrew B.: *See*—
Gusey, Arthur L. 3,023,658.
Pearson, Arthur D.: *See*—
Flaschen, Steward S., and Pearson. 3,024,119.
Pearson, Charles, Jr. Put-together toy piano. 3,057,244, 10–9–62, Cl. 84—404.
Pearson, Charles A., J. W. Gibson, and W. Barthels, to William Pearson Ltd. Disinfectant compositions. 3,063,895, 11–13–62, Cl. 167—31.
Pearson, Dwight H.: *See*—
Troemner, James O., and Pearson. 3,059,742.
Pearson, Eugene W., to Pacific Industrial Mfg. Co. Shear machine and hold-down assembly therefor. 3,054,316, 9–18–62, Cl. 83—390.
Pearson, Frank A.: *See*—
Blecker, Vincent C., Pearson, Weaver, and De Gryse. 3,054,023.
Kromatar, Frederick A., and Pearson. 3,037,101.
Pearson, Fred. Blower for hay baler. 3,020,829, 2–13–62, Cl. 100—102.
Pearson, Gerald L.: *See*—
Chynoweth, Alan G., Feldmann, and Pearson. 3,053,998.
Pearson, Gerald L., to Bell Telephone Laboratories, Inc. Semiconductive device. 3,027,501, 3–27–62, Cl. 317—234.
Pearson, Gerald L., to Bell Telephone Laboratories, Inc. Light sensitive resonant circuit. 3,040,262, 6–19–62, Cl. 330—7.
Pearson, Grace D.: *See*—
Pearson, John M. 3,047,795.
Pearson, Harry A. Bone-conduction all-in-one transistor amplifier hearing aid. 3,030,455, 4–17–62, Cl. 179—107.
Pearson, Harry C., to Portland Iron Works. Lumber feeder. 3,019,882, 2–6–62, Cl. 198—34.
Pearson, Ira J. Teller's window. 3,027,212, 3–27–62, Cl. 312—140.
Pearson, Jack W. Marking device. 3,046,884, 7–31–62, Cl. 101—329.
Pearson, John L., and J. E. Rall; said Pearson assor. to said J. E. Rall. Projectile fire extinguishing device. 3,065,798, 11–27–62, Cl. 169—66.
Pearson, John M., deceased (by G. D. Pearson, executrix), to Sun Oil Co. Bore hole logging methods and apparatus. 3,047,795, 7–31–62, Cl. 324—10.
Pearson, Leonard, to The Babcock & Wilcox Co. Pulverizer control system. 3,050,018, 8–21–62, Cl. 110—101.
Pearson, Paul E.: *See*—
Chebuhar, Charles J., and Pearson. 3,058,512.
Pearson, R. A., Co.: *See*—
Pearson, Reinhold A. 3,038,387.
Pearson, Reinhold A., and Weremiczyk. 3,062,106.
Pearson, Raymond E.: *See*—
James, Varnell R., and Pearson. 3,050,937.
Pearson, Raymond E., to Boeing Airplane Co. Locking means for swing-tail airplanes. 3,043,410, 7–10–62, Cl. 189—35.
Pearson, Reinhold A., to R. A. Pearson Co. Carton setting up machine. 3,038,387, 6–12–62, Cl. 93—37.
Pearson, Reinhold A., and B. Weremiczyk, to R. A. Pearson Co. Apparatus for opening box blanks. 3,062,106, 11–6–62, Cl. 93—53
Pearson, Robert P., to Minneapolis-Honeywell Regulator Co. Fluid quantity control apparatus. 3,025,704, 3–20–62, Cl. 73—204.
Pearson, Robert P., to Minneapolis-Honeywell Regulator Co. Fluid level sensor. 3,042,908, 7–3–62, Cl. 340—24.
Pearson, Tillmon H., and J. K. Presswood, to Ethyl Corp. Manufacture of cyclopentadienyl metal carbonyl compounds. 3,028,404, 4–3–62, Cl. 260—429.
Pearson, Tillmon H., and T. O. Sistrunk, to Ethyl Corp. Process of reacting a group III-A metal with a group IV-A metal halide and hydrogen in a liquid organic medium and the product of said processes. 3,050,470, 8–21–62, Cl. 252—429.
Pearson, Tillmon H., and K. Presswood, to Ethyl Corp. Oxidation of organoboron compounds. 3,061,626, 10–30–62 Cl. 260—462.
Pearson, Walter G.: *See*—
Hurst, Kerney J., and Pearson. 3,045,864.
Pearson, Willard E. Boat top. 3,035,281, 5–22–62, Cl. 9—1.
Pearson, William, Ltd.: *See*—
Pearson, Charles A., Gibson, and Barthels. 3,063,895.
Pearson, William K. J., to The British Aluminium Co. Ltd. Manufacture of metal sheet or strip. 3,049,950, 8–21–62, Cl. 80—56.
Pearson, William S. Serving machine for wrapping wire. 3,026,061, 3–20–62, Cl. 242—129.5.
Pearson, William S. Smoking or like stand. 3,041,031. 6–26–62, Cl. 248—158.
Pearson, William S. Drossing system for galvanizing kettles. 3,041,057, 6–26–62, Cl. 266—1.
Pease, Donald C., to E. I. du Pont de Nemours and Co. Preparation of dihalodifluorosilanes. 3,026,173, 3–20–62, Cl. 23—14.
Pease, F. B., Co.: *See*—
Ganze, Ronald A. 3,064,793.
Pease, Marshall C. Magnetrons. 3,028,522, 4–3–62, Cl. 315—39.63.
Pease, Thomas W.: *See*—
Stevenson, Harry, and Pease. 3,034,811.
Pease, William C., III: *See*—
Van Boorn, Donald W., Pease, Tillery, and Meade. 3,032,830.
Pease, William C., III, to Lummus Cotton Gin Co. Fluid pressure control mechanism for baling presses. 3,046,872, 7–31–62, Cl. 100—52.
Pease, William M.: *See*—
Forrester, Jay W., Pease, McDonough, and Susskind. 3,069,608.

Pease, William M., and T. P. Heuchling. Feedback and command signal combining servosystem to produce quadrature output control voltages. 3,050,668, 8–21–62, Cl. 318—30.

Peasgood, Harold, to Technicolor Corp. Toothed conveyor for cinematographic film and the like. 3,035,749, 5–22–62, Cl. 226—74.

Peasley, John: *See*—
Finta, John G., Di Pasquale, and Peasley. 3,021,557.

Peasley, John W., and F. A. Di Pasquale, to Reliable Packing Co. Adjustable machines for grinding knives and the like. 3,054,229, 9–18–62, Cl. 51—122.

Peavey, F. H., & Co.: *See*—
Schmalz, Frederick D., and Risdal. 3,043,699.

Peay, Paul W., S. F. Reed, and E. R. Redding, to Space Components, Inc. Encapsulated switch. 3,040,143, 6–19–62, Cl. 200—88.

Peberdy, Roland, to The Bentley Engineering Co. Ltd. Circular knitting machine. 3,046,760, 7–31–62, Cl. 66—14.

Pechenik, Jack, to General Motors Corp. Horizontal hydraulic valve lifter. 3,053,239, 9–11–62, Cl. 123—90.

Pechin, Rene G., Jr. Belting for use as condenser tapes in textile carding machinery. 3,058,864, 10–16–62, Cl. 154—52.1.

Pechiney, Compagnie de Produits Chimiques et Electrometallurgiques: *See*—
Becue, Colette. 3,055,736.
Chevigny, Raymond A., and Richaud. 3,033,775.
Clair, Jacques. 3,032,398.
Desbois, Bernard. 3,024,087.
Erdely, Ladislas. 3,069,905.
Gion, Leon. 3,067,048.
Grunert, Erhard. 3,059,038.
Hernandez, José, and Cartoux. 3,030,228.
Jouguet, Marc F. G., and Perret-Bit. 3,063,919.
Menegoz, Charles D. 3,068,062.
Mercier, Henri, and Brun. 3,020,098.
Mercier, Jean. 3,035,106.
Morel, Paul, and Crevot. 3,066,401.
Morel, Paul, and Yelnik. 3,053,748.
Perieres, Rene, and Ruelle. 3,025,333.
Riou, Marcel, and Richaud. 3,016,339.
Riou, Marcel, and Richaud. 3,026,255.
Ruelle, Louis, and Mathieu. 3,025,043.
Soudan, Paul, and Mercier. 3,053,512.

Pechmann, Louis A.: *See*—
Smith, Kenneth L., Smith, and Pechmann. 3,048,111.

Pechy, William, to Westinghouse Electric Corp. Lead-wire forming apparatus. 3,044,327, 7–17–62, Cl. 78—60.

Pechy, William, to Westinghouse Electric Corp. High speed article-feeding device. 3,058,615, 10–16–62, Cl. 221—113.

Peck, Alfred W. Ash disposal container. 3,047,134, 7–31–62, Cl. 206—37.

Peck, Alvin W., to Phillips Petroleum Co. Apparatus for injecting fluid into soil. 3,025,806, 3–20–62, Cl. 111—6.

Peck, Cecil C., to Cecil C. Peck Co. Method of and apparatus for arc welding. 3,069,534, 12–18–62, Cl. 219—137.

Peck, Cecil C., Co.: *See*—
Peck, Cecil C. 3,069,534.

Peck, David B.: *See*—
Schroeder, Walter W., and Peck. 3,056,072.

Peck, David B., and M. Markarlan, to Sprague Electric Co. Multilayer thin film capacitor. 3,041,511, 6–26–62, Cl. 317—242.

Peck, Donald S., and H. J. McGinty, to ACF Industries, Inc. Stabilizer trim force simulation. 3,026,629, 3–27–62, Cl. 35—12.

Peck, Frederic G., to Ranney Refrigerator Co. Refrigerated container with vertically movable doors. 3,059,985, 10–23–62, Cl. 312—279.

Peck, George J.: *See*—
Erenberg, Victor, and Peck. 3,046,574.

Peck, Hildegarde V. and R. L. Sidegate for beds. 3,063,066, 11–13–62, Cl. 5—331.

Peck, James F. Tractor lift combination. 3,054,522, 9–18–62, Cl. 214—674.

Peck, Lee H.: *See*—
Blauvelt, Ralph C., and R. N. and G. H. Lister. 3,026,488.

Peck, Robert L.: *See*—
Peck, Hildegarde V. and R. L. 3,063,066.

Peck, Stuart L., and L. R. Wilson, to The Magnavox Co. Card processing apparatus. 3,016,140, 1–9–62, Cl. 209—72.

Peck, Walter R.: *See*—
Breen, Stanley, and Peck. 3,064,173.

Peck, William C., to United Aircraft Corp. Three-phase voltage responsive speed sensor. 3,044,013, 7–10–62, Cl. 324—70.

Peck, William F., to American Optical Co. Slit lamp apparatus. 3,068,745, 12–18–62, Cl. 88—20.

Pecker, Edwin A.: *See*—
Leavitt, Minard A., Pecker, and Burns. 3,046,336.

Pecker, Edwin A. Weighing apparatus. 3,021,911, 2–20–62, Cl. 177—251.

Peckham, Arthur C. Orthopedic supports. 3,050,053, 8–21–62, Cl. 128—80.

Peckham, Harry E.: *See*—
Monahan, Edward J., and Peckham. 3,047,206.

Peckham, Harry E., to National Biscuit Co. Closure means. 3,069,066, 12–18–62, Cl. 229—62.

Peckham, Roy E., to R. L. Brown. Fastener. 3,019,499, 2–6–62, Cl. 24—73.

Peckjian, Arnold J. Automatic control of machine tools. 3,024,396, 3–6–62, Cl. 318—162.

Peconi, Stephen J.: *See*—
Ouellette, Hector J. 3,027,968.

Pecoraro, Ralph R.: *See*—
Dziedziula, Edward J., Pecoraro, and Sinatra. 3,016,930.

Peczkowski, Joseph L.: *See*—
Adams, Milton R., Peczkowski, and Jandrasi. 3,070,073.

Pedalino, Alfonzas. Self-timing automatic coffee percolator. 3,068,777, 12–18–62, Cl. 99—305.

Peden, Douglas T., and R. W. Militzer, to Micromatic Hone Corp. Ball track honing machine. 3,067,547, 12–11–62, Cl. 51—58.

Pedersen, Arne V.: *See*—
Chase, Corson W., Jasinowski, and Pedersen. 3,062,466.
Chase, Corson W., Jasinowski, and Pedersen. 3,062,467.

Pedersen, Arne V., and E. R. Wirth, to Miehle-Goss-Dexter, Inc. Speed control system. 3,024,395, 3–6–62, Cl. 318—71.

Pedersen, Arne V., R. G. Peterson, and V. J. Hilgoe, to Miehle-Goss-Dexter, Inc. Counting mechanism for printing presses. 3,057,268, 10–9–62, Cl. 93—93.

Pedersen, Charles J., to E. I. du Pont de Nemours and Co. Fuels and process for burning them. 3,038,299, 6–12–62, Cl. 60—35.4.

Pedersen, Charles J., to E. I. du Pont de Nemours and Co. Fuels and process for burning them. 3,038,300, 6–12–62, Cl. 60—35.4.

Pedersen, Harry: *See*—
Ash, John L., II, and Pedersen. 3,046,799.
Glesmann, Louis G., Jr., Pedersen, and Pigage. 3,036,362.

Pedersen, John H., to Burroughs Corp. Document monitoring system. 3,046,538, 7–24–62, Cl. 340—259.

Pedersen, Mathias, to American Machine & Foundry Co. Thread selector mechanism for stitching machine. 3,067,704, 12–11–62, Cl. 112—254.

Pedersen, Nicholas F. Anti-skid device. 3,066,715, 12–4–62, Cl. 152—226.

Pedersen, Nicholas F., and R. P. Lambeck, to United Aircraft Corp. Axial piston pump with balanced radial bearing. 3,056,358, 10–2–62, Cl. 103—162.

Pedersen, Norman R. Radiant heater and method of operating the same. 3,059,086, 10–16–62, Cl. 219—35.

Pedersen, Norman E., and R. Fleischer, to Research Corp. Distance-measuring apparatus and method. 3,019,430, 1–30–62, Cl. 343—12.

Pedersen, Peter S.: *See*—
Hermann, Le Roy N. 3,059,733.
Tripp, Burrell H. 3,059,734.

Pedersen, Peter S., Jr.: *See*—
Hermann, Le Roy N. 3,059,733.
Tripp, Burrell H. 3,059,734.

Pedersen, Raymond L.: *See*—
Babcock, John C., Campbell, Herr, Hogg, and Pederson. 3,016,387.
Babcock, John C., and Pederson. 3,070,612.

Pederson, Raymond L., and J. C. Babcock, to The Upjohn Co. Alkylations of 3-position of a Δ4-11-oxygenated pregnene. 3,019,237, 1–30–62, Cl. 260—397.3.

Pederson, Raymond L., J. C. Babcock, and J. A. Hogg. 2a,17α-dimethyl derivatives of the androstane series. 3,067,218, 12–4–62, Cl. 260—397.45.

Pederson, Raymond L., and J. C. Babcock, to The Upjohn Co. 11-keto-17-oxygenated-pregnane derivatives. 3,069,437, 12–18–62, Cl. 260—397.45.

Pedigo, Chester L., to Chemetron Corp. Stabilization of reduced metal catalyst and apparatus therefor. 3,033,802, 5–8–62, Cl. 252—472.

Pedler, Alan E., to National Alloys Ltd. Nickel plating. 3,041,254, 6–26–62, Cl. 204—49.

Pedler, Albert H., to Minerals & Chemicals Philipp Corp. Activation of clay by acid treatment, aging in conditioned oil, and calcination. 3,024,205, 3–6–62, Cl. 252—450.

Pedrick, John L., to Scott Paper Co. Papermachine breast roll. 3,017,928, 1–23–62, Cl. 162—289.

Pedrick, Robert F., to General Dynamics Corp. Annoyance call trapping circuit. 3,015,698, 1–2–62, Cl. 179—18.

Peebles, David D., to Foremost Dairies, Inc. Sterilizing process. 3,052,559, 9–4–62, Cl. 99—214.

Peebles, David D., and P. D. Clary, Jr., to Foremost Dairies, Inc. Method of producing a preserved egg white product. 3,062,665, 11–6–62, Cl. 99—210.

Peek, Charles A., Jr., to United Aircraft Corp. Turbo-fan engine thrust reverser. 3,019,600, 2–6–62, Cl. 60—35.54.

Peek, Henry L.: *See*—
Perry, Elijah R., and Peek. 3,021,410.

Peek, Marion L., and N. E. Wahlstrom, to Reynolds Aluminum Supply Co. Shutter construction and method of making the same. 3,055,467, 9–25–62, Cl. 189—54.

Peek, Robert L., Jr.: *See*—
Keller, Arthur C., Peek, Schneider, and Spahn. 3,042,773.

Peek, Robert L., Jr., to Bell Telephone Laboratories, Inc. Electrical switching device. 3,059,075, 10–16–62, Cl. 200—87.

Peek, Robert L., Jr., to Bell Telephone Laboratories, Inc. Switching device. 3,061,696, 10–30–62, Cl. 200—87.

Peek, Sandford C., Jr., and W. H. Hay, to Sylvania Electric Products Inc. Projection lamp. 3,070,723, 12–25–62, Cl. 313—113.

Peel, Robert: *See*—
Mahler, Peter A., and Peel. 2,062,028.

Peel, Robert, to Singer Fidelity, Inc. Method and apparatus for yarn end control. 3,030,788, 4–24–62, Cl. 66—140.
Peel, Robert, to Singer-Fidelity, Inc. Electrothermal yarn cutter and yarn drag for knitting machines. 3,040,549, 6–26–62, Cl. 66—145.
Peelers Co., The: *See*—
Lapeyre, Fernand S. and J. M. 3,020,583.
Lapeyre, Fernand S., J. M., and Demarest. 3,018,510.
Lapeyre, Fernand S., and J. M., and Demarest, and Couret. 3,037,237.
Peelquik Co., Inc.: *See*—
Reid, William. 3,059,679.
Peen Plate, Inc.: *See*—
Clayton, Erith T. 3,023,127.
Peeples, Robert M.: *See*—
Mozina, Alfred L., and Peeples. 3,031,604.
Peeples, Robert M., and E. F. Boening, to Allis-Chalmers Mfg. Co. Tension maintaining motor control system. 3,060,358, 10–23–62, Cl. 318—6.
Peeps, Donald J., and F. W. Hoffman, to The De Vilbiss Co. Heat exchanger. 3,020,026, 2–6–62, Cl. 257—246.
Peer, Robert W.: *See*—
Eigen, David, and Peer. 3,032,652.
Peer, Robert W., and D. Eigen, to The Okonite Co. Interference-free probe apparatus for testing insulated electric conductors. 3,047,799, 7–31–62, Cl. 324—54.
Peer, Robert W., and D. Eigen, to The Okonite Co. Apparatus for removing spurious signals from electromagnetic probing devices. 3,047,804, 7–31–62, Cl. 324—149.
Peerless Aluminum Foundry Co., Inc.: *See*—
Hardy, Peter S. 3,051,159.
Peerless Corp.: *See*—
Law, Foster C., Jr. 3,044,073.
Peerless Equipment Co.: *See*—
Dudley, Edmond R. 3,018,437.
Dudley, Edmond R. 3,032,709.
Peerless Machine & Tool Co., Inc.: *See*—
Carson, Robert H. 3,033,434.
Peerless Photo Products, Inc.: *See*—
Basch, Reinhold E. 3,048,486.
Peerless Tube Co.: *See*—
Remington, Frederic, and Tartaglia. 3,036,550.
Remington, Frederic, and Tartaglia. 3,066,723.
Remington, Frederic, and Tartaglia. 3,066,784.
Peet, Charles S.: *See*—
Layer, Edwin H., Jr., and Peet. 3,018,238.
Peet, Nick P.: *See*—
Andrews, Jack M., Corneil, Peet, and Roquemore. Re. 25,220.
Peet, William H. Accumulator. 3,020,928, 2–13–62, Cl. 138—30.
Peet, William H. Accumulator. 3,066,699, 12–4–62, Cl. 138—30.
Peeters, Jozef A., to International Standard Electric Corp. Mechanism for the automatic processing of documents. 3,053,530, 9–11–62, Cl. 271—30.
Peffen, Rene: *See*—
Andrieux, Jean L., and Peffen. 3,016,288.
Peffer, Edward C., Jr., to Cluett, Peabody & Co., Inc. Automatic feed device. 3,026,109, 3–20–62, Cl. 271—32.
Peffer, Ralph M., to Resistance Products Co. Emergency battery. 3,046,325, 7–24–62, Cl. 136—90.
Peffer, Roland J., to Minnesota Mining and Mfg. Co. Sealant composition. 3,025,177, 3–13–62, Cl. 106—287.
Peglow, Walter: *See*—
Given, Bertram, and Peglow. 3,064,662.
Peglow, William E., to Swift & Co. Packaging. 3,020,692, 2–13–62, Cl. 53—392.
Pegnani, Frank. Rotary mower construction. 3,068,631, 12–18–62, Cl. 56—25.4.
Pegram, John B., to Statham Instruments, Inc. Differential transistorized amplifier. 3,042,876, 7–3–62, Cl. 330—19.
Pegram, William B., to International Resistance Co. Transducer. 3,044,029, 7–10–62, Cl. 336—30.
Pegram, William B., to International Resistance Co. Pressure responsive device. 3,048,040, 8–7–62, Cl. 73—412.
Peichl, Vasalle L.: *See*—
Rhoads, George D., Peichl, and Carson. 3,021,161.
Peifer, Wilbert A., to Allegheny Ludlum Steel Corp. Rapid gas analysis. 3,062,624, 11–6–62, Cl. 23—230.
Peignier, Pierre M. R. L.: *See*—
Boussu, Gabriel X. R., Neuville, Saint-Frison, and Peignier. 3,060,160.
Pellet, Lester R. Spring-actuated self-cleaning retractable brush or the like. 3,059,260, 10–23–62, Cl. 15—184.
Pellet, Lester R. Retractable brushes or the like with locking devices. 3,065,757, 11–27–62, Cl. 132—9.
Pellet, Lester R., and P. Kaye; said Kaye assor. to said Pellet. Retractable brushes with finger operated bristle plates. 3,055,033, 9–25–62, Cl. 15—184.
Pellet, Lester R., H. G. Saperstein, and A. E. Goldfarb. Retractable brushes. 3,059,259, 10–23–62, Cl. 15—184.
Peimer, Stanley L. Slide closure carton. 3,033,436, 5–8–62 Cl. 229—17.
Peirce, Andrew W., to Clark Equipment Co. Foundry machine. 3,063,106, 11–13–62, Cl. 22—31.
Peirce, John E., and J. H. Phillips, to Ozark-Mahoning Co. Discharge seal device for rotating vessels. 3,021,202, 2–13–62, Cl. 23—286.
Peirce, Thomas H. Suspension system. 3,031,179, 4–24–62, Cl. 267—31.
Peirce, Thomas H. Mounting. 3,035,799, 5–22–62, Cl. 248—15.
Peissker, Horst, and A. Jager, to Schering A.G. Method of producing a product having a base of phosphoric acid esters suitable for use as a pest control agent. 3,069,453, 12–18–62, Cl. 260—461.
Peithman, Harlan W.: *See*—
Jay, David J., and Peithman. 3,055,312.
Pekarek, Joseph L.: *See*—
Huitt, Jimmie L., Pekarek, and Teplitz. 3,062,294.
Huitt, Jimmie L., Pekarek, and Topanelian. 3,050,122.
Pekay Machine & Engineering Co., Inc.: *See*—
Parisi, Jules T. 3,048,903.
Pekrul, Arthur F., to The New Britain Machine Co. Work-transfer mechanism for a machine tool. 3,054,513, 9–18–62, Cl. 214—1.
Pekrul, Ewald: *See*—
Gnade, Walter, and Pekrul. 3,053,335.
Pekrul, Ewald, to Westinghouse-Bremsen-Gesellschaft. m.b.H. Tractor-trailer air brake apparatus. 3,068,050, 12–11–62, Cl. 303—8.
Pelabon, Andre, to Les Societe Anonyme dite: Atellers de Construction du Nord de la France. Hydraulic shock-absorber. 3,040,907, 6–26–62, Cl. 213—43.
Pelavin, Milton H., to Technicon Instruments Corp. Analysis and recording apparatus and temperature compensating means therefor. 3,031,915, 5–1–62, Cl. 88—14.
Pelavin, Milton H., to Technicon Instruments Corp. Recorder means for fluid examination apparatus. 3,031,917, 5–1–62, Cl. 88—14.
Pelcin, Albert L., to The Eastern Malleable Iron Co. Door control mechanism. 3,044,287, 7–17–62, Cl. 70—99.
Pelcin, Albert L., to The Eastern Co. Door control mechanism. 3,044,814, 7–17–62, Cl. 292—126.
Pelcin, Albert L., to The Eastern Co. Latch mechanism. 3,053,204, 9–25–62, Cl. 70—153.
Peldon, Milton: *See*—
Luftglass, Murray A., and Peldon. 3,041,310.
Pelenc, Yves. Quick acting magnets and electromagnets. 3,031,602, 4–24–62, Cl. 317—172.
Pelishek, Roy L. and W. M. McNamar, to Glass, Marvin, d.b.a. Glass, Marvin & Associates. Sound producing device for toy guns and the like. 3,023,541, 3–6–62, Cl. 46—175.
Pelkey, Arthur D. Mold for use in welding chain links. 3,015,716, 1–2–62, Cl. 219—130.
Pell, Erik M., to General Electric Co. Semiconductor devices and method of making the same. 3,016,313, 1–9–62, Cl. 148—1.5.
Pell, Jimmie W.: *See*—
Schreiner, Paul E., and Pell. 3,039,626.
Pell, Kalman L.: *See*—
Mathews, Donald K., Johanson, and Pell. 3,070,373.
Pell, Kenneth M. Step and repeat photographic apparatus. 3,057,281, 10–9–62, Cl. 95—73.
Pellaton, Ernest C., W. W. McGimpsey, and L. J. Saffores, to Fibreboard Paper Products Corp. Reclosable carton. 3,029,827, 4–17–62, Cl. 229—17.
Pelledeau, Maurice, to Standard Research Consultants, Inc. Pump. 3,034,445, 5–15–62, Cl. 103—121.
Pellegrini, Dante. Thread dyeing apparatus. 3,023,599, 3–6–62, Cl. 68—213.
Pellegrini, John P., Jr.: *See*—
Fareri, Elizabeth L., and Pellegrini. 3,020,135.
Fareri, Elizabeth L., and Pellegrini. 3,039,956.
Fareri, Elizabeth L., and Pellegrini. 3,048,607.
Fareri, Elizabeth L., and Pellegrini. 3,070,429.
McGrath, Joseph J., and Pellegrini. 3,047,498.
Pellegrini, John P., Jr., to Gulf Research & Development Co. Beta-diketones in aviation turbine fuels. 3,047,375, 7–31–62, Cl. 44—77.
Pellegrini, John P., Jr., and H. O. Strange, to Gulf Research & Development Co. Rare earth salts of phosphoric acid diesters. 3,067,224, 12–4–62, Cl. 260—429.2.
Pellegrino, Louis C., to Marlo Coil Co. Heat exchanger. 3,026,092, 3–20–62, Cl. 257—50.
Pellegrini, Louis C., to Marlo Coil Co. Dampers. 3,055,284, 9–25–62, Cl. 98—110.
Pellegrino, Michael N., and L. N. Innelli. Educational device. 3,063,164, 11–13–62, Cl. 35—66.
Pelletier, Zephirin. Tightening device for cables, chains and the like elongated flexible elements. 3,062,502, 11–6–62, Cl. 254—51.
Pellett, Allwin W., to Sperry Rand Corp. Harvester. 3,044,-391, 7–17–62, Cl. 100—148.
Pellett, Allwin W., to Sperry Rand Corp. Compressing apparatus. 3,054,343, 9–18–62, Cl. 100—148.
Pellett, Fred G., to Owens-Illinois Glass Co. Apparatus for flame-treating plastic articles. 3,026,100, 3–20–62, Cl. 263—6.
Pelley, Perry H., to Tru-Scale, Inc. Method of making structural panel articles. 3,037,897, 6–5–62. Cl. 156—78.
Pelley, Perry H., and L. A. Paul, to Wheelabrator Corp. Subbing surfaces. 3,067,021, 12–4–62, Cl. 51—320.
Pellmyr, Bengt, to Aktiebolaget Svenska Fläktfabriken. Heat-exchangers. 3,028,149, 4–3–62, Cl. 257—148.
Pellon, Joseph J.: *See*—
Deichert, William G., and Pellon. 3,043,810.
Pells, Brian A.: *See*—
Hitch, Eric G., Pells, and Fleetwood. 3,030,445.
Pelm Research and Development Corp.: *See*—
Pixley, Francis V., and G. W., and Lopinot. 3,037,940.
Peloquin, Hector. Method for attaching an identification card. 3,061,964, 11–6–62, Cl. 40—316.
Pelosi, Joseph: *See*—
Palazzo, Anthony. 3,047,877.

Pelosi, Samuel, Jr.: *See*—
Palazzo, Anthony. 3,047,877.
Pelouch, James J., to Curtis Mfg. Co. Vehicle lift. 3,036,-662, 5–29–62, Cl. 187—8.75.
Pelouch, James J., to Curtis Mfg. Co. Vehicle lifting mechanism. 3,060,900, 10–30–62, Cl. 121—46.
Pelow, William E. Turf repair tool. 3,049,182, 8–14–62, Cl. 172—378.
Pels, Alan R., and W. A. Backofen, to National Distillers & Chemical Corp. Method of enhancing the cold radial expansion properties of hollow brass rivets. 3,022,525, 2–27–62, Cl. 10—27.
Pelsue, Garvin, to The Jaeger Machine Co. Slip-form paver. 3,015,260, 1–2–62, Cl. 94—46.
Pelt, James D. Can carrier and single can holder. 3,018,-919, 1–30–62, Cl. 220—113.
Peltier, Henry C.: *See*—
Blackman, Seymour N., and Peltier. 3,069,810.
Peltner, Johannes, et al.—
Weinrich, Hellmut, Muller, and Peltner. 3,023,639.
Peltola, Veikko K., to Illinois Testing Laboratories, Inc. Magnetic air velocity transducer. 3,015,953, 1–9–62, Cl. 73—194.
Pelton, Walter S., and N. R. Odell, to Texaco Inc. Process for preparing complex calcium salt-calcium soap grease. 3,068,174, 12–11–62, Cl. 252—39.
Peltz, Gordon M., to The Phoenix Glass Co. Lighting device. 3,020,395, 2–6–62, Cl. 240—106.
Pelunis, Lee M. Hugging doll. 3,053,008, 9–11–62, Cl. 46—119.
Pelz, Willibald: *See*—
Burgardt, Lothar, Pelz, and Wahl. 3,034,891.
Menzel, Karl-Heinz, Wahl, and Pelz. 3,061,432.
Puschel, Walter, Wahl, Pelz, and Schellenberger. 3,028,238.
Pelzer, Arthur D.: *See*—
Schwanke, Walter G., and Pelzer. 3,029,533.
Pelzer, Hans: *See*—
Reiff, Wilhelm, and Pelzer. 3,048,282.
Pelzer, Hans K., to Beteiligungs-und Patentverwaltungsgesellschaft mit beschrankter Haftung. Loading arrangement for successively and in a continuous manner loading a plurality of compartments. 3,052,364, 9–4–62, Cl. 214—16.
Pelzer, Harry L., to Sinclair Oil & Gas Co. Process for recovering viscous crude oil from unconsolidated formations. 3,040,809, 6–26–62, Cl. 166—40.
Pemberton, Paul E., and E. L. Stroup, to Overhead Door Corp. Hinge and track engaging roller support for slidable closures. 3,060,491, 10–30–62, Cl. 16—97.
Pembroke Carton & Printing Co. Ltd.: *See*—
Bayley, Frederick J. 3,023,680.
Bayley, Frederick J., and Nichols. 3,028,797.
Gage, Jack G. 3 038,388.
Nichols, Lawrence E. 3,067,654.
Pembroke, George F.: *See*—
Molins, Desmond W., Pembroke, and Hillman. 3,070,207.
Pembroke, George F., and J. G. E. Hillman, to Molins Machine Co. Ltd. Apparatus for collecting cigarettes in receptacles. 3,026,661, 3–27–62, Cl. 53—148.
Pemco Wheel Co.: *See*—
Black, John W. 3,022,535.
Murphy, Thomas H. 3,051,981.
Penasse, Lucien: *See*—
Hagemann, Guy, Nomine, Penasse, and Teillon. 3,052,-605.
Nomine, Gerard, and Penasse. 3,036,081.
Nomine, Gerard, and Penasse. 3,062,807.
Velluz, Leon, Nomine, and Penasse. 3,033,750.
Velluz, Leon, Nomine, Pierdet, Rousseau, and Penasse. 3,065,140.
Penau, Henry, and G. Hagemann, to Roussel-UCLAF, S.A. New salts of isonicotinic acid hydrazone compounds and a process of making same. 3,042,581, 7–3–62, Cl. 167—65.
Penberthy, Harvey L. Method of homogenizing glass. 3,030,-736, 4–24–62, Cl. 49—77.
Penberthy, Harvey L. Apparatus and method of homogenizing glass. 3,053,517, 9–11–62, Cl. 259—103.
Pence, Elbert A., to United States of America, Navy. Underwater target. 3,024,440, 3–6–62, Cl. 340—4.
Pence, Henry E., to St. Joseph Lead Co. Apparatus for densifying bulky powders. 3,034,421, 5–15–62, Cl. 100—43.
Penczek, Edward S., and R. W. Furguson, to General Dynamics Corp. Chemical cleaning of printed circuits. 3,020,175, 2–6–62, Cl. 117—49.
Pender, David R. Amphibian vehicle. 3,026,841, 3–27–62, Cl. 115—1.
Pender, Lloyd G., Sr., to United-Carr Fastener Corp. Tubing clip. 3,015,140, 1–2–62, Cl. 24—73.
Pender, Lloyd G., Sr., to United-Carr Fastener Corp. Fastening installation. 3,018,530, 1–30–62, Cl. 24—73.
Pendergast, Lawrence C.: *See*—
Scholl, William M., and Pendergast. 3,026,233.
Pendergraft, Billy D.: *See*—
Wilkinson, Alvin H., and Pendergraft. 3,032,147.
Pendergrast, John B., Jr., and W. F. Browning, Jr. Commodity rack. 3,045,831, 7–24–62, Cl. 211—49.
Pendleton, Elmer L.: *See*—
Honea, Charles R., Latta, and Pendleton. 3,054,778.

Pendleton, Frank P., to Vac-U-Max. Device for fluidizing and conveying fluent particles of material. 3,031,233, 4–24–62, Cl. 302—58.
Pendleton, Frank P., to Vac-U-Max. Suction creating apparatus. 3,061,179, 10–30–62, Cl. 230—103.
Pendleton, Harry E.: *See*—
Fischer, William, and Pendleton. 3,034,555.
Pendley, William Q. Sheet transfer device. 3,022,997, 2–27–62, Cl. 271—27.
Penetrascope Ltd.: *See*—
Pocknee, James K. 3,020,752.
Penetray Corp.: *See*—
Cohune, Harry E., and Howard. 3,050,230.
Pengilly, Brian W., to The Goodyear Tire & Rubber Co. Production of polyesters. 3,047,539, 7–31–62, Cl. 260—75.
Pengilly, Brian W., to The Goodyear Tire & Rubber Co. Process for preparing linear polyesters using triaryl arsine catalyst. 3,062,786, 11–6–62, Cl. 260—75.
Pengilly, Peter J., to The Procter & Gamble Co. Preparation of detergent compositions. 3,031,498, 4–24–62, Cl. 260—505.
Penhurst Machine Co.: *See*—
Nulick, Harry J. 3,068,738.
Penick & Ford, Ltd., Inc.: *See*—
Hjermstad, Erling T. 3,069,411.
Hjermstad, Erling T., and Kesler. 3,062,810.
Penick, S. B., and Co.: *See*—
Clark, John R. 3,042,679.
Clark, John R. 3,042,711.
Haus, Joseph B., and Price. 3,042,706.
Moses, William. 3,022,228.
Van de Griendt, Gerald H. 3,022,286.
Peninsular Chem Research, Inc.: *See*—
Butler, George B. 3,044,986.
Peninsular Distributing Co.: *See*—
Nickell, Claude H. 3,021,078.
Penitz, Ferdinand J., to United States Steel Corp. Apparatus for coiling wire. 3,062,472, 11–6–62, Cl. 242—82.
Penkala, John F.: *See*—
Morris, Louis, Jr., and J. F. and S. F. Penkala. 3,039,156.
Penkala, Stanley F.: *See*—
Morris, Louis, Jr., and J. F. and S. F. Penkala. 3,039,156.
Penkoff, Theodore, and J. Dineen, to Theodore Penkoff & Co., Inc. Circumferentially traveling type tire changing apparatus. 3,036,625, 5–29–62, Cl. 157—1.24.
Penkoff, Theodore, & Co., Inc.: *See*—
Penkoff, Theodore, and Dineen. 3,036,625.
Penksa, Stanley. Tampon napkin. 3,037,506, 6–5–62, Cl. 128—285.
Penland, Ray B., to United States Borax & Chemical Corp. Method for producing sodium borates of lowered iron content. 3,067,113, 12–4–62, Cl. 204—112.
Pen-Mac-Nye Co.: *See*—
Nye, Norman H. 3,039,713.
Penman, John S. Transferable load containers. 3,023,918, 3–6–62, Cl. 214—38.
Penn, Abe D. Spring belt driven conveyor for sheet materials. 3,026,993, 3–27–62, Cl. 198—127.
Penn-Akron Corp.: *See*—
Faber, Benjamin S. 3,050,324.
Penn Controls, Inc.: *See*—
Fyda'iek, Floyd J., Dietz, and Matthews. 3,024,812.
Hajny, Charles E. 3,038,950.
Hilgert, Adolph J. 3,048,113.
Kaminky, Oscar H. 3,046 368.
Matthews, Russell B. 3,034 571.
Matthews, Russell B. 3,046,321.
Matthews, Russel B. 3,055,418.
Schutmaat, Wayne H. 3,062 525.
Schutmaat, Wayne H., and Reyden. 3,066,694.
Siri, Louis J. 3,015,235.
Siri, Louis J. 3,038,974.
Siri, Louis J. 3,066,698.
Wagner, Leland B. 3,038 978.
Wagner, Leland B. 3,059,080.
Wilder, Justin E. 3 032,098.
Penn Dale Knitting Mills: *See*—
Faust, Martin H., and Stevenson. 3,063,271.
Penn Metal Co., Inc.: *See*—
Clark, Raymond C. 3,015,194.
Penn, Reginald, to Wipac Development Ltd. Ignition apparatus for internal combustion engines. 3,032,687, 5–1–62, Cl. 315—206.
Pennell, James K., Jr. Method of casting dished items. 3,066,376, 12–4–62, Cl. 25—155.
Penner, Arthur H., to Harris-Intertype Corp. Plate clamp for printing press. 3,017,830, 1–23–62, Cl. 101—415.1.
Penney, Gaylord W. Industrial precipitator with temperature-controlled electrodes. 3,026,964, 3–27–62, Cl. 183—7.
Penney, Gaylord W. Two-stage precipitator. 3,066,463, 12–4–62, Cl. 55—139.
Penney, Harlan B., and P. A. Robertson, to J. W. Penney & Sons Co. Cable grip. 3,037,464, 6–5–62, Cl. 104—209.
Penney, J. W., & Sons Co.: *See*—
Penney, Harlan B., and Robertson. 3,037,464.
Penney, Robert V.: *See*—
Grant, Paul M., and Penney. 3,016,507.
Pennie, John: *See*—
Klaessig, Henry, Pennie, and Clay. 3,018,185.

Pennington, Edgar T. 3,067,346.
Ray, John G. 3,067,356.
Ropp, Richard C. 3,067,145.
Pennington, Edgar T., to Sylvania Electric Products Inc. Ionization vacuum gauge. 3,067,346, 12–4–62, Cl. 313—7.
Pennington, Edward S., R. F. Dye, B. T. Brown, and J. Q. Wood, to Phillips Petroleum Co. Emergency shutdown process and system for carbon black plant. 3,038,788, 6–12–62, Cl. 23—259.5.
Pennington, John W., to Koppers Co., Inc. Rapper. 3,030,-753. 4–24–62, Cl. 55—112.
Pennington, Kermit M. Credit card system controlled by dials of gasoline pump. 3,053,415, 9–11–62, Cl. 222—30.
Pennington, Lacy K. Scaffolds. 3,024,877, 3–13–62, Cl. 189—19.
Pennington, Neal A. Universal air conditioner. 3,042,383, 7–3–62, Cl. 257—281.
Pennington, Philip R., to Hughes Aircraft Co. Method of preparing semiconductor. 3,041,226, 6–26–62, Cl. 156—17.
Pennington, Robert E., to Esso Research and Engineering Co. Continuous process for oxidation of alkyl benzenes. 3,047,-615, 7–31–62, Cl. 260—475.
Pennington, Robert E., L. T. Yule, and C. F. Snyder, to Esso Research and Engineering Co. Ester preparation by oxidation of hydrocarbons. 3,047,612, 7–31–62, Cl. 260—475.
Pennington, Robert E., and J. K. Nickerson, to Esso Research and Engineering Co. Condensate recovery in oxidation of alkyl benzenes. 3,047,614, 7–31–62, Cl. 260—475.
Pennington, Thomas, II: *See*—
Cannon, George E., Overly, Root, and Pennington. 3,059,-708.
Pennino, Charles J., to The B. F. Goodrich Co. Method for preparing alpha-halo acrylic acids and esters thereof. 3,027,402, 3–27–62, Cl. 260—486.
Pennow, Willis A., to Westinghouse Electric Corp. Synchronized pulsing system. 3,054,913, 9–18–62, Cl. 307—132.
Pennoyer, Robert T.: *See*—
Finley, Edwin D., and Pennoyer. 3,067,911.
Pensalt Chemicals Corp.: *See*—
Albert, Harry. 3,060,158.
Barr, John T. 3,020,267.
Barr, John T. 3,025,279.
Barr, John T. 3,053,815.
Braid, Milton, and Lawlor. 3,038,936.
Deger, Thomas E., Buchholz, and Goshorn. 3,035,097.
Deger, Thomas E., and Smith. 3,063,880.
De Hilster, Cornelis C. 3,062,779.
Dess, Howard M. 3,038,900.
Gall, John F. 3,038,955.
Gall, John F. 3,066,058.
Goshorn, Roland H., Buchholz, and Deger. 3,036,133.
Haines, Paul G., and Albert. 3,068,198.
Haszeldine, Robert N., Iserson, and Lawlor. 3,069,481.
Hauptschein, Murray. 3,019,253.
Hauptschein, Murray. 3,052,693.
Hauptschein, Murray. 3,065,135.
Hauptschein, Murray, and Braid. 3,047,636.
Hauptschein, Murray, Braid, and Lawlor. 3,019,258.
Hauptschein, Murray, Braid, and Lawlor. 3,051,764.
Inman, Charles E., Oesterling, and Tyczkowski. 3,030,-408.
Inman, Charles E., Oesterling, and Tyczkowski. 3,067,-211.
Inman, Charles E., Oesterling, and Tyczkowski. 3,070,-593.
Inman, Charles E., Oesterling, and Tyczkowski. 3,070,-609.
Iserson, Hyman. 3,031,437.
Iserson, Hyman. 3,046,261.
Iserson, Hyman, Lawlor, and Hauptschein. 3,062,794.
Koblitz, Francis F., and Morton. 3,057,928.
Kowalski, Alexander. 3,023,194.
Lawlor, Francis E., and Truchan. 3,051,749.
Lederman, Burton E., and Capron. 3,053,807.
Lee, William M. 3,024,125.
Loev, Bernard, and Olin. 3,069,472.
Lowdermilk, Ford R., and MacKay. 3,069,345.
Moekrin, Isadore. 3,016,480.
Mohan, Joseph C., Jr. 3,030,177.
Olin, John F., Buchholz, Loev, and Goshorn. 3,070,632.
Popoff, Ivan C., and Albert. 3,035,014.
Schuster, Ludwig K., and Baldi. 3,031,333.
Schuster, Ludwig K., and Baldi. 3,053,693.
Schuster, Ludwig K., and Baldi. 3,053,702.
Scott, Francis L. 3,047,589.
Scott, Francis L. 3,062,813.
Scott, Francis L., and Smith. 3,039,997.
Staubly, Julian L., and Koob. 3,057,748.
Pennstrom, Robert: *See*—
Acomb, Byron H., Pennstrom, and Carkhuff. 3,029,840.
Pennsylvania Engineering Corp.: *See*—
McFeaters, Harry L. 3,026,102.
McFeaters, Harry L., and Lakin. 3,022,990.
Pennsylvania Industrial Chemical Corp. *See*—
Epstein, Martin E., and Gangemi. 3,023,200.
Pennsylvania Railroad Co., The: *See*—
Decker, Harry L. 3,070,043.
Miller, Donald E. 3,017,841.
Pennucci, Enrico E. Binaural sound phonograph reproducer and adapter. 3,032,614, 5–1–62, Cl. 179—100.41.
Penn-Union Electric Corp.: *See*—
Cornell, Edward S., Jr. 3,029,410.
Cornell, Edward S., Jr. 3,041,574.
Cornell, Edward S., Jr. 3,057,232.
Pennway Garment Co.: *See*—
Sayles, Raymond E. 3,040,683.
Penny, Chester F., to Sleeper & Hartley, Inc. Machine for looping coil springs. 3,069,024, 12–18–62, Cl. 214—1.
Penobscot Shoe Co.: *See*—
Grossman, Jerome H. 3,036,390.
Grossman, Jerome H. 3,050,876.
Penone, Hugh P.: *See*—
Auffenorde, James E., and Penone. 3,019,136.
Penote, Vincent S., to The Cleveland Trencher Co. Excavating machine. 3,037,305, 6–5–62, Cl. 37—91.
Penote, Vincent S., and H. L. Meyer, to The Cleveland Trencher Co. Excavating machine. 3,054,199, 9–18–62, Cl. 37—90.
Penoyer, Charles E., to The Sherwin-Williams Co. Tag rag. 3,016,555, 1–16–62, Cl. 15—209.
Pensak, Louis, to Radio Corp. of America. Semiconductor devices and methods of fabricating them. 3,070,520, 12–25–62, Cl. 204—15.
Penson, Michael: *See*—
Deville, Arthur E., and Penson. 3,035,159.
Penta Laboratories, Inc.: *See*—
Werner, James J. 3,051,592.
Pentecost, Eugene E., to North American Aviation, Inc. Self-synchronous motor system. 3,045,154, 7–17–62, Cl. 318—23.
Pentén, Lars E. Lock nut having helical spring locking means. 3,023,796, 3–6–62, Cl. 151—14.
Pentron Electronics Corp.: *See*—
Arnold, Nicholas H., and Thompson. 3,019,011.
Bretz, Frank E., Jr. 3,040,597.
Pentzien, Louis I. Segmental pontoon-buoy. 3,060,463, 10–30–62, Cl. 9—1.
Pentzlin, Kurt. Process for making baked products containing fatty fillings. 3,056,678, 10–2–62, Cl. 99—86.
Penver, Gilbert F.: *See*—
Varrall, John E., and Penver. 3,035,218.
Peoples, Graydon, and D. H. Vreeland, to Lennox Industries, Inc. Oil burner. 3,051,228, 8–28–62, Cl. 158—76.
Peoples, Virgil H., and J. R. West, to The O. M. Scott & Sons Co. Spreader construction. 3,015,416, 1–2–62, Cl. 222—41.
Pepe, Anthony E.: *See*—
Greenspan, Frank P., and Pepe. 3,030,336.
Pepe, Enrico J. Process for producing chloroalkylsilicon compounds. 3,053,873, 9–11–62, Cl. 260—448.2.
Pepe, Enrico J., and B. Kanner, to Union Carbide Corp. Process for the production of cyanoalkylfluorosilane. 3,053,-874, 9–11–62, Cl. 260—448.2.
Pepe, Enrico J., and B. Kanner, to Union Carbide Corp. Process for the preparation of organosilicon compounds. 3,054,817, 9–18–62, Cl. 260—448.2.
Pepe, Enrico J., and B. Kanner, to Union Carbide Corp. Silicon-nitrogen compounds and process for the preparation thereof. 3,054,818, 9–18–62, Cl. 260—448.8.
Peperissa, Thomas C., and A. Pressman, to United States of America, Air Force. Transistor switching device. 3,025,-410, 3–13–62, Cl. 307—88.5.
Peplin, Stephen C., to Lakewood Mfg. Co. Flexible filler tube assembly. 3,016,161, 1–9–62, Cl. 220—86.
Peplin, Stephen C., to Lakewood Mfg. Co. Ball wheel and method of making the same. 3,016,241, 1–9–62, Cl. 273—49.
Pepling, James A.: *See*—
Atkins, Carl E., and Pepling. 3,025,434.
Peppard, Donald F., and G. W. Mason, to United States of America, Atomic Energy Commission. Separation of californium from curium by solvent extraction. 3,034,854, 5–15–62, Cl. 23—14.5.
Peppel, William J., and J. D. Watkins, to Jefferson Chemical Co., Inc. Method of transvinylating. 3,019,231, 1–30–62, Cl. 260—307.
Pepper, Rollin E., and E. R. Lieberman, to Ethicon, Inc. Dialdehyde alcoholic sporicidal composition. 3,016,328, 1–9–62, Cl. 167—22.
Pepperell Mfg. Co.: *See*—
Arcand Adelard J. 3,048,196.
Spencer, Francis T. 3,037,262.
Spencer, Francis T. 3,068,836.
Pepperidge Farm Inc.: *See*—
Halbach, Robert W. 3,061,441.
Per Corp.: *See*—
Hobson, Russell B., Jr. 3,034,652.
Pera, John D.: *See*—
Buckman, Stanley J., and Pera. 3,033,700.
Buckman, Stanley J., and Pera. 3,060,049.
Perakis, Minas. Meat cutting devices or assemblies. 3,058,-503, 10–16–62, Cl. 146—150.
Peras, Lucien: *See*—
Bouchard, Robert G., and Peras. 3,029,618.
Peras, Lucien, to Regie Nationale des Usines Renault. Devices for the automatic handling and turning-round of articles. 3,016,155, 1–9–62, Cl. 214—147.
Péras, Lucién, to Regie Nationale des Usines Renault. Window balancing device. 3,024,489, 3–13–62, Cl. 16—200.
Péras, Lucién, to Regie Nationale des Usines Renault. Devices for driving and braking conveyor loads. 3,024,740, 3–13–62, Cl. 104—162.

Péras, Lucién, to Regie Nationale des Usines Renault. Centrifugal clutches. 3,024,886, 3–13–62, Cl. 192—105.
Péras, Lucién, to Regie Nationale des Usines Renault. Safety devices for locking from inside the doors of automobile vehicles. 3,025,091, 3–13–62, Cl. 292—139.
Peras, Lucien, to Regie Nationale des Usines Renault. Installation for automatically and selectively handling and stocking objects. 3,027,022, 3–27–62, Cl. 214—11.4.
Peras, Lucien, to Regie Nationale des Usines Renault. Disc brakes. 3,027,978, 4–3–62, Cl. 188—72.
Peras, Lucien, to Regie Nationale des Usines Renault. Automatic device for feeding workpieces to machine-tools. 3,028,020, 4–3–62, Cl. 214—1.
Peras, Lucien, to Societe des Aciers Fins de l'Est. Piece-turning devices. 3,028,021, 4–3–62, Cl. 214—1.
Peras, Lucien, to Regie Nationale des Usines Renault. Automobile hood lock. 3,029,625, 4–17–62, Cl. 70—240.
Peras, Lucien, to Renault, Regie Nationale des Usines. Apparatus for the direct analysis of spectral lines. 3,030,-854, 4–24–62, Cl. 88—14.
Peras, Lucien, to Regie Nationale des Usines Renault. Heating and atomizing device. 3,034,726, 5–15–62, Cl. 239—132.
Péras, Lucien, to Regie Nationale des Usines Renault. Automatic transmission mechanisms incorporating torque converters. 3,035,455, 5–22–62, Cl. 74—645.
Péras, Lucien, to Regie Nationale des Usines Renault. Synchromesh units. 3,035,674, 5–22–62, Cl. 192—53.
Péras, Lucien, to Regie Nationale des Usines Renault. Fuel injection nozzles for internal combustion engines. 3,035,-780, 5–22–62, Cl. 239—453.
Péras, Lucien, to Regie Nationale des Usines Renault. Refractory, dielectric, semi-conducting material, and method of preparing same. 3,036,018, 5–22–62, Cl. 252—520.
Péras, Lucien, to Regie Nationale des Usines, Renault. Fluid-tight packing which forms a spring between rings on rotating members and which is capable of driving an external member. 3,036,846, 5–29–62, Cl. 285—96.
Péras, Lucien, to Regie Nationale des Usines Renault. Plunger and rod packings. 3,037,781, 6–5–62, Cl. 277—182.
Péras, Lucien, to Regie Nationale des Usines Renault. Clutches. 3,039,578, 6–19–62, Cl. 192—107.
Péras, Lucien, to Regie Nationale des Usines Renault. Removably mounting clusters of superposed fusible patterns about a disposable central rod. 3,041,689, 7–3–62, Cl. 22—196.
Péras, Lucien, to Regie Nationale des Usines Renault. Single control of direct or automatic braking systems of the compressed air type, notably for railways. 3,042,455, 7–3–62, Cl. 303—26.
Péras, Lucien, to Regie Nationale des Usines Renault. Shock absorbers of vehicles. 3,043,404, 7–10–62, Cl. 188—88.
Péras, Lucien, to Regie Nationale des Usines Renault. Dog clutches, applicable notably to synchronizers. 3,043,414, 7–10–62, Cl. 192—114.
Péras, Lucien, to Regie Nationale des Usines Renault. Closed moulds for initially fluid materials. 3,045,284, 7–24–62, Cl. 18—34.
Péras, Lucien. Device for utilizing a Diesel engine as a vacuum generator. 3,045,434, 7–24–62, Cl. 60—60.
Péras, Lucien, to Regie Nationale des Usines Renault. Engine valve operation. 3,045,656, 7–24–62, Cl. 123—90.
Peras, Lucien, to Regie Nationale des Usines Renault. Electronic regulator for welding apparatus. 3,056,017, 9–25–62, Cl. 219—114.
Peras, Lucien, to Regie Nationales des Usines Renault. Electromagnetic synchronizers. 3,057,447, 10–9–62, Cl. 192—53.
Peras, Lucien, to Regie Nationale des Usines Renault. Automatically-controlled feed device for machines. 3,060,864, 10–30–62, Cl. 104—121.
Péras, Lucien, to Regie Nationale des Usines Renault. Regulation of free-piston machines. 3,063,621, 11–13–62, Cl. 230—56.
Péras, Lucien, to Regie Nationale des Usines Renault. Oxygenated derivatives of cellulose. 3,063,982, 11–13–62, Cl. 260—231.
Péras, Lucién, to Regie Nationale des Usines Renault. Pressure reducing devices. 3,064,670, 11–20–62, Cl. 137—116.5.
Peras, Lucien, to Regie Nationale des Usines Renault. Elastic valves for fluids under pressure. 3,065,761, 11–27–62, Cl. 137—102.
Peras, Lucien, to Regie Nationale des Usines Renault. Devices for the chemical analysis of materials by means of photocells and by the spectral method. 3,067,332, 12–4–62, Cl. 250—220.
Péras, Lucien, and M. Suisse, said Péras assor. to Regie Nationale des Usines Renault. Windscreen wipers. 3,037,-233, 6–5–62, Cl. 15—250.42.
Percival, William S., to Electric & Musical Industries Ltd. Improvements relating to reproduction arrangements for stereophonic sound systems. 3,055,980, 9–25–62, Cl. 179—1.
Percival, William S., to Electric & Musical Industries Ltd. Stereophonic sound transmission systems. 3,059,053, 10–16–62. Cl. 179—1.
Percival, William S. Stereophonic sound transmission systems. 3,067,287, 12–4–62, Cl. 179—1.
Percival, Worth H., to General Motors Corp. Submarine propulsion system. 3,062,000. 11–6–62. Cl. 60—6.
Percival, Worth H., to General Motors Corp. Heat storage device. 3,062,510. 11–6–62. Cl. 257—313.
Perdreaux, Rene, Jr., and W. G. Meschino, to United States of America, Army. Artillery fuze. 3,054,352, 9–18–62, Cl. 102—70.2.
Perdue, James D. Process for plotting digital data. 3,039,-101, 6–12–62, Cl. 346—1.
Perdue, Roy D.: *See*—
Cohn, Morris I., and Perdue. 3,039,703.
Peregrine, Edgar P., and G. Rowland, to The British Steel Piling Co. Ltd. Impulse vibrators. 3,040,591, 6–26–62, Cl. 74—61.
Perekrestenko, Alvina J. Hair washer. 3,068,491, 12–18–62, Cl. 4—159.
Perello, Ramon U.: *See*—
Ibanez, Ivan, and Perello. 3,066,199.
Pereny, Louis, E. G. Gibbs, and P. Creager, Jr., to Protective Treatments, Inc. Sterile surgical drape and method. 3,060,932, 10–30–62, Cl. 128—132.
Perez, Anthony J.: *See*—
Lower, Ralph C., and Perez. 3,044,273.
Perez, Guillermo, to Royal McBee Corp. Record feed device. 3,036,474, 5–29–62, Cl. 74—118.
Perez, Guillermo, to Royal McBee Corp. Tape feed mechanisms. 3,058,3·2. 10–16–62, Cl. 74—142.
Perfect Circle Corp.: *See*—
Brenneke, Arthur M. 3,024,029.
Brenneke, Arthur M. 3,066,943.
Teetor, Ralph R. 3,050,147.
Perfecting Service Co.: *See*—
Ferguson, George R. 3,044,574.
Shaw, Harmon L., and Frost. 3,061,337.
Perfection Automotive Products Corp.: *See*—
Osterhoudt, Harry A. 3,034,777.
Perfection Finishing Corp.: *See*—
Strayer, Donald R. 3,031,194.
Perfection Mfg. Corp.: *See*—
Gillette, Allen K., and Patterson. 3,029,786.
Perfection Mattress & Spring Co.: *See*—
Holtzclaw, Richard T. 3,041,635.
Perfection Steriliser Co. Ltd.: *See*—
Beevis, Frederick J. 3,029,616.
Beevis, Frederick J. 3,039,884.
Perfect-Line Mfg. Corp.: *See*—
Robbins, Alfred. 3,029,972.
Perfetti, Pietro, and E. Guidi, to Montecatini Società Generale per l'Industria Mineraria e Chimica. Process for the purification of maleic anhydride. 3,041,251, 6–26–62, Cl. 202—59.
Performance Measurements Co.: *See*—
Diddens, Paul A. 3,022,663.
Pergament, Marcus N. Process of making a stock feed additive. 3,051,571, 8–28–62, Cl. 99—2.
Pergande, Wilbur F., to Illinois Tool Works. Hob. 3,015,-151, 1–2–62, Cl. 29—103.
Perge, Andreas, to North American Philips Co., Inc. Arrangement in center poles for record changing phonographs. 3,046,021, 7–24–62, Cl. 274—10.
Peri, Cesare A.: *See*—
Losco, Giuseppe, and Peri. 3,024,162.
Losco, Giuseppe, and Peri. 3,032,579.
Perlard, John N., and G. W. Waldron, to The Dow Chemical Co. Method for preparing salicylic acid. 3,055,935, 9–25–62, Cl. 260—521.
Perier, Frank R., and A. Di Bella, to Acton Laboratories, Inc. Multi-turn potentiometer. 3,021,494, 2–13–62, Cl. 338—148.
Perieres, Rene, and L. Ruelle, to Pechiney, Compagnie de Produits Chimiques et Electrometallurgiques. Vaporizing apparatus for solid substances. 3,025,333, 3–13–62, Cl. 13—20.
Perilhou, Jean R.: *See*—
Brasseur, Bernard, Le Gargasson, and Perilhou. 3,046,-098
Perini, Louis A., and H. Leber, to Dairymen's League Cooperative Association, Inc. Process for making a dairy product. 3,066,027, 11–27–62, Cl. 99—60.
Perini, Louis A., and H. Leber, to Dairymen's League Cooperative Association, Inc. Process for making a dairy product. 3,066,028, 11–27–62, Cl. 99—60.
Perini, Mario, and G. Speroni, to Montecatini-Societa Generale per l'Industria Mineraria e Chimica. New pesticidal compounds and methods of making same. 3,047,459, 7–31–62, Cl. 167—22.
Perish, Peter W., to General Motors Corp. Independent front wheel suspension. 3,033,587, 5–8–62, Cl. 280—96.2.
Peritz, Stanley. Emergency alarm for swimming pools and the like. 3,054,096, 9–11–62, Cl. 340—244.
Perkey, Russell C., and R. J. Satory, to The Bendix Corp. Fluid pressure responsive control apparatus. 3,046,740, 7–31–62, Cl. 60—39.28.
Perkin-Elmer Corp., The: *See*—
Atwood, John G., and Helms. 3,026,712.
Borden, Joseph L. 3,022,124.
Brenner, Nathaniel. 3,056,277.
Coates, Vincent J. 3,052,795.
Coates, Vincent J. 3,063,043.
Coates, Vincent J., and Scott. 3,039,353.
Maurer, John A. 3,052,172.
McCarthy, Edward L. 3,062,101.
Messelt, Stephen J. 3,017,513.
Milinowski, Arthur S., Jr., McCarthy, and Fish. 3,057,258.
Scalo, Ralph F., and Stone. 3,061,869.
Schwarz, Alfred, and McCarthy. 3,052,753.

Perkin-Elmer Corp., The: *See*—Continued
Scott, Larkin B. 3,027,510.
Scott, Larkin B., and Hutchinson. 3,032,702.
Scott, Roderic M. 3,052,395.

Perkins, Albert G., to Perkins Pipe Linings, Inc. Hose and cable coupling. 3,046,938, 7–31–62, Cl. 118—506.

Perkins, Alfred J., to Perkins Pipe Linings, Inc. Apparatus for inserting lengths of tubing for a line. 3,033,231, 5–8–62, Cl. 137—561.

Perkins, Alfred J., and R. J. Szpakowski, to Perkins Pipe Linings, Inc. Booster pump for pipe lining apparatus. 3,044,407, 7–17–62, Cl. 103—87.

Perkins, Beulah: *See*—
Perkins, Starling. 3,029,608.

Perkins, Charles M., 1/10 to W. K. Price. Apparatus for gas-freeing and cleaning tankers. 3,022,792, 2–27–62, Cl. 134—168.

Perkins, Denis G.: *See*—
James, Ivanhoe J. P., and Perkins. 3,030,437.
Watson, George R., Perkins, and James. 3,017,455.

Perkins, Denis Gordon, to Electric & Musical Industries Ltd. Correcting for transmission variations in television. 3,019,-290, 1–30–62, Cl. 178—5.4.

Perkins, Donald C., to Michigan Modern Engineering Co. Receptacle. 3,039,642, 6–19–62, Cl. 220—18.

Perkins, Donald W., to General Electric Co. Full-wave modulator circuits. 3,034,074, 5–8–62, Cl. 332—2.

Perkins, Earl S., to Butler Co. Navigational position indicator system. 3,034,724, 5–15–62, Cl. 235—187.

Perkins, F., Ltd.: *See*—
Chapman, Charles W. 3,040,589.

Perkins, George H., and R. F. De Marco, to The Cyril Bath Co. Load cell and combination thereof with stretch forming machine. 3,052,118, 9–4–62, Cl. 73—141.

Perkins, George J. Merchandise display rack. 3,058,597, 10–16–62, Cl. 211—71.

Perkins, Gerald E., to Mechanical Handling Systems, Inc. Conveyor stop, release and advance mechanism. 3,020,855, 2–13–62, Cl. 104—250.

Perkins, Gilbert T.: *See*—
Pariser, Rudolph, and Perkins. 3,035,012.

Perkins, Glenn H.: *See*—
McKnight, George S., Jr., and Perkins. 3,017,827.

Perkins, Glenn H., to The Oxford Paper Co. Planographic printing plates. 3,055,295, 9–25–62, Cl. 101—149.2.

Perkins, Harley A., Jr., to Westinghouse Electric Corp. Magnetic amplifier circuit. 3,030,570, 4–17–62, Cl. 323—89.

Perkins, Harley A., Jr., to Westinghouse Electric Corp. Magnetic amplifier systems. 3,040,242, 6–19–62, Cl. 323—89.

Perkins, Jewel H., Jr.: *See*—
Zian, Eli, Entemann, Perkins, and Wheeler. 3,052,712.

Perkins, John L., and D. M. Holmberg, to United Shoe Machinery Corp. Curing type adhesives comprising polyesterpolyisocyanate reaction product, tackifying resin and mineral filler. 3,063,958, 11–13–62, Cl. 260—38.

Perkins, Kenneth: *See*—
Stanton, Edward W., and Perkins. 3,050,899.

Perkins, Kenneth C., to General Electronic Laboratories, Inc. Anti-capture signal receiving apparatus. 3,020,403, 2–6–62, Cl. 250—20.

Perkins, Laurence M., to Allen-Bradley Co. Condition responsive electrical switch mechanism. 3,036,173, 5–22–62, Cl. 200—83.

Perkins, Leonard, to A. C. Cossor Ltd. Transponder devices for use in secondary radar systems. 3,048,835, 8–7–62, Cl. 343—6.8

Perkins, Luther F. Oil gauge. Re. 25,208, 7–24–62, Cl. 73—313.

Perkins, Norwood K.: *See*—
Dodge, Ronald D., and Perkins. 3,050,170.

Perkins, Origen S., and M. R. Krueger, to Bucyrus-Erie Co. Road-rail vehicle. 3,020,858, 2–13–62, Cl. 105—215.

Perkins Pipe Linings, Inc.: *See*—
Perkins, Albert G. 3,046,938.
Perkins, Alfred J. 3,033,231.
Perkins, Alfred J., and Szpakowski. 3,044,407.
Perkins, Warren E. 3,044,136.

Perkins, Rita M.: *See*—
Reeves, Wilson A., Perkins, and Chance. 3,046,079.

Perkins, Robert G.: *See*—
Galbraith, Sidney W., Perkins, and Westfall. 3,017,935.

Perkins, Starling, 1/2 to B. Perkins. Platform for off shore drilling and supporting columns therefor, 3,029,608, 4–17–62, Cl. 61—46.5.

Perkins, Warren E., to Perkins Pipe Linings, Inc. Pipe lining apparatus. 3,044,136, 7–17–62, Cl. 25—38.

Perkins, Wilder E., to Raybestos-Manhattan, Inc. Methods of making extra-large sized flat and endless rubber belts. 3,031,364 4–24–62, Cl. 156—137.

Perkins, William, to F. N. Burt Co., Inc. Roll tape dispenser and container. 3,016,174, 1–9–62, Cl. 225—47.

Perkins, William J., to Harnischfeger Corp. Material handling apparatus. 3,029,955, 4–17–62, Cl. 212—69.

Perks, Arthur T. Disc brake. 3,048,242, 8–7–62, Cl. 188—73.

Perl, Richard L., to The Tappan Co. Built-in oven. 3,057,-341, 10–9–62, Cl. 126—198.

Perlis, David B. Fluid branch switching system. 3,018,788, 1–30–62, Cl. 137—331.

Perlis, David B., and H. Van Dorp, to Joy Mfg. Co. Gas filter construction. 3,057,137, 10–9–62, Cl. 55—303.

Perlite Products Co.: *See*—
Schaffer, Frank W. 3,032,827.

Perlman, David, to Olin Mathieson Chemical Corp. Preparation of cobalamins. 3,021,262, 2–13–62, Cl. 195—96.

Perlman, David, and L. J. Heuser, to Olin Mathieson Chemical Corp. Process for preparing 6-demethyltetracyclines. 3,028,311, 4–3–62, Cl. 195—80.

Perlman, Jacob L., and R. D. Norden, to B. T. Babbitt, Inc. Aerosol oven cleanser. 3,031,408, 4–24–62, Cl. 252—154.

Perlman, Jacob L., and R. D. Norden, to B. T. Babbitt, Inc. Aerosol oven cleanser. 3,031,409, 4–24–62, Cl. 252—158.

Perlman, Norman: *See*—
Maillot, Roger. 3,048,859.

Perlman, Raymond, and F. W. Horner, Jr., to General American Transportation Corp. Solids fluidizing vessel and gas diffuser plate and nozzle elements therefor. 3,040,438, 6–26–62, Cl. 34—57.

Perlman, Sidney H., to Temperature Engineering Corp. Infrared oven. 3,059,087, 10–16–62, Cl. 219—35.

Perlmutter, Jerome. Snow cleats for automobile tires. 3,045,-737, 7–24–62 Cl. 152—221.

Perlmutter, Samuel: *See*—
Matz, Reuven, Forgacs, and Perlmutter. 3,029,196.

Perlmutter, Samuel. Drapery hook. 3,021,552, 2–20–62, Cl. 16—87.4.

Peris, Thomas A., and D. O. Miles, to Lockheed Aircraft Corp. Stimusoidal pressure generator. 3,033,027, 5–8–62, Cl. 73—53.

Permaco S.A.: *See*—
Mohnhaupt, Dietrich F. A. 3,020,172.

Permadent Mig. Corp.: *See*—
Weinstein, Morris and A. 3,052,983.

Permagiass, Inc.: *See*—
McMaster, Harold A., and Nitschke. 3,015,910.

Permanent Filter Corp.: *See*—
Howard, Herbert H., and Smith. 3,045,826.
Howard, Herbert H., Smith, and Lubben. 3,062,377.
Howard, Herbert H., Smith, and Lubben. 3,063,888.
Lubben, Robert A. 3,033,783.
Lubben, Robert A., and Smith. 3,067,504.
Price, Harold A. 3,016,345.
Price, Harold A. 3,027,009.
Price, Harold A. 3,049,211.
Smith, Paul A. 3,049,240.

Permanent Mold Die Co., Inc.: *See*—
Korb, Karl W. 3,018,762.

Perma-Pier, Inc.: *See*—
Maretti, Louis A. 3,060,854.

Permawick Co., Inc.: *See*—
Abel, Martin L. 3,053,421.

Permex Corp.: *See*—
Howden, James W. 3,033,726.

Permuta Closures Ltd.: *See*—
Wood, Arthur G. 3,057,502.

Permutit Co. Ltd., The: *See*—
Kressman, Theodore R. E. 3,021,288.
Kressman, Theodore R. E. 3,030,318.
Tye, Frank L. 3,046,211.

Pernack, Frank, and A. B. Bassoff, to National Broach & Machine Co. Wheel trimmer. 3,067,733, 12–11–62, Cl. 125—11.

Perner, Raymond E.: *See*—
Bauer, Richard J., Haeber, Otteman, and Perner. 3,064,-735.

Pernert, John C., and S. I. Burghardt, to Hooker Chemical Corp. Chlorine dioxide separation. 3,063,218, 11–113–62, Cl. 55—71.

Pernetta, Charles, to Ametek, Inc. Spring motor. 3,047,280, 7–31–62, Cl. 267—1.

Pernetta, Charles, to Ametek, Inc. Springs. 3,047,281, 7–31–62, Cl. 267—1.

Pernhall, Bernice: *See*—
Kaplan, Rose, Pernhall, B. and W. 3,050,075.

Pernici, Domenico. Machine for manufacturing candles. 3,065,504, 11–27–62, Cl. 18—27.

Pernini, Henry M., to United States of America, Army. Hydraulic buffer. 3,034,605, 5–15–62, Cl. 188—96.

Pernot, Harold F.: *See*—
Keating, Raymond J., Orloff, and Pernot. 3,025,943.

Peropoulos, Peter C.: *See*—
Davis, Gareth J., and Peropoulos. 3,035,990.

Perotte, Laurence F.: *See*—
Clark, Robert B., and Perotte. 3,031,522.

Perpetuum-Ebner, Fabrik für Feinmechanik und Elektrotechnik Steidinger & Co. Kommanditgesellschaft: *See*—
Weise, Dominikus. 3,042,411.

Perras, Philippe: *See*—
Bo, Gilbert, Fichet, Perrot, and Perras. 3,017,401.

Perreault, George E., to Bell Telephone Laboratories, Inc. Relay. 3,015,707, 1–2–62, Cl. 200—87.

Perrella, Guido. Tape feed device. 3,050,226, 8–21–62, Cl. 226—157.

Perret, Joseph: *See*—
Cayton, Van C., Montgomery, and Perret. 3,061,652.

Perret-Bit, Roger J.: *See*—
Jouguet, Marc F. G., and Perret-Bit. 3,063,919.

Perri, Giovanni: *See*—
Marullo, Gerlando, and Perri. 3,049,233.
Marullo, Gerlando, Perri, and Tubiello. 3,059,773.

Perri, Joseph M., to E. I. du Pont de Nemours and Co. Pile fabrics and process for treating same. 2,041,707, 7–3–62, Cl. 28—80.

Perricci, Thomas G., to Martin-Marietta Corp. Rechargeable accumulator. 3,018,627, 1–30–62, Cl. 60—51.

Perrigo, John F., and R. G. Rutherford, to Lakeside Railway Fusee Co. Safety fusee cap. 3,043,220, 7–10–62, Cl. 102—37.8.

Perrin, Bernard, to Molins Machine Co. Ltd. Method of and apparatus for removing tobacco from cigarettes. 3,026,880, 3–27–62, Cl. 131—96.

Perrin, Bernard, and G. M. Horey, to Molins Machine Co. Ltd. Reconstituting tobacco. 3,053,258, 9–11–62, Cl. 131—140.

Perrin, Jack L.: *See*—
Layton, J. C., and Perrin, 3,038,598.

Perrin, Jean A., to Societe le Carbone-Lorraine. Electrode for cleaning weld seams. 3,043,946, 7–10–62, Cl. 219—146.

Perrin, Joe F. Retainer ring remover tool. 3,052,970, 9–11–62, Cl. 29—229.

Perrin, Tom S., and R. G. Banner, to Diamond Alkali Co. Production of chromic anhydride. 3,065,055, 11–20–62, Cl. 23—145.

Perrine, Paul M., to Stedman Foundry and Machine Co., Inc. Multiple cage disintegrator. 3,028,105, 4–3–62, Cl. 241—188.

Perrine, Sterling O., to The Wean Engineering Co., Inc. Deflector means for sheet handling apparatus. 3,063,713, 11–13–62, Cl. 271—69.

Perrins, Allen R., to The Superior Electric Co. Automatic voltage regulator. 3,068,395, 12–11–62, Cl. 323—45.

Perrins, Allen R., to The Superior Electric Co. Automatic voltage regulator. 3,068,396, 12–11–62, Cl. 323—66.

Perrins, Allen R., W. G. Meusel, and M. W. Liberi, to The Superior Electric Co. Voltage regulator. 3,068,397, 12–11–62, Cl. 323—66.

Perrochat, Jean, to A. Raymond. Molding fastener. 3,018,-922, 1–30–62, Cl. 24—73.

Perrochat, Jean L., to A. Raymond. Fastening device for molding. 3,020,611, 2–13–62, Cl. 24—73.

Perrochat, Jean, to A. Raymond. Molding fastener. 3,063,-114, 11–13–62, Cl. 24—73.

Perron, Roger: *See*—
Paquot, Charles, and Perron. 3,061,639.

Perron, Yvon G., and L. C. Cheney. Phthalamido penicillins. 3,035,047, 5–15–62, Cl. 260—239.1.

Perrone, Louis: *See*—
Dillon, Edward M. 3,063,180.

Perrot, André: *See*—
Bo, Gilbert, Fichet, Perrot, and Perras. 3,017,401.

Perrot, Friedrich, to Certina Kurth Freres S.A. Time-piece indicating the days of the month. 3,036,424, 5–29–62, Cl. 58—5.

Perrott, William. Shock absorbing positive drive means for marine propellers. 3,045,763, 7–24–62, Cl. 170—160.54.

Perrozzi, Joseph R., E. C. Swanson, H. L. Walker, and F. M. Y. Cheng, to The Pillsbury Co. Method of making angel food cake and premix therefor. 3,038,808, 6–12–62, Cl. 99—92.

Perruca, Felix, to Societe des Fabrications Unicum. Power transmission devices. 3,033,048, 5–8–62, Cl. 74—200.

Perrucci, Cosimo: *See*—
Karlan, Martin M., and Perrucci. 3,030,649.

Perrucci, Joseph S. Archery bows. 3,055,353, 9–25–62, Cl. 124—24.

Perry, Alwyn B.: *See*—
Seager, Donald W., and Perry. 3,061,886.

Perry, Arthur H., to George Salter & Co. Ltd. Spring cushioning devices. 3,030,097, 4–17–62, Cl. 267—1.

Perry-Briggs Co.: *See*—
Briggs, Robert F. 3,030,446.

Perry, Charles R., to Sivalls Tanks, Inc. Emulsion treating. 3,029,580, 4–17–62, Cl. 55—164.

Perry, Clarence H.: *See*—
Tebb, Bernard, and Perry. 3,044,074.
Tebb, Bernard, and Perry. 3,055,388.
Tebb, Bernard, and Perry. 3,055,626.

Perry, Daniel E., to Phillips Petroleum Co. Extrusion blowing apparatus. 3,044,112, 7–17–62, Cl. 18—5.

Perry, Edmond S., and C. W. Zuehlke, to Eastman Kodak Co. Fluonitrate catalysts for preparing linear polyester. 3,068,204, 12–11–62, Cl. 260—75.

Perry, Edward G., to Sperry Rand Corp. Photographic summation system. 3,020,800, 2–13–62, Cl. 88—24.

Perry, Edward G., Jr., and H. L. Philipson, Jr., to Sperry Rand Corp. Printing recorder and punching converter. 3,064,560, 11–20–62, Cl. 101—90.

Perry, Edward H.: *See*—
Underwood, Frank E., and Perry. 3,023,720.

Perry, Edwin L.: *See*—
Scremin, Ernest. 3,068,945.

Perry, Ell, to Monsanto Chemical Co. Polymerization method. 3,070,585, 12–25–62, Cl. 260—93.5.

Perry, Elijah R., and H. L. Peek, to Allis-Chalmers Mfg. Co. Device for lowering and raising a movable structure from or to its support. 3,021,410, 2–13–62, Cl. 200—150.

Perry, Frank, and D. W. Matchett, to The Singer Mfg. Co. Thread take-up mechanism for sewing machines. 3,028,-824, 4–10–62, Cl. 112—241.

Perry, Franklin T.: *See*—
Carroll, Robert J., and Perry. 3,049,091.

Perry, Franklin W., and J. H. Reynolds, to The National Cash Register Co. Price tag collector. 3,047,218, 7–31–62, Cl. 235—11.

Perry, George A.: *See*—
Akerboom, Jack, Melnick, and Perry. 3,038,810.
Lawrence, Robert L., and Perry. 3,022,176.
Melnick, Daniel, Perry, and Lawrence. 3,065,084.

Perry, George J. Combustion engines. 3,021,681, 2–20–62, Cl. 62—7.

Perry, Gerald H., E. W. Shallow, and G. R. Hoffman, to International Business Machines Corp. Electronic storage and switching circuits. 3,059,225, 10–16–62, Cl. 340—174.

Perry, Harold D.: *See*—
Blasberg, Lawrence A., Perry, and Saltzman. 3,022,475.

Perry, Henry J. H. Impregnation of porous metal. 3,042,-551, 7–3–62, Cl. 117—224.

Perry, James W., to Western Reserve University. Searching selector. 3,066,280, 11–27–62, Cl. 340—172.5.

Perry, Kenneth E.: *See*—
Lourie, Norman M., and Perry. 3,016,522.

Perry, Kenneth E., to Minneapolis-Honeywell Regulator Co. Information storage record and apparatus. 3,025,503, 3–13–62, Cl. 340—174.1.

Perry, Landis H.: *See*—
Adams, Arthur H., and Perry. 3,056,418.

Perry, Leland G.: *See*—
Kendall, Jackson W., Jr., Perry, and Hardenbergh. 3,023,341.

Perry, Muele, Stoma receiving appliance with sealing sleeve having enlarged attachment portion. 3,021,843, 2–20–62, Cl. 128—283.

Perry, Patrick J., and J. F. Maslow, to Flight Refueling Inc. Pipe couplings. 3,069,127, 12–18–62, Cl. 284—19.

Perry, Paul E.: *See*—
Miller, Clarence L., Jr., and Perry. 3,039,902.

Perry, Randolph, Jr.: *See*—
Clifford, Alan F., and Perry. 3,059,994.

Perry, Randolph, Jr., and K. J. Shaver, to Monsanto Chemical Co. Stabilization of sulfur trioxide. 3,065,058, 11–20–62, Cl. 23—174.

Perry, Robert H., Jr., to Esso Research and Engineering Co. Polymerization method. 3,037,009, 5–29–62, Cl. 260—89.5.

Perry, Robert H., Jr., to Esso Research and Engineering Co. Process for the conversion of a cyclic triolefin. 3,059,028, 10–16–62, Cl. 260—533.

Perry, Robert O., to Sinclair Research, Inc. Method using a reversible solid-forming material to profile a subterranean formation. 3,056,288, 10–2–62, Cl. 73—155.

Perry, Robert O., D. R. Holbert, and G. A. Zeito, to Sinclair Oil & Gas Co. Method for selectively plugging a subterranean location in a well with liquid organic resin-forming material. 3,044,548, 7–17–62, Cl. 166—33.

Perry, Robert S.: *See*—
Clinton, William P., Perry, and Pitchon. 3,039,882.

Perry, Robert W., Jr., to E. I. du Pont de Nemours and Co. Microfiber and staple fiber batt. 3,016,599, 1–16–62, Cl. 28—78

Perry, Sydney V.: *See*—
Fine, Roy S., and Perry. 3,026,373.
Fine, Roy S., and Perry. 3,026,378.

Perry, William A., to Ingersoll-Rand Co. Spark ignition control for gas engines. 3,057,938, 10–9–62, Cl. 123—149.

Perry, William F. Cathode ray screen structure. 3,048,729, 8–7–62, Cl. 313—92.

Perryman, John S., to Curtiss-Wright Corp. Oscillating servomotor. 3,048,050, 8–7–62, Cl. 74—388.

Persechino, Mario A., to United States of America, Navy. Valveless pulsejet smoke generator. 3,017,367, 1–16–62, Cl. 252—359.

Persia, Mario, to Fiat Societa per Azioni. High floored motor vehicle. 3,052,495, 9–4–62, Cl. 296—28.

Persicke, Herbert, R. Schwab, and H. Schilling, to Dunlop Tire and Rubber Corp. Upholstery structures of resilient polyurethane and method of making same. 3,026,544, 3–27–62, Cl. 5—361.

Persico, Ralph W.: *See*—
Carlucci, Michael P., and Persico. 3,015,108.

Persinger, Laverne O.: *See*—
Persinger, Merle L. and L. O. 3,016,816.
Persinger, Merle L. and L. O. 3,016,817.

Persinger, Merle L. and L. O., to Seidelhuber Steel Rolling Mill Corp. Outdoor barbecue with slanting grill. 3,016,-816, 1–16–62, Cl. 99—339.

Persinger, Merle L. and L. O., to Seidelhuber Steel Rolling Mill Corp. Indoor barbecue with slanting grill. 3,016,-817, 1–16–62, Cl. 99—339.

Person, Ernest H., to Allied Thermal Corp. Damper control mechanism for air distributing units. 3,034,725, 5–15–62, Cl. 236—13.

Personal Products Corp.: *See*—
Atkinson, Ralph L. 3,059,644.
Brecht, George. 3,015,332.
Brecht, George. 3,063,453.
Burgeni, Alfred A. 3,017,304.
Burgeni, Alfred A. 3,060,936.
Gershen, Irvin J. 3,059,641.
Gershen, Irvin J. 3,059,642.
Graham, George C., Jr. 3,055,369.
Ness, Irving S. 3,056,406.
Reading, Edward H. 3,026,726.
Roberts, Donald R., and McGuire. 3,057,354.
Schirmer, Henry G. 3,027,870.
Wilson, Louise A. 3,051,177.

Persson, Ernest, and B. Olby, to International Postal Supply Corp. Record punching and printing machine. 3,036,518, 5–29–62, Cl. 101—19.

Persson, John A., to Union Carbide Corp. Inert-gas arc rectifier. 3,064,178, 11–13–62, Cl. 321—8.

Persson, Per-Oskar: *See*—
Adams-Ray, Jack, and Persson. 3,051,180.

Persson, Per W. S. · *See*—
Nilsson, Hans R., and Persson. 3,058,723.

Persson, Per W. S., to Svenska Rotor Maskiner. Rotary device. 3,031,130, 4–24–62, Cl. 230—143.

Persson, Sten I., to General Dynamics Corp. Tube holder for ceramic button tubes. 3,027,535, 3–27–62, Cl. 339—92.

Persson, Sten I., and C. H. Reynolds, to General Dynamics Corp. Coal-rock sensing device. 3,015,477, 1–2–62, Cl. 262—27.

Pertici, Andrew L., to McGraw-Edison Co. Protectors for electric circuits. 3,042,777, 7–3–62, Cl. 200—123.

Pertrix Union Gesellschaft mit beschrankter Haftung: *See*—
Huber, Richard. 3,040,114.
Priebe, Bodo. 3,019,141.
Priebe, Bodo F. H. 3,016,414.
Schmier, Alfred. 3,069,488.

Pesarek, Walter: *See*—
Varadi, Louis E., Bourque, and Pesarek. 3,056,583.

Pescarolo, Bruno: *See*—
Bianchi, Valerio, and Pescarolo. 3,052,519.

Pescarolo, Bruno, and V. Bianchi, to Montecatini, Societa Generale per l'Industrie Mineraria e Chimica. Process for extracting tartaric acid and potassium in form of pure potassium nitrate in the cold from tartaric raw materials. 3,069,230, 12–18–62, Cl. 23—102.

Pescatello, Tufanio J., to Robertson Paper Box Co. Inc. Paper board machines. 3,035,636, 5–22–62, Cl. 162—327.

Pesch, Willem: *See*—
Koopal, Sieds, Verstrijden, Pesch, and Deumens. 3,056,-830.
Ottenheym, Johannes H., Pesch, and Verstrijden. 3,052,-670.

Pesch, Willem, and U. Verstrijden, to Stamicarbon N.V. Purification of impure α-aminolactams. 3,047,564, 7–31–62, Cl. 260—239.3.

Peschel, William F., to The Ohio Crankshaft Co. Automatic control of induction heating circuits having a magnetic load. 3,064,109, 11–13–62, Cl. 219—10.77.

Pesez, Maurice: *See*—
Velluz, Leon, Bertin, Pesez, and Berret. 3,068,071.

Peshin, John V., and D. W. Seager, to The Carter's Ink Co. Transfer paper. 3,049,457, 8–14–62, Cl. 154—46.8.

Pessel, Leopold, to Radio Corp. of America. Method and materials for obtaining low-resistance bonds to thermoelectric bodies. 3,031,516, 4–24–62, Cl. 136—5.

Pessl, Fred: *See*—
Komorowski, Clarence L., and Pessl. 3,059,960.

Pessl, Hubert J., H. L. Brandenburg, and P. J. Coleman, to Hupp Corp. Method for forming and coating parts. 3,028,-662, 4–10–62, Cl. 29—159.2.

Pessolano, Arsenio A.: *See*—
Rogers, Edward F., and Pessolano. 3,037,909.

Pesson, Marcel, and J. Salle, to R. Bellon. α-phenyl-ortho-methoxy cinnamic acid choleretic process and pharmaceutical dosage composition. 3,034,961, 5–15–62, Cl. 167—65.

Pestaner, James F.: *See*—
Gevantman, Lewis H., and Pestaner. 3,031,575.

Pester, Alfred K.: *See*—
Hartley, Robert A., Pester, and Hayes. 3,069,279.

Pester, W Bruce, to Sylvania Electric Products Inc. Projector. 3,049,971, 8–21–62, Cl. 88—26.

Pester, W. Bruce, to Argus Inc. Projector. 3,067,650, 12–11–62, Cl. 88—28.

Pestronk, Arnold, to The Seamless Rubber Co. Underwater propulsion apparatus. 3,034,467, 5–15–62, Cl. 114—16.

Pestronk, Saul M.: *See*—
Mauro, Eugene, and Pestronk. 3,042,927.

Pet Kitchens, Inc.: *See*—
Marvin, John, and Anderson. 3,017,273.

Peter, Albin: *See*—
Hemmi, Hans M., and Peter. 3,043,648.
Hofer, Kurt, Hemmi, Peter, and Lutz. 3,033,640.

Peter, Helmut: *See*—
Schrenk, Gotthilf, Peter, and Wiener. 3,054,928.

Peter, Julius: *See*—
Müller, Erwin, Bayer, and Peter. 3,044,991.
Schmidt, Karl-Ludwig, Müller, Bayer, Genski, and Peter. 3,036,042.

Peter, Julius, W. Heidemann, K. Ellegast, and R. Juffa, to Farbenfabriken Bayer Aktiengesellschaft. Test for determining optimum vulcanization. 3,039,297, 6–19–62, Cl. 73—88.

Peter, Robert G., and C. M. Kucera, to Reed Roller Bit Co. Rock bit guide. 3,018,836, 1–30–62, Cl. 175—408.

Peter, Rolf W., to Radio Corp. of America. Radar with traveling-wave tube duplexer. 3,068,414, 12–11–62, Cl. 325—23.

Petering, Wilbur H., and W. A. Callahan, to Detrex Chemical Industries, Inc. Composition and method of inhibiting corrosion of ferrous metals by amine-stabilized unsaturated chlorinated hydrocarbons. 3,031,410, 4–24–62, Cl. 252—171.

Petering, Wilbur H., and W. A. Callahan, to Detrex Chemical Industries, Inc. Composition and method of inhibiting corrosion of ferrous metals by amine-stabilized unsaturated chlorinated hydrocarbons (using oximes). 3,031,413, 4–24–62, Cl. 252—171.

Petering, Wilbur H., and W. A. Callahan, to Detrex Chemical Industries, Inc. Composition and method of inhibiting corrosion of ferrous metals by amine-stabilized chlorinated hydrocarbons (using polyhydroxy benzenes). 3,031,412, 4–24–62, Cl. 252—171.

Peterka, Henri. Fixing means for fixing objects to a wall. 3,049,323, 8–14–62, Cl. 248—28.

Peterman, Lloyd E.: *See*—
Burket, Robert E., Coy, and Peterman. 3,024,141.

Peterman, Milton J., and K. D. Miller, to North American Aviation, Inc. Tool and display box. 3,017,023, 1–16–62, Cl. 206—65.

Peters, Alfred H. Conduit molding form. 3,020,615, 2–13–62, Cl. 25—128.

Peters, Anthony E. Shear control system for multi-line continuous rod mills. 3,020,788, 2–13–62, Cl. 80—35.

Peters, Arthur C., to United-Carr Fastener Corp. Stand-off socket. 3,034,086, 5–8–62, Cl. 339—17.

Peters, Beldon A.: *See*—
Buck, Henry M., and Peters. 3,055,428.

Peters, Beldon A., and E. Rich, to Jersey Production Research Co. Well fluid sampler. 3,047,072, 7–31–62, Cl. 166—164.

Peters, Charles J., to Sylvania Electric Products Inc. Switching circuit. 3,056,906, 10–2–62, Cl. 317—123.

Peters, Claude H. Electric heater control. 3,052,788, 9–4–62, Cl. 9—20.

Peters, Clifford M.: *See*—
Brown, Norman F., Peters, and Dinning. 3,039,394.
Garrett, Henry U., and Peters. 3,050,121.
Garrett, Henry U., Peters, and Dinning. 3,045,759

Peters, Clifford M., to U.S. Industries, Inc. Pressure controller. 3,043,331, 7–10–62, Cl. 137—458.

Peters, Clifford M., and V. B. Scott, to U.S. Industries, Inc. Valves. 3,044,492, 7–17–62, Cl. 137—625.25.

Peters, Clifford M., R. W. Dinning, and N. F. Brown, to U.S. Industries, Inc. Control systems. 3,045,750, 7–24–62, Cl. 166—52.

Peters Co., The: *See*—
Colt, Victor L., and Willock. 3,064,745.
Willock, Charles B. 3,067,831.

Peters, Edwin F., and B. L. Evering, to Standard Oil Co. Polymerization process and catalysts. 3,033,844, 5–8–62, Cl. 200—93.7.

Peters, Emil H., to Westinghouse Electric Corp. Field winding continuity check circuits. 3,018,428, 1–23–62, Cl. 318—176.

Peters, Freimut, to Accumulatoren-Fabrik A.G. Hermetically sealed galvanic smoothing or stabilization cell. 3,023,258, 2–27–62, Cl. 136—6.

Peters, Freimut, to Accumulatoren-Fabrik A.G. Permanently sealed gas-tight accumulator. 3,031,517, 4–24–62, Cl. 136—6.

Peters, G. D., & Co., Ltd. *See*—
Stanton, Henry L. 3,067,993.

Peters, George. Combination comb and hair cutting device. 3,029,509, 4–17–62, Cl. 30—30.

Peters, George W.: *See*—
Heintz, William D., and Peters. 3,031,759.

Peters, Heinrich, D. Schleede, H. Jochinke, and H. Klug, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Brüning. Flameproofing olefin polymers. 3,025,-262, 3–13–62, Cl. 260—45.75.

Peters, Henry: *See*—
Krawetzke, Elmer J., and Peters. 3,025,638.
Lockwood, William H., and Peters. 3,040,386.

Peters, Homer D. F., to Libbey-Owens-Ford Glass Co. Device for testing the density of coatings on support bodies. 3,028,783, 4–10–62, Cl. 88—14.

Peters, James R., to Plastics Development Corp. Self-watering flower pot. 3,043,053, 7–10–62, Cl. 47—38.

Peters, John. Foot and leg apparel article. 3,017,705, 1–23–62, Cl. 36—7.3.

Peters, John A. Cow tail guard. 3,035,546, 5–22–62, Cl. 119—105.

Peters, John G.: *See*—
Canetto, Troy L., Fisher, and Peters. 3,029 203.
Gottshall, Ralph I., Peters, and Swain. 3,035,908.

Peters, John I., to E. I. du Pont de Nemours and Co. Recovering lead from by-product lead materials. 3,052,535, 9–4–62, Cl. 75—77.

Peters, Leo. Apparatus for forming containers equipped with a reversible pocket of thermoplastic film. 3,033,737, 5–8–62, Cl. 154—1.8.

Peters, Leo. Container manipulating apparatus. 3,064,543, 11–20–62. Cl. 93—33.

Peters, Lowell E. Pivoted sash type window. 3,055,063, 9–25–62, Cl. 20—42.

Peters, Lowell E., and R. E. Harris. Pivoted sash type window. 3,055,062, 9–25–62, Cl. 20—42.

Peters, Lynn R.: *See*—
Leonard, Nelson J., and Peters. 3,027,380.

Peters Machinery Co.: *See*—
Bahr, George K., and Rose. 3,056,337.

Peters, Max D: *See*—
Keyt, Ferris G., and Peters. 3,027,878.

Peters, Melville F., 50% to J. J. Mascuch. System for measuring height and density of liquids. 3,038,336, 6–12–62, Cl. 73—299.

Peters, Melville F. Flexible fluid coupling and sound attenuating assemblies. 3,038 553, 6–12–62, Cl. 181—59.

Peters, Melville F., 50% to J. J. Mascuch. Fluid line sound-absorbing structures. 3,061,039, 10–30–62, Cl. 181—42.

Peters, Norman K.: *See*—
Hegg, Billy S., and Peters. 3,031,840.

Peters, Otto: *See*—
Hagenah, Klaus, and Peters. 3,028,865.
Koch, Hans, and Peters. 3,055,374.
Peters, Otto, to Kurt Korber & Co. K.G. Device for loosening and distributing of tobacco or the like material. 3,016,906, 1–16–62, Cl. 131—108.
Peters, Philip H., Jr.: *See*—
Wilbur, Donald A., and Peters. 3,039,019.
Peters, Philip H., Jr., and D. A. Wilbur, to United States of America, Army. Noise generating circuit. 3,025,475, 3–13–62, Cl. 331—78.
Peters, Philip H., Jr., and D. A. Wilbur, to General Electric Co. Crossed field thermionic converter. 3,041,481, 6–26–62, Cl. 310—4.
Peters, Plenny M. Scaffold hanger and support device. 3,021,919, 2–20–62, Cl. 182—150.
Peters, Robert D. Paper bag dispenser. 3,028,046, 4–3–62, Cl. 221—34.
Peters, Robert W.: *See*—
Caldwell, John, Peters, and Watson. 3,060,692.
Peters, Rudolph W. Trailer hitch. 3,049,366, 8–14–62, Cl. 280—512.
Peters & Russell, Inc.: *See*—
Russell, Linus E. 3,040,776.
Russell, Linus E. 3,070,029.
Peters, Theodore F., to General Motors Corp. Fluid actuated pump. 3,056,353, 10–2–62, Cl. 103—51.
Peters, Theodore J., and J. F. Collins, to Esso Research and Engineering Co. Process for treating complex esters to improve viscosity stability. 3,047,504, 7–31–62, Cl. 252—56.
Peters, William H., and V. C. Sterrett. Automatic boat drain. 3,060,882, 10–30–62, Cl. 114—185.
Peters, William W.: *See*—
Aydelott, John C., and Peters. 3,067,817.
Petersen, Alfred H., to General Electric Co. Dispenser for clothes washing machine. 3,033,427, 5–8–62, Cl. 222—505.
Petersen, Alfred H., to General Electric Co. Clutch mechanism. 3,050,966, 8–28–62, Cl. 64—30.
Petersen, Arnold C.: *See*—
Baudhuin, George J., and Petersen. Re. 25,280.
Baudhuin, George J., and Petersen. 3,028,925.
Petersen, Axel L. Roller and wrist pin construction for rotary engines. 3,068,709, 12–18–62, Cl. 74—57.
Petersen, Charles J. Buffing wheel. 3,026,654, 3–27–62, Cl. 51—193.
Petersen, Clifford W., to McGraw-Edison Co. Brace assembly. 3,070,194, 12–25–62, Cl. 189—33.
Petersen, Gerald A. Screw anchor. 3,016,117, 1–9–62, Cl. 159—91.
Petersen, Gerald A. M. Reversible tooth having resilient retaining means. 3,057,091, 10–9–62, Cl. 37—142.
Petersen, Gerald A. M. Reversible tooth for earth digging equipment. 3,063,175, 11–13–62, Cl. 37—142.
Petersen, Harold E.: *See*—
McDermid, William L., Petersen, and Shelton. 3,036,775.
Petersen, Heinz, and H. Sach, to F. Schichau A.-G. Torch height control. 3,032,328, 5–1–62, Cl. 266—23.
Petersen, Henry T. Valve-traversing pipe stopper assembly. 3,022,801, 2–27–62, Cl. 138—89.
Petersen, K. T., to Dano Ingenlorforretning og Maskinfabrik Ingenior Kai Petersen's Fond. Apparatus for the fermentation of solid organic waste materials for making compost. 3,055,744, 9–25–62, Cl. 23—259.1.
Petersen, Ludvig, to General Motors Corp. Automobile speed control. 3,068,953, 12–18–62, Cl. 180—82.1.
Petersen, Maurice E., and J. J. Broderick, to General Electric Co. Arrangement for cooling coil end turns. 3,043,969, 7–10–62, Cl. 310—64.
Petersen, Norman L., to C. E. Borck. Dough twister. 3,028,-821, 4–10–62, Cl. 107—9.
Petersen, Poul A. S., to Chr. Olsen Akts. (Corp.) Writing instrument. 3,060,607, 10–30–62, Cl. 40—334.
Petersen, Raymond C.: *See*—
Ross, Sidney D., Petersen, and Finkelstein. 3,052,829.
Petersen, Robert E. Cable and conduit puller. 3,038,754, 6–12–62, Cl. 294—94.
Petersen, Siegfried: *See*—
Gauss, Walter, and Petersen. 3,037,995.
Gauss, Walter, and Petersen. 3,047,625.
Kounack, Gerhard, Schellhammer, Petersen, and König. 3,039,925.
Schellhammer, Carl-Wolfgang, Petersen, and Domagk. 3,069,430.
Wolf, Walther, Rosch, Degener, Klappert, and Petersen. 3,058,991.
Petersen, Thorvald K., to Douglas Aircraft Co., Inc. Air film supported load carrier. 3,052,483, 9–4–62, Cl. 280—28.5.
Petersen, Vernon B. Baby food carrier. 3,025,998, 3–20–62, Cl. 220—102.
Petersen, William. Adhesive applicator with squeeze bottle holder. 3,027,591, 4–3–62, Cl. 15—541.
Peterson, Adolphe C. High or low compression injection fuel system. 3,042,015, 7–3–62, Cl. 123—119.
Peterson, Albert C., to Union Special Machine Co. Material handling apparatus. 3,063,574, 11–13–62, Cl. 214—1.
Peterson, Albert L.: *See*—
Campbell, Leonard, and Peterson. 3,039,714.
Peterson Albert L., to Wood Newspaper Machinery Corp. Web tensioning device. 3,061,227, 10–30–62, Cl. 242—75.42.
Peterson, Albin K., to L. J. Peterson. Apparatus for separating materials. 3,070,230, 12–25–62, Cl. 209—310.
Peterson, Alge T., Jr.: *See*—
Potter, Omer R., and Peterson. 3,049,083.
Peterson, Allen R., to Weltronic Co. Welding apparatus. 3,056,018, 9–25–62, Cl. 219—130.
Peterson, Axel H. Core blowing machines. 3,023,467, 3–6–62, Cl. 22—10.
Peterson, Ben B.: *See*—
Buell, Roy D., Jr., and Peterson. 3,066,641.
Peterson, Benjamin R., Jr.: *See*—
Cummings, Thomas N., Peterson, and Shiu. 3,041,802.
Cummings, Thomas N., Peterson, and Shiu. 3,042,225.
Peterson, Bertil E., to Cardwell Westinghouse Co. Rubber draft gear. 3,025,974, 3–20–62, Cl. 213—40.
Peterson, Bob L.: *See*—
Peterson, Earl R. and B. L. 3,028,275.
Peterson, Carl. Roll feed mechanism. 3,058,641, 10–10–62, Cl. 226—140.
Peterson, Carl. Roller feed drive mechanism. 3,067,918, 12–11–62, Cl. 226—152.
Peterson, Carl D., to Engelhard Industries, Inc. Collector ring assembly. 3,038,138, 6–5–62, Cl. 339—5.
Peterson, Carl G., Co.: *See*—
Skeen, Gary R. 3,067,999.
Peterson, Carl L., to Sylvania Electric Products Inc. Lamp and holder assembly. 3,064,157, 11–13–62, Cl. 313—318.
Peterson, Charles E., to Radic Corp. of America. Limiter circuit. 3,028,557, 4–3–62, Cl. 328—171.
Peterson, Charles J., to United Aircraft Corp. Vane mounting and seal. 3,062,499, 11–6–62, Cl. 253—78.
Peterson, Charles W. View finders for cameras. 3,035,501, 5–22–62, Cl. 95—44.
Peterson, Chester H., to U.S. Rubber Reclaiming Co., Inc. Rubber reclaiming apparatus. 3,051,990, 9–4–62, Cl. 18—14.
Peterson, David T., and J. Rexer, to United States of America, Atomic Energy Commission. Self-moderating fertile compounds. 3,044,847, 7–17–62, Cl. 23—14.5.
Peterson, De Wayne B.: *See*—
Manz, August F., Hopkins, and Peterson. 3,054,884.
Peterson, Dolan N. Vehicle dumping body. 3,053,574, 9–11–62, Cl. 298—23.
Peterson, Dorothy B. Slipper sole. 3,067,532, 12–11–62, Cl. 36—9.
Peterson, Earl A., E. E. Tarika, and N. T. Rossen, to Union Carbide Corp. Method and apparatus for drying regenerated cellulose tubing. 3,041,736, 7–3–62, Cl. 34—12.
Peterson, Earl R., and B. L. Post forming press. 3,028,275, 4–3–62, Cl. 156—486.
Peterson, Edward C., to Birdsboro Corp. Kick-off control device. 3,058,375, 10–16–62, Cl. 80—48.
Peterson, Edward C., and W. C. Updegrave, to Birdsboro Corp. Ingot stripper. 3,052,935, 9–11–62, Cl. 22—95.
Peterson, Edward S., to Automatic Electric Laboratories, Inc. Residential or farm intercom telephone system. 3,055,985, 9–25–62, Cl. 179—40.
Peterson, Edward T., to Birdsboro Corp. Bar separator. 3,051,293, 8–28–62, Cl. 198—34.
Peterson, Edwin F. Epicyclic vibrator. 3,036,471, 5–29–62, Cl. 74—87.
Peterson, Edwin F. Rotary device with access port. 3,036,-527, 5–29–62, Cl. 103—136.
Peterson, Edwin F. Drive and lubricating system for vibrators and the like. 3,036,658, 5–29–62, Cl. 184—6.
Peterson, Edwin F. Plunger-container and mixer means. 3,036,819, 5–29–62, Cl. 259—23.
Peterson, Edwin F. Air cooled motor vibrator. 3,047,752, 7–31–62, Cl. 310—81.
Peterson, Elmer J.: *See*—
Kotz, Arthur R., Appeldorn, Grieshaber, Peterson, and Giorgini. 3,056,904.
Peterson, Eugene W.: *See*—
Hayball, George D., Peterson, and Johnson. 3,052,861.
Peterson, Frank C., to Amo Placer Mines, Inc. Bucket type mechanical mole. 3,035,821, 5–22–62, Cl. 262—5.
Peterson, Fritz W.: *See*—
Frank, Sidney M., Peterson, and Pfeiffer. 3,053,914.
Peterson, George E., to Simplex Wire and Cable Co. Buoyant cable bight puller. 3,032,320, 5–1–62, Cl. 254—134.3.
Peterson, Glen, to Well Surveys, Inc. Method of and apparatus for producing and transmitting borehole signals. 3,019,414, 1–30–62, Cl. 340—18.
Peterson, Glen. Means of anchoring transformer leads. 3,041,564, 6–26–62, Cl. 336—192.
Peterson, Glen, and G. V. Fowlkes. Means for retaining wire in and releasing wire from a toroidal coil winding ring. 3,058,680. 10–16–62, Cl. 242—4.
Peterson, Gordon W. Automatic desk for the disabled. 3,048,-461, 8–7–62, Cl. 312—196.
Peterson, Gudmundur P., to Canadian Pratt & Whitney Aircraft Co. Ltd. Fuel supply system with pressure balanced accumulator to control fuel surges. 3,017,922, 1–23–62, Cl. 158—36.3.
Peterson, Gustaf J., to Mattison Machine Works. Control mechanism for grinding machines. 3,039,237, 6–19–62, Cl. 51—100.
Peterson, Gustav: *See*—
Kaveny, John G., and Peterson. 3,037,328.
Peterson, Harold R.: *See*—
Welsh, Jay Y., Milberg, and Peterson. 3,018,233.

Peterson, Henry : *See*—
Manne, Moe, and Peterson. 3,017,754.
Peterson, Herbert E. : *See*—
Babcock, Scott R., and Peterson. 3,042,786.
Peterson, Herbert L. Simultaneous hybrid digital-analog multiplier. 3,065,423, 11–20–62, Cl. 235—150.
Peterson, Janet B. : *See*—
Spivack, John D., Peterson, and Kroll. 3,027,405.
Peterson, John J. : *See*—
Linke, Karl R., Peterson, and Ridley. 3,067,742.
Peterson, Kenneth R., to Deere & Co. Material-handling apparatus. 3,045,804, 7–24–62, Cl. 198—64.
Peterson, Lawrence W., to Gardner Mfg. Co. Escapement for can dispensers and the like. 3,036,735, 5–29–62, Cl. 222—289.
Peterson, Le Roy L., to Kimberly-Clark Corp. Cellulosic product and method for making same. 3,044,228, 7–17–62, Cl. 53—24.
Peterson, Lorenz A., to Sinclair Oil & Gas Co. Shadow box. 3,023,304, 2–27–62, Cl. 240—1.
Peterson, Lottie J. : *See*—
Peterson, Albin K. 3,070,230.
Peterson, Marian R. Window washing system. 3,019,801, 2–6–62, Cl. 134—94.
Peterson, Marie G. : *See*—
Peterson, Ruben O. 3,043,064.
Peterson, Merle H. : *See*—
Kleman, Herman G., Wathen, and Peterson. 3,038,419.
Peterson, Neal D. : *See*—
Cressey, John R., Peterson, Nazareth, and Lawler. 3,051,-932.
Cressey, John R., Peterson, Nazareth, and Lawler. 3,051,-933.
Peterson, Norman E., to Stelma, Inc. Communications monitoring system. 3,025,349, 3–13–62, Cl. 178—69.
Peterson, Norman E., to Stelma, Inc. Telegraph test set. 3,057,958, 10–9–62, Cl. 178—69.
Peterson, Norman L. : *See*—
Greening, Donald J., Peterson, and Smith. 3,026,464.
Peterson, Norman L., and C. E. Smith, to Cutler-Hammer, Inc. Voltage control system. 3,047,729, 7–31–62, Cl. 307—18.
Peterson, Norman R., to The Dow Chemical Co. Product and method for production of articles having compound curves. 3,042,562, 7–3–62, Cl. 154—43.
Peterson, Oscar. Elevating scaffold. 3,065,819, 11–27–62, Cl. 182—63.
Peterson, Oscar A., to Scientific Design Co. Inc. Catalyst retainer. 3,034,869, 5–15–62, Cl. 23—288.
Peterson, Otto W. Bowtie. 3,034,134, 5–15–62, Cl. 2—151.
Peterson Oven Co., The : *See*—
Wittenberger, Wallace W. 3,018,872.
Peterson, Peter A. Children's playthings. 3,043,050, 7–10–62, Cl. 46—42.
Peterson, Raymond A., to United Geophysical Corp. Wave transmission system. 3,045,207, 7–17–62, Cl. 340—15.
Peterson, Raymond A., and F. B. Coker, to United Electrodynamics, Inc. Analysis system. 3,051,897, 8–28–62, Cl. 324—77.
Peterson, Richard H. Electronic musical instruments. 3,026,756, 3–27–62, Cl. 84—1.01.
Peterson, Richard H. Electrically interconnected network. 3,027,418, 3–27–62, Cl. 174—72.
Peterson, Richard H. Electronic organ. 3,038,365, 6–12–62, Cl. 84—1.26.
Peterson, Richard W. Mining apparatus having tubular digging tool. 3,032,325, 5–1–62, Cl. 262—5.
Peterson, Robert A., and G. T. Cohron, to Caterpillar Tractor Co. Apron arrangement for earthmoving scrapers. 3,035,-361, 5–22–62, Cl. 37—129.
Peterson, Robert E. Filler apparatus for gas lighter. 3,039,-499, 6–19–62, Cl. 141—18.
Peterson, Robert E. Fluid leakage seal for electric cables. 3,055,972, 9–25–62, Cl. 174—151.
Peterson, Robert G. : *See*—
Pedersen, Arne V., Peterson, and Hilgoe. 3,057,268.
Zimmer, William G., Peterson, Loew, and Tyma. 3,067,675.
Peterson, Robert H., to Robert H. Peterson Co. Artificial log fire burner. 3,042,109, 7–3–62, Cl. 158—113.
Peterson, Robert H., Co. : *See*—
Peterson, Robert H. 3,042,109.
Peterson, Robert M. : *See*—
Hough, Frank G., Peterson, and Gilson. 3,047,170.
Peterson, Rodney E. : *See*—
Henke, Alfred M., and Peterson. 3,046,218.
Peterson, Rolf E. : *See*—
Kiehn, Robert M., King, Peterson, and Swickard. 3,041,-263.
Peterson, Ruben O. : *See*—
Bongiovanni, John C., and Peterson. 3,056,986.
Peterson, Ruben O., to The Osborn Mfg. Co. Brush material and brush. 3,016,554, 1–16–62, Cl. 15—159.
Peterson, Ruben O., to The Osborn Mfg. Co. Brushing method and apparatus. 3,026,219, 3–20–62, Cl. 134—9.
Peterson, Ruben O., to The Osborn Mfg. Co. Reciprocating surface-finishing mechanism and method. 3,040,608, 6–26–62, Cl. 83—168.
Peterson, Ruben O., to The Osborn Mfg. Co. Rotary tool. 3,043,063, 7–10–62, Cl. 51—193.
Peterson, Ruben O., deceased, by M. G. Peterson, executrix, to The Osborn Mfg. Co. Rotary abrading tool. 3,043,064, 7–10–62, Cl. 51—193.
Peterson, Ruben O., to The Osborn Mfg. Co. Belt brush manufacture. 3,065,481, 11–27–62, Cl. 15—183.
Peterson, Ruben O., to The Osborn Mfg. Co. Twisted tuft rotary brush. 3,068,504, 12–18–62, Cl. 15—198.
Peterson, Seymour, to Storm Industries, Inc. Egg nest. 3,027,871, 4–3–62, Cl. 119—45.
Peterson, Seymour, to Storm Industries, Inc. Egg collecting device. 3,042,184, 7–3–62, Cl. 198—131.
Peterson, Stig F. A. : *See*—
Liedberg, Kurt H., and Peterson. 3,069,776.
Peterson, Thomas D., to Burroughs Corp. Indicator tube. 3,067,354, 12–4–62, Cl. 313—210.
Peterson, Thomas F., to Preformed Line Products Co. Support for armored cables. 3,026,077, 3–20–62, Cl. 248—63.
Peterson, Thomas F. Strainer tube having envelope of plural helically preformed elements. 3,028,971, 4–10–62, Cl. 210—484.
Peterson, Thomas F., to Preformed Line Products Co. Helically-preformed splices and method of splicing. 3,032,-964, 5–8–62, Cl. 57—145.
Peterson, Vernon E., to Northern Ordnance, Inc. Axis and ellipse computer. 3,030,011, 4–17–62, Cl. 235—61.
Peterson, Victor H. and V. H., Jr. Vise. 3,020,041, 2–6–62, Cl. 269—135.
Peterson, Victor H., Jr. : *See*—
Peterson, Victor H. and V. H., Jr. 3,020,041.
Peterson, Victor S. : *See*—
Rascati, Salvatore A., and Peterson. 3,021,419.
Peterson, Walter G., and E. Cadwallader, 1/4 to Gadget-of-The-Month Club, Inc. Device for attracting wild geese and ducks. 3,016,647, 1–16–62, Cl. 43—3.
Peterson, Walter H., to Shell Oil Co. Clay grease compositions. 3,050,463, 8–21–62, Cl. 252—28.
Peterson, Walter H., and P. K. Freeman, to Shell Oil Co. Organometallic derivatives of acid clays. 3,067,223, 12–4–62, Cl. 260—429.
Peterson, Warren S. : *See*—
Lowry, John W., Peterson, and Foster. 3,043,678.
Peterson, William D., to Motorola, Inc. Electronic time discriminator. 3,056,083, 9–25–62, Cl. 324—68.
Peterson, William H., to Pullman Inc. Long travel hydraulic cushion device. 3,035,714, 5–22–62, Cl. 213—43.
Peterson, William H., to Pullman, Inc. Long travel hydraulic cushion device. 3,035,827, 5–22–62, Cl. 267—34.
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Peterson, York. Self cooling blast pad. 3,055,176, 9–25–62, Cl. 60—39.09.
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Elliott, Bernard J., and Petherbridge. 3,060,438.
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Pethybridge, Charles A., to The New Britain Machine Co. Heat-treating device. 3,026,101, 3–20–62, Cl. 266—4.
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Petin, Jean, to J. J. Carnaud et Forges de Basse-Indre, Etablissements. Apparatus for the displacement of objects, especially for series treatments. 3,032,171, 5–1–62, Cl. 198—159.
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Bonnet, Georges, and Petit. 3,064,967.
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Petkus, John J., and J. F. Wygant, to Standard Oil Co. Temporary oxidation-preventive coating for metal. 3,048,495, 8–7–62, Cl. 117—6.
Peto, Fernand, and M. L. J. Girard, to Nobel-Bozel. Process for the preparation of salts of trichloracetic acid. 3,043,-873, 7–10–62, Cl. 260—539.
Petracek, Francis J., and M. D. Draper, to Riker Laboratories, Inc. Process for producing polysulfuric acid esters of polysaccharides. 3,017,407, 1–16–62, Cl. 260—234.

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Petragalla, Louis : *See*—
Dawes, Herbert G. 3,065,564.

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Petre, Philip C. : *See*—
Feldmann, Fritz, Gehlhaar, Herrmann, and Petre. 3,067,682.

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Monsees, Claude E., and Petrea. 3,023,823.

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Warfield, Robert W., and Petree. 3,049,410.

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Petrick, Russell E. : *See*—
Petrick, Edward J. and R. E. 3,022,816.

Petrick, William R., and L. R. Travis, to Westinghouse Electric Corp. Television receiver tuning apparatus. 3,018,326, 1–23–62, Cl. 178—5.8.

Petrie, Douglas P. R., and S. E. Hunt, to Metropolitan-Vickers Electrical Co. Ltd. Charged particle accelerators. 3,036,233, 5–22–62, Cl. 313—83.

Petrie, Eugene C. : *See*—
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Wright, Jay L., and Petrie. 3,060,832.

Petrie, James A. : *See*—
Bracey, Kenneth E. G., and Petrie. 3,049,880.

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Miller, Alfred L., Robison, and Petro. 3,022,260.

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Petroleum Mortgage Co. : *See*—
Alcorn, Irwin W., Graham, and Christenson. 3,054,267.

Petroliere de Gerance (Sopeg), Societe : *See*—
Poullalion, Paul, and Storm. 3,070,129.

Petrolite Corp. : *See*—
Boaz, William M., and Lissant. 3,069,307.
De Groote, Melvin. 3,038,881.
De Groote, Melvin. 3,057,890.
De Groote, Melvin. 3,057,891.
De Groote, Melvin. 3,057,892.
De Groote, Melvin, and Cheng. 3,049,492.
De Groote, Melvin, and Cheng. 3,065,247.
De Groote, Melvin, and Cheng. 3,066,159.
De Groote, Melvin, and Shen. 3,056,498.
De Groote, Melvin, and Shen. 3,060,210.
Godar, Richard L., and Stromberg. 3,030,197.
Hughes, William B. 3,024,236.
Hughes, William B. 3,039,959.
Hughes, William B. 3,042,609.
Hughes, William B., and Stromberg. 3,017,352.
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Hughes, William B., and Stromberg. 3,018,246
Hughes, William B., and Stromberg. 3,020,276.
Lissant, Kenneth J. 3,069,306.
Lissant, Kenneth J. 3,069,308.
Shen, Kwan-Ting. 3,015,622.
Stromberg, Verner L. 3,037,051.
Stromberg, Verner L. 3,056,832.

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Petropoulos, John C., to American Cyanamid Co. Purification of crude alkylidene bis-(benzoic acids) by solvent extraction. 3,021,362, 2–13–62, Cl. 260—525.

Petropoulos, John C., and H. F. Lederle, to American Cyanamid Co. Purification of bis-(carboxyphenyl)-alkanes by permanganate oxidation. 3,021,363, 2–13–62, Cl. 260—225.

Petropoulos, Michael C. : *See*—
Laakso, Thomas M., and Petropoulos. 3,038,880.

Petro-Tex Chemical Corp. : *See*—
Brill, William F. 3,050,561.
Etherington, Robert W., Jr. 3,029,288.
Etherington, Robert W., Jr., and Wolf. 3,031,508.
Herndon, John W., and Welch. 3,070,641.
Kerr, Ralph O., and Etherington. 3,038,942.
Woerner, Rudolph C. 3,026,253.

Petrow, Henry G. : *See*—
Allen, Robert J., and Petrow. 3,023,078.

Petrow, Vladimir : *See*—
Barton, Suzanne P., Ellis, and Petrow. 3,070,613.
Burn, Derek, Kirk, Petrow, and Weston. 3,023,206.
Ellis, Bernard, Hill, Petrow, and Williamson. 3,062,844.
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Waddington-Feather, Sheila M. (nee Booker), Ellis, and Petrow. 3,021,345.

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Petschek, Harry E. : *See*—
Fishman, Frank N. J., Janes, Kantrowitz, and Petschek. 3,035,206.

Pettebone, Russell H. : *See*—
Siegel, Sheldon, Pettebone, and Hanus. 3,070,503.
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Petterson, Birger F., and J. S. Lomax, to United Aircraft Corp. Weight system using flotation to eliminate tare. 3,068,683, 12–18–62, Cl. 73—3.

Petterson, Carl : *See*—
Hansson, Hugo, Petterson, and Angeid. 3,068,458.

Petterson, Lowell L. : *See*—
Brotherton, Robert J., and Petterson. 3,024,279.
Brotherton, Robert J., and Petterson. 3,048,632.
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Steinberg, Howard, Hunter, Pickard, and Petterson. 3,048,614

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Petterson, Tor, to United Aircraft Corp. Ballot marker 3,045,593. 7–24–62, Cl. 101—368.

Pettibone Mulliken Corp. : *See*—
Albert, William E., and Brown. 3,024,933.
Conway, Robert D., and Hanse. 3,028,957.
Hunter, William A. 3,061,899.
Hunter, William A. 3,062,388.
Hunter, William A. 3,062,389.
Lado, Anthony L. 3,016,636.
Wood, Everett N., and Viñan. 3,055,501.

Pettibone, Raymond B., to Vickers Inc. Pressure responsive valve. 3,042,075, 7–3–62, Cl. 137—539.

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Pettis, Arthur A : *See*—
Keskkula, Henno, and Pettis. 3,042,654.

Pettit, Arch P. : *See*—
Kerr Elmer L., Cope, and Pettit. 3,053,969.

Pettit, Dorn L : *See*—
Anger, Ernest G., and Pettit. 3,050,670.

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Pettit, Frank. Releasing means for rolled tissue dispensing devices. 3,037,718, 6–5–62, Cl. 242—55.53.

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Stelnert, Emil F., Rebuffoni, Pettit, and Cossaboom. 3,058,031.

Pettit, Richard R.: *See*—
John, Paul C., and Pettit. 3,022,870.

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Petty, John L., to The Sherwin-Williams Co. Multicolor coating composition and method for preparation thereof. 3,058,-931, 10–16–62, Cl. 260—17.

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Petty, Macon, to Hudson Engineering Corp. Rib forming method. 3,053,722, 9–11–62, Cl. 156—210.

Petty, Olive S.: *See*—
Hasbrook, Arthur F. 3,020,970.
Hasbrook, Arthur F. 3,022,851.
Parr, Josephus O., Jr. 3,029,894.

Petusseau, Bernard J.: *See*—
Bondiou, Jean-Claude, and Petusseau. 3,016,385.

Petzhold, Hellmuth, to Cavallo, Friedrich, Getreibe- und Zahnraderfabrik G.m.b.H. Ball transmission unit. 3,026,-736, 3–27–62, Cl. 74—193.

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Peugh, William E.: *See*—
Durkee, James D., Stewart, and Peugh. 3,035,250.

Peukert, Dietrich: *See*—
Maisack, Herbert, Peukert, and Schoenleben. 3,037,977.

Pevaro, Maxwell. Composition and process for inspection of autogenous welds. 3,040,164, 6–19–62, Cl. 219—83.

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Pewthers, Charles W., to Albritton Engineering Corp. Power excavating device. 3,065,557, 11–27–62, Cl. 37—141.

Pexton, Harold W.: *See*—
Kristiansen, Frank T., and Pexton. 3,064,333.

Peynado, Charles L., to The C. E. Sheppard Co. Expandible loose leaf binder. 3,026,876, 3–27–62, Cl. 129—41.

Peyria, Henri, to Neyrpic, Etablissements. Method and means for quieting the hydraulic operation of turbines. 3,047,267, 7–31–62, Cl. 253—26.

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Peyton, Charles M. Coaster. 3,026,123, 3–20–62, Cl. 280—87.01.

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Pfaff, Elmer F.: *See*—
Henning, Robert W., Pfaff, and Kopf. 3,041,616.

Pfaff, Elmer F., to Olin Mathieson Chemical Corp. Bracket attaching fixture for fastener driving tool. 3,019,441, 2–6–62, Cl. 1—44.5.

Pfaff, Elmer F., and C. J. De Caro, to Olin Mathieson Chemical Corp. Fastener driving tools. 3,060,440, 10–30–62, Cl. 1—47.

Pfaff, G. M., AG.: *See*—
Hedegaard, Kristen. 3,059,601.
Heimann, Willi. 3,048,135.
Reeber, Rudolf, Dobner, and Astrupgaard. 3,066,625.
Reeber, Rudolf, and Wenz. 3,037,471.
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Schönthaler, Rubi and Schenkengel. 3,053,208.
Winz, Karl. 3,024,750.
Winz, Karl. 3,033,142.

Pfaff, Henry C., Jr., to Pfaff and Kendall. Sectional pole and method of forming same. 3,031,041, 4–24–61, Cl. 189—29.

Pfaff, Henry C., Jr., to Pfaff and Kendall. Lighting fixture. 3,032,648, 5–1–62, Cl. 240—25.

Pfaff, Hermann: *See*—
Muckel, Alfred, and Pfaff. 3,061,283.

Pfaff, Johann: *See*—
Junge, Johann, von Blumencron, Pfaff, and Scheuermann. 3,054,669.

Pfaff and Kendall: *See*—
Pfaff, Henry C., Jr. 3,031,041.
Pfaff, Henry C., Jr. 3,032,648.
Schlosser, Francis G., and Gazzo. 3,050,620.

Pfaff, Robert W., to The Reliance Electric & Engineering Co. Limit circuit. 3,069,618, 12–18–62, Cl. 323—22.

Pfaff, Ross L.: *See*—
Hogg, James C., and Pfaff. 3,021,949.

Pfaff, Thomas B.: *See*—
Dunn, Robert G., and Pfaff. 3,059,294.
Dunn, Robert G., and Pfaff. 3,059,297.

Pfann, William G., to Bell Telephone Laboratories, Inc. Internal field transistor. 3,059,123, 10–16–62, Cl. 307—88.5.

Pfann, William G., to Bell Telephone Laboratories, Inc. Pressure transducers. 3,065,636, 11–27–62, Cl. 73—398.

Pfanstiehl Laboratories, Inc.: *See*—
Behnke, Reinhold. 3,022,343.
Hoistein, Arthur G. 3,036,900.

Pfarrwaller, Erwin to Sulzer Freres, S.A. Heald frames and guides therefor in looms for weaving. 3,020,930, 2–13–62, Cl. 139—82.

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Pfarrwaller, Erwin, to Sulzer Freres, S.A. Method and means for scanning a pattern card of a dobby. 3,060,975, 10–30–62, Cl. 139—317.

Pfau, Jean, to Elox Corp. of Michigan. Electric circuits adapted to equip a machine for machining by sparks. 3,033,971, 5–8–62, Cl. 219—69.

Pfau, Jean, to Ateliers des Charmilles S.A. Electric machining processes. 3 061,708, 10–30–62, Cl. 219—69.

Pfaudler Permutit, Inc.: *See*—
Chu, Gordon P. K., and Helwig. 3,055,779.
Olmstead, Philip J., and Starrett. 3,037,458.
Sanford, Elbert A., and Jen Su. 3,062,685.
Sanfor, Elbert A., and Warren. 3,051,589.

Pfaus, George S.: *See*—
Reese, Henry W. 3,062,715.

Pfauser, Edward M., to Hal-Gan Products, Inc. Self-propelled power mower. 3,063,226, 11–13–62, Cl. 56—25.4.

Pfefferman, Murray: *See*—
Heller, Joseph I. 3,057,966.

Pfeffer, Edward C., Jr., to Cluett, Peabody & Co., Inc. Orientating device. 3,059,923, 10–23–62, Cl. 271—58.

Pfefferkorn, Otto T., to North American Aviation, Inc. Antiseize and sealing composition and method. 3,041,277, 6–26–62, Cl. 252—30

Pfeifenroth, Frank A.: *See*—
Rempel, Dietrich G., and Pfeifenroth. 3,031,720.

Pfeifer, Arthur A.: *See*—
Von Berg, Richard E., and Pfeifer. 3,053,990.

Pfeifer, Charles F.: *See*—
Gonzales-Pelaez, Manuel. 3,020,167.

Pfeifer, Josef: *See*—
Biedermann, Friedrich, Wick, and Pfeifer. 3,060,434.

Pfeifer, Melvin G.: *See*—
Haymer, Paul F., Thompson, Walker, Pfeifer, Campman, and Boothroyd. 3,026,638.

Pfeiffer, Arthur, G.m.b.H.: *See*—
Becker, Willi. 3,020,102.

Pfeiffer, Claes F. H., to Elektriska Svetsningaktiebolaget. Arc welding of joints in constructions liable to be subjected to low temperatures, and arc welding electrodes therefor, 3,031,343, 4–24–62, Cl. 117—204.

Pfeiffer, Fred B.: *See*—
Crossan, Jesse R. 3,032,910.

Pfeiffer, Fred B., ½ to J. R. Crossan. Method of making a vehicular tire. 3,020,190, 2–6–62, Cl. 156—125.

Pfeiffer, Frederick L., to American Cyanamid Co. Pigmentary copper phthalocyanine in the "R" form and its preparation. 3,051,721, 8–28–62, Cl. 260—314.5.

Pfeiffer, George J., Sr.: *See*—
Birkenbach, Eugene J., Brown, Vendl, and Pfeiffer. 3,049,183.

Pfeiffer, Gerhard: *See*—
Fuchs, Otto, Meininger, and Pfeiffer. 3,068,240.

Pfeiffer, Paul O., to The General Tire & Rubber Co. Hydraulic brake. 3,055,456, 9–25–62, Cl. 188—73.

Pfeiffer, Robert H., D. B. Brandon, and R. Swidler, to W. R. Grace & Co. Process for the preparation of hydroxy pelargonic acid derivatives. 3,036,100, 5–22–62, Cl. 260—410.9.

Pfeiffer, Robert W.: *See*—
Frank, Sidney M., Peterson, and Pfeiffer. 3,053,914.

Pfeiffer, Robert W., and J. L. Patton, to The M. W. Kellogg Co. Preparation of cyclohexane. 3,070,640, 12–25–62, Cl. 260—667.

Pfeil, Heinrich. Heel with detachable lift. 3,041,747, 7–3–62, Cl. 36—42.

Pfennighausen, Anthony. Gopher trap. 3,045,385, 7–24–62, Cl. 43—90.

Pfennigsberg, Peter, G.m.b.H., Maschinenfabrik: *See*—
Geschka, Hugo W. 3,034,228.
Gillessen, Josef L. 3,066,521.

Pfenning, Reuben F., to Esso Research and Engineering Co. Solvent extraction with liquid sulfur dioxide followed by hydrocarbon wash. 3,051,650, 8–28–62, Cl. 208—338.

Pferd, William: *See*—
Cath, Pieter G., and Pferd. 3,046,355.

Pferd, William, to Bell Telephone Laboratories, Inc. Credit card operated telephone. 3,022,381, 2–20–62, Cl. 179—6.4.

Pferd, William, to Bell Telephone Laboratories, Inc. Card holder for card dialer. 3,055,679, 9–25–62, Cl. 281—4.

Pfeuffer, Anton. Apparatus to charge an earth filter in a pipeline carrying a fluid. 3,039,655, 6–19–62, Cl. 222—133.

Pfister, Anthony C., to Allen-Bradley Co. Method for making sealed resistors. 3,037,266, 6–5–62, Cl. 29—155.63.

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Pfister, Karl, III: *See*—
Conbere, John P., and Pfister. 3,068,223.

Pfister, Rudolf, and F. Häfliger, to Geigy Chemical Corp. New carbostyril derivatives. 3,025,299, 3–13–62, Cl. 260—289.

Pfister, Xaver: *See*—
Geiger, Georg and A., and Pfister. 3,029,249.
Geiger, Georg, and Pfister. 3,065,092.

Pfizer, Chas., & Co., Inc.: *See*—
Agnello, Eugene J., and Laubach. 3,031,375.
Agnello, Eugene J., and Laubach. 3,031,444.
Agnello, Eugene J., Laubach, and Moreland. 3,067,197.
Bavisotto, Vincent S. 3,034,902.
Beereboom, John J. 3,038,908.
Beereboom, John J., and Butler. 3,069,467.
Beereboom, John J., Rennhard, and Stephens. 3,043,875.
Berg, Rudolph G. 3,056,816.
Berg, Rudolph G., Figdor, and Laubach. 3,018,295.
Berg, Rudolph G., Figdor, and Laubach. 3,033,855.
Berg, Rudolph G., and Laubach. 3,022,295.
Berg, Rudolph G., and Laubach. 3,022,297.
Berg, Rudolph G., and Laubach. 3,022,325.
Blackwood, Robert K. 3,026,354.
Blackwood, Robert K., and Brunings. 3,042,716.
Blackwood, Robert K., and Stephens. 3,047,617.
Bloom, Barry M., and Carnahan. 3,040,061.
Buchtenkirch, Arthur J., Lipkin, and Widenor. 3,053,-232.
Cameron, Donald P. 3,070,504.
Cameron, Donald P. 3,070,507.
Celmer, Walter D. 3,022,219.
Celmer, Walter D. 3,026,349.
Celmer, Walter D. 3,040,033.
Celmer, Walter D., Murai, Routien, and Sobin. 3,021,-259.
Chance, Franklin S., and Martin. 3,053,733.
Conover, Lloyd H. 3,027,379.
English, Arthur R., and McBride. 3,061,513.
Figdor, Sanford K., Hess, Groton, and Laubach. 3,069,-416.
Figdor, Sanford K., Hess, and Laubach. 3,069,415.
Figdor, Sanford K., Hess, and Laubach. 3,069,416.
Figdor, Sanford K., and Laubach. 3,064,017.
Figdor, Sanford K., Pinson, Bloom, and Laubach. 3,045,-010.
Gordon, Philip N. 3,029,284.
Gordon, Philip N., Stephens, Noseworthy, and Teare. 3,017,323.
Hammer, Henry F. 3,062,717.
Hammer, Henry F., Jarowski, and Pilgrim. 3,036,120.
Hess, Hans-Jurgen E., Figdor, Hughes, and Moreland. 3,042,691.
Hess, Hans-Jurgen E., Hughes, and Laubach. 3,047,594.
Holland, Gerald F., and McLamore. 3,033,902.
Huang, Hsing T. 3,043,749.
Hull, Ezekiel H., Leach, and Tate. 3,055,873.
Humphrey, Marshall F., and Bray. 3,036,125.
Julian, Percy L., and Cole. 3,055,918.
Kardys, Joseph A. 3,046,310.
Larrabee, Clifford E. 3,067,242.
Laubach, Gerald D., and Pinson. 3,016,383.
Lombardino, Joseph G., and McLamore. 3,055,894.
Lombardino, Joseph G., McLamore, and Laubach. 3,021,-331.
Lombardino, Joseph G., McLamore, and Laubach. 3,042,671.
Lombardino, Joseph G., McLamore, and Laubach. 3,045,-008.
Maxwell, Charles E., III, and Gordon. 3,056,798.
Miller, Max W. 3,064,047.
Miskel, John J., Fitzgerald, and Ackley. 3,026,792.
Miskel, John J., Strom, Michel, and Tencredi. 3,026,873.
Noseworthy, Melvin M., and Spiegel. 3,026,248.
Nubel, Robert C., and Ratajak. 3,044,941.
Oddo, Frank G. 3,045,641.
Oddo, Frank G., and Miskel. 3,032,950.
Ottke, Robert C., and Niven. 3,057,735.
Pindzola, Daniel, Nazarewicz, and Beesch. 3,056,247.
Pinson, Ellis R., Jr., Agnello, and Laubach. 3,033,747.
Pinson, Ellis R., Jr., Agnello, and Laubach. 3,033,873.
Pinson, Ellis R., Jr., Agnello, and Laubach. 3,033,874.
Rao, Koppaka V. 3,051,625.
Rao, Koppaka V. 3,051,626
Rennhard, Hans H., Conover, Gordon, and Stephens. 3,043,876.
Sarcona, Gasper, and Kardys. 3,037,973.
Sardinas, Joseph L. 3,032,475.
Seto, Thomas A. 3,056,729.
Sherman, William C. 3,022,218.
Shull, Gilbert M. 3,039,926.
Shull, Gilbert M. 3,040,038.
Spiegel, Allen J. 3,062,718.
Stephens, Charles R., Jr. 3,028,409.
Stephens, Charles R., Jr., and Conover. 3,047,626.
Stieg, William E., and Nielsen. 3,047,598.
Tanner, Fred W., Jr., Hochstein, and Murai. 3,022,347.
Thulke, Hermann G. 3,061,991.
Tretter, James R. 3,053,845.
Ursprung, Joseph J. 3,017,322.

Pflederer, Dale E.: *See*—
Medley, Jackson C., and Pflederer. 3,049,187.

Pfleger, Frederick W., and R. Y. Noel, to Radio Corp. of America. Error indicating system. 3,051,955, 8–28–62, Cl. 346—110.

Pfleiderer, Gerhard: *See*—
Herbert, Hans, Reiher, and Pfleiderer. 3,059,318.

Pfluger, Robert D., and J. R. Babbitt, to Shell Oil Co. Power level controller. 3,068,796, 12–18–62, Cl. 103—11.

Pflugmann, Georg. Simulated table football game. 3,066,-937, 12–4–62, Cl. 273—85.

Pflumm, Heinz R., to Texas Instruments Inc. Method of making composite stock. 3,059,331, 10–23–62, Cl. 29—528.

Pflumm, Heinz R., and J. J. Bushinski, to Texas Instruments Inc. Alloy and composite stock. 3,057,049, 10–9–62, Cl. 29—195.

Pfost, Robert F.: *See*—
Roizen, Joseph, and Pfost. 3,037,073.

Pfost, Robert F., to Ampex Corp. Tape transducing apparatus. 3,020,359, 2–6–62, Cl. 179—100.2.

Pfrehm, Raymond H., to Esso Research and Engineering Co. Proving meters. 3,021,703, 2–20–62, Cl. 73—3.

Pfroepfer, Klaus: *See*—
Kasparek, Hermann, Stack, and Pfroepfer. 3,028,389.

Pfundt, George M. Cable lashing machine. 3,024,000, 3–6–62, Cl. 254—134.3.

Pfundt, George M. Charging and pressure testing clamp. 3,045,475, 7–24–62, Cl. 73—49.8.

Phaneuf, Raymond E.: *See*—
Hill, John, Phaneuf, and Fittz. 3,069,531.

Phansalkar Achyut K., A. H. Roebuck, and J. B. Scott, to Continental Oil Co. Low fluid loss fracturing composition. 3,046,222 7–24–62, Cl. 252—8.55.

Phares, Howard L., to Phares & Wilkins Mfg. Co. Stalk shredder. 3,027,702, 4–3–62, Cl. 56—26.

Phares & Wilkins Mfg. Co.: *See*—
Phares, Howard L. 3,027,702.

Pharis, William W., and E. H. Gatzert, to General Dynamics Corp. Routiner. 3,047,679, 7–31–62, Cl. 179—175.2.

Pharmaceutical Products, Inc.: *See*—
Huebner, Charles F. 3,031,458.

Pharmacia, Aktiebolaget: *See*—
Flodin, Per G. M., and Ingelman. 3,042,667.
Ifversen, Else N., Rubinstein, and Skagius. 3,025,303.
Mårtensson, Olle. 3,022,302.
Stjarnkvist, Oskar N. 3,022,168.

Pharmaria, Aktiebolaget: *See*—
Stenvall, Gillis, and Mårtensson. 3,065,136.

Pharo, Merritt W. Broom construction. 3,029,456, 4–17–62, Cl. 15—180.

Phelan, Louis A. M., and L. E. Koch; said Koch assor. to Phelan. Dispensing freezer. 3,061,281, 10–30–62, Cl. 259—109.

Phelan, Roy L., W. F. Minard, and K. L. Lockey, to Burroughs Corp. Record card transport system. 3,028,956, 4–10–62, Cl. 209—72.

Phelan, Terence K., to Howard Wall Ltd. Electrical control device for electrolytic cells. 3,063,929, 11–13–62, Cl. 204—228.

Phelon Magnagrip Co., Inc.: *See*—
Phelon, Russell E., and Martin. 3,026,075.

Phelon, Russell E. Regulating apparatus for permanent magnet alternator. 3,063,002, 11–6–62, Cl. 322—90.

Phelon, Russell E., and J. F. Martin, to Phelon Magnagrip Co., Inc. Christmas tree stand. 3,026,075, 3–20–62, Cl. 248—48.

Phelps, Charles F.: *See*—
Smith, Evander A. 3,049,160.

Phelps, Clyde H., to Raydyne Corp. Unbalance force indicator. 3,057,206, 10–9–62, Cl. 73—478.

Phelps, Clyde H., to Raydyne Corp. Dynamic deflection indicating apparatus. 3,059,479, 10–23–62, Cl. 73—466.

Phelps Dodge Copper Products Corp.: *See*—
Edlen, George, and Dumire. 3,070,649.
Edlen, George G., and Dumire. 3,040,288.
Hall, Ralph, Smith, and Hilker. 3,067,063.
Koerner, Ernest C., Hall, and Smith. 3,022,200.
Kuzeli, Charles R., Fowler, Davis, Klein, and MacDougall. 3,051,467.
Lausen, Verne H. 3,040,703.
Lavin, Edward, and Markhart. 3,037,957.
Lavin, Edward, and Markhart. 3,068,189.
Lavin, Edward, Fitzhugh, and Crozier. 3,069,379.
Sirois, Benoit J. 3,040,780.
Wohlforth, Ralph L. 3,018,883.
Wohlforth, Ralph L. 3,024,584.

Phelps Dodge Corp.: *See*—
Kuzell, Charles R., Fowler, Davis, Klein, Uren, and MacDougall. 3,023,454.

Phelps, Malcolm T., to Weber-Knapp Co. Latches. 3,035,-862, 5–22–62, Cl. 292—302.

Phelps, Richard W.: *See*—
Jordan, Charles E., and Phelps. 3,049,313.

Phelps, Stuart M.: *See*—
Coley, Nelson B., Phelps, and Daly. 3,054,993.

Phelps, Stuart M., to General Railway Signal Co. Automatic car retarder control system for railroads. 3,056,022, 9–25–62 Cl. 246—182.

Philadelphia Gear Corp.: *See*—
Denkowski, Walter J., Caldwell, and Kron. 3,069,855.

Philadelphia National Bank, The: *See*—
Fuller, Lawrence J. 3,038,308.

Philadelphia Quartz Co.: *See*—
Henry, Clarence R. 3,061,541.
Sams, Robert H., and Jeglum. 3,034,909.

Philbin, James P.: *See*—
Torn, Lawrence J., and Philbin. 3,046,533.

Philbin, James P., and W. B. Finnegan, to Cutler-Hammer, Inc. Feeding and gaging apparatus. 3,045,820, 7–24–62, Cl. 209—82.

Philbin, James P., and R. I. Salzer, to Cutler-Hammer, Inc. Measurement apparatus. 3,046,535, 7–24–62, Cl. 340—199.

Philbrick, Frank H. Ballast tamping machine with toggle action tamping mechanism. 3,028,818, 4–10–62, Cl. 104—12.

Philbrick, George A. Multiplier. 3,019,983, 2–6–62, Cl. 235—194.

Philbrick, Kenneth W.: *See*—
Timmer, David J., Philbrick, Mossbarger, and Caton. 3,022,432.

Philbrick-Strickland Laminates, Inc.: *See*—
Amos, Homer C. 3,027,622.
Amos, Homer C. 3,027,868.
Strickland, Edward T. 3,031,361.
Strickland, Edward T., and Amos. 3,043,017.

Philco Corp.: *See*—
Adams, Lowell V., and Siniawsky. 3,043,478.
Angelucci, Louis J., Jr. 3,054,672.
Berenbaum, Arthur. 3,044,181.
Berg, Carl O. 3,056,930.
Bloomsburgh, Ralph A. 3,020,434.
Bobb, Lloyd J., Goldman, and Maling. 3,022,377.
Boccierelli, Carlo V. 3,066,239.
Bonner, John J. 3,063,280.
Boothroyd, Wilson P. 3,068,317.
Boscia, Salvatore, and Kreinberg. 3,054,954.
Bradley, William E. 3,027,219.
Brenner, Millard M., and Chudleigh. 3,060,824.
Cavalieri, Albert L., Jr., and Roop. 3,024,429.
Certa, Anthony J., and McMahon. 3,069,876.
Certa, Anthony J., and Pool. 3,041,198.
Chatten, John B. 3,041,391.
Collins, Harold B., Jr. 3,043,914.
Collins, Harold B., Jr. 3,068,419.
Collins, Harold B., Jr., and Marshall. 3,069,505.
Colodny, Samuel H. 3,031,529.
Cramer, Bruce G. 3,040,189.
Creamer, Edgar M., Jr., and Hopengarten. 3,041,496.
Crouthamel, Richard. 3,015,874.
De Turk, Calvin E. 3,056,271.
Devery, James J. 3,067,603.
Di Paolo, Thomas V. 3,019,361.
Dow, Harrison E. 3,060,266.
Edwards, Franklin W. 3,058,383.
Evers, Dundred D. 3,018,643.
Ezzo, Carmen G. 3,061,760.
Fahey, John R., and Schnable. 3,056,074.
Fedde, George A., and Aires. 3,033,920.
Figlio, Joseph T., and Weisel. 3,039,515.
Fink, Donald G. 3,067,292.
Fisher, William G. 3,048,462
Garton, Albert F., Jr. 3,066,050.
Harman, Emil I. 3,036,154.
Haverstock, Julius J., and Goodman. 3,017,758.
Hubbard, James R. 3,038,324.
Hubbard, James R. 3,039,613.
Ingerman, Peter Z. 3,054,059.
Keiper, Francis P., Jr. 3,021,435.
Keiper, Francis P., Jr. 3,022,462.
Keiper, Francis P., Jr., Chatten, and Moulton. 3,041,592.
Kelley, Donald E., Moll, Parsons, and Pascale. 3,042,603.
La Bov, Albert. 3,065,398.
Laurent, George J. 3,050,726.
Marshall, Donald E., Jr. 3,046,490.
Martin, Walter C. 3,047,728.
McCallister, James P. 3,059,183.
Michlin, William. 3,042,593.
Moore, Robert C. 3,067,293.
Mullin, William H. 3,022,647.
Orr, Ernest G. 3,018,562.
Paz, Harold J., and Keiner. 3,030,586.
Plesser, Edgar W. 3,029,365.
Popaduk, George F. 3,025,474.
Robinson, Samuel A. 3,049,605.
Sanders, Donald P. 3,024,179.
Sanders, Donald P. 3,032,484.
Schnable, George L., and Javes. 3,017,332.
Schnable, George L., and Javes. 3,034,970.
Scofield, Donald W. 3,037,358.
Scofield, Donald W. 3,061,942.
Selby, Michael C., and Evers. 3,060,338.
Simpson, Charles G., and Loginow. 3,022,019.
Skoog, Douglas A. 3,044,903.
Slenker, Stephen, and Kinzinger. 3,022,465.
Smith, Gilbert M. 3,026,455.
Smith, Helen E. 3,038,769.
Sunstein, David E. 3,054,853.
Swartzman, Joseph A. 3,039,514.
Tiley, John W., and Williams. 3,067,114.
Tyson, Charles H. 3,056,900.
Van Sciver, Edwin P. 3,026,400.
Waring, John W. 3,025,343.
Waring, John W. 3,049,682.
Waring, John W. 3,051,904.
Wilcox, Jack E. 3,027,523.
Wolfe, Paul G. 3,024,305.

Philco Corp.: *See*—Continued
Zearfoss, Elmer W., Jr. 3,028,464.
Zearfoss, Elmer W., Jr. 3,029,609.
Zearfoss, Elmer W., Jr. 3,033,005.
Zechter, Sol, and Gruen. 3,051,900.

Philip, George O., to International Business Machines Corp. Tool depth control system. 3,021,464, 2–13–62, Cl. 318—162.

Philip, Morris. Knitting machine cam mechanism. 3,026,695, 3–27–62, Cl. 66—20.

Philipchuk, Vasil, and F. L. R. Bois, to Atlantic Research Corp. Explosive welding. 3,024,526, 3–13–62, Cl. 29—470.

Philippin, Georges: *See*—
Cerraz, Marius. 3,049,864.

Philippovic, Joachim W., and A. H. Jones, to Syntron Co. Micro feeder. 3,031,060, 4–24–62, Cl. 198—33.

Philipps, Samuel D.: *See*—
Slayter, Games, Snow, and Philipps. 3,021,563.

Philipps, Thomas E., to Owens-Corning Fiberglas Corp. Method of making molding compounds of glass fiber reinforced plastics. 3,022,210, 2–20–62, Cl. 156—180.

Philips Electronics, Inc.: *See*—
Bessen, Irwin I. 3,023,311.

Philips Electronics and Pharmaceutical Industries Corp.: *See*—
Mayers, Karl F. 3,035,372.

Philips, Frederick J.: *See*—
Loeb, Leopold, Clayton, Koltum, Philips, Segal, and Takemura. 3,054,695.

Philips Roxane, Inc.: *See*—
Costello, Christopher H. 3,062,720.

Philipson, Herman L., Jr.: *See*—
Perry, Edward G., Jr., and Philipson. 3,064,560.

Philipson, Joseph, to Aerojet-General Corp. Solid composite propellants containing heteropolymerized polyester resin. 3,031,289, 4–24–62, Cl. 149—2.

Philipson, Joseph, to Aerojet-General Corp. Slow burning solid composite propellant. 3,031,347, 4–24–62, Cl. 149—48.

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Phillians, Edward. Sleep preventing alarm. 3,054,868, 9–18–62, Cl. 200—52.

Phillipps, Gordon H., to Glaxo Laboratories Ltd. Steroid 21-pyrophosphate esters. 3,056,812, 10–2–62, Cl. 260—397.45.

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Phillips, Alvin B.: *See*—
Hignett, Travis P., Phillips, and Young. 3 034,883.

Phillips, Arthur P., to Burroughs Wellcome & Co. (U.S.A.) Inc., and The Wellcome Foundation, Ltd. C-substituted piperazine derivatives and method. 3,056,786, 10–2–62, Cl. 260—268.

Phillips, Arthur P., and J. W. Mentha, to Burroughs Wellcome & Co. (U.S.A.) Inc. Method of making chlorambucil. 3,046,301, 7–24–62, Cl. 26—471.

Phillips, Benjamin: *See*—
Frostick, Frederick C., and Phillips. 3,048,601.
Frostick, Frederick C., Jr., and Phillips. 3,018,259.
Frostick, Frederick C., Jr., and Phillips. 3,065,209.
Kilsheimer, John R., Phillips, and Starcher. 3,043,813.

Phillips, Benjamin, and P. S. Starcher, to Union Carbide Corp. Epoxy acetals. 3,018,294, 1–23–62, Cl. 260—348.

Phillips, Benjamin, and P. S. Starcher, to Union Carbide Corp. 3,4-epoxycyclohexanecarboxamides. 3,041,357, 6–26–62, Cl. 260—348.

Phillips, Benjamin, and P. S. Starcher, to Union Carbide Corp. Preparation of unsaturated nitriles. 3,043,860, 7–10–62, Cl. 260—465.2.

Phillips, Benjamin, and P. S. Starcher, to Union Carbide Corp. Beta, delta-dimethyl-beta, gamma-epoxy-delta-hexanolactone. 3,052,692, 9–4–62, Cl. 260—343.5.

Phillips, Benjamin, and F. C. Frostick, Jr., to Union Carbide Corp. Alpha-halo lactones. 3,056,802, 10–2–62, Cl. 260—343.

Phillips, Benjamin, and P. S. Starcher, to Union Carbide Corp. Epoxyalkyl acyl phosphates. 3,056,806, 10–2–62, Cl. 260—348.

Phillips, Benjamin, and P. S. Starcher, to Union Carbide Corp. Homopolymer of bis (2,3-epoxycyclopentyl) ether. 3,063,949, 11–13–62, Cl. 260—2.

Phillips, Benjamin, and P. S. Starcher, to Union Carbide Corp. Epsilon-caprolactones and process for preparing the same. 3,064,008, 11–13–62, Cl. 260—343.

Phillips, Benjamin A., to Whirlpool Corp. Home appliance. 3,040,547, 6–26–62, Cl. 62—485.

Phillips, Benjamin A., J. Roeder, Jr., and R. W. Kruggel, to Whirlpool Corp. Defrosting apparatus for an absorption refrigerator. 3,063,257, 11–13–62, Cl. 62—275.

Phillips, Bernard C.: *See*—
Nutten, Warren D., and Phillips. 3,045,605.

Phillips, Bernard C., to The Tillotson Mfg. Co. Charge forming apparatus. 3,030,084, 4–17–62, Cl. 261—41.

Phillips, Bernard C., to The Tillotson Mfg. Co. Charge forming method and apparatus. 3,037,751, 6–5–62, Cl. 261—35.

Phillips, Bernard C., to The Tillotson Mfg. Co. Charge forming method and apparatus. 3,065,957, 11–27–62, Cl. 261—35.

Phillips, Carlton C. : *See*—
Garski, Chester S., and Phillips. 3,061,285.

Phillips, Charles H. Two-part burial casket. 3,050,818, 8–28–62, Cl. 27—35.

Phillips, Clem H., and H. M. Scott, to United States of America, Navy. Means for extending coverage in an area moving target radar. 3,054,927, 9–18–62, Cl. 315—12.

Phillips, Clifford F., and P. G. Stultz, Jr., to C. M. O'Boyle. Servicing and testing device for valve bridges and hydraulic lash adjusters of Diesel engines. 3,039,300, 6–19–62, Cl. 73—119.

Phillips, Clifford F., and P. G. Stultz, Jr., to C. M. O'Boyle. Lash adjuster body pulling tool for Diesel engines. 3,041,-711, 7–3–62, Cl. 29—213.

Phillips, Curtis M. Scavenging attachment for internal combustion engines. 3,040,722, 6–26–62, Cl. 123—75.

Phillips, Curtis M. Grain pickup attachment. 3,055,162, 9–25–62, Cl. 56—364.

Phillips, Daniel B., and G. M. Martin. Cutting device with retainer for cut products in the tool thereof and suction means for stripping said product from retainer. 3,031,905, 5–1–62, Cl. 83—86.

Phillips, Davis M., to McGraw-Edison Co. Aerial cable bracket. 3,032,606, 5–1–62, Cl. 174—148.

Phillips, Davis M., to McGraw-Edison Co. Pedestals for underground wiring systems. 3,033,912, 5–8–62, Cl. 174—38.

Phillips, Delbert L., and L. L. Smith, to Telecomputing Corp. Fuel delivery system. 3,026,928, 3–27–62, Cl. 158—36.3.

Phillips, Donald D. : *See*—
Ward, Loyal P., Jr., and Phillips. 3,069,313.

Phillips, Donald D., and S. B. Soloway, to Shell Oil Co. Production of substituted halogenated phthalans. 3,036,092, 5–22–62, Cl. 260—346.2.

Phillips, Donald G., to United States of America, Air Force. Ramjet ignition system. 3,055,178, 9–25–62, Cl. 60—39.65.

Phillips, Dwight H. Cafeteria tray rail. 3,031,245, 4–24–62, Cl. 312—140.4.

Phillips, Donald W. Shoe repairing machine. 3,061,851, 11–6–62, Cl. 12—1.

Phillips Drill Co. : *See*—
Dieterich, Richard E. 3,070,382.
Werstein, Frank A. 3,028,167.

Phillips, Earl A., to Stanray Corp. Engine blast absorbing fence. 3,037,726, 6–5–62 Cl. 244—114.

Phillips, Earl A., to Standard Railway Equipment Mfg. Co. Contoured structural metallic sheet and method of forming same. 3,058,511, 10–16–62, Cl. 153—6.

Phillips Electrical Co. Ltd. : *See*—
Cole, Stephen, and McGinn. 3,027,003.

Phillips, Ferdinand N., Jr., T. C. Morris, and A. M. Chaplick; said Morris and Chaplick, assors. to B. B. Chemical Co. Shoe lining and stiffening materials. 3,020,169, 2–6–62, Cl. 117—33.

Phillips, Floyd L., Jr., to Old Dominion Box Co., Inc. Carton. 3,021,992, 2–20–62, Cl. 229—17.

Phillips, Fred C. Fastening device for golf shoe spikes. 3,040,449, 6–26–62, Cl. 36—2.5.

Phillips, Fred C. Baseball shoe spikes. 3,040,450, 6–26–62, Cl. 36—2.5.

Phillips, George T. Supporting structure for ceilings of buildings. 3,058,172, 10–16–62, Cl. 20—4.

Phillips, Harry, J. J. Maciejowski, W. A. Shafer, Jr., R. D. Tucker, and G. A. Fuller, Jr., to Ekco-Alcoa Containers, Inc. Container filling and sealing machines. 3,018,594, 1–30–62, Cl. 53—72.

Phillips, Harry, and J. J. Maciejowski, to Ekco-Alcoa Containers, Inc. Conveyor loading mechanisms. 3,027,989, 4–3–62, Cl. 198—20.

Phillips, Harry L., and L. S. Fain, to Floseal Corp. Die and method of making same. 3,063,349, 11–13–62, Cl. 93—58.

Phillips, Hazel B. : *See*—
Phillips, Omi G. 3,035,526.

Phillips, Jack H. : *See*—
Peirce, John E., and Phillips. 3,021,202.

Phillips, James L., Jr., to Texas Instruments Inc. Variable frequency synthesizer. 3,036,223, 5–22–62, Cl. 307—88.5.

Phillips, John E. : *See*—
Breakell, James H., and Phillips. 3,045,358.

Phillips, John J., A. A. Ozimek, and W. H. Rademaekers, to Titeflex, Inc. Reinforced flexible plastic hose and method of making. 3,023,787, 3–6–62, Cl. 138—121.

Phillips, John X. : *See*—
Hill, Edward G., and Phillips. 3,022,115.

Phillips, Kenneth A. : *See*—
Alsbury, Allan, Phillips, and Taylor. 3,047,509.

Phillips, Kenneth A., to American Zinc, Lead and Smelting Co. Smelting of zinc in ceramic retorts. 3,033,674, 5–8–62, Cl. 75—86.

Phillips, Kenneth G., to Nalco Chemical Co. Preparation of 1,3-dinitro - 5 - nitrato - hexahydropyrimidone-2. 3,025,296, 3–13–62. Cl. 260—251.

Phillips, Kenneth G., to Nalco Chemical Co. 5-hydroxy substituted tetrahydropyrimidines. 3,041,338, 6–26–62, Cl. 260—251.

Phillips, Leonard R., to Anemostat Corp. of America. Air distribution control outlet. 3,033,097, 5–8–62, Cl. 98—40.

Phillips, Malcolm E., Jr. : *See*—
Johnson, James V., Jr., Groppe, Hibbitts, and Phillips. 3,019,574.
Pinkham, Jesse R., and Phillips. 3,067,754.

Phillips, Malcolm E., Jr., and H. P. Curlee, Jr., to American Machine & Foundry Co. Automatic catcher. 3,019,581, 2–6–62, Cl. 53—236.

Phillips, Malcolm E., Jr., and J. R. Pinkham, to American Machine & Foundry Co. Paster for cigarette machines. 3,063,411, 11–13–62, Cl. 118—600.

Phillips, Nicholas. Spring clips for cards or the like. 3,030,-681, 4–24–62, Cl. 24—73.

Phillips, Omi G., deceased, by C. Weberg, executor, ½ to H. B. Phillips, and ½ to J. H. Rutledge. Variable volume pump. 3,035,526, 5–22–62, Cl. 103—161.

Phillips, Paul B. Water treater. 3,026,259, 3–20–62, Cl. 204—249.

Phillips, Paul C., to United States of America, Navy. Electronic method for generation of a single cycle of a trigonometric function. 3,017,580, 1–16–62, Cl. 331—166.

Phillips Petroleum Co. : *See*—
Adelman, Barnet R. 3,017,743.
Adelman, Barnet R. 3,044,254.
Alden, John P. 3,032,975.
Alleman, Carl E., and Bowers. 3,027,267.
Allen, James H. 3,049,920.
Allen, James H. 3,062,012.
Allen, John G. 3,020,322.
Allenson, Ray E. 3,029,734.
Allyn, Robert M., and Elliott. 3,016,970.
Alquist, Henry E. 3,044,502.
Alquist, Henry E., and Walters. 3,027,754.
Anderson, Herbert R., Jr. 3,057,791.
Anderson, Herbert R., Jr. 3,057,818.
Angel, Richard R. 3,048,230.
Angel, Richard R., and Boudreaux. 3,025,919.
Arnett, Earl K. 3,055,826.
Arnold, Philip M. 3,035,953.
Austin, Oliver K. 3,049,750.
Ayers, Buell O. 3,043,128.
Ayers, Buell O. 3,062,038.
Ayers, Buell O. 3,062,039.
Banks, Robert L. 3,018,255.
Barber, Franklin T., Waltman, and Piana. 3,070,586.
Barrett, Herbert M., and C. A. Sauber. 3,025,236.
Bauer, Robert D. 3,069,483.
Bauer, Robert D., and Bellinger. 3,048,373.
Bauer, Robert D., and Chapman. 3,066,175.
Bearden, Robert G., Kimball, Schneider, and Schwieger. 3,045,122.
Bearden, Robert G., and Schwieger. 3,044,236.
Bearer, Louis C. 3,069,844.
Beason, Elmer C., Jr. 3,035,595.
Berger, Donald E. 3,034,307.
Berger, Donald E., and Miller. 3,021,263.
Bergman, William E. 3,025,911.
Bergman, William E., Marwil, and Engle. 3,025,965.
Bethea, Charles F., and Pollock. 3,032,478.
Bice, Charles C. 3,018,204.
Bice, Charles C. 3,027,283.
Bice, Charles C. 3,066,057.
Blackwell, Jennings P. 3,032,450.
Blackwell, Jennings P. 3,063,945.
Blocker, Wade, and Greening. 3,027,087.
Bobo, Roy A. 3,017,937.
Bone, Bertram T., Jr. 3,024,171.
Bost, Howard W., and Doss. 3,055,171.
Bottenberg, Kenneth C., and Hendrix. 3,027,901.
Bottomley, Anthony. 3,048,895.
Brandt, Carl T. 3,022,986.
Brashear, Roy T. 3,023,835.
Broerman, Arthur B. 3,051,037.
Brooke, Jesse M. 3,019,342.
Brooke, Jesse M. 3,050,368.
Brooke, Jesse M. 3,051,646.
Brooke, Jesse M. 3,070,548.
Brown, Glenn S. 3,015,883.
Brown, Winston E., and Mabry. 3,018,202.
Buchanan, Ben B. 3,027,320.
Burk, Marvin C. 3,023,605.
Burk, Marvin C. 3,069,895.
Burnside, Charles H. 3,017,748.
Cabbage, John T. 3,049,886.
Cabbage, John T. 3,054,832.
Campbell, Paul E. 3,022,209.
Campbell, Paul E. 3,034,800.
Canterino, Peter J. 3,025,234.
Canterino, Peter J. 3,044,899.
Canterino, Peter J. 3,060,164.
Canterino, Peter J., and Edmonds. 3,023,180.
Canterino, Peter J., and Franzus. 3,050,510.
Carr, Donald E. 3,017,168.
Carr, Donald E. 3,048,967.
Carter, Charlie D., Jr. 3,047,069.
Cines, Martin R. 3,024,086.
Cines, Martin R. 3,067,184.
Cines, Martin R., and Kosinsky. 3,030,330.
Claudy, Harry N. 3,069,894.
Cleary, James W. 3,048,568
Cobb, Raymond L. 3,022,328.
Cobb, Raymond L., and Hudson. 3,050,482.
Collard, Clarence A., and De Shazo. 3,031,969.

Phillips Petroleum Co.: *See*—Continued
Collins, Russell L. 3,029,576.
Cooper, Richard N., Jr. 3,030,346.
Corley, Bryce M., and Ratliff. 3,062,694.
Cottle, John E., and Wallace. 3,026,314.
Crawford, Francis W. 3,050,116.
Crouch, Willie W. 3,023,570.
Crouch, Willie W. 3,042,637.
Cruzan, Charles G. 3,048,222.
De Ford, Donald D. 3,038,326.
De Ford, Donald D. 3,057,183.
De Ford, Donald D., and Ayers. 3,043,127.
De Haven, Clark G. 3,027,2[illegible]5.
De Haven, Clark G. 3,048,030.
De Lano, Merritt V., Jr., and Plaster. 3,019,273.
De Shazo, James D. 3,029,736.
Dickinson, Travis R. 3,035,509.
Dixon, Henry O. 3,044,546.
Doss, Richard C. 3,031,838.
Doss, Richard C. 3,055,739.
Doss, Richard C., and Blackwell. 3,019,081.
Doss, Richard C., and Bost. 3,051,752.
Doss, Richard C., and Reynolds. 3,018,619.
Doyle, Robert. 3,017,315.
Doyle, Robert, Holt, and Cooper. 3,019,488.
Dye, Robert F. 3,023,203.
Dye, Robert F. 3,024,093.
Dyer, Alvah F. 3,039,609.
Eades, Lawrence R. 3,044,515.
Eberle, Jack F. 3,022,735.
Eddy, William R. 3,058,431.
Eddy, William R., and Byer. 3,050,646.
Edmonds, James T., Jr. 3,066,132.
Edmonds, Lee O. 3,057,746.
Edwards, Harold L. 3,034,253.
Elliott, Ralph W. 3,054,265.
Elliott, Sam D. 3,041,578.
Farrar, Ralph C. 3,066,129.
Findlay, Robert A. 3,017,752.
Findlay, Robert A. 3,031,880.
Findlay, Robert A. 3,035,040.
Fisher, Waldo H. 3,056,762.
Flowers, Richard L. 3,034,912.
Fluegel, Dale A. 3,032,729.
Fluegel, Dale A. 3,050,253.
Fluegel, Dale A. 3,070,309.
Fluegel, Dale A., and Tolin. 3,070,302.
Fox, Homer M. 3,032,970.
Fox, Homer M. 3,035,948.
Fox, Homer M., and Stegelman. 3,032,449.
Fox, Homer M., and Stegelman. 3,050,435.
Franz, Richard D., and Warner. 3,017,320.
Franz, Richard D., and Warner. 3,051,758.
Frey, Frederick E. 3,015,543.
Frey, Frederick E., Crawford, and Marx. 3,034,580.
Gabriel, Henry. 3,057,698.
George, David M., Rush, and Held. 3,066,481.
Gerner, Robert V. 3,050,289.
Gilmore, Forrest E. 3,018,634.
Gilmore, Forrest E. 3,024,097.
Goodhue, Lyle D., and Cantrel. 3,034,950.
Goodhue, Lyle D., and Cantrel. 3,044,930.
Goodhue, Lyle D., and Cantrel. 3,055,803.
Goodhue, Lyle D., Cantrel, and Louthan. 3,067,093.
Goodhue, Lyle D., Louthan, and Cantrel. 3,023,142.
Goodhue, Lyle D., Louthan, and Stansbury. 3,060,081.
Gose, Robert O. 3,070,014.
Greening, John P. 3,032,743.
Greening, John P. 3,048,817.
Griffin, Donald E., and Kimble. 3,034,272.
Guay, Roland H. 3,017,826.
Guenther, Emmerich. 3,066,278.
Guth, Eugene D. 3,018,164.
Guth, Eugene D. 3,018,203.
Guth, Eugene D., and Long. 3,044,910.
Hachmuth, Karl H. 3,038,016.
Hackler, Lester L. 3,048,039.
Hall, Robert L., and Rohr. 3,053,708.
Hammaker, Paul B. 3,054,456.
Hancock, John D. 3,066,841.
Hanmer, Robert S. 3,057,697.
Hanmer, Robert S., and Carroll. 3,035,006.
Hanson, George E., and Stalder. 3,031,438.
Hanson, George H. 3,047,486.
Harper, Kenneth A. 3,037,063.
Hart, James L. 3,022,135.
Hawkins, Harold M. 3,017,751.
Haymes, William G., and Keathley. 3,026,674.
Hebard, Glen G. 3,034,187.
Helmers, Carl J. 3,048,223.
Herring, Liles G. 3,017,300.
Herty, Charles H., II. 3,053,709.
Hitzman, Donald O. 3,032,472.
Hitzman, Donald O. 3,069,325.
Holm, Vernon C. F., and Bailey. 3,032,599.
Holm, Vernon C. F., Bailey, and Clark. 3,045,054.
Hudson, Paul S. 3,050,423.
Hutchinson, William M. 3,023,249.
Hutchinson, William M. 3,036,025.
Hutchinson, William M. 3,048,968.
Hutchinson, William M., and Long. 3,022,206.
Hutton, John F. 3,026,254.

Phillips Petroleum Co.: *See*—Continued
Huxley, Edward E. 3,017,247.
Huxley, Edward E., and Fetchin. 3,058,810.
Jackson, James R., and Marsee. 3,032,118.
Johnson, Marvin M. 3,049,574.
Johnson, Marvin M. 3,053,172.
Johnson, Marvin M., and Schirmer. 3,049,872.
Jones, Rufus V., and Scott. 3,022,254.
Jones, Rufus V., and Svetlik. 3,035,954.
Karasek, Francis W. 3,026,184.
Kindred, Raymond L., and Burk. 3,049,908.
Kindred, Raymond L., and Porter. 3,069,896.
King, William R., and Keaton. 3,036,737.
Kiphart, Otta W. 3,017,746.
Klapper, William R. 3,024,223.
Kleiss, Louis D. 3,020,490.
Kleiss, Louis D., and McLeod. 3,050,450.
Kolner, Samuel J. 3,023,090.
Kraus, Gerard, and Dugone. 3,023,188.
Kraus, Gerard, and Rollmann. 3,021,226.
Krejci, Joseph C. 3,018,309.
Kron, Carl M. 3,050,578.
Kuntz, Louis E., and Remke. 3,019,649.
Lanning, William C. 3,027,312.
Larsen, Olaf E. 3,031,839.
Larsen, Olaf E., and Guth. 3,058,301.
La Rue, Harold E. 3,025,702.
Legatski, Harold R. 3,034,773.
Legatski, Theodore W. 3,051,649.
Lindsey, Joe P., and Piety. 3,070,777.
Logan, Richard S. 3,023,231.
Long, Claude G. 3,035,950.
Louthan, Rector P. 3,034,991.
Louthan, Rector P. 3,037,967.
Louthan, Rector P. 3,038,944.
Louthan, Rector P. 3,050,452.
Lupfer, Dale E. 3,020,213.
Lupfer, Dale E. 3,020,975.
Lupfer, Dale E. 3,021,279.
Lupfer, Dale E. 3,026,710.
Lyons, Harold D. 3,051,692.
Mahan, John E. 3,020,708.
Mahan, John E. 3,021,238.
Mahan, John E., and Bost. 3,023,569.
Mahan, John E., and Kleinschmidt. 3,028,438.
Mahan, John E., and Louthan. 3,019,267.
Mahan, John E., and Stansbury. 3,067,091.
Malick, Emil A. 3,070,419.
Marsh, Donald A. 3,017,249.
Marsh, Donald A. 3,017,662.
Marsh, Donald A. 3,028,970.
Marwil, Stanley J. 3,050,952.
Marx, John W. 3,016,953.
Marx, John W. 3,070,159.
Marx, John W., Langenheim, Dixon, and Trantham. 3,019,837.
McKay, Dwight L. 3,029,948.
McLeod, Norman F. 3,024,228.
McLeod, Norman F. 3,057,696.
McMullan, Russell R. 3,027,237.
Mendenhall, Harold L., and Elliott. 3,040,833.
Mihm, Clifford H., Warner, and Duke. 3,022,351.
Miller, Elmer C. 3,015,985.
Miller, Elmer C., and Karasek. 3,049,964.
Miller, John W. 3,030,280.
Miller, Kenneth F. 3,021,748.
Moberly, Charles W., and Renaudo. 3,023,201.
Moreland, Carlton A. 3,026,772.
Morgan, Lyman W. 3,018,229.
Morgan, Lyman W. 3,067,014.
Morgan, Lyman W., and Freeman. 3,018,230.
Morgan, Lyman W., and Trent. 3,050,469.
Murphey, Joseph H., Jr. 3,048,008.
Myers, John W. 3,046,317.
Myers, John W. 3,047,490.
Naylor, Floyd E. 3,067,188.
Nelson, William T., and Turk. 3,070,518.
Norman, Billy J. 3,021,479.
Nowlin, Gene, and Lyons. 3,023,198.
Nowlin, Gene, and Lyons. 3,024,227.
Oberfell, George G. 3,026,801.
Oberfell, George G., and Atkinson. 3,053,185.
Osburn, Charles W., and Kleinschmidt. 3,022,152.
Osburn, Carl L., Jr. 3,057,695.
Parker, Harry W. 3,031,014.
Parker, Harry W. 3,031,762.
Parker, Harry W. 3,032,102.
Parker, Harry W. 3,032,103.
Parker, Harry W. 3,034,579.
Parker, Harry W. 3,044,859.
Parker, Harry W. 3,048,224.
Parker, Harry W. 3,050,385.
Parker, Harry W. 3,055,423.
Parker, Harry W., and Marx. 3,053,680.
Parker, Harry W., and Marx. 3,061,451.
Parker, Harry W., Marx, and Trantham. 3,035,638.
Parsons, James R., and Wightman. 3,060,662.
Passley, Paul L., and Eberle. 3,022,541.
Payton, Edwin M., and Slover. 3,042,196.
Peck, Alvin W. 3,025,806.
Pennington, Edward N., Dye, Brown, and Wood. 3,038,788.

Phillips Petroleum Co.: *See*—Continued
Perry, Daniel E. 3,044,112.
Pitchford, Armin C. 3,032,437.
Pitzer, Emory W., and Morgan. 3,051,662.
Plaster William E., and Dixon. 3,053,521.
Pollock, Lyle W. 3,057,840.
Pollock, Lyle W., and Wood. 3,018,171.
Prentiss, Spencer S. 3,018,828.
Pritchard, James E., Hutchinson, and Hudson. 3,055,-782.
Province, John H. 3,058,426.
Pryor Robert C. 3,044,551.
Pryor, Robert C., and Bennett. 3,055,427.
Railsback, Henry E., and Stumpe. 3,060,989.
Ratliff, Otho D., and McMichael. 3,049,452.
Ratliff, Otho D., Jr. 3,023,702.
Reed, Edwin E. 3,017,057.
Reed, Edwin E. 3,035,440.
Reichle, Alfred D. 3,048,225.
Renberg, Graham A. 3,032,545.
Reusser, Robert E. 3,034,856.
Reusser, Robert E., and Vives. 3,070,435.
Reusser, Robert E., and Wilson. 3,057,711.
Reynolds, William B. 3,049,519.
Rion, Pat F. 3,036,056.
Robbins, Archie L. 3,020,258.
Robbins, Archie L., and Mills. 3,028,363.
Robbins, Archie L., and Mills. 3,050,494.
Rogers, Allen S., and Purre. 3,024,013.
Rush, Elton E. 3,048,069.
Sammons, George D. 3,024,144.
Sammons, George D. 3,026,672.
Sammons, George D. 3,027,282.
Sammons, George D. 3,027,284.
Sammons, George D., and Doss. 3,024,143.
Sandford, Robert M. 3,023,619.
Sanford, Richard A. 3,069,897.
Sanford, Richard A., and Price. 3,035,383.
Schirmer, Robert M. 3,067,582.
Schleicher, Armur R. 3,062,282.
Schleicher, Arthur R., and Trantham. 3,055,422.
Schutz, Howard W., and Gilbert. 3,032,446.
Scott, Cleveland R., and Allred. 3,068,640.
Scott, John N., Jr. 3,021,568.
Scott, John N., Jr., and Alexander. 3,026,567.
Scott, Richard L. 3,050,372.
Shaw, Prudence. 3,048,941.
Shiver, Amos J. 3,049,921.
Shope, Claude A. 3,048,112.
Short, James N., and Solomon. 3,036,045.
Shotton, James A. 3,032,371.
Shotton, James A., and Edmonds. 3,060,060.
Simmons, Bill J. 3,017,252.
Solomon, Paul W. 3,050,487.
Stinson, Donald L. 3,019,486.
Stoops, Charles E. 3,050,288.
Stratton, Charles A. 3,070,165.
Stratton, Charles A., Pitchford, and Sarrett. 3,028,333.
Sweeney, Cecil J., and Sullenger. 3,039,941.
Swinney, Gordon W. 3,056,265.
Teague, Abner F. 3,023,572.
Tek, Mehmet R. 3,023,807.
Tek, Mehmet R. 3,048,221.
Thomas, John C. 3,049,909.
Tooke, James W. 3,044,545.
Trantham, Joseph C. 3,062,283.
Umbach Roy D. 3,069,353.
Uraneck, Carl A., and Burleigh. 3,062,791.
Uraneck, Carl A., and Sonnenfeld. 3,070,583.
Usher, Francis C. 3,054,406.
Van Pool, Joe. 3,018,310.
Van Pool, Joe, and Hann. 3,045,055.
Veal, Dean J. 3,050,360.
Vesper, Daniel M. 3,059,846.
Vesper, Daniel M. 3,069,898.
Vesper, Daniel M., and Price. 3,039,309.
Vives, Van C. 3,034,858.
Wadhill, Paul M. 3,057,786.
Wallace, Robert G. 3,036,057.
Wallace, Robert G. 3,056,772.
Warner, Paul F. 3,030,432.
Warner, Paul F. 3,035,933.
Warner, Paul F. 3,038,013.
Warner, Paul F. 3,051,614.
Warner, Paul F. 3,055,946.
Warner, Paul F. 3,070,605.
Warner, Paul F., Archer, and Franz. 3,064,025.
Warner, Paul F., and Franz. 3,051,695.
Weedman, John A. 3,067,270.
Welchon, James K. 3,070,033.
Welty, Richard O., and Rush. 3,044,493.
Werkman, Robert T., and Canterino. 3,049,455.
Wheelock, Charles E. 3,018,277.
Wheelock, Charles E. 3,023,187.
Wheelock, Charles E. 3,025,273.
Wheelock, Charles E. 3,028,370.
Wheelock, Charles E. 3,035,028.
Wheelock, Charles E., and Conterino. 3,022,322.
Whitsel, Travis S., Jr. 3,069,843.
Wicklatz, John E., and Franzus. 3,022,283.
Wicklatz, John E., and Moberly. 3,049,529.
Wilkins, Paul E. 3,035,958.

Phillips Petroleum Co.: *See*—Continued
Wilkins, Paul E. 3,049,465.
Williams, Barney W., and Murphey. 3,031,841.
Wilson, Joseph F. 3,035,899.
Wilson, Joseph F. 3,050,383.
Wilson, Lawrence V., Jr. 3,050,953.
Wilson, Lawrence V., Jr., and Czenkusch. 3,028,375.
Wilson, Reagan T. 3,050,457.
Witt, Donald R. 3,018,279.
Wood, James Q. 3,050,484.
Wride, William J. 3,055,879.
Zavasnik, Frederick J. 3,039,142.
Zelinski, Robert P. 3,070,587.
Zelinski, Robert P., and Smith. 3,050,513.
Phillips, Preston S.: *See*—
Ball, John D., and Phillips. 3,060,388.
Phillips, Ralph P.: *See*—
Jensen, Walter L., Phillips, and Claussen. 3,052,792.
Phillips, Reginald A., to Electro-Hydraulics Ltd. Hydraulic indexing device. 3,068,650, 12–18–62, Cl. 60—54.5.
Phillips, Richard M., to The British Petroleum Co. Ltd. Indicator system for a liquid supply system. 3,069,051, 12–18–62, Cl. 222—26.
Phillips, Robert: *See*—
Levine, Bernard B., and Phillips. 3,047,196.
Phillips, Robert J. to Howe-Baker Engineers, Inc. Process of reducing sulfate content in stock feed. 3,066,087, 11–27–62, Cl. 204—190.
Phillips, Robert K., and E. E. Clarke, to International Business Machines Corp. Magnetic core circuit. 3,030,610, 4–17–62, Cl. 340—174.
Phillips, Samuel R., to Joy Mfg. Co. Swivelled hook for a travelling block. 3,032,364, 5–1–62, Cl. 294—82.
Phillips, Samuel R., to Joy Mfg. Co. Traveling block with variable air spring. 3,037,803, 6–5–62, Cl. 294—82.
Phillips Screw Co.: *See*—
Muenchinger, Herman G. 3,025,896.
Muenchinger, Herman G. 3,028,781.
Phillips-Van Heusen Corp.: *See*—
Williams, John D., and Pineau. 3,053,287.
Phillips, Velma. Decorative member for yards, gardens, and the like. 3,057,096, 10–9–62, Cl. 41—10.
Phillips, Virgel E., to General Electric Co. Electric circuit interrupter of the liquid-break type. 3,028,466, 4–3–62, Cl. 200—150.
Phillips, Werner A., to United States of America, Interior. Sealed ball joint for electrodes. 3,028,183, 4–3–62, Cl. 287—87.
Phillips, William H.: *See*—
Grover, William E., and Phillips. 3,024,931.
Phillips, William H. Truck elevator. 3,048,283, 8–7–62, Cl. 214—75.
Phillips, Willis J. Automatic sequential lawn-spraying installation. 3,027,094, 3–27–62, Cl. 239—66.
Phil-Mar Corp.: *See*—
Goldfine, Philip F. 3,016,455.
Philofsky, Harold: *See*—
Lewis, Daniel W., and Philofsky. 3,069,302.
Philpott, Peter G.: *See*—
Osbond, John M., and Philpott. 3,031,512.
Osbond, John M., Philpott, and Wickens. 3,033 884.
Phin, Sydney R., to Package Forming Machinery Co. Ltd. Cartons. 3,021,043, 2–13–62, Cl. 229—16.
Phinizy, Robert B., to P.S.P. Engineering Co. Rotary electromagnetic actuator. 3,052,828, 9–4–62, Cl. 317—199.
Phipers, Richard F.: *See*—
Phipps, Edward S. R., and Phipers. 3,055,800.
Phipps & Bird, Inc.: *See*—
Rexrode, Hampton M., and Harrison. 3,041,517.
Phipps, Cornelius M., to Plastofilm, Inc. Dispenser package. 3,025,952, 3–20–62, Cl. 206—42.
Phipps, Ernest S., to Dennison Mfg. Co. Paster tabs and method of making. 3,065,101, 11–20–62, Cl. 117—38.
Phipps, Lawrence C., III, to General Optics, Inc. Contact lens case. 3,037,616, 6–5–62, Cl. 206—5.
Phleger, Herman, executor: *See*—
Bailey, Frazer A. 3,019,757.
Phoenix Glass Co., The: *See*—
Peltz, Gordon M. 3,020,395.
Phoenix Products Co., Inc.: *See*—
O'Keefe, Eugene M. 3,018,366.
Wenman, William A. 3,018,364.
Wenman, William A., and Morton. 3,018,365.
Photocircuits Corp.: *See*—
Schneble, Frederick W., Jr., McCormack, and Zeblisky. 3,033,703.
Photo-Engravers Research, Inc.: *See*—
Bradley, James W., Elston, and Burrows. 3,033,793.
Daugherty, Phillip M., and Vaughn. 3,033,725.
Photogenic Machine Co., The: *See*—
Ogier, Baxter B., and Umbach. 3,021,422.
Umbach, Louis A. 3,039,375.
Photoronix, Inc.: *See*—
Preston, Everett S. 3,026,766.
Photostat Corp.: *See*—
Caps, Arthur W., and Rittinger. 3,045,540.
Phototypograph Corp.: *See*—
Drillick, Jacob H. 3,065,835.
Photronix, Inc.: *See*—
Preston, Everett S. 3,031,761.

Phrix-Werke A.G.: *See*—
Hechler, Georg, and Weber. 3,038,779.
Hoffmann, Eugen. 3,051,986.
Kaiser, Franz. 3,055,728.
Kompass, Helmut. 3,024,493.
Opderbeck, Fritz, Trapp, and Worner. 3,021,253.
Schöttler, Helmut. 3,044,345.

Phrix-Werke AG., Firma: *See*—
Hoffmann, Eugen. 3,058,332.

Phylip-Jones, Gwilym, to General Electric Co. Ltd. Transistor shift register with blocking oscillator stages. 3,026,-422, 3–20–62, Cl. 307—88.5.

Physical Sciences Corp.: *See*—
Kyle, James C., and Curtis. 3,056,934.

Piacente, Anthony N.: *See*—
White, Harold J., and Piacente. 3,015,356.

Piacente, Anthony N., to Congoleum-Nairn Inc. Stabilized vinyl compositions. 3,053,802, 9–11–62. Cl. 260—45.7.

Piaia, Carl, Jr.: *See*—
Henry, Edward N., and Piaia. 3,030,596.

Piaia, Carl, Jr., and R. N. Dieter, to Westinghouse Electric Corp. Insulated electrical apparatus. 3,030,597, 4–17–62, Cl. 336—92.

Plana, Renato, to Edit dell Ing.-Renato Piana & C.S.A.S. Plastic strip for roof. 3,065,574, 11–27–62, Cl. 50—268.

Plana, Victor P.: *See*—
Barber, Franklin T., Waltman, and Plana. 3,070,586.

Pianfetti, John A., and P. L. Janey, to FMC Corp. Production of aliphatic phosphate esters. 3,020,303, 2–6–62, Cl. 260—461.

Pianka, Max, to The Murphy Chemical Co. Ltd. Thiophosphoric acid ester compounds. 3,018,215, 1–23–62, Cl. 167—22.

Piasecki Aircraft Corp.: *See*—
Vanderlip, Edward G. 3,053,480.

Piasecki, Raymond F., to The Thomas & Betts Co. Grounding clamp for armored conductors. 3,058,087, 10–9–62, Cl. 339—95.

Piasecki, Raymond F., to The Thomas & Betts Co. Conduit stub-up clamp. 3,061,254, 10–30–62, Cl. 248—74.

Piatek, Edward W.: *See*—
Frost, Raymond B., and Piatek. 3,015,502.

Piatek, Edward W., to Victaulic Co. of America. Pipe couplings. 3,054,629, 9–18–62, Cl. 285—373.

Piatscheck, John W. Resilient suspension for axle bearings and the like. 3,030,099, 4–17–62, Cl. 267—3.

Piazza, Gian F., to Brown, Boveri & Cie, Aktiengesellschaft. Switch for small direct currents. 3,041,473, 6–26–62, Cl. 307—88.5.

Piazze, Thomas E., to Continental Can Co., Inc. Three dimensional bag and method and apparatus for making same. 3,023,679, 3–6–62, Cl. 93—8.

Piazze, Thomas E., to Continental Can Co., Inc. Bag with drawstring closure. 3,029,853, 4–17–62, Cl. 150—11.

Plazze, Thomas E., to Continental Can Co., Inc. Container pouch and bib. 3,032,235, 5–8–62, Cl. 2—49.

Piazze, Thomas E., to Continental Can Co., Inc. Side seam sealing mechanism for bag making machines. 3,059,547, 10–23–62, Cl. 93—12.

Piazze, Thomas E., to Continental Can Co., Inc. Container filling and closing machine. 3,059,752, 10–23–62, Cl. 198—26.

Piazze, Thomas E., to Continental Can Co., Inc. Container filling and closing machine conveyor. 3,065,839, 11–27–62. Cl. 198—20.

Piazze, Thomas E., to Continental Can Co., Inc. Container filling and closing machine. 3,065,840, 11–27–62, Cl. 198—26.

Piazzolla, Giovanni, and C. Villa, to Brevitex Etablissement pour l'Exploration de Brevets Textiles. Weaving device for bands, belts and like articles. 3,064,689, 11–20–62, Cl. 139—124.

Pic Design Corp.: *See*—
Berg, Winfred M. 3,026,737.

Picanol, Jaime. Method of adjusting amplitude of sheds while weaving. 3,026,911, 3–27–62, Cl. 139—79.

Picanol, Jaime. Machines for cutting bevel, hypoid and similar gears. 3,044,365, 7–17–62. Cl. 90—5.

Picard, Martial, to C. E. Bouchard. Food cutting machine. 3,030,992, 4–24–62, Cl. 146—78.

Picardi, Joseph E., and J. C. Crowley, to North American Aviation, Inc. Self-compensating gyro apparatus. 3,029,-647, 4–17–62, Cl. 74—5.37.

Piccardo, Jack E., to Dorr-Oliver Inc. Diaphragm pump. 3,030,892, 4–24–62, Cl. 103—44.

Picotone, Nicholas A. Safety shock absorbing yielding seat. 3,027,131, 3–27–62, Cl. 248—429.

Piccoli, William A.: *See*—
Merkel, Robert L., and Piccoli. 3,041,363.

Piccoli, William A., to Dow Corning Corp. Ortho-disilyl benzenes. 3 050,542, 8–21–62, Cl. 260—448.2.

Pichler, Joseph R., and H. R. Tuck, to General Motors Corp. Refrigerating apparatus. 3,049,894, 8–21–62, Cl. 62—340.

Pichon, Joseph A. Method and apparatus for automatically adjusting the torque demand on a rotary motor. 3,029,374, 4–10–62, Cl. 318—475.

Pickard, Albert F., K. J. Klapka, and L. Catallo, to Wheel Trueing Tool Co. Rotary drill bit. 3,035,647, 5–22–62, Cl. 175—387.

Pickard, James K.: *See*—
Fay, James P., and Pickard. 3,029,318.

Pickard, James W., and E. M. MacDonald, to Continental Aviation and Engineering Corp. Bearing treating apparatus. 3,070,103, 12–25–62, Cl. 134—107.

Pickard, Maurice H.: *See*—
Steinberg, Howard, Hunter, Pickard, and Petterson. 3,048,614.

Pickard, Paul R.: *See*—
Chanaryn, Victor, Jeavons, and Pickard. 3,058,766.

Pickard, Porter L., Jr., and E. G. Schmieding, to Celanese Corp. of America. Purification of triaryl phosphates. 3,059,015, 10–16–62, Cl. 260—461.

Pickard, Rod. Inclosed powered fishing reel and rod. 3,064,-385, 11–20–62, Cl. 43—21.

Pickell, Edward B., to General Doors Corp. Spring clip means. 3,036,826, 5–29–62, Cl. 267—1.

Pickell, Marion W., to Kerr-McGee Oil Industries, Inc. Synthetic resin-in-water emulsion, process for preparing same, and process for sizing cellulose therewith. 3,055,853, 9–25–62, Cl. 260—29.6.

Pickels, Edward G., and G. K. Turner, to Beckman Instruments, Inc. Polarimeter apparatus. 3,041,921, 7–3–62, Cl. 88—14.

Picken, William. Pipe bending gauge. 3,060,587, 10–30–62, Cl. 33—174.

Pickens, John D.: *See*—
Evans, John L., Pickens, and Williamson. 3,060,148.

Pickens, Robert A., to The Bendix Corp. Control circuit for electromagnetic devices. 3,021,454, 2–13–62, Cl. 317—148.5.

Picker X-Ray Corp., Waite Mfg. Division., Inc.: *See*—
Carlson, Roland W. 3,048,698.
Furnas, Thomas C., Jr. 3,070,693.
Graves, Edward B. Re. 25,118.
Graves, Edward B. 3,043,957.
Graves, Edward B., and Bastin. 3,018,375.
Green, Donald T. 3,046,430.
Hura, Michael. 3,023,314.
Stickney, Joseph B., Lemmermann, Herring, and Carlson. 3,070,695.

Pickering, Alan H.: *See*—
Latham, Robert, Thompson, Sixsmith, Folkierski, and Pickering. 3,032,727.

Pickering Associates, Inc.: *See*—
Vitale, Paul J. 3,044,784.

Pickering & Co., Inc.: *See*—
Stanton, Walter O. 3,031,536.
Stanton, Walter O. 3,067,295.

Pickering, Lenox K., to The Seeburg Corp. Vending rack assembly. 3,039,653, 6–19–62, Cl. 221—133.

Pickering, Norman C., to Charles Denning Ltd. Electromagnetic timing devices. 3,045,160, 7–17–62, Cl. 318—128.

Pickering, Royce D., and H. J. Belt, to Eastman Kodak Co. Diffuse lamphouse for photographic projection printing. 3,033,980, 5–8–62, Cl. 240—47.

Pickering, Thomas A., P. S. Kasper, R. E. Arseneau, and R. F. Mann, to International Telephone and Telegraph Corp. PBX trunk hunting in electronic switching telephone systems. 3,038,969, 6–12–62, Cl. 179—18.

Pickering, Walter E. Steam generator. 3,025,381, 3–13–62, Cl. 219—38.

Pickert, Lynn I., to The New York Air Brake Co. Emergency brake valve with secondary power control. 3,022,121, 2–20–62, Cl. 303—82.

Pickert, Lynn I., to The New York Air Brake Co. Improved lubricating swab and seal. 3,033,580, 5–8–62, Cl. 277—117.

Pickert, Paul E.: *See*—
Bakala, Stanley W., Pickert, and Freeman. 3,033,642.

Pickett, Lamar: *See*—
Zisman, William A., and Pickett. 3,015,580.

Pickett, Montgomery B.: *See*—
Arnold, Howard N., Pokorny, and Pickett. 3,030,913.

Pickett, Montgomery B., to G. S. Blakeslee & Co. Means for and method of painting. 3,042,547, 7–3–62, Cl. 117—102.

Pickle, Linwood A.: *See*—
Berger, Richard K., Nicholas, Pickle, Soumerai, and Van Neerenhoven. 3,033,809.

Pickles, John, to Carding Specialists (Canada) Ltd. Pressure rollers. 3,023,648, 3–6–62. Cl. 80—31.1.

Pickles, Joseph, to Ferro Stamping Co. Slideless seat support and adjusting device. Re. 25,293, 12–4–62, Cl. 248—394.

Pickles, Joseph, to Ferro Stamping Co. Door lock. 3,020,-074, 2–6–62, Cl. 292—280.

Pickles, Joseph, to Ferro Stamping Co. Seat supporting and adjusting mechanism. 3,022,035, 2–20–62, Cl. 248—395.

Pickles, Joseph, to Ferro Stamping Co. Gear box. 3,048,051, 8–7–62, Cl. 74—425.

Pickles, Joseph, to Ferro Stamping Co. Safety door lock. 3,049,372, 8–14–62, Cl. 292—216.

Pickles, Joseph, to L. W. Menzimer. Lock. 3,065,013, 11–20–62, Cl. 292—280.

Pickles, Joseph, to Ferro Stamping Co. Friction coupled transmission. 3,067,627, 12–11–62, Cl. 74—425.

Picklesimer, Marion L.: *See*—
Heestand, Richard L., and Picklesimer. 3,046,650.

Pickrell, Hugh E., Jr., to R.P.T.Z. Patco Inc. Cargo vessel. 3,033,150, 5–8–62, Cl. 114—73.

Pid Corp.: *See*—
Leach, Sam L. 3,028,785.

Pidacks, Charles: *See*—
Pruess, Louis M., Pidacks, and Rigler. 3,047,470.

Pidhayny, Denny D., E. Lakatos, and E. M. Goodell, to Thompson Ramo Wooldridge Inc. Craft protective system. 3,052,882, 9–4–62, Cl. 343—5.

Piechowski, Keith A. to Brass Ram Corp. Game ball. 3,053,539, 9–11–62, Cl. 273—230.

Piekarski, Gottfried, and H. Reinecke, to Wacker-Chemie G.m.b.H. Process for simultaneous oxidation and esterification of unsaturated fatty acids. 3,031,480, 4–24–62, Cl. 260—405.

Piel, Alfred J. Wheel block. 3,026,973, 3–27–62, Cl. 188—32.

Piel, Alfred J. Liquid applicator for animal usage. 3,062,187, 11–6–62, Cl. 119—157.

Pien, Hsia S., to Baldwin-Lima-Hamilton Corp. Indirect measurement of vertical forces. 3,059,710, 10–23–62, Cl. 117—136.

Pien, Hsia-Si, to Baldwin-Lima-Hamilton Corp. Load cell. 3,037,178, 5–29–62, Cl. 338—5.

Pieper, Arthur O. Strand or yarn guide. 3,032,294, 5–1–62, Cl. 242—157.

Pieper, Arthur O. Screw machine chuck. 3,061,322, 10–30–62, Cl. 279—123.

Pieper, Chester R.: *See*—
Judson, Barney, and Pieper. 3,041,221.

Pieper, Heinz: *See*—
Spolders, Rudolf, Breuing, and Pieper. 3,060,015.

Pieper, Walter R. C. Signalling arrangement usable for indicating the position of a parking brake at the will of the operator. 3,052,870, 9–4–62, Cl. 340—69.

Pieper, Wilhelm, Braunschweiger Farbenwerke, & Co. K.-G.: *See*—
Gerber, Karl H. 3,032,815.

Pieplow, Hans-Werner, to M. Grundig. Magnetic pick-up heads with replaceable pole-pieces. 3,027,431, 3–27–62, Cl. 179—100.2.

Pieplow, Hans-Werner, H. Haas, and H. Harnisch, to M. Grundig. Sound tape apparatus. 3,035,786, 5–22–62, Cl. 242—55.13.

Pierce, Charles W.: *See*—
Bruce, Alastair D., and Pierce. 3,020,874.

Pierce, Chester J., Jr., to Atlas General Industries, Inc. Device for feeding and folding box blanks. 3,052,165, 9–4–62, Cl. 93—49.

Pierce, Chester J., Jr., to Atlas General Industries, Inc. Corner construction for folding boxes. 3,053,429, 9–11–62, Cl. 229—32.

Pierce, Comer C. Automatic wheel balancing device. 3,063,754, 11–13–62, Cl. 301—5.

Pierce, David W., and C. H. Wexler, to United States Steel Corp. System for measuring the length of rolling-mill product. 3,050,857, 8–28–62, Cl. 33—141.

Pierce, Earl R., to General Motors Corp. Variable displacement pumping mechanism. 3,070,020, 12–25–62, Cl. 103—9.

Pierce, Earl W., to General Motors Corp. Igniter plug. 3,017,530, 1–16–62, Cl. 313—11.5.

Pierce, Earl W., to General Motors Corp. Fixture for furnace brazing spark plugs. 3,053,214, 9–11–62, Cl. 113—99.

Pierce, Edwin B.: *See*—
Fahey, Edward J., and Pierce. 3,042,375.

Pierce, Elvin F. Speed adapters for phonographs. 3,029,079, 4–10–62, Cl. 274—9.

Pierce, Elwood K., Jr.: *See*—
Watts, John D., and Pierce. 3,051,513.

Pierce Governor Co., Inc., The: *See*—
Eiler, Harold. 3,040,181.

Pierce, Harry F., to Dura-Design Plastics Ltd. Method of forming casts made with plastic foam material. 3,048,169, 8–7–62, Cl. 128—90.

Pierce, James E., and G. C. Reish, to The Dow Chemical Co. Extrusion die. 3,059,277, 10–23–62, Cl. 18—14.

Pierce, John B., Foundation: *See*—
Bailey, George B. 3,018,639.
Bailey, George B., and Rapp. 3,055,347.
Stolwijk, Jan A. J. 3,022,664.

Pierce, John H.: *See*—
Banner, Robert G., and Pierce. 3,039,841.

Pierce, John R.: *See*—
Cutler, Cassius C., and Pierce. 3,057,579.

Pierce, John R., to Bell Telephone Laboratories, Inc. Helix wave guide. 3,016,503, 1–9–62, Cl. 333—95.

Pierce, John S.: *See*—
Geschickter, Charles F., Pierce, Chen, and Reid. 3,015,657.
Geschickter, Charles F., Pierce, and Reid. 3,056,792.
Geschickter, Charles F., Reid, Pierce, and Chen. 3,037,983.

Pierce, Leonard, Jr., and P. H. Miller, to Union Carbide Corp. Process for preparing silicon-containing fluids. 3,027,394, 3–27–62, Cl. 260—448.8.

Pierce, Maurice R. Optical navigational device. 3,022,703, 2–27–62, Cl. 88—2.7.

Pierce, Maurice R., and J. S. Fassero. Optical navigational device. 3,046,830, 7–31–62, Cl. 88—2.7.

Pierce, Neal M.: *See*—
Sheppard, Kalin I., and Pierce. 3,047,217.

Pierce, Norton T., to Arthur D. Little, Inc. Article handling apparatus. 3,024,944, 3–13–62, Cl. 221—11.

Pierce, Norwin C., and D. F. Ryder, to E. I. du Pont de Nemours and Co. Apparatus for preparation of condensation polymers. 3,057,702, 10–9–62, Cl. 23—285.

Pierce, Paul, Jr., to Pierce Wrapping Machine Co. Positioning table. 3,064,505, 11–20–62, Cl. 77—63.

Pierce, Roger J., and H. T. Abrams, to Collins Radio Co. Intensity comparing system for determining fraction of travel time to a radiating source. 3,020,397, 2–6–62, Cl. 250—2.

Pierce, Russell F., and J. S. Ferguson, to Union Carbide Corp. Apparatus for producing tubing. 3,052,283, 9–4–62, Cl. 156—516.

Pierce, Samuel, to Hartman Trailer Mfg. Co., Inc. Horse trailer. 3,053,224, 9–11–62, Cl. 119—7.

Pierce & Stevens Chemical Corp.: *See*—
Duffin, Robert K. 3,025,062.

Pierce, Wallace B., to Northrop Corp. Flight simulator and test facility. 3,064,471, 11–20–62, Cl. 73—116.

Pierce, William C., to Warner Electric Brake & Clutch Co. Magnetic clutch with stationary winding. 3,055,470, 9–25–62, Cl. 192—21.5.

Pierce Wrapping Machine Co.: *See*—
Pierce, Paul, Jr. 3,064,505.

Pierceall, Lewis. Electrical brush contouring and seating tool. 3,040,484, 6–26–62, Cl. 51—187.

Pierdet, Andre: *See*—
Nomine, Gerard, Bertin, Bucourt, and Pierdet. 3,055,885.
Nomine, Gerard, Bucourt, and Pierdet. 3,057,887.
Velluz, Leon, Nomine, Pierdet, Rousseau, and Penasse. 3,065,140.

Piergiovanni, Augie A. Mailbox signal. 3,017,073, 1–16–62, Cl. 232—35.

Pieri, Edmond D., Jr. Building structure. 3,054,483, 9–18–62, Cl. 189—34.

Pieroh, Ernst-Albrecht, H. Werres, and H.-E. Freund, to Schering A.G. Zinc N-methyldithiocarbamate nematocide. 3,048,520, 8–7–62, Cl. 167—22.

Pieronek, Valentine R., and P. A. Fritsche, to Eastman Kodak Co. Receptacle for photographic prints and negatives. 3,030,004, 4–17–62, Cl. 229—72.

Pierotti, Charles T., to Ajax Iron Works. Stuffing box. 3,054,619, 9–18–62, Cl. 277—59.

Pierotti, Gino J.: *See*—
Hood, George C., Smith, and Pierotti. Re. 25,114.

Pierpoint, Harold W. Grain drier. Re. 25,230, 8–21–62, Cl. 34—55.

Pierrat, Michel A., to Craig Systems, Inc. Automatic guy tensioning device for erection of masts. 3,033,529, 5–8–62, Cl. 254—173.

Pierre, Simon. Sheet-metal handling apparatus. 3,044,819, 7–17–62, Cl. 294—88.

Pierrot, André, and Y. Lescroel, to Lignes Telegraphiques et Telephoniques. Ferromagnetic materials having a rectangular hysteresis cycle. 3,031,405, 4–24–62, Cl. 252—62.5.

Pierrot, Andre, and Y. Lescroel, to Lignes Telegraphiques et Telephoniques. Magnetic materials of the high permeability ferrite type. 3,057,802, 10–9–62, Cl. 252—62.5.

Pierrot, André, Y. Lescroel, and N. Bernard, to International Telephone and Telegraph Corp. Dielectric materials and processes of manufacturing same. 3,062,667, 11–6–62, Cl. 106—39.

Pierrot, Andre, Y. Lescroel, and N. Bernard, to International Telephone and Telegraph Corp. Dielectric materials and processes of manufacturing same. 3,062,668, 11–6–62, Cl. 106—39.

Pierrot, Francois: *See*—
Collardeau, Georges, and Pierrot. 3,065,199.

Piersol, Jay L., to Armstrong Cork Co. Hydroxide reinforced rubbers and method of making same. 3,058,945, 10–16–62, Cl. 260—41.5.

Pierson, Alma. Corset structure. 3,056,410, 10–2–62, Cl. 128—432.

Pierson, Everette A. Quick detachable device for a sling. 3,020,080, 2–6–62, Cl. 294—76.

Pierson, Faye M.: *See*—
Wilkinson, John R. 3,024,873.

Pierson, Frederick M.: *See*—
Harden, Eldon A., and Pierson. 3,039,541.

Pierson, Frederick M., to International Harvester Co. Cylinder mounting for tail wheel of plows. 3,065,803, 11–27–62, Cl. 172—413.

Pierson, Thomas J.: *See*—
Wilkinson, John R. 3,024,873.

Pierson, Tobie W. Screen, projector, and sign arrangement for outdoor advertising. 3,069,970, 12–25–62, Cl. 88—24.

Pierson, Vaughn F., to Daystrom Inc. Mounting arrangement for a thermometer or the like. 3,066,534, 12–4–62, Cl. 73—363.7.

Piet, Jan G.: *See*—
Kohler, Jacob W. L., Rinia, and Piet. 3,045,982.

Pietenpol, William J.: *See*—
Hunt, Robert E., Ingraham, and Pietenpol. 3,066,053.

Pieters, Servaas D. Luminous advertising and display means. 3,058,245, 10–16–62, Cl. 40—106.21.

Pietrangeli, Gene J., and R. S. Rae, to United States of America, Navy. Cascade diffuser. 3,023,571, 3–6–62, Cl. 60—35.6.

Pietrangeli, James D., and M. D. Doran. Book constructions. 3,028,178, 4–3–62, Cl. 281—16.

Pietraszewski, Boleslaw: *See*—
Mamo, Anthony C., and Pietraszewski. 3,058,427.

Pietrorola, Dominic. Dump vehicle. 3,058,779, 10–16–62, Cl. 298—6.

Pietrusza, Edward W., G. A. Nesty, and R. Pinter, to Allied Chemical Corp. Polymerization of caprolactam with amino acids and the products therefrom. 3,037,002, 5–29–62, Cl. 260—78.

Pietrusza, Edward W., R. E. Brown, and M. B. Mueller, to Allied Chemical Corp. Cyanobenzyl amine. 3,050,544, 8–21–62. Cl. 260—465.

Pietsch, Helmut, R. Kohler, and W. Stein, to Henkel & Cie. G.m.b.H. Heat hardenable composition comprising an alkyd resin, an epoxy polyester resin, and a dipentene: maleic acid anhydride adduct and process of preparing same. 3,052,647, 9–4–62, Cl. 260—45.4.

Pietsch, Joseph A., to General Electric Co. Thermoelectric assembly. 3,016,715, 1–16–62, Cl. 62—3.

Pietsch, Joseph A., to General Electric Co. Thermoelectric air conditioning arrangement. 3,019,609, 2–6–62, Cl. 62—3.

Pietsch, Joseph A., to General Electric Co. Thermoelectric assembly. 3,022,360, 2–20–62, Cl. 136—4.

Pietsch, Joseph A., to General Electric Co. Removable filter for air conditioning apparatus. 3,040,501, 6–26–62, Cl. 55—500.

Pietsch, Leonard C., to Union Tank Car Co. Mill hotbed. 3,017,983, 1–23–62, Cl. 198—21.

Pietsch, Leonard C., to Union Tank Car Co. Repeater mill arrangement. 3,039,335, 6–19–62, Cl. 80—52.

Piety, Raymond G.: *See*—
Lindsey, Joe F., and Piety. 3,070,777.

Pietzsch, Kurt F. Catalytic converter. 3,043,651, 7–10–62, Cl. 23—1.

Pifer, Durward L. Marine propulsion mechanism. 3,035,409, 5–22–62, Cl. 60—35.5.

Pifer, Marion J., to Sylvania Electric Products Inc. U.H.F. loop antenna. 3,051,952, 8–28–62, Cl. 343—741.

Pigage, Robert F.: *See*—
Glesmann, Louis G., Jr., Pedersen, and Pigage. 3,036,362.

Pigan, Edward A.: *See*—
Morstis, Christy J., Ichikawa, and Pigan. 3,023,390.

Pigeot, Robert A., to Entreprises Campenon Bernard. Process for the production of lined pre-stressed concrete hollow bodies. 3,056,183, 10–2–62, Cl. 25—154.

Pigeroulet, Jean, to Societe Industrielle de Mecanique Appliquee S.I.G.M.A. Coupling for fuel injection pumps. 3,062,027, 11–6–62, Cl. 64—24.

Pigg, Jalmer, Sr. Positioner for a child being X-rayed. 3,051,832 8–28–62, Cl. 250—050.

Pigg, Leo: *See*—
Early, Richard L., Lauck, Pigg, and Sorbie. 3,030,564.

Pigman, Marcus E., to Ford Motor Co. Spiral muffler. 3,062 317, 11–6–62, Cl. 181—66.

Pihl, George E., to Technology Instrument Corp. of Acton. Compressor amplifier. 3,015,782, 1–2–62, Cl. 330—145.

Pihl, George E., to Technology Instrument Corp. of Acton. Dissipation factor meter. 3,026,474, 3–20–62, Cl. 324—60.

Piilola, Calvin E., to McGraw-Edison Co. Shirt-folding mechanism with sleeve end-controlling arm. 3,055,563, 9–25–62, Cl. 223—37.

Piirma, Aleksander, to The Goodyear Tire & Rubber Co. Preparation of polyesters using titanium-containing catalysts. 3,047,515, 7–31–62, Cl. 260—2.

Pike, Edward W.: *See*—
Little, David S., Pike, and Melchior. 3,059,477.

Pike, Herbert J., Jr., to Allied Chemical Corp. Crimping process. 3,031,734, 5–1–62, Cl. 28—72.

Pike, Herbert J., Jr., to Allied Chemical Corp. Crimp range control device. 3,037,260, 6–5–62, Cl. 28—1.

Pike, Nathan R.: *See*—
Monti, Anthony, and Pike. 3,042,668.

Pike, Ronald M.: *See*—
Bailey, Donald L., and Pike. 3,020,302.

Pike, Ronald M., to Union Carbide Corp. Aryl borate addition compounds of amino hydrocarbon silicon compounds. 3,013,299, 1–23–62, Cl. 260—448.2.

Pike, Ronald M., to Union Carbide Corp. Ammonia catalyzed process for producing hydroxy-silicon compounds. 3,046,293, 7–24–62 Cl. 260—448.2.

Pike, Ronald M., and E. L. Morehouse, to Union Carbide Corp. Organosilicon compounds and process for producing same. 3,033 815, 5–8–62, Cl. 260—46.5.

Pike, Roscoe A., to Union Carbide Corp. Process of making cyanoalkylsilanes. 3,018,300, 1–23–62, Cl. 260—448.2.

Pike, Roscoe A., to Union Carbide Corp. Process of making cyanoalkylsilanes. 3,020,301, 2–6–62, Cl. 260—448.2.

Pike, Roscoe A., to Union Carbide Corp. Dimethyl silicone elastomers crosslinked through cyano groups and process therefor. 3,026,282, 3–20–62, Cl. 260—37.

Pike, Roscoe A., to Union Carbide Corp. Process of making cyanoalkylsilanes. 3,030,403, 4–17–62, Cl. 260—448.2.

Pike, Roscoe A., to Union Carbide Corp. Process of making cyanoalkylsilanes. 3,046,292, 7–24–62, Cl. 260—448.2.

Pike, Roscoe A., to Union Carbide Corp. Primary amine catalyzed process for producing hydroxysilicon compounds. 3,046,294. 7–24–62. Cl. 260—448.2.

Pike, Roscoe A., to Union Carbide Corp. Stabilized silicone elastomers and process for their production. 3,054,769, 9–18–62. Cl. 260—37.

Pike, Roscoe A., to Union Carbide Corp. Ester solvents and basic catalysts employed in an addition process. 3,057,902, 10–9–62, Cl. 260—448.2.

Pike, Roscoe A., to Union Carbide Corp. Stabilized silicone elastomers and process for their production. 3,068,194, 12–11–62, Cl. 260—45.9.

Pike, Terence, to D. Napier & Sons Ltd. Fluid seals between rotating parts. 3,034,797, 5–15–62, Cl. 277—28.

Pike, Wilson C. Switch construction. 3,052,774, 9–4–62, Cl. 200—67.

Pike, Winthrop S., to Radio Corp. of America. Reversible counter. 3,030,611, 4–17–62, Cl. 340—174.

Pikl, Josef, to E. I. du Pont de Nemours and Co. Process for oxidizing leuco triphenylmethane compounds. 3,032,561, 5–1–62, Cl. 260—593.

Pilch, John S., Trencher turret rotating apparatus. 3,042,236, 7–3–62, Cl. 214—151.

Pilcher, David D., to Lundia, Swain & Myers Inc. Shelving structure with adjustable shelves. 3,039,621, 6–19–62, Cl. 211—147.

Pilcher, Robert W.: *See*—
Ecklund, Oscar F., and Pilcher. 3,066,063.

Pile, Benjamin D. Collapsible support structure. 3,037,215, 6–5–62, Cl. 5—111.

Pile, John F.: *See*—
Nelson, George, and Pile. 3,043,642.

Pilette, Thomas G., Jr. Foldable shipping container. 3,063,616, 11–13–62, Cl. 229—23.

Pilgrim, Frederick J.: *See*—
Hammer, Henry F., Jarowski, and Pilgrim. 3,036,120.

Pilia, Frank J., to Union Carbide Corp. Gas shielded arc welding torch. 3,047,715, 7–31–62. Cl. 219—127.

Pilia, Frank J., and L. J. O'Brien, to Union Carbide Corp. Welding machine and process. 3,065,330, 11–20–62, Cl. 219—124.

Piliero, James, to The Englander Co., Inc. Spiral compression spring and method and machine for making same. 3,043,347, 7–10–62, Cl. 140—101.

Pilitz, Harry: *See*—
Neal, Frank, and Pilitz. 3,065,693.

Pilkington Bros. Ltd.: *See*—
Milne, Alexander J., and Parry. 3,029,152.

Pilkington, Victor W., and W. M. Little; said Little assor. of ½ to Leyland Motors Ltd. Control of passenger service vehicles. 3,068,952, 12–18–62, Cl. 180—82.

Pilkington, William C., Jr., W. S. McDonald, and W. H. Wells, to United States of America, Army. Satellite spin control. 3,030,049, 4–17–62, Cl. 244—1.

Pilling, George P., & Son Co.: *See*—
Gulden, Raymond O. 3,062,042.

Pilliod Cabinet Co., The: *See*—
Pilliod, Thomas J. 3,065,508.

Pilliod, Thomas J., to The Pilliod Cabinet Co. Miter joint connector. 3,065,508, 11–27–62, Cl. 20—92.

Pillnik, Walter F., to American Can Co. Metal container. 3,055,539, 9–25–62, Cl. 220—54.

Piloton, Roger L., to Union Carbide Corp. Production of hafnium-free zirconium compounds. 3,058,801, 10–16–62, Cl. 23—23.

Piloton, Roger L., to Union Carbide Corp. Process for recovering tungsten and vanadium values from organic solvents. 3,067,008, 12–4–62, Cl. 23—140.

Piloton, Roger L., and G. E. Crawley, Jr., to Union Carbide Corp. Process of separating tantalum and columbium values. 3,062,613, 11–6–62, Cl. 23—23.

Pillsbury Co., The: *See*—
Forkner, John H. 3,020,164.
Forkner, John H. 3,057,736.
Forkner, John H. 3,057,737.
Forkner, John H. 3,057,738.
Forkner, John H. 3,057,739.
Genske, Warren L. 3,039 878.
Perrozzi, Joseph R., Swanson, Walker, and Cheng. 3,038,808.
Reid, Francis R. 3,048,314.
Turpin, Charles H. 3,040,963.

Pilo, Claes-Wilhelm, and S. W. Dahlbeck; said Dahlbeck assor. to said Pilo. Means for the distribution of a liquid on rotating surfaces. 3,034,730, 5–15–62, Cl. 239—222.

Pilot Distributing Co.: *See*—
Sudeikis, Stanley I. 3,051.519.
Sudeikis Stanley I. 3,061.333.

Piloty, Robert, to Stifterverband fur Die Deutsche Wissenschaft. Electronic program-controlled data-processing installation. 3,018,472, 1–23–62. Cl. 340—172.5.

Pilskär, Inge G., to Telefonaktiebolaget LM Ericsson. Method of fastening wire to a soldering tag. 3,022,805, 2–27–62, Cl. 140—93.

Piltz, Franklin, and R. L. Wright, Jr., to Westinghouse Electric Corp. Switching circuit for controlling shaker hammer. 3,042,224, 6–19–62, Cl. 318—132.

Pilz, William P., Jr.: *See*—
Mittelstadt, Norbert F., and Pilz. 3,015,849.

Pimbley, George H., to Purex Corp., Ltd. Process and composition for producing aluminum surface conversion coatings. 3,066,055, 11–27–62, Cl. 148—6.27.

Pimentel, Morris, to Universal Multi-Lingual Enlightenment, Inc. Dismantleable translation book and method of using same. 3,052,043, 9–4–62, Cl. 35—35.

Pinard, Jacques A.: *See*—
Beaujard, Louis, Maeder, and Pinard. 3,048,031.

Pinckaers, Balthasar H., to Minneapolis-Honeywell Regulator Co. Condition sensing apparatus. 3,024,390, 3–6–62, Cl. 317—148.5.

Pinckaers, Balthasar H., to Minneapolis-Honeywell Regulator Co. Electric apparatus. 3,047,722, 7–31–62, Cl. 250—83.6.

Pinckaers Balthasar H., to Minneapolis-Honeywell Regulator Co. Semiconductor control apparatus. 3,065,388, 11–20–62, Cl. 317—148.5.

Pinckney, Milton W., to The De Laval Separator Co. Removal of protein from cheese whey. 3,066,133, 11–27–62, Cl. 260—120.

Pinder, James M., to General Electric Co. Clothes drying machine. 3,029,525, 4–17–62, Cl. 34—75.

Pinder, James M., to General Electric Co. Laundry machine with suction means for removing moisture. 3,050,975, 8–28–62, Cl. 68—20.

Pindzola, Daniel, W. Nazarewicz, and S. C. Beesch, to Chas. Pfizer & Co., Inc. Air filter. 3,056,247, 10–2–62, Cl. 55—97.

Pine, Robert M., to Uarco, Inc. Inking mechanism for imprinters. 3,044,397, 7–17–62, Cl. 101—367.

Pineau, Edmund L.: *See*—
Williams, John D., and Pineau. 3,053,287.

Pinel, Jacques P.: *See*—
Leboutet, Hubert P., and Pinel. 3,031,596.

Pines Engineering Co., Inc.: *See*—
Streit, Clarence T. 3,017,917.

Pines, Robert M.: *See*—
Gussman, Hyman W., and Pines. 3,063,944.

Pinet, Andre E., to Automatic Electric Laboratories, Inc. System for transmitting special signals for pulse type telecommunications systems. 3,060,268, 10–23–62, Cl. 179—15.

Pingeon, Andre: *See*—
Aquillon, Andre, and Pingeon. 3,036,479.

Pink, Chester A., to The Englander Co., Inc. Folding headboard for convertible bed unit. 3,055,018, 9–25–62, Cl. 5—2.

Pink, Chester A., and E. H. Thierfelder, to The Englander Co., Inc. Convertible corner bed ensemble. 3,058,123, 10–16–62, Cl. 5—2.

Pinke, August H.: *See*—
Hudson, Robert C., Pinke, and Meeker. 3,023,969.

Pinke, August H., and J. E. Oys, to H. D. Hudson Mfg. Co. Spraying apparatus. 3,018,927, 1–30–62, Cl. 222—333.

Pinkerton, Le F.: *See*—
Northrup, Milton G., and Pinkerton. 3,046,717.

Pinkerton, Henry L.: *See*—
Savage, Frank K., Pinkerton, and Graham. 3,054,736.

Pinkerton, Richard C.: *See*—
Kobetz, Paul, and Pinkerton. 3,028,318.
Kobetz, Paul, and Pinkerton. 3,028,319.
Kobetz, Paul, and Pinkerton. 3,028,320.
Kobetz, Paul, and Pinkerton. 3,028,322.
Kobetz, Paul, and Pinkerton. 3,028,323.
Kobetz, Paul, and Pinkerton. 3,068,261.

Pinkerton, Richard C., to Ethyl Corp. Electrolytic process. 3,028,325. 4–3–62. Cl 204—72.

Pinkham, Douglas R., and J. W. Knights. Aluminum pack basket. 3,064,867, 11–20–62, Cl. 224—5.

Pinkham, George A. Garment hangers. 3,044,672, 7–17–62, Cl. 223—91.

Pinkham, Jesse R.: *See*—
Phillips, Malcolm E., Jr., and Pinkham. 3,063,411.

Pinkham, Jesse R., to American Machine & Foundry Co. Web splicer for cigarette machine. 3,030,043, 4–17–62, Cl. 242—58.3.

Pinkham, Jesse R., to American Machine & Foundry Co. Foraminous rotor cigarette rod former. 3,034,514, 5–15–62, Cl. 131—84.

Pinkham, Jesse R., and M. E. Phillips, Jr., to American Machine & Foundry Co. Cigarette making machine for mouthpiece cigarettes. 3,067,754, 12–11–62, Cl. 131—21.

Pinkley, Clyde W.: *See*—
Francis, Kenneth E., and Pinkley. 3,039,046.
Smith, Chester L., and Pinkley. 3,023,376.

Pinkley, Clyde W. Nuclear magnetic resonance measuring and control device. 3,039,049, 6–12–62, Cl. 324—5.

Pinkney, Agnes C. No-tie bib. 3,016,544, 1–16–62, Cl. 2—49.

Pinkwater, Joseph M., to Monroe Fabricators, Inc. Air pump for inflatable structures. 3,068,494, 12–18–62 Cl. 5—348.

Pinnes, Robert W., to United States of America, Navy. Multiunit turbojet engine. 3,020,711, 2–13–62, Cl. 60—35.6.

Pino, John S. Mason's corner level. 3,038,258, 6–12–62, Cl. 33—85.

Pino, Piero: *See*—
Natta, Giulio, Pino, and Mazzanti. 3,037,972.

Pino, Piero, to Lonza Electric and Chemical Works, Ltd. Preparation of methyl acrylate. 3,060,228, 10–23–62, Cl. 260—486.

Pinsley, Edward: *See*—
Davis, Jack W., and Pinsley. 3,052,088.

Pinson, Ellis R., Jr.: *See*—
Figdor, Sanford K., Pinson, Bloom, and Laubach. 3,045,-010.
Laubach, Gerald D., and Pinson. 3,016,383.

Pinson, Ellis R., Jr., E. J. Agnello, and G. D. Laubach, to Chas. Pfizer & Co., Inc. 17β-(dihydroxypropanoyl)-substituted steroids. 3,033,747, 5–8–62, Cl. 167—65.

Pinson, Ellis R., Jr., E. J. Agnello, and G. D. Laubach, to Chas. Pfizer & Co., Inc. 21-aminomethyl-pregnenes. 3,033,-873, 5–8–62, Cl. 260—397.45.

Pinson, Ellis R., Jr., E. J. Agnello, and G. D. Laubach, to Chas. Pfizer & Co., Inc. 17β-propenoyl steroids and process for preparing same. 3,033 874, 5–8–62, Cl. 260—397.45.

Pinta, John G., F. A. Di Pasquale, and J. Peasley, to Reliable Packing Co. Machines for stripping and dehairing hog carcasses. 3,021,557, 2–20–62, Cl. 17—17.

Pintarelli, Ralph. Pierced earring having a wire loop pivotally journaled in the sides of a slot in the ring body. 3,033,010, 5–8–62, Cl. 63—12.

Pintauro, Nicholas D.: *See*—
Lister, Bruce A., and Pintauro. 3,041,179.

Pintauro, Nicholas D., and B. J. Hall, to General Foods Corp. Gelatin dessert composition and method of preparing the same. 3,067,036, 12–4–62, Cl. 99—130.

Pintell, Robert H., to Intron International, Inc. Sine-wave generator. 3,026,486, 3–20–62, Cl. 331—113.

Pinter, George S. Concrete slab and supporting base. 3,066,-448, 12–4–62, Cl. 50—80.

Pinter, Rudolph: *See*—
Pietruszka, Edward W., Nesty, and Pinter. 3,037,002.

Pinto, Julian B., to Consolidated Electrodynamics Corp. Test apparatus. 3,024,957, 3–13–62, Cl. 226—49.

Pinto, Peter J.: *See*—
Leal, Bernardine J., and Pinto. 3,042,531.

Pinton, Pierre C., to Compagnie des Machines Bull (Societe Anonyme). Electro magnetic actuating means. 3,018,035, 1–23–62, Cl. 234—108.

Pio, Emerick C., to Owens-Corning Fiberglas Corp. Machine for wrapping and adhering cloth to pipe insulation. 3,054,-440, 9–18–62, Cl. 156—443.

Pioch, Robert J. Depositing machine. 3,040,381, 6–26–62, Cl. 18—26.

Pioneer Electric & Research Corp., The: *See*—
Neiswinter, James T. 3,033,929.

Pioneer Gen-E-Motor Corp.: *See*—
Siwek, Stanley Z. 3,055,351.

Pioneer Heddle and Reed Co., Inc.: *See*—
Suhr, Robert N. 3,064,688.

Pioneer Industries, Inc.: *See*—
Cotey, Gus. 3,028,013.

Pioneer Mail Chute Corp.: *See*—
Taggart, John J. 3,059,841.

Pioneer Rubber Co., The: *See*—
Loomis, Lester L. 3,023,432.

Pioneer Sample Book Co.: *See*—
Smiler, Jacob M. 3,061,086.

Pioneer Specialty Co.: *See*—
Paluszkiewicz, Richard S., and Geyer. 3,042,416.

Piorunneck, Heinz, to Gorn Electric Co., Inc. Printed tape cable connector. 3,070,771, 12–25–62, Cl. 339—174.

Piorvit S.r.l.: *See*—
Brass, Michele. 3,065,749.

Piot, Paul: *See*—
Berthon, Lucien, Leveque, and Piot. 3,020,585.
Leveque, Marcel, and Piot. 3,031,717.

Piotrowski, Henry, and G. E. Van Gils, to The General Tire & Rubber Co. Epoxide/polyacrolein reaction products, their preparation and their use. 3,055,854, 9–25–62, Cl. 260—29.6.

Piotrowski, Joseph L., and R. F. Currier, to J. F. McElwain Co., division of Melville Shoe Corp. Apparatus for automatically cleaning and spraying the sole of a shoe. 3,025,-542, 3–20–62, Cl. 12—18.5.

Piotrowski, Tadeusz V., to Simon-Carves Ltd. Turntables. 3,060,865, 10–30–62, Cl. 104—130.

Pipe, John, to Steelcase Inc. Rack structure. 3,021,960, 2–20–62, Cl. 211—177.

Pipe, John, to Steelcase, Inc. Drawer suspension slide. 3,050,348, 8–21–62, Cl. 308—3.8.

Pipe, John, to Steelcase Inc. Knock down cabinet. 3,065,-038, 11–20–62. Cl. 312—263.

Pipe Machinery Co., The: *See*—
Herbkersman, Earle C. 3,055,515.
McKay, John G. 3,055,245.
Sawdey, Neil T. 3,039,181.

Piper, Douglas E., to Eastman Kodak Co. Photographic emulsions sensitized with alkylene oxide polymers and quaternary ammonium salts. 3,017,271, 1–16–62, Cl. 96—107.

Piper, Duane J.: *See*—
Holmes, Charles R., and Piper. 3,054,046.

Piper, Jack R., to Bell & Gossett Co. Rotary pump. 3,056,-356, 10–2–62, Cl. 103—160.

Piper, John W., and W. H. Fryer, to Vickers-Armstrongs (Aircraft) Ltd. Means for controlling guided missiles. 3,043,-197, 7–10–62, Cl. 89—1.7.

Piper, Roger D., to United States of America, Atomic Energy Commission. Method of producing uranium metal by electrolysis. 3,052,611, 9–4–62, Cl. 204—1.5.

Pipes, Albert W.: *See*—
Arnold, Ernest A., and Pipes. 3,019,715.

Pipes, George R., to Eaton Mfg. Co. Torsional vibration dampener. 3,022,679, 2–27–62, Cl. 74—574.

Pippenger, John J., to Double A Products Co. Pressure reducing valve. 3,022,794, 2–27–62. Cl. 137—116.3.

Pippenger, John J., to Double A Products Co. Oscillating valve. 3,040,768, 6–26–62, Cl. 137—330.

Piquerez, Ervin. Waterproof watchcase with moisture indicator. 3,052,083, 9–4–62, Cl. 58—88.

Piraino, Frank F.: *See*—
Hanson, Robert P., and Piraino. 3,029,190.

Pircio, Anthony W.: *See*—
Kuna, Samuel, and Pircio. 3,024,166.
Kuna, Samuel, and Pircio. 3,036,955.
Kuna Samuel, and Pircio. 3,051,622.

Pirelli Societa per Azioni : *See*—
Barassi, Carlo, 3,018,810.
Barassi, Carlo, 3,034,553.
Bottasso, Carlo, Amici, and Maiocchi, 3,047,041.
Maiocchi, Luigi, 3,058,509.
Maiocchi, Luigi, 3,062,258.
Palmieri, Nicola, 3,049,581.
Palmieri, Nicola, 3,051,770.
Priaroggia, Paolo G, 3,017,306.
Priaroggia, Paolo G., and Siegfried, 3,052,253.
Sarracino, Marcello, 3,063,228.
Vanzo, Marcello, Giletta, and Pacciarini, 3,035,629.
Vanzo, Marcello, Giletta, and Pacciarini, 3,453,308.

Pirhofer, Daniel J. J. : *See*—
Schultz, Blaine H., Spiece, and Pirhofer, 3,062,989.

Pirhofer, Daniel J. J., to McGraw-Edison Co. Automatic control of capacitor switching. 3,063,003, 11–6–62, Cl. 223—106.

Pirok, John N., and J. H. Trammell, to Chicago Bridge & Iron Co. Self-priming siphon drain. 3,019,806, 2–6–62, Cl. 137—142.

Piros, John J., to Sinclair Refining Co. Density measuring apparatus. 3,033,040, 5–8–62, Cl. 73—438.

Pirot, Ernst, to J. P. Bemberg Aktiengesellschaft. Apparatus for production of tubular blown foils of polyvinyl chloride interpolymers. 3 044,114, 7–17–62. Cl. 18—14.

Pirot, Ernst, to J. P. Bemberg Aktiengesellschaft. Process for stabilizing vinyl chloride polymers. 3,050,783, 8–28–62, Cl. 18—57.

Pirt, Stanley J., and D. S. Callow, to National Research Development Corp. Continuous fermentation apparatus for the production of a chemical product. 3,015,612, 1–2–62, Cl. 195—141.

Pirtle, Edna L. : *See*—
Pirtle, Ira, and Yarbrough, 3,045,255.

Pirtle, Ira (deceased), and W. S. Yarbrough ; E. L. Pirtle, executrix of said I. Pirtle. Device and mechanism for raising and lowering invalids. 3,045,255, 7–24–62, Cl. 4—185.

Pirtle, John C., and T. L. Hampton, to General Electric Co. Removable aircraft engine mounting arrangement. 3,042,349, 7–3–62, Cl. 248—5.

Pirtle, Robert M. Slidable outer jaw wrench, having a non-traveling screw jaw-adjusting means. 3,035,467, 5–22–62, Cl. 81—164.

Piscitelli, Vincent, to General Electric Co. Device for removing grease from bearings. 3,037,825, 6–5–62, Cl. 308—187.

Piscitelli, Vincent J. Dental instrument. 3,027,644, 4–3–62, Cl. 32—69.

Piscitelli, Vincent J. Mirror-type dental instrument with vacuum means for keeping a dry surface. 3,052,031, 9–4–62, Cl. 32—69.

Pissarevsky, Gregory J. Method of making bezel ring with lugs. 3,030,698, 4–24–62, Cl. 29—179.

Pistey, John M., to General Electric Co. Wiring device terminal connecting means. 3,060,399, 10–23–62. Cl. 339—53.

Pistey, John M., to General Electric Co. Fluorescent lamp-holder with quick-connect terminals. 3,060,400, 10–23–62, Cl. 339—53.

Pistole, Harry, M. E. True, W. A. Pitts, J. V. Morse, J. M. McFarland, and G. Boer, to Jersey Production Research Co. Subsurface safety valve. 3,040,811, 6–26–62, Cl. 166—72.

Pistole, Harry, J. L. Rike, G. C. Terrel, and D. J. Lefner, to Jersey Production Research Co. Liquid coating applicator for inner surfaces or pipe strings. 3,055,339, 9–25–62, Cl. 118—408.

Pistoles, Lambert R. Gage. 3,027,650, 4–3–62, Cl. 33—174.

Pistoles, Lambert R. Gage having both dial and electrical indicators. 3,042,909, 7–3–62, Cl. 340—265.

Pitavy, Pierre F. M., to Societe Industrielle de Ferblanterie. Device for cutting and slicing vegetables and fruit. 3,033,255, 5–8–62, Cl. 146—169.

Pitcher, John N. Soil sampler. 3,047,081, 7–31–62, Cl. 175—239.

Pitcher, Kenneth R. : *See*—
Kline, Richard M., and Pitcher, 3,048,159.

Pitchford, Armin C. : *See*—
Stratton, Charles A., Pitchford, and Sarrett, 3,028,333.

Pitchford, Armin C., to Phillips Petroleum Co. Method of restricting propellant grains. 3,032,437, 5–1–62, Cl. 117—72.

Pitchon, Esra : *See*—
Clinton, William P., Perry, and Pitchon, 3,039,882.
Clinton, William P., and Pitchon, 3,021,218.

Pitkin, Courtney G., and A. K. Mitra, to Lewis-Howe Co. Antacid composition. 3,062,714, 11–6–62, Cl. 167—55.

Pitler, Richard K., E. E. Reynolds, and G. Aggen, to Allegheny Ludlum Steel Corp. Austenitic alloys. 3,051,565, 8–28–62, Cl. 75—134.

Pitman Mfg. Co. : *See*—
Broderson, Dean E., and Davidson, 3,064,754.
Broderson, Dean E., Jenkins, and Moore, 3,066,756.

Pitman, Raymond W. : *See*—
Conley, Walter R., Jr., and Pitman, 3,067,133.

Pitner, Alfred, to Roulements a Aiguilles, Societe Anonyme des. Roller or needle thrust bearings. 3,031,239, 4–24–62, Cl. 308—235.

Pitner, Alfred, to Societe Anonyme des Roulements a Aiguilles. Process and device for mounting needle bearings in universal joints. 3,062,026, 11–6–62, Cl. 64—17.

Pitney-Bowes, Inc. : *See*—
Barkas, Emanuel, and Schrempp, 3,069,084.
Bernart, William F., Hanson, and Schmeck, 3,016,820.
Beytes, Deane A. 3,016,126.
Capanna, Adolfo A. 3,033,344.
Eckert, Alton B., Jr. 3,038,607.
Hanson, Walter J. 3,049,845.
Liberty, Frank J., and Fuchs, 3,061,067.
Mersereau, Robert E., and Capanna, 3,069,157.
Pitney, Robert C., and Russell, 3,034,329.
Schmeck, Robert E., and Mersereau, 3,066,789.
Yaeger, Vincent M. 3,027,830.

Pitney, Robert C., and A. G. Russell, to Pitney-Bowers, Inc. Combination lock device. 3,034,329, 5–15–62, Cl. 70—314.

Pitrone, Mani. Electrically heated nursing bottle. 3,064,113, 11–13–62, Cl. 219—44.

Pitrot, Orian R., to National Lead Co. Siliceous-lead titanate pigment. 3,031,323, 4–24–62, Cl. 106—297.

Pits, Kennard, and E. A. Herider, to Rockwell-Standard Corp. Swivel seat constructions. 3,066,979, 12–4–62, Cl. 297—240.

Pitt, Arnold : *See*—
Budzich, Tadeusz, and Pitt, 3,054,263.

Pitt, Catherine J. Time teaching educational device. 3,022,582, 2–27–62, Cl. 35—39.

Pitt, Harold M., and H. Bender, to Stauffer Chemical Co. Production of chloroform. 3,026,361, 3–20–62, Cl. 260—658.

Pittard, Stanley A. : *See*—
Stegley, Brian J., and Pittard, 3,022,547.

Pittenger, Francis H., to The Shelby Spring Hinge Co. Double acting door closer. 3,021,556, 2–20–62, Cl. 16—185.

Pittillo, Robert F. : *See*—
Frohardt, Roger P., Pittillo, and Ehrlich, 3,065,137.
Haskell, Theodore H., Ehrlich, Pittillo, and Anderson, 3,043,830.

Pittman, Billy M. Mechanism for supporting a paint roller at various angles to a handle. 3,027,582, 4–3–62, Cl. 15—144.

Pittman, Edgar H., to Deering Milliken Research Corp. Textile materials and method of making the same. 3,017,684, 1–23–62, Cl. 28—72.

Pittman, Edgar H., and E. D. Bolinger, to Deering Milliken Research Corp. Apparatus for intermittently edge-crimping yarn. 3,047,932, 8–7–62, Cl. 28—1.

Pittman, Paul F. : *See*—
Hierholzer, Frank J., Jr., and Pittman, 3,059,191.

Pittman, Paul F., to Westinghouse Electric Corp. Condition responsive impedance switching arrangement utilizing hyperconductive diode. 3,030,523, 4–17–62, Cl. 307—88.5.

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Pitts, Frank, to Magnesium Elektron Ltd. Production of anhydrous barium chloride. 3,038,796, 6–12–62, Cl. 75—93.

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Pitts, James A. Flush valve assembly. 3,066,313, 12–4–62, Cl. 4—60.

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Pitts, Loye D. Fishing gig with attachable string line. 3,050,897, 8–28–62, Cl. 43—6.

Pitts, Robert D., and F. M. Conwy, to Barker Automation, Inc. Poultry processing equipment. 3,068,509, 12–18–62, Cl. 17—11.1.

Pitts, Thomas E. : *See*—
O'Brien, William H., and Pitts, 3.045,946.

Pitts, Thomas E., to Leesona Corp. Winding machine. 3,055,604, 9–25–62, Cl. 242—35.6.

Pitts, Thomas E., and C. A. Steele, to Leesona Corp. Ejector for supply package indexing mechanism. 3,048,349, 8–7–62, Cl. 242—130.

Pitts, Wade H., Jr. Electromagnetic drive. 3,055,475, 9–25–62, Cl. 192—84.

Pitts, William A., to Jersey Production Research Co. Method for locking of pipe sections. 3,059,697, 10–23–62, Cl. 166—49.

Pittsburgh Annealing Box Co. : *See*—
Jacob, Morris L. 3,068,553.
Jacob, Morris L. 3,069,148.

Pittsburgh Chemical Co. : *See*—
Gray, Arthur E. 3,029,027.
Gray, Arthur E., and Gleysteen, 3,034,729.
Johnston, James D. 3,042,596.
Smith, Stanton B., and Juhola, 3,015,367.

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Johnston, James D. 3,052,597.
Markley, Francis X. 3,033,667.

Pittsburgh-Des Moines Steel Co. : *See*—
Anderson, Lloyd E., Sr. 3,015,913.
Anderson, Lloyd E., Sr. 3,019,935.
Fino, Alexander F. 3,036,342.
Fino, Alexander F., and Swick, 3,033,413.

Pittsburgh Plate Glass Co. : *See*—
Allen, Edward M. 3,069,282.
Anderson, Julius, and Currier, 3,056,645.
Auffenorde, James E., and Penone, 3,019,136.

Pittsburgh Plate Glass Co.: *See*—Continued
Beck, Martin A., and Kaufman. 3,028,131.
Benner, Floyd E., Jr., Eisenlohr, and Reich. 3,059,035.
Bissinger, William E. 3,051,686.
Black, Lloyd V. 3,068,672.
Bohl, Lester E., and Vaucamp. 3,065,279.
Brutko, Constantine A. 3,048,000.
Carlin, William W. 3,057,794.
Christenson, Roger M. 3,037,963.
Christenson, Roger M. 3,050,495.
Cochran, John K. 3,041,662.
Cochran, John K. 3,064,922.
Cusick, Charles S., Schwab, and Lange. 3,041,798.
Dahms, James B., and Edmonds. 3,058,729.
Darr, Donald E., and Naworski. 3,022,271.
Denniston, Donald W. 3,048,217.
Dial, William R. 3,025,331.
Dietrich, Joseph J., and Svigert. 3,065,204.
Duncan, James E., and Englert. 3,022,183.
Duncan, James E., and Seymour. 3,020,803.
Eilerman, George E. 3,019,122.
Eilerman, George E. 3,025,588.
Feathers, Robert E., and Rogerson. 3,040,109.
Golightly, James S. 3,069,877.
Green, Franklin H. 3,041,663.
Green, Franklin H. 3,041,664.
Gregorius, Joseph S. 3,037,323.
Hardines, Donald E., and Pray. 3,070,634.
Heinemann, Guave. 3,040,010.
Helbing, Clarence H., and Waggoner. 3,056,707.
Helvenston, Edward P., and Broun. 3,024,595.
Heroy, James H., Jr. 3,027,999.
Hopkins, Robert W. 3,065,090.
Hoyer, Eugene, and McLaughlin. 3,036,410.
Kearley, Robert A. 3,027,245.
Keslar, Leroy D. 3,027,288.
Kilroy, Thomas F. 3,022,366.
Kirby, Robert E. 3,050,913.
Korach, Malcolm, and Rideout. 3,019,234.
Kunkle, Gerald E., and Harwell. 3,066,453.
La Fleur, Sidney O. 3,057,631.
La Fleur, Sidney O. 3,064,370.
Lagerstrom, Gosta B. 3,034,913.
Lagerstrom, Gosta B. 3,034,914.
Le Blanc, Carrol P., and Henslee. 3,022,244.
Le Bras, Louis R., and Park. 3,068,254.
Le Bras, Louis R., and Stahr. 3,055,867.
Le Bras, Louis R., and Stahr. 3,057,824.
Levine, Morris, and Yurcheshen. 3,069,291.
Lindsay, Joseph. 3,030,171.
Maxwell, William J. 3,064,845.
McConnell, William C. 3,047,403.
Michaelis, John L. 3,052,840.
Middleswarth, Earl T., and Duncan. 3,046,148.
Moore, Francis C. 3,066,365.
Moore, John W. 3,055,838.
Oakes, Wayne W. 3,063,746.
Orr, Leighton E. 3,019,135.
Parris, Chester L. 3,024,281.
Parris, Chester L. 3,024,282.
Parris, Chester L. 3,062,882.
Pray, Blaine O. 3,048,619.
Pray, Blaine O., and Hardies. 3,043,888.
Richardson, Ronald E. 3,021,227.
Richardson, Ronald E. 3,024,572.
Richardson, Ronald E. 3,046,169.
Russell, Hall H. 3,066,320.
Schaffer, Stanley A. 3,070,459.
Sherts, James H., Terry, and Coultrap. 3,041,224.
Smith, William G. 3,019,475.
Stevens, Henry C. 3,069,385.
Strain, Franklin, Stevens, and Foltz. 3,046,255.
Strain, Franklin, Wilson, Dietz, Hughes, and Arkless. 3,068,113.
Tilgner, Ralph F. 3,038,759.
Tilgner, Ralph F. 3,042,951.
Van Hoozer, John F. 3,046,091.
Vogel, Henry A., Rylander, and Roach. 3,016,357.
Vogt, Harvey J. 3,065,280.
Wilson, William L. 3,069,281.
Wismer, Marco. 3,016,362.
Wismer, Marco. 3,043,881.
Wismer, Marco. 3,056,843.
Wismer, Marco, Parker, and Park. 3,060,146.
Wolf, Ralph F. 3,038,872.

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Hunter, Everett C. 3,048,203.
Roehl, Edward J., Michel, and Kalla. 3,034,211.
Wismer, Marco, and Hydro. 3,051,665.

Pittwood, Donald G., to International Business Machines Corp. Automatic coupling and uncoupling apparatus for machine tools. 3,028,770, 4–10–62, Cl. 77—4.

Pittwood, Donald G., to International Business Machines Corp. Automatic tool changer. 3,064,502, 11–20–62, Cl. 77—53.

Pityo, Albert F. Method of making diode elements. 3,059,321, 10–23–62, Cl. 29—155.5.

Pitzer, Emory W., and B. T. Morgan, to Phillips Petroleum Co. Pressure-formed catalyst structures and method of manufacturing same. 3,051,662, 8–28–62, Cl. 252—430.

Piver, Arthur. Automatic release cleat for sail boats. 3,046,929, 7–31–62, Cl. 114—218.

Pixley, Francis V. and G. W., and H. Lopinot, to Pelm Research and Development Corp. Method for forming lightweight aggregates. 3,037,940, 6–5–62, Cl. 252—378.

Pixley, George W.: *See*—
Pixley, Francis V. and G. W., and Lopinot. 3,037,940.

Pizzarello, Roy A.: *See*—
Dehn, Joseph W., Jr., Eltonhead, and Pizzarello. 3,057,848.

Pizzarotti, Pietro, C. Antonucci, and G. Leoncini, to Impresa Pezzarotti & C.S.r.l. Method of laying roads and apparatus therefor. 3,069,983, 12–25–62, Cl. 94—46.

Pizzi, Albert L.: *See*—
Crosby, Charles H., Hicks, Pizzi, and Wahlberg. 3,023,877.

Pizzi, Albert L., to Western Electric Co., Inc. Cable twisting units. 3,030,762, 4–24–62, Cl. 57—66.5.

Pizzurro, Joseph C.: *See*—
Focht, John R., and Pizzurro. 3,028,629.

Placco, Oscar F., P. E. Stone, and F. P. Keyes, to Bell Trading Post, Ltd. Watch bracelet. 3,019,503, 2–6–62, Cl. 24—265.

Place, Robert E.: *See*—
Brown, Joe B., and Place. 3,051,328.

Placerville Fruit Growers Association: *See*—
Baker, Arthur V. 3,039,631.

Plach, Alvin H., and A. E. Ericson, to Union Carbide Corp. Article fabricating apparatus and method. 3,053,723, 9–11–62, Cl. 156—252.

Placke, Eugene A.: *See*—
Price, Berry G., and Placke. 3,066,254.

Placke, Everett H., and H. A. Mullen, to The National Cash Register Co. Rate devices. 3,021,057, 2–13–62, Cl. 235—61.

Plagge, James C.: *See*—
Fuller, John B., Moos, and Plagge. 3,063,413.

Plagge, Vernon L.: *See*—
Boyce, Walter A., and Plagge. 3,018,187.

Plambeck, Louis, Jr.: *See*—
Mochel, Walter E., and Plambeck. 3,016,297.

Plan Hold Corp.: *See*—
Schneider, Arthur H. and O. K. 3,069,737.

Planer, George V., and R. W. Windebank, to Cosmocord Ltd. Transducers. 3,061,771, 10–30–62, Cl. 323—94.

Planert, Wolfgang: *See*—
Bonisch, Josef, Gopfert, and Planert. 3,017,804.

Planert, Wolfgang, to Kamera-und Kinowerke Dresden, VEB. Cinematographic or photographic cameras. 3,045,574, 7–24–62, Cl. 95—45.

Planet Corp.: *See*—
Brown, Joe B., and Place. 3,051,328.

Planetary Lock Co. Ltd.: *See*—
Johnson, John G. 3,064,463.

Planitzer, Erich: *See*—
Nauschutz, Peter, Planitzer, and Schindler. 3,069,975.
Nauschutz, Peter, Planitzer, and Schindler. 3,070,016.

Planitzer, Erich, to Bolkow-Entwicklungen KG. Container consisting of foam material. 3,040,879, 6–26–62, Cl. 206—46.

Plank, Charles J., E. J. Rosinski, and R. B. Smith, to Socony Mobil Oil Co., Inc. Manufacture of a silica-zirconia catalyst for conversion of hydrocarbons. 3,015,620, 1–2–62, Cl. 208—119.

Plank, Charles J., and E. J. Rosinski, to Socony Mobil Oil Co., Inc. Catalytic hydrocracking with the use of a silica-zirconia composite. 3,067,127, 12–4–62, Cl. 208—110.

Plank, Dick A. Explosive train arming device. 3,065,694, 11–27–62, Cl. 102—18.

Plank, Shirley E. Hair rinsing cape. 3,040,336, 6–26–62, Cl. 4—159.

Plan-O-Bans Corp.: *See*—
De Shazor, James C., Jr. 3,053,010.

Plant Products Corp.: *See*—
Geary, Robert J., and Haber. 3,038,794.

Plantinga, Oliver S., and R. J. Trewella, to Johnson & Johnson. Dressing. 3,043,301, 7–10–62, Cl. 128—156.

Plapper, Jürgen: *See*—
Heyden, Rudi, and Plapper. 3,019,133.

Plapper, Jürgen, R. Heyden, and G. Böhme, to Bohme Fettchemie G.m.b.H. Tanning process and tanning agents therefor. 3,023,073, 2–27–62, Cl. 8—94.33.

Plasko, Stephen J. Manicure appliances. 3,042,047, 7–3–62, Cl. 132—75.5.

Plasmadyne Corp.: *See*—
Ducati, Adriano C. 3,055,213.
Ducati, Adriano C., and Blackman. 3,055,262.
Giannini, Gabriel M., and Ducati. 3,066,528.

Plasmatic, Inc.: *See*—
Wesley, Newton K., and Mattle. 3,027,804.

Plasmet Engineering Corp.: *See*—
Warren, Harry G. 3,070,314.

Plasse, Paul A.: *See*—
Banigan, Thomas F., Jr., and Plasse. 3,039,893.

Plasse, Paul A., and R. E. Politi, to Oliver Machinery Co. Pressure sensitive adhesive sheet material having a protective coating of heat removable material. 3,027,271, 3–27–62, Cl. 117—76.

Plasser, Franz, and J. Theurer. Actuating mechanism for pivotal and vibratory ballast tamping tools. 3,016,023, 1–9–62, Cl. 104—12.

Plasser, Franz, and J. Theurer. System for lifting a track section. 3,041,982, 7–3–62, Cl. 104—7.

Plasser, Franz, J. Theurer, and K. Folser. Hydraulic mechanism for driving rail fastening screws in railroad ties. 3,064,428, 11–20–62, Cl. 60—53.
Plas-Tainer Inc. : *See*—
Ahlbeck, Richard A., and Smith. 3,068,511.
Smith, John W., Jr. 3,022,918.
Plaster, William E. : *See*—
De Lano, Merritt V., Jr., and Plaster. 3,019,273.
Plaster, William E., and R. E. Dixon, to Phillips Petroleum Co. Fractional distillation apparatus. 3,053,521, 9–11–62, Cl. 261—114.
Plastering Development Center, Inc. : *See*—
Hobson, Lloyd H. 3,035,940.
Hobson, Lloyd H. 3,042,316.
Kinzelman, Joseph. 3,033,123.
Plastex Co., The : *See*—
Basford, James W. 3,065,893.
Plastic & Appliance Co., Inc. : *See*—
Fuge, Harry B., and Zaorski. 3,021,629.
Plastic Applicators, Inc. : *See*—
Gifford, Bruce M. 3,063,760.
Plastic Binding Corp. : *See*—
Fox, Edward W. 3,023,434.
Plastic Coating Corp., The : *See*—
Shearer, Walter V., and Householder. 3,042,563.
Uber, Jay J. 3,042,523.
Plastic Contact Lens Co., The : *See*—
Wesley, Newton K. 3,031,927.
Plastic Textile Accessories Ltd. : *See*—
Mercer, Frank B. 3,051,987.
Mercer, Frank B. 3,051,989.
Plastic Training Products Co. : *See*—
Dunn, Joseph S. 3,060,856.
Plastic-Ware Inc. : *See*—
Mack, Bernard. 3,021,542.
Plastics Development Corp. : *See*—
Peters, James R. 3,043,053.
Plastics, Inc. : *See*—
Schilling, Paul K. 3,057,016.
Plastidry Societe Anonyme : *See*—
Hanssens, Gustave J. J. 3,018,800.
Plastofilm, Inc. : *See*—
Phipps, Cornelius M. 3,025,952.
Plastomatic Corp. : *See*—
Hutchinson, Herman R. 3,048,299.
Plastomer Development Corp. : *See*—
Downs, Myron H. 3,047,910.
Plastomeric Products Corp. : *See*—
Abildegaard, William H. 3,045,815.
Plat, Auke, and J. C. A. Recourt, to North American Philips Co., Inc. Tube socket adapter for printed board. 3,015,-794, 1–2–62, Cl. 339—17.
Plate, Sten C. Feeding bottle. 3,065,873, 11–27–62, Cl. 215—11.
Platecraft of America, Inc. : *See*—
Grazen, Alfred E. 3,061,525.
Platenius-Vertriebs G.m.b.H. : *See*—
Fengler, Willy. 3,040,389.
Plati, John T : *See*—
Albrecht, Harry A., Plati, and Wenner. 3,058,987.
Platner, John B., to Chrysler Corp. High torque V–8 engine. 3,053,241, 9–11–62, Cl. 123—122.
Plato, Alfred F. : *See*—
Wieckman, Frederic, and Plato. 3,044,511.
Platou, Leiv S. : *See*—
Munschauer, George E., and Platou. 3,030,900.
Platt, Clark I., and C. A. Cobb, to Whirlpool Corp. Lint filter for use with washing machines. 3,040,552, 6–26–62, Cl. 68—18.
Platt, Haviland H. Vertical take-off airplane. 3,039,719, 6–19–62, Cl. 244—7.
Platt, Haviland H. Vertical take-off airplane. 3,059,876, 10–23–62, Cl. 244—7.
Platt, Lewis F. : *See*—
Hart, Robert H., Platt, Thomas, and Rhinehart. 3,059,-319.
Platt, Richard D., to The Harshaw Chemical Co. Photomultiplier tube enclosure. 3,052,796, 9–4–62, Cl. 250—71.5.
Platt, Richard O., and T. E. Ralston, to Harbison-Walker Refractories Co. Mixing and dispensing apparatus for hot patching material. 3,057,519, 10–9–62, Cl. 222—195.
Platt, Robert E., II. Vernier gauging device. 3,067,521, 12–11–62, Cl. 33—185.
Platt, Stephen A. Device for projecting still picture film with synchonized sound. 3,022,707, 2–27–62, Cl. 88—28.
Platt, William C., and A. L. Poston, to Ventura Processors. Method for recovering citrus oil. 3,058,887, 10–16–62, Cl. 195—3
Plattner, Robert F. : *See*—
Hall, Marchand B., Anderson, and Plattner. 3,032,075.
Platz, Elwood T., to I-T-E Circuit Breaker Co. Rotary handle mechanism. 3,024,664, 3–13–62, Cl. 74—89.
Platz, Elwood T., and W. H. Frank, to I-T-E Circuit Breaker Co. Plug-in connector. 3,017,605, 1–16–62, Cl. 339—252.
Platz, Rolf : *See*—
Kroeper, Hugo, Weitz, and Platz. 3,019,215.
Platzer, Roger : *See*—
Cohen De Lara, Georges, Delachanal, and Platzer. 3,049,236.
Platzman, Michael M., and L. M. Keefe to National Automation Corp. Tabulating card perforating apparatus. 3,051,079, 8–28–62, Cl. 101—19.
Plax Corp. : *See*—
Freeman, Lawrence W. 3,019,725.
Park, Robert H. 3,028,622.
Scopp, Howard A. 3,030,325.
Wuyckens, Jean J. C. 3,015,404.
Playle, Jack R., to General Motors Corp. Refrigerator compressor. 3,023,590, 3–6–62, Cl. 62—196.
Pledger-Cockle Sales Co., Inc. : *See*—
Pledger, William A. 3,060,833.
Pledger, Huey, Jr. : *See*—
Dick, Clarence R., and Pledger. 3,016,410.
Pledger, William A., to Pledger-Cockle Sales Co., Inc. Damper device for ranges. 3,060,833, 10–30–62, Cl. 98—115.
Plegat, Alain E., to Chausson, Societe Anonyme des Usines. Synchronous oscillating compressor actuated by an alternating magnetic field. 3,058,649, 10–16–62, Cl. 230—55.
Plehn, Henry M. Strapless brassiere. 3,029,821, 4–17–62, Cl. 128—479.
Pleiman, Harvey J. Milk strainer. 3,035,705, 5–22–62, Cl. 210—445.
Plenty and Son Ltd. : *See*—
Shoosmith, Guy T. 3,039,427.
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Plesmid, Frank J., to E. I. du Pont de Nemours and Co. Separation of beta-bromoethyl benzene from alpha-bromoethyl benzene by distillation. 3,058,892, 10–16–62, Cl. 202—57.
Plesser, Edgar W., to Philco Corp. Electrical circuit means. 3,029,365, 4–10–62, Cl. 317—101.
Plessey Co. Ltd., The : *See*—
Baines, Frederick. 3,015,262.
Broad, Michael J. 3,045,686.
Broad, Michael J. 3,063,242.
Dawes, Reginald G. 3,059,198.
Dawson, Roger N. 3,046,478.
Deverell, Geoffrey J. 3,051,005.
Herbert, John M. 3,028,656.
Herbert, John M. 3,041,189.
Hough, George V., Cronin, and Cox. 3,035,772.
Kahn, Peter B. 3,035,592.
Lee, James A. 3,048,497.
Long, Everett, Packman, and Gurner. 3,029,344.
Moss, Norman, and Broad. 3,037,353.
Moss, Norman, and Broad. 3,040,761.
Sharp, Leonard W. D., and Blight. 3,048,684.
Pleterski, Friedrich. Code lock. 3,017,761, 1–23–62, Cl. 70—132.
Pletta, William H. Marine snubber. 3,051,448, 8–28–62, Cl. 254—189.
Pleuger, Friedrich W. Submersible pump assembly. 3,033,-125, 5–8–62, Cl. 103—220.
Plew, Miles A. : *See*—
Katz, Irving, Plew, and Wilson. 3,028,342.
Plicoflex, Inc. : *See*—
Stokes, William S. 3,033,724.
Pliska, Felix. Ice racer. 3,047,303, 7–31–62, Cl. 280—12.
Pliskin, William A., to Texaco Inc. Wedge for a double beam spectrophotometer. 3,016,800, 1–16–62, Cl. 88—61.
Plitt, Karl F., to United States of America, Commerce. Pressure sensitive adhesive composition comprising polyvinylpyrrolidone and polyethylene polyamine, article coated therewith and method of making same. 3,028,351, 4–3–62, C. 260—29.6.
Plock, Karl R. Keller, and K. Quest, to B. Kaiser and E. Pauls. Back-pressure racking apparatus for racking especially carbon dioxide containing beverages. 3,032,077, 5–1–62, Cl. 141—39.
Plogstedt, Allen E., and R. W. Bradmiller, to Avco Corp. Stable transistor R-C oscillator. 3,070,757, 12–25–62, Cl. 331—110.
Plotkin, Gerald N., to United States of America, Navy. Radiation load simulator for proximity fuze. 3,015,820, 1–2–62, Cl. 343—17.7.
Plouck, Richard E., and R. E. Stine, to The Aro Corp. Reversing linkage for prony brake apparatus. 3,060,757, 10–30–62, Cl. 74—101.
Plough Laboratories, Inc. : *See*—
Feinstone, Wolffe H. Re. 25,205.
Plow, Richard H. : *See*—
Reynolds, Alfred O., Plow, and Snyder. 3,023,806.
Plueddemann, Edwin P. : *See*—
Gilkey, John W., and Plueddemann. 3,055,774.
Plueddemann, Edwin P., to Dow Corning Corp. Organosilicon hydroxyalkyl-amine polymers. 3,046,250, 7–24–62, Cl. 260—46.5.
Plueddemann, Edwin P., to Dow Corning Corp. Hydroxyether organosilicon compounds. 3,057,901, 10–9–62, Cl. 260—448.2.
Pluhacek, Rudolf, deceased (T. Pluhackova, M. Niokova, and R. Pluhacek, Jr., heirs), and J. Trachta. Method of molding articles from scrap tire material. 3,027,599, 4–3–62, Cl. 18—55.
Pluhacek, Rudolf, Jr. : *See*—
Pluhacek, Rudolf. 3,027,599.
Pluhackova, Trantiska : *See*—
Pluhacek, Rudolph. 3,027,599.
Plum, John. Hard-chine boat. 3,024,478, 3–13–62, Cl. 9—6.
Plumettaz, Fernand, to Plumettaz S.A. Control devices for powered winches. 3,032,321, 5–1–62, Cl. 254—175.
Plumettaz S.A. : *See*—
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Plumley, Harold J., to United States of America, Navy. Disposal of encased explosives. 3,054,349, 9–18–62, Cl. 102—1.
Plummer, Charles W.: *See*—
Clark, Howard G., Plummer, and Hoffmann. 3,067,261.
Plummer, Charles W., to United States of America, Navy. Explosive composition. 3,049,570, 8–14–62, Cl. 260—645.
Plummer, Donald P., to Shell Oil Co. Production of jet fuels. 3,030,299, 4–17–62, Cl. 208—96.
Plummer, Harland C., to Woodward Governor Co. Speed regulator for prime movers. 3,019,602, 2–6–62, Cl. 60—39.28.
Plummer, Henry J., to Bristol Siddeley Engines Ltd. Belt grinding machines. 3,043,061, 7–10–62, Cl. 51—141.
Plummer, Robert F.: *See*—
Petix, Theodore A., Wynen, and Plummer. 3,054,499.
Plummer, Theodore E., to General Motors Corp. Electric motor bearing and retainer assembly. 3,037,822, 6–5–62, Cl. 308—72.
Plummer, Wade S., to Somar Industries, Inc. Rotating cutting member. 3,059,400, 10–23–62, Cl. 56—295.
Plummer, Walter A. Plastic tubing. 3,038,205, 6–12–62, Cl. 18—47.5.
Plummer, Walter A. Protective jacket. 3,038,558, 6–12–62, Cl. 184—16.
Plummer, Walter A., and R. A. Sperr, said Sperr assor. to said Plummer. Cabling machine and method of producing jacketed cable. 3 058 867, 10–16–62, Cl. 156—52.
Plump, Ralph E., and J. C. Devins, to General Electric Co. Electrical apparatus and gaseous dielectric material therefor comprising perfluoroalkylnitrile. 3,048,648, 8–7–62, Cl. 174—17.
Plunket, Shaun A.: *See*—
Garrod, Norman J., and Plunket. 3,061,171.
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Davis, Elwood A., and Plunkett. 3,032 263.
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De Julio, Richard, and Plunske. 3,057,124.
Plurien, Pierre: *See*—
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Mittelstadt, Norbert F., and Pilz. 3,015,849.
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Smith, Samuel V. 3,058,307.
Smith, Samuel V. 3,058,308.
Pneumafil Corp.: *See*—
Bohannon, David L., Parnell, Shanklin, Williamson, and Nazel. 3,061,892.
Pneuma-Serve Ltd.: *See*—
Zakrzewski, Andrew S., and Ashby. 3,038,637.
Pneumatic Scale Corp.: *See*—
Knobel, Max. 3,066,751.
Saumsiegle, Robert W. 3,063,890.
Vergobbi, John G. 3,065,675.
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Whelan, James P. 3,060,481.
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Knobel, Max. 3,023,822.
Saumsiegle, Robert W. 3,015,920.
Sterling, Walter S. 3,032,949.
Whelan, James P. 3,042,182.
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Feiler, Alfred M., and Light. 3,059,590.
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Batterman, Theodore W., and Pobog. 3,046,864.
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Pockman, Lloyd A.: *See*—
Pockman, William W. and L. A. 3,033,349.
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Pocock, Robert C., to The Bendix Corp. Brake structure. 3,027,979, 4–3–62, Cl. 188—72.
Pocock, Walter E.: *See*—
Hartman, Harry J., and Pocock. 3,053,691.
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Podall, Harold E.: *See*—
Giraitis, Albert P., and Podall. 3,028,220.
Podall, Harold E., to Ethyl Corp. Manufacture of alkyl aluminum hydrides. 3,046,290, 7–24–62, Cl. 260—448.
Podall, Harold E., and H. Shapiro, to Ethyl Corp. Process for manufacture of metal carbonyls. 3,053,628, 9–11–62, Cl. 23—203.
Podbielniak, Walter J.: *See*—
Doyle, Collin M., and Kaiser. 3,053,440.
Poddig, Hugo, and J. Poser. Telescoping antenna. 3,038,567, 6–12–62, Cl. 189—26.
Podebradsky, Everett V.: *See*—
Hansen, Leo J., Podebradsky, and Shaw. 3,041,182.
Podebradsky, Everett V., to Oscar Mayer and Co., Inc. Method for preparing skinless sausage-type product. 3,063,842, 11–13–62, Cl. 99—109.
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Podner, Joseph, to The Smead Mfg. Co. Hanging file with index tab. 3,039,470, 6–19–62, Cl. 129—16.8.
Podolny, William H., to United Aircraft Corp. Solar energy powerplant. 3,070,703, 12–25–62, Cl. 290—2.
Podschus, Ernst: *See*—
Joseph, Werner, Kaule, and Podschus. 3,020,646.
Poe, Edgar A., Jr.: *See*—
Everett, John W. 3,040,933.
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Poe, Lloyd R., to Hartwell Corp. Toggle latch. 3,051,520, 8–28–62, Cl. 292—223.
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Poel, Norman C.: *See*—
McGow, Thomas C., Poel, and Olk. 3,062,359.
Poelman, Armand J. J., and M. A. Germain, ½ to R. Schneider Etablissements, and Bernard Dumas & Cie. Fliter papers. 3,034,981, 5–15–62, Cl. 210—504.
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Poeschl, Rudolf. Fibre web dividing tape. 3,017,671, 1–23–62, Cl. 19—151.
Pogonowski, Ivo C., to Shell Oil Co. Boat landing. 3,036,-437, 5–29–62, Cl. 61—48.
Pohjaniemi, Antti A. Toilet shelf. 3,042,218, 7–3–62, Cl. 211—90.
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Pohl, Franz A., and W. H. Bonsels, to Licentia Patent-Verwaltungs- G.m.b.H. Process for producing boron and phosphorus-free high purity silicon dioxide. 3,059,996, 10–23–62, Cl. 23—182.
Pohl, Friedrich, to Hydrostahlbau-Gesellschaft Wiese & Co. Hydraulic whip drive for the overhang beam of a crane. 3,035,710, 5–22–62, Cl. 212—8.
Pohl, Friedrich, to Hydrostahlbau-Gesellschaft Wiese & Co. Hydraulically operable rotary crane. 3,037,642, 6–5–62, Cl. 212—69.
Pohl, Friedrich, to Atlas Werke A.G. Whipping crane. 3,051,324, 8–28–62, Cl. 212—35.
Pohl, Herbert A.: *See*—
Engle, Robert F., Jr., and Pohl. 3,028,366.
Pohl, Karl-Heinz H., to Bell Telephone Laboratories, Inc. Connector assembly. 3,021,500, 2–13–62, Cl. 339—75.

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Pohle, Hans: *See*—
Freytag, Helmut, Lober, and Pohle. 3,069,398.
Lober, Friedrich, Freytag, and Pohle. 3,047,546.
Pohlemann, Heinz, H. Schroeder, H. Stummeyer, and H. Adolphi, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. New compounds of O,O'-dialkylthiophosphoric acids and a process for their production. 3,031,488, 4–24–62, Cl. 260—461.
Pohler, Derrick M.: *See*—
Marsh, John O., and Pohler. 3,056,540.
Pohler, Heinz, to Eisenwerk Rothe Erde G.m.b.H. Single- and multi-row wire bearing systems. 3,030,158, 4–17–62, Cl. 308—230.
Pohlmann, Edward: *See*—
Cambel, Ali B., and Schaffer. 3,046,731.
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Pohm, Arthur V., to Sperry Rand Corp. Non-destructive sensing system. 3,070,783, 12–25–62, Cl. 340—174.
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Pohm, George H., to Lorain Products Corp. Alarm system. 3,018,379, 1–23–62, Cl. 307—46.
Pohndorf, Henry L.: *See*—
Bird, Forrest M., and Pohndorf. 3,068,856.
Pohorilla, Michael J.: *See*—
Lawrence, Franlin I. L., and Pohorilla. 3,036,004.
Poillevey, Leon J. Device for resistance welding two objects. 3,017,108, 1–29–62, Cl. 219—56.
Poillevey, Léon J. Stand having supports in echelon. 3,043,-439, 7–10–62, Cl. 211—128.
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Point, Marcel A. R., and R. C. Morel, to Societe Anonyme de Machines Electrostatiques. Guns for atomization and electrostatic projection of particles. 3,039,696, 6–19–62, Cl. 239—13.
Pointud, Roger: *See*—
Pruvot, Emile, Baradez, Caillat, and Pointud. 3,057,684.
Poirier, Normand A.: *See*—
Masci, Joseph N., and Poirier. 3,055,836.
Poitevin de Fontguyon, Marie P. Optical instrument of the reflection type. 3,043,943, 7–17–62, Cl. 88—2.3.
Poitras, Donald J., to Radio Corp. of America. Protective circuit for a voltage regulator. 3,060,368, 10–23–62, Cl. 323—22.
Poitras, Edward J.: *See*—
Jess, Thurman S., Morrisette, and Poitras. 3,064,802.
Poitras, Edward J., and C. W. Walter, to Baxter Laboratories, Inc. Closure system. 3,047,177, 7–31–62, Cl. 215—56.
Poitras, Edward J., and C. W. Walter, to Baxter Laboratories, Inc. Closure system. 3,047,178, 7–31–62, Cl. 215—56.
Poittevin, André: *See*—
Muller, Georges, and Poittevin. 3,018,283.
Muller, Georges, and Poittevin. 3,040,092.
Muller, Georges, and Poittevin. 3,061,636.
Muller, Georges, Poittevin, and Bardoneschi. 3,040,093.
Pokorny, Ernst A., to Societe Generale Metallurgique de Hoboken. Manufacture of niobium by fusion electrolysis. 3,062,727, 11–6–62 Cl. 214—64.
Pokorny, Frank J., and C. J. Clausing, to I-T-E Circuit Breaker Co. Anti-pump control circuit for motor closed circuit breaker. 3,028,527, 4–3–62, Cl. 317—54.
Pokorny, Joseph: *See*—
Arnold, Howard N., Pokorny, and Pickett. 3,030,913.
Pokras, Adolph. Insulating cover for toilet flush tank. 3,068,490, 12–18–62, Cl. 4—68.
Polacek, Robert J., to Celanese Corp. of America. Polyurethane foam containing tris-2(1,3,dichloropropyl) phosphate and method for preparing same. 3,041,293, 6–26–62, Cl. 260—2.5.
Pol-Air Inc.: *See*—
Farmer, Guy F. 3,027,727.
Polak, Henri. Nuclear energy reactors. 3,047,483, 7–31–62. Cl. 204—193.2
Polakowski, Natalis H. Apparatus for rolling strip metal. 3,018,676, 1–30–62, Cl. 80—32.
Polan Industries Inc.: *See*—
Polan, Lincoln M., Cheuvront, Ingalls, Strom, and Muir. 3,025,750.
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Poland, Maurice D. Windshield wiper replacement unit. 3,059,265, 10–23–62, Cl. 15—250.36.
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Poland, William L., to Schlumberger Well Surveying Corp. Information handling system. 3,058,097, 10–9–62, Cl. 340—174.
Polanin, Walter R., to American Steel Foundries. Slack adjuster. 3,016,114, 1–9–62, Cl. 188—203.
Polanin, Walter R., and M. S. Andrzejewski, to Amsted Industries Inc. Self-contained brake arrangement. 3,040,-843, 6–26–62, Cl. 188—153.
Polanski, Frank C., to Ladish Co. Clamp hinge. 3,021,584, 2–20–62, Cl. 24—270.
Polanski, Frank C., to Ladish Co. Tube trimming machine. 3,022,692, 2–27–62, Cl. 82—59.
Polanski, Frank C. Work holders. 3,030,135, 4–17–62, Cl. 287—91.
Polansky, Raymond, and J. R. Anghinetti, to American Cyanamid Co. Textile finishing resin, wrinkle resistant cellulose textile, processes of making resin and treated textile. 3,052,570, 9–4–62, Cl. 117—139.4.
Polansky, Robert G., to United States of America, Air Force. Physiological instrumentation checkout apparatus. 3,063,-283, 11–13–62, Cl. 73—1.
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Polanyi, Michael L.: *See*—
Hicks, John W. Jr., and Polanyi. 3,068,739.
Hicks, John W., Jr., and Polanyi. 3,068,742.
Polanyi, Michael L., J. E. Johnston, and M. G. Brown, to American Optical Co. Method for analyzing microscopic particles and the like. 3,049,047, 8–14–62, Cl. 88—14.
Polarad Electronics Corp.: *See*—
Beiser, Leo. 3,020,500.
Beiser, Leo, and Schneider. 3,020,499.
Clorfeine, Alvin. 3,066,576.
Jaffe, David L. 3,041,421.
Jaffe, David L. 3,064,207.
Jaffe, David L., and Ross. 3,045,181.
Jaffe, David L., and Sonnenschein. 3,060,427.
Ross, Alan, Eisenmeyer, and Rakofsky. 3,019,389.
Schneider, Seymour. 3,016,500.
Zimmerman, Harry, and Share. 3,067,394.
Polaroid Corp.: *See*—
Bachelder, Albert J., and Eloranta. 3,053,160.
Barstow, Frederick C. 3,068,774.
Barton, Derek H. R., and Quinkert. 3,032,491.
Bing, Herbert A. 3,068,770.
Bing, Herbert A., and Wareham. 3,015,982.
Bird, George R., and Perkins. 3,046,839.
Blout, Elkan R. 3,053,147.
Blout, Elkan R., Green, Rogers, Simon, and Woodward. 3,019,107.
Blout, Elkan R., and Simon. 3,047,386.
Booth, Joseph H., and Chubb. Re. 25,167.
Booth, Joseph H., and Parrish. 3,045,569.
Campbell, John E. 3,056,491.
Campbell, John E. 3,056,492.
Casselman, Robert C. 3,068,771.
Chen, Richard J. 3,053,158.
Cooper, Dexter P., Jr. 3,022,436.
Cooper, Dexter P., Jr. 3,022,437.
Cooper, Dexter P., Jr. 3,022,438.
Cooper, Dexter P., Jr., and Bryant. 3,022,439.
Corley, Richard S. 3,053,656.
Delangre, John P., and Cane. 3,015,989.
Derschowitz, Samuel. 3,059,108.
Dershowitz, Samuel. 3,065,075.
Dietz, Milton S. 3,021,770.
Distel, Joseph W. 3,029,719.
Distel, Joseph W. 3,046,859.
Eburn, William H., Jr., and Wolff. 3,062,115.
Eloranta, Vaito K. 3,033,091.
Eloranta, Vaito K. 3,046,861.
Erlichman, Irving. 3,037,670.
Flinchbaugh, Rodman F., Huffman, and Sands. 3,022,170.
Green, Milton. 3,022,167.
Green, Milton. 3,062,884.
Green, Milton, and Husek. 3,019,254.
Green, Milton, and Rogers. 3,043,690.
Green, Milton, and Simon. 3,022,166.
Green, Milton, and Solodar. 3,022,354.
Green, Milton, and Solodar. 3,061,434.
Grey, David S. 3,056,341.
Haas, Howard C. 3,037,965.
Haas, Howard C. 3,043,689.
Haas, Howard C. 3,044,873.
Haas, Howard C. 3,061,428.
Haas, Howard C. 3,069,262.
Haas, Howard C. 3,069,263.
Haas, Howard C. 3,069,264.
Haas, Howard C., and Rogers. 3,043,692.
Haas, Howard C., and Schuler. 3,019,131.
Kotler, Max, Nicolosi, and Beio. 3,069,649.
Land, Edwin H. 3,030,207.
Land, Edwin H. 3,034,890.
Land, Edwin H. 3,047,387.
Land, Edwin H. 3,053,659.
Land, Edwin H. 3,069,266.
Land, Edwin H., and Grey. 3,056,342.
Land, Edwin H., Grey, and Wolff. 3,032,008.
Oster, Gerald. 3,019,104.
Rogers, Howard G. 3,015,561.
Rogers, Howard G. 3,019,124.
Rogers, Howard G. 3,061,453.

Polaroid Corp.: *See*—Continued
Rogers, Howard G. 3,065,074.
Rogers, Howard G., and Lutes. 3,039,869.
Ryan, William H., and Farney. 3,058,393.
Shurcliff, William A. 3,037,423.
Wareham, Richard R. 3,060,821.
Wareham, Richard R., and Wolff. 3,016,175.
Whittier, Sidney B. 3,018,707.
Wolff, Otto E. 3,053,660.

Polasik, Joseph G.: *See*—
Gibbs, Thomas B., and Polasik. 3,068,334.

Poleschuk, Stephen. Extrusion press. 3,025,959, 3–20–62, Cl. 207—2.

Poletika, Nicholas V., and R. E. Black, to Union Lumber Co. System for making pads from bark fibers. 3,042,977, 7–10–62, Cl. 19—144.5.

Poletto, John F.: *See*—
Weiss, Martin J., Poletto, and Kissman. 3,069,417.

Polgar, Claude A. V. Set of mechanical multiple use individual parts adapted to be directly assembled one with another. 3,033,598, 5–8–62, Cl. 287—54.

Polglase, Burton C., Jr., to R. Hoe & Co., Inc. Multicolor web offset press. 3,041,966, 7–3–62, Cl. 101—139.

Polhamus, Edward C.: *See*—
Alford, William J., Jr., and Polhamus. 3,053,484.

Polhemus, Von D., and M.-C. Yew, to General Motors Corp. Vehicle suspension spring assembly. 3,046,000, 7–24–62, Cl. 267—64.

Poliak, Jean: *See*—
Ehrlich, Maximilian, and Poliak. 3,030,479.

Polich, Anthony, Jr. Method and apparatus for weighing. 3,017,938, 1–23–62, Cl. 177—141.

Polidor, Edward C., to Automation Gages, Inc. Airfoil checker. 3,040,437, 6–26–62, Cl. 33—175.

Polin, Herbert S., to Vacuum Baking Corp. In-can baking process and product. 3,027,262, 3–27–62, Cl. 99—172.

Polin, Herbert S., to Vacuum Baking Corp. Process of baking in-can baked products. 3,063,846, 11–13–62, Cl. 99—182.

Polinko, George, Jr., to General Electric Co. Shield mounting arrangement for a vacuum circuit interrupter. 3,048,-663, 8–7–62, Cl. 200—144.

Polis, Samuel, to Mobay Chemical Co. Polyurethane catalyst composition and method for preparing cellular polyurethane using same. 3,044,971, 7–17–62, Cl. 260—2.5.

Politi, Robert E.: *See*—
Plasse, Paul A., and Politi. 3,027,271.

Politis, James. Valve closure for wind instruments. 3,068,-736, 12–18–62, Cl. 84—380.

Polizzano, Fred F., to General Cable Corp. Anchoring of metallic sheathed cables. 3,069,490, 12–18–62, Cl. 174—65.

Poljak, Alexander: *See*—
Priewe, Hans, Poljak, and Junkman. 3,047,466.

Polk, Isaac H., to Cyclomatic Freezing Systems, Inc. Planiform faced vessels. 3,024,521, 3–13–62, Cl. 29—157.3.

Polk, Isaac H., to The Texstar Corp. Means for freeing a row of packages frozen to another row. 3,037,365, 6–5–62, Cl. 62—341.

Polk, John F. Coat. 3,026,527, 3–27–62, Cl. 2—94.

Polk, Ralph, Jr.: *See*—
Belk, Wilber C., and Polk. 3,045,729.

Polk, Ralph, Jr. Method and means for preparing envelopes for postal marking. 3,024,728, 4–17–62, Cl. 101—232.

Polk Ralph, Jr. Apparatus for sectionizing citrus fruit. 3,030,990, 4–24–62, Cl. 146—3.

Polk, Ralph, Jr. Apparatus for processing fruit. 3,031,067, 4–24–62, Cl. 198—209.

Pollack, John E.: *See*—
McLane, Fletcher E., Pollack, and Cochran. 3,023,351.

Pollack, Joseph: *See*—
Pollack, Selig and J. 3,034,661.

Pollack, Selig, to Seljo Development Corp. Boom and jib assembly. 3,062,384, 11–6–62, Cl. 212—144.

Pollack, Selig and J., to Seljo Development Corp. Beam jib and crane assembly. 3,034,661, 5–15–62, Cl. 212—59.

Pollack, Shirley, and D. Finsilver. Shower cap. 3,019,444, 2–6–62, Cl. 2—68.

Pollack, Solomon, to Eureka Products Corp. Holder attachment for wall telephone box. 3,038,039, 6–5–62, Cl. 179—146.

Pollak, Abraham. Submersible sump pump assemblies. 3,046,900, 7–31–62, Cl. 103—87.

Pollak, Alfred: *See*—
Bruch, Walter, Reker, and Pollak. 3,032,720.

Pollak, Frederick F., to The Marblette Corp. Production of reaction products of methylol urea with ammonium containing compounds. 3,027,365, 3–27–62, Cl. 260—239.

Pollak, Joseph: *See*—
Wittman, Emil A., and Pollak. 3,059,952.

Pollak, Joseph, Corp.: *See*—
Greshel, Leonard J. 3,025,370.

Pollak, Peter I.: *See*—
Barkemeyer, Henry R., McAleer, and Pollak. 3,063,871.

Pollak, Peter I., to Merck & Co. Inc. Process for producing pyridoxine and intermediates. 3,024,244, 3–6–62, Cl. 260—295.

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Pollak, Robert J., to Allis-Chalmers Mfg. Co. Gyratory crusher. 3,063,649, 11–13–62, Cl. 241—299.

Pollakm, Abraham. Switch actuating mechanism for submersible sump pumps. 3,050,605, 8–21–62, Cl. 200—168.

Pollan, David, to Viewlex, Inc. Powerized automatic slide projector. 3,015,251, 1–2–62, Cl. 88—28.

Pollard, Charles E., Jr.: *See*—
Hellstrom, Edward C., and Pollard. 3,048,677.
O'Brien, William D., and Pollard. 3,054,873.

Pollard, Charles E., Jr., to Bell Telephone Laboratories, Inc. Means for preventing contact sticking in mercury contact switches. 3,018,354, 1–23–62, Cl. 200—166.

Pollard, Clemouth E.: *See*—
Franklin, Burton P., and Pollard. 3,044,794.

Pollard, Graham H., and H. A. Doherty, to Eastman Kodak Co. Camera carrying case. 3,033,258, 5–8–62, Cl. 150—52.

Pollart, Kenneth A.: *See*—
Harwood, Harold J., and Pollart. 3,053,900.

Pollauf, Joseph F., and F. F. Voltz. Hydraulic elevators. 3,032,017, 5–1–62, Cl. 121—46.

Polley, Eugene J., to Zenith Radio Corp. Turret tuner with fine tuning control. 3,058,075, 10–9–62, Cl. 334—51.

Polley, Eugene J., to Zenith Radio Corp. Control apparatus. 3,070,736, 12–25–62, Cl. 318—467.

Polleys, Owen F., D. J. Payton, and D. W. Robinson, Jr., to The Kansas Aircraft Corp. Aerial device having rotor for retarding descent. 3,016,217, 1–9–62, Cl. 244—138.

Pollick, Frank. Cover for paper coffee cup. 3,057,537, 10–9–62, Cl. 229—43.

Pollitt, Paul S., to J. Moores & Sons Ltd. Manufacture of hat blocks. 3,030,780, 8–28–62, Cl. 18—34.

Pollitz, Harold C., to Iowa Mfg. Co. Surfacing machine control means. Re. 25,275, 10–30–62, Cl. 94—46.

Pollitz, Harold C., to Iowa Mfg. Co. Screen box with sealing means. 3,047,152, 7–31–62, Cl. 209—372.

Pollitz, Harold C., to Iowa Mfg. Co. Shaft flexure accommodating device. 3,061,317, 10–30–62, Cl. 277—32.

Pollitzer, Ernest L., to Universal Oil Products Co. Stabilization of burner oil. 3,017,258, 1–16–62, Cl. 44—72.

Pollitzer, Ernest L., to Universal Oil Products Co. Preventing heat exchange deposits. 3,017,343, 1–16–62, Cl. 208—48.

Pollitzer, Ernest L., to Universal Oil Products Co. Hydrocarbon oil composition. 3,017,358, 1–16–61, Cl. 252—32.5.

Pollitzer, Ernest L., to Universal Oil Products Co. Corrosion inhibitors. 3,029,127, 4–10–62, Cl. 21—2.7.

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Pollitzer, Ernest L., to Universal Oil Products Co. Amine-epihalohydrin-alkylene polyamine reaction product. 3,031,-505, 4–24–62, Cl. 260—584.

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Pollmann, Max, to Hauni-Werke Korber & Co. K.G. Device for transferring rod shaped articles such as cigarettes, filter bodies therefor and similar articles from one rotary delivery drum to another rotary receiving drum. 3,039,-587, 6–19–62, Cl. 198—22.

Pollmeier, Felix: *See*—
Rustemeyer, Hans, and Pollmeier. 3,015,862.

Pollock, Charles R.: *See*—
Nelson, George, and Pollock. 3,027,195.
Nelson, George, and Pollock. 3,032,307.

Pollock, Daniel: *See*—
Finch, Donald I., Korostoff, and Pollock. 3,017,269.

Pollock, Gordon J.: *See*—
Fowles, Gilbert L., and Pollock. 3,033,330.

Pollock, Gordon J., and G. L. Fowles, to The E. F. Hauserman Co. Panel assembly. 3,026,977, 3–27–62, Cl. 189—34.

Pollock, Harold V. B. Cushion material. 3,059,251, 10–23–62. Cl. 5—361.

Pollock, John M., to Imperial Chemical Industries Ltd. Manufacture of organic orthosilicates. 3,055,926, 9–25–62, Cl. 260—448.8.

Pollock, John M., to Imperial Chemical Industries Ltd. Preparation of organic orthosilicates from silicon tetrafluoride. 3,055,927, 9–25–62, Cl. 260—448.8.

Pollock, John S.: *See*—
Gnage, Oliver W., and Pollock. 3,017,132.
Maksymiak, John, and Pollock. 3,021,041.
McAdam, Ralph E., Letzer, and Pollock. 3,025,758.

Pollock, Lyle W.: *See*—
Bethea, Charles F., and Pollock. 3,032,478.

Pollock, Lyle W., to Phillips Petroleum Co. Method for controlling the temperature in a butadiene polymerization process. 3,057,840, 10–9–62, Cl. 260—94.3.

Pollock, Lyle W., and J. Q. Wood, to Phillips Petroleum Co. Wet pelleting process and apparatus. 3,018,171, 1–23–62, Cl. 23—314.

Pollock, Mark W.: *See*—
Hecker, Arthur C., Knoepke, Leistner, and Pollock. 3,056,824.
Hecker, Arthur C., Pollock, and Rabinovicl. 3,028,352.

Pollock, Orthello B., to Reynolds Metals Co. Plastic film roll system. 3,016,137, 1–9–62, Cl. 206—58.

Pollock, Samuel C., to General Motors Corp. Vehicle headlight cleaning system. 3,058,142, 10–16–62, Cl. 15—250.2.

Pollock, William. Boilable and edible food packaging. 3,062,664. 11–6–62, Cl. 99—171.

Pollock, William E.: *See*—
Simon, Joseph, and Pollock. 3,051,943.

Polmanteer, Keith E., and E. D. Brown, to Dow Corning Corp. Low temperature fluorinated organosilicon rubber. 3,050,492, 8–21–62, Cl. 260—37.
Polo, Raymond, to Fabriques Movado. Arrangement for the winding and time-setting of a watch. 3,064,415, 11–20–62, Cl 58—6d.
Polomski, John B., to Borg-Warner Corp. Braking system. 3,017,788. 1–23–62, Cl. 74—732.
Poloron Products, Inc.: *See*—
Brown, Robert P. 3,070,253.
Polos, Constantine D., to Gregory Industries, Inc. Tooling and method of installing expansion shells. 3,049,358, 8–14–62, Cl. 279—102.
Polovitch, Michael. Drip control for projecting air conditioners. 3,058,318, 10–16–62, Cl. 62—289.
Polowczyk, Carl: *See*—
Pattilloch, Donald K., and Polowczyk. 3,022,213.
Polsky, Irving, and J. L. Beasley. Golf club head attachment. 3,021,141, 2–13–62, Cl. 273—194.
Polson, Virgil L. Propeller guard. 3,027,864, 4–3–62, Cl. 115—42.
Polster, Morton A., to General Railway Signal Co. Detector for high-speed traffic. 3,030,608, 4–17–62, Cl. 340—38.
Polster, Morton A., to General Railway Signal Co. Ultrasonic vehicle detection system. 3,046,519, 7–24–62, Cl. 340—38.
Polster, Morton A., to General Railway Signal Co. Ultrasonic vehicle detection system. 3,046,520, 7–24–62, Cl. 340—39.
Polster, Morton A. Wind indicators for vessels. 3,049,008, 8–14–62. Cl. 73—188.
Polster, Norman E.: *See*—
Arml, Edgar L., Johnson, Machler, and Polster. 3 062,-047.
Polster, Norman E., to Leeds and Northrup Co. Transistor switching circuits. 3,017,560, 1–16–62, Cl. 321—45.
Poltorak, Emil J., to Johns-Manville Corp. Method and apparatus for forming flexible seals of irregular contour. 3,033,-733, 5–8–62, Cl. 154—1.
Poly Choke Co., Inc., The: *See*—
Grahn, Arne Y. 3,016,613.
Poly Industries, Inc.: *See*—
Guy, Granville M. 3,042,430.
Kaplan, Leo I. 3,031,238.
Kaplan, Leo I. 3,038,699.
Kaplan, Leo I. 3,057,767.
Kaplan, Leo I. 3,058,788.
Kaplan, Leo I. 3,064,327.
Polycarbide Corp.: *See*—
Abos, Ralph L. 3,047,145.
Polychrome Corp.: *See*—
Gumbinner, Robert. 3,029,727.
Mellan, Ibert. 3,050,502.
Polyfiber Ltd.: *See*—
Brown, Eric A. 3,022,110.
Poly-Gas Research and Development Co., Inc.: *See*—
Ryan, Edmund J. 3,063,904.
Polymer Corp. Ltd.: *See*—
Nikolov, Nikolai S., and McLeod. 3,069,382.
Polymer Corp., The: *See*—
Davis, William J. 3,022,542.
Gilles, Richard C. 3,019,210.
Koch, Robert B. 3,023,033.
Nagel, Fritz J. 3,028,251.
Welch, Donald H., McKenzie, and Killey. 3,017,398.
Zimmerli, Robert B. 3,032,816.
Polymer Engineering Corp.: *See*—
Nielsen, Paul O. 3,038,750.
Polymer Processes, Inc.: *See*—
Doggett, Roger H. 3,052,646.
Polyoptic Corp., The: *See*—
Apatoff, William, and Glasser. 3,056,019.
Polyplastic, Societe: *See*—
Landler, Yvan, and Lebel. 3,037,948.
Polysius G.m.b.H., Firma: *See*—
Helming, Bernd H. 3,049,343.
Polytechnic Institute of Brooklyn: *See*—
Griemsmann, John W. E. 3,040,278.
Higgins, Thomas W., Caosuto, and Bruins. 3,018,316.
Polytechnic Research & Development Co., Inc.: *See*—
Hopfer, Samuel. 3,019,386.
Polyton Corp.: *See*—
Kubilunnas, Ignas B. 3,059,821.
Polytran Industries, Inc.: *See*—
Van Dillen, Paul, and MacKay. 3,054,024.
Polzin, Donald H., to Deere & Co. Fertilizer distributor with level responsive flow adjustment. 3,048,304, 8–7–62, Cl. 222—162.
Polzin, Donald H., to Deere & Co. Fertilizer distributor spout support. 3,070,267. 12–25–62, Cl. 222—567.
Polzin, Donald H., and E. J. Quick, to Deere & Co. Fertilizer distributor. 3,028,999, 4–10–62, Cl. 222—189.
Polzin, Earl M.: *See*—
Lakatos, Emory, Holland, and Polzin. 3,047,822.
Pomagalski, Jean. Towing systems for use in water-skiing or ski-yorring. 3,052,470, 9–4–62, Cl. 272—32.
Pomerance, Norman: *See*—
Finkler, Ronald A., Pomerance, Goldman, and Zola. 3,056,111.
Pomerantz, Daniel I., to Clevite Corp. Transistor circuit with double collector. 3,026,424, 3–20–62, Cl. 307—88.5.
Pomerantz, Julius M.: *See*—
Hunter, Thomas D., and Pomerantz. 3,031,116.
Pomerene, James H., to International Business Machines Corp. Checking system for data selection network. 3,045,209, 7–17–62, Cl. 340—147.
Pomerene, James H., to International Business Machines Corp. Asynchronous add-subtract system. 3,058,656, 10–16–62, Cl. 235—153.
Pomerene, James H., and E. J. Slobodzinski, to International Business Machines Corp. Voltage level translating circuit using constant voltage portion of device characteristic. 3,015,351, 1–30–62, Cl. 307—88.5.
Pomerene, James H., and J. Cocke, to International Business Machines Corp. Asynchronous adder-subtractor system. 3,051,387, 8–28–62, Cl. 235—153.
Pomernacki, Henry, to Illinois Tool Works Inc. Spiroid hob. 3,059,317, 10–23–62, Cl. 29—103.
Pomeroy, Frederick A.: *See*—
Bloom, Roy C., and Pomeroy. 3,062,643.
Pomeroy, Orville R.: *See*—
Markusen, David L., McLane, and Pomeroy. 3,045,955.
McLane, Robert C., and Pomeroy. 3,015,459.
Pominski, Joseph: *See*—
Pons, Walter A., Jr., Pominski, and King. 3,062,876.
Pommellet, Olivier: *See*—
Gautier, André, and Pommellet. 3,026,709.
Pommer, Dennis L., to Bemis Bro. Bag Co. Heat-sealed edge joint and method. 3,066,064, 11–27–62, Cl. 156—306.
Pommersheim, Joseph A., to Rockwell Mfg. Co. Gas pressure regulator. 3,042,064, 7–3–62, Cl. 137—116.5.
Pomot, Jean: *See*—
Charle, Roger, and Pomot. 3,055,834.
Pomper, Anthony W., to John Waldron Corp. Coated sheet inserter. 3,034,631, 5–15–62, Cl. 198—20.
Pompey, Victor, to Societe Industrielle Generale de Mecanique Appliquee S.I.G.M.A. Remote control installations for the valves of marine tankers. 3,018,628, 1–30–62, Cl. 60—51.
Pomper, Victor, to Societe Industrielle Generale de Mecanique Appliquee S.I.G.M.A. Hydraulic control systems for agricultural tractors. 3,062 301, 11–6–62, Cl. 172—464.
Pomykala, Edmund S. Process for separating sea salts. 3,055,734, 9–25–62, Cl. 23—89.
Pon, Lemuel. Secondary flow control in fluid deflecting passages. 3,039 736, 6–19–62, Cl. 253—39.
Ponca City Industrial Foundation: *See*—
Hise, Marvin L., and Welch. 3,030,080.
Ponce, Gerald J. Shoe last. 3,060,470, 10–30–62, Cl. 12—136.
Poncel, Eugene E., and J. L. Pauly. Actuator for emergency water equipment. 3,059,814, 10–23–62, Cl. 222—5.
Ponchel, Basil M.: *See*—
Vandergrgh, David G., Binger, and Ponchel. 3,016,885.
Pond, Anthony V., to United Aircraft Corp. Pitch lock disarmer. 3,037,560, 6–5–62. Cl. 170—160 21.
Pond, James W., to The B. F. Goodrich Co. Method of providing a valve in an inflatable tire. 3,017,308, 1–16–62, Cl. 156—120.
Pondexter, Kenneth S. Sharpener and driving means therefor. 3,016,658, 1–16–62, Cl. 51—159.
Pondrom, Walter L.: *See*—
Slater, John M., Wilcox, and Pondrom. 3,062,051.
Ponemon, Warren E., to Lamtex Industries, Inc. Electrically conductive structural element. 3,025,201, 3–13–62, Cl. 154—80.
Pongracz, Friedrich: *See*—
Klein, Karl, and Pongracz. 3,019,027.
Ponjee, Johannes J.: *See*—
Schoot, Cornelis J., Kwassens, and Ponjee. 3,045,050.
Schoot, Cornelis J., Klaassens, and Ponjee. 3,060,176.
Pons, Walter A., Jr., J. C. Kuck, and V. L. Frampton, to United States of America, Agriculture. Process for bleaching off-color cottonseed oils. 3,036,102, 5–22–62, Cl. 260—424.
Pons Walter A., Jr., J. Pominski, and W. H. King, to United States of America, Agriculture. Process for recovery of gossypol from cottonseed gums. 3,062,876, 11–6–62, Cl. 260—520.
Pont-A-Mousson, Compagnie de: *See*—
Brunot, Jean-Paul. 3,023,641.
Claudon, Jean H. A. 3,027,777.
Demalander, Roger. 3,022,982.
Driancourt, Jean E. 3,020,054.
Lorang, Pierre E. 3,056,179.
Montignot, Francois H. 3,019,834.
Vigneron, Pierre P. 3,036,372.
Vuillien, Georges J. J. 3,057,394.
Pontarelli, Donald A.: *See*—
Kapany, Narinder S., Pontarelli, and Joseph. 3,045,223.
Pontecorvo, Nicholas E.: *See*—
Elder, Boyd B., and Pontecorvo. 3,041,153.
Pontius, Rex B.: *See*—
Booth, Eugene T., Jr., Pontius, Jacobsohn, and Slade. 3,024,009.
Pook, Bernard T. T., to Chemring Ltd. Lazy-tongs mechanisms, with particular application to foldable ladders. 3,025,925. 3–20–62, Cl. 182—157.
Pool, Charles H.: *See*—
Certa, Anthony J., and Pool. 3,041,198.
Pool, Creighton E.: *See*—
Bochan, John, and Pool. 3,026,700.
Pool, William O., to Don Baxter, Inc. Intravenous nourishment of patients. 3,067,098, 12–4–62, Cl. 167—58.
Poole, Arthur J.: *See*—
Musat, George, and Poole. 3,049,085.

Poole, Arthur J., to The Babcock & Wilcox Co. Combination oil and gas burner. 3,067,808, 12–11–62, Cl. 158—11.
Poole, Davis, M.: *See*—
Young Gale J., and Poole. 3,047,479.
Poole, Edward M. and D. C Schiuderberg, to The Babcock & Wilcox Co. Method of operating a nuclear reactor. 3,063,-926, 11–13–62 Cl. 204—193.2.
Pooie, Henry G.: *See*—
Nachtman, John S., and Poole. 3,020,151.
Poole, Henry G., and A. D. Abraham, to Oregon Metallurgical Corp, Furnace construction. 3,053,919, 9–11–62, Cl. 13—8.
Poole, Jack and V. J. Means for starting automobiles. 3,053,-989, 9–11–62, Cl. 290—37.
Poole, John A. Retroreflective composition and method of applying same. 3,036,928, 5–29–62, Cl. 117—33.
Poole, John W.: *See*—
Anderson, William P., and Poole. 3,061,315.
Poole, Kenneth M., P. K. Tien, and J. A. Weiss, to Bell Telephone Laboratories, Inc. Gyromagnetic amplifier with parallel pumping. 3,044,021, 7–10–62, Cl. 330—56.
Poole, Myron C., to Revolvex Corp. Mobile home. 3,052,932, 9–11–62, Cl. 20—53.
Poole, Ronald E., to International Telephone and Telegraph Corp. Variable pulse width generating system. 3,048,714, 8–7–62, Cl. 307—88.5.
Poole, Ronald R., to General Motors Corp. Centrifugal clothes drier. 3,057,480. 10–9–62, Cl. 210—368.
Poole, Viva J.: *See*—
Poole, Jack and V. J. 3,053.989.
Poole, Wade H., and M. S. Montalbano. Detection of transpositions in digital numbers. 3,040,296, 6–19–62, Cl. 340—147.
Poole, Warren A.: *See*—
Maglio, Robert A., and Poole. 3,056,663.
Poole, William D.: *See*—
Hayden, Ralph L., and Poole. 3,040,999.
Poon, George S. Y., to Standard Chemical Products, Inc. Melamine urea formaldehyde resinous compositions. 3,067,-176, 12–4–62, Cl. 260—67.6.
Poor & Co.: *See*—
Gallagher, John J. 3,059,855.
Groff, Emory L. 3,027,092.
Liebenthal, John H. 3,019,988.
Liebenthal, John H. 3,044,709.
Margrar, Philbert S. 3,044,710.
McWilliams, James B. 3,015,370.
Sears, Chester G., and Butterworth. 3,016,203.
Trudeau, Francis E. 3,053,579.
Poore, Wallace P., and H. C. May, to Westinghouse Air Brake Co. Apparatus for controlling a plurality of compressors. 3,035,757, 5–22–62, Cl. 230—2.
Poorman, John E., deceased, by D. E. Kurtz, executrix, to Somma Tool Co., Inc. Swing tool holder. 3,062,080, 11–6–62, Cl. 82—24.
Poorman, Richard M.: *See*—
Haettinger, George C., and Poorman. 3,059,114.
Poorman, Richard M., G. C. Haettinger, and R. F. O'Connell, to Union Carbide Corp. Infra-red detection apparatus. 3,066,222, 11–27–62, Cl. 250—83.3.
Poorter, Teunis: *See*—
Kaashoek, Johannes, and Poorter. 3,051,912.
Poorter, Teunis, to North American Philips Co., Inc. Circuit arrangement for the image-deflection and line-deflection coils of at least two cathode-ray tubes. 3,015,691, 1–2–62, Cl. 178—7.5.
Poorter, Teunis, to North American Philips Co., Inc. Transistor-amplifying cascade of low noise level. 3,034,067, 5–8–62, Cl. 330—25.
Poorter, Teunis, and J. J. P. Valeton, to North American Philips Co., Inc. Circuit for adjusting the background brightness in television reproducing device. 3,015,751, 1–2–62. Cl. 315—13.
Poos, George I., to McNeil Laboratories, Inc. 1,5-bis-(trans-2-hydroxvcyclohexyl)-2 - transhexahydro - benzoxazolidene biguanide and process. 3,037,989. 6–5–62, Cl. 260—307.
Poos, George I. and A. P. Roszkowski, to McNeil Laboratories, Inc. Hypertensive 2-amino-3a,4,5,6,7,7a-hexahydrobenzoxazole method and topical dosage preparation. 3,028,-306, 4–3–62, Cl. 167—65.
Popa, John: *See*—
Genuit, Luther L., and Popa. 3,037,147.
Popaduk, George F., to Philco Corp. Signal amplifier system. 3,025,474, 3–12–62, Cl. 330—160.
Pope, Bill J.: *See*—
Dale, Allan L., Orul'ian, and Pope. 3 051,433.
Pope, Charles E., to The Sherwin-Williams Co. Apparatus for producing multi-component surface coatings. 3,055,-596, 9–25–62, Cl. 239—407.
Pope, Harold R. Weighted tape compass. 3,035,352, 5–22–62, Cl. 33—27.
Pope, Kenneth E., to Globe Industries, Inc. Accelerometer. 3,048,042. 8–7–62, Cl. 73—516.
Pope, Louis A., ¼ to R. E. Lutz. Bottle stopper. 3,028,985, 4–10–62. Cl. 215—52.
Pope, Stanley V.: *See*—
Grillon, August B., Holland, Pope, and Steigleder. 3,045 619.
Popeck, Stanley P.: *See*—
Dersch, Fritz, and Popeck. 3,021,213.
Popeck, Stanley P., F. Dersch and W. A. Wurth, Jr., to General Aniline & Film Corp. Photographic materials. 3,044,-874, 7–17–62, Cl. 96—67.
Popelak, Alfred, and G. Lettenbauer, to C. F. Boehringer & Soehne G.m.b.H. 9-phenyl octahydroindole compounds and process of making same. 3,028,394, 4–3–62, Cl. 260—319.
Popielski, Daniel A.: *See*—
Beaulieu, Raymond D., Nemphos, and Popielski. 3,069,-361.
Galbraith, Albert D., and Popielski. 3,069,369.
Popiolek, Wladislas: *See*—
Bates, Harold, Hindley, and Popiolek. 3,040,027.
Popkin, Alexander H., to Esso Research and Engineering Co. Leaded gasolines. 3,034,877, 5–15–62, Cl. 44—69.
Popkin, Alexander H., to Esso Research and Engineering Co. Anti-knock gasoline. 3,047,372, 7–31–62, Cl. 44—63.
Poplar Textiles, Inc.: *See*—
Verlin Bernard M. 3,044,617.
Popoff, Charlotte S.: *See*—
Smith, Robert K., and Popoff, 3,041,280.
Popoff, Ivan C., and H. E. Albert, to Pennsalt Chemicals Corp. Novel antioxidants and antiozonants. 3,035,014, 5–15–62, Cl. 260—45.9.
Popovich, George, and Y. W. Owen, to General Motors Corp. Transmission control linkage. 3,064,493, 11–20–62, Cl. 74—473.
Popovitsch, Ernst: *See*—
Ruhrmann, Josef, Streicher, and Popovitsch. 3,015,868.
Ruhrmann, Josef, Streicher, and Popovitsch. 3,054,171.
Popovitsch, Ernst, to Talon, Inc. Apparatus for assembling stringers for slide fasteners. 3,054,364, 9–18–62, Cl. 112—2.
Popowitz, Bruno, to Robinson Furniture Co. Theft-proof television swivel. 3,067,976, 12–11–62, Cl. 248—349.
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Poppelbaum, Wolfgang J., to United States of America, Atomic Energy Commission. Flow gating. 3,067,339, 12–4–62, Cl. 307—88.5.
Poppelsdorf, Fedor, to Union Carbide Corp. Process for separating 1-methylhomopiperazine and homopiperazine. 3,040,028, 6–19–62, Cl. 260—239.
Poppelsdorf, Fedor, and R. C. Myerly, to Union Carbide Corp. Preparation of homopiperazine and alkyl-substituted derivatives thereof. 3,040,029, 6–19–62, Cl. 260—239.
Popper, Robert H. Book positioning apparatus. 3,028,701, 4–10–62, Cl. 45—58.
Porambo, Francis E., to Franchett's Crullers, Inc. Automatic cruller machine. 3,060,837. 10–30–62, Cl. 99—353.
Porcel Engineering Co., The: *See*—
Hasekamp, Lester W. 3,045,784.
Porciuncula, Domingo E.: *See*—
Chase, Walter M., Gustafson, Hall, Kievens, Campbell, and Porciuncula. 3,031,615.
Porck, Alfred J.: *See*—
Zeller, Carl N., and Porck. 3,021,320.
Porembka, Stanley W., Jr.: *See*—
Stacy, John T. 3,032,492.
Porepp, Hans, to Opti-Werk G.m.b.H. Co. Terminal for wire-coil slide fasteners. Re. 25,170, 5–15–62, Cl. 24—205.11.
Porepp, Hans, to Opti-Holding A.G. Sliding-clasp fasteners. 3,069,736, 12–25–62, Cl. 18—10.
Porges, Frederick B., to Flexibox Ltd. Mechanical seals. 3,051,498, 8–28–62, Cl. 277—93.
Porkka, Eero J. Adjustable stool. 3,058,715, 10–16–62, Cl. 248—409.
Porland, Kjeld R., to Danfoss ved ingenior Mads Clausen. Mixing valves for hot and cold water installations. 3,033,-464, 5–8–62, Cl. 236—12.
Porland, Kjeld, to Danfoss ved ingenior Mads Clausen. Thermo-electrically gas shut-off unit with safety pilot. 3,070,155, 12–25–62, Cl. 158—131.
Porland, Kjeld, and C. Sorensen, to Danfoss ved Ingenior Mads Clausen. Thermostatic regulating device. 3,063,640, 11–13–62 Cl. 236—99.
Porowski, Casimer P., to General Electric Co. Thrust reverser actuating mechanism. 3,035,411, 5–22–62, Cl. 60—35.54.
Porrata, Louis R.: *See*—
Bachman, William S., and Porrata. 3,055,989.
Porret, Daniel: *See*—
Batzer, Hans, Fisch, and Porret. 3,028,385.
Porret, Daniel, and A. Maeder, to Ciba Ltd. Process for the manufacture of solid monomeric carboxylic acid amides. 3,028,426, 4–3–62, Cl. 260—561.
Porri, Lido: *See*—
Natta, Giulio, Porri, and Fiore. 3,016,371.
3,015,619.
Porsche, Dr.-Ing. h.c.F., K.G.: *See*—
Eyb, Wolfgang. 3,026,124.
Forstner, Egon, and Binder. 3,017,943.
Hoenick, Hans. 3,017,113.
Hoenick, Hans. 3,060,902.
Hoenick, Hans, and Grewing. 3,062,060.
Hoenick, Hans and Stutz. 3,037,395.
Komenda, Erwin. 3,068,043.
Komenda, Erwin. 3,068,045.
Komenda, Erwin. 3,070,401.
Komenda, Erwin, and Blaschka. 3,031,224.
Mayr Otmar. 3,047,086.
Porsche, Ferdinand, and Komenda. 3,042,444.
Porsche, Ferdinand, Komenda, and Blaschka. 3,047,331.
Porsche, Ferdinand, Rabe, and Eberle. 3,049,930.
Ruoff, Karl. 5,037,597.
Schmid, Leonold F. 3,038,459.
Spannagel, Hans, and von Ruecker. 3,051,271.
Wagner, Max, and Schubert. 3,025,843.

Porsche, Ferdinand, and E. Komenda, to Dr. Ing. h.c.F. Porsche, K.G. Motor vehicle body construction. 3,042,444, 7–3–62, Cl. 296—28.

Porsche, Ferdinand, E. Komenda, and F. Blaschka, to Dr.-Ing. Porsche h.c.F., K.G. Frame construction for vehicles. 3,047,331, 7–31–62, Cl. 296—24.

Porsche, Ferdinand, K. Rabe, and W. Eberle, to Dr.-Ing. Porsche, h.c.F., K.G. Power-transmission unit, especially for tractors. 3,049,930, 8–21–62, Cl. 74—15.84.

Port, John J., Jr., and F. L. J. Rehfeld, to Modern Equipment Co. Apparatus for pouring molten metal. 3,058,180, 10–16–62, Cl. 22—79.

Port, William S.: *See*—
Maerker, Gerhard, and Port. 3,053,855.
Maerker, Gerhard, and Port. 3,069,441.

Portable Electric Tools, Inc.: *See*—
Davis, Walter B. 3,043,351.

Portable Elevator Mfg. Co.: *See*—
Matheson, William A., and Henninger. 3,037,612.

Portage Machine Co.: *See*—
Schiler, Frederick S. 3,069,778.

Portapavilion Structures, Ltd.: *See*—
Greenble, Barrie B. 3,017,893.

Porta-Trace, Inc.: *See*—
Huribut, Gordon K. 3,050,108.

Port Clinton Mfg. Co.: *See*—
Bracka, Clarence L. 3,015,245.

Portelli, Frank, Screw lift for shoes. 3,034,234, 5–15–62, Cl. 36—36.

Porter, Allan W. H., to Hobourn-F.N.F. Ltd. Anti-ballooning devices. 3,070,325, 12–25–62, Cl. 242—128.

Porter-Cable Machine Co., The: *See*—
De Man, Heiko T. 3,022,509.
Frostad, Lars. 3,042,924.
Frostad, Lars, and De Man. 3,042,925.
Mittins, Frank W. 3,056,437.

Porter, Charles E. Envelope stripping device. 3,026,239, 3–20–62, Cl. 156—584.

Porter, Forrest V., and M. Surbatovich, to Lane-Wells Co. Formation sampler. 3,043,379, 7–10–62, Cl. 175—2.

Porter, Frank, to Allied Chemical Corp. Extrusion of polyethylene using water as lubricant. 3,066,356, 12–4–62, Cl. 18—55.

Porter, Frank, and A. A. Reventas, to Allied Chemical Corp. Chlorinated high molecular weight polyethylene-coal tar pitch compositions. 3,031,426, 4–24–62, Cl. 260—28.5.

Porter, Frederic E., V. W. McAlpine, and H. E. Kaerwer, Jr.; said Porter and McAlpine assors. to Battelle Memorial Institute. Seed inoculation. 3,054,219, 9–18–62, Cl. 47—1.

Porter, Frederick R., to Schmieg Industries, Inc. Pneumatic sewage ejector. 3,060,863, 10–30–62, Cl. 103—234.

Porter, Frederick W. B.: *See*—
Newby, William J., and Porter. 3,024,186.

Porter, Grady T.: *See*—
Kindred, Raymond L., and Porter. 3,069,896.

Porter, H. K., Co., Inc.: *See*—
Caplan, David M. 3,050,087.
De Lutis, Thomas. 3,019,285.
Franklin, Burton P., and Pollard. 3,044,794.
Galloway, Frederick R. 3,053,724.
Gross, Albert H. 3,053,358.
Johnson, Robert. 3,025,884.
Johnson, Robert. 3,058,204.
Jones, William B. 3,017,760.
Katzfey, James M. 3,036,379.
Kennedy, Frank J. 3,029,187.
Kennedy, Frank J. 3 063,918.
Mageoch, Harry Y., and Childs. 3,060,283.
McCiner, John D. 3,062,678.
Muller, John A. 3,058,493.
Richardson, Joseph W., Jr. 3,058,201.
Rittenhouse, Godfrey J. 3,068,906.
Robinson, Samuel R. 3,017,539.
Roller, Elmer A. 3,044,001.
Szpila, Jerome S. 3,024,494.
Weber, Herman W. 3,019,561.

Porter, Harry J. Submersible heater. 3,051,162, 8–28–62, Cl. 126—360.

Porter, Herbert C., F. J. Terkoski, and H. J. Warner, Jr., to General Motors Corp. Consequent pole electric motor. 3,064,147, 11–13–62, Cl. 310—40.

Porter, Hubert T., and A. Lister, to The British Petroleum Co., Ltd. Regeneration of catalysts. 3,041,290, 6–26–62, Cl. 252—419.

Porter, John W., to General Railway Signal Co. Train order enforcement system. 3,060,311, 10–23–62, Cl. 246—4.

Porter, Lee M.: *See*—
Balas, Jaroslav G., and Porter. 3,040,016.

Porter, Lee M., W. A. Chantry, and R. F. York, to Shell Oil Co. Catalytic oxidation of tertiary butyl toluene and recovery of oxygenated products. 3,050,554, 8–21–62, Cl. 260—524.

Porter, Lee M., and J. G. Balas, to Shell Oil Co. Diene polymerization and catalysts therefor. 3,066,125, 11–27–62, Cl. 260—94.3.

Porter, Lee M., and J. G. Balas, to Shell Oil Co. Diene polymerization catalyst. 3,066,126, 11–27–62, Cl. 260—94.3.

Porter, P. L., Co.: *See*—
Porter, Percy L. 3,051,274.

Porter, Percy L., to P. L. Porter Co. Hydraulic locking device. 3,051,274, 8–28–62, Cl. 188—96.

Porter, Richard E.: *See*—
Crawford, Arthur R., Rushin, Porter, and Ryan. 3,030,813.

Porter, Robert W., to John Green Press, Inc. Filing device and method of operation. 3,043,734, 7–10–62, Cl. 156—249.

Porter, Samuel J., and A. T. Wilson, to United States of America, Navy. Armor piercing incendiary projectile. 3,028,808, 4–10–62, Cl. 102—52.

Porter, Sigmund N.: *See*—
Glaser, Peter S., Hudson, Edwards, and Porter. 3,040,985.

Porter, Victor B.: *See*—
Hesher, Neil R., and Porter. 3,067,711.

Porter, Virgie E.: *See*—
Kasper, Frank S., and Porter. 3,067,936.

Porter, William H., to Samuel M. Langston Co. Control means for adjusting slitter scorer mechanism in response to lateral displacements of a moving web. 3,036,483, 5–29–62, Cl. 83—74.

Porterfield, Cecil P., to Elox Corp. of Michigan. Direct current charging circuit. 3,024,406, 3–6–62, Cl. 320—1.

Porterfield, Cecil P., to Elox Corp. of Michigan. Spark machining methods and apparatus. 3,056,065, 9–25–62, Cl. 315—207.

Porterfield, Jack N., to Coors Porcelain Co. Transfer mechanism. 3,016,153, 1–9–62, Cl. 214—1.

Porterfield, Jack N., to Coors Porcelain Co. Method of continuously casting strips from molten metal and making slugs therefrom. 3,038,250, 6–12–62, Cl. 29—529.

Porterfield, Jack N., to Coors Porcelain Co. Metal bar shears. 3,038,362, 6–12–62, Cl. 783—317.

Port Huron Sulphite & Paper Co.: *See*—
Blair, John A. 3,037,795.

Portis, Ralph G., to Midland Mfg. Corp. Relief valve. 3,035,604, 5–22–62, Cl. 137—327.

Portland Iron Works: *See*—
Pearson, Harry C. 3,019,882.

Portland Wire & Iron Works: *See*—
Fingerut, Boris M. 3,036,858.

Portman, Donald G.: *See*—
Portman, Stephen A., and Portman. 3,018,464.

Portman, Merrill A.: *See*—
Balne, Harry J. 3,068,002.

Portman, Merrill A. Push and pull exercising device. 3,068,001, 12–11–62, Cl. 272—79.

Portman, Merrill A., and H. J. Balne; said Balne assor. to said Portman. Exerciser. 3,068,003, 12–11–62, Cl. 272—79.

Portner, Harry. Flood control system. 3,017,895, 1–23–62, Cl. 137—115.

Portz, Willi: *See*—
Wimmer, Rudolf, Wirtz, Portz, Fischer, and Schilken.

Portz, William E., to True Temper Corp. Fishing rod handles. 3,034,798, 5–15–62, Cl. 279—42.

Portz, William E., and G. W. Yearley, to True Temper Corp. Adhesive connection for tool handle. 3,018,140, 1–23–62, Cl. 306—22.

Pos, Julius, 10% to Irving Kayton. Devices and methods for dental bites and impressions. 3,064,354, 11–20–62, Cl. 32—19.

Posavic, Michael J. Pocket ash tray and cigarette package case. 3,018,877, 1–30–62, Cl. 206—38.

Poschman, William M., II. Circuit breaker with timing control. 3,026,384, 3–20–62, Cl. 200—38.

Poschmann, Franz: *See*—
Baumann, Heinrich, Graf, and Poschmann. 3,037,903.

Poser, Johann: *See*—
Poddig, Hugo, and Poser. 3,038,567.

Posh, Raymond C.: *See*—
Latimer, Thomas H., and Posh. 3,066,907.

Posh, Raymond C., to American Metal Products Co. Variable pitch fan blade. 3,044,557, 7–17–62, Cl. 170—160.5.

Posnansky, Karl W., to The Stamford Rubber Supply Co. Preparation of organic plastic materials. 3,031,422, 4–24–62, Cl. 260—23.

Posner, Reuben A.: *See*—
Reese, Henry W. 3,062,715.

Pospischil, Reginhard, and W. Hulsebus, to Siemens & Halske Aktiengesellschaft. Dual push-pull modulator. 3,064,209, 11–13–62, Cl. 332—43.

Pospiszel, Joseph T., to Mohasco Industries, Inc. Spindle with automatic locking means. 3,038,679, 6–12–62, Cl. 242—68.2.

Posselt, Edward J.: *See*—
Newman, John M., and Posselt. 3,017,555.

Posselt, Edward J., to Cutler-Hammer, Inc. Motor control systems. 3,059,160, 10–16–62, Cl. 318—57.

Posselt, Frederick W., and L. N. Stanley, to General Aniline & Film Corp. Ice color coupling component composition. 3,029,122, 4–10–62, Cl. 8—46.

Posselt, Kurt H. B.: *See*—
Murray, John B. Posselt, and Long. 3,068,655.

Possis Machine Corp.: *See*—
Possis, Zinon C., Johnson, and Straub. 3,063,475.
Possis, Zinon C., Johnson, and Straub. 3,065,771.
Possis, Zinon C., Straub, Lobash, Johnson, and Solem. 3,063,212.

Possis, Zinon C., M. J. Straub, F. Lobash, W. E. Johnson, and C. E. Solem, to Possis Machine Corp. Tapping machine. 3,063,212, 11–13–62, Cl. 53—198.

Possis, Zinon C., W. E. Johnson, and M. J. Straub, to Possis Machine Corp. Winding machine structure. 3,063,475, 11–13–62, Cl. 140—92.1.

Possis, Zinon C., W. E. Johnson, and M. J. Straub, to Possis Machine Corp. Coil winding machine. 3,065,771, 11–27–62, Cl. 140—92.1.

Posson, Donald G., ½ to R. D. La Penta. Adaptor for wheel balancing device. 3,058,712, 10–16–62, Cl. 248—205.

Post, Benjamin G., S. Marple, Jr., and K. G. Arabian, to Shell Oil Co. Wax compositions. 3,036,024, 5–22–62, Cl. 260—28.5.

Post, Clarence. Portable bunk feeder. 3,043,455, 7–10–62, Cl. 214—83.36.

Post, Daniel, to United Aircraft Corp. Optical pressure transducer. 3,040,583, 6–26–62, Cl. 73—408.

Post, Frederick L., to International Business Machines Corp. Magnetic memory element and system. 3,059,224, 10–16–62, Cl. 340—174.

Post, Gerald : *See*—
Hilpman, Paul, and Post. 3,048,261.

Post, Harold P. Secretarial cabinet. 3,070,416, 12–25–62, Cl. 312—241.

Post, Herman D. Tape splicer. 3,043,364, 7–10–62, Cl. 156—505.

Post, Herman D. Detachable clip arrangement for film strip. 3,050,184, 8–21–62, Cl. 206—53.

Post, Lloyd P., and R. J. Shanahan, to Klekhaefer Corp. Engine exhaust manifold construction. 3,020,707, 2–13–62, Cl. 60—31.

Post, Ralph A., Jr. : *See*—
Frohman, Robert, Post, and Faber. 3,052,842.

Post, Richard F. : *See*—
Hartwig, Edward C., Cummings, and Post. 3,015,748.

Post, Richard F., to United States of America, Atomic Energy Commission. Stellarator injector. 3,052,617, 9–4–62, Cl. 204—193.2.

Post, Richard F., and F. H. Coensgen, to United States of America, Atomic Energy Commission. Apparatus for the densification and energization of charged particles. 3,069,-344, 12–18–62, Cl. 204—193.2.

Post, Richard G., to Federal Industries, A Textron Co. Storage pallets. 3,053,492, 9–11–62, Cl. 248—120.

Post, William P., to Metal Containers Ltd. Sheet metal working apparatus. 3,062,262, 11–6–62, Cl. 153—2.

Postal, Robert H., E. Paxson, and W. R. Davidson, to McGraw-Edison Co. Ratiometer. 3,039,055, 6–12–62, Cl. 324—150.

Postell, George P. : *See*—
Morrison, David, and Postell. 3,025,603.
Morrison, David, and Postell. 3,068,331.

Posten, Carl F., and G. E. Ruck, to Continental Can Co., Inc. Lehr loader. 3,040,867, 6–26–62, Cl. 198—31.

Poster Packaging, Inc. : *See*—
Bostrom, John D. 3,066,824.
Bostrom, John D. 3,070,275.

Poster Products, Inc. : *See*—
Cygan, Stanley J. 3,045,961.

Postlewait, James H., E. H. Garnett, and J. R. Root. Lawn mower. 3,068,632, 12–18–62, Cl. 56—26.

Postlewaite, William R., to California Research Corp. Means for offshore drilling. 3,021,909, 2–20–62, Cl. 175—7.

Postlewaite, William R., to California Research Corp. Method and apparatus for offshore drilling. 3,047,078, 7-31-62, Cl. 175—7.

Postma, Gerrit W., to Shell Oil Co. Method for marine electrical prospecting. 3,052,836, 9–4–62, Cl. 324—1.

Postmaster General, Her Majesty's : *See*—
Duerdoth, Winston T. 3,068,421.
French, James A. T. 3,032,747.
Harris, Lionel R. F., and Martin. 3,046,345.
Milne, Frank A. 3,056,858.
Mitchell, Geoffrey. 3,056,961.
Parkin, Bernard G. 3,024,142.

Poston, Arthur L. : *See*—
Platt, William C., and Poston. 3,058,887.

Potash Co. of America : *See*—
Devine, Harold A., and McLaughlin. 3,030,088.
Knill, Raymond R., McLaughlin, Priesnitz, Conder, and Haworth. 3,019,890.
McLaughlin, Asa L., Priesnitz, Haworth, Fleming, Conder, and Frost. 3,052,455.
Schoeld, Edmund A. 3,034,985.
Schoeld, Edmund A., and Egbom. 3,017,028.
Smith, Randal E. 3,048,478.
Smith, Randal E. 3,064,813.

Potash, Norman. Head harness tab for gas mask. 3,043,299, 7–10–62, Cl. 128—141.

Potash, Norman. Resilient valve. 3,063,462, 11–13–62, Cl. 137—223.

Potchen, Joseph A., to Evans Products Co. Support and sealing for lightweight panels. 3,045,293, 7–24–62, Cl. 20—4.

Potdevin Machine Co. : *See*—
Hamilton James S. 3 021.767.
Hummel, Henry E. 3,028,833.

Potenza Donald B. : *See*—
Huylebroeck, Paul B., and Potenza. 3,050,180.

Potgieter, Fred M., to Chain Belt Co. Universal joint for shafts. 3,045,455, 7–24–62, Cl. 64—17.

Poticha, Charles. Toy device. 3,019,555, 2–6–62, Cl. 46—243.

Potlatch Forests, Inc. : *See*—
Bowling, Robert T., Edward, Keller, and Scheelke. 3,017,909.
Smith, John W. 3,038,511.

Potok, Eugene R. : *See*—
Blakney, Robert M., Bode, Neyhart, and Potok. 3,041,-167.

Potomac Iron Works, Inc. : *See*—
Mulitz, Earl. 3,052,332.

Potruch, Robert A., to U.S. Expansion Bolt Co. Plastic anchor-type fastener and driver means for expanding same. 3,022,701, 2–27–62, Cl. 85—24.

Pott, Cyrus D. Apparatus for applying coatings to surfaces of articles. 3,044,442, 7–17–62, Cl. 118—602.

Potter, Charles, to Engelhard Industries, Inc. Fiber forming torch. 3,045,278, 7–24–62, Cl. 18—2.5.

Potter, Claud N., and V. J. Erwin; said Potter assor. of ½ each to R. H. Ehrlich, S. H. Garoanzik, and V. J. Erwin. Masonry chipping machine. 3,067,731, 12–11–62, Cl. 125—3.

Potter, Donald A. ; *See*—
Fisher, John T. and Potter. 3,066,499.

Potter, Francis M., to Sperry Rand Corp. Alternating current fail safe system. 3,024,451, 3–6–62, Cl. 340—253.

Potter, Frederick M., to The Bendix Corp. Constant frequency generator system. 3,056,914, 10–2–62, Cl. 322—40.

Potter, Frederick T., to Ampsco Corp. Insect trap. 3,020,-671, 2–13–62, Cl. 43—139.

Potter, Howell L., to The Fafnir Bearing Co. Method of making and assembling a bearing retainer. 3,026,601, 3–27–62, Cl. 29—148.4.

Potter, Howell L., to The Fafnir Bearing Co. Bearing retainer. 3,027,206, 3–27–62, Cl. 308—201.

Potter Instrument Co., Inc. : *See*—
Armata, Edward J. 3,046,531.
Comstock, George E., 3d. 3,016,207.
Gabor, Andrew. 3,041,478.
Marshall, Charles E. 3,029,352.
Marshall, Charles E. 3,043,997.
Paya, Norman. 3,060,608.
Wasserman, Carl I. 3,024,723.
Wasserman, Carl I. 3,053,427.

Potter, Kenneth F., and A. W. Brown, to American Hoist & Derrick Co. Tower crane attachment. 3,037,641, 6–5–62, Cl. 212—46.

Potter, Marvin M., and R. O. Hill. Paper folding machine with tying means. 3,019,015, 1–30–62, Cl. 270—84.

Potter, Norman M. : *See*—
Fritz, William H., Potter, and Reash. 3,062,986.

Potter, Omer R., and A. T. Peterson, Jr., to Midwest Conveyor Co., Inc. Conveyor trolley. 3,049,083, 8–14–62, Cl. 105—156.

Potter, Ralph M., and M. Aven, to General Electric Co. Electroluminescent phosphor and treatment. 3,017,366, 1–16–62, Cl. 252—301.6.

Potter, Raymond J., and G. B. Toyne, to Bristol Siddeley Engines Ltd. Jet propulsion power plants. 3,028,120, 4–3–62, Cl. 244—15.

Potter, Robert A., to General Motors Corp. Connecting rod assembly. 3,070,392, 12–25–62, Cl. 287—119.

Pottier, Jacques, to Commissariat a l'Energie Atomique. Structure of linear ion accelerators. 3,067,359, 12–4–62, Cl. 315—5.42.

Pottle, Ralph K., to American Can Co. Container. 3,042,-286, 7–3–62, Cl. 229—51.

Pottle, Ralph K., to American Can Co. Machine for manufacturing fibrous container bodies. 3,044,423, 7–17–62, Cl. 112—2.

Pottle, Ralph K., and W. B. Elam, to American Can Co. Container. 3,021,047, 2–13–62, Cl. 229—51.

Pottle, Ralph K., and W. B. Elam, to American Can Co. Container. 3,021,048, 2–13–62, Cl. 229—51.

Pottmann, Walter. Machine for cutting out shoulder pads from blocks of fully poured foamy material. 3,036,484, 5–29–62, Cl. 83—248.

Pottmann, Walter. Machine for cutting out from pieces, in particular shoulder pads from a block of material. 3,036,-485, 5–29–62, Cl. 83—248.

Pottmeyer, Edward W., to Blaw-Knox Co. Tracking mount. 3,050,889, 10–23–62, Cl. 248—183.

Potts, James E. : *See*—
Rugg, Frank M., and Potts. 3,027,346.

Potts, James H., Jr., to United States of America, Navy. Stabilizing fin. 3,019,269, 1–2–62, Cl. 102—3.

Potts, John M., H. W. Elder, and J. F. Anderson, Jr., to Tennessee Valley Authority. Concentrated liquid fertilizers from superphosphoric acid and potassium hydroxide. 3,022,154, 2–20–62, Cl. 71—34.

Potts, John S. Log barker. 3,059,675, 10–23–62, Cl. 144—208.

Potts, Lawrence D. : *See*—
First, Vincent E., Potts, Rice, and Yendall. 3,059,439.

Potts, Lawrence D., to Union Carbide Corp. Process of and apparatus for low-temperature separation of air. 3,066,-494. 12–4–62, Cl. 62—25.

Potzl, Fritz : *See*—
Schmidt, Wolfgang, and Potzl. 3.056.877.

Potzl, Fritz, to North American Philips Co., Inc. High Frequency therapeutic radiator. 3,065,752, 11–27–62, Cl. 128—422.

Potzsch, Helmut, to F. Grebner. Lattice girder. 3,036,676, 5–29–62, Cl. 189—37.

Pouchert, Walter P., to Correct Equipment Corp. Cocktail glass cooler. 3,056,274, 10–2–62, Cl. 62—418.
Pouget, Claude, to International Business Machines Corp. Magnetic core memory making process. 3,068,554, 12–18–62, Cl. 29—155.5.
Pouget, Edmond. Apparatus for setting sleeper screws or track bolts to a predetermined degree of tightness. 3,017,794, 1–23–62, Cl. 81—54.
Pouit, Robert. VTOL aircraft. 3,051,413, 8–28–62, Cl. 244—12.
Pouit, Robert. Hot gas turbines. 3,055,633, 9–25–62, Cl. 253—77.
Poujade, Jules C. J., to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Combustion devices, more particularly for continuous flow reaction propulsion units. 3,035,412, 5–22–62, Cl. 60—39.06.
Poulaillon, Paul, and A. Storm, to Societe Petroliere de Gerance (Sopeg). Devices for stopping pipes containing fluids under pressure. 3,070,129, 12–25–62, Cl. 138—89.
Poullart, Willy H. P., and G. Van Mechelen, to International Standard Electric Corp. Sorting machine. 3,028,958, 4–10–62, Cl. 209—72.
Pouliart, Willy H. P., and G. Van Mechelen, to International Standard Electric Corp. Sorting machine using markers. 3,028,961, 4–10–62, Cl. 209—111.5.
Poulin, Raymond J., ½ to E. H. Rose. Opposed rotor radial piston pumps. 3,043,232, 7–10–62, Cl. 103—161.
Poulin, Raymond J., ½ to E. H. Rose. Opposed-rotor radial piston motor, pump and power generator. 3,043,234, 7–10–62, Cl. 103—161.
Poulin, Raymond J. Automatic injection molding machines. 3,044,115, 7–17–62, Cl. 18—30.
Poulos, Nicholas A., to Olin Mathieson Chemical Corp. Preparation of solid organoboron compounds. 3,030,419, 4–17–62, Cl. 260—606.5.
Poulsen, Jakob E., and C. H. Krayenbuhl, to Nordisk Insulinlaboratorium. Slowly acting insulin preparation in crystalline form and method of preparation. 3,060,093, 10–23–62, Cl. 167—75.
Poulter, Thomas C., D. E. Brink, and P. E. Seaward, to Jet Research Center, Inc. Magnetic concentricity gage. 3,058,058, 10–9–62, Cl. 324—34.
Pounders, Jimmie E., Mobile support for an electric hedge trimmer. 3,016,674, 1–16–62, Cl. 56—236.
Poundstone, William N., to Consolidation Coal Co. Flexible pipe coupling. 3,034,808, 5–15–62, Cl. 285—235.
Poundstone, William N., to Consolidation Coal Co. Belt conveyor. 3,039,596, 6–19–62, Cl. 198—139.
Poundstone, William N., to Consolidation Coal Co. Troughing idler for conveyor belts. 3,068,995, 12–18–62, Cl. 198—192.
Poundstone, William N., V. H. Ream, and S. A. Jones, to Consolidation Coal Co. Rock duster. 3,039,827, 6–19–62, Cl. 302—52.
Pounstone, William N., and G. Raynovich, Jr., to Consolidation Coal Co. Rotary cutting head. 3,069,147, 12–18–62, Cl. 262—26
Poupitch, Ougljesa J., to Illinois Tool Works. Handle device. 3,016,136, 1–9–62, Cl. 206—56.
Poupitch, Ougljesa J., to Illinois Tool Works Inc. Can carrier clip. 3,038,599, 6–12–62, Cl. 206—65.
Poupitch, Vernet V. Computing device. 3,070,310, 12–25–62, Cl. 235—195.
Poussardin, Jacques: *See*—
Logvida, Geza, Poussardin, and Dru. 3,040,889.
Poux, Roland J., to Talon, Inc. Automatic lock slider for slide fasteners. 3,045,307, 7–24–62, Cl. 24—205.14.
Povec, John. Device for cleaning smoking pipes. 3,026,882, 3–27–62, Cl. 131—244.
Powder, Paul F.: *See*—
Van Alstyne, Martha J., and Powder. 3,027,216.
Powell, Albert E., to Sealectro Corp. Transmission system. 3,016,498, 1–9–62, Cl. 333—30.
Powell, Albert E., to Sealectro Corp. Magnetostrictive system. 3,046,502, 7–24–62, Cl. 333—30.
Powell, Albert L., and A. L. Vodicka, Jr. Cabinet. 3,040,848, 6–26–62, Cl. 189—34.
Powell, Charles W. Lance. 3,037,320, 6–5–62, Cl. 46—1.
Powell, Charles W. Method of making simulated sculpture. 3,054,711, 9–18–62, Cl. 156—61.
Powell, Dan, and W. J. Allsopp, to The Metal Box Co. Ltd. Can body reshaping means. 3,056,447, 10–2–62, Cl. 153—54.
Powell, Dawson. Fire inhibitor and extinguisher. 3,019,843, 2–6–62, Cl. 169—2.
Powell, Edgar R., to General Motors Corp. Apparatus and process for casting pistons. 3,049,768, 8–21–62, Cl. 22—93.
Powell, Edward B. Slug for shotgun. 3,063,376, 11–13–62, Cl. 102—51.
Powell Edward C.: *See*—
Riley, James H., Silver, and Powell. 3,032,056.
Powell, Flavius M.: *See*—
Rent, Edward F., and Powell. 3,015,441.
Rent, Edward F., and Powell. 3,017,092.
Powell, Frederic K.: *See*—
La Pierre, Cramer W., Cochran, Janssen, Powell, and Samsel. 3,067,281.
Powell George A. Automatic ventilator window. 3,034,416, 5–15–62, Cl. 98—88.
Powell, George T., Jr.: *See*—
Domingos, Karl K., Jr., Powell, and Malaspina. 3,015,270.
Powell, George W.: *See*—
Fahrney, Maxwell E., and Powell. 3,048,947.
Powell, George W., and H. F. Bottorf, Jr., to Pangborn Corp. Blasting apparatus. 3,069,811, 12–25–62, Cl. 51—9.
Powell, Gerald: *See*—
Shorkey, Albert F., Powell, and Wilson. 3,028,955.
Powell, Gerald E., to Ricardo & Co., Engineers (1927) Ltd. Liquid-metering device. 3,039,700, 6–19–62, Cl. 239—126.
Powell, Homer E., to Owens-Illinois Glass Co. Analyzing stresses in transparent articles. 3,052,153, 9–4–62, Cl. 88—14.
Powell, Horace C. Carrier for fishing tackle. 3,047,349, 7–31–62, Cl. 312—287.
Powell, James L. Safety closure for containers. 3,017,049, 1–16–62, Cl. 215—14.
Powell, James M.: *See*—
Caminker, Bernard, and Powell. 3,056,639.
Powell, John H.: *See*—
Alexander, Harry, and Powell. 3,034,694.
Powell Keith R., to General Mills, Inc. Classifying apparatus. 3,021,952, 2–20–62, Cl. 209—339.
Powell, Kenneth S., to Bristol Siddeley Engines Ltd. Liquid distribution system. 3,018,093, 1–23–62, Cl. 261—41.
Powell, Lesbern J., and E. T. Morton. One-handed oar for fishermen. 3,039,120, 6–19–62, Cl. 9—24.
Powell, Merrill R.: *See*—
Boyce-Smith, William I., and Powell. 3,051,523.
Powell, Milton E.: *See*—
Osborne, Robert L., and Powell. 3,044,863.
Powell, Ralph R.: *See*—
Donan, John F., Powell, and Christoff. 3,028,085.
Powell, Roger F., E. F. Martin, P. Lurie, R. J. Nichol, and E. M. Brand, to National Chemical Products Ltd. 1,3,5-trialkoxyalkyltrioxanes and process for their production. 3,031,456, 4–24–62, Cl. 260—340.
Powell, Roger F., E. F. Martin, J. Lurie, R. J. Nichol, and E. M. Brand, to National Chemical Products Ltd. Promoting-froth flotation. 3,034,648, 5–15–62, Cl. 209—166.
Powell, Russell A., to Koppers Co., Inc. Combined gas cleaner and cooler. 3,041,059, 6–26–62, Cl. 266—31.
Powell, Russell A., to Koppers Co., Inc. Method of replacing blast furnace bells and hoppers. 3,056,518, 10–2–62, Cl. 214—152.
Powell Steel Lath Corp.: *See*—
Gibson, Oliver E. 3,066,772.
Powell, Thomas R. Combined water and cap pistol. 3,042,262, 7–3–62, Cl. 222—79.
Powell, Truman W. Carton for receiving and carrying beverage cans and the like. 3,038,600, 6–12–62, Cl. 206—65.
Powell, Vernon R. Tube gripping mechanism. 3,033,583, 5–8–62, Cl. 279—4.
Powell, Vernon R. Apparatus for measuring wall thickness of tubular members. 3,046,664, 7–31–62, Cl. 33—147.
Powell, William A., and G. H. Preece. Cable guide pulleys. 3,059,906, 10–23–62, Cl. 254—190.
Powell, William J.: *See*—
Bonham, Carl P., Cope, and Powell. 3,067,867.
Powell, William W., Jr. Method for the regeneration of waste solutions of sulfuric acid. 3,018,166, 1–23–62, Cl. 23—126.
Powelson, Roger V. N., to Sun Oil Co. Process and apparatus for the continuous reaction of gaseous reactants. 3,049,-527, 8–14–62, Cl. 260—93.7.
Power, Basil D., and A. A. Runki, to Edwards High Vacuum Ltd. Rotary vacuum pumps. 3,057,546, 10–9–62, Cl. 230—207.
Power Brake Equipment Co.: *See*—
Williams, Norman C. 3,018,136.
Williams, Norman C. 3,031,050.
Williams, Norman C. 3,039,193.
Power, David R., and J. W. Beatty, to United States of America, Air Force. Reconnaissance system. 3,028,449, 4–3–62, Cl. 178—6.6.
Power Engineering Co.: *See*—
Barss, Howard W., Jr. 3,058,552.
Power Jacks Ltd.: *See*—
Tridgell Cyril W. 3,064,581.
Power, James R., to Bell Telephone Laboratories, Inc. Multifrequency signaling receiver. 3,057,964, 10–9–62, Cl. 179—84.
Power Jets (Research and Development) Ltd.: *See*—
Davidson, Ivor M. 3,018,983.
Davidson, Ivor M. 3,056,566.
Davidson, Ivor M. 3,062,483.
Davidson, Ivor M. 3,066,894.
Deacon, William, Golesworthy, Hartley, and Martin. 3,020,718.
Ebdon, Eric. 3,070,334.
Howell, Alun E., and Islip. 3,027,138.
Shaw, Ronald A. 3,022,026.
Stephenson, Norman. 3,015,880.
Stratford, Brian S. 3,054,255.
Stratford, Brian S. 3,066,483.
Vickery, John P. 3,055,577.
Power, Wilson H., to Monsanto Chemical Co. Process of decreasing the salt content of an acidic silica hydro-organosol. 3,051,657, 8–28–62, Cl. 252—306.

Power, Wilson H., to Monsanto Chemical Co. Process of decreasing the salt content of an acidic silica hydro-organosal. 3,051,658, 8–28–62, Cl. 252—306.
Powers, Alex. Apparatus for eliminating ceramic cores. 3,044,087, 7–17–62, Cl. 15—3.
Powers, Bertha B. : *See*—
Cardwell, Mintaetta W., and Powers. 3,017,640.
Powers Chemco, Inc. : *See*—
Anander, Andrew K. 3,041,931.
Anander, Andrew K. 3,063,337.
Anander, Andrew K. 3,068,749.
Schutt, Norman C., Flynn, and Bjelland. 3,068,748.
Powers, Frank M. Golf club carrier. 3,058,504, 10–16–62, Cl. 150—1.5.
Powers, Howard A., to Universal Controls, Inc. Hopper for use in fare collection apparatus. 3,024,970, 3–13–62, Cl. 232—44.
Powers, Irving, to Bemis Bros. Bag Co. Packaging method. 3,022,613, 2–27–62, Cl. 53—28.
Powers, John R. : *See*—
Githens, Richard E., Jr., and Powers. 3,031,770.
Powers, Kenneth W. : *See*—
Baldwin, Francis P., Robison, Miller, and Powers. 3,039,906.
Powers, Kenneth W., and S. B. Robison, to Esso Research and Engineering Co. Thioamide cure of halogenated copolymers. 3,035,029, 5–15–62, Cl. 260—79.
Powers, Kerns H., to Radio Corp. of America. Phase shifting circuit. 3,050,700, 8–21–62, Cl. 333—29.
Powers, Kerns H., to Radio Corp. of America. Angular-Velocity modulation transmitter. 3,054,073, 9–11–62, Cl. 332—17.
Powers, Lee H., to J. I. Case Co. Planter adjusting means for regulating the discharge of seed and fertilizer. 3,060,873, 10–30–62, Cl. 111—73.
Powers, Milton A. Filters. 3,018,845, 1–30–62, Cl. 183—7.
Powers, Milton A. Fluid filtering mediums and method of making the same. 3,019,186, 1–30–62, Cl. 210—506.
Powers, Milton A., to Skuttle Mfg. Co. Counterbalanced humidifier. 3,048,163, 8–7–62, Cl. 126—113.
Powers, Richard L., to Powers Wire Products Co., Inc. Tool for applying hog-rings and the like. 3,064,263, 11–20–62, Cl. 1—187.
Powers, Richard E., and C. W. Weis, to Powers Wire Products Co., Inc. Fluid operated valve for release of fluid under pressure. 3,026,849, 3–27–62, Cl. 121—13.
Powers, Richard M., to United States of America, Atomic Energy Commission. Production of uranium monocarbide. 3,046,090, 7–24–62, Cl. 23—14.5.
Powers, Richard W., Jr., to I. L. Fife. System for centering a moving web. 3,024,955, 3–13–62, Cl. 226—22.
Powers, Robert A. : *See*—
Evans, George E., Powers, Estes, and Snavely. 3,054,030.
Powers, Robert F. : *See*—
Arthur, James R., and Powers. 3,054,259.
Powers, Walter H., to Walker Mfg. Co. Muffler construction. 3,036,654 5–29–62, Cl. 181—54.
Powers, Walter H., to Walker Mfg. Co. Muffler. 3,036,655, 5–29–62, Cl. 181—54.
Powers, Walter H., and B. D. Jacokes, to Walker Mfg. Co. of Wisconsin. Method of making mufflers. 3,064,336, 11–20–62. Cl. 29—157.
Powers, William R., to Scott Paper Co. Celliform structure and method of making same. 3,025,200, 3–13–62, Cl. 154—54.
Powers Wire Products Co., Inc. : *See*—
Michel, Charles. 3,023,417.
Michel, Charles. 3,040,327.
Powers, Richard E. 3,064,263.
Powers, Richard E., and Weis. 3,026,849.
Powertronix, Inc. : *See*—
Ofner, Frank R. 3,057,076.
Powis, Philip L. : *See*—
Moeller, Heinrich W. R., and Powis. 3,027,559.
Powlas, James J., to The Bendix Corp. Brake. 3,023,852, 3–6–62, Cl. 188—78.
Powley, Mallinson and B. Sykes, to Ferranti, Ltd. Apparatus for displaying to a gunner or pilot in an aircraft an artificial image at infinity of a graticule. 3,018,476, 1–23–62, Cl. 343—7.
Powrie, Noel C. Variable mechanical advantage lever. 3,039,322, 6–19–62, Cl. 74—516.
Poyer, David. Demountable portable stove. 3,032,027, 5–1–62, Cl. 126—9.
Poynter, Cyril E., to Weatherley Oilgear Ltd. High speed surface broaching machine. 3,053,148, 9–11–62, Cl. 90—10.
Poziomek, Edward J. : *See*—
Hackley, Brennie E., Jr., Poziomek, and Steinberg. 3,045,025.
Hackley, Brennie E., Jr., Poziomek, and Steinberg. 3,054,798.
Hackley, Brennie E., Jr., Poziomek, and Steinberg. 3,054,799.
Pozzi, John F. : *See*—
Ash, William J., and Pozzi. 3,033,549.
Prachar, Cyril. Automatic device for the locking and unlocking of a mechanical or hydraulic transmission in motor vehicles. 3,036,677, 5–29–62, Cl. 192—4.
Prachar, Otakar P., to General Motors Corp. Liquid vapor fuel system. 3,052,095, 9–4–62, Cl. 60—39.28.
Practical Mfg. Co. : *See*—
Albertson, Robert V. and V. N. 3,020,918.
Albertson, Victor N. and R. V. 3,016,841.
Practical Tool & Engineering Co., Inc. : *See*—
Johnson, Stanford E., and Bydalek. 3,045,580.
Praeg, Walter S., to National Broach & Machine Co. Gear honing machine. 3,054,225, 9–18–62, Cl. 51—52.
Praeg, Walter S., to National Broach & Machine Co. Method of honing gears. 3,059,385, 10–23–62, Cl. 51—287.
Prager, Irwin A. : *See*—
Brooks, Marvin C., and Prager. 3,028,360.
Prager, Julianne H., and R. M. McCurdy, to Minnesota Mining & Mfg. Co. Omega-cyanothiaalkyl acrylate polymers. 3,031,436, 4–24–62, Cl. 260—79.7.
Praha, Anton. Vehicle comprising a protective device for the occupants. 3,037,809, 6–5–62, Cl. 296—84.
Prameta Prazisionsmetall- und Kunststofferzeugnisse G. Baumann & Co. : *See*—
Grunert, Helmuth. 3,030,959.
Ramien, Wolfgang F. 3,031,713.
Prange, Peter, and H. D. Textor, to Ferdinand Lentjes Kesselschmiede und Maschinenbau. Gas producer. 3,019,095, 1–30–62, Cl. 48—63.
Prange, Charles J. Drag bucket elevating and unloading mechanism. 3,019,921, 2–6–62, Cl. 214—103.
Prapas, Aristotle G. : *See*—
Rudner, Bernard, Bafford, and Prapas. 3,058,982.
Prapas, Aristotle G., to W. R. Grace & Co. Process for polymerizing unsaturated esters. 3,069,403, 12–18–62, Cl. 260—89.1.
Praria, Guy B., to Columbia Broadcasting Systems, Inc. Transconductance measurement. 3,064,187, 11–13–62, Cl. 324—57.
Prasse, Herbert F. : *See*—
Thrap, John E., and Prasse. 3,050,010.
Thrap, John E., and Prasse. 3,068,804.
Prasse, Herbert F., to Thompson Ramo Wooldridge Inc. Leaf spring seal for pumps. 3,019,737, 2–6–62, Cl. 103—126.
Prasse, Herbert F., and H. L. Steele, to Thompson Ramo Wooldridge Inc. Pump. 3,039,397, 6–19–62, Cl. 103—83.
Prat, Andre L. F., ⅓ to Eric Benedic. Apparatus for the automatic projection of selected sound films. 3,045,537, 7–24–62, Cl. 88—16.2.
Prater, Harlan, Jr., to American Cyanamid Co. Hypodermic syringe. 3,026,872, 3–27–62, Cl. 128—218.
Prater, Harlan, Jr., to American Cyanamid Co. Hypodermic syringe. 3,028,862, 4–10–62, Cl. 128—218.
Prater, Merle P. : *See*—
Forsyth, Bruce E., and Prater. 3,055,681.
Palmer, Harry R., and Prater. 3,020,836.
Prater, Merle P., to International Business Machines Corp. Photosensitive record. 3,037,863, 6–5–62, Cl. 96—79.
Prather, Edwin E., to The Bendix Corp. Automatic brake holding system. 3,021,821, 2–20–62, Cl. 121—41.
Prather, Edwin E., to The Bendix Corp. Power assisted actuator. 3,031,850, 5–1–62, Cl. 60—54.6.
Prather, Marvin E., to General Electric Co. Electric range with spill-proof cooking surface. 3,051,818, 8–28–62, Cl. 219—37.
Prather, Roland W. Hand operated pike. 3,050,095, 8–21–62, Cl. 144—193.
Prato, John, Jr. Grip pattern bowling ball. 3,065,548, 11–27–62, Cl. 33—174.
Pratsch, Rudolf : *See*—
Eiusele, Arnold, Pratsch, and Slamecka. 3,038,116.
Pratt, Addison H., Jr., and R. E. Libby. Ornamental artificial product. 3,039,148, 6–19–62, Cl. 18—59.
Pratt, Baruch : *See*—
Ben-Sira, Moshe Y., and Pratt. 3,053,926.
Pratt, Francis L. : *See*—
Cunningham, James M., and Pratt. 3,062,535.
Cunningham, James M., Pratt, and Watkins. 3,052,408.
Pratt, Henry, Co. : *See*—
Fawkes, Donald G. 3,020,019.
Killian, Henry R. 3,043,160.
Killian, Henry R. 3,050,781.
Saar, Robert P., and Bicicchi. 3,032,835.
Pratt, Henry R. C., to The United Kingdom Atomic Energy Authority, Patents Branch. Gas humidification and dehumidification processes. 3,019,610, 2–6–62, Cl. 62—11.
Pratt, Henry R. C., to The United Kingdom Atomic Energy Authority of Patents Branch. Nuclear reactors. 3,058,898, 10–16–62, Cl. 204—154.2.
Pratt, John J., Jr. : *See*—
Bornstein, Joseph, Blum, and Pratt. 3,021,358.
Pratt, Lemuel A., to Pacific Semiconductors, Inc. Circular die sets. 3,047,044, 7–31–62, Cl. 153—9.
Pratt Mfg. Corp. : *See*—
Harrison, Thomas L., and Pratt. 3,054,242.
Miller, John S., Jr. 3,044,600.
Nicol, Herbert E. 3,054,517.
Pratt, Norman F., to Ford Motor Co. Magnetostrictive torque meter. 3,046,781 7–31–62. Cl. 73—136.
Pratt, Read, & Co., Inc. : *See*—
Good, Donald K. 3,060,074.
Pratt, Robert H. : *See*—
Harrison, Thomas L., and Pratt. 3,054,242.
Pratt, Robert H., and A. J. Backus, to Laukhuff-Pratt Mfg. Corp. Cotton ball machine. 3,065,505, 11–27–62, Cl. 19—144.5.
Pratt, Samuel O., to Lyon & Healy, Inc. Body shell and sounding box structure for harps. 3,051,033, 8–28–62, Cl. 84—265.

Pratt, Verneur E. Flushing apparatus. 3,041,629, 7–3–62, Cl. 4—28.
Pratt & Whitney Co., Inc.: *See*—
Hollister, Allen R. 3,021,705.
Jaeger, Jacob J., Kirkham, and Nowak. 3,068,386.
Pratt, Willard R. to Vanguard Abrasive Corp. Abrasive cut-off disk. 3,028,710, 4–10–62, Cl. 51—206.
Pratt, Willard R., and D. H. Benson, to Vanguard Abrasive Corp. Abrasive cut-off disks. 3,069,816, 12–25–62, Cl. 51—206.
Pratzki, John P.: *See*—
Compton, Donald R., and Pratzki. 3,045,896.
Pravel, Herman E Bi-directionally mechanically moved shaft. 3,046,800. 7–31–62. Cl. 74—25.
Pravel, Herman E. Rotary to lineal motion converter. 3,046,-801, 7–31–62. Cl. 74—25.
Pray, Blaine O.: *See*—
Hardines, Donald E., and Pray. 3,070,634.
Pray, Blaine O., to Pittsburgh Plate Glass Co. N-alkenyl-N-phenyl carbamates. 3,048.619, 8–7–62, Cl. 260—471.
Pray, Blaine O., and D. E. Hardies, to Pittsburgh Plate Glass Co. Stabilization. 3,043,888, 7–10–62, Cl. 260—652.5.
Pray, Lester W.: *See*—
Anderson, Gordon C., and Pray. 3,060,673.
Pray, Winston C., to Flexible Steel Lacing Co. Belt fastener. 3,067,474, 12–11–62, Cl. 24—3.
Preau, Nicole M.: *See*—
Jacob, Robert M., and Preau. 3,058,985.
Precht, Walter, R. J. Geckle, and L. Frank, to Martin-Marietta Corp. Method of making tubular nuclear fuel elements. 3,015,615, 1–2–62, Cl. 204—154.2.
Precht, Walter, and H. N. Barr, to United States of America, Atomic Energy Commission. Stabilized europium dioxide for a control rod. 3,031,395. 4–24–62, Cl. 204—193.2.
Precise Engineering Co., The: *See*—
Sell, Frank A., Jr. 3,016,668.
Precise Products Corp.: *See*—
Szafran, Dmytro. 3,035,376.
Precision Associates, Inc.: *See*—
Horvereid, Wells J. 3,052,478.
Precision Auto-Control Electronics Laboratories Inc.: *See*—
Stites, Bernard T. 3,063,153.
Precision Cine Equipment Corp.: *See*—
Sheldon, Irwin R. 3,053,426.
Precision Coin Devices, Inc.: *See*—
Palladino, Frank. 3,042,762.
Precision Connectors, Inc.: *See*—
Lalonde, Guy J. 3,016,508.
Precision Controls Corp.: *See*—
Barnett, John S. 3,049,588.
Precision Dynamics Corp.: *See*—
Goldammer, Arthur R., Long, and Mosher. 3,059,359.
Precision Equipment Co., Inc.: *See*—
Miller, Le Roy. 3,051.196.
Precision Industrielle, La: *See*—
Gamet, Louis J.-M. 3,020,057.
Precision Mecanique, La: *See*—
Raibaud, Jean P. 3,027,843.
Precision Mecanique Labinal: *See*—
Bodez, Pierre M. J. 3,041,538.
Precision Medical Instrument, Inc.: *See*—
Blackman, Seymour N., and Ferenc. 3,059,639.
Precision Metalsmiths, Inc.: *See*—
Horton, Robert A. 3,018,528.
Watts, Claude H. 3,015,138.
Precision Metal Workers: *See*—
Horton, Richard E. 3,023,873.
Precision Paper Tube Co.: *See*—
Folta, Andrew. 3,040,385.
Precision Parts Corp.: *See*—
Harmon, Paul V., and Carpenter. 3,031,559.
Precision Products & Controls, Inc.: *See*—
Dunn, Michael J. 3,022,943.
Precision Recapping Equipment Co.: *See*—
Dennis, Clement O., and Shaver. 3,067,457.
Precision Scientific Co.: *See*—
Wessling, Kenneth F. 3,040,973.
Precision Valve Corp.: *See*—
Beemer, Paul K., and Morris. 3,015,217.
Focht, John R., and Pizzurro. 3,028,629.
Preckel, Ralph F., to Hercules Powder Co. Propellants. 3,032,972. 5–8–62, Cl. 60—35.4.
Preckel, Ralph F., to Hercules Powder Co. Gas producing charge. 3,033,715, 5–8–62, Cl. 149—96.
Preckel, Ralph F., to Hercules Powder Co. Gas producing charge. 3,033,716, 5–8–62, Cl. 149—96.
Preckel, Ralph F., to Hercules Powder Co. Gas-producing charge. 3,033.717, 5–8–62, Cl. 149—100.
Preckel, Ralph F., to Hercules Powder Co. Gas-producing charge. 3,033,718, 5–8–62, Cl. 149—100.
Preckel, Ralph F., to Hercules Powder Co. Process for colloiding nitrocellulose. 3,037,247. 6–5–62, Cl. 18—55.
Preckel Ralph F., to Hercules Powder Co. Method for densifying nitrocellulose. 3,037,890, 6–5–62, Cl. 149—96.
Preco Inc.: *See*—
Bowen, John T. 3 029,715.
Magarian, Gerald M. and Beemer. 3,063,388.
Shea, Reeford P. 3,029,716.
Precon Process and Equipment Corp.: *See*—
Corrigan Robert E., and Becker. 3,060,795.
Pre-Controls, Inc.: *See*—
Morse, William L. 3 050.904.
Morse, William L. 3,066,441.
Precoul, Michel, to Societe Technique de Recherches Industrielles et Mecaniques S.T.R.I.M. Powder propulsive for rockets or otner self-propelled projectiles. 3,044,255, 7–17–62, Cl. 60—35.6.
Preece, George E.: *See*—
Bell, Francis R., and Preece. 3,035,878.
Preece, Gordon H.: *See*—
Powell, William A., and Preece. 3,059,906.
Preeman, Marvin B., to Standard Steel Corp. Drier with straight and sawtooth lifters. 3,025,611, 3–20–62, Cl. 34—137.
Preeman, Marvin B., to Standard Steel Corp. Mixer tip with shank shroud. 3,039,747, 6–19–62, Cl. 259—136.
Preen, Robert E., to West Virginia Pulp and Paper Co. Cartons for containing liquids or finely-divided materials. 3,057,531, 10–9–62, Cl. 229—7.
Prefina G.m.b.H.: *See*—
Wenger, Otto. 3,060,624.
Prefontaine, Maurice. Combination sine bar and indexing rotary table. 3,063,155. 11–13–62, Cl. 33—174.
Preformed Line Products Co.: *See*—
Bonds, Albert. 3,049.858.
Peterson, Thomas F. 3,026.077.
Peterson, Thomas F. 3,032 964.
Williams, Harrison L. 3,042,745.
Pregl, Hans: *See*—
Biedermann, Friedrich, and Pregl. 3,048,081.
Preis, Georg, Reaming tool for cylindrical bores. 3,045,514, 7–24–62, Cl. 77—75.
Preiser, Herman S. Insoluble trailing anode for cathodic protection of ships. 3,038,849, 6–12–62, Cl. 204—196.
Preiser, Herman S., and F. E. Cook, to Chemionics Engineering Laboratories, Inc. Corrosion-erosion-cavitation protection for marine propellers. 3,049,479, 8–14–62, Cl. 204—147.
Preiser, Ralph H., J. J. McNally, and J. D. Kotowski, to Electrical Utilities Co. Dual terminal insulator. 3,023,-268, 2–27–62, Cl. 174—153.
Preisig, Joseph O.: *See*—
Freedman, Larry A., and Preisig. 3,059.056.
Freedman, Larry A., and Preisig. 3,061,683.
Preisig, Joseph O., to Radio Corp. of America. Transistor television receivers. 3,030,444, 4–17–62, Cl. 178—7.3.
Preisig, Joseph O., to Radio Corp. of America. Stereophonic detecting and matrixing circuit. 3,059,189, 10–16–62, Cl. 329—135.
Preiss, Lester L.: *See*—
Hutchinson, John W., Fenn, and Preiss. 3,042,449.
Preissler, Karl, to H. L. Naimer. Apparatus for making cams of thermoplastic material. 3,055,047, 9–25–62, Cl. 18—1.
Preissler, Karl, and G. Aisch, to H. L. Naimer. Compound electrical switch. 3,044,806. 7–17–62, Cl. 287—20.
Prell, Edward G., Jr., to Union Carbide Corp. Method of making a battery. 3.057.949. 10–9–62, Cl. 136—175.
Prell, George A., to GPE Controls, Inc. Weft thread alignment control system. 3,041,703, 7–3–62, Cl. 26—51.5.
Prellwitz, Samuel B., to United States Steel Corp. Method and apparatus for tightening coils of elongated material. 3.044.729. 7–17–62. Cl. 242—78.1.
Prelog, Vladimir: *See*—
Gaeumann, Ernst, Prelog, and Wettstein. 3,039,924.
Prelog, Vladimir, E. Gaeumann, and A. Wettstein, to Ciba Corp. Process for producing antibiotic. 3,055,807, 9–25–62, Cl. 195—80.
Premere Mfg. Corp.: *See*—
McKean, James D. 3,048,147.
Premier Co.: *See*—
Bowman, Gordon L. 3,045,412.
Pre-Mix Corp.: *See*—
Horvitz, Howard J. 3.021,613.
Premo Pharmaceutical Laboratories, Inc.: *See*—
Goldman, Robert. 3,039,933.
Prendergast, Charles S., to Brakeshoe International, S.A. Rotary pumps and motors. 3,016,017, 1–9–62, Cl. 103—4.
Prentice, E. V., Co.: *See*—
Prentice Thomas H. 3,063,479.
Prentice, John McG.: *See*—
McKee, George R., and Prentice. 3,043,237.
Prentice Machine Works, Inc.: *See*—
Mahony, Stephen M., and Prentice. 3,063,480.
Prentice, Robert T.: *See*—
Mahony, Stephen M., and Prentice. 3,063,480.
Prentice, Thomas H., to E. V. Prentice Co. Chop saw apparatus for cutting series feed pieces. 3,063,479, 11–13–62, Cl. 143—46.
Prentice, William H., and V. V. Link, to Owens-Corning Fiberglas Corp. Method and apparatus for reconstituting fibrous material. 3,056.172, 10–2–62, Cl. 19—96.
Prentiss, Augustin M., to Chandler-Evans Corp. Jet engine automatic thrust control. 3,022,628, 2–27–62, Cl. 60—35 6.
Prentiss, Spencer S., to Phillips Petroleum Co. Prevention of water and gas coning. 3,018,828, 1–30–62, Cl. 166—53.
Prentky, Peter I., to International Business Machines Corp. Pulse synchronizer. 3,041,546, 6–26–62, Cl. 331—12.
Preotle, John J.: *See*—
Hastings, Franklin G., Mueller, and Preotle. 3,048,902.
Preotle, John J., and C. E. Rembold, to General Motors Corp. Refrigerating apparatus. 3,027,735, 4–3–62, Cl. 62—407.

Preparation Industrielle des Combustibles: *See*—
Dardy, Raymond. 3,052,320.
Pourey, Jacques C. 3,036,245.
Lagrost, Lucien. 3,019,900.
Preparation Industrielle des Combustibles, Ste.: *See*—
Logojda, Geza, Poussardin, and Dru. 3,040,889.
Prepo Corp.: *See*—
Falligant, Louis A., and Kufrin. 3,066,516.
Prerovske strojirny: *See*—
Zacpal, Zdenek. 3,067,990.
Prescon Corp. The: *See*—
Fields, James R., and Young. 3,060,639.
Middendorf, Karl H. 3,029,490.
Prescott, Francis J.: *See*—
Hessel, Frederick A., and Prescott. 3,016,351.
Prescott, Richard H.: *See*—
Herrick, George H., Prescott, and Guido. 3,022,739.
Prescott, Rochelle ⅓ to W. G. Finch. Optical grating. 3,045,531, 7–24–62, Cl. 88—14.
Prescott, Russell M.: *See*—
Hardcastle, Philip P., and Prescott. 3,024,012.
Prescott, Wilmar L. Steerable hand cart. 3,066,945, 12–4–62, Cl. 280—47.11.
Prescription Drug Co., Inc.: *See*—
McGee, Andrew J. 3,057,347.
Presley, Wayne E.: *See*—
Bressler, Wilbur L., and Presley. 3,029,286.
Bressler, Wilbur L., and Presley. 3,043,788.
Pressell, Frank G. Predetermined depth-maintaining, self-propelled model submarine. 3,036,403, 5–29–62, Cl. 46—94.
Presnick, Michael C. Box. 3,035,735, 5–22–62, Cl. 220—62.
Press, Frank: *See*—
Walker, Hugh O., Jr., Press, and Lee. 3,047,965.
Press, John E., and A. Safianoff, to Fedco Corp. Plastic dispenser and method of making it. 3,069,105, 12–18–62, Cl. 242—55.2.
Press, Martin: *See*—
Alexander, Ben, Press, and Murgio. 3,025,514.
Press, Martin, and R. C. Davis, to International Telephone and Telegraph Corp. Radar tracking system. 3,054,102, 9–11–62, Cl. 343—7.3.
Press Seal Gasket Corp.: *See*—
Shook, Adam M. 3,048,415.
Press- & Stanzwerk A.G.: *See*—
Schlatter, Walter. 3,048,105.
Pressed Steel Co Ltd.: *See*—
Simmie, Walter S. 3,053,973.
Simmie, Walter S., Bywater, and Robinson. 3,053,972.
Simmie, Walter S., Bywater, and Robinson. 3,053,974.
Pressess, Goldie. Disposable bed pan. 3,061,840, 11–6–62, Cl. 4—113.
Pressel, Earl L., and S. Vernet, to Antioch College. Thermostatic element. 3,035,444, 5–22–62, Cl. 73—368.3.
Presser, Leiser. Window cleaning device. 3,032,797, 5–8–62, Cl. 15—250.04.
Presser, Leiser. Window cleaning apparatus. 3,048,871, 8–14–62, Cl. 15—250.19.
Pressley, William J.: *See*—
Starnes, Charles O., Ferguson, and Pressley. 3,061,890.
Pressman, Abraham: *See*—
Peperissa, Thomas C., and Pressman. 3,025,410.
Pressure Products Industries, Inc.: *See*—
Wolf, Robert C., and Bowen. 3,052,188.
Presswood, John K.: *See*—
Pearson, Tillmon H., and Presswood. 3,028,404.
Presswood, Kenneth: *See*—
Pearson, Tillmon H., and Presswood. 3,061,626.
Prestige Furniture Corp.: *See*—
Baermann, Walter P. 3,055,708.
Prestigiacomo, Anthony J., to Bell Telephone Laboratories, Inc. Apparatus for deriving pitch information from a speech wave. 3,020,344, 2–6–62, Cl. 179—1.
Presto Lock Co.: *See*—
Gehrie, Charles S. 3,020,742.
Gehrie, Charles S. 3,020,743.
Gehrie, Charles S. 3,034,817.
Gehrie, Charles S. 3,049,748.
Levine, Abraham. 3,031,874.
Prestole Corp.: *See*—
Bradner, Ernest G. 3,035,860.
Collins, Coy W. 3,036,997.
Jaworski, Leonard S. 3,035,624.
Munse, Robert A. 3,044,165.
Weinstein, Donald A. 3,020,630.
Preston, Dale R. Flying machine. 3,064,925, 11–20–62, Cl. 244—17.23.
Preston, David S., to The American Mono Rail Co. Lap carrier. 3,040,916, 6–26–62, Cl. 214—61.
Preston, Don F.: *See*—
Huthsing, Charles K., Sr., and Preston. 3,048,194.
Preston, Don F., to General Fire Extinguisher Corp. Pulley assembly. 3,042,378, 7–3–62, Cl. 254—190.
Preston, Everett S., to Photoronix, Inc. Apparatus for measuring and recording terrain data. 3,026,766, 3–27–62, Cl. 88—24.
Preston, Everett S., to Photronix, Inc. Horizontal measuring and indicating mechanism for photogrammetry instrument. 3,031,761, 5–1–62, Cl. 33—1.
Preston, Frank S.: *See*—
Ziserman, Martin, and Preston. 3,066,865.
Preston, Glenn W., to General Atronics Corp. Beam modulating devices and method. 3,023,342, 2–27–62, Cl. 315—12.
Preston, Howard G.: *See*—
Fletcher, Taylor C., Brown, and Chapin. 3,068,450.
Preston, Howard G., to Beckman Instruments, Inc. Method of and apparatus for taking roots. 3,067,940, 12–11–62, Cl. 235—193.
Preston, Iris W., and J. Payne, to Monsanto Chemicals Ltd. Treatment of textiles. 3,016,304, 1–9–62, Cl. 106—36.
Preston, James N. Torque and propulsion reaction engine. 3,025,671, 3–20–62. Cl. 60—39.35.
Preston, James N. Fire jet torque and propulsion reaction engine. 3,053,048, 9–11–62, Cl. 60—39.35.
Preston, James N. Jet torque and propulsion reaction engine. 3,065,600, 11–27–62, Cl. 60—39.35.
Preston, Jerome A., to The Ranson & Randolph Co. Hardenable polysiloxane compositions and curing catalysts therefor. 3,019,204, 1–30–62. Cl. 260—18.
Preston, Jerome A., to The Ransom & Randolph Co. Controlling the rate at which materials are cured by metallo organic activators. 3,060,150, 10–23–62, Cl. 260—46.5.
Preston, Kendall, Jr., to Bell Telephone Laboratories, Inc. Transistor-core pulse generator. 3,048,709, 8–7–62, Cl. 307—88.5.
Preston, Neil D., to General Railway Signal Co. Indicator control system for a train describer. 3,056,126, 9–25–62, Cl. 340—316.
Preston, Robert E., and E. J. Kimm, to United Aircraft Products, Inc. Heat transfer apparatus. 3,037,747, 6–5–62, Cl. 257—313.
Pretema A.G.: *See*—
Rohner, Ernst. 3,042,476.
Pretini, Gisberto, ½ to Compagnia Italiana Westinghouse Freni E. Segnali. Protection system for vehicles carrying valuables. 3,045,775, 7–24–62, Cl. 180—82.
Pretini, Gisberto, ½ to Compagnia Italiana Westinghouse Freni & Segnali. Improved pneumatic alarm and protection apparatus for safes and the like. 3,057,321, 10–9–62, Cl. 116—63.
Pretini, Gisberto, ½ to Compagnia Italiana Westinghouse Freni e Segnali. Thrust-actuated pneumatic alarm system. 3,059,596, 10–23–62, Cl. 109—38.
Pretka, John E., to E. I. du Pont de Nemours and Co. Process for rendering synthetic hydrophobic material antistatic and the product obtained therefrom. 3,021,232, 2–13–62, Cl. 117—138.8.
Pretorius, Yarl. Bait for fishing. 3,047,975, 8–7–62, Cl. 43—42.06.
Prettre, Marcel: *See*—
Eyraud, Charles, Prettre, Trambouze, Lenoir, Thomas, and Plurien. 3,022,187.
Preuss, Friedrich: *See*—
Koch, Werner, and Preuss. 3,054,346.
Previc, Edward P.: *See*—
Hotelling, Eric B., Neuworth, and Previc. 3,027,412.
Neuworth, Martin B., Laufer, and Previc. 3,032,595.
Previte, Richard A.: *See*—
Abbott, Henry H., Martin, Olsen, Previte, and Walsh, H. J. and J.G. 3,037,087.
Prevost, Bruno E., and P. N. St. Onge, to John W. Bolton & Sons. Knife changing board. 3,017,177, 1–16–62, Cl. 269—205.
Prevost, Christie C. Check receipting and depository apparatus. 3,065,467. 11–20–62, Cl. 346—22.
Preway, Inc.: *See*—
Jenson, Kenneth S. 3,017,924.
Jenson, Kenneth S., and Suhr. 3,017,923.
Nelson, Willis N., and Oberbeck. 3,057,343.
Prewitt Aircraft Co.: *See*—
Prewitt, Richard H. 3,018,832.
Prewitt, Richard H., to Prewitt Aircraft Co. Aircraft structure. 3,018,832, 1–30–62, Cl. 170—159.
Priaroggia, Paolo G., to Pirelli Societa per Azioni. Construction of the insulation in joints for high tension electric cables. 3,017,306, 1–16–62, Cl. 156—48.
Priaroggia, Paolo G., and W. Siegfried, to Pirelli Societa per Azioni. Valve for liquid metal. 3,052,253, 9–4–62, Cl. 137—74.
Pribonic, John F.: *See*—
Jackson, George W., and Pribonic. 3,060,963.
Pribonic, John F., to General Motors Corp. Height control valve. 3,054,425, 9–18–62, Cl. 137—627.5.
Pribonic, John F., to General Motors Corp. Multiple position air suspension control system. 3,059,918, 10–23–62, Cl. 267—65.
Pribonic, John F., and N. G. Fouts, to General Motors Corp. Shock absorber with rebound cutoff. 3,057,441, 10–9–62, Cl. 188—88.
Price, Albert E., to General American Transportation Corp. Railway cars for transporting road semi-trailers. 3,063,-386, 11–13–62, Cl. 105—368.
Price, Alfred V., to The Pulsometer Engineering Co. Ltd. Apparatus for handling liquids containing solid matter. 3,057,478, 10–9–62. Cl. 210—108.
Price, Berry G., and E. A. Placke, Tuboscope Co. Mounting equipment for scanning tubular goods. 3,066,254, 11–27–62, Cl. 324—37.
Price, Bill R.: *See*—
Kay, James A., and Price. 3,034,278.

Price, Charles C. : *See*—
Jones, Ralph, Jr., Price, and Sen. 3,066,141.
Price, Charles D., to The Mosler Safe Co. Blast closure. 3,015,342, 1–2–62, Cl. 137—512.1.
Price, Clifford L., to General Motors Corp. Air cleaner. 3,031,026, 4–24–62 Cl. 181—54.
Price, Dan M. Strapless sandal. 3,059,350, 10–23–62, Cl. 36—11.5.
Price, Duane W. Amusement rides. 3,019,740, 2–6–62, Cl. 104—61.
Price, Duane W. Safety devices. 3,062,541, 11–6–62, Cl. 272—53.1.
Price, Duane W., and D. Z. Chapman, to Aerpat A.G. Ball detent fastener with ball and socket plunger assembly. 3,052,148, 9–4–62, Cl. 85—5.
Price, Earl R., to The Bendix Corp. Variable ratio force transmitting mechanism. 3,027,879, 4–3–62, Cl. 121—46.5.
Price, Earl R., to The Bendix Corp. Pressure motor construction. 3,044,449, 7–17–62, Cl. 121—38.
Price, Earl R., to The Bendix Corp. Reaction producing structure. 3,049,099, 8–14–62, Cl. 121—41.
Price, Earl R., to The Bendix Corp. Piston seal construction. 3,055,720, 9–25–62, Cl. 309—51.
Price, Earl R., and E. E. Hupp, to The Bendix Corp. Low input braking system. 3,031,849, 5–1–62, Cl. 60—54.5.
Price, Earl R., J. W. Blair, and M. L. Davis, to The Bendix Corp. Poppet valve construction. 3,032,064, 5–1–62, Cl. 137—620.
Price, Edison. Lighting louvers. 3,016,997, 1–16–62, Cl. 189—82.
Price, Edward M., to Tung-Sol Electric Inc. Shipping and display carton. 3,017,018, 1–16–62, Cl. 206—45.31.
Price, Frank C. : *See*—
Reeg, Cloyd P., and Price. 3,027,317.
Price, Frank E. Framing and trim arrangement for wall openings. 3,042,160, 7–3–62, Cl. 189—75.
Price, Fraser P., to General Electric Co. Honeycomb structures. 3,033,734, 5–8–62, Cl. 156—305.
Price, Frederick C., to Imperial Chemical Industries Ltd. Process and apparatus for removing protruding fibers from spun thermoplastic linear polymer yarns. 3,022,564, 2–27–62, Cl. 28—63.
Price, Frederick J., Jr. : *See*—
Rodth, Joseph J., Price, and Dexter. 3,045,869.
Price, Frederick J., Jr., to S. Dane. Refrigerated beverage dispenser. 3,060,702, 10–30–62, Cl. 62—392.
Price, G. C., Co. : *See*—
Elliott, Bernard V. 3,045,338.
Price, Glen E. : *See*—
Sanford, Richard A., and Price. 3,035,383.
Vesper, Daniel M., and Price. 3,039,309.
Price, Glenn R., E. N. Walsh, and J. T. Hallett, to Stauffer Chemical Co. Phosphoro carbimidates. 3,070,493, 12–25–62, Cl. 167—30.
Price, Harold A., to Permanent Filter Corp. Hydrocarbon filtration. 3,016,345, 1–9–62, Cl. 208—187.
Price, Harold A., to Permanent Filter Corp. Filtration equipment. 3,027,009, 3–27–62, Cl. 210—236.
Price, Harold A., to Permanent Filter Corp. Cell for testing hydrocarbon fuel. 3,049,911, 8–21–62, Cl. 73—61.
Price, Harry H. : *See*—
Chisholm, Douglas S., Freeman, Holzinger, and Price. 3,065,190.
Price, Herbert P., and W. J. Belanger, to Devoe & Raynolds Co., Inc. Production of glycidyl ethers. 3,033,803, 5–8–62, Cl. 260—2.
Price, Herbert P., and W. J. Belanger. Production of glycidyl ether compositons. 3,033,816, 5–8–62, Cl. 260—47.
Price, Herbert P., and W. J. Belanger, to Devoe & Raynolds Co., Inc. Production of aliphatic modified epoxide resins. 3,033,817, 5–8–62, Cl. 260—47.
Price, Herbert P., and W. J. Belanger, to Devoe & Raynolds Co., Inc. Production of mixed diglycidyi ether compositions. 3,033 818, 5–8–62, Cl. 260—47.
Price, Herbert P., and W. J. Belanger, to Devoe & Raynolds Co., Inc. Production of dihydric phenols and epoxide resins. 3,033,819, 5–8–62, Cl. 260—47.
Price, Herbert P., and W. J. Belanger, to Devoe & Raynolds Co., Inc. High molecular weight resins. 3,033,820, 5–8–62, Cl. 260—47.
Price, Herbert P., and W. J. Belanger, to Devoe & Raynolds Co., Inc. Production of diglycidyl ethers. 3,033,821, 5–8–62, Cl. 260—47.
Price, Herbert P., and W. J. Belanger, to Devoe & Raynolds Co., Inc. Production of high molecular weight dihydric phenols and resins. 3,035,018, 5–15–62, Cl. 260—47.
Price, Hollas K. Power steering mechanism with ignition safety device. 3,029,891, 4–17–62, Cl. 180—82.
Price, Hollas K. Safety swimming pool. 3,045,253, 7–24–62, Cl. 4—172.
Price, James E., to North American Aviation, Inc. Conductive coating. 3,030,237, 4–17–62, Cl. 117—227.
Price, John A. : *See*—
Schuller, Walter H., and Price. 3,032,539.
Price, John A., to American Viscose Corp. Alkenyl aryl mononers, polymers thereof and polymerization processes. 3,042,664, 7–3–62, Cl. 260—91.5.
Price, Joseph C. Scouring device. 3,026,552, 3–27–62, Cl. 15—97.
Price, Joseph L. Trocar and method of treating bloat. 3,039,468, 6–19–62, Cl. 128—347.
Price, Leo, to Winslow Mfg. Co. Gauge mounting. Re. 25,240, 9–11–62, Cl. 33—174.
Price, Leo, to Winslow Mfg. Co. Moment determining device. 3,064,469, 11–20–62, Cl. 73—65.
Price, Nathan C., to Lockheed Aircraft Corp. Subsonic, supersonic propulsive nozzle. 3,038,305, 6–12–62, Cl. 60—35.55.
Price, Nathan C. Variable area propulsive nozzle. 3,040,523, 6–26–62, Cl. 60—35.6.
Price, Nathan C., to Lockheed Aircraft Corp. Supersonic aircraft. 3,066,890, 12–4–62, Cl. 244—15.
Price, Nathan C. Variable geometry ram inlet and diffuser. 3,069,842, 12–25–62, Cl. 60—35.6.
Price, Nathan C. Propulsion system for aircraft. 3,070,328, 12–25–62, Cl. 244—23.
Price, Nathaniel W. Flush tank attachment for lever operation of atomizer deodorant cans. 3,068,492, 12–18–62, Cl. 4—222.
Price, Peter P. : *See*—
Eames, Charles, and Price. 3,027,210.
Price, Peter R. : *See*—
Crosfield, John F., Allen, Brimelow, and Price. 3,051,841.
Price-Pfister Brass Mfg. Co. : *See*—
Lyon, John K. 3,035,612.
Price, Ralph E., to Gardner Machine Co. Vertical spindle disc grinder. 3,018,589, 1–30–62, Cl. 51—115.
Price, Ralph E., to Landis Tool Co. Grinding machine with dual purpose grinding wheels. 3,019,562, 2–6–62, Cl. 51—3.
Price, Ralph E., to Landis Tool Co. Swivel wheelbase for universal grinding machines. 3,019,566, 2–6–62, Cl. 51—166.
Price, Ralph E., to Landis Tool Co. Automatic plunge grinder. 3,046,706, 7–31–62, Cl. 51—165.
Price, Ralph E., to Landis Tool Co. Feed mechanisms for grinding machines. 3,047,988, 8–7–62, Cl. 51—165.
Price, Ralph E., to Landis Tool Co. Control wheel drive for centerless grinders. 3,054,227, 9–18–62, Cl. 51—103.
Price, Ralph E., to Landis Tool Co. Device for effecting axial alignment between a tool and workpiece. 3,064,395, 11–20–62, Cl. 51—165.
Price, Richard P. : *See*—
Lannan, Patrick E., Prusha, and Price. 3,049,598.
Price, Richard T. : *See*—
Thompson, Kenneth W., Price, and Lewin. 3,065,156.
Price, Robert D. Pyrophoric device. 3,062,029, 11–6–62, Cl. 67—7.1.
Price, Robert L. : *See*—
Bently, Donald E., and Price. 3,057,195.
Price, Robert W. : *See*—
Haus, Joseph B., and Price. 3,042,706.
Price, Roland C. Water ski tow rope. 3,018,753, 1–30–62, Cl. 15—4.1.
Price, Stanley J., Jr., and G. Raynovich, Jr., to Consolidation Coal Co. Hydrokinetic torque converter having variable pitch blades. 3,046,745, 7–31–62, Cl. 60—54.
Price, Warren K. : *See*—
Perkins, Charles M., and Price. 3,022,792.
Price, William H., to Eastman Kodak Co. Variable magnification afocal lens converter. 3,029,700, 4–17–62, Cl. 88—57.
Price, William H., to Cities Service Research and Development Co. Recovery of oil from bituminous sands. 3,070,-541, 12–25–62, Cl. 208—11.
Price, William R., to Ford Motor Co. Tractor implement mounting linkages. 3,066,952, 12–4–62, Cl. 280—415.
Prichard, Evan S., to Challange-Cook Bros., Inc. Transit concrete mixers. 3,019,002, 1–30–62. Cl. 259—169.
Prichard, Roy, to International Telephone & Telegraph Corp. Coin controlled telephone system. 3,041,398, 6–26–62, Cl. 179—6.3.
Prichard, William W. : *See*—
Acker, Donald S., and Prichard. 3,062,635.
Prichard, William W., to E. I. du Pont de Nemours & Co. Cellulosic material resistant to mustard gas penetration. 3,034,928, 5–15–62, Cl. 117—143.
Priddy, Curtis O. : *See*—
Calk, Oberlee D., and Priddy. 3,051,118.
Pridham, Thomas G. : *See*—
Cresti, Renato, Shotwell and Pridham. 3,017,327.
Priebe, Bodo F. H., to Pertrix Union G.m.b.H. Dry cell. 3,016,414, 1–9–62, Cl. 136—107.
Priebe, Bodo, to Pertrix-Union G.m.b.H. Galvanic dry cell and electrolyte therefor. 3 019,141, 1–30–62, Cl. 136—155.
Priese, Werner K., to Hills-McCanna Co. Ball valve. 3,030,-068, 4–17–62, Cl. 251—214.
Priesmeyer, Charles, to Meyer & Wenthe, Inc. Embosser. 3,033,106, 5–8–62 ,Cl. 101—3.
Priesnitz, Frederick J. : *See*—
Knill, Raymond R., McLaughlin, Priesnitz, Conder, and Haworth. 3,019,890.
McLaughlin, Asa L., Priesnitz, Haworth, Fleming, Conder, and Frost. 3,052,455.
Priest, Reid G. Portable logging tower. 3,033,526, 5–8–62, Cl. 254—139.1.
Priest, Reid G. Log handling tongs. 3,043,620, 7–10–62, Cl. 294—118.
Priest, Robert W., to Anti-Friction Hull Corp. Anti-friction hull. 3,027,860, 4–3–62, Cl. 114—67.
Priester, Amos U., Jr., and W. B. McWhorter, to Callaway Mills Co. Method for producing a tufted fabric having a deep fleecelike surface and the resulting product. 3,034,-194, 5–15–62, Cl. 28—78.

Priestley, James J.: *See*—
Broomhead, Frank, and Priestley. 3,034,774.
Priestly, Frank P. Hot-wire cutter. 3,017,487, 1–16–62, Cl. 219—29.
Priewe, Hans, A. Poljak, and K. Junkmann, to Schering A.G., Firma. X-ray contrast agent. 3,047,466, 7–31–62, Cl. 167—95.
Prill, Erhard J., to Monsanto Chemical Co. Cyclodehydration of adducts of perhalogenated cyclopentadiene and diols. 3,058,996, 10–16–62, Cl. 260—346.2.
Prill, Erhard J., to Monsanto Chemical Co. 1,1,1-trichloro-2,2-bis[(carboalkoxy)amino]aryl ethane. 3,059,021, 10–16–62, Cl. 260—471.
Primary Mold and Machine Co.: *See*—
Elder, Boyd B., and Pontecorvo. 3,031,153.
Primas, Johann J.: *See*—
Wunthard, Hans H., and Primas. 3,034,039.
Prime Mfg. Co.: *See*—
Morgan, James I. 3,042,457.
Scott, Wayne R. 3,023,888.
Strickland, Conrad C. 3,066,426.
Primeau, George H., to General Motors Corp. Ball joint assembly for caster and camber adjustment. 3,034,810, 5–15–62, Cl. 287—14.
Primeau, Richard C. Bisight spectacles. 3,058,392, 10–16–62, Cl. 88—41.
Primeau, Remigio E. Insertable cigar holder. 3,050,068, 8–21–62, Cl. 131—13.
Prince, Arthur E., to Otis Elevator Co. Magnetic inductor switch. 3,065,318, 11–20–62, Cl. 200—87.
Prince, George W.: *See*—
Bass, Helen L. 3,024,824.
Prince, Herbert N., D. B. Reisner, and J. V. Scudi, to Wallace & Tiernan Inc. Nitrothiazole-hydroxyquinoline compositions. 3,070,498, 12–25–62, Cl. 167—58.
Prince Jidosha Kogyo Kabushiki Kaisha: *See*—
Iida, Hideo. 3,060,875.
Prince, Joseph E. Multiple pole trolling device. 3,060,614, 10–30–62, Cl. 43—6.5.
Prince, Walter N. Drill. 3,055,442, 9–25–62, Cl. 175—230.
Prince, William H., and V. J. Campbell, to The Capri Equipment Co. Collating machine. 3,052,466, 9–4–62, Cl. 271—61.
Principe, Pacifico A.: *See*—
Diassi, Patrick A., Laskin, and Principe. 3,060,176.
Prins, Daniel A.: *See*—
Renner, Ulrich, and Prins. 3,049,546.
Prins, Klaas, and A. J. Stockmeister, to Beaver Pipe Tools, Inc. Lead caulking tool. 3,026,750, 3–27–62, Cl. 78—47.
Prins N.V.: *See*—
Prins, Pier. 3,026,923.
Prins, Pier, to Prins N.V. Wheel rim comprising a detachable tire bead seat ring and locking ring. 3,026,923, 3–27–62, Cl. 152—410.
Prins, Theodorus. Device for storing liquids, more particularly oil. 3,052,380, 9–4–62, Cl. 222—95.
Printed Motors, Inc.: *See*—
Burr, Robert P. 3,023,335.
Burr, Robert P., and Keogh. 3,023,334.
Henry-Baudot, Jacques. 3,046,427.
Henry-Baudot, Jacques. 3,050,650.
Henry-Baudot, Jacques. 3,056,056.
Henry-Baudot, Jacques. 3,056,058.
Henry-Baudot, Jacques. 3,060,337.
Swiggett, Robert L. 3,023,333.
Printz, Ray, Gans, and J. Ramey, to Celanese Corp. of America. Purification. 3,039,940, 6–19–62, Cl. 202—39.5.
Prior, John R., to General Motors Corp. Speed ratio controlling steering system for track-laying vehicles. 3,056,479, 10–2–62, Cl. 192—13.
Prior, William C.: *See*—
Jones, Harold S., Dunlop, Lynch, and Prior. 3,035,961.
Priore, Philip N. Super pie plate and cutter. 3,060,838, 10–30–62. Cl. 99—430.
Prismo Safety Corp.: *See*—
De Vries, Eduard R. 3,046,851.
Pritchard, James E., W. M. Hutchinson, and P. S. Hudson, to Phillips Petroleum Co. Solid composite rubber base propellants containing quaternizing agents and metal oxides. 3,055,782, 9–25–62, Cl. 149—20.
Pritchard, Peter E., to General Electric Co. Stereophonic magnetic phonograph pick-up cartridge. 3,015,703, 1–2–62, Cl. 179—100.41.
Pritchard, Peter E., to General Electric Co. Magnetic stereophonic phonograph pickup. 3,047,677, 7–31–62, Cl. 179—100.41.
Pritchard, Peter E., to General Electric Corp. Phonograph pickup cartridge and replaceable stylus therefor. 3,062,925, 11–6–62, Cl. 179—100.41.
Pritchard, Raymond G., to E. N. Mason & Sons Ltd. Process of and apparatus for printing or copying by electrostatic photography. 3,054,897, 9–18–62, Cl. 250—49.5.
Pritchard, William C.: *See*—
Anderson, John W., Miley, and Pritchard. 3,023,119.
Pritchett, Ervin G., I. L. Mador, and L. J. Rekers, to National Distillers and Chemical Corp. Process for the preparation of diamines. 3,062,886, 11–6–62, Cl. 260—583.
Pritchett, Ray A., to F. V. Richardson. Methods of and means for assaying material having a fissionable component. 3,018,374, 1–23–62, Cl. 250—71.5.
Pritchett, Ray A., to F. V. Richardson. Ore sorting device. 3,052,353, 9–4–62, Cl. 209—111.5.
Pritchett, Wilson S., to Knopp, Inc. Electrical loading apparatus. 3,041,464, 6–26–62, Cl. 307—17.
Pritikin, Nathan. Electrical resistor and method and apparatus for producing resistors. 3,056,937, 10–2–62, Cl. 338—195.
Pritzbuer, Gustav: *See*—
Cromberg, Otto, Pritzbuer, Winterhoff, and Mayer. 3,067,476.
Private Pro Co.: *See*—
Hause, Gilbert K. 3,033,575.
Prizler, Paul D.: *See*—
Baker, William O., and Prizler. 3,019,905.
Prizler, Paul D., and J. E. Scott. Rope anchor for swimming pool installations. 3,065,576, 11–27–62, Cl. 50—464.
Prizler, Paul D., and D. A. Stanwood, to Swimquip, Inc. Swimming pool grabrail structure. 3,065,820, 11–27–62, Cl. 182—93.
Pro, George M., to Air Placement Equipment Co. Air control structure for aggregate handling machines. 3,019,058, 1–30–62, Cl. 302—53.
Pro, George M., to Air Placement Equipment Co. Anticlog device for valved openings. 3,051,189, 8–28–62, Cl. 137—242.
Probandt, George F.: *See*—
Curtis, Ralston, and Probandt. 3,063,824.
Probasco, Harold T., to Oak Mfg. Co., Inc. Dispenser. 3,018,148, 1–23–62, Cl. 312—35.
Probasco, Harold T., to Oak Mfg. Co., Inc. Coin controlled mechanism. 3,064,789, 11–20–62. Cl. 194—61.
Probst, Maurice, to General Electric Co. Covulcanizate of fluorinated polyacrylate elastomer and organopolysiloxane gum. 3,069,378, 12–18–62, Cl. 260—41.
Probsescope Co.: *See*—
Hoffmann, Richard R. 3,017,573.
Probst, Delbert C.: *See*—
Himka, John, Probst, Gilson, and Carpenter. 3,024,062.
Probst, Delbert C., to General Motors Corp. Convertible top. 3,030,140, 4–17–62, Cl. 296—107.
Probst, Richard O., to Ransburg Electro-Coating Corp. Liquid atomizing apparatus. 3,055,592, 9–25–62, Cl. 239—15.
Procedes Industriels et Charbons Actifs (P.I.C.A.): *See*—
Rouilland, Claude, and Montagnon. 3,019,185.
Process Engineers, Inc.: *See*—
Dahlstrom, Donald A. 3,024,909.
O'Malley, John B. 3,061,095.
Process Methods Corp.: *See*—
Kapral, Ales M. 3,024,160.
Kapral, Ales M. 3,029,154.
Process Solvent Co., Inc.: *See*—
Boyer, Albert J. and G. E., Austin, and Glunt. 3,054,239.
Prochaska, Hildegard D.: *See*—
Bienert, Berthold, Breig, Groll, and Gutjahr. 3,047,582.
Prochaska, Josepha A.: *See*—
Jacobs, Frederick L., and Prochaska. 3,061,438.
Prochazka, Miroslav, to Elektropodnik Hlavniho Mesta Prahy. Method of and apparatus for carrying out fatigue tests of turbine blades. 3,023,610, 3–6–62, Cl. 73—67.4.
Procter, Edward C., to Sperry Rand Corp. Reciprocating cutter mounting. 3,044,242, 7–17–62, Cl. 56—304.
Procter, Edward C., to Sperry Rand Corp. Tightener. 3,054,299, 9–18–62, Cl. 74—242.11.
Procter & Gamble Co., The: *See*—
Barr, Fredric J. 3,027,259.
Baur, Fredric J. 3,027,260.
Baur, Fredric J. 3,047 401.
Baur, Fredric J. 3,059,008.
Baur, Fredric J. 3,059,011.
Bedenk, William T. 3,037 864.
Bonham, Carl P., Copp, and Powell. 3,067,867.
Brush, John B. 3,066,579.
Burt, Robert V. 3,018,873.
Burt, Robert V. 3,049,059.
Burt, Robert V., Gex, and Bart. 3,041,806.
Chaffee, Robert H. 3,070 747.
Chaffee, Robert H., Laskey, Quimby, and Bowles. 3,066,354.
Cooley, William E., Grabenstetter, and Broge. 3,070,510.
Gex, Virgil E., and Kramer. 3,057,127.
Going, Louis H., and Janikse. 3,021,220.
Haefele, John W. 3,068,151.
Hooper, Lenard C. 3,034,177.
Lucas, Malcolm B. 3,044 667.
Lucas, Malcolm B., and Hurst. 3,048,993.
McOsker, Don E. 3,056,682.
Mills, Victor. 3,030,312.
Pengilly, Peter J. 3,031,498.
Rosekraus, David D. 3 061,519.
Schanzle, Roger E. 3,030,003.
Schmid, Dieter F., and Baur. 3,059,009.
Schmid, Dieter F., and Baur. 3,059,010.
Whyte, David D., and Korral. 3,024,273.
Zimmerer, Roger E. 3,064,031.
Procter-Silex Corp., The: *See*—
Lawser, John J. 3,035,509.
Rodwick, Frank P. 3,032,087.
Proctor, Barton A., to Proctor Dictating Machine Corp. Recording head carriage control. 3,056,302, 10–2–62, Cl. 74—2.
Proctor, Barton A., 33⅓ to A. C. Nolte. Endless belt drive and tracking means. 3,059,933, 10–23–62, Cl. 274—17.

Proctor Counter Co., The: *See*—
Davis, Andrew W. 3,049,815.
Proctor Dictating Machine Corp.: *See*—
Proctor, Barton A. 3,056,302.
Proctor, Edward K., Jr., to General Electric Co. Microwave power multiplier. 3,049,679, 8–14–62, Cl. 333—13.
Proctor, Harold W. Drill guide. 3,053,121, 9–11–62, Cl. 77—62.
Proctor, Joe W. Plant thinner. 3,057,413, 10–9–62, Cl. 172—99.
Proctor, Robert V., to The Commercial Shearing and Stamping Co. Ingot descaling mechanisms. 3,023,756, 3–6–62, Cl. 134—57.
Proctor, Ronald R.: *See*—
O'Brien, Leo J., and Proctor. 3,064,479.
Proctor & Schwartz, Inc.: *See*—
Bailey, Sidney, Jr. 3,022,926.
Franklin, John J. 3,068,987.
Marshall, William R., Jr. 3,049,174.
Proctor-Silex Corp., The: *See*—
Turner, Charles R. 3,064,091.
Turner, Charles R. 3,070,684.
Production Metal Stamping Co.: *See*—
Hamann, Harry L. 3,024,509.
Producto Machine Co.: *See*—
Coffin, Harland H. 3,055,714.
Johnson, Emil M. 3,063,319.
Produits Chimiques et Engrais d'Auby, Societe de: *See*—
Tapin, Jean H. 3,026,192.
Proell, Wayne A.: *See*—
Bowman, Norman J., and Proell. 3,015,570.
Bowman, Norman J., and Proell. 3,015,571.
Bowman, Norman J., and Proell. 3,040,087.
Butcher, Walter W., and Proell. 3,067,076.
Proell, Wayne A., to Standard Oil Co. Catalyst for NH_4NO_3 combustion. 3,028,273, 4–3–62, Cl. 149—46.
Proell, Wayne A., to Standard Oil Co. Propellent grain. 3,028,810, 4–10–62, Cl. 102—98.
Proell, Wayne A., and N. J. Bowman, to Standard Oil Co. Gun propellant. 3,020,181, 2–6–62, Cl. 149—19.
Proell, Wayne A., and W. G. Stanley, to Standard Oil Co. Ammonium nitrate-cyanide explosive. 3,044,912, 7–17–62, Cl. 149—60.
Proett, Milton A. Self-propelled electric wheelchair. 3,057,425, 10–9–62, Cl. 180—27.
Profexray, Inc.: *See*—
Craig, James R. 3,061,729.
Craig, James R., and Otto. 3,043,953.
Proffit, John D. Carpenter's tool. 3,049,336, 8–14–62, Cl. 254—17.
Proffit, Lest M. Container holder. 3,039,616, 6–19–62, Cl. 211—71.
Proffitt, Arthur C., to The Dow Chemical Co. Process for making hydrolyzed polyacrylamide. 3,022,279, 2–20–62, Cl. 260—89.7.
Proffitt, John R., Jr.: *See*—
Mehler, Albert J., Jr., Proffitt, and Taylor. 3,039,173.
Profos, Paul, to Sulzer Freres, S.A. Control system. 3,017,869, 1–23–62, Cl. 122—479.
Profos, Paul, to Sulzer Freres, S.A. Steam or vapor generator having at least two firing systems. 3,017,870, 1–23–62, Cl. 122—479.
Profos, Paul, to Sulzer Freres, S.A. Forced flow steam generating plant. 3,021,824, 2–20–62, Cl. 122—406.
Profos, Paul, to Sulzer Freres, S.A. Method and means for purifying boiler feed water. 3,036,000, 5–22–62, Cl. 210—30.
Profos, Paul, to Societe Anonyme Sulzer Freres. Steam power system. 3,052,223, 9–4–62, Cl. 122—479.
Profos, Paul, to Sulzer Freres, S.A. Forced flow steam generator and control therefor. 3,062,196, 11–6–62, Cl. 122—479.
Profos, Paul, to Sulzer Freres, S.A. Method and apparatus for operating a forced flow steam generator having a water separator interposed in its tube system. 3,064,630, 11–20–62, Cl. 122—379.
Progress Mfg. Co., Inc.: *See*—
Robinson, Sherman E. 3,039,168.
Progressive Engineering Co.: *See*—
Scott, John H. 3,024,452.
Scott, John H., and Bailey. 3,044,099.
Swanson, Kenneth P. 3,052,953.
Prohaska, Hans, to SWF-Spezialfabrik fur Autozubehor Gustav Rau G.m.b.H. Locking device for windshield wiper blade. 3,023,446, 3–6–62, Cl. 15—250.32.
Prohaska, Hans, and A. Kohler, to SWF- Spezialfabrik für Autozubehör Gustar-Rau G.m.b.H. Foot-operated bellows pump for windshield washing apparatus. 3,046,591, 7–31–62, Cl. 15—250.2.
Prohaska, Hans, R. Anschutz, and L. Blucher, to SWF-Spezialfabrik fur Autozubehor Gustav Rau G.m.b.H. Instrument housing for motor vehicles and switch construction therefor. 3,053,337, 9–11–62, Cl. 180—90.
Prohaska, Hans, and A. Kohler, to SWF-Spezialfabrik für Autozubehör Gustav Rau G.m.b.H. Connecting device for windshield wiper blade. 3,054,128, 9–18–62, Cl. 15—250.32.
Prohaska, Hans, and W. Bock, to SWF-Spezialfabrik fur Autoqubehor Gustar Rau G.m.b.H. Magnetic speedometer. 3,058,654, 10–16–62, Cl. 235—96.
Prohaska, Raymond J., to Electronic Instruments Co., Inc. Mounting bracket. 3,033,508, 5–8–62, Cl. 248—286.
Prohaska, Stephan F. Foot measuring device. 3,043,010, 7–10–62, Cl. 33—3.
Prohaska, Stephen F. Shoe soles. 3,061,952, 11–6–62, Cl. 36—59.
Projahn, Emil, to Gebruder Kollisch. Filling valve for lighter tanks. 3,019,807, 2–6–62, Cl. 137—199.
Projectile and Engineering Co. Ltd., The: *See*—
Gaspar, Emeric, Munns, and Harrison. 3,068,521.
Prokesch, Rudolf A.: *See*—
Weiss, Ernst, and Prokesch. 3,053,038.
Prokop, Charles L.: *See*—
Graham, John, Kerver, and Prokop. 3,020,954.
Proman, Inc.: *See*—
Knoppel, Curt A. 3,056,167.
Knoppel, Curt A. 3,056,706.
Promislow, Albert L., and M. H. Waldman, to Canadian Industries Ltd. Cohesion tester for textile yarns. 3,016,743, 1–16–62, Cl. 73—160.
Promotional Enduring Peace, Inc.: *See*—
Luebben, Unmo F. 3,064,556.
Pronio, Harry A. Method of extracting brains. 3,054,138, 9–18–62, Cl. 17—45.
Proops, William R.: *See*—
Fowler, George W., Crosby, and Proops. 3,021,330.
Proper, Peter: *See*—
Rosenthal, Robert W., Proper, and Greco. 3,066,165.
Propst, Robert L. Power meter. 3,044,306, 7–17–62, Cl. 73—514.
Propus, Louis. Back support mats. 3,069,203, 12–18–62, Cl. 297—453.
Proschold, Mervyn D. Means for cleaning and packaging phonograph disc records. 3,044,097, 7–17–62, Cl. 15—268.
Prosen, Emil M., to Nobilium Products, Inc. Dental attachment and method of making the same. 3,023,500, 3–6–62, Cl. 32—5.
Prosen, Stanley P.: *See*—
Barnet, Frederick R., Johnson, and Prosen. 3,026,802.
Proskauer, Walter, to Eitel-McCullough, Inc. Apparatus for spraying pants. 3,029,776, 4–17–62, Cl. 118—9.
Proskauer, Walter, to Eitel-McCullough, Inc. Electrical testing apparatus. 3,059,215, 10–16–62, Cl. 339—192.
Proskow, Stephen, to E. I. du Pont de Nemours and Co. Halothioformylcyanides and homopolymers thereof. 3,026,304, 3–20–62, Cl. 260—79.
Prosperity Co., Division of Ward Industries Corp., The: *See*—
Gayring, Wallace F., and Uhlig. 3,057,133.
Prosser, Clyde W. Portable scaffolds. 3,058,543, 10–16–62, Cl. 182—128.
Prosser, Rae A., to Union Carbide Corp. High pressure pumping apparatus. 3,019,739, 2–6–62, Cl. 103—204.
Prosser, Rae A., to Union Carbide Corp. Blending apparatus for particulate materials. 3,066,920, 12–4–62, Cl. 259—180.
Prosser, Rae A., to Union Carbide Corp. High pressure packing adaptor. 3,068,017, 12–11–62, Cl. 277—117.
Prost, Raymond J. Printing kit. 3,020,838, 2–13–62, Cl. 101—333.
Protection Equipment Co., Inc.: *See*—
Jones, Earle M. 3,031,133.
Protective Treatments Inc.: *See*—
Pereny, Louis, Gibbs, and Creager. 3,060,932.
Protectoseal Co., The: *See*—
Lisciani, Constantine. 3,032,079.
Lisciani, Constantine. 3,036,582.
Lisciani, Constantine. 3,066,689.
Protexall Face Mask Co.: *See*—
Novak, William R. Re. 25,176.
Prothers, Lloyd T.: *See*—
Evans, David C., Magnuson, Monroe, and Prothers. 3,025,124.
Protona Produktionsgesellschaft fur elektroakustische Gerate G.m.b.H.: *See*—
Gallas, Ernst. 3,070,200.
Schuh, Earl F., Genning, and Hermann. 3,016,244.
Prött, Hermann: *See*—
Grohmann, August, and Prött. 3,043,425.
Protzer, Walter, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Brüning. Process for the manufacture of chlorosuccinic acid dichlorides. 3,065,161, 11–20–62, Cl. 204—158.
Proud, Ralph A., to Thompson Ramo Wooldridge Inc. Method of forming seal rings and the like from materials having elastic memory. 3,032,824, 5–8–62, Cl. 18—56.
Proud, Ralph A., to Thompson Ramo Wooldridge Inc. Method of shaping materials with elastic memory. 3,032,825, 5–8–62, Cl. 18—56.
Proud, William H.: *See*—
Lader, Leon J., and Proud. 3,035,263.
Proudfit, Alexander, to Hazeltine Research, Inc. Automatic-gain and bandwidth control system for transistor circuits. 3,038,072, 6–5–62, Cl. 250—20.
Proudfit, Alexander, to Hazeltine Research Inc. Styli unit. 3,047,872, 7–31–62, Cl. 346—139.
Proudman, Chester F. Apparatus for treatment of sewage. 3,054,602, 9–18–62, Cl. 261—21.
Prouty, Robert E.: *See*—
Graf, Robert D., Parkins, and Prouty. 3,021,406.
Roux, Jacqueline L. Process for coating brickwork, masonry, concrete and wood and compositions therefor. 3,051,590, 8–28–62, Cl. 117—70.
Proval Corp.: *See*—
Tripp, Joseph E., and Witzel. 3,044,456.

Provance, Jason D., to Houze Glass Corp. Glass fiber. 3,044,888, 7–17–62, Cl. 106—50.
Provenzano, Arthur D., to Combustion Engineering, Inc. Bolt locking sleeve. 3,021,884, 2–20–62, Cl. 151—8.
Provi, Mike A., to The Brearley Co. Bathroom scales. 3,022,845, 2–27–62, Cl. 177—230.
Province, John H., to Phillips Petroleum Co. Hydraulic control system. 3,058,426, 10–16–62, Cl. 103—17.
Provinzano, Jack, Machines for preparing flexible sheet pieces. 3,063,710, 11–13–62, Cl. 270—61.
Prowse, Donald W., and R. G. Rayden, to The British Thomson-Houston Co. Ltd. Electric control of conveyor plants. 3,033,347, 5–8–62, Cl. 198—76.
Pruden, Harold M.: *See*—
Barnett, Cecil H., Large, and Pruden. 3,021,397.
Barnett, Cecil H., Large, and Pruden. 3,021,398.
Deming, Royce D., Jacobitti, Kennedy, Large, and Pruden. 3,046,525.
Pruden, Robert G. Tuned acoustical device. 3,047,090, 7–31–62, Cl. 181—31.
Prud'Homme, Lester L. Picnic table or bench with truss. 3,049,386, 8–14–62, Cl. 311—84.
Prue, Walter W. Roughing machine. 3,063,073, 11–13–62, Cl. 12—17.
Pruess, Louis M.: *See*—
Feldman, Louis I., Pruess, and Rigler. 3,039,937.
Pruess, Louis M., C. Pidacks, and N. E. Rigler, to American Cyanamid Co. Microbiological 11α-hydroxylation of 16α, 17α-epoxy pregnenes. 3,047,470, 7–31–62, Cl. 195—51.
Pruett, Richard D.: *See*—
Brasure, Donald E. and Pruett. 3,035,002.
Pruett, Richard D., to E. I. du Pont de Nemours and Co. Process for reacting an organic polymer with finely divided silica and resulting product. 3,061,577, 10–30–62, Cl. 260—41.
Pruett, Roy L., and D. R. Rink, to Union Carbide Corp. Cyclopentadienyl manganese polyphenyl compounds. 3,035,-072, 5–15–62, Cl. 260—429.
Pruett, Roy L., and J. E. Wyman, to Union Carbide Corp. Process for producing transition metal carbonyls. 3,053,-629, 9–11–62, Cl. 23—203.
Pruett, Roy L., and E. L. Morehouse, to Union Carbide Corp. Polymers of fulveno-metallic compounds. 3,063,974, 11–13–62, Cl. 260—80.
Pruett, Roy L., D. R. Rink, and L. Parts, to Union Carbide Corp. Process for producing arene hydrocarbon-transition metal compounds. 3,068,258, 12–11–62, Cl. 260—429.
Prugne, Pierre: *See*—
Auzolle, Robert, Chaumette, Garin, and Prugne. 3,035,-642.
Roubeau, Pierre M., Garin, and Prugne. 3,022,038.
Pruitt, Dempsey A. Plasterer's float. 3,029,459, 4–17–62, Cl. 15—235.4.
Prulov, Itzhak: *See*—
Flaszenberg, Alexander, Prulov, and Lapidot. 3,067,023.
Prunier, Louis J., to American Optical Co. Lens surfacing mechanism. 3,048,708, 7–31–62, Cl. 51—186.
Prunty, Robert E., to Oliver Corp. Control valve for hydraulic actuator. 3,035,610, 5–22–62, Cl. 137—621.
Pruppacher, Hans-Rudolf: *See*—
Sanger, Raymund, and Pruppacher. 3,056,556.
Prusha, George J.: *See*—
Lohman, Patrick E., Prusha, and Price. 3,049,598.
Prutton, Carl F., C. O. Miller, and L. A. Bryan, to FMC Corp. Process for the manufacture of barium alkyl phenates. 3,062,897, 11–6–62, Cl. 260—624.
Prutton, Daniel H. Machine for thread rolling. 3,048,065, 8–7–62, Cl. 80—7.
Prutton, Daniel H. Vibratory feeder and orientor of articles such as screw blanks. 3,068,991, 12–18–62, Cl. 198—33.
Prutzman, Paul E., Jr., to Lansing Co. Truck mirror construction. 3,031,929, 5–1–62, Cl. 88—98.
Pruvot, Emile, M. Laparra, and P. Lusagne, to Societe Electrometallurgique de Montricher. Process for refining silicon and ferrosilicons and resultant products. 3,034,886, 5–15–62, Cl. 75—53.
Pruvot, Emile, P. Baradez, R. Caillat, and R. Pointud, to Commissariat a l'Energie Atomique. Method of obtaining sintered beryllium oxide. 3,057,684, 10–9–62, Cl. 23—183.
Pry, Robert H.: *See*—
Ingold, John H., and Pry. 3,037,942.
Pry, Robert H., to General Electric Co. Cryogenic device wherein persistent current loop induced in outer superconductor maintains inner superconductor resistive. 3,061,737, 10–30–62, Cl. 307—88.5.
Prymek, Milton C.: *See*—
Nadherny, Frank J., and Prymek. 3,017,175.
Prymek, Milton C., to Western Electric Co., Inc. Coupling and transferring apparatus. 3,033,345, 5–8–62, Cl. 198—75.
Pryor, Collier C. Rotary valve. 3,064,937, 11–20–62, Cl. 251—163
Pryor, Harry H., to National Vendors, Inc. Heating apparatus. 3,035,146, 5–15–62, Cl. 219—39.
Pryor, Harry H., to National Vendors, Inc. Article vending mach.ne. 3,066,827, 12–4–62, Cl. 221—199.
Pryor, Herbert G. Coupling mechanism for tractors. 3,061,-029, 10–30–62, Cl. 180—12.
Pryor, Robert C., to Phillips Petroleum Co. Heater. 3,044,-551, 7–17–62, Cl. 166—59.
Pryor, Robert C., and R. J. Bennett, to Phillips Petroleum Co. Self contained igniter-burner and process. 3,055,427, 9–25–62, Cl. 166—39.
Pryor, William T., and C. R. Knopp, to Gulf Oil Corp. Well sampling apparatus. 3,055,764, 9–25–62, Cl. 166—109.
Prywes, Noah S.: *See*—
Bonn, Theodore, and Prywes. 3,047,231.
Przybylski, Daniel F., to The Warner & Swasey Co. Hydraulic system for digging machines. 3,018,010, 1–23–62, Cl. 214—138.
Przyscki, Theodore I., to Teletype Corp. Orientation device. 3,033,926, 5–8–62, Cl. 178—33.
Pschunder, Ralph J., to The New York Air Brake Co. Pump. 3,033,119, 5–8–62, Cl. 103—37.
Pschunder, Ralph J., to The New York Air Brake Co. Pump. 3,046,907, 7–31–62, Cl. 103—173.
Pschunder, Ralph J., to The New York Air Brake Co. Engine. 3,050 005, 8–21–62, Cl. 103—37.
Psik, Robert T., to General Motors Corp. Door hinge assembly. 3,017,659, 1–23–62, Cl. 16—146.
Psolka, John W., to Madison Window Products, Inc. Ventilated window construction. 3,034,183, 5–15–62, Cl. 20—53.
Ptacovsky, Johann: *See*—
Ertl, Walter, and Ptacovsky. 3,033,619.
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Wilbur, Paul C., Vadas, and Puccinelli, 3,045,730.
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Vincent, Pugh, and Levine. 3,039,923.
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Puhlmann, Otto: *See*—
Hackett, Theodore N., and Puhlmann. 3,045,845.
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Pukk, Erik, and R. J. Quinn, Jr., to Monitor Controller. Division of Industrial Electronics Co., Inc. Thermally controlled switch. 3,022,403, 2–20–62, Cl. 200—122.
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Frink, Richard F., and Puleston. 3.015,900.
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Pullen, Joseph A., to Pullen Molded Products, Inc. Container for shipping potted plants. 3,021,046, 2–13–62, Cl. 229—39.
Pullen, Mack J.: *See*—
Adams, William Q., and Pullen. 3,062,413.
Pullen Molded Products, Inc.: *See*—
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Greene, Charles E., and Pulley. 3,046,056.
Pulleyblank, Thomas A., to Ford Motor Co. Hinge device. 3.054,137, 9–18–62. Cl. 16—128.1.
Pulliam, Floyd R. Container. 3,019,961, 2–6–62, Cl. 229—63.
Pulliam, Samuel B.: *See*—
Grantham, Rodney E., Raff, Hoffman, Pulliam, and Yaffee. 3,034,115.
Pullin, Cyril G. Gas turbine compressor units. 3,056,539, 10–2–62, Cl. 230—45.
Pulling, Lewis L., D. C. Muessel, and H. S. Wille, to Kawneer Co. Wall construction. 3.037,591, 6–5–62, Cl. 189—34.
Pullins, Donald E. Pencil holder or the like. 3,068,840, 12–18–62, Cl. 120—23.
Pullis, George A.: *See*—
Gilman, George W., Pullis, and Spack. 3,069,501.

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Austgen, Kenneth J. 3,042,223.
Borger, Jack W. 3,069,206.
Green, Richard J., and Borger. 3,069,208.
Gutridge, Jack E. 3,051,098.
Gutridge, Jack E. 3,070,041.
Peterson, William H. 3,035,714.
Peterson, William H. 3,035,827.
Shaver, William R. 3,029,747.

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Miers, Richard E. P. 3,056,434.

Pullman-Standard Car Mfg. Co.: *See*—
Meyers, George C., and Adler. 3,035,530.
Van Der Sluys, William. 3,059,974.

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Hardy, Maurice E., and Puls. 3,030,115.

Pulsifer, Clarence D.: *See*—
Howe, Nathaniel S., Davis, Smith, Nesta, and Pulsifer. 3,066,330.
Pethybridge, Charles A. 3,015,116.
Pethybridge, Charles A., and Pulsifer. Re. 25,158.

Pulsifer, Marguerite B., executrix: *See*—
Pethybridge, Charles A., and Pulsifer. Re. 25,158.
Pethybridge, Charles A., and Pulsifer. 3,015,116.

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Price, Alfred V. 3,057,478.

Pulsifier, Orville B. Trawling device. Re. 25,165, 5–1–62, Cl. 114—235.

Pul-Vac, Inc.: *See*—
Groves, Martin V. 3,054,131.

Puma-Schuhfabrik Rudolf Dassler K.G.: *See*—
Dassler, Armin A. 3,028,689.

Pummer, Walter J.: *See*—
Wall, Leo A., and Pummer. 3,033,905.

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Wilkinson, Bruce W., Pumpelly, and Russell. 3,026,257.

Punch-Lok Co.: *See*—
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Wilson, Frank C. 3,064,514.

Punches, George L., to General Motors Corp. Steering idler arm support. 3,039,786, 6–19–62, Cl. 280—95.

Puncochar, Josef: *See*—
Matulik, Josef, Rychly, and Puncochar. 3,063,354.

Pundyk, Joseph: *See*—
Rockstrom, Leonard, and Pundyk. 3,057,572.

Punzmann, Carl: *See*—
Sulova, Ardé, and Punzmann. 3,047,944.

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Hosier, William A., and Puorro. 3,018,956.

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Henry William F., and Purcell. 3,037,696.

Purcell, William J.: *See*—
Slack, Charles M., Roman, Krasik, and Purcell. 3,039,945.

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Bachman, Gustave B., and Downs. 3,054,829.
Bachman, Gustave B., and Goldfinger. 3,054,827.
Bachman, Gustave B., and Hokama. 3,040,097.
Bachman, Gustave B., and Hokama. 3,040,100.
Bachman, Gustave B., and Standish. 3,037,061.
Brown, Herbert C., Rao, and Tierney. 3,026,329.
Comings, Edward W., McLain, and Myers. 3,038,533.
Feuer, Henry, and Miller. 3,024,289.
Feuer, Henry, and Miller. 3,040,099.
Feuer, Henry, and Miller. 3,066,169.
Hass, Henry B. 3,042,559.
Kornblum, Nathan. 3,038,015.
White, Gerald M. 3,062,941.

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Purdy, George W. Land leveler with trip blades. 3,063,178, 11–13–62, Cl. 37—152.

Purdy, Glendon M. Tree saw. 3,033,253, 5–8–62, Cl. 144—34.

Purdy, Orville S. Packaging device. 3,021,657, 2–20–62, Cl. 53—390.

Pure Oil Co., The: *See*—
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Ayers, George W., and Krewer. 3,046,318.
Ayers, George W., and Krewer. 3,061,540.
Bernard, George G. 3,060,725.
Bernard, George G., and Holbrook. 3,036,630.
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Bernard, George G., and Holbrook. 3,064,732.
Blum, Edmund D., and Hutchings. 3,033,649.
Bond, Donald C. 3,033,287.
Braunwarth, John B. 3,033,904.
Braunwarth, John B. 3,046,305.
Braunwarth, John B., and Crosby. 3,061,619.
Brennan, Elmer W., and Hall. 3,015,320.
Brennan, Elmer W., and Moyer. 3,020,747.
Carr, Norman L. 3,023,256.
Carr, Norman L. 3,047,491.
Carr, Norman L. 3,047,645.
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Chapman, Paul R., Schimmel, and Moyer. 3,045,471.
Cortiss, Warren W. 3,060,727.
Cortiss, Warren W., Gilson, and Manteuffel. 3,043,773.
Cummins, Lawrence A. 3,029,630.
Dodd, Charles G. 3,046,221.
Ellison, Lynn E., Schaschl, and Marsh. 3,061,773.
Fierce, William L., and Sandner. 3,020,126.
Fierce, William L., and Sandner. 3,020,246.
Fierce, William L., and Sandner. 3,028,413.
Fierce, William L., and Sandner. 3,033,894.
Fierce, William L., and Sandner. 3,042,705.
Fierce, William L., and Sandner. 3,056,751.
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Fierce, William L., Sandner, and Weichman. 3,037,036.
Fierce, William L., Sandner, and Weichman. 3,037,055.
Folkins, Hillis O. 3,055,814.
Geerts, Marcellus J. 3,065,284.
Geerts, Marcellus J., and Carr. 3,024,294.
Geerts, Marcellus J., Folkins, and O'Malley. 3,065,056.
Geerts, Marcellus J., and O'Malley. 3,065,057.
Hennig, Harvey. 3,065,166.
Holbrook, Orrin C. 3,036,631.
Holbrook, Orrin C., and Bernard. 3,044,544.
Holm, Le Roy W. 3,033,288.
Holm, Le Roy W. 3,065,790.
Hunter, Wesley L. 3,047,009.
Hutchings, Le Roi E. 3,037,877.
Hutchings, Le Roi E. 3,042,147.
Joo, Louis A., Kramer, and Szawlowski. 3,056,773.
Kramer, Walter E., and Joo. 3,056,763.
Lindahl, Harold A., and Hennig. 3,025,321.
Manteuffel, Allan A., and Cortiss. 3,062,743.
Marsh, Glenn A. 3,065,408.
Marsh, Glenn A., Ellison, and Schaschl. 3,047,847.
Marsh, Glenn A., and Schaschl. 3,029,195.
Marsh, Glenn A., and Schaschl. 3,042,863.
Marsh, Glenn A., and Schaschl. 3,047,478.
Marsh, Glenn A., and Schaschl. 3,056,284.
Marsh, Glenn A., and Schaschl. 3,060,721.
Marsh, Glenn A., and Schaschl. 3,062,043.
Marsh, Glenn A., and Schaschl. 3,066,082.
Martinek, Thomas W. 3,056,820.
Martinek, Thomas W. 3,061,544.
Martinek, Thomas W. 3,061,637.
Martinek, Thomas W. 3,067,136.
Millikan, Allen F. 3,031,383.
Millikan, Allen F. 3,061,608.
Mosely, Neal J. 3,047,066.
O'Brien, Leo J., and Proctor. 3,064,479.
Schaschl, Edward. 3,048,777.
Schaschl, Edward, and Marsh. 3,041,868.
Schaschl, Edward, and Marsh. 3,055,813.
Schaschl, Edward, and Marsh. 3,065,151.
Slack, Howard A. 3,033,654.
Slack, Howard A., and Brunton. 3,027,767.
Slack, Howard A., and Marsh. 3,034,042.
Webster, Willie E. 3,032,112.
Woertz, Byron B., and Holm. 3,032,101.
Wolber, James E. 3,060,728.
Wolfer, Otto J. 3,030,999.
Zitnik, Leonard C. 3,033,450.

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Purex Corp.: *See*—
Newman, Kenneth W. 3,041,285.

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Arden, Benjamin. 3,025,189.
Brevik, Elmer L. 3,033,795.
Clark, Francis E. and Newman. 3,053,897.
Dickey, Myron L. 3,061,549.
Duke, Edward M., Jr. 3,018,211.
Edds, Richard V. 3,053,720.

Purex Corp., Ltd. : *See*—Continued
Glassco, Donald E. G. 3,043,461.
Jones, Albert R., and Coffman. 3,053,719.
Morris, Frank G. 3,033,794.
Pimbley, George H. 3,066,055.
Rice, Gordon L. 3,051,457.
Vosbigian, Tro J. 3,048,547.

Purgett, Lawrence J. : *See*—
Jordan, Homer G., Purgett, Restall, and Schweizer. 3,027,432.

Purifron and Chemicals, Inc. : *See*—
Francis, Charles B. 3,044,852.
Francis, Charles B. 3,044,868.

Puritan Compressed Gas Corp. : *See*—
Boteler, William C. 3,066,923.
Carolan, Raymond J. 3,040,741.

Purittron Corp. : *See*—
Morowitz, Harold J. 3,043,977.

Purkhiser, Rawlins E., and W. F. Iceland, to Air Reduction Co. Inc. Arc welding system. 3,049,609, 8–14–62, Cl. 219—135.

Purolator Products, Inc. : *See*—
Casaleggi, Charles J. 3,070,232.
Gruner, Frederick R. 3,029,836.
Gruner, Frederick R. 3,042,215.
Gruner, Frederick R. 3,043,262.
Gruner, Frederick R. 3,058,593.
Hultgren, William H. 3,059,594.
Hultgren, William H., Charney, and Walulik. 3,069,015.
Joyce, John. 3,021,955.
Scavuzzo, William J. 3,052,206.
Scavuzzo, William J. 3,064,618.
Scavuzzo, William J., and Casaleggi. 3,028,009.
Scavuzzo, William J., and Hultgren. 3,022,764.
Wilhelm, John R. 3,036,711.

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Evans, Richard H., and Purple. 3,034,485.

Purre, Heino : *See*—
Rogers, Allen S., and Purre. 3,024,013.

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Carson, Don B., and Purse. 3,040,777.

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Pursel, Harold R., to Beaumont Birch Co. Cut-off gate type valve. 3,059,893, 10–23–62, Cl. 251—77.

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Surine, William R., Pursglove, and Stoesser. 3,061,632.

Pursglove, Laurence A., to The Dow Chemical Co. N-(salicyl)-benzamide derivatives. 3,057,919, 10–9–62, Cl. 260—558.

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Puryear, Dewey J. Hose removing tool. 3,061,915, 11–6–62, Cl. 29—235.

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Puschel, Walter, O. Wahl, W. Pelz, and H. I. Schellenberger, to Agfa Aktiengesellschaft. Color photography. 3,028,-238, 4–3–62, Cl. 96—53.

Puschhof, Siegfried : *See*—
Feichtinger, Hans, and Puschhof. 3,067,092.

Pusey, Brandon B. : *See*—
Seubert, William A., and Pusey. 3,059,656.

Puster, Louis M., to Robertshaw-Fulton Controls Co. Pneumatic controller. 3,055,384, 9–25–62, Cl. 137—85.

Putco Operating and Technical Services Ltd. : *See*—
Tompkins, George M. 3,059,905.

Puterbaugh, Charles Ray. Fastener for license plates and the like. 3,065,660, 11–27–62, Cl. 85—5.

Puth, George J. Crimping die assembly for shotgun shell loading machine. 3,036,489, 5–29–62, Cl. 86—39.

Putman, Laurel E., to Superior Air Products Co. Vaporization of liquefied gases. 3,058,317, 10–16–62, Cl. 62—52.

Putnam Edgar G., and F. G. Greaves, to National Bank of Commerce of Seattle. Continuous cooker. 3,034,576, 5–15–62, Cl. 162—237.

Putnam, Nelson E. : *See*—
Bogater, John P., Loria, and Putnam. 3,019,934.

Putnam, Robert E. : *See*—
McKusick, Blaine C., and Putnam. 3,035,034.

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Putnam Rolling Ladder Co., Inc. : *See*—
Basile, Gene E., and Gillman. 3,042,140.

Putt, Roy R. : *See*—
Noall, John, and Putt. 3,019,153.

Putter, Irving : *See*—
Rothrock, John W., and Putter. 3,032,547.

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Putt-Er-Up Enterprises, Inc. : *See*—
Brinati, William, and Sylvester. 3,070,372.

Putz, John L., to General Electric Co. Electron discharge devices. 3,054,017, 9–11–62, Cl. 315—3.6.

Putzer, Robert M. : *See*—
Larson, Arne V., Marshek, Putzer, Schroeder, Wright, and Mann. 3,023,826.

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Puzar, Vincent D. : *See*—
Ruffing, Norman R., Amos and Puzar. 3,017,426.

Pye, David J., to The Dow Chemical Co. Method for increasing filler retention in paper. 3,052,595, 9–4–62, Cl. 162—164.

Pye Ltd. : *See*—
Bancroft, Norman R. 3,054,006.
Barnard, Clifford A. 3,026,370.
Cope, John E. 3,054,020.
Fuller, Dennis Q. 3,059,124.
Germany, Leslie W., and Kingsbury. 3,055,975.
Germany, Leslie W., and Whiting. 3,038,025.
Goff, George B. F., and Whiting. 3,060,343.
Kingsbury, John. 3,020,016.
Kingsbury, John, and Bauer. 3,062,916.
Martinez, Pedro. 3,055,974.
McKnight, Terence C. 3,022,431.
Nurse, Michael J. D. 3,053,933.
Ridgeway, Denis V. 3,015,683.
Ridgeway, Denis V. 3,051,861.
Ridgeway, Denis V. 3,055,973.
Stephenson, Patrick H. 3,031,090.
Weighton, Donald. 3,054,021.

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Pyle and Fisher : *See*—
Wheeler, Charles J. 3,059,607.

Pyle-National Co., The : *See*—
Burton, Alvin R., and Nava. 3,029,407.
Nava, Joseph A., and Archer. 3,017,597.
Nava, Joseph A., and Hume. 3,068,443.
Steigerwald, Carl J. 3,016,431.

Pyle, Ray L. : *See*—
Wheeler, Charles J. 3,060,607.

Pyles, George S. : *See*—
Trumbull, Donald E., Devine, and Pyles. 3,042,264.
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Pyles, George S., to Pyles Industries, Inc. Sealant gun. 3,032,268, 7–3–62, Cl. 222—327.

Pyles Industries, Inc. : *See*—
Pyles, George S. 3,042,268.
Trumbull, Donald E. 3,066,836.
Trumbull, Donald E., and Devine. 3,053,457.
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Pyne, William J., to Diamond Alkali Co. Phenolic lamprey larvicides. 3,052,601, 9–4–62, Cl. 167—46.

Pyramid Rubber Co., The : *See*—
Boston, Frank E. 3,044,649.
Marsh, Carl E., and Boston. 3,022,914.

Pyrate Sales, Inc. : *See*—
Kennedy, Merritt T., Jr. 3,052,574.

Pyrene Co. Ltd., The : *See*—
Henshaw, Thomas A. 3,040,758.
Humphrey, Robert. 3,057,656.

Pyrethrum Board of Kenya, The : *See*—
Goldberg, Alan A., and Smith. 3,063,893.

Pyrexon Ray Co. Ltd. : *See*—
Cooke, James R. 3,017,493.

Pyromet Corp. : *See*—
Huntington, Morgan G. 3,022,157.

Pyronics, Inc. : *See*—
Dadas, Gust A. 3,025,405.

Pyzel, Robert, to Union Commerce Bank. Hydraulic cement process. 3,022,989, 2–27–62, Cl. 263—53.

Q-Tips Inc. : *See*—
Zeidman, Robert. 3,044,680.

Quaas, Joseph F. : *See*—
Wasserman, Rene D., and Quaas. 3,023,130.
Wasserman, Rene D., and Quaas. 3,031,346.

Quaas, Joseph F., to Entectic Welding Alloys Corp. Tubular welding rod. 3,033,977, 5–8–62, Cl. 219—146.
Quackenbush, Edward C., to The Whitney Blake Co. Tamper proof electrical connector. 3,020,513, 2–6–62, Cl. 339—91.
Quackenbush, Edward C., to The Whitney Blake Co. Sealed electrical connector. 3,026,495, 3–20–62, Cl. 339—62.
Quackenbush, Edward C., to The Whitney Blake Co. Axially mating electrical connector. 3,066,272, 11–27–62, Cl. 339—60.
Quackenbush, Robert C. Power operated hand router. 3,034,549, 5–15–62, Cl. 144—136.
Quackenbush, Robert C. Pneumatic hand tool. 3,043,274, 7–10–62, Cl. 121—36.
Quackenbush, Stanley G., and A. P. Cole, Jr. Game. 3,068,009, 12–11–62, Cl. 273—87.
Quade, Edward A., to International Business Machines Corp. Magnetic transducer. 3,017,617, 1–16–62, Cl. 340—174.1.
Quade, Edward A., to International Business Machines Corp. High speed magnetic drum. 3,029,416, 4–10–62, Cl. 340—174.1.
Quade, Edward A., and W. E. Steele, to International Business Machines Corp. High speed reaction drum. 3,063,041, 11–6–62, Cl. 340—174.1.
Quadflieg, Therese: *See*—
Schönberg, Manfred, Wirtz, and Quadflieg. 3,020,293.
Quaedvlieg, Mathieu: *See*—
Hagge, Walter, Krause, Quaedvlieg, Schlachter, and Schonol. 3,065,110.
Hagge, Walter, Matthaeus, and Quaedvlieg. 3,024,229.
Hagge, Walter, Quaedvlieg, and Seifert. 3,038,866.
Quaedvlieg, Mathieu, and G. Matthaeus, to Farbenfabriken Bayer Aktiengesellschaft. Alkali-metal salts of dicarboxylic acid mono-esters of carbamide esters of sugars. 3,063,-983, 11–13–62, Cl. 260—234.
Quail, Bernard W.: *See*—
Thomsen, William A. V., Morgan, and Quail. 3,016,920.
Quail, Bernard W., to Specialties Development Corp. Seal for reciprocating valve. Re. 25,251, 10–9–62, Cl. 251—172.
Quail, Bernard W., and C. B. Morgan, to Specialties Development Corp. Inflation equipment. 3,017,907, 1–23–62, Cl. 141—197.
Quakenbush, Howard M., to National Furniture Mfg. Co. Upholstered furniture. 3,068,495, 12–18–62, Cl. 5—353.7.
Quaker Chemical Products Corp.: *See*—
Barker, George E. 3,051,655.
Kress, Bernard H. 3,051,674.
Quaker Maid Kitchens, Inc.: *See*—
Wenger, Arthur D. 3,053,582.
Quaker Oats Co., The: *See*—
Boss, Charles G. 3,031,079.
Brown, Lloyd H. 3,070,551.
Brown, Lloyd H., and Hill. 3,020,609.
Dunlop, Andrew P., and Eftax. 3,047,586.
Dunlop, Andrew P., and Manly. 3,020,291.
Dunlop, Andrew P., and Manly. 3,030,430.
Dunlop, Andrew P., Manly, and O'Halloran. 3,065,243.
Gould, Max R., Carroll, and Cervantes. 3,046,139.
Graham, William R., Jr., and Grogg. 3,054,677.
Manly, Donald G. 3,021,342.
Manly, Donald G. 3,021,343.
Quaker Stretcher Co.: *See*—
Klein, Edward. 3,017,034.
Qualey, Jack P.: *See*—
Larson, Wesley S., and Qualey. 3,053,726.
Qualheim, Harold J. Food slicing machine. 3,066,714, 12–4–62, Cl. 146—102.
Quality Die Co.: *See*—
Hoffmann, Erich O. 3,019,724.
Quality Metal Finishing Co.: *See*—
Barron, Raymond C., Stevens, and Way. 3,024,576.
Quam, Irvin: *See*—
Mayer, Joseph S. 3,038,256.
Quanbeck, Sherman H. Yieldable draft attachment for agricultural implements. 3,052,308, 9–4–62, Cl. 172—264.
Quarmby, Robert C., to United Shoe Machinery Corp. Machines for reducing and roughing shoe parts. 3,061,853, 11–6–62, Cl. 12—17.
Quartz & Silice S.A.: *See*—
Holmberg, Karl E. O. 3,050,367.
Quarve, Norman J. Venetian blind slat tilting device. 3,033,282, 5–8–62, Cl. 160—176.
Quarve, Vernon K.: *See*—
Rodgers, John L., Jr., and Quarve. 3,040,378.
Rodgers, John L., Jr., and Quarve. 3,053,961.
Quast, Gilbert W., to Chain Belt Co. Apparatus for flotation of suspended material. 3,015,396, 1–2–62, Cl. 210—221.
Quast, Gilbert W., to Chain Belt Co. Influent apparatus for flotation tanks. 3,015,621, 1–2–62, Cl. 210—205.
Quast, Ray G.: *See*—
Natho, Paul J., and Quast. 3,064,687.
Quatinetz, Max: *See*—
Lacks, Hyman, Quatinetz, and Freiberger. 3,030,797.
Quayle, George F., to The Yale & Towne Mfg. Co. Leverage system for secondary lift. 3,024,927, 3–13–62, Cl. 214—131.
Quayle, George F., to The Yale & Towne Mfg. Co. Carriage control for lift trucks. 3,034,675, 5–15–62, Cl. 214—730.
Quayle, George F., to The Yale and Towne Mfg. Co. Tinplate coil handler. 3,038,622, 6–12–62, Cl. 214—350.
Quayle, George F., to The Yale and Towne Mfg. Co. Carriage mounting for lift truck. 3,044,576, 7–17–62, Cl. 187—9.
Quayle, George F., to The Yale and Towne Mfg. Co. Coil upender. 3,055,512, 9–25–62, Cl. 214—1.
Quayle, George F., to The Yale and Towne Mfg. Co. Power steering for industrial truck. 3,056,461, 10–2–62, Cl. 180—52.
Quayle, George F., to The Yale and Towne Mfg. Co. Vehicle steering system. 3,057,429, 10–9–62, Cl. 180—79.2.
Quayle, George F., to The Yale & Towne Mfg. Co. Lift truck load chain sheave construction. 3,062,325, 11–6–62, Cl. 187—9.
Quayle, George F., to The Yale and Towne Mfg. Co. Hydraulic control for truck lifting mechanism. 3,067,887, 12–11–62, Cl. 214—131.
Quayle, Jackson C. Compression dead end splice. 3,018,319, 1–23–62, Cl. 174—79.
Quednau, Walter J. Piano action. 3,048,074, 8–7–62, Cl. 84—240.
Queen, James L., to ACF Industries, Inc. Amplitude sensitive transponder. 3,049,704, 8–14–62, Cl. 343—6.
Queer, Thomas H. Auger type mining machines. 3,066,924, 12–4–62, Cl. 262—19.
Quellmalz, Wolfram, to Daimler-Benz Aktiengesellschaft. Control element for raising and lowering a window of a motor vehicle. 3,059,959, 10–23–62, Cl. 296—44.
Quenard, Francois Ernest, to Societe Savoisienne de Produits Chimiques. Manipulation of cylinders of dissolved acetylene. 3,040,767, 6–26–62, Cl. 137—259.
Queneau, Paul E., and B. M. S. Kalling, to The International Nickel Co., Inc. Method of producing ferro-nickel from nickel-containing silicate ores. 3,030,201, 4–17–62, Cl. 75—21.
Queneau, Paul E., and L. S. Renzoni, to The International Nickel Co., Inc. Autogenous pyrometallurgical production of nickel from sulfide ores. 3,069,254, 12–18–62, Cl. 75—82.
Quenneville, Raymond N., to United Aircraft Corp. Pressure regulating apparatus for fluid conduit. 3,035,607, 5–22–62, Cl. 137—505.18.
Quenot, Michel. Measuring tape. 3,053,470, 9–11–62, Cl. 242—84.8.
Quercetti, Louis C.: *See*—
Lenzi, Marie A., and Quercetti. 3,068,055.
Quercio, Frederick, Jr., 50% to N. S. Blogdett. Smoking accessory. 3,057,465, 10–9–62, Cl. 206—41.
Quesengaser, Robert E. Fence construction. 3,021,116, 2–13–62, Cl. 256—72.
Quesenberry, Milford S., Jr. Jig. 3,036,609, 5–29–62, Cl. 144—288.
Quesinberry, Robert S., to Flow Equipment Co. Fluid control mechanism. 3,049,331, 8–14–62, Cl. 251—14.
Quesnel, Gerald E.: *See*—
Cochrane, Hugh M., and Quesnel. 3,048,317.
Quest, Karl: *See*—
Keller, Richard, Quest, Schroer, and Lochschmidt. 3,048,206.
Plock, Karl, Keller, and Quest. 3,032,077.
Quest, Karl, and K.-H. Rusack, to Dr. B. Kaiser, and Dr. E. Pauls. Method and apparatus for heating of especially carbon dioxide containing beverages prior to hot-racking. 3,053,669, 9–11–62, Cl. 99—211.
Quibell, Yearl J. Automatic marker changer. 3,021,905, 2–20–62, Cl. 172—127.
Quick, Elmer J.: *See*—
Polzin, Donald H., and Quick. 3,028,999.
Quick, Howard G., Jr.: *See*—
Bundschuh, John J., and Quick. 3,025,776.
Quick-N-Easy Products, Ltd.: *See*—
Ellingson, La Verne O. 3,064,841.
Treydte, Paul E. 3,064,868.
Quick-Pack Inc.: *See*—
Nichols, Charles T. 3,065,845.
Quick-Set, Inc.: *See*—
Long, Paul C. 3,015,468.
Quigel, Derrell G.: *See*—
Catelli, Frank F., and Quigel. 3,046,389.
Quilico, Adolfo: *See*—
Chiusoli, Giampaolo, Minisci, and Quilico. 3,062,851.
Quilley, Ettenri P. M. Steering wheels for motor vehicles. 3,064,495, 11–20–62, Cl. 74—552.
Quilling, Marshall L. Apparatus to prevent fishing holes from freezing. 3,025,852, 3–20–62 Cl. 126—271.2.
Quilter, John R. C., to G.Q. Parachute Co. Ltd. Parachute pack. 3,018,074, 1–23–62, Cl. 244—147.
Quimby, Grady F.: *See*—
George, James R. 3,057,431.
Quimby, Oscar T.: *See*—
Chaffee, Robert H., Laskey, Quimby, and Bowles. 3,066,354.
Quinche, Albert, and E. Lecluyse, to American Can Co. Method of closing the open end of a plastic container. 3,052,926, 9–11–62, Cl. 18—59
Quinio, Louis, Sr. Cutting combs. 3,041,721, 7–3–62, Cl. 30—30.
Quinkert, Gerhard: *See*—
Barton, Derek H. R., and Quinkert. 3,032,491.
Quinlan, Donald E., to Fairchild Camera and Instrument Corp. Television synchronizing system. 3,027,422, 3–27–62, Cl. 178—69.5.
Quinn, Bert A. Hydraulic door closer. 3,028,620, 4–10–62, Cl. 16—52.
Quinn, Bert A., to Ideal Brass Works, Inc. Door latch mechanism. 3,039,804, 6–19–62, Cl. 292—254.

Quinn, Charlene: *See*—
Quinn, Harold C. 3,062,447.
Quinn, Clark E., to General Motors Corp. Vehicle guidance system. 3,037,575, 6–5–62, Cl. 180—79.1.
Quinn, Donald R.: *See*—
Horner, Clifford E., Quinn, and Thayer. 3,046,202.
Quinn, Edward, to United Shoe Machinery Corp. Sewing machines. 3,020,861, 2–13–62, Cl. 112—34.
Quinn, Edward, to United Shoe Machinery Corp. Shoe sewing machines. 3,051,105, 8–28–62, Cl. 112—52.
Quinn, Elizabeth W. Lipstick attachment. 3,062,221, 11–6–62, Cl. 132—88.7.
Quinn, Elizabeth W. Lipstick attachment. 3,062,222, 11–6–62, Cl. 132—88.7.
Quinn, George W. Device for making drawings. 3,063,162, 11–13–62, Cl. 35—26.
Quinn, Halsey P., to Tung-Sol Electric Inc. Firing circuit for ignition systems. 3,049,642, 8–14–62, Cl. 315—206.
Quinn, Joseph G., deceased, by C. Quinn, administratrix. Furnace temperature control system. 3,062,447, 11–6–62, Cl. 236—46.
Quinn, James A.: *See*—
Gucker, George C., Hardigan, Xenakis, and Quinn. 3,033,462.
Quinn, James D., to E. I. du Pont de Nemours and Co. Equipment performance recorder. 3,059,238 10–16–62, Cl. 346—34.
Quinn, James L., to Cummins-Chicago Corp. Multiple input sensing apparatus. 3,020,524, 2–6–62, Cl. 340—147.
Quinn, James L., to Cummins-Chicago Corp. Automatic character reading apparatus. 3,033,448, 5–8–62, Cl. 235—61.11.
Quinn, James L., to Cummins-Chicago Corp. Control for coin dispensing apparatus. 3 048,181, 8–7–62, Cl. 133—2.
Quinn, James L., and J. K. Duncan, to Cummins-Chicago Corp. Card width sensing device. 3,021,950, 2–20–62, Cl. 209—82.
Quinn, James L., and J. E. Jones, to Cummins-Chicago Corp. Application of coded indicia to records. 3,033,444, 5–8–62, Cl. 234—41.
Quinn, James L., and J. E. Jones, to Cummins-Chicago Corp. Coded information reading apparatus. 3,033,449, 5–8–62, Cl. 235—61.11.
Quinn, James M.: *See*—
Hiestand, Harry E., and Quinn. 3,054,771.
Quinn, James M., to E. I. du Pont de Nemours and Co. Process comprising blending a halogenated polymer with a fused polynuclear hydrocarbon. 3,054,767, 9–18–62, Cl. 260—33.6.
Quinn, James M., to E. I. du Pont de Nemours and Co. Process comprising blending a halogenated polymer with an alkyl benzene. 3,054,768, 9–18–62, Cl. 260—33.6.
Quinn, John F.: *See*—
Hahn, John H., and Quinn. 3,042,719.
Quinn, Lester: *See*—
Rutten, Walter. 3 051,214.
Quinn, Patrick J. Jack. 3,053,506, 9–11–62, Cl. 254—119.
Quinn, Robert G.: *See*—
Adomshick, George J., and Quinn. 3,053,727.
Quinn, Robert G., to Johns-Manville Corp. Reinforced pipe line felt. 3,037,895, 6–5–62, Cl. 154—44.
Quinn, Robert J., Jr.: *See*—
Fick, Erik, and Quinn. 3,022,403.
Quinn, Ross A., and R. F. Karlak, to Lockheed Aircraft Corp. Method of coating a body with titanium and related metals. 3,022,201, 2–20–62, Cl. 117—221.
Quinn, Tom W., to Continental Oil Co. Instrument anchoring device. 3,064,737, 11–20–62, Cl. 166—214.
Quinones Nicanor Q.: *See*—
Hardy, Robert A., Jr., Howell, and Quinones. 3,029,189.
Hardy, Robert A., Jr., Howell, and Quinones. 3,037,990.
Hardy, Robert A., Jr., Howell, and Quinones. 3,047,461.
Quint, Ferdinand: *See*—
Bestian, Herbert, Schafer, and Quint. 3,022,316.
Quint, William M. Vehicle loading and unloading conveyor structure. 3,025,982, 3–20–62, Cl. 214—83.36.
Quinto, Mario. Fastening means having undulating substructure-engaging surface. 3,053,300, 9–11–62, Cl. 151—41.72.
Quiring, Edward. Meat tenderizing attachment for electric mixers. 3,066,350, 12–4–62, Cl. 17—25.
Quirk, Douglas W., to General Electric Co. Baseboard wiring device provided with combination thermostatic switch and manual pushbutton switch temperature control system. 3,026,393, 3–20–62, Cl. 200—138.
Quirk, Douglas W., to General Electric Co. Baseboard electric heating system and electric heating units therefor. 3,026,398, 3–20–62, Cl. 219—34.
Quirk, Robert F., to Sylvania Electric Products Inc. Methods of coating fluorescent lamps. 3,055,767, 9–25–62, Cl. 117—33.5.
Quisel, Gordon D. Apparatus and method for incorporating straws in bottled beverages. 3,038,281, 6–12–62, Cl. 53—25.
Quistgaard, Erik V.: *See*—
Karlsson, Sven-Olof, and Quistgaard. 3,024,668.
Quittner, George F. Electric motor starter. 3,067,370, 12–4–62, Cl. 318—137.
RAP Industries, Inc.: *See*—
Anderson, Harlan V. 3,061,493.
RB and P Chemical and Supply, Inc.: *See*—
Bentner, Grant C. 3,060,848.

R.C. Can Co.: *See*—
Geist, William L. 3,036,502.
Geist, William L. 3,036,503.
REF Mfg. Corp.: *See*—
Fiori, Anthony J. 3,030,874.
R.I. Patents, Inc.: *See*—
Arnoldy, Roman F. 3,060,307.
R.M.P. Industries Ltd.: *See*—
Vozler, Jacques. 3,064,110.
R-N Corp.: *See*—
Moklebust, Olav. 3,026,627.
Moklebust, Olav, and Walker. 3,026,728.
Reed, George G., Jr., and Beer. 3,068,090.
RNB Corp.: *See*—
Justheim, Clarence I., and Huntington. 3,028,330.
RPM Kommandiittiyhtio P. Wuorenjuuri: *See*—
Lemmetty, Matti S. 3,035,456.
R.P.T.Z. Patco Inc.: *See*—
Pickrell, Hugh E., Jr. 3,033,150.
R. & R. Carbide Mfg. Co. Inc.: *See*—
Ruggeberg, Hans. 3,042,994.
RS Electronics Corp.: *See*—
Isabeau, John G. 3,020,401.
RT & E Corp.: *See*—
Link, Edwin A. 3,018,349.
Link, Edwin A. 3,018,415.
Nelson, Rolland D. 3,024,338.
Raab, Joseph F. Bowling ball rolling device. 3,033,567, 5–8–62, Cl. 273—54.
Raabe, Gottfold, to Robert Bosch, G.m.b.H. Device for slicing semiconductor crystals and the like. 3,032,026, 5–1–62, Cl. 125—21.
Raap, Werner: *See*—
Bashor, Nelson P., and Raap. 3,045,130.
Raasch, Maynard S., to E. I. du Pont de Nemours and Co. Vinylene oxygenated sulfur fungicides. 3,066,070, 11–27–62, Cl. 167—22.
Rabb, Lester R.: *See*—
Moore, Robert R., and Rabb. 3,068,404.
Moore, Robert R., and Rabb. 3,070,746.
Rabbitt, John. Fuel burner. 3,016,949, 1–16–62, Cl. 158—104.
Rabbitts, Leonard C., to Dorr-Oliver Inc. Deckle strap for decker filter. 3,059,778, 10–23–62, Cl. 210—297.
Rabe, Heinz: *See*—
Bessler, Alfred, Rabe, Dobbelstein, and Von Ey. 3,056,472.
Bessler, Alfred, Rabe, Dobbelstein, and Von Ey. 3,065,829.
Rabe, Karl: *See*—
Porsche, Ferdinand, Rabe, and Eberle. 3,049,930.
Rabenda, Edward J., to International Business Machines Corp. Inductively controlled card reading. 3,043,504, 7–10–62, Cl. 235—61.11.
Rabenda, Edward J., and M. A. Every, to International Business Machines Corp. Data selector. 3,040,300, 6–19–62, Cl. 340—172.5.
Rabenold, Raymond F., to Tidewater Oil Co. Envelope. 3,062,431, 11–6–62, Cl. 229—73.
Raber, Robert A., Jr., to General Electric Co. Pulse generating apparatus. 3,046,419, 7–24–62, Cl. 307—106.
Rabeux, Jean, and R. Jacob, to Societe d'Applications Generales de Electricite & de Mecanique. Centrifugal electric switching device for controlling the unwinding of yarn in textile machines and the like. 3,043,926, 7–10–62, Cl. 200—61.18.
Rabin, Richard S. Oken, and M. J. Slavin, to Sperry Rand Corp., Ford Instrument Co. Division. Synchro to digital converter. 3,023,959, 3–6–62, Cl. 235—154.
Rabinovici, Iocheved: *See*—
Hecker, Arthur C., Pollock, and Rabinovici. 3,028,352.
Rabinow Engineering Co., Inc.: *See*—
Brown, Robert G. 3,017,829.
Fischer, William. 3,069,494.
Holt, Arthur W. 3,020,995.
Rabinow, Jacob. 3,029,676.
Rabinow, Jacob. 3,031,196.
Rabinow, Jacob. 3,070,213.
Rabinow, Jacob. 3,070,767.
Rabinow, Jacob, and Rosenberg. 3,031,062.
Rabinow, Jacob, ½ to M. L. Labman. Safety automatic regulator for timepieces. 3,016,687, 1–16–62, Cl. 58—109.
Rabinow, Jacob, to Rabinow Engineering Co., Inc. Fast response magnetic friction clutch. 3,019,876, 2–6–62, Cl. 192—84.
Rabinow, Jacob, 50% to M. Libman. Positive-action automatic rate regulation for timepieces. 3,025,664, 3–20–62, Cl. 58—85.5.
Rabinow, Jacob, to Rabinow Engineering Co., Inc. Punch press having magnetic reactive forces. 3,029,676, 4–17–62, Cl. 83—382.
Rabinow, Jacob, to Rabinow Engineering Co., Inc. Tone arm damper. 3,031,196, 4–24–62, Cl. 274—23.
Rabinow, Jacob. Fluid operated switch. 3,056,003, 9–25–62, Cl. 200—81.9.
Rabinow, Jacob, to Rabinow Engineering Co., Inc. Mechanical memory. 3,070,213, 12–25–62, Cl. 198—38.
Rabinow, Jacob, to Rabinow Engineering Co., Inc. Socket adapter. 3,070,767, 12–25–62, Cl. 338—70.

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Rabinow, Jacob, and H. K. Skramstad, to United States of America, Navy. Gyro control system. 3,066,895, 12–4–62, Cl. 244—79.
Rabinowitz, Robert, to American Cyanamid Co. Phosphine oxides and preparation thereof. 3,064,053, 11–13–62, Cl. 260—606.5.
Rabins, Leonard, to General Electric Co. Winding arrangement for foil wound transformer. 3,054,974, 9–18–62, Cl. 336—60.
Rabjohn, Rodney R. Power operated wheel chair. 3,023,825, 3–6–62, Cl. 180—15.
Rabl, Richard, to Accumulatoren-Fabric Aktiengesellschaft. Apparatus for forming a layer of pulverulent material. 3,024,948, 3–13–62, Cl. 222—280.
Rabson, Edward J., to Birfield Engineering Ltd. Mechanisms comprising a plunger sliding within a cylinder and lubrication arrangements therefor. 3,063,266, 11–13–62, Cl. 64—32.
Rabson, Thomas A. : *See*—
Jenny, William P., and Rabson. 3,023,359.
Race, Edward : *See*—
Hindle Thomas, and Race. 3,063,127.
Race, Richard T., to Motorola, Inc. Electric generator. 3,020,466, 2–6–62, Cl. 322—28.
Race, Ruath J., to Scripto, Inc. Steel ball for ball point pens and method for producing same. 3,025,835, 3–20–62, Cl. 120—42.4.
Race, William F. Adjusting tool for vehicle tie rods. 3,040,421, 6–26–62, Cl. 29—240.
Racely, Kermit L. : *See*—
Burch, Jack E., Oakes, and Racely. 3,064,289.
Racette, Henry W., and L. L. Grant, Jr. Quick release safety belt buckle. 3,042,986, 7–10–62, Cl. 24—170.
Rachal, Ezra. Panless paint roller. 3,049,746, 8–21–62, Cl. 15—575.
Rachlin, Philip, to Eastern Research Corp. Polishing machine with aerosol dispenser. 3,055,031, 9–25–62, Cl. 15—50.
Rachlin, Philip, to Eastern Research Corp. Polishing machine with aerosol dispenser. 3,058,136, 10–16–62, Cl. 15—50.
Rachlis, Robert E. : *See*—
Roth, Irving, and Rachlis. 3,061,727.
Rachman, Isadore B., and S. Bobb, to All-Luminum Products, Inc. Furniture strut. 3,029,115, 4–10–62, Cl. 311—89.
Rachwalski, Alfons Z., to Jetronic Industries, Inc. Pulse type depth sounder. 3,061,812, 10–30–62, Cl. 340—3.
Racicot, Albert R., to National Brush Co. Multi-part collapsible snow and ice removing device. 3,017,649, 1–23–62, Cl. 15—145.
Racina, Joseph L. Golf shoe cleat cleaner. 3,028,617, 4–10–62, Cl. 15—160.
Racine Hydraulics and Machinery, Inc. : *See*—
Henke, Russell W., Brannon, Hellenberg, and Dadian. 3,057,161.
Raymond, Robert E. 3,067,772.
Racine Industrial Plant, Inc. : *See*—
Rench, Harry D., and Harris. 3,061,165.
Racine, Jean : *See*—
Couillaud, Andre, and Racine. 3,037,041.
Racine, Juliette G. G. D. : *See*—
Andre, Couillaud, and Racine. 3,037,041.
Rack, Alois J. : *See*—
Bullock, Donald B., Cocker, and Rack. 3,064,208.
Rack Specialists, Inc. : *See*—
Arnold, Delevan J., and Sylvester. 3,025,986.
Coash, Robert E., and Kendall. 3,050,205.
Sylvester, Rowland L., and Romine. 3,038,613.
Rackis, Joseph J., and A. K. Smith, to United States of America, Agriculture. Soybean trypsin inhibitors and method of isolating the same. 3,049,530, 8–14–62, Cl. 260—123.5.
Rackleyeft, Carl E. Suction cleaner. 3,032,954, 5–8–62, Cl. 55—282.
Racusen, David W., and M. Legator, to Shell Oil Co. Soil fumigant. 3,052,598, 9–4–62, Cl. 167—39.
Raczynski, Walter A., R. F. Thomas, and A. E. Uhl, to Ditto, Inc. Duplicating process. 3,049,994, 8–21–62, Cl. 101—149.5.
Radar Relay, Inc. : *See*—
Arrasmith, William C. 3,019,428.
Radcliffe, Arthur J., Jr., M. Ribner, and W. V. Sayner, to International Telephone and Telegraph Corp. Relayless line circuit. 3,029,315, 4–10–62, Cl. 179—27.
Radcliffe, Floyd H. Power lavatory flushing apparatus. 3,019,453, 2–6–62, Cl. 4—249.
Radcliffe, Nigel T., and H. R. Flowers, to Allied Ironfounders Ltd. Apparatus for individually dispensing heat-accumulative elements. 3,055,547, 9–25–62, Cl. 221—232.
Radcliffe, Robert W. Apparatus for the recovery of precious metals. 3,019,899, 2–6–62, Cl. 209—435.
Radcor, Inc. : *See*—
Barber, Ira J. 3,061,703.
Radd, Frederick J. : *See*—
McGlasson, Robert L., Radd, and Shock. 3,030,296.
Radek, John. Wall panel structure. 3,022,869, 2–27–62, Cl. 189—34.
Radek, John R., to Ready Metal Mfg. Co. Merchandise display equipment. 3,015,399, 1–2–62, Cl. 211—134.
Rademacher, Joseph A. : *See*—
Dahlin, Bernard A., Rademacher, and Filipowicz. 3,045,885.
Rademaekers, William H. : *See*—
Phillips, John H., Ozimek, and Rademaekers. 3,023,787
Rader, Harold K. Adjustable piston cushion. 3,034,482, 5–15–62, Cl. 121—38.
Rader, Minnie : *See*—
Rader, Sidney and M. 3,032,036.
Rader, Sidney and M. Applicator for treating hemorrhoids. 3,032,036, 5–1–62, Cl. 128—263.
Rader, William E., to Shell Oil Co. Slimicide. 3,017,319, 1–16–62, Cl. 162—161.
Rader, William E., and M. Legator, to Shell Oil Co. Preservation of foods. 3,044,884, 7–17–62, Cl. 99—150.
Radford, Harold, to Harold Radford (Coachbuilders) Ltd. Vehicle lamp. 3,032,649, 5–1–62, Cl. 240—41.1.
Radford, Harold, (Coachbuilders) Ltd. : *See*—
Radford, Harold. 3,032,649.
Radford, John A. : *See*—
Griffiths, Rupert, and Radford. 3,057,063.
Radiant Ceilings, Inc. : *See*—
Walker, William N. 3,048,375.
Radiant Mfg. Corp. : *See*—
Nicholas, William. 3,036,628.
Nicholas, William. 3,036,629.
Radiant Fen Corp. : *See*—
Hechtle, Emil. 3,064,624.
Radiation Applications, Inc. : *See*—
Gaden, Elmer L., Jr., and Schnepf. 3,054,746.
Gaden, Elmer L., Jr., and Schnepf. 3,054,747.
Radiation Counter Laboratories, Inc. : *See*—
Wiechering, Friedrich W. 3,019,363.
Radiation Dynamics, Inc. : *See*—
Cleland, Marshall R. 3,063,000.
Cleland, Marshall R., and Malone. 3,027,486.
Radiation, Inc. : *See*—
Hoefgner, Conrad H., and Williams. 3,038,345.
McMillian, Lonnie S., Jr. 3,060,328.
Searcy, John H., and Scharla-Nielsen. 3,054,942.
Radiation Research Corp. : *See*—
Coleman, John H. 3,058,022.
Coleman, John H. 3,068,510.
Coleman, John H. 3,069,283.
Radigan, Paul J. : *See*—
Hendrickson, Severin B., and Radigan. 3,055,783.
Radimer, Kenneth J., to Minnesota Mining and Mfg. Co. Electrolysis of metal fluorides in the presence of a pseudohalogen. 3,032,488, 5–1–62, Cl. 204—62.
Radio Condenser Co. : *See*—
Birx, Donald L. 3,024,359.
Radio Corp. of America : *See*—
Allman, Carroll M., and Lovell. 3,066,296.
Aitel, Moe L. 3,056,134.
Albee, Arthur C. 3,056,864.
Andrews, Dallas R. 3,027,110.
Andrews, Dallas R., and Maris. 3,027,109.
Aurand, James A., and Lappin. 3,026,504.
Avins, Jack. 3,068,475.
Baird, Bruce C., Sr. 3,056,049.
Baltzer, Philip K. 3,034,987.
Baltzer, Philip K. 3,055,833.
Beam, Walter R., and Sterzer. 3,051,844.
Beaulieu, Donat E., and Cimerman. 3,054,072.
Beers, George L. 3,032,611.
Beers, Joseph L. 3,043,446.
Bensky, Lowell S., and Nettleton. 3,016,194.
Bensky, Lowell S., Nettleton, and Beard. 3,054,958.
Bensky, Lowell S., and Sublette. 3,023,964.
Benway, Robert E. 3,027,479.
Bick, John D., and Gray. 3,050,594.
Bieganski, Wladyslaw J. 3,051,896.
Bieganski, Wladyslaw J., and Witchey. 3,034,356.
Bigler, Robert R. 3,068,338.
Birmingham, Donald J., Montijo, and Reid. 3,056,950.
Bliss, Warren H. 3,040,704.
Bloom, Stanley, and Chang. 3,018,443.
Booth, Grant W. 3,017,099.
Bosenberg, Wolfram A. 3,046,176.
Bouzemburg, Athans. 3,037,090.
Brann, Theron G. 3,056,674.
Briggs, George R. 3,046,529.
Brozdowicz, Zygmunt. 3,059,305.
Caron, Eugene J., and Carter. 3,063,033.
Cavanaugh, Daniel J. 3,031,316.
Chang, Kern K. N. 3,020,440.
Chase, John A. 3,037,583.
Chase, John A. 3,067,495.
Cimerman, Isaac, Saeger, and Mina. 3,037,151.
Covely, Frank D., 3rd. 3,050 722.
Covely, Frank D., 3rd, and Parker. 3,068,465.
Crane, Hewitt D. 3,042,923.
Davidson, James J. 3,029,317.
Davidson, James J. 3,068,327.
De Vore, Henry B. 3,046,441.
Di Sabatino, Roland. 3,046,022.
Eaton, Robert F. 3,017,504.
Ecker, Mario E., and Hoehn. 3,016,211.
Ecker, Mario E., and Liggett. 3,016,210.
Eichenbaum, Arle L. Re. 25,222.
Eichenbaum, Arle L. 3,020,439.
Englund, John W. 3,029,340.
Epstein, David W., Schwartz, and Edelman. 3,045,141.
Etter, Robert W. 3,029,360.
Fine, Roy S., and Perry. 3,026,373.

Radio Corp. of America: *See*—Continued
Fine, Roy S., and Perry. 3,026,378.
Fitzpatrick, John B. 3,059,669.
Fortin, Eugene G. 3,039,962.
Freedman, Larry A., and Preisig. 3,059,056.
Freedman, Larry A., and Preisig. 3,061,683.
Gallup, John L. 3,027,482.
Galopin, Anthony, and Medoff. 3,069,663.
Garvey, Lawrence P. 3,037,874.
Glazer, Burton G., and Nossen. 3,068,405.
Gold, Robert D., and Steele. 3,029,353.
Gray, Sidney. 3,026,501.
Greig, Harold G. 3,052,539.
Greig, Harold G. 3,052,540.
Greig, Harold G. 3,053,688.
Greig, Harold G. 3,060,020.
Greig, Harold G. 3,060,021.
Grundmann, Gustave L. 3,028,830.
Grundmann, Gustave L., and Albright. 3,028,831.
Guty, Bernard J. 3,053,215.
Haba, Vincent. 3,017,693.
Hackley, Reginald A., and Harvey. 3,022,195.
Hamson, Roger E. 3,032,615.
Hansen, Robert B. 3,023,271.
Haynes, Harold D. 3,049,422.
Helwig, William J. 3,057,130.
Herbst, Philip J. 3,037,190.
Hernqvist, Karl G. 3,021,472.
Hernqvist, Karl G. 3,029,361.
Herscher, Marvin B. 3,058,339.
Herzog, Gerald B. 3,023,319.
Herzog, Gerald B. 3,048,789.
Hittle Carl E. 3,048,754.
Hockings, Eric F. 3,061,657.
Hockings, Eric F., and Mularz. 3,037,065.
Holmes, David D. 3,018,369.
Houghton, William D. 3,019,291.
Hurford, Winslow L. 3,064,075.
Jenkins, Robert H. 3,048,717.
Johnson, Edgar J. 3,038,073.
Johnson, Edward O. 3,027,533.
Johnson, Edward O. 3,025,416.
Johnson, Sigurd W., and Lauriello. 3,060,019.
Johnson, Sigurd W., and Lauriello. 3,060,051.
Katz, Abraham, and Rauchwerk. 3,047,843.
Katz, George, and Black. 3,060,062.
Kaufman, Melvin M. 3,050,637.
Kazan, Benjamin. 3,033,989.
Kazan, Benjamin. 3,043,961.
Kell, Ray D. 3,060,422.
Kell, Ray D. 3,064,134.
Knauf, Harry V., Jr., and Rose. 3,068,825.
Knight, Mark B., and Thompson. 3,041,495.
Koch, William J. 3,020,619.
Kolodin, Louis. 3,047,737.
Kosonocky, Walter F. 3,027,464.
Kosonocky, Walter F. 3,042,905.
Krugman, Leonard M. 3,059,185.
Kurshan, Jerome. 3,023,153.
Law, Harold B. 3,064,154.
Lazzery, Angelo G. 3,028,832.
Lazzery, Angelo G. 3,041,418.
Lee, Francis F. 3,016,422.
Leigh, Robert L. 3,067,082.
Lessoff, Howard. 3,042,617.
Lessoff, Howard, Laird, and Childress. 3,043,777.
Le Vezu, Charles G. 3,036,272.
Lewin, Morton H. 3,019,981.
Leyton, Eric M., and Olive. 3,018,324.
Li, Kam. 3,062,970.
Lindenblad, Nils E. 3,040,113.
Linder, Ernest G. 3,048,797.
Lindsay, James E. 3,041,544.
Lindsay, James E., and Martin. 3,018,391.
Lo, Arthur W. 3,056,115.
Loebner, Egon E. 3,050,633.
Lough, Merlin E., and Curry. 3,041,494.
Lozier, Gerald S. 3,060,255.
Macovski, Albert. 3,070,654.
Magnusson, Knut J. 3,032,009.
Marcus, Sanford M., and Wallmark. 3,070,711.
Mark, John T., and Gantz. 3,043,323.
Martin, Irving E. 3,024,300.
Mathwich, Howard R. 3,045,185.
McGrogan, Ellwood P., Jr. 3,056,048.
Mead, Thomas H. 3,034,712.
Merrill, John B., and Macovski. 3,054,067.
Meth, Irving M. 3,030,585.
Miller, Arthur. 3,047,805.
Miller, James C. 3,017,613.
Mitchell, Thompson, Harris, and Zekaria. 3,017,461.
Murr, John, Jr., and Hook. 3,064,133.
Nahay, Lawrence P. 3,064,142.
Nelson, Herbert. 3,054,034.
Nelson, Herbert, and Bernath. 3,022,568.
Nelson, Morris D. 3,029,400.
Nelson, Morris D. 3,048,740.
Nettleton, David L. 3,018,042.
Newhouse, Vernon L. 3,032,749.
Newhouse, Vernon L., and McMillan. 3,049,695.
Nicoll, Frederich H. 3,068,360.
Nicoll, Frederick H. 3,042,834.
Norton, Lowell E. 3,038,124.

Radio Corp. of America: *See*—Continued
Nowlan, Michael J. 3,020,357.
Nowlan, Michael J. 3,037,093.
Nowlan, Michael J. 3,068,326.
Oates, William L. 3,039,185.
Ochs, Stefan A. 3,067,348.
Onyshkevych, Lubomyr S., and Kosonocky. 3,056,039.
Page, John F., and Fernandez Rivas. 3,059,221.
Pan, Wen Y. 3,029,339.
Pankove, Jacques I. 3,047,744.
Pankove, Jacques I. 3,065,392.
Pappano, Harry A., and Whitley. 3,052,865.
Parker, Donald J. 3,035,179.
Paschke, Fritz E. 3,054,018.
Pensak, Louis. 3,070,520.
Pessel, Leopold. 3,031,516.
Peter, Rolf W. 3,068,414.
Peterson, Charles E. 3,028,557.
Pfleger, Frederick W., and Noel. 3,051,955.
Pike, Winthrop S. 3,030,611.
Poitras, Donald J. 3,060,368.
Powers, Kerns H. 3,050,700.
Powers, Kerns H. 3,054,073.
Preisig, Joseph O. 3,030,444.
Preisig, Joseph O. 3,059,189.
Putzrath, Franz L. 3,033,995.
Rajchman, Jan A. 3,017,614.
Rajchman, Jan A. 3,019,418.
Rajchman, Jan A. 3,021,387.
Rajchman, Jan A. 3,023,505.
Rajchman, Jan A., and Briggs. 3,041,490.
Redfield, George E. 3,027,111.
Rhodes, Roland N. 3,020,338.
Rhodes, Roland N., and Avins. 3,046,335.
Roe, John H. 3,046,334.
Rogers, Gordon F. 3,064,206.
Rose, Arnold S., and Bertram. 3,054,174.
Rosi, Fred D. 3,050,574.
Rosi, Fred D., and Bernoff. 3,037,064.
Rosi, Fred D., and Hanak. 3,028,341.
Rosi, Fred D., and Weisberg. 3,019,092.
Roth, Robert. 3,064,331.
Rotow, Alexander A. 3,047,757.
Rumble, William G. 3,025,411.
Ruppel, Wolfgang. 3,018,426.
Sacco, Joseph J., Jr. 3,031,406.
Sacco, Joseph J., Jr., and Fortin. 3,061,546.
Saubier, Theodore A., Jr. 3,067,055.
Schade, Otto H., Sr. 3,030,440.
Schade, Otto H., Sr. 3,048,654.
Schade, Otto H., Sr. 3,051,864.
Schade, Otto H., Sr. 3,063,012.
Schaefer, Louis F., and Macovski. 3,037,071.
Schesch, Carl G. 3,023,555.
Schmitt, Edward J., and Smith. 3,023,963.
Schroeder, Alfred C. 3,030,436.
Schroeder, Alfred C. 3,054,852.
Schwartz, James W. 3,032,674.
Schwartz, James W. 3,070,441.
Schwarz, Helmut J. 3,050,981.
Shafer, Richard E. 3,020,450.
Sharin, Samuel, Sheridan, Liguori, and Kishi. 3,055,978.
Sinn, Robert S. 3,057,604.
Sloan, Kenneth R., and Baer. 3,025,944.
Smith, Lloyd B., and Childress. 3,017,615.
Spielberg, Arnold M., and Page. 3,024,445.
Steele, Martin C. 3,042,852.
Steele, Martin C. 3,042,853.
Steele, Martin C., and Eichenbaum. 3,064,210.
Sterzer, Fred. 3,038,086.
Sterzer, Fred. 3,069,632.
Stocker, Arthur C. 3,033,923.
Stoeckert, Alvin J., and Carrona. 3,062,981.
Stoller, Arthur L., and Gordon. 3,047,429.
Taylor, Paul K. 3,026,413.
Teutsch, Marvin W. 3,052,773.
Theriault, Gerald E. 3,061,786.
Theriault, Gerald E. 3,061,790.
Thomas, Lucius P., Jr., Hoyt, and Iden. 3,040,298.
Thompson, Leland E. 3,042,867.
Tomes, Sidney R. 3,061,815.
Tourtellot, John A. 3,058,749.
Tourtellot, John A. 3,059,065.
Trax, Alan M. 3,063,777.
Trevor, Bertram A. 3,046,496.
Turnbull, John C. 3,041,127.
Uritis, Joseph M. 3,030,452.
Uritis, Joseph M. 3,032,284.
Vance, Arthur W. 3,018,046.
Wallmark, John T. 3,028,500.
Wallmark, John T., and Johnson. 3,038,085.
Warne, Thomas P., Jr. 3,026,438.
Warren, Henry R. 3,037,089.
Warren, Henry R. 3,046,359.
Weimer, Paul K. 3,026,416.
Whitely, Richard L. 3,026,420.
Wielicki, Henry. 3,041,168.
Wielicki, Henry. 3,041,169.
Wilcox, Roy C. 3,048,665.
Williams, Harry D. 3,034,477.
Wolkstein, Herbert J., and Bridge. 3,020,444.
Woods, William E. 3,037,203.
Zworykin, Vladimir K., and Hatke. 3,052,232.
Zworykin, Vladimir K., and Sziklai. 3,038,154.

Radio Engineering Laboratories, Inc.: *See*— Brack, Werner. 3,017,579.
Radio Frequency Laboratories, Inc.: *See*— Higgins, Charles A., and King. 3,037,078. Janicke, Jack M. 3,070,731.
Radio Heaters Ltd.: *See*— Tibbs, Christopher E. M. 3,050,606.
Radio Industries, Inc.: *See*— Sher, Ben C., and Fruth. 3,031,344.
Radix, Jean C. C.: *See*— Le Blan, Louis V. S., and Radix. 3,056,301.
Radke, Arthur O.: *See*— Simons, Allison K., Radke, and Tengler. 3,061,260.
Radke, Arthur O., and H. N. Tengler, to Bostrom Corp. Seat for highway trucks. 3,059,890, 10–23–62, Cl. 248—399.
Radke, Robert R.: *See*— Green, Homer H., Radke, and Steingas. 3,043,376.
Radke, William A.: *See*— Dreyfoos, Alex W., Jr., Mazza, Radke, and Staley. 3,055,006.
Radley, Jack A., J. S. Stanley, and N. L. Smith, to Mayborn Products Ltd. Dyeing compositions. 3,056,644, 10–2–62, Cl. 8—93.
Radlove, Sol B. Liquid shortenings and method of improving baked goods. 3,029,147, 4–10–62, Cl. 99—118.
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Radlove, Sol B. Method of making diglycerides. 3,051,734, 8–28–62, Cl. 260—410.8.
Radmacher, Donald S.: *See*— Leknovich, Henry, and Radmacher. 3,036,181.
Rad-O-Lite, Inc.: *See*— Lesher, John C. 3,020,522. Lesher, John C. 3,051,934.
Radouco-Thomas, Simone M. Compositions and methods for improving meat. 3,042,529, 7–3–62, Cl. 99—107.
Radow, Norman: *See*— Hume, Harold F., and Radow. 3,039,171.
Radow, Norman, and W. E. Roseveare, to E. I. du Pont de Nemours and Co. Elongated composite structure. 3,039,-174, 6–19–62, Cl. 28—82.
Radson Engineering Corp.: *See*— Fathauer, David F. 3,051,894.
Radtke, Edward W., to United Aircraft Corp. Turbine nozzle vane construction. 3,033,519, 5–8–62, Cl. 253—52.
Radunz, O. A.-G.: *See*— Lauchenauer, Alfred, and Schwemmer. 3,044,891.
Raduns, Solomon B. Aluminum chair construction. 3,035,-866, 5–22–62, Cl. 297—454.
Raduns, Solomon B. Aluminum tubular furniture and methods of making the backs and seats thereof. 3,046,005, 7–24–62, Cl. 267—110.
Radvanyi, Imre. Shoe scraper. 3,038,190, 6–12–62, Cl. 15—215.
Radzinsky, Harry: *See*— Crockford, Joseph R. 3,058,469.
Radziwon, Norman J., to Bausch & Lomb Inc. Spectacle mounting. 3,030,858, 4–24–62, Cl. 88—41.
Radziwon, Norman J., to Bausch & Lomb Inc. Spectacle frame. 3,034,401, 5–15–62, Cl. 88—41.
Rae, James A.: *See*— Miller, Alfred L., Rae, and Hubbard. 3,054,690.
Rae, Randolph S.: *See*— Pietrangeli, Gene J., and Rae. 3,023,571.
Rae, Randolph S., to United States of America, Navy. Scoop diffuser for use on ram jets for securing isentropic compression of a supersonic stream. 3,027,711, 4–3–62, Cl. 60—35.6.
Rae, Randolph S., to United States of America, Navy. Means for varying the thrust of a ram-jet. 3,027,712, 4–3–62, Cl. 60—35.6.
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Rae, Randolph S., to The Garrett Corp. Jet propulsion unit with cooling means for incoming air. 3,040,519, 6–26–62, Cl. 60—35.6.
Rae, Randolph S., to The Garrett Corp. Jet power unit for an aircraft. 3,040,520, 6–26–62, Cl. 60—35.6.
Rae, Randolph S., to United States of America, Navy. Guided missile. 3,045,596, 7–24–62, Cl. 102—50.
Rae, Robin W.: *See*— Habeshaw, John, and Rae. 3,042,660.
Rae, Walter S.: *See*— Strother, Joseph G., and Rae. 3,028,257.
Raeburn, Abner A., to N. S. Meyer, Inc. Sash construction. 3,020,558, 2–13–62, Cl. 2—300.
Raecke, Bernhard: *See*— Blaser, Bruno, Raecke, and Schirp. 3,043,846.
Raecke, Bernhard, to Henkel & Cie. G.m.b.H. Polymerization of olefins with an aluminum carbide-titanium tetrahalide catalyst. 3,055,880, 9–25–62, Cl. 260—94.9.
Raehs, Wilhelm, and H. Rauchmann, to Lingner-Werke G.m.b.H. Atomizer. 3,036,781, 5–29–62, Cl. 239—361.
Raetz, Paul, to Kohlenscheidungs-Gesellschaft, m.b.H. Beater wheel mill. 3,030,037, 4–17–62, Cl. 241—186.
Raeuchle, Randal R. Surgical retractor. 3,038,468, 6–12–62, Cl. 128—20.
Raezer, Spencer D. Method for the measurement of extreme temperatures and means therefor. 3,045,487, 7–24–62, Cl. 73—339.
Raff, Allan M., to Smith, Kline & French Laboratories. Coloring discrete solids and compositions therefor. 3,054,724, 9–18–62, Cl. 167—82.
Raff, Samuel J.: *See*— Grantham, Rodney E., Raff, Hoffman, Pulliam, and Yaffee. 3,034,115.
Sorger, Gunther U., and Raff. 3,047,803.
Raffaelli, Albert F., to Kaiser Gypsum Co., Inc. Paper wallboard tape. 3,066,450, 12–4–62, Cl. 50—194.
Raffaelli, Joseph G., to General Controls Co. Safety control systems for machines. 3,040,399, 6–26–62, Cl. 22—68.
Raffensperger, Stanley P., and T. T. Takashima, to General Foods Corp. Fumaric acid composition. 3,016,299, 1–9–62, Cl. 99—78.
Raffensperger, Stanley P., and T. T. Takashima, to General Foods Corp. Adipic acid composition. 3,016,300, 1–9–62, Cl. 99—78.
Rafferty, John W.: *See*— Clancy, John J., Rafferty, and Wells. 3,019,201.
Rafferty, Martin A., and T. F. Leahey, to Esso Research and Engineering Co. Self-refluxing fractionation tray. 3,070,-360, 12–25–62, Cl. 261—113.
Raffinage, Compagnie Francaise de: *See*— Weisang, Edouard, and Valet. 3,038,855.
Ragains, Glenn C. Pie and casserole lifter. 3,023,043, 2–27–62, Cl. 294—31.
Ragen Precision Industries, Inc.: *See*— Lopata, Ira L. 3,040,935.
Ragettli, Christian: *See*— Van Leer, Oscar J., and Ragettli. 3,051,112.
Ragettli, Christian, to Grotnes Machine Works, Inc. Drum closing tool. 3,015,291, 1–2–62, Cl. 113—18.
Ragland, Ben.: *See*— Langlois, Henry J., Nelden, and Ragland. 3,023,581.
Ragland, William F., and J. C. Palmer. Packing cartridge for stuffing boxes. 3,055,668, 9–25–62, Cl. 277—119.
Rago, Rocco M., to A. F. Wintercorn. Toy hand grenade. 3,015,522, 2–6–62, Cl. 46—200.
Ragon, Rene P.: *See*— Lallemand, Roger H., and Ragon. 3,057,134.
Ragosch, Ernst, and H. Gerke, to North American Philips Co., Inc. Circuit arrangement for automatically charging a storage cell. 3,041,521, 6–26–62, Cl. 320—28.
Ragoss, Alfred, E. Fitzer, E. Nedopil, and A. Buhmann, to Siemens-Planiawerke A.G. fur Kohlefabrikate. Production of graphitizable pitch coke and graphite products. 3,035,-308, 5–22–62, Cl. 18—54.7.
Ragsdale, Charles M.: *See*— Callahan, William R., and Ragsdale. 3,048,244.
Rahaim, Edward J.: *See*— Baker, Kenneth R., and Rahaim. 3,018,132.
Rahilly, Paul M.: *See*— Broders, Claude O., and Rahilly. 3,041,828.
Rahiser, Robert H.: *See*— Branson, Andrews C., Jr., Frank, and Rahiser. 3,018,455.
Rahlfs, Erich, and G. Henrich, to Farbenfabriken Bayer Aktiengesellschaft. Method of preparing hydrazine hydrate from dihydrazine sulfate. 3,015,542, 1–2–62, Cl. 23—190.
Rahlfs, Erich, and G. Henrich, to Farbenfabriken Bayer Aktiengesellschaft. Process for removing acetone from aqueous hydrazine solutions containing acetone. 3,028,219, 4–3–62, Cl. 23—190.
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Rahlson, Erich. Method of making a machine frame element. 3,043,324, 7–24–62, Cl. 29—150.
Rahm, Howard E.: *See*— Kelley, Gilbert A., Rahm, and Oates. 3,067,468.
Rahman, Habibur: *See*— Bunting, Ernest V., and Rahman. 3,022,092.
Rahn, Hans-Jürgen: *See*— Harbort, Ludwig, and Rahn. 3,047,632.
Rai, Lallan: *See*— Roan, Clifford C., and Rai. 3,022,217.
Raibaud, Jean P., to La Precision Mecanique. Piston pumps, in particular for feeding fuel to internal combustion engines. 3,027,843, 4–3–62, Cl. 103—41.
Raibourn, Paul. Low frequency video signal attenuation in color receiver. 3,017,453, 1–16–62, Cl. 178—5.4.
Raibourn, Paul. Color television. 3,035,116, 5–15–62, Cl. 178—5.4.
Raidel, John E. Semiautomatic safety hitch. 3,018,118, 1–23–62, Cl. 280—506.
Raidel, John E. Cable slack adjuster. 3,022,981, 2–27–62, Cl. 254—164.
Raidel, John E. Automatic trailer support assembly with swingable lower section. 3,028,176, 4–3–62, Cl. 280—150.5.
Raidel, John E. Trailer coupler. 3,034,804, 5–15–62, Cl. 280—434.
Raidel, John E. Vehicle wheel axle mounting unit. 3,043,-606, 7–10–62, Cl. 280—104.5.
Raidel, John E. Interlocking support for sheet-like elements. 3,066,773, 12–4–62, Cl. 189—36.

Raider, Irving S. Casting device for fishing rods. 3,026,644, 3–27–62, Cl. 43—19.

Raidl, Frank. Turreted headstock for transmission test stands. 3,016,740, 1–16–62, Cl. 73—118.

Raila, Edward S.: *See*—
Mallunik, Alan R., Neaderland, Osborn, and Raila. 3,053,930.
Matthysse, Irving F., and Raila. 3,065,449.

Railroad Accessories Corp.: *See*—
Bettison, David C. 3,051,262.
Scott, Harry A., and Dugan. 3,058,764.

Railsback, Henry E., and N. A. Stumpe, Jr., to Phillips Petroleum Co. Blends of cis-polybutadiene with either natural rubber or cis-polyisoprene, method of preparing same, and tire tread comprising same. 3,060,989, 10–30–62, Cl. 152—330.

Railway Automation Maintenance Specialties Co.: *See*—
Clayborne, Norman F. 3,032,363.

Railway Maintenance Corp.: *See*—
Franklin, Richard E., and Fox. 3,048,289.
McWilliams, James B. 3,015,370.

Railway Service and Supply Corp.: *See*—
Booth, Thomas R. 3,055,715.
Pearce, Edwin S. 3,042,466.
Pearce, Edwin S., Taylor, and Booth. 3,048,414.

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Rain Bird Sprinkler Mfg. Corp.: *See*—
Sharp, Carl R., and Streeter. 3,022,012.

Rain Jet Corp.: *See*—
Hruby, John O., Jr. 3,019,991.
Hruby, John O., Jr. 3,030,028.
Hruby, John O., Jr. 3,034,728.
Hruby, John O., Jr. 3,067,876.

Rain Products, Inc.: *See*—
Altsheler, Leonard. 3,038,483.

Rainard, Leo W., and E. H. Shattuck, to Joseph Bancroft & Sons Co. Crimping apparatus. 3,058,167, 10–16–62, Cl. 19—66.

Rainer, William C., N. B. Bump, and F. R. Dudzik, to Chemical Products Corp. Plastisol compositions and method of making them. 3,062,758, 11–6–62, Cl. 260—2.5.

Rainey, Horace S. Fishing device. 3,026,647, 3–27–62, Cl. 43—44.4.

Rainey, Robert H., and J. G. Moore, to United States of America, Atomic Energy Commission. Solvent extraction process for the separation of uranium and thorium from protactinium and fission products. 3,049,400, 8–14–62, Cl. 23—14.5.

Rains, John H.: *See*—
Hirsekorn, Fred S., and Rains. 3,029,297.
Hirsekorn, Fred S., and Rains. 3,029,298.

Rains, Sidney A.: *See*—
Christenson, Howard W., Fisher, Schaefer, Clark, and Rains. 3,053,116.

Rainville, Paul, and P. Langdon. Potato digger and picker combine. 3,054,585, 5–15–62, Cl. 171—28.

Raistrick, John E. Rat guard for mooring lines. 3,016,034, 1–9–62, Cl. 114—221.

Raistrick, Bernard, and J. S. Raitt, to Scottish Agricultural Industries Ltd. Granular fertilisers. 3,049,419, 8–14–62, Cl. 71—64.

Raiti, James. Automatic snow melting truck. 3,066,428, 12–4–62, Cl. 37—12.

Raitt, John S.: *See*—
Raistrick, Bernard, and Raitt. 3,049,419.

Rajchman, Jan A., to Radio Corp. of America. Magnetic storage device. 3,017,614, 1–16–62, Cl. 340—174.

Rajchman, Jan A., to Radio Corp. of America. Magnetic memory systems using transfluxors. 3,019,418, 1–30–62, Cl. 340—174.

Rajchman, Jan A., to Radio Corp. of America. Electrical display device. 3,021,387, 2–13–62, Cl. 178—7.3.

Rajchman, Jan A., to Radio Corp. of America. Non-coincident magnetic switch. 3,028,505, 4–3–62, Cl. 307—88.

Rajchman, Jan A., and G. R. Briggs, to Radio Corp. of America. Electroluminescent apparatus. 3,041,490, 6–26–62, Cl. 313—108.

Rajhel, Frantisek: *See*—
Dubsky, Borivoj, Straka, and Rajhel. 3,023,614.

Rajki, Stephen, to Stephen-Rajki, Inc. Edging for multi-layered fabric and method of making the same. 3,038,167, 6–12–62, Cl. 2—274.

Rakhorst, Albertus. Ring spinning machine for spinning a sliver directly into yarn. 3,016,679, 1–16–62, Cl. 57—36.

Rakisits, Michael. Bulldozer moldboard corner bit. 3,029,534, 4–17–62, Cl. 37—141.

Rakosky, Isadore: *See*—
Ross, Alan, Eisenmeyer, and Rakofsky. 3,019,389.

Rakowicz, Jan A.: *See*—
Molins, Desmond W., Rolands, and Rakowicz. 3,062,588.

Rakowitz, David H., to American Cyanamid Co. Soil stabilization with a composition containing an acrylamide, a bisacrylamide, and aluminum and acrylate ions. 3,021,298, 2–13–62, Cl. 260—41.

Rakowitz, David H., to American Cyanamid Co. Soil having incorporated therein an aqueous gel of bisacrylamide polymer and water soluble metal salt. 3,056,757, 10–2–62, Cl. 260—29.6.

Rakowski, Alexander J.: *See*—
Rollins, James E., Rakowski, and Zenobia. 3,024,435.

Rakowski, Alexander J., J. E. Rollins, and J. C. Zenobia, Jr., to Specialties Development Corp. Semi-conductive element. 3,016,506, 1–9–62, Cl. 338—22.

Rakus, Jozef M. Attachment means for shoe heels. 3,041,746, 7–3–62, Cl. 36—36.

Ralco Mfg. Co.: *See*—
Remke, John L., Reed, and Deam. 3,046,512.

Raleigh, Edmond J., to United States of America, Army. Means for retaining magazine-fed firearm cartridges in bolt pickup position. 3,054,206, 9–18–62, Cl. 42—18.

Raleigh, Walter J., to McCulloch Corp. Ignition breaker mounting. 3,062,930, 11–6–62, Cl. 200—31.

Raley, Charles F., Jr., to The Dow Chemical Co. Light stabilization of self-extinguishing alkenyl aromatic resins. 3,061,584, 10–30–62, Cl. 260—45.8.

Raley, John H.: *See*—
Hodgson, Russell L., and Raley. 3,052,735.

Rall, Dieter L.: *See*—
Wickersham, Price D., Rall, and Gledt. 3,028,494.

Rall, John E.: *See*—
Pearson, John L., and Pall. 3,065,798.

Rallis, Constantine N.: *See*—
Gilbert, Jeffrey F., and Rallis. 3,039,865.

Rallis, Theodore, and F. Trotta. Injector type toothbrush for receiving toothpaste from aerosol bomb. 3,022,789, 2–27–62, Cl. 132—94.

Ralls, John W.: *See*—
Iles, Van I. 3,064,755.

Ralph, Eugene L.: *See*—
Matlow, Sheldon L., and Ralph. 3,040,416.

Ralph, Eugene L., to Hoffman Electronics Corp. Flexible solar energy converter panel. 3,025,335, 3–13–62, Cl. 136—89.

Ralph, Eugene L., to Hoffman Electronics Corp. Method of making a solar cell panel. 3,038,952, 6–12–62, Cl. 136—89.

Ralph, Harold C. A., and S. W. H. Wood. Toothed gear driving mechanism for steering wheels. 3,035,793, 5–22–62, Cl. 244—50.

Ralston, Edgar K., and H. C. McGill, to Westinghouse Electric Corp. Tube socket. 3,048,809, 8–7–62, Cl. 339—65.

Ralston, Harold A., to J. I. Case Co. Agricultural implement with three-point hitch and guide link. 3,057,414, 10–9–62, Cl. 172—444.

Ralston, Harold A., and P. D. Wenzel, to J. I. Case Co. Agricultural implements. 3,049,856, 8–21–62, Cl. 56—377.

Ralston, Lawrence P. Game. 3,064,979, 11–20–62, Cl. 273—135.

Ralston, Thomas E.: *See*—
Platt, Richard O., and Ralston. 3,057,519.

Ram Domestic Products Co.: *See*—
Miller, Charles, and Romanelli. 3,062,276.

Ramachandran, Sundaresan: *See*—
McCarter, Donald C., Ramachandran, and Heid. 3,047,917.

Ramage, Robert V., to United States of America, Atomic Energy Commission. High pressure gas regulator. 3,033,229. 5–8–62, Cl. 137—494.

Ramaika, Lawrence T., to American Viscose Corp. Surface treatment of films. 3,067,119, 12–4–62, Cl. 204—168.

Rambaldi, Carlo. Winch mechanism. 3,031,168, 4–24–62, Cl. 254—164.

Rambaud, Georges: *See*—
Daumy, Georges, Rambaud, and Arnoux. 3,049,335.

Rambeau, Ross: *See*—
Ingersoll, Ward H., and Rambeau. 3,053,090.

Rambo, Chester G. Edger and lawn trimmer. 3,018,599, 1–30–62, Cl. 56—26.

Rambo, Marvin L.: *See*—
Friedman, Louis D., Rambo, and Estes. 3,025,231.

Rambo, William H., and T. A. Brandon. Automatic unit feeding and spacing mechanism. 3,031,061, 4–24–62, Cl. 198—34.

Ramco Equipment Corp.: *See*—
Randall, Max. 3,054,411.

Ramella, Amilcare, to Socony Mobil Oil Co., Inc. Reforming naphthas containing deleterious amounts of nitrogen or arsenic. 3,069,350, 12–18–62, Cl. 208—89.

Ramey, Bern C. Packaged article display device. 3,023,908, 3–6–62, Cl. 211—74.

Ramey, Henry J., Jr.: *See*—
Koch, Robert L., Ramey, and Jenkins. 3,036,632.

Ramey, Henry J., Jr., to Socony Mobil Oil Co., Inc. Subterranean recovery process by combustion. 3,044,543, 7–17–62, Cl. 166—4.

Ramey, James: *See*—
Prinz, Roy, Gann, and Ramey. 3,039,940.

Ramge, Joseph L. Work moving machine. 3,066,456, 12–4–62, Cl. 51—219.

Ramien, Wolfgang F., to Prameta Prazisionsmetall- und Kunststofferzeugnisse G. Baumann & Co. Hinge for windows, doors, gates and the like. 3,031,713, 5–1–62, Cl. 16—159.

Ramirez, Rafael N. Windshield wiper mechanism. 3,025,555, 3–20–62, Cl. 15—250.24.

Ramirez, Raymond R. Pre-formed surgical cast and method. 3,032,033, 5–1–62, Cl. 128—90.

Ramm, Joseph L., to Johns-Manville Corp. Automatic article reversing mechanism. 3,047,288, 7–31–62, Cl. 270—58.

Rammel, Gerald E.: *See*—
Marzocchi, Alfred, and Rammel. 3,033,719.
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Ramon, Gino. Kneeling devices. 3,025,526, 3–20–62, Cl. 2—24.
Ramon, Gino. Combination stilt and float. 3,046,678, 7–31–62, Cl. 36—7.6.
Ramp, Herbert O., and H. Schmidl, to United States of America, Army. FM generator calibration system. 3,041,534, 6–26–62, Cl. 324—79.
Rampley, Kenneth, to Colt Ventilation Ltd. Upward discharge ventilators. 3,053,165, 9–11–62, Cl. 98—43.
Ramrath, Joseph M., to Allis-Chalmers Mfg. Co. Fluid blast interrupting device for oil circuit breakers. 3,067,307, 12–4–62, Cl. 200—150.
Ramsauer, Marianne: *See*—
Thum, Rudolf, Kilian, and Ramsauer. 3,037,325.
Ramsauer, Rembert: *See*—
Thum, Rudolf, Kilian, and Ramsauer. 3,037,325.
Ramsay, Dorothy A., to S. Smith & Sons (England) Ltd. Method and apparatus for obtaining average samples of liquid in tanks. 3,028,759, 4–10–62, Cl. 73—425.4.
Ramsay, George S. Upholstery construction. 3,031,690, 5–1–62, Cl. 5—353.
Ramsay, Jack V.: *See*—
Bonnell, Robert P., Ramsay, and Dixon. 3,068,752.
Ramsayer, Karl H. Computing device for considering the variable map scale when indicating the position of vehicles on a map. 3,049,290, 8–14–62, Cl. 235—61.
Ramsden, Charles D., to Pacific Coast Engineering Co. Gantry type crane assembly. 3,051,321, 8–28–62, Cl. 212—14.
Ramsden, Clement. Clamps for tubular structures. 3,025,089, 3–13–62, Cl. 287—54.
Ramsden, Hugh E., to Metal & Thermit Corp. Chemical process and product. 3,041,323, 6–26–62, Cl. 260—92.8.
Ramsden, Hugh E., to Metal & Thermit Corp. Cyclic process for producing diborane. 3,066,013, 11–27–62, Cl. 23—204.
Ramsden, Hugh E., to Metal & Thermit Corp. Boron hydride derivatives. 3,066,170, 11–27–62, Cl. 260—606.5.
Ramsden, Hugh E., to Esso Research and Engineering Co. Preparation of organotin compounds. 3,067,226, 12–4–62, Cl. 260—429.7.
Ramsden, Philip: *See*—
Shirley, Walter, Ramsden, and Nixon. 3,017,745.
Ramsden, William E., to Rockwell Mfg. Co. Tamper proof drain for water meters. 3,060,741, 10–30–62, Cl. 73—273.
Ramseier, Paul, to Bräcker A.G. Packaged travellers for positioning on the guide of a textile machine. 3,055,163, 9–25–62, Cl. 57—1.
Ramsel, Charles A.: *See*—
Chambers, Robert O., Nordling, and Ramsel. 3,021,729.
Chambers, Robert O., and Ramsel. 3,065,810.
Ramsell, Alberta P. Brassiere. 3,033,206, 5–8–62, Cl. 128—484.
Ramser, Louis L. Bracket for hanging rain gutter. 3,053,491, 9–11–62, Cl. 248—48.2.
Ramsey, Chando B., to Ready Hung Door Mfg. Co. of Southern California, Inc. Combination door-hung frame with split sill. 3,032,837, 5–8–62, Cl. 20—16.
Ramsey Corp.: *See*—
Marien, Melvin W. 3,050,354.
Ramsey, James E. Air cleaner for ventilated dynamo-electric machines. 3,041,117, 6–26–62, Cl. 310—56.
Ramsey, Keith E., to Knickerbocker Co. Lift truck mast. 3,064,751, 11–20–62, Cl. 187—9.
Ramsey, Richard V., to Boeing Airplane Co. Flight control system. 3,051,418, 8–28–62, Cl. 244—83.
Ramsey, William H., to C. K. Stillwagon. Valve. 3,051,435, 8–28–62 Cl. 251—306.
Ranadive, Gajanan M.: *See*—
Movsovic, Ivrid J., and Ranadive. 3,030,401.
Ranalli, Franco, to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Method for molding isotactic polypropylene. 3,021,567, 2–20–62, Cl. 18—55.
Ranalli, Franco, to Montecatini Societa Generale per l'Industria Mineraria e chimica. Blends of crystallizable polypropylene having isotactic structure with an amorphous copolymer of ethylene and propylene and method for making same. 3,036,987, 5–29–62, Cl. 260—45.5.
Ranard, Elliot D., and C. E. Kepler, to United Aircraft Corp. Variable supersonic inlet. 3,030,770, 4–24–62, Cl. 60—35.6.
Ranby, Peter W., and D. Y. Hobbs, to Thorn Electrical Industries Ltd. Photoconductive materials. 3,037,941, 6–5–62, Cl. 252—501.
Ranby, Peter W., and D. Y. Hobbs, to Thorn Electrical Industries Ltd. Thorium phosphate matrix luminescent materials. 3,049,497, 8–14–62, Cl. 252—301.4.
Ranby, Peter W., and D. W. Turner, to Thorn Electrical Industries Ltd. Electric lamps embodying reflectors. 3,068,114, 12–11–62, Cl. 117—5.5.
Ranco Inc.: *See*—
Barnett, Don C. 3,056,381.
Barnett, Don C., and Owen. 3,061,701.
Caldwell, Roland B. 3,018,084.
Cooley, Kenneth D., Snider, and Raney. 3,037,296.
Daly, James U. 3,060,756.
Eggert, Lewis J., and Tufts. 3,018,340.
Finlay, Alexander, and Rice. 3,038,050.
Finlay, Alexander, and Rice. 3,062,942.
Greenawalt, Frederick A. 3,032,312.
Greenawalt, Frederick A. 3,056,574.
Liebermann, John. 3,060,591.
Payne, James T. 3,032,621.
Payne, James T. 3,032,626.
Raney, Estel C. 3,039,491.
Syfert, Thomas I. 3,055,188.
Rand, Burton, to Autosonics, Inc. Cleaning apparatus. 3,019,800, 2–6–62, Cl. 134—79.
Rand, Burton, to Autosonics Inc. Dry cleaning machine. 3,049,904, 8–21–62, Cl. 68—18.
Rand Corp., The: *See*—
Calhoun, Wayne A. 3,063,086.
Dhanes, Lester W. 3,041,011.
Rand Development Corp.: *See*—
Nichols, Wallace H. 3,027,134.
Trammell, James R. 3,066,186.
Rand Mines Ltd.: *See*—
Leibowitz, Alec. 3,063,921.
Rand, William M., R. E. Rice, R. G. Shaver, and W. E. Whitney, to Comstock & Wescott Inc. Carbon dioxide analyzer. 3,035,903, 5–22–62, Cl. 23—255.
Randall Co., Division of Textron, Inc., The: *See*—
Hall, Ralph W. 3,030,007.
Randall, David I.: *See*—
Buc, Saul R., Freyermuth, Mayhew, and Randall. 3,062,830.
Buc, Saul R., and Randall. 3,019,266.
Buc, Saul R., and Randall. 3,019,268.
Randall, Dwight L., T. E. Hanley, and O. K. Larison. Humidiometer hydrogen tube analyzer. 3,044,288, 7–17–62, Cl. 73—1.
Randall, Grant M.: *See*—
Kerber, Stanley M., Randall, and Hovda. 3,025,395.
Randall, Harold O.: *See*—
Werner, Frank R., Randall, and Flint. 3,017,078.
Randall, Max, to Ramco Equipment Corp. Parts cleaning machine. 3,054,411, 9–18–62, Cl. 134—111.
Randall, Ralph S. Vacuum bag sealing machine. 3,059,389, 10–23–62, Cl. 53—89.
Randall, Ross D., to Worthington Corp. Control valve for regulating the flow of limited quantities of fluid. 3,069,126, 12–18–62, Cl. 251—14.
Randall, Ross D., and H. D. Baumann, to Worthington Corp. Pilot operated regulator mechanism. 3,020,925, 2–13–62, Cl. 137—489.5.
Randall, Sterling P.: *See*—
Musgrave, John L., and Randall. 3,026,178.
Skeff, Herbert E., Randall, and Jordan. 3,062,224.
Randall, Walter A., and A. J. Rider, to Link Aviation, Inc. Aircraft engine simulation. 3,031,776, 5–1–62, Cl. 35—13.
Randell, Geoffrey E. C., and J. Holme, to Woodall-Duckham Construction Co. Ltd. Apparatus for cleaning the sealing surfaces of door frames of horizontal coke ovens. 3,037,227, 6–5–62, Cl. 15—93.
Randell, Geoffrey E. C., and H. M. Whitworth, to Woodall-Duckham Construction Co. Coke oven ascension pipe decarbonising device. 3,049,738, 8–21–62, Cl. 15—5.
Randell, Geoffrey E. C., H. M. Whitworth, and J. Holme, to Woodall-Duckham Construction Co. Ltd. Cleaning of sealing surfaces of doors and door frames of horizontal coke ovens. 3,056,699, 10–2–62, Cl. 134—5.
Randels, Robert B.: *See*—
Layton, Margaret M., Randels, and Stockdale. 3,020,456.
Randmark, Eric E., to J. Randmark. Portable kerosene heater. 3,020,906, 2–13–62, Cl. 126—59.5.
Randmark, Victor J.: *See*—
Randmark, Eric E. 3,020,906.
Randol, Glenn T. Automotive variable-drive power transmission. 3,028,764, 4–10–62, Cl. 74—375.
Randol, Glenn T. Pressure differential operated brake booster mechanism. 3,040,535, 6–26–62, Cl. 60—54.6.
Randol, Glenn T. Hydraulically-operated brake booster mechanism. 3,046,746, 7–31–62, Cl. 60—54.6.
Randol, Glenn T. Disc-type brake. 3,064,764, 11–20–62, Cl. 188—72.
Randol, Glenn T., 50% to Hamill-Markus Industries, Inc. Power-assisted operating mechanism for hydraulic pressure systems. 3,065,603, 11–27–62, Cl. 60—54.6.
Randol, Glenn T. Master brake cylinder with dual fluid displacement members. 3,065,604, 11–27–62, Cl. 60—54.6.
Randol, Glenn T. Safety razor with guard means releasable for blade washing and changing. 3,067,512, 12–11–62, Cl. 30—62.
Randol, Glenn T. Magnetic safety razor. 3,067,513, 12–11–62, Cl. 30—74.
Randolph, Carl L., and J. G. Bower, to United States Borax & Chemical Corp. Method for preparing borazoles. 3,030,174, 4–17–62, Cl. 23—14.
Randolph, Carl L., Jr.: *See*—
Schultz, Robert D., and Randolph. 3,020,127.
Schultz, Robert D., and Randolph. 3,069,236.
Schultz, Robert D., and Randolph. 3,069,237.
Randolph, Carl L., Jr., and R. E. Meyer, to Aerojet-General Corp. Preparation of dimethyl hydrazine. 3,050,560, 8–21–62, Cl. 260—583.
Randolph, Donald W., to Structural Fibers, Inc. Method of making impregnated glass fiber articles. Re. 25,241, 9–11–62, Cl. 156—194.
Randolph, Harry B.: *See*—
Griffiths, Rupert, and Radford. 3,057,063.
Randolph, Harry B. Members having a metal part secured to a wooden part. 3,019,526, 2–6–62, Cl. 30—341.
Randolph, Harry B. Safety razor having a vibration damping blade mounting member. 3,040,430, 6–26–62, Cl. 30—41.
Randolph, Harry B. Containers for safety razors. 3,045,812, 7–24–62, Cl. 206—16.
Randolph, Josh: *See*—
Lynch, John W. 3,052,306.

Randolph-Rand Corp.: *See*—
Reitzel, Georg. 3,024,899.
Tschatsch, Wilhelm. 3,053,382.
Randolph, Robert F.: *See*—
McGrath, William L., and Randolph. 3,054,271.
Randolph, Russell H.: *See*—
Schray, Walter H., and Randolph. 3,037,658.
Randrup, Benjamin G. Foldable boat. 3,032,784, 5–8–62, Cl. 9—2.
Raney, Estel C.: *See*—
Cooley, Kenneth D., Snider, and Raney. 3,037,296.
Raney, Estel C., to Ranco Inc. Valve mechanism for fluid systems. 3,039,491, 6–19–62, Cl. 137—625.5.
Raney Products Inc.: *See*—
Raney, William E. 3,018,086.
Raney, Richard C. Transporting and unloading devices. 3,047,173, 7–31–62, Cl. 214—519.
Raney, Robert M.: *See*—
Oestermeyer, Carl F., Raney, Koenig, and Havlick. 3,036,140.
Raney, Russell R., J. H. Bing, and H. W. Colwill, to Avco Corp. Flail beater unit for a spreader and scattering device. 3,025,067, 3–13–62, Cl. 275—6.
Raney, Russell R., and V. C. Fuhrwerk, to Avco Corp. Crop watering mechanism. 3,070,006, 12–25–62, Cl. 100—192.
Raney, William E., to Raney Products Inc. Tractor device for conduits and the like. 3,018,086, 1–23–62, Cl. 254—134.5.
Ranger, Arthur W., to Schnellpressenfabrik Aktiengesellschaft Heidelberg. Variable speed mechanisms. 3,046,883, 7–31–62, Cl. 101—282.
Ranger, Laura L.: *See*—
Ranger, Richard H. 3,065,816.
Ranger, Richard H. 3,066,189.
Ranger, Richard H., deceased; L. L. Ranger, executrix, to Rangertone Electronics Corp. Stereophonic sound distributor. 3,065,816, 11–27–62, Cl. 181—31.
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Rangertone Electronics Corp.: *See*—
Ranger, Richard H. 3,065,816.
Ranger, Richard H. 3,066,189.
Rank Precision Industries Ltd.: *See*—
Chaimowicz, Adam. 3,024,454.
Huntley, Keith G. 3,060,382.
Rank Precision Industries Ltd. d.b.a. Taylor, Taylor & Hobson: *See*—
Merigold, Peter A. 3,033,082.
Ranker, William T., to American Pipe and Construction Co. Apparatus for applying a coating to joints in pipelines. 3,017,855, 1–23–62, Cl. 118—306.
Rankin, Alexander B. C.: *See*—
Brown, Thomas G., Rankin, and Haslett. 3,041,872.
Rankin, Alexander B. C., to S. Smith & Sons (England) Ltd. Ultrasonic delay lines. 3,070,761, 12–25–62, Cl. 333—30.
Rankin, Andrew W., and J. W. Eberle, to General Electric Co. High temperature turbine nozzle retaining means. 3,021,110, 2–13–62, Cl. 253—78.
Rankin, Edward E., Jr., to Halliburton Co. Quenching means and techniques for ionization devices. 3,028,495, 4–3–62, Cl. 250—83.6.
Rankin, James L. Vacuum system and nozzle for removing cut hair. 3,050,767, 8–28–62, Cl. 15—314.
Rankin, Joseph D., Jr. Container support for use on ladders. 3,052,442, 9–4–62, Cl. 248—210.
Rankin, William E. Coin viewing device. 3,040,617, 6–26–62, Cl. 88—14.
Ranky, Bela, to Panoramic Radio Products, Inc. Tunable piezo-electric crystal. 3,047,823, 7–31–62, Cl. 333—72.
Ranney, Boivin C. Disappearing mailbox. 3,021,996, 2–20–62, Cl. 232—39.
Ranney, Boivin C. Globe and clock construction. 3,049,863, 8–21–62, Cl. 58—44.
Ranney Refrigerator Co.: *See*—
Peck, Frederic G. 3,059,985.
Ranoha, Stephen, and B. H. Schallinger. Artificial trees. 3,041,767, 7–3–62, Cl. 41—15.
Ransburg Electro-Coating Corp.: *See*—
Gauthier, William D. 3,021,077.
Juvinall, James W. Re. 25,108.
Juvinall, James W. 3,031,336.
Juvinall, James W., and Marsh. 3,048,498.
Probst, Richard O. 3,055,592.
Purdy, Chester A. 3,070,766.
Ranseen, Mauritz C., ¾ to L. P. Burd. Closure means. 3,023,472, 3–6–62, Cl. 24—127.
Ransley, Charles E., to The British Aluminium Co., Ltd. Producing or refining aluminum. 3,028,324, 4–3–62, Cl. 204—67.
Ransom, George M., to The Standard Oil Co. Hose nozzle end with radially expansible sleeves. 3,048,428, 8–7–62, Cl. 285—139.
Ransom, George P.: *See*—
Friant, James E., McWilliams, and Ransom. 3,017,120.
Friant, James E., McWilliams, and Ransom. 3,059,857.
Ransom, George P., W. K. Steinhagen, and D. C. Unger, to General Motors Corp. Refrigerating apparatus. 3,057,545, 10–9–62. Cl. 230—186.
Ransom, Maurice R.: *See*—
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Ransom, Maurice R., to United States of America, Army. Projectile sensing and indicating device. 3,024,453, 3–6–62, Cl. 340—280.
Ransom & Randolph Co., The: *See*—
Preston, Jerome A. 3,019,204.
Preston, Jerome A. 3,060,150.
Ransom, Richard S.: *See*—
Conway, Hugh G., and Ransom. 3,056,598.
Ransom, Richard S., to Short Bros. and Harland Ltd. Launching means for rocket-propelled missiles. 3,015,992, 1–9–62. Cl. 89—1.7.
Ransom, Richard S., to Short Bros. and Harland Ltd. Latching and securing means for component sections of a tubular body. 3,068,036, 12–11–62, Cl. 287—54.
Ransom, Robert B., to Norfolk Products Corp. Drill and centering device. 3,027,785, 4–3–62, Cl. 77—55.
Ransom, Robert B. Spinning reel line release device. 3,069,800, 12–25–62, Cl. 43—25.
Rantsch, Kurt, to M. Hensoldt & Sohne Optische Werke, A.G. Optical measuring machines for measuring the length of workpieces. 3,026,620, 3–27–62. Cl. 33—147.
Rantsch, Kurt, to M. Hensoldt & Sohne Optische Werke A.G. Optical device for a correct adjustment and reading of the slidable displacement of a carriage in a machine. 3,041,922, 7–3–62, Cl. 88—14.
Rantsch, Kurt, Richard L. Faust, to M. Hensoldt & Sohne, Optische Werke A.G. Binoculars having shock absorbing covering. 3,020,802, 2–13–62, Cl. 88—34.
Ranucci, Saverio, and P. G. Gatti, to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Process for producing 2,3-dichloropropene-1 from allyl chloride. 3,067,266, 12–4–62, Cl. 260—654.
Ranville, Donald L.: *See*—
D'Ettorre, Alfred J., Heck, Kauffman, and Ranville. 3,057,636.
Ranville, Dorothy M.: *See*—
D'Ettorre, Alfred J., Heck, Kauffman, and Ranville. 3,057,636.
Rao, Bookinkeve C. S.: *See*—
Brown, Herbert C., Rao, and Tierney. 3,026,329.
Rao, Koppaka V., to Chas. Pfizer & Co., Inc. Dithiocarbamate tumor-inhibitory process. 3,051,625, 8–28–62, Cl. 167—78.
Rao, Koppaka V., to Chas. Pfizer & Co., Inc. Aminoiminomethane sulfinic acid tumor-inhibitory process and pharmaceutical composition. 3,051,626, 8–28–62, Cl. 167—78.
Rao, Nalal J., Adjustable specimen chamber. 3,036,492, 5–29–62. Cl. 88—14.
Rapala, Richard T.: *See*—
Farkas, Eugene, and Rapala. 3,015,666.
Rapaport, Herman I. Electrically operated toy casting machine. 3,063,109, 11–13–62, Cl. 22—79.
Rapaport, Maurice S., to Keuco Products Corp. Filling mechanism for glasses. 3,016,929, 1–16–62, Cl. 141—263.
Rapata, George M., to Illinois Tool Works. Plastic anchor member. 3,015,869, 1–9–62. Cl. 24—213.
Rapata, George M., to Illinois Tool Works Inc. Container carrier. 3,068,602, 6–12–62, Cl. 206—65.
Rapata, George M., to Illinois Tool Works. Latch device. 3,038,747, 6–12–62, Cl. 292—17.
Rapata, George M., to Illinois Tool Works, Inc. Strain relief grommet. 3,057,001, 10–9–62. Cl. 16—2.
Rapata, George M., to Illinois Tool Works, Inc. Fastener means comprising resilient socket means contractible about shoulder means on a stud member. 3,069,962, 12–25–62, Cl. 85—8.8.
Raper, Alan R., F. S. Clements, and S. J. R. Fothergill, to The International Nickel Co., Inc. Separation of platinum from other metals. 3,024,084, 3–6–62, Cl. 23—51.
Raphael, Thomas: *See*—
Merrill, Richard E., and Raphael. 3,039,913.
Raphael, Thomas, and L. R. B. Hervey, to Arthur D. Little, Inc. Method of imparting water repellency to materials and products thereof. 3,039,894, 6–19–62, Cl. 117—135.5.
Raphael, Thomas, and L. R. B. Hervey, to Arthur D. Little, Inc. Method of waterproofing cellulosic materials and product thereof. 3,039,915 6–19–62, Cl. 162—165.
Raphael, Thomas, R. E. Merrill, and W. Webb, Jr., to Spaulding Fibre Co., Inc. Process for modifying cellulosic materials and product thereof. 3,062,699, 11–6–62, Cl. 162—135.
Rapids-Standard Co., Inc., The: *See*—
Kremer, Hoyt E., and Denisty. 3,043,409.
McGow, Thomas C. 3,047,127.
McGow, Thomas C., Poel, and Olk. 3,062,359.
Sebastian, James R., and Filkins. 3,026,817.
Sweezey, Edwin W., and McKnight. 3,034,637.
Rapisarda, Edward D., to Gilbert & Barker Mfg. Co. Liquid dispensing apparatus and remote register means therefor. 3,027,048, 3–27–62, Cl. 222—35.
Rapisarda, Edward D., to Gilbert & Barker Mfg. Co. Preselector mechanism for liquid dispensing apparatus. 3,053,414, 9–11–62, Cl. 222—20.
Rapisarda, Jordan. Process of and machine for making package. 3,060,996, 10–30–62, Cl. 156—583.
Rapisarda, Lillian E.; 50% to T. W. McCarthy. Scalp protector. 3,068,874, 12–18–62, Cl. 132—9.
Rapistan-Keystone, Inc.: *See*—
Sgriccia, Mario T. 3,043,236.
Sgriccia, Mario T., and Ferrari. 3,055,311.
Rapp, George M.: *See*—
Bailey, George B., and Rapp. 3,055,347.

Rapp, Harry E., to Insul-Fil Co., Inc. Protective casing for pipes and the like. 3,045,709, 7–24–62, Cl. 138—145.
Rapp, Richard: ½ to B. Pearl. Form-fitting pants. 3,068,-871, 12–18–62, Cl. 128—519.
Rappaport, Bernard B. Heat disseminating multiple spit assembly and stand. 3,053,169, 9–11–62, Cl. 99—421.
Rappaport, Maximiliano. Device for visual observation of vocal cords. 3,020,449, 3–20–62, Cl. 315—166.
Rappaport, Maximiliano. Pill sorting apparatus. 3,057,477, 10–9–62. Cl. 209—223.
Rappaport, Sigmund: *See*—
Buckley, Charles W., and Rappaport. 3,026,150.
Rapplean, Eugene L., to ACF Industries, Inc. Fuel system for internal combustion engines. 3,031,172, 4–24–62, Cl. 261—51.
Rappleyea, Frederick A.: *See*—
Morgan, Gerard E., and Rappleyea. 3,054,197.
Rappold & Co., G.m.b.H., Fa.: *See*—
Kämmund, Berthold, and Schlegel. 3,037,737.
Rappold, Hermann, & Co.: *See*—
Schiegries, Eduard. 3,061,265.
Rapport, Arthur, to Leeco Chemical Co., division of Leeco Gas and Oil Co. Insect control compositions and methods. 3,040,002, 12–20–62, Cl. 167—30.
Rapson, William H., to Hooker Chemical Corp. Method of bleaching wood pulp with chlorine dioxide and sodium borohydride. 3,017,316, 1–16–62, Cl. 162—80.
Rapuano, Robert A.: *See*—
MacDowell, Kenneth M., and Rapuano. 3,038,068.
Rapuano, Robert A., to Raytheon Co. Microwave duplexers. 3,030,501, 4–17–62, Cl. 250—13.
Rapuzzi, John J. Universal inserted ball type buckle. 3,015,865, 1–9–62, Cl. 24—21.
Rardin, Glen N., to Lockheed Aircraft Corp. Apparatus and method for high velocity forming of metals using high explosives. 3,065,720, 11–27–62, Cl. 113—44.
Rascati, Salvatore A., to General Electric Co. Busway plug units. 3,021,499, 2–13–62, Cl. 339—22.
Rascati, Salvatore A., and V. S. Peterson, to Combustion Engineering, Inc. Welding apparatus. 3,021,419, 2–13–62, Cl. 219—124.
Rasch, Arthur A.: *See*—
Tregillus, Leonard W., and Rasch. 3,017,270.
Yackel, Edward C., Yutzy, Foster, and Rasch. 3,020,155.
Rasch, Herman R.: *See*—
Ellis, Edward, and Rasch. 3,061,978.
Rasch, Herman R., and R. J. Cummins, to National Steel Corp. Metallic building structure. 3,019,861, 2–6–62, Cl. 189—1.
Rasch, Royal H., P. L. Leemhuis, and H. Sutton, to Hammermill Paper Co. Semichemical pulping process for soft woods. 3,069,310, 12–18–62, Cl. 162—86.
Raschig, Dr. F., G.m.b.H.: *See*—
Mathes, Wilhelm, and Wolf. 3,042,678.
Raschig, Klaus, and Bungartz. 3,053,081.
Steinhards, Arnolds, and Mathes. 3,043,675.
Raschig, Klaus, and T. Bungartz, to Dr. F. Raschig G.m.b.H. Method and apparatus for testing the properties of plastic materials. 3,053,081, 9–11–62, Cl. 73—150.
Raschle, Joseph, to Heberlein Patent Corp. Twisting device. 3,058,289, 10–16–62, Cl. 57—77.3.
Rascov, Anthony Gates. 3,049,827, 8–21–62, Cl. 39—31.
Rasero, Lawrence J.: *See*—
Runton, Leslie A., Morton, and Rasero. 3,053,592.
Runton, Leslie A., and Rasero. 3,068,053.
Rasero, Lawrence J., and T. I. Read, to The Russell Mfg. Co. Fabric web. 3,067,484, 12–11–62, Cl. 28—80.
Raskhodoff, Nicholas M. Phase changing devices. 3,024,629, 3–13–62, Cl. 64—24.
Rasmusen, Reidar P. C.: *See*—
Muder, Allan C., and Rasmusen. 3,016,484.
Rasmussen, Clarence T., and J. H. Creighton, to Deere & Co. Scraper. 3,038,266, 6–12–62, Cl. 37—129.
Rasmussen, Clarence T., and J. H. Creighton, to Deere & Co. Carry type scraper. 3,048,933, 8–14–62, Cl. 37—129.
Rasmussen, George E., to Acme Steel Co. Pallet rack. 3,042,-221, 7–3–62, Cl. 211—148.
Rasmussen, Henning O.: *See*—
Henriques, Eric O., and Rasmussen. 3,043,332.
Henriques, Eric O., and Rasmussen. 3,043,334.
Rasmussen, Kai, H. Hanson, Jr., and E. W. Colwell, to Davol Rubber Co. Package for sterile articles. 3,035,691, 5–22–62, Cl. 206—63.2.
Rasmussen, Lawrence: *See*—
Paulson, Morris, and Rasmussen. 3,015,957.
Rasmussen, Richard E., to General Motors Corp. Hydropneumatic tire. 3,033,261, 5–8–62, Cl. 152—10.
Rasmussen, Robert F., to Minneapolis-Honeywell Regulator Co. Control apparatus. 3,029,792, 4–17–62, Cl. 121—58.
Rasmussen, Robert F., to Minneapolis-Honeywell Regulator Co. Hydraulic servomotor. 3,034,483, 5–15–62, Cl. 121—41.
Rasmussen, Robert H. Mobile display device. 3,066,432, 12–4–62, Cl. 40—106.31.
Rasmussen, Robert R. Trailer tire. 3,059,957, 10–23–62, Cl. 295—8.5.
Rasmussen, Roy K. Utility sled. 3,061,326, 10–30–62, Cl. 280—20.
Rasmussen, Rusmus E. Trashburner cover with clamp. 3,039,647, 6–19–62, Cl. 220—30.
Rasmussen, Svein B., and J. F. Wood. Temperature transducer device. 3,067,613, 12–11–62, Cl. 73—362.
Rasmussen, Viggo. Pontoon boat structure. 3,025,537, 3,025,537, 3–20–62, Cl. 9—1.
Rasmusson, Marlin B. Frozen confection machine. 3,031,-978, 5–1–62. Cl. 107—8.
Rasmusson, Marlin B. Stick inserter for frozen confection machines. 3,038,635, 6–12–62, Cl. 221—81.
Rasmusson, Marlin B. Packaging machine. 3,045,408, 7–24–62, Cl. 53—376.
Rasmusson, Marlin B. Carton blank feeder. 3,051,478, 8–28–62, Cl. 271—42.
Rasor, John P. Detector for flaws in buried pipe and the like. 3,066,256, 11–27–62, Cl. 324—54.
Raspante, Antonino. Apparatus for dispensing variable metered quantities of fluid. 3,052,379, 9–4–62, Cl. 222—76.
Rasquin, John R., and R. J. Schwinghamer, to United States of America, National Aeronautics and Space Administration. Angular measurement system. 3,041,587, 6–26–62, Cl. 340—198.
Rassier, Cecil A., to D. Sebel & Co. Ltd. Combination table and chair. 3,034,827, 5–15–62, Cl. 297—170.
Rassier, Cecil A., to D. Sebel & Co. Ltd. Toys. 3,050,302, 8–21–62. Cl. 272—52.
Rassweiler, John H., and D. R. Sexsmith, to American Cyanamid Co. Polymeric sulfonium salts. 3,060,156, 10–23–62, Cl. 260—79.
Rassweiler, John H., and D. R. Sexsmith, to American Cyanamid Co. Cationic copolymeric quaternary salts of chloromethyl styrene and acrylamide. 3,068,213, 12–11–62, Cl. 260—87.5.
Rassweiler, John H., and D. R. Sexsmith, to American Cyanamid Co. Quaternary phosphonium salts of halogen substituted vinyl aromatic acrylamide copolymers. 3,068,-214, 12–11–62, Cl. 260—87.5.
Rast, Frederick Q.: *See*—
Kuhlman, John D., Kull, and Rast. 3,069,901.
Rast, Frederick Q., and L. F. Wilson, to General Time Corp. Television programmer. 3,054,038, 9–11–62, Cl. 318—467.
Rast, Gustav E., to Allied Chemical Corp. Non-dusting stabilized diazo salt compositions. 3,034,849, 5–15–62, Cl. 8—79.
Rast, Shirley I.: *See*—
Rast, Wlodzimierz and S. I. 3,037,524.
Rast, Wlodzimierz and S. I. Check valve for multi-line hydraulic systems. 3,037,524, 6–5–62, Cl. 137—612.1.
Ratajak, Edwin J.: *See*—
Nubel, Robert C., and Ratajak. 3,044,941.
Ratby Engineering Co. Ltd.: *See*—
Herrod, Leonard G. 3,031,087.
Herrold, Leonard G. 3,068,968.
Ratcliff, Daniel. Device for recovering fish lures and the like. 3,016,649, 1–16–62, Cl. 43—17.2.
Ratcliff, Karl A.: *See*—
Towey, John P., Van Wyke, Ratcliff, and Dorrance. 3,027,229.
Ratcliff, Karl A., W. A. Dorrance, and J. P. Towey, to Diamond Laboratories. Composition for treating frothy blood transfusions. 3,062,711, 11–6–62, Cl. 167—53.
Ratcliff, Karl A., W. A. Dorrance, and J. P. Towey, to Diamond Laboratories, Inc. Antacid: calcium phosphate gel-magnesium trisilicate. 3,066,073, 11–27–62, Cl. 167—55.
Ratcliffe, John M.: *See*—
Mansfield, Thomas, and Ratcliffe. 3,056,571.
Rateau, Societe: *See*—
Hirtz, Alfred. 3,063,762.
Ratelband, Johannes B., to N.V. Inter-Ocean. Valves of the diaphragm type. 3,060,966, 10–30–62, Cl. 137—601.
Rath, Frank E., to Spang & Co. Process for recovering substantially pure magnetic metal pieces and magnetic oxides from steel plant debris. 3,049,305, 8–14–62, Cl. 241—14.
Rath, Karl: *See*—
Chauvineau, Jean E. 3,024,386.
Guanella, Gustav. 3,025,480.
Rath Packing Co., The: *See*—
Christianson, George. 3,058,830.
Rathbun, Harvey L., Jr.: *See*—
Parssinen, Edwin J., Rathbun, and Woollett. 3,054,084.
Rathenau, Hans W. Directional-antenna rotator. 3,041,609, 6–26–62, Cl. 343—766.
Rather, Roy L., and V. P. Goerland, to Commercial Engineering Corp. Underwater tow cable. 3,060,886, 10–30–62, Cl. 114—235.
Rathje, David S., to Beckman Instrument, Inc. Resistance wire testing method and apparatus. 3,034,047, 5–8–62, Cl. 324—62.
Rathman, Howard. Hot air furnace humidifier. 3,033,193, 5–8–62. Cl. 126—113.
Ratish, Herman D., and M. Hochberg, to Nopco Chemical Co. Vitamin compositions and processes for producing same. 3,067,105, 12–4–62, Cl. 167—81.
Ratkevich, Adam E., to Ryan Aeronautical Co. Opening microwave antenna having parasitic tuning slots and tuning plates to adjust effective phase center. 3,046,551, 7–24–62, Cl. 343—778.
Ratliff, Otho D.: *See*—
Corley, Boyce M., and Ratliff. 3,062,694.
Hall, Robert L., and Ratliff. 3,053,708.
Ratliff, Otho D., and W. T. McMichael, to Phillips Petroleum Co. Rubber and propellant composition containing the same. 3,049,452, 8–14–62, Cl. 149—19.
Ratliff, Otho D., Jr., to Phillips Petroleum Co. Rocket propellent ignition means. 3,023,702, 3–6–62, Cl. 102—70.2.

Ratner, Lee : *See*—
Ituce, Willis N. 3,018,217.
Ratterman, Walter, Jr. Remotely operable means for draining submerged pump structure. 3,045,608, 7–24–62, Cl. 103—221.
Ratti, Giuseppe, to Giuseppe Ratti Industria Italiana Occhiali, S.p.A. Spectacle frame with flexible portions. 3,052,160, 9–4–62, Cl. 88—52.
Ratti, Giuseppe, Industria Italiana Occhiali, S.p.A. : *See*—
Ratti, Giuseppe. 3,052,160.
Ratz, Alfred G., to Electro-Mechanical Research, Inc. Power spectrum telemetry. 3,035,228, 5–15–62, Cl. 324—77.
Ratz, Alfred G., to Electro-Mechanical Research, Inc. Transfer function computer. 3,055,588, 9–25–62, Cl. 235—193.
Rätz, Rudi F. W. : *See*—
Kober, Ehrenfried H., Rätz, and Ulrich. 3,041,346.
Rätzel, Gerd, to Alm Corp. Air permeable fire retarding and flame proof partitions, doors and the like. 3,027,272, 3–27–62, Cl. 117—99.
Rau, Carl : *See*—
Rau, Edward A. and C. 3,034,660.
Rau, Edward A. and C. Trailer mounted folding derrick with telescoping boom. 3,034,660, 5–15–62, Cl. 212—46.
Rau Findings Co. : *See*—
Millman, Max. 3,025,093.
Rau, Frank J., to Westinghouse Electric Corp. Motor starting noise measuring circuit. 3,069,672, 12–18–62, Cl. 340—261.
Rau, Robert F., to Sylvania Electric Products Inc. Flash gun socket. 3,015,798, 1–2–62, Cl. 339—45.
Rau, Robert J., to Blaw-Knox Co. High speed kick-out device. 3,029,922, 4–17–62, Cl. 198—24.
Rauh, Samuel H. S., W. J. Alton, S. F. Joachim, and W. W. Palmquist, to Union Carbide Corp. Armored valves. 3,044,489, 7–17–62, Cl. 137—556.3.
Raub, Werner P. : *See*—
Holmberg, Arne F., Hellkvist, and Raub. 3,068,436.
Rauch, Emil B. : *See*—
Dersch, Fritz, Kaszuba, and Rauch. 3,051,570.
Dersch, Fritz, and Rauch. 3,042,521.
Rauch, Emil B., and F. Dersch, to General Aniline & Film Corp. Antifoggants and stabilizers for photographic silver halide emulsions. 3,026,201, 3–20–62, Cl. 96—67.
Rauch, Ernest F. : *See*—
Squarcheri, Vincent, and Rauch. 3,027,847.
Rauch, Harald K., K. D. Tessmar, and T. G. Volker, to Rohm & Haas G.m.b.H. Polymeric agglomerating agents. 3,033,782, 5–8–62, Cl. 210—54.
Rauchmann, Hans : *See*—
Raehs, Wilhelm, and Rauchmann. 3,036,781.
Rauchwerk, Andrew : *See*—
Katz, Abraham, and Rauchwerk. 3,047,843.
Raudenbush, Charles : *See*—
Skramstad, Harold K., Raudenbush, and Hart. 3,050,690.
Rauenbuhler, John, to Cutler-Hammer, Inc. Conveyor apparatus. 3,053,376, 9–11–62, Cl. 198—33.
Rauer, Frank W. Distortionless electrical amplifier. 3,061,794. 10–30–62, Cl. 330—148.
Raufelsen, Joseph, to Bell & Gossett Co. Control apparatus and method for unloading compressors. 3,033,217, 5–8–62, Cl. 137—82.
Rauh, Charles E., III : *See*—
Osterberg, Arnold C., and Rauh. 3,053,731.
Rauh, Herbert H., to Robertshaw-Fulton Controls Co. Thermostatically controlled fluid valve. 3,045,919, 7–24–62, Cl. 236—99.
Rauh, Herbert H., to Robertshaw-Fulton Controls Co. Thermal valve. 3,050,258, 8–21–62, Cl. 236—99.
Rauh, Thomas M. Rotary gripping device. 3,040,854, 6–26–62, Cl. 192—45.1.
Rauhauser, Warren C. : *See*—
Herrmann, John A., Davis, Hickey, Wood, and Rauhauser. 3,066,273.
Rauhut, Michael M., and A. M. Semsel, to American Cyanamid Co. Preparation of alkyl cycloalkyl and aromatic phosphines. 3,060,241, 10–23–62, Cl. 260—606.5.
Rauhut, Michael M., and A. M. Semsel. Tris(2-carbamoylethyl) phosphine oxide, derivatives thereof, and process for making same. 3,067,251, 12–4–62, Cl. 260—561.
Rauland Corp., The : *See*—
Niklas, Wilfrid F. 3,017,517.
Niklas, Wilfrid F. 3,026,437.
Szegho, Constantin S. Re. 25,127.
Raulerson, Joseph G. : *See*—
Smathers, Ralph L., and Raulerson. 3,016,996.
Raulins, George M. : *See*—
Schramm, Harry R., Raulins, and Fredd. 3,025,912.
Schramm, Harry R., Raulins, and Fredd. 3,054,449.
Raulins, George M., to Otis Engineering Corp. Well tools. 3,070,119, 12–25–62, Cl. 137—460.
Raulins, George M., and S. J. Graves, to Otis Engineering Corp. Well tools. 3 048,358, 8–7–62, Cl. 248—49.
Raum, Alaric L. J. : *See*—
Fraser, Donald A., and Raum. 3,057,836.
Raum, Alaric L. J., to The Distillers Co. Ltd. Polymerisation process. 3,027,360, 3–27–62, Cl. 260—93.7.
Raum, Alaric L. J., to The Distillers Co. Ltd. Polymerisation of ethylene with lithium borohydride and group IV B metal halides. 3,057,841, 10–9–62, Cl. 260—94.9.
Raum, Alaric L. J., to The Distillers Co. Ltd. Three component inorganic catalyst for the polymerization of ethylene. 3,070,590, 12–25–62, Cl. 260—94.9.
Rauner, Lawrence A., and L. J. Tyler, to Dow Corning Corp. Organo siloxane-alkyd resin coating compositions. 3,015,637, 1–2–62, Cl. 260—22.
Raura, Penti V., to Furuplywood, Aktiebolaget. Method and device for centering irregularly formed, substantially cylindrical workpieces, such as logs. 3,036,607, 5–29–62, Cl. 144—209.
Rausch, Hans : *See*—
Boss, Karl-Heinz, Rausch, and Meyer. 3,020,147.
Meyer, Kurt, Rausch, and Koch. 3,034,884.
Schaefer, Bruno, Michels, Meyer, and Rausch. 3,027,251.
Rausch, Hans, and K. Meyer, to Metallgesellschaft Aktiengesellschaft. Seals for the gas hoods of sintering machines. 3,042,390, 7–3–62, Cl. 266—21.
Rausch, Marvin D. : *See*—
Rosenberg, Harold, and Rausch. 3,060,215.
Rausch, Marvin D., to Monsanto Chemical Co. Ferrocenyl aryl ethers. 3,064,026, 11–13–62, Cl. 260—439.
Rausch, Werner, to Parker Rust Proof Co. Process for continuously operating chromating solutions. 3,032,447, 5–1–62, Cl. 148—6.2.
Rausch, William G. : *See*—
Harris, Sidney E., and Rausch. 3,018,595.
Rausing, Hans A. Tetrahedron package with dispensing opening. 3,018,649, 6–12–62, Cl. 229—17.
Rauske, Woldemar C., and J. K. Parkey, to Union Carbide Corp. Multiple cell galvanic battery. 3,056,850, 10–2–62, Cl. 136—173.
Rautio, Laurie J., to Clayton & Lambert Mfg Co. Method of and apparatus for bottom-unloading feed-storing structures. 3,043,453, 7–10–62, Cl. 214—17.
Rautiola, Lloyd E. : *See*—
Foerster, George S., and Rautiola. 3,024,107.
Ravaschieri, Louis V. Suspensory bag for undergarments. 3,037,503, 6–5–62, Cl. 128—159.
Rave, Joseph A., Jr. : *See*—
Morgan, John M., Jr., Brown, and Rave. 3,019,377.
Raven Co. Ltd., The : *See*—
Crowther, Philip A. T., and Swaine. 3,025,839.
Raven, James E. : *See*—
MacIntosh, Theodore N., Raven, and Schwartz. 3,034,821.
Ravenna, Franco : *See*—
Carissimi, Massimo, and Ravenna. 3,027,302.
Ravensberg G.m.b.H., Chemische Fabrik : *See*—
Kasparek, Hermann, Stach, and Pfroepffer. 3,028,389.
Siemer, Harm, and Doppstadt. 3,043 841.
Siemer, Harm, and Hengsen. 3,018,222.
Ravenscroft, Jack, to The British Iron and Steel Research Association. Electric arc furnaces. 3,043,894, 7–10–62, Cl. 13—12.
Raver, Francis M. : *See*—
Larson, Arthur G., and Raver. 3,049,895.
Raver, Jack, to General Dynamics Corp. Electrical connector. 3,020,511, 2–6–62, Cl. 339—65.
Raver, Louis J., and R. W. Campbell, to General Motors Corp. Generator regulator circuit. 3,059,169, 10–16–62, Cl. 322—95.
Raver, Norman, to International Telephone and Telegraph Corp. Pulse timing control circuit. 3,048,708, 8–7–62, Cl. 307—88.5.
Ravich, Leonard E. : *See*—
Kallmann, Hartmut P., Furst, and Brown. 3,068,178.
Ravich, Leonard E. Methods of making contaminant-proof electrical circuit components. 3,052,012, 9–4–62, Cl. 29—155.5.
Ravich, Leonard E., to Hupp Corp. Methods and apparatus for control of combustion products. 3,056,467, 10–2–62, Cl. 23—277.
Ravich, Leonard E., to Hupp Corp. Artifically climatized greenhouse. 3,063,195, 11–13–62, Cl. 47—17.
Rawcliffe, Gordon H., to National Research Development Corp. Rotary electric machines. 3,049,653, 8–14–62, Cl. 318—173.
Rawcliffe, Gordon H., to National Research Development Corp. Rotary electric machines. 3,065,395, 11–20–62, Cl. 318—165.
Rawcliffe, Gordon H., to National Research Development Corp. Rotary electric machines. 3,070,734, 12–25–62, Cl. 318—224.
Rawding, Burton R., to Raytheon Co. Supports for vibratory devices. Re. 25,119, 1–30–62, Cl. 310—26.
Rawding, Burton R., to Raytheon Co. Mechanical resonance indicators. 3,044,290, 7–17–62, Cl. 73—67.2.
Rawdon, Albert H., to Riley Stoker Corp. Control of superheat. 3,060,906, 10–30–62, Cl. 122—478.
Rawitz, Herbert : *See*—
Barbarini, Robert F., Wendt, and Rawitz. 3,037,289.
Rawlings, Arthur L., to Bulova Research and Development Laboratories, Inc. Sea level indicating barometer. 3,051,002, 8–28–62, Cl. 73—386.
Rawlings, John H., to City Linen, Inc. Protective device. 3,044,075, 7–17–62, Cl. 2—22.
Rawlins, Charles B. : *See*—
Clark, John W., Young, and Rawlins. 3,052,747.
Rawlins, Robert E. : *See*—
Bagley, Alan S., and Rawlins. 3,039,685.
Rawlinson, Alvis M., and G. M. Falling, to Owens-Corning Fiberglas Corp. Cooling method and apparatus. 3,019,476, 2–6–62, Cl. 18—2.5.

Rawski, Robert E.: *See*—
Beck, Renold R., and Rawski. 3,041,522.
Rawson, Emanuel, to Grand Sheet Metals Products Co. Method of assembling knock-down cabinets. 3,015,349, 1–2–62, Cl. 144—318.
Rawson, Harold, and C. A. Elyard, to Associated Electrical Industries Ltd. Production of high density sintered uranium oxide. 3,063,793, 11–13–62, Cl. 23—14.5.
Rawsons (Labelling Machines) Ltd.: *See*—
Freeland, Charles A. 3,029,979.
Rawstron, George O. Apparatus for and method of polishing aspheric surfaces. 3,050,909, 8–28–62, Cl. 51—124.
Ray, Bert E.: *See*—
Fox, Robert M., and Ray. 3,019,469.
Ray, Chester A., to Overton Machine Co. Feed device for dehydrating machine. 3,041,738, 7–3–62, Cl. 34—112.
Ray, Estil C. Fishing device, particularly for ice fishing. 3,056,227, 10–2–62, Cl. 43—17.
Ray, James D.: *See*—
Clemens, John E., Delabar, and Ray. 3,025,054.
Ray, John G., to Sylvania Electric Products Inc. Electron discharge lamp. 3,043,983, 7–10–62, Cl. 313—221.
Ray, John G., to Sylvania Electric Products Inc. Fluorescent lamp. 3,067,356, 12–4–62, Cl. 313—221.
Ray, Jon P., to Texas Instruments Inc. Method and apparatus for recording digital counter values. 3,063,631, 11–13–62, Cl. 235—92.
Ray, Leonard N., Jr.: *See*—
Feigley, David A., Jr., and Ray. 3,056,714.
Feigley, David A., Jr., and Ray. 3,056,715.
Feigley, David A., Jr., and Ray. 3,056,716.
Feigley, David A., Jr., and Ray. 3,056,717.
Ray, Richard: *See*—
Cull, Neville, Leverne, Hunter, Verbois, and Ray. 3,048,-562.
Ray, Richard E.: *See*—
Colton, Frank B., and Ray. 3,068,249.
Ray, Richard L.: *See*—
Cull, Neville L., and Ray. 3,035,013.
Ray, Richard L., to Esso Research and Engineering Co. Modified halogenated polymeric materials. 3,033,838, 5–8–62, Cl. 260—85.3.
Ray, Robert F.: *See*—
Derrington, Edward R., and Ray. 3,026,897.
Ray, Robert T., 10% to B. W. Downs. Wall structure for buildings. 3,065,575, 11–27–62, Cl. 50—405.
Ray, Watson, A., and J. Ryer, to Texaco, Inc. Process for producing a zinc chromite catalyst. 3,027,316, 3–27–62, Cl. 208—134.
Ray, William A., to General Controls Co. Gas regulator construction. 3,025,873, 3–20–62, Cl. 137—454.2.
Ray, William A., to General Controls Co. Gas pressure regulator with semi-balanced inner valve member. 3,035,608, 5–22–62, Cl. 137—505.41.
Ray, William A., to General Controls Co. Valve structure and system. 3,035,774, 5–22–62, Cl. 236—80.
Ray, William A., to General Controls Co. Solenoid operated four-way valve. 3,040,775, 6–26–62, Cl. 137—623.
Ray, William A., to General Controls Co. Laminated magnetic structure, and process for making same. 3,058,039, 10–9–62, Cl. 317—198.
Ray, William A., to General Controls Co. Top burner control for gas ranges. 3,058,665, 10–16–62, Cl. 236—20.
Ray, William A., B. J. Wollar, and R. Wilson, to General Controls Co. Electromagnetic counter. 3,047,224, 7–31–62, Cl. 235—92.
Ray, William A., and F. R. Hedger, to General Controls Co. Cylinder construction for hydraulic apparatus. 3,061,695, 10–30–62, Cl. 200—82.
Ray, William H.: *See*—
Dana, Baron R., and Ray. 3,043,743.
Ray, William H., to United States Steel Corp. Grapple for lifting cylindrical articles. 3,020,078, 2–6–62, Cl. 294—63.
Ray, William H., to Richardson-Merrell Inc. Improvement in nitrofuran solutions. 3,065,131, 11–20–62, Cl. 167—53.
Raybestos-Manhattan, Inc.: *See*—
Batchelor, Clyde S., and Jensen. 3,062,348.
Moore, Robert L., and Atwell. 3,054,761.
Novak, Izador J. 3,035,698.
Novak, Izador J. 3,062,697.
Novak, Izador J. 3,062,701.
Perkins, Wilder E. 3,031,364.
Raybond Electronics, Inc.: *See*—
Reed, Herbert B., and Ross. 3,027,443.
Raybuck, William B.: *See*—
Brodie, George R., and Raybuck. 3,034,429.
Rayburn, Charles C., to Illinois Tool Works. Wire connector for printed circuit board or the like. 3,022,369, 2–20–62, Cl. 174—68.5.
Rayburn, Charles C., to Illinois Tool Works. Mounting means for electrical components. 3,027,494, 3–27–62, Cl. 317—101.
Rayburn, Charles C., to Illinois Tool Works, Inc. Wound capacitor. 3,040,415, 6–26–62, Cl. 29—25.42.
Rayburn, Charles C., to Illinois Tools Works, Inc. Component lead-locking arrangement. 3,056,939, 10–2–62, Cl. 339—17.
Rayburn, Charles C., and J. G. Black, Jr., to Illinois Tool Works Inc. Feeding and loading apparatus. 3,026,990, 3–27–62, Cl. 198—31.
Rayburn, Charles C., and F. T. Mullikin, to Illinois Tool Works, Inc. Electronic assembly. 3,034,198, 5–15–62, Cl. 29—25.42.
Rayburn, Vincent A.: *See*—
Adams, George P., and Rayburn. 3,052,208.
Rayburn, Vincent A., to Western Electric Co., Inc. Article-forming apparatus. 3,052,919, 9–11–62, Cl. 18—16.
Rayburn, Vincent A., to Western Electric Co., Inc. Article-assembling apparatus. 3,067,496, 12–11–62, Cl. 29—203.
Rayden, Raymond G.: *See*—
Prowse, Donald W., and Rayden. 3,033,347.
Rayder, Walter W., to B. H. Lantz. Plow structure. 3,050,-136, 8–21–62, Cl. 172—759.
Rayder, Walter W., to B. H. Lantz. Plow structure. 3,050,-137, 8–21–62, Cl. 172—759.
Raydt, Ulrich, and K. H. Hahne. Production of electric cable sheaths. 3,025,946, 3–20–62, Cl. 205—26.
Raydyne Corp.: *See*—
Phelps, Clyde H. 3,057,206.
Phelps, Clyde H. 3,059,479.
Rayette, Inc.: *See*—
Whitman, Ross C., and Eckstrom. 3,039,934.
Raylite Electric Corp.: *See*—
Abramson, Abraham. 3,050,619.
Rayman, George E., and K. J. Libby. Torque timing system. 3,033,236, 5–8–62, Cl. 137—624.15.
Raymond, A.: *See*—
Conil, Marius H. 3,066,902.
Perrochat, Jean. 3,018,529.
Perrochat, Jean. 3,063,114.
Perrochat, Jean. 3,020,611.
Raymond, Albert V. 3,029,486.
Von Rath, Herbert. 3,040,401.
Raymond, Albert E., to Minnesota Mining and Mfg. Co. Reinforced rotative abrasive structures. 3,030,743, 4–24–62, Cl. 51—307.
Raymond, Albert V., to A. Raymond. Plastic panel clip. 3,029,486, 4–17–62, Cl. 24—73.
Raymond Bag Corp.: *See*—
Leslie, William T. 3,029,012.
Leslie, William T. 3,038,427.
Raymond, Chester A. Quickly mountable, cavity type pipe organ valve. 3,063,325, 11–13–62, Cl. 84—332.
Raymond Corp., The: *See*—
Gibson, Christian D. 3,067,839.
Raymond De-Icer & Engineering Co., Inc.: *See*—
Likely, Newton A., and Myers. 3,053,279.
Raymond, Francis A.: *See*—
Flannery, Edward J., and Raymond. 3,015,454.
Raymond, Francois H., and J. Henry-Baudot, to Societe d'Electronique et d'Automatisme. Relative motion electrical measuring apparatus. 3,039,518, 4–17–62, Cl. 33—125.
Raymond, Francois H., A. M. Recoque, and J. Brodin, to Societe d'Electronique et d'Automatisme. Magnetic core circuits for binary coded information handling. 3,058,098, 10–9–62, Cl. 340—174.
Raymond, Francois H., and A. P. Jeudon, to Societe d'Electronique et d'Automatisme. Digital control systems for machine-tools. 3,062,995, 11–6–62, Cl. 318—162.
Raymond, Frederick J.: *See*—
Sterling, Henley F., and Raymond. 3,044,967.
Sterling, Henley F., and Raymond. 3,069,241.
Raymond, G. N., Ltd.: *See*—
Raymond, Lorenzo E. 3,034,160.
Raymond International, Inc.: *See*—
Blessey, Walter E. 3,046,749.
Kinneman, William P., and Ippen. 3,022,634.
McCall, Harold M. 3,060,695.
Schultz, Herbert C. 3,069,093.
Smith, Edward A. 3,027,724.
Upson, Maxwell M. 3,034,304.
Raymond, Leonard Z.: *See*—
Finucane, Thomas P., Mitchell, and Raymond. Re. 25,231.
Mascuso, John J., and Raymond. 3,060,038.
Raymond, Lorenzo D., to G. N. Raymond, Ltd. Shoemakers' lasts. 3,034,160, 5–15–62, Cl. 12—136.
Raymond, Malcolm L. Non drip, non slip, non tip cup and saucer. 3,067,904, 12–11–62, Cl. 220—23.83.
Raymond, Richard L.: *See*—
Davis, John B., and Raymond. 3,057,784.
Douros, John D., Jr., and Raymond. 3,065,149.
Raymond, Robert E., to Racine Hydraulics and Machinery, Inc. Surge suppressor valve. 3,067,772, 12–11–62, Cl. 137—494.
Raymond, Samuel. Apparatus for effecting extraction. Re. 25,186, 6–19–62, Cl. 23—270.5.
Raymond, Samuel. Apparatus for zone electrophoresis. 3,047,489, 7–31–62, Cl. 204—299.
Raynes, Burt F., to Rohr Aircraft Corp. Scrubber for machine ways. 3,030,692, 4–24–62, Cl. 29—1.
Raynor, Robert D., to Clear Beam Antenna Corp. Antenna mount. 3,041,024, 6–26–62, Cl. 248—43.
Raynor, Robert D., to Clear Beam Antenna Corp. Rabbit ear antenna. 3,045,240, 7–17–62, Cl. 343—805.
Raynor, Warren S., to Mathews Conveyer Co. Conveyer roller support assembly. 3,035,685, 5–22–62, Cl. 198—202.
Raynovich, George, Jr.: *See*—
Poundstone, William N., and Raynovich. 3,069,147.
Price, Stanley J., Jr., and Raynovich. 3,046,745.
Rayon, Andrus B. Ground clamp for electric welder. 3,034,082, 5–8–62, Cl. 339—8.
Rayonier Inc.: *See*—
Carlson, Lewis J. 3,065,263.
Gray, Kenneth R., and Herrick. 3,062,783.

Rayonier Inc. : *See*—Continued
Fahey, Michael D., Tabke, and Rickey. 3,037,902.
Herrick, Franklin W., and Bock. 3,025,250.
Herrick, Franklin W., and Bock. 3,053,784.
Mitchell, Reid L. 3,032,549.
Mitchell, Reid L., Albohn, and Palmgren. 3,045,007.
Mitchell, Reid L., Berry, and Wadman. 3,018,158.
Mitchell, Reid L., and Smith. 3,054,705.
Mitchell, Reid L., Smith, and Welton. 3,046,082.
Smith, Norman H., and Gray. 3,025,235.

Raytheon Co. : *See*—
Adel, Alf F. 3,024,402.
Apelbaum, Joseph H., and O'Brien. 3,045,320.
Beebe, John N., and Frykland. 3,036,289.
Brown, Barry D. 3,064,200.
Butler, John R. 3,045,147.
Caswell, John R. 3,057,977.
Chamberlain, Robert J. 3,015,884.
Chapell, Harry F. 3,054,016.
Clampitt, Lawrence L., and Zawada. 3,041,497.
Clampitt, Lawrence L., and Zawada. 3,058,029.
Copson, David A. 3,020,645.
Copson, David A., and Krajewski. 3,048,928.
Davis, Luther, Jr. 3,063,024.
Davis, Luther, Jr. 3,067,140.
Dench, Edward C. 3,027,483.
Dench, Edward C. 3,027,487.
Dench, Edward C. 3,032,676.
Dench, Edward C. 3,032,977.
Dench, Edward C. 3,046,443.
Dench, Edward C. 3,069,587.
Dench, Edward C., and Derby. 3,038,067.
Derby, Palmer P., and Geier. 3,046,445.
Downing, Edward T., and Smith. 3,046,444.
Dudley, Kenneth W., and Apelbaum. 3,018,404.
Eckler, Richard C., and Morrill. 3,015,713.
Fisher, Vernon H. 3,057,041.
Fryklund, Robert A. 3,058,027.
Fryklund, Robert A. 3,064,115.
Gill, Arthur. 3,040,193.
Gindsberg, Joseph. 3,036,277.
Goltsos, Costas E., Mark, and Stephenson. 3,024,298.
Gronemeier, Howard J. 3,018,323.
Guterman, Sadia S. 3,017,084.
Hannon, Stephen, and Shannan. 3,041,561.
Happ, William W. 3,058,041.
Harmer, John D. 3,036,275.
Heeren, Vernon L., and Reed. 3,036,279.
Hergenrother, Rudolf C. 3,016,474.
Hergenrother, Rudolf C., Luftman, Sawyer, and Duggan. 3,068,548.
Hines, Paul J., and Worth. 3,045,200.
Hutchins, William R. 3,021,521.
Kodis, Robert D. 3,027,545.
Kramp, Kurt M. 3,016,529.
Larsen, Allan R. 3,023,781.
Leverton, Walter F. 3,025,191.
Low, Russell C. 3,017,598.
MacDowell, Kenneth M., and Rapuano. 3,038,068.
Manahan, John F., and Richter. 3,063,030.
Markow, Elliott W. 3,017,583.
Morin, Ralph H. 3,021,851.
Mork, Raymond P. 3,022,471.
Muchnick, Paul, Tanner, Silver, and Helterline. 3,042,848.
Nowak, Herman P. 3,042,200.
O'Hara, Francis J., and Scharfman. 3,058,049
Rapuano, Robert A. 3,030,501.
Rawding, Burton R. Re. 25,119.
Rawding, Burton R. 3,044,290.
Redgrift, Harry F. 3,020,635.
Ricker, Harrington. 3,029,386.
Rizzi, Peter A., and Shaw. 3,058,072.
Rosen, Harold A. 3,029,427.
Saunders, Norman B. 3,036,252.
Schall, Louis H., and Winsor. 3,020,447.
Schloemann, Ernst F. R. A., and Sirvetz. 3,066,355.
Segerstrom, Carl A. 3,040,311.
Shelton, Earl J., Jr. 3,027,521.
Sirvetz, Marshall H. 3,015,788.
Skowron, John F., Haynes, and Smullin. 3,069,588.
Skowron, John F., and Winsor. 3,015,750.
Smith, Charles G. 3,023,091.
Stutsman, Paul W. 3,065,371.
Stutsman, Paul W. 3,065,372.
Taylor, Hugh P. 3,015,767.
Taylor, Hugh P. 3,049,631.
Tulmin, Raymond P., and Caithness. 3,027,480.
Turner, Edwin E. 3,065,463.
Warner, Gerald L. 3,017,581.
Wiesner, Jerome B. 3,036,301.
Wimberly, Floyd T. 3,065,465.
Winsor, Donald L. 3,027,488.

Rayward, William C. : *See*—
Ansell, Sidney C., Booth, Brown Franklin, and Rayward. 3,056,916.

Razis, Andre, to Societe d'Etudes et de Brevets S.A. Composite magnetic recorder device. 3,070,322, 12–25–62, Cl. 242—55.13.

Re, Frank M. : *See*—
Belisle, Adelard J., Allyn, and Re. 3,058,774.
Belisle, Adelard J., Allyn, and Re. 3,069,201.

Rea, Homer E. : *See*—
Schaeffer, William D., and Rea. 3,020,123.

Rea, Homer E., Jr. : *See*—
Schaeffer, William D., and Rea. 3,043,893.

Rea Magnet Wire Co., Inc. : *See*—
Heckel, Hermann C. N., and Jefferson. 3,015,686.
Heckel, Hermann C. N., and Jefferson. 3,018,321.
Heckel, Hermann C. N., and Jefferson. 3,033,917.
Heckel, Hermann C. N., and Jefferson. 3,035,115.
Toulmin, Harry A., Jr. 3,028,446.
Wheatley, Robert L. 3,021,092.
Wheatley, Robert L., and Heckel. 3,030,257.

Rea, Wilton T., and A. W. Roberts, to Bell Telephone Laboratories, Inc. Transmission system-selection by permutation of parity checks. 3,064,080, 11–13–62, Cl. 178—23.

Reach, Roy W., Jr., to Minneapolis-Honeywell Regulator Co. Electrical pulse amplifying and reshape apparatus. 3,049,629, 8–14–62, Cl. 307—88.5.

Reach, Roy W., Jr., to Minneapolis-Honeywell Regulator Co. Synchronous logical circuit. 3,069,566, 12–18–62, Cl. 307—88.5.

Reach, Roy W., and W. M. Kahan, to Minneapolis-Honeywell Regulator Co. Information handling apparatus. 3,063,036, 11–6–62, Cl. 340—172.5.

Reach, Roy W., Jr., E. T. Johnson, and N. M. Lourie, to Minneapolis-Honeywell Regulator Co. Current regulating circuit for switching memory elements and the like. 3,064,140, 11–13–62, Cl. 307—88.5.

Reach, Walter R. Apparatus for baking edible products. 3,026,824, 3–27–62, Cl. 107—57.

Reactor Centrum Nederland : *See*—
Wind, Jaap. 3,052,504.

Read, Charles E. : *See*—
Schmidt, Charles J., Read, and Wehring. 3,016,049.

Read, Charles E., to Monroe Auto Equipment Co. Implement lift draft control. 3,038,545, 6–12–62, Cl. 172—239.

Read, Chester L. : *See*—
Kant, Fred H., Baeder, Hinlicky, and Read. 3,043,770.

Read, Chester L., P. J., to Esso Research and Engineering Co. Producing and refracating oils by irradiation. 3,043,759, 7–10–62, Cl. 204—154.

Read, Dale W., to Ontario Research Foundation. Process for the manufacture of guaiacol. 3,057,927, 10–9–62, Cl. 260—613.

Read, Douglas E., W. B. Cranford, F. W. Major, and R. E. Smith, to Canadian International Paper Co. Consistency regulator. 3,057,187, 10–9–62, Cl. 73—61.

Read, Frank O., E. H. D. Carman, H. E. Cross, and A. T. Moir, to The Consolidated Gold Fields of South Africa Ltd. Granular ion exchange process for pulp treatment. 3,062,738, 11–6–62, Cl. 210—24.

Read, James L. : *See*—
Mihalakis, Agis I., Read, and Curtin. 3,063,339.

Read, John A. : *See*—
Drain, James A., Read, and Gordon. 3,023,044.

Read, John A., and J. E. Calmusky, to Joy Mfg. Co. Automatic bit grinder. 3,058,267, 10–16–62, Cl. 51—35.

Read, Leland B., to ACF Industries, Inc. Fuel circuits for air-bled carburetor. 3,030,085, 4–17–62, Cl. 261—41.

Read, Leland B., to ACF Industries, Inc. Fuel mixture control for internal combustion engines. 3,062,448, 11–6–62, Cl. 236—93.

Read, Ralston B., Jr. : *See*—
Dutcher, Ray M., Read, and Litsky. 3,060,094.

Read, Robert C. Mobile apparatus for lancing molten mixtures. 3,063,699, 11–13–62, Cl. 266—34.

Read, Robert L. Water circulating system for cleaning swimming pools. 3,018,491, 1–30–62, Cl. 4—172.

Read, Thane. Bypass type insert plug for body passageway. 3,042,021, 7–3–62, Cl. 128—1.

Read, Thane. Spherical type insert plug for body passageway and tool therefor. 3,042,030, 7–3–62, Cl. 128—127.

Read, Thomas I. : *See*—
Rasero, Lawrence J., and Read. 3,067,484.

Reade, George : *See*—
Econom, John J., Evans, and Reade. 3,028,943.

Reader, Philip : *See*—
Hall, Dennis S., and Reader. 3,024,482.

Reading, Edward H., to Personal Products Corp. Measuring device for softness tester for sheet material. 3,026,726, 3–27–62, Cl. 73—159.

Reading, John H. Boil-in-the-wrapper product and involved wrapping material. 3,038,811, 6–12–62, Cl. 99—171.

Reading, Ralph R. Spray device. 3,026,045, 3–20–62, Cl. 239—143.

Reading, Walter J. Egg counters. 3,022,004, 2–20–62, Cl. 235—98.

Reading, Walter J. Automatic egg orientors. 3,024,889, 3–13–62, Cl. 198—33.

Reading, Walter J. Egg handling device. 3,060,660, 10–30–62, Cl. 53—246.

Reading, Walter J. Egg candler. 3,060,794, 10–30–62, Cl. 88—14.8.

Ready, Harold R. : *See*—
Brockway, Charles E., and Ready. 3,065,223.

Ready Hung Door Mfg. Co. of Southern California, Inc. : *See*—
Ramsey, Chando B. 3,032,837.

Ready Metal Mfg. Co. : *See*—
Radek, John R. 3,015,399.

Ready Mixed Concrete Ltd. : *See*—
Gresty, Fred. 3,053,044.

Reahard, Daniel F., to The H. O. Canfield Co. Suction cleaner hose 3,067,083, 12–4–62, Cl. 156—144.
Realisations Ultrasoniques, Societe: *See*—
Renaut, Jean-Jacques, and Dory. 3,052,115.
Renaut, Paul. 3,029,356.
Renaut, Paul. 3,050,990.
Renaut, Paul. 3,069,574.
Real-Reel Corp., The: *See*—
Dunn, Richard G. 3,062,368.
Ream, Robert R., to Schick Inc. Adjustable multiple shaving head assembly for electric shavers. 3,056,198, 10–2–62, Cl. 30—43.
Ream, Vincent H.: *See*—
Poundstone, William N., Ream, and Jones. 3,039,827.
Reaney, David W.: *See*—
Reaney, Warford A. and D. W. 3,021,127.
Reaney, Warford A. and D. W. Rotary kiln. 3,021,127, 2–13–62, Cl. 263—32.
Reardon, Floyd L. Fire hydrant marking device. 3,044,435, 7–17–62, Cl. 116—144.
Reardon, James A., and E. A. Jensen. Cover for the beds of pick-up trucks. 3,069,199, 12–18–62, Cl. 296—100.
Reardon, John P., and R. H. Damon, Jr., to Fairbanks, Morse & Co. Magnetic cut-off for scales. 3,050,865, 10–2–62, Cl. 200—56.
Reardon, Patrick H., to The Mitchel-Tyler Co. Rolled edge metal containers, method and apparatus for making same. 3,019,833, 2–6–62, Cl. 153—2.
Reaser, Clinton W. Sod plug cutting machine. 3,022,833, 2–27–62, Cl. 172—19.
Reaser, Warren E., to Sun Tool and Machine Co. Automatic center-edge grinder. 3,023,548, 3–6–62, Cl. 51—101.
Reash, Clair W.: *See*—
Fritz, William H., Potter, and Reash. 3 062,986.
Reason, Richard E., to Taylor, Taylor & Hobson Ltd. Surface testing apparatus. 3,025 700. 3–20–62, Cl. 73—105.
Reason, Richard E., to Taylor, Taylor & Hobson Ltd. Apparatus for measuring or indicating the roughnesses or undulations of a surface. 3,025,701, 3–20–62, Cl. 73—105.
Reasor, George A.: *See*—
Henry, John E., and Reasor. 3,069,409.
Reaves, Billy M.: *See*—
Coker, Fitzlee H., and Reaves. 3,066,539.
Reaves, Edward G. Screw-in fluorescent lighting fixture. 3,059,137, 10–16–62, Cl. 313—204.
Reaves, John H., and J. F. Walton, to Elcor, Inc. Wide band direct coupled amplifier. 3,046,489, 7–24–62, Cl. 330—199.
Reavis, Charles F. Collapsible sitz bath. 3,066,312, 12–4–62. Cl. 4—7.
Reavis, James G., J. A. Leary, and W. J. Maraman, to United States of America, Atomic Energy Commission. Method for obtaining plutonium metal from its trichloride. 3,049,423, 8–14–62, Cl. 75—84.1.
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Reay, Walter H., B. F. Street, and R. W. King, to Shell Oil Co. Olefin polymerization. 3,056,769, 10–2–62, Cl. 260—93.7.
Rebenstock, August: *See*—
Neugebauer, Wilhelm, Heiss, Uhlig, and Rebenstock. 3,028,804.
Neugebauer, Wilhelm, Sus, and Rebenstock. 3,050,388.
Neugebauer, Wilhelm, Sus, and Rebenstock. 3,061,429.
Neugebauer, Wilhelm, Sus, and Rebenstock. 3,062,644.
Schmidt, Maximilian P., Neugebauer, and Rebenstock. 3,046,131.
Rebernak, Adolph, to Martin-Marietta Corp. Foldable compression mop. 3,038,188, 6–12–62, Cl. 15—119.
Rebikoff, Dimitri I., to Loral Electronics Corp. Control system for submarine vessel. 3,063,394, 11–13–62, Cl. 114—16.
Rebuffoni, Martin: *See*—
Steinert, Emil F., and Rebuffoni. 3,069,614.
Steinert, Emil F., Rebuffoni, Pettit, and Cossaboom. 3,058,031.
Rebuffoni, Martin, to Westinghouse Electric Corp. Welding apparatus and method of welding. 3,018,361, 1–23–62, Cl. 219—131.
Rebut, Paul, to Societe Bodin, Girin & Cie. Tissus Industriels. Tubular members provided with corrugated walls. 3,044,497, 7–17–62, Cl. 138—121.
Re Casino, Frank P., to Congoleum-Nairn Inc. Counter and stacker. 3,061,066, 10–30–62. Cl. 198—30.
Recca, Pasquale F., O. W. Swenson, and W. V. Johnson, Jr., to The Western Union Telegraph Co. Loop gate transmitter. 3,033,925, 5–8–62, Cl. 178—17.
Recherche et Industrie Therapeutiques: *See*—
Van Dijck, Paul, and Eyssen. 3,017,272.
Recherches et Etudes Electroniques et Mecaniques, R.E.T.E.M.: *See*—
Guiot, Maurice. 3,036,564.
Lucien, René. 3,031,847.
Lucien, René. 3,032,297.
Recherches Etudes Production R.E.P., Société à Responsabilite Limitee: *See*—
Boulet, Georges. 3,051,470.
Lucien, Rene. 3,016,111.
Lucien, Rene. 3,025,867.
Lucien, Rene. 3,042,058.
Lucien, René. 3,054,416.
Lucien, René. 3,054,582.
Lucien, Rene. 3,062,235.
Lucien, Rene. 3,065,929.
Recherches et Propagande Scientifiques: *See*—
Joullie, Maurice, Laurre, Maillard, and Muller. 3,033,882.
Rechter, Harold L.: *See*—
Griffith, James S., Olsen, and Rechter. 3,041,190.
Rechtin, Eberhardt C., deceased, by The First National Bank of Beaumont, executor, to Bethlehem Steel Co. Jacking apparatus for tubular piles and caissons. 3,058,189, 10–16–62, Cl. 24—263.
Reckenbeil, Kenneth O.: *See*—
Ardia, Vincent H., and Reckenbeil. 3 036,174.
Reckengel, Frederick W., to The Schatz Mfg. Co. Method of producing and assembling antifriction bearings. 3,054,164, 9–18–62, Cl. 29—148.4.
Reckstadt, Volkmar: *See*—
Meyer, Herbert, and Reckstadt. 3,036,212.
Recob, Charles R., Sr.: *See*—
Nemire, Richard W., and Recob. 3,058,713.
Recoque, Alice M.: *See*—
Raymond, Francois H., Richard, Recoque, and Brodin. 3,058,098.
Recourt, Johannes C. A.: *See*—
Plat, Anke, and Recourt. 3,015,796.
Rector, Harley R. Bow maker. 3,061,153, 10–30–62, Cl. 223—46.
Rector, Laurence L., to Rector Well Equipment Co., Inc. Valved tubing hanger. 3,043,371, 7–10–62, Cl. 166—86.
Rector Well Equipment Co., Inc.: *See*—
Rector, Laurence L. 3,043,371.
Red, Harold V., to Borg-Warner Corp. Clutch. 3,017,003, 1–16–62, Cl. 192—68.
Red Devil Tools: *See*—
Echikson, Elchanan. 3,018,497.
Red Jacket Mfg. Co.: *See*—
Patterson, Glenn A., and Deters. 3,037,669.
Red Line Chemicals of Canada Ltd.: *See*—
Linder, William H. R. 3,059,858.
Red Mill Co.: *See*—
Giepen, Hubert M. 3,068,576.
Red Rope Stationery Industries, Inc.: *See*—
Minkow, Julius. 3,041,944.
Reda, Edward E. Temperature warning system. 3,028,586, 4–3–62, Cl. 340—227.
Redden, Thomas K., to General Electric Co. Method for processing of refractory metals. 3,034,934, 5–15–62, Cl. 148—11.5
Reddi, Mullapudi M., to The Dole Valve Co. Pneumatic fluid control valve. 3,067,771, 12–11–62, Cl. 137—494.
Reddick, John A., to Anderson, Clayton & Co. Method of and apparatus for measuring the length of fibers. 3,039,-305, 6–19–62, Cl. 73—159.
Reddick, John A., E. E. Berkley, and E. J. Jennings, Jr., to Anderson, Clayton & Co. Method of and apparatus for measuring fiber permeability. 3,039,293, 6–19–62, Cl. 73—38.
Reddie, William A., and E. R. Werlein, to Magnet Cove Barium Corp. Drilling and completion fluid. 3,034,983, 5–15–62, Cl. 252—8.5.
Reddie, William A., and E. R. Werlein, to Magnet Cove Barium Corp. Drilling and completion fluid. 3,061,542, 10–30–62, Cl. 252—8.5.
Reddie, William A., and E. R. Werlein, to Magnet Cove Barium Corp. Oil-in-water emulsion drilling fluid. 3,062,-740, 11–6–62, Cl. 252—8.5.
Redding, Albert, Jr.: *See*—
Graham, Frank S., Komor, and Redding. 3,046,604.
Redding, Albert, Jr., to U.S. Electrical Motors, Inc. Submersible motor structure. 3,050,645, 8–21–62, Cl. 310—87.
Redding, Albert P.: *See*—
Duncan, Garnett C., Lee, Lucero, and Redding. 3,040,629.
Redding Edward R.: *See*—
Peay, Paul W., Reed, and Redding. 3,040,143.
Redding, Robert J., to Evershed & Vignoles Ltd. Electrical measuring instruments. 3,056,082. 9–25–62, Cl. 324—62.
Redding, Robert J., and S. G. Warder, to Evershed & Vignoles Ltd. Electrical circuit having direct current voltage output proportional to a variable direct current. 3,058,066, 10–9–62, Cl. 328—26.
Redding, Vernon L.: *See*—
Clifford, Edward L., and Redding. 3,059,718.
Reddi-Wip, Inc: *See*—
Morgan, Harry A., Jr. 3,050,914.
Reddie, Victor L., K. H. Hoppmann, and S. F. Staples. Apparatus for dual image projection upon a single screen. 3,040,622. 6–26–62, Cl. 88—24.
Reddy, Virgin C.: *See*—
Hoffman, Carl S., and Reddy. 3,046,954.
Redel, Joseph, to Chimie et Atomistique. New derivatives of trioxo-2,4,6-piperidine and the process of preparing same. 3,048,590. 8–7–62, Cl. 260—281.
Redfern, John T., and G. M. Coleman, to United States of America, Navy. Electrical phase shifter. 3,017,574, 1–16–62, Cl. 324—89.

Redfern, William D. Method for stirring electric-current-conducting melts in furnaces, mixers and holders. 3,020,323, 2–6–62, Cl. 13—5.

Redfield, George E., deceased, by E. S. Nesenger, administratrix, to Radio Corp. of America. Recording and reproducing apparatus. 3,027,111, 3–27–62, Cl. 242—55.13.

Redgrift, Harry F., to Raytheon Co. Soldering methods. 3,020,635, 2–13–62, Cl. 29—495.

Redhead, Paul A., to National Research Council. Ionization vacuum gauges. 3,051,868, 8–28–62, Cl. 315—108.

Redhead, Paul A., to National Research Council. Desorption spectrometers. 3,068,402, 12–11–62, Cl. 324—33.

Redick, David C., G. L. Cameron, R. H. Bertsche, Jr., and W. W. Yahn, to General Motors Corp. Engine starter. 3,020,771, 2–13–62, Cl. 74—7.

Redi-Knot Corp.: *See*—
Caparosa, Ralph J. 3,052,937.

Redi-Knot Inc.: *See*—
Caparosa, Ralph J. 3,069,689.

Redin, Gunnar S.: *See*—
Fedrick, James L., Redin, and Shepherd. 3,048,519.

Reding, John C., to The Dow Chemical Co. Process for the preparation of magnesium-thorium alloy. 3,026,196, 3–20–62, Cl. 75—122.7.

Reding, John N., Jr., to The Dow Chemical Co. Apparatus for condensation of a metal vapor. 3,042,511, 7–3–62, Cl. 75—10.

Redka, Henry R. Footbath. 3,055,357, 9–25–62, Cl. 128—32.

Red Lake County State Bank: *See*—
Schultz, Matthew J., and W. L. 3,029,860.

Redlich, Otto, and M. N. Papadopoulos, to Shell Oil Co. Production of sulfur. 3,065,059, 11–20–62, Cl. 23—225.

Redlinger, Jacob F., to FMC Corp. Method of hydraulic fracturing in underground formations. 3,018,095, 1–23–62, Cl. 262—3.

Redman, Horace E., and T. O. Sistrunk, to Ethyl Corp. Preparation of alkyl aluminum halide products. 3,028,408, 4–3–62, Cl. 260—448.

Redman, Howard E.: *See*—
Kalning, Frederick E., and Redman. 3,031,985.
Kalning, Frederick E., and Redman. 3,062,161.

Redman, William J., to United States Steel Corp. Pump-valve cover. 3,051,348, 8–28–62, Cl. 220—39.

Redmond, Robert J.: *See*—
Linzell, Lee L., Redmond, and Isquith. 3,059,506.

Redmond, William G., and W. G. Stanfield, to Ling-Temco-Vought, Inc. Servo system. 3,060,362, 10–23–62, Cl. 318—489.

Redniss, Alexander. Apparatus for the continuous production of hydrogen halides. 3,063,815, 11–13–62, Cl. 23—225.

Red-Ray Mfg. Co., Inc.: *See*—
McGlaughlin, Frederick G. 3,029,865.

Red Star Yeast and Products Co.: *See*—
Dale, Robert F., Backus, and Kezell. 3,020,208.

Redway, George F. Smoke detector. 3,042,907, 7–3–62, Cl. 340—237.

Redwing Ltd.: *See*—
Newman, Herbert G. A., and Hammond. 3,050,735.

Reeber, Rudolf, and H. Wenz, to G. M. Pfaff AG. Means for controlling the stitch width on zig-zag sewing machines. 3,037,471, 6–5–62, Cl. 112—158.

Reeber, Rudolf, and H. Wenz, to G. M. Pfaff, A.G. Seam formation indicator apparatus for sewing machines. 3,066,623, 12–4–62, Cl. 112—158.

Reeber, Rudolf, R. Dobner, and S. Astrupgaard, to G. M. Pfaff, A.G. Lock stitch post sewing machine. 3,066,625, 12–4–62, Cl. 112—214.

Reece, Charles H.: *See*—
Heslop, Robert N., and Reece. 3,065,191.

Reece Corp., The: *See*—
Reece, Franklin A. 3,049,209.

Reece, Franklin A., to The Reece Corp. Stop motion. 3,049,209, 8–14–62, Cl. 192—144.

Reece, Herbert A. Air supply system for cupolas. 3,057,615, 10–9–62, Cl. 266—30.

Reece, Judson B.: *See*—
Jones, William H., and Reece. 3,054,896.

Reed, Alan: *See*—
Remke, John L., Reed, and Deam. 3,046,512.

Reed, Albert F., and Co. Ltd.: *See*—
Humphrey, Leslie F. 3,054,549.

Reed, Bayard C.: *See*—
Glass, Marvin I., and Reed. 3,050,902.

Reed, Bayard C., and L. Kripak, to M. I. Glass. Toy. 3,040,475, 6–26–62, Cl. 46—74.

Reed & Carnick: *See*—
Singer, Arnold J. 3,043,745.

Reed Cartons Ltd.: *See*—
Filmer, Frank L., and Kirby. 3,028,067.

Reed, Charles A., and R. E. Rudd; said Reed assor. to United States of America, Army. Retriever. 3,044,567, 7–17–62, Cl. 180—45.

Reed, Charles B. Apparatus for improving pollination of blossoms. 3,069,702, 12–25–62, Cl. 6—4.

Reed, Charles L., Jr., to Continental Mfg. Co. Plug valve. 3,066,909, 12–4–62, Cl. 251—309.

Reed, Clair S., to Van Dresser Specialty Corp. Sectional insulator and shield assembly. 3,024,475, 3–13–62, Cl. 5—354.

Reed, Clair S., to Van Dresser Specialty Corp. Insulator strip. 3,024,476, 3–13–62, Cl. 5—354.

Reed, Clair S., to Van Dresser Specialty Corp. Reinforced extensible insulator. 3,024,477, 3–13–62, Cl. 5—354.

Reed, Clair S., to Van Dresser Specialty Corp. Insulator for spring assemblies. 3,024,565, 3–13–62, Cl. 45—138.

Reed, Claude A. Apparatus for processing frozen comestibles. 3,061,279, 10–30–62, Cl. 259—2.

Reed Corrugated Cases Ltd.: *See*—
Humphrey, Leslie F. 3,032,176.

Reed, Cyril Y.: *See*—
Mills, Walter P., Parsons, and Reed. 3,057,673.

Reed, David S.: *See*—
Hurme, Herbert J., Ketterer and Reed. 3,029,758.

Reed, Donald F.: *See*—
Reed, Stanley E. and D. F., and Deady. 3,048,678.

Reed, Donald G.: *See*—
Hiserich, Charles A., and Reed. 3,031,644.

Reed, Edgar, 2nd. Drill point screw having interrupted leading end threads formed by a flat chordal surface. 3,045,523, 7–24–62, Cl. 85—47.

Reed, Edwin E., to Phillips Petroleum Co. Liquid flow control system. 3,047,037, 1–16–62, Cl. 222—318.

Reed, Edwin E., to Phillips Petroleum Co. Method and apparatus for testing formations. 3,035,440, 5–22–62, Cl. 73—151.

Reed, Frank J., to Armour Research Foundation of Illinois Institute of Technology. Equipment for use with magnetic tape records. 3,029,032, 4–10–62, Cl. 242—55.12.

Reed, George C.: *See*—
Herron, Robert H., Reed, and Roth. 3,021,592.

Reed, George G., Jr., and E. J. Beer, to R-N Corp. Alkali metal salts and base additions in nontitaniferous ore reductions. 3,068,090, 12–11–62, Cl. 75—33.

Reed, George H., and J. E. Ott, to Acme Steel Co. Unreeler. 3,052,425, 9–4–62, Cl. 242—105.

Reed, George R., to Dana Corp. Flexible coupling. 3,068,663, 12–18–62, Cl. 64—9.

Reed, Herbert B., and W. J. Ross, to Raybond Electronics, Inc. Carton gluing apparatus. 3,027,443, 3–27–62, Cl. 219—10.69.

Reed, Herbert B., Jr., and M. Stimler, to United States of America, Navy. Hydraulic phase discriminator. 3,023,397, 2–27–62, Cl. 340—15.

Reed, James A.: *See*—
Nickerson, David L., and Reed. 3,068,522.

Reed, James C., ¼ to W. C. Tennesen, ¼ to M. A. Lovik, and ¼ to G. E. La Pore. Particulate material dispenser means. 3,018,924, 1–30–62, Cl. 222—48.

Reed, Janet J. Patient release proof positioning means. 3,042,031, 7–3–62, Cl. 128—134.

Reed, John: *See*—
Heeren, Vernon L., and Reed. 3,036,279.

Reed, John J., to St. Joseph Lead Co. Leakproof valve. 3,027,700, 4–3–62, Cl. 53—266.

Reed, John W., Jr., Halvorsen, P. Hold, and W. R. Miller, to Farrel-Birmingham Co., Inc. Railroad wheel mounting press. 3,050,837, 8–28–62, Cl. 29—208.

Reed, Joseph: *See*—
Gray, John W., King, and Reed. 3,061,830.

Reed, Joseph E. Method and apparatus for treating sewage. 3,034,456, 5–15–62, Cl. 110—8.

Reed, Kenneth G., and W. H. Nicolson, to Imperial Chemical Industries Ltd. Rocket having means for rendering it visible over its operational range. 3,031,843, 5–1–62, Cl. 60—35.6.

Reed and Knaus, Inc.: *See*—
Knaus, Lionel. 3,027,977.

Reed, Lester J., and I. C. Gunsalus, to Research Corp. Lipoic acid and derivatives. 3,049,549, 8–14–62, Cl. 260—327.

Reed, Linwood L.: *See*—
Hufman, Levi J., and Reed. 3,052,484.

Reed, Luis F. Motor vehicle stabilizing device. 3,020,062, 2–6–62, Cl. 280—112.

Reed, Nelson A., and W. D. Blackford. Hoist. 3,032,205, 5–1–62, Cl. 212—8.

Reed, Newton M.: *See*—
Catlin, Robert T., and Reed. 3,041,615.
Walker, Merle H., Reed, and Catlin. 3,054,110.

Reed, Raymond E., to The Gillette Co. Hair waving device. 3,019,796, 2–6–62, Cl. 132—9.

Reed Research Inc.: *See*—
Cook, George W. 3,054,053.
Reed, Stanley F. 3,052,168.
Reed, Stanley F., and Deady. 3,050,279.

Reed, Robert D.: *See*—
Zink, John S., Jr., Duncan, Edwards, and Reed. 3,033,273.

Reed, Robert D., to John Zink Co. Apparatus for controlling flow of gases. 3,055,417, 9–25–62, Cl. 158—99.

Reed, Robert D., to John Zink Co. Gaseous fuel burner. 3,061,001, 10–30–62, Cl. 158—116.

Reed, Robert D., to John Zink Co. Directional firing spider type fuel burner. 3,062,275, 11–6–62, Cl. 158—116.

Reed, Robert D., to John Zink Co. Apparatus for controlling flow of gases. 3,064,956, 11–20–62, Cl. 261—124.

Reed Roller Bit Co.: *See*—
Eckman, Richard E. 3,059,620.
Elliott, Charles H., and Eckman. 3,018,866.
Gardner, Jack R. 3,017,708.
Kucera, Clement M. 3,018,835.
Livermont, Frank W. 3,039,340.
Livermont, Frank W. 3,050,978.
Peter, Robert G., and Kucera. 3,018,836.

Reed Roller Bit Co.: *See*—Continued
Rees, Shropshire E. 3,037,401.
Sigler, Richard J. 3,017,709.
Sigler, Richard J., and Schnellbacher. 3,017,707.
Sigler, Richard J., and Schnellbacher. 3,017,719.
Sigler, Richard J., and Schnellbacher. 3,032,368.
Reed, Stanley F.: *See*—
Peay, Paul W., Reed, and Redding. 3,040,143.
Reed, Stanley F., to Reed Research Inc. Automatic camera. 3,052,168, 9–4–62, Cl. 95—10.
Reed, Stanley F. and D. F., and E. F. Deady, to Space Components Inc. Magnetic relays. 3,048,678, 8–7–62, Cl. 200—93.
Reed, Stanley F., and E. F. Deady, to Reed Research, Inc. Heat insulating screen. 3,050,279, 8–21–62, Cl. 245—11.
Reed, Theodore L.: *See*—
Byer, Marshall, O'Leary, and Reed. 3,040,213.
Reed, Theron J. Forced feed for vertical screw conveyor augers. 3,050,177, 8–21–62, Cl. 198—64.
Reed, Theron J. Cattle feed distributing apparatus. 3,051,294, 8–28–62, Cl. 198—65.
Reed, Theron J. Variable feed auger for delivery from storage bins. 3,057,522, 10–9–62, Cl. 222—285.
Reed, Theron J., to P. W. Sindlinger, and J. R. Nichols. Bin unloading system and flexible conveyor used therein. 3,064,-830, 11–20–62, Cl. 214—17.
Reed, Thomas B., to Union Carbide Corp. Multiple purpose arc torch apparatus. 3,030,490, 4–17–62, Cl. 219—75.
Reed, Thomas F., to United States Steel Corp. Method of smelting titaniferous iron ore. 3,020,150, 2–6–62, Cl. 75—41.
Reed, Thomas F., to United States Steel Corp. Method and apparatus for controlling feed to shaft furnace. 3,050,299, 8–21–62, Cl. 263—29.
Reed, Willard F. Automatic feeding device for poultry. 3,024,765, 3–13–62, Cl. 119—52.
Reed, William A.: *See*—
Johnson, Clarence L., and Reed. 3,026,773.
Reed, William A., and S. R. Crooks, to Republic Steel Corp. Process of preparing a ferrous alloy-type powder for powder metallurgy and of preparing high strength articles therefrom. 3,067,032, 12–4–62, Cl. 75—211.
Reeder, Earl, and L. H. Sternbach, to Hoffmann-La Roche Inc. Benzodiazepine compounds. 3,051,701, 8–28–62, Cl. 260—239.
Reeder, Harry E., Jr. Night fishing device. 3,064,122, 11–13–62, Cl. 240—7.5.
Reeder, Richard D., to The Alliance Mfg. Co., Division of Consolidated Electronic Industries Corp. Dispenser container. 3,032,235, 5–1–62, Cl. 221—167.
Reeder, Seth D., to United States of America, Atomic Energy Commission. Method and apparatus for measuring radiation. 3,030,510, 4–17–62, Cl. 250—83.3
Reedy, Albert J., and J. D. Cawley, to Eastman Kodak Co. Oxygenated polyene aldehydes. 3,068,292, 12–11–62, Cl. 260—598.
Reeg, Cloyd P., and F. C. Price, to Union Oil Co. of California. Hydrorefining of heavy mineral oils. 3,027,317, 3–27–62, Cl. 208—211.
Reeh, Olaf. Apparatus for shielded arc welding. 3,042,791, 7–3–62, Cl. 219—75.
Reek, Robert J.: *See*—
Biggam, Frank D., and Reek. 3,033,928.
Reel, Leo D.: *See*—
Sinclair, Stuart W. 3,024,058.
Reel, Leo D., and S. W. Sinclair; said Sinclair assor. to said L. D. Reel. Apparatus for engaging and moving elongated tubular objects such as pipe and the like of varying lengths and diameters. 3,061,353, 10–30–62, Cl. 294—67.
Reenes Brothers, Inc.: *See*—
Dickey, John W. 3,057,766.
Reepmeyer, Herman J., to United States of America, Army. Safety interlock for the firing mechanism of a cannon. 3,044,364, 7–17–62, Cl. 89—27.
Rees, Chandler D.: *See*—
Cook, Calvin S., Hirsch, Lohr, and Rees. 3,040,461.
Rees, Frank X.: *See*—
Barker, William M., and Rees. 3,056,068.
Rees, Richard W., to Shawinigan Chemicals Ltd. Epoxy derivatives of unsaturated polyvinyl chloride. 3,050,507, 8–21–62, Cl. 260—87.1.
Rees, Richard W., to Shawinigan Chemicals Ltd. Hydrogenated derivatives of unsaturated polyvinyl chloride. 3,053,821, 9–11–62, Cl. 260—87.1.
Rees, Richard W., to Shawinigan Chemicals Ltd. Process for preparing emulsion paints by polymerizing monomer in presence of monomer. 3,054,762, 9–18–62, Cl. 260—17.
Rees, Richard W., to Shawinigan Chemicals Ltd. Preparation of water-soluble polyethylene glycol copolymers in aqueous medium. 3,058,940, 10–16–62, Cl. 260—29.6.
Rees, Shropshire E., to Reed Roller Bit Co. Self aligning attachment for countersinking apparatus. 3,037,401, 6–5–62, Cl. 77—2.
Rees, Vernon C., to Johns-Manville Fiber Glass Inc. Apparatus for packaging stranded material. 3,051,402, 8–28–62, Cl. 242—18.
Rees, William H.: *See*—
Collins, George E., and Rees. 3,034,940.
Reesby, Carl E., to Halliburton Co. Surface recording drill stem testing combination. 3,041,875, 7–3–62, Cl. 73—155.
Reesby, Carl E., and O. R. Smith, to Halliburton Co. Logging tool coupling apparatus. 3,054,848, 9–18–62, Cl. 174—89.
Reese, Elmer E., to General Motors Corp. Windshield wiper arms and locking devices therefor. 3,048,430, 8–7–62, Cl. 287—53.
Reese, Glenn A.: *See*—
Poinsot, William B., and Reese. 3,053,951.
Reese, Glenn A., to Magnavox Co. Switch assembly. 3,051,806, 8–28–62, Cl. 200—90.
Reese, Glenn A., to The Magnavox Co. Transducing system. 3,069,682, 12–18–62, Cl. 346—107.
Reese, Henry W., ¼ to G. S. Pfaus, ¼ to R. A. Posner, and ½ to J. Stein. Vaginal tablet. 3,062,715, 11–6–62, Cl. 167—58.
Reese, James H.: *See*—
Detwiler, Harry S., Reese, and Serlemitsos. 3,015,206.
Reese, James H., to Hamilton Watch Co. Electric watch. 3,016,685, 1–16–62, Cl. 58—28.
Reese, James H., to Hamilton Watch Co. Balance wheel coil mounting assembly. 3,058,292, 10–16–62, Cl. 58—28.
Reese, James H., and H. S. Detwiler, to Hamilton Watch Co. Balance wheel actuating mechanism. 3,034,285, 5–15–62, Cl. 58—28.
Reese, Johannes, and B. Brähler, to Chemische Werke Albert. Thiothionophosphoric esters and their production. 3,023,-209, 2–27–62, Cl. 260—250.
Reese Metal Weather Strip Co.: *See*—
Kapaun, Herbert L., and Ellingson. 3,030,674.
Reese, Richard, and I. L. Wissmiller, to Chicago Bridge & Iron Co. Primary seal for floating roofs. 3,055,533, 9–25–62, Cl. 220—26.
Reese, Thomas S., to Di-Noc Chemical Arts, Inc. Transfer for decoration of plastic film. 3,067,054, 12–4–62, Cl. 117—3.4.
Reese, William M. Differential pressure responsive device. 3,050,085, 8–21–62, Cl. 137—779.
Reesen, Jorgen, to Eastman Kodak Co. Adhesive stripe detector. 3,067,646, 12–11–62, Cl. 88—14.
Reeser, Woodrow W. Paper bag rack. 3,055,508, 9–25–62, Cl. 211—51.
Reesman, Randolph W.: *See*—
Bundy, Patrick L., Hook, and Reesman. 3,031,100.
Reesor, Thomas W. Stereo sound system for TV. 3,046,329, 7–24–62, Cl. 178—5.6.
Reetz, Theodor, W. A. Busch, and D. H. Chadwick, to Monsanto Chemical Co. Preparation of esters of trivalent phosphorus acids. 3,057,904, 10–9–62, Cl. 260—461.
Reeve, Edward W. Process for the preparation of dl-threonine. 3,038,007, 6–5–62, Cl. 260—534.
Reeve Electrical Co., Inc., The: *See*—
Cassell, Joseph L. 3,027,554.
Cassell, Joseph L. 3,043,995.
Reeve, John E., to G. Hopkins & Sons, Ltd. Racking machines for filling pressurised casks. 3,032,078, 5–1–62, Cl. 141—62.
Reeve, John E., to G. Hopkins & Sons Ltd. Valves for pressure casks. 3,036,586, 5–29–62, Cl. 137—212.
Reeve, John E., to G. Hopkins & Sons Ltd. Racking heads for filling pressure casks. 3,045,718, 7–24–62, Cl. 141—37.
Reeve, John R., Jr.: *See*—
McCann, Robert E., and Reeve. 3,057,442.
Reeve, Richard J.: *See*—
Woodward, John A., Reeve, and Noah. 3,019,043.
Reeve, Roger M.: *See*—
Hendel, Carl E., Notter, and Reeve. 3,031,314.
Hendel, Carl E., Reeve, and Notter. 3,054,683.
Reeves Brothers, Inc.: *See*—
Erlich, Victor L. 3,049,466.
Lawrence, Kenneth B., and Turck. 3,066,928.
Simpson, Heyward V., and Erlich. 3,052,510.
Reeves, Donald A. Indicating device. 3,029,520, 4–17–62, Cl. 33—172.
Reeves, Edward W., to Fundamental Research, Inc. Syntheses of α-methoxyphenylacetates. 3,038,002, 6–5–62, Cl. 260—473.
Reeves, Herbert M.: *See*—
Hillebrand, Earl D., and Reeves. 3,034,419.
Reeves, Herbert M., to Geo. D. Roper Corp. Operating knob and locking mechanism for burner control valves. 3,035,-567, 5–22–62, Cl. 126—42.
Reeves Instrument Corp.: *See*—
Allen, Alton K., and Zatsky. 3,037,397.
Dosch, Thomas J. 3,044,168.
McCoy, Ramey D., and Meissinger. 3,031,143.
Richman, Peter L. 3,065,428.
Zatsky, Norman C. 3,016,118.
Reeves, John F. Molding method for plastic bodies. 3,028,-284, 4–3–62, Cl. 156—213.
Reeves, John F. Sandwich structure for plastic tanks. 3,038,628, 6–12–62, Cl. 220—9.
Reeves Soundcraft Corp.: *See*—
Adams, Pierrepont, and Knees. 3,042,639.
Reeves, Willard D., ⅛ to C. S. Thomas and ⅛ to S. E. Cross. Poultry head remover. 3,017,660, 1–23–62, Cl. 17—12.
Reeves, Willard D. Rotary fryer. 3,036,513, 5–29–62, Cl. 99—404.
Reeves, Wilson A.: *See*—
Chance, Leon H., and Reeves. 3,038,776.
Reeves, Wilson A., R. M. Perkins, and L. H. Chance, to United States of America, Agriculture. Process of reacting partially swollen cotton textiles with aqueous solutions of specific aldehydes containing acid catalysts to produce wet and dry crease resistance. 3,046,079, 7–24–62, Cl. 8—116.4.

Reeves, Wilson A., C. J. Conner, and L. H. Chance, to United States of America, Agriculture. Silane-silicone mixture, method of producing the mixture; textile treated with the mixture; and method of impregnating textile with the mixture. 3,065,111, 11–20–62, Cl. 117—161.

Ref Mfg. Corp.: *See*—
Dziedziula, Edward J., Pecoraro, and Sinatra. 3,016,930.

Reffel, Donald L., to Pace, Inc. Thermoresponsive switch. 3,051,808, 8–28–62, Cl. 200—138.

Refining, Unincorporated: *See*—
Thurman, Benjamin H. 3,038,486.

Reflectone Electronics, Inc.: *See*—
Brown, Forrest W. 3,023,518.
Simjian, Luther G. 3,043,020.

Reflector-Hardware Corp.: *See*—
Levy, Edward M. 3,015,466.

Reflectotherm, Inc.: *See*—
Mills, Clarence A. 3,027,734.
Mills, Clarence A. 3,045,100.

Regan Forge and Engineering Co.: *See*—
Regan, Joseph E. 3,044,481.

Regan, George P., Sr., and E. N. Hasala, to Regan Industries, Inc. Coating machine and method. 3,031,339, 4–24–62, Cl. 117—101.

Regan Industries, Inc.: *See*—
Regan, George P., Sr., and Hasala. 3,031,339.

Regan, John F., to E. I. du Pont de Nemours and Co. Preparation of fluorocarbon acid fluorides. 3,052,717, 9–4–62, Cl. 260—544.

Regan, John F., to Eagle Lock Corp. Lock construction. 3,065,623, 11–27–62, Cl. 70—77.

Regan, Joseph E., to Regan Forge and Engineering Co. Automatic pressure fluid accumulator system. 3,044,481, 7–17–62, Cl. 137—114.

Regan, Malachy J. Umbrella adapter for folding chair. 3,050,280, 8–21–62, Cl. 248—40.

Regelman, La Rue V.: *See*—
Gartner, Stanley J., and Regelman. 3,023,880.

Regennitter, Henry J. Double plier for inserting gear unit. 3,030,701, 4–24–62, Cl. 29—270.

Regenstein, Joseph, Jr., to Velsicol Chemical Corp. Method and composition for controlling crabgrass. 3,062,636, 11–6–62, Cl. 71—2.3.

Regent Jack Mfg. Co., Inc.: *See*—
Pearne, Frank S. 3,051,224.

Regent Paper Box Co.: *See*—
Herrin, Melvin B. 3,042,192.

Reger, B. J.: *See*—
Courneya, Calice G. 3,020,429.

Reggio, Ferdinando C. Fuel supply system. 3,067,581, 12–11–62, Cl. 60—39.28.

Regie Nationale des Usines Renault: *See*—
Bouchard, Robert G., et al. 3,029,618.
Péras, Lucien. 3,016,155.
Péras, Lucien. 3,024,489.
Péras, Lucien. 3,024,740.
Péras, Lucien. 3,024,886.
Péras, Lucien. 3,025,091.
Peras, Lucien. 3,027,022.
Peras, Lucien. 3,027,978.
Peras, Lucien. 3,028,020.
Peras, Lucien. 3,029,625.
Péras, Lucien. 3,030,854.
Peras, Lucien. 3,034,726.
Péras, Lucien. 3,035,455.
Péras, Lucien. 3,035,674.
Péras, Lucien. 3,035 780.
Péras, Lucien. 3,036,018.
Péras, Lucien. 3,036,846.
Peras, Lucien. 3,037,751.
Peras, Lucien. 3,039,578.
Péras, Lucien. 3,041,689.
Péras, Lucien. 3,042,455.
Peras, Lucien. 3,043,404.
Peras, Lucien. 3,043,414.
Péras, Lucien. 3,045,284.
Péras, Lucien. 3,045,656.
Peras, Lucien. 3,056,017.
Peras, Lucien. 3,057,447.
Peras, Lucien. 3,060 864.
Péras, Lucien. 3,063,621.
Péras, Lucien. 3 063,982.
Peras, Lucien. 3,064,670.
Peras, Lucien. 3,065,761.
Peras, Lucien. 3,067,332.
Péras, Lucien, and Suisse. 3,037,233.
Saives, Leon. 3,038,220.

Regina Corp., The: *See*—
Hart, William D. 3,018,504.
Verhagen, Edward L. 3,026,434.

Regis, Lawrence J., to International Telephone and Telegraph Corp. Astable multivibrator pulse generator circuit. 3,039,065, 6–12–62, Cl. 331—113.

Regis, Lawrence J., and W. S. Richeson, Jr., to International Telephone and Telegraph Corp. Voltage comparator. 3,021,514, 2–13–62, Cl. 340—248.

Regis, Robert, and Hazeltine Research, Inc. Oscillator frequency compensator. 3,047,818, 7–31–62, Cl. 331—66.

Register, James N.: *See*—
Eady, Hilton H. 3,019,523.

Regnell, Carl E., to K. A. O. Friberg. Artificial leg. 3,069,692, 12–25–62, Cl. 3—1.2.

Regnier, Norman J., to Hoffman Electronics Corp. Broad band radio receiver preselector apparatus. 3,022,477, 2–20–62, Cl. 334—77.

Reh, Lothar: *See*—
Schytil, Franz, Reh, Saccardo, and Dal Pozzo. 3,057,680.

Rehberg, Henrietta M.: *See*—
Williams, William J., and Rehberg. 3,018,007.

Rehberg, Richard A.: *See*—
Williams, William J., and Rehberg. 3,018,007.

Rehbock, Herbert, to Cadillac-Jordan G.m.b.H. Piston-operated pressure reservoir. 3,043,340, 7–10–62, Cl. 138—31.

Reheis Co., Inc.: *See*—
Beekman, Stewart M. 3,017,324.

Reher, Helmut, and H. Frerichs, to Telefunken G.m.b.H. Transistorized reproducing amplifier circuitry having feedback. 3,026,380, 3–20–62, Cl. 179—100.2.

Rehfeld, Frederick L. J.: *See*—
Port, John H., Jr., and Rehfeld. 3,058,180.

Rehfeld, George W. Motorcycle with wide tread wheels. 3,016,967, 1–16–62, Cl. 180—30.

Rehfield, Julius: *See*—
Abseck, Stuart, and Rehfield. 3,030,923.

Rehfuss, Caleb, and F. C. Huber, to Allied Chemical Corp. Process for the production of esters. 3,033,895, 5–8–62, Cl. 260—475.

Rehklau, George D., to Ampex Corp. Tape reel. 3,030,045, 4–17–62, Cl. 242—74.

Rehklau, George D., to Ampex Corp. Tape reel hold-down device. 3,053,466, 9–11–62, Cl. 242—68.3.

Rehkugler, Gerhard, to General Motors Corp. Rotary bolt door latch. 3,069,888, 12–25–62, Cl. 70—135.

Rehm, Gustav A., to Springfield Boiler Co. Water level control for boilers. 3,029,797, 4–17–62, Cl. 122—407.

Rehm, Karl, to Telefunken Patentverwertungs G.m.b.H. Conveying device. 3,040,866, 6–26–62, Cl. 198—30.

Rehm, Roy E.: *See*—
D'Amato, Raphael A., and Rehm. 3,033,740.
D'Amato, Raphael A., and Rehm. 3,033,741.
D'Amato, Raphael A., and Rehm. 3,033,742.

Rehman, Irving, and H. C. Gibson. Multi-duty helmet. 3,030,627, 4–24–62, Cl. 2—6.

Rehman, Irving, and D. C. Gibson. Mouthpiece positioning and mounting apparatus. 3,069,511, 12–18–62, Cl. 179—156.

Rehmann, Heinrich, to Wilhelm Baier, K.G. Sliding roofs for automotive vehicles and the like. 3,016,263, 1–9–62, Cl. 296—137.

Rehmann, Heinrich, to Wilhelm Baier, K.G. Support frame arrangement for a slidable vehicle roof panel. 3,066,976, 12–4–62, Cl. 296—137.

Rehmar, Solmon J., and N. L. Liver, to Intrusion-Prepakt, Inc. Process of and material for treating loose porous soil. 3,053,675, 9–11–62, Cl. 106—123.

Rehn, Heinz, to Volgtlander A.G. Film take-up assembly for camera. 3,066,884, 12–4–62, Cl. 242—71.

Rehnberg, Glenn R., and P. E., to Custom Metal Products Corp. Height adjuster for rotary lawn mowers. 3,043,604, 7–10–62, Cl. 280—43.

Rehnberg, Paul E.: *See*—
Rehnberg, Glenn R. and P. E. 3,043,604.

Rehnstrom, Dick L., to Fabriks AB Forslund & Co. Hydraulic pillar-type rotary cranes, particularly for motor trucks. 3,035,711, 5–22–62, Cl. 212—35.

Reib, John C. Material transfer method and apparatus. 3,018,135, 1–23–62, Cl. 302—58.

Reibel, Sidney, R. L. Purdon, and M. Pachuta, to Jervis B. Webb Co. Conveyor trolley with releasable driving dog. 3,044,416, 7–17–62, Cl. 104—172.

Reich, A., & Sons, Inc.: *See*—
Reich, Walter A. 3,043,546.
Reich, Walter A. 3,043,547.

Reich, Bernard: *See*—
Orloff, William, and Reich. 3,068,424.

Reich, Donald A.: *See*—
Benner, Floyd E., Jr., Eisenlohr, and Reich. 3,059,035.

Reich, Elmar: *See*—
Liebherr, Hans, and Reich. 3,053,398.

Reich, Ernst: *See*—
Gaertner, Hans, and Reich. 3,018,155.

Reich, Harold A., to United States Steel Corp. Suspended refractory roof. 3,045,616, 7–24–62, Cl. 110—99.

Reich, Karl M., Maschinenfabrik: *See*—
Dupuy, Andre, and Walliser. 3,049,713.

Reich, Leo: *See*—
Arquette, Gordon J., and Reich. 3,061,458.

Reich, Robert J. Automatic action revolver. 3,049,977, 8–21–62, Cl. 89—154.

Reich, Robert W. Rechargeable flashlight battery and circuit for recharging same. 3,021,468, 2–13–62, Cl. 320—2.

Reich, Robert W., to Jahresuhren-Fabrik G.m.b.H., Aug. Schatz & Sohne. Impelling and pulse control system for electronic pendulum clocks. 3,040,225, 6–19–62, Cl. 318—132.

Reich, Robert W. Radiation detection device. 3,061,724, 10–30–62, Cl. 250—71.5.

Reich, Walter A., to Reich, A. & Sons, Inc. Hanger assembly. 3,043,546, 7–10–61, Cl. 248—215.

Reich, Walter A., to Reich, A. & Sons, Inc. Hanger. 3,043,547, 7–10–62, Cl. 248—317.

Reich, Walter J.: *See*—
Nechtow, Mitchell J., Zimberoff, and Reich. 3,069,081.

Reich, Wilhelm, Maschinenfabrik : *See*—
Heigl, Georg. 3,039,730.
Reichard-Coulston, Inc. : *See*—
Bennetch, Leonard M., West, and Leiner. 3,017,283.
Reiche, Wilhelm, K.-G. Behr, and W. Schacht, to Voigtlander A.G. Photographic one-eye reflex camera. 3,027,819. 4–3–62, Cl. 95—42.
Reichel, Artur, to Ernst Leitz Gesellschaft mit beschrankter Haftung. Spectrometer grating control arrangement. 3,020,794. 2–13–62, Cl. 88—14.
Reichel & Drews, Inc. : *See*—
Johansen, John V., and Stanley. 3,052,073.
Reichel, Frank H., and A. O. Russell, to American Viscose Corp. Apparatus for producing non-fibrous film. 3,056,-164. 10–2–62, Cl. 18—15.
Reichel, Howard G., and S. W. Lis, to Swift & Co. Bacon slicer having adjustable control of group size. 3,015,350. 1–2–62, Cl. 146—94.
Reichel, Karl : *See*—
Sixtus, Klaus, and Reichel. 3,032,503.
Reicheit, Lester O., to Western Electric Co., Inc. Strand break control mechanism. 3,040,512. 6–26–62, Cl. 57—81.
Reichelt, Lester O., to Western Electric Co., Inc. Method of making toroidal coils. 3,047,935. 8–7–62, Cl. 29—155.57.
Reichelt, Lester O., and D. V. Waters, to Western Electric Co., Inc. Cable-distributing mechanism for cable-stranding apparatus. 3,024,588. 3–13–62, Cl. 57—66.5.
Reichenbaum, George, to English Electric Valve Co. Ltd. Method of attaching a semi-conductor device to a heat sink. 3,029,505. 4–17–62, Cl. 29—501.
Reichenecker, Franz, K. Dury, H. Suter, and C.-H. Willersinn, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of esters of β-propionylacrylic acid. 3,027,401, 3–27–62, Cl. 260—483.
Reicheneder, Franz, and K. Dury, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Chlorination of butine-(2)-diol-(1,4). 3,054,739. 9–18–62, Cl. 204—158.
Reichenthal, Jules : *See*—
McCormick, Jerry R. D., Sjolander, Hirsch, and Reichenthal. 3,038,005.
McCormick, Jerry R. D., Sjolander, Hirsch, and Reichenthal. 3,038,328.
Reichert, C., Optische Werke Aktiengesellschaft : *See*—
Humel, Josef. 3,038,374.
Reichert, Hugo, to Olympia Werke Aktiengesellschaft, Firma. Pulse pick-out system. 3,035,187, 5–15–62, Cl. 307—88.5.
Reichert, Hugo, to Olympia Werke A.G. Pulse pick-out arrangement. 3,036,270. 5–22–62, Cl. 328—34.
Reichert, James B., to E. R. Doak. Method of aerodynamically decelerating an aircraft on the ground. 3,052,430, 9–4–62, Cl. 244—110.
Reichert, William G., Jr., and W. P. George, to Fairchild Camera and Instrument Corp. High input impedance Wien bridge oscillator. 3,031,627. 4–24–62, Cl. 331—110.
Reiches, Sol L. Self-starting timing motor and method of starting timing motors. 3,041,513, 6–26–62, Cl. 318—138.
Reichle, Alfred : *See*—
Hofmann, Rudolf, Schmidt, Reichle, and Moosmuller. 3,060,224.
Von Falkai, Bela, Haberland, Reichle, and Stroh. 3,036,048.
Reichle, Alfred D., to Phillips Petroleum Co. Catalytic in situ combustion. 3,048,225, 8–7–62, Cl. 166—11.
Reichle, Hans : *See*—
Kuhn, Hans P., and Reichle. 3,031,075.
Reichner, Philip, to Westinghouse Electric Corp. Gas compressors. 3,039,675, 6–19–62, Cl. 230—114.
Reichstein, Tadeus, A. Wettstein, G. Anner, J.-R. Billeter, K. Heusler, R. Neher, J. Schmidlin, H. Ueberwasser, and P. Wieland, to said T. Reichstein. 21-desoxy-aldosterone. 3,033,858, 5–8–62, Cl. 260—239.55.
Reichstein, Tadeus, A. Wettstein, G. Anner, J.-R. Billeter, K. Heusler, R. Neher, J. Schmidlin, H. Ueberwasser, and P. Wieland; said Wettstein, Anner, Billeter, Heusler, Neher, Schmidlin, Ueberwasser, and Wieland assors. to said Reichstein. 18-oxygenated pregnane compounds. 3,035,-049, 5–15–62, Cl. 260—239.55.
Reick, Franklin G., to Diversified Technology, Inc. Candle molding. 3,026,572, 3–27–62, Cl. 18—58.
Reick, Franklin G., to Diversified Technology, Inc. Carbon coating. 3,027,278, 3–27–62, Cl. 117—226.
Reicks, Leo J. Portable speed adapter for power take-off systems. 3,059,505, 10–23–62, Cl. 74—801.
Reid, Charles N. Method and apparatus for processing ears of corn. 3,029,850. 4–17–62, Cl. 146—81.
Reid, Curtis S., and R. T. Hodges, Jr., to Todd-W Co. Dental drilling apparatus. 3,035,349, 5–22–62, Cl. 32—23.
Reid, Ebenezer E. : *See*—
Geschickter, Charles F., Pierce, Chen, and Reid. 3,015,-657.
Geschickter, Charles F., Pierce, and Reid. 3,056,792.
Geschickter, Charles F., Reid, Pierce, and Chen. 3,037,-983.
Reid, Francis R., to The Pillsbury Co. Dough turning apparatus. 3,048,314, 8–7–62, Cl. 226—108.
Reid, George : *See*—
Freedman, Arthur J., and Reid. 3,049,915.
Reid, Henry. Flat edge trimmer with an internal shearing punch and automatic operating means therefor. 3,019,684, 2–6–62, Cl. 83—190.
Reid, Horace W., to The Cincinnati Milling Machine Co. Device for control of fluid flow rate. 3,043,275, 7–10–62, Cl. 121—38.
Reid, Hugh T. Electrolyzing sodium chloride. 3,066,083, 11–27–62, Cl. 204—68.
Reid, Jack M., and P. L. Michael, to American Gas Association. Method for locating leaks in underground gas conduit. 3,055,209, 9–25–62, Cl. 73—69.
Reid, James : *See*—
Johnson, Herbert S., and Reid. 3,034,863.
Reid, James, to The Standard Products Co. Apparatus for making a window pane supporting and/or gulding structure. 3,067,455, 12–11–62, Cl. 18—4.
Reid, James S., to The Standard Products Co. Spongy elastomeric materials and methods and products used in the manufacture of the same. 3,046,172, 7–24–62, Cl. 154—46.
Reid, James S., to The Standard Products Co. Apparatus for selectively electroplating metallic strip structures. 3,066,091, 11–27–62. Cl. 204—206.
Reid, James S., to The Standard Products Co. Method of making a channel-shaped structure. 3,068,136, 12–11–62, Cl. 156—200.
Reid, John B., and R. A. Spence, to Bain Corp. Method for detachably securing an insole to the bottom of a shoe last. 3,052,904, 9–11–62, Cl. 12—142.
Reid, John D. : *See*—
Mountjoy, Garrard, and Reid. 3,021,383.
Mountjoy, Garrard, and Reid. 3,068,448.
Reinhardt, Robert M., Frick, Arceneaux, and Reid. 3,015,584.
Reinhardt, Robert M., and Reid. 3,052,511.
Vail, Sidney L., Frick, and Reid. 3,015,583.
Reid, John D., to General Motors Corp. Automatic car guidance system. 3,043,952. 7–10–62, Cl. 246—182.
Reid, John D., to A R & T Electronics, Inc. Signal distribution arrangement for closed-circuit communications systems. 3,054,858, 9–18–62, Cl. 179—2.
Reid, John H. Automatic boat bailer. 3,040,691, 6–26–62, Cl. 114—185.
Reid, John P. : *See*—
Birmingham, Donald J., Montijo, and Reid. 3,056,950.
Reid, Lawrence, to Short Bros. & Harland Ltd. Aircraft adapted for vertical take-off and landing. 3,069,117, 12–18–62, Cl. 244—75.
Reid, Luther J., to Socony Mobil Oil Co., Inc. Treatment of desiccants. 3,015,368, 1–2–62, Cl. 183—114.2.
Reid, Luther J., Jr., to Socony Mobil Oil Co., Inc. Deflocculant composition. 3,025,246, 3–13–62, Cl. 252—455.
Reid, Luther J., Jr., to Socony Mobil Oil Co., Inc. Method of treating exhaust gases of internal combustion engines. 3,067,009. 12–4–62, Cl. 23—2.
Reid, Ralph T., to James Lee and Sons Co. Method for producing variable twist yarn. 3,019,593, 2–6–62, Cl. 57—156.
Reid, Robert J., and C. E. Best, to The Firestone Tire & Rubber Co. Method of making graft copolymers of vinyl chloride and polyacrylate. 3,019,208, 1–30–62, Cl. 260—45.5.
Reid, Robert J., and W. R. Conard, to The Firestone Tire & Rubber Co. Blend of vinyl chloride polymer and butadiene-vinylidene chloride copolymer. 3,019,209, 1–30–62, Cl. 260—45.5.
Reid, Thomas H. : *See*—
McPhee, Alexander H., and Reid. 3,019,902.
Reid, William A. : *See*—
Mehl, Walter L., and Reid. 3,051,155.
Reid, William P., to Grommet. 3,015,562. 1–16–62, Cl. 16—2.
Reidelbach, John A., Jr., to Timber Engineering Co. Metal bridging for joists. 3,018,522, 1–30–62, Cl. 20—9.
Reider, Richard B., to Bethlehem Steel Co. Guard rail assembly. 3,053,456. 9–11–62, Cl. 238—23.
Reider, Warren A. : *See*—
Robinson, Carl S., and Reider. 3,032,374.
Reidinger, Albert D. : *See*—
Struve, William S., and Reidinger. 3,031,501.
Reif, Henry E. : *See*—
Johnson, Herbert L., Reif, and Schneider. 3,052,622.
Reif, Myles W., G. W. Goelz, and H. F. Zigmund, to Blandin Paper Co. Paper roll unwind and transfer mechanism. 3,070,323, 12–25–62, Cl. 242—58.2.
Reif, Peter M., and M. H. Semenhuk, to Harris-Intertype Corp. File Case. 3,035,835, 5–22–62, Cl. 271—62.
Reifel, Harry, to Stevens-Arnold Inc. Vibratory capacitors. 3,020,455, 2–6–62, Cl. 317—250.
Reifenhauser, Anton : *See*—
Ulmitz, Wilhelm. 3,022,928.
Reifenhaüser, Friedrich A., to Reifenhaüser K.G. Apparatus for working of thermoplastic synthetic plasties in screw presses. 3,035,304, 5–22–62, Cl. 18—12.
Reifenhauser, H. : *See*—
Ulmitz, Wilhelm. 3,022,928.
Reifenhäuser, Hans, to Reifenhauser K.G. Plasticizing and injection apparatus for plastic or synthetic materials. 3,021,561, 2–20–62, Cl. 18—30.
Reifenhauser, Hans, to Reifenhauser, K.G. Elongated slit nozzle. 3,057,010, 10–9–62, Cl. 18—12.
Reifenhauser K.G. : *See*—
Reifenhäüser, Friedrich A. 3,035,304.
Reifenhäuser, Hans. 3,021,561.
Reifenhauser, Hans. 3,057,010.
Sommerfeld, Franz, and Luther. 3,056,339.
Reifenschweiler, Otto, and M. H. M. Schenkelaars, to North American Philips Co., Inc. Electric discharge tube. 3,030,-167, 4–17–62, Cl. 316—8.

Reifers, Richard F.: *See*—
Stickney, Wendell H., and Reifers. 3,067,470.
Wells, Roger, and Reifers. 3,040,947.
Reifers, Richard F., to Diamond National Corp. Food container. 3,027,997, 4–3–62, Cl. 206—45.33.
Reifers, Richard F., to Diamond National Corp. Molded pulp egg carton. 3,028,065, 4–3–62, Cl. 229—2.5.
Reifers, Richard F., to Diamond National Corp. Method of producing forming screen. 3,034,212, 5–15–62, Cl. 29—553.
Reifers, Richard F., to Diamond National Corp. Packaging. 3,056,523, 10–2–62, Cl. 217—27.
Reifers, Richard F., to The Diamond National Corp. Food container. 3,067,921, 12–11–62, Cl. 229—2.5.
Reifers, Richard F., and H. S. Crane, to Diamond National Corp. Molded pulp egg carton. 3,016,176, 1–9–62, Cl. 229—2.5.
Reifers, Richard F., and G. S. Wolf, to Diamond National Corp. Packaging. 3,056,494, 10–2–62, Cl. 206—65.
Reiff, Ferdinand, G. Huber, and K. Holle, to Zellstoff Fabrik Waldhof. Method for producing inosine. 3,049,536, 8–14–62, Cl. 260—211.5.
Reiff, Theodore R. Method and apparatus for measurement of colloid osmotic pressures. 3,063,288, 11–13–62, Cl. 73—53.
Reiff, Wilhelm, and H. Pelzer, to Beteiligungs- und Patentverwaltungsgesellschaft mit beschrankter Haftung. Arrangement for loading bulk material into compartments arranged alongside each other. 3,048,282, 8–7–62, Cl. 214—16.
Reiffel, Leonard, to Armour Research Foundation of Illinois Institute of Technology. Method and apparatus for generating neutrons. 3,016,461, 1–9–62, Cl. 250—84.5.
Reiffel, Leonard, to Armour Research Foundation of Illinois Institute of Technology. Neutron detection apparatus. 3,029,342, 4–10–62, Cl. 250—83.1.
Reiffel, Leonard, and C. A. Stone, to Armour Research Foundation of Illinois Institute of Technology. Neutron spectrometer. 3,029,343, 4–10–62, Cl. 250—83.1.
Reiffen, Ernst A. Mixer. 3,041,051, 6–26–62, Cl. 259—109.
Reifurth, Hans. Hydraulic shock absorber. 3,019,009, 1–30–62, Cl. 267—64.
Reiher, Manfred: *See*—
Herbert, Hans, Reiher, and Pfeiderer. 3,059,318.
Reihman, Earl F., to General Electric Co. Motor-driven master switch. 3,061,693, 10–30–62, Cl. 200—37.
Reihman, Earl F., and R. C. Cressman, to General Electric Co. Master selector switch. 3,040,151, 6–19–62, Cl. 200—167.
Reijnst, Maximilien F., to North American Philips Co., Inc. Inductance coil comprising an annular premagnetisable core. 3,020,503, 2–6–62, Cl. 336—110.
Reil, Wilhelm: *See*—
Neuendorf, Gunter, and Reil. 3,028,796.
Reiland, Frank D., to Square D Co. Service fitting housing for under-floor wiring system. 3,047,650, 7–31–62, Cl. 174—49.
Reiland, Frank D., to Square D Co. Under-floor duct system for electrical wiring. 3,061,663, 10–30–62, Cl. 174—49.
Reiland, Frank D., to Square D Co. Cover structure for underfloor junction box. 3,070,252, 12–25–62, Cl. 220—3.4.
Reiland, Peter M. Poker chip dispenser. 3,034,517, 5–15–62, Cl. 133—4.
Reiling, Gilbert H., and J. M. Lafferty, to General Electric Co. High power switch tube. 3,049,639, 8–14–62, Cl. 313—166.
Reiling, Thomas L., to R. B. Seth, d.b.a. Boston Chemical Products Co. Anhydrous ammonium soap. 3,053,867, 9–11–62, Cl. 260—413.
Reilly, Albert F., to General Mills, Inc. Coated foam scouring pad. 3,050,414, 8–21–62, Cl. 117—98.
Reilly, Bertram B., to Dravo Corp. Space heater. 3,028,-854, 4–10–62, Cl. 126—110.
Reilly, Bertram B., to Dravo Corp. Truck unloading station. 3,037,647, 6–5–62, Cl. 214—44.
Reilly, Bertram B., to Dravo Corp. Incinerator plant and method. 3,041,986, 7–3–62, Cl. 110—10.
Reilly, Bertram B., to Dravo Corp. Sewage sludge disposal. 3,060,869, 10–30–62, Cl. 110—8.
Reilly, Charles D.: *See*—
McKinney, Alfred H., and Reilly. 3,020,795.
Reilly, Charles P., and J. S. Gorecki, to Westinghouse Electric Corp. Lamp filament connection. 3,069,582, 12–18–62, Cl. 313—271.
Reilly, Hugh T.: *See*—
Sutton, Ernest S., Jr., Reilly, Berman, and Irwin. 3,025,795.
Reilly, James I.: *See*—
Coursen, David L., Noddin, and Reilly. 3,022,544.
Reilly, Richard J., to Minneapolis-Honeywell Regulator Co. Induction fluid amplifier. 3,030,977, 4–24–62, Cl. 137—624.14.
Reilly, Robert A. Separable holding or supporting means. 3,066,665, 12–4–62, Cl. 124—23.
Reilly Tar & Chemical Corp.: *See*—
Cislak, Francis E. 3,045,024.
Cislak, Francis E. 3,049,547.
Cislak, Francis E. 3,069,427.
Cislak, Francis E. and Wheeler. 3,020,280.
Cislak, Francis E., and Wheeler. 3,020,281.
Cislak, Francis E., and Wheeler. 3,020,282.
Graff, Olin D., and Mitchell. 3,060,047.
McGill, Charles K. 3,045,022.
Reilly, Thomas A. Bun or the like treating apparatus. 3,017,844, 1–23–62, Cl. 107—1.
Reiman, Peter A., to Arthur D. Little, Inc. Process for forming a bonded wet-formed web and resulting product. 3,039,914, 6–19–62, Cl. 162—145.
Reiman, Walter C., to The Braun Bros. Packing Co. Washing machine. 3,042,049, 7–3–62, Cl. 134—108.
Reimann, Hans: *See*—
Gould, David H., and Reimann. 3,049,554.
Olivetto, Eugene P., and Reimann. 3,061,607.
Reimann, Jorgen: *See*—
Jensen, Ib H., and Reimann. 3,063,285.
Reimann, Robert C., to Baxter Laboratories, Inc. Parenteral solution equipment. 3,067,898, 12–11–62, Cl. 215—37.
Reimer, Frederick, and G. Hirschberger, to Parameters, Inc. Rotary actuator. 3,049,102, 8–14–62, Cl. 121—97.
Reimer, George M., to Union Special Machine Co. Sewing machines. 3,065,717, 11–27–62, Cl. 112—165.
Reimer, Jacob Jay. Two motor fluid-pressure log turner and loader. 3,043,552, 7–10–62, Cl. 143—99.
Reimers, Eberhart, to General Electric Co. Flash apparatus. 3,025,431, 3–13–62, Cl. 315—241.
Reimers Electric Appliance Co. Inc.: *See*—
Tavender, Walter K. 3,036,195.
Reimers Getriebe K.G., The: *See*—
Dittrich, Otto. 3,016,755.
Dittrich, Otto, Schrodt, and Karig. 3,052,132.
Karig, Erhardt, Steuer, and Dittrich. 3,043,154.
Karig, Ehardt, Steuer, Schrodt, and Dittrich. 3,043,152.
Steuer, Herbert. 3,034,367.
Reinecke-Getriebe KG, Firma: *See*—
Besel, Wilhelm. 3,049,933.
Wingbermuhle, Berthold, and Zindel. 3,034,368.
Reimers, Hinrich, to Rofusa N.V. Method of producing a binder. 3,061,450, 10–30–62, Cl. 106—109.
Reimers, James L., and F. J. Sass. Assembly machine. 3,032,943, 5–8–62, Cl. 53—48.
Reimlinger, Hans K., to Union Carbide Corp. Esters of N-nitroso-acylaminoalkanoic acids. 3,038,929, 6–12–62, Cl. 260—482.
Rein, Edward H., and J. T. Alger, to Configured Tube Products Co. Gas burner. 3,058,515, 10–16–62, Cl. 158—99.
Reinarz, Alvin R.: *See*—
Guest, Paul R., and Reinarz. 3,037,460.
Reindl, Eugen, and K. Boidol, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process of preparing tetraaryl tin. 3,067,225, 12–4–62, Cl. 260—429.7.
Reindl, Eugen, and H. Gelbert, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of triphenyl tin chloride. 3,069,448, 12–18–62, Cl. 260—429.7.
Reindl, Harold J., to General Motors Corp. Material for metal surfaces upon which ice adheres. 3,016,719, 1–16–62, Cl. 62—357.
Reindl, Harold J., to General Motors Corp. Method and apparatus for electrostatic spraying. 3,039,890, 6–19–62, Cl. 117—93.
Reinecke, Herbert: *See*—
Piekarski, Gottfried, and Reinecke. 3,031,480.
Reinecker, Walter J., and D. J. Westergard. Mulching machines. 3,015,188, 1–2–62, Cl. 47—9.
Reineman, Richard G.: *See*—
Schaefer, George E., Anderson, and Reineman. 3,027,190.
Reinemer, Rno P. Lost aid pack. 3,049,227, 8–14–62, Cl. 206—47.
Reiner Industries, Inc.: *See*—
Braca, Armand. 3,047,927.
Gold, John L. 3,030,970.
Reiner, Robert, Inc.: *See*—
Siegel, Walter P., and Thaler. 3,062,163.
Reiner, Stuart, to Teca Corp. Coaxial electrode structure and a method of fabricating same. 3,060,923, 10–30–62, Cl. 128—2.1.
Reiners, Neville M., to Cummins Engine Co., Inc. Push rod structure for an internal combustion engine. 3,034,488, 5–15–62, Cl. 123—32.
Reiners, Neville M., to Cummins Engine Co., Inc. Fuel supply apparatus. 3,036,565, 5–29–62, Cl. 123—139.
Reiners, Walter: *See*—
Fürst, Stefan. 3 016,166.
Fürst, Stefan. 3,023,974.
Fürst, Stefan. 3,027,620.
Furst, Stefan. 3,029,031.
Fürst, Stefan. 3,033,478.
Fürst, Stefan. 3,034,737.
Fürst, Stefan. 3,035,783.
Furst, Stefan. 3,043,529.
Fürst, Stefan. 3,059,865.
Fürst, Stefan. 3,059,867.
Fürst, Stefan. 3,059,868.
Furst, Stefan. 3,065,921.
Fürst, Stefan. 3,067,962.
Fürst, Stefan, and Reiners. 3,031,149.
Fürst, Stefan, and Rühl. 3,061,216.
Ruhl, Manfred. 3,057,577.
Wiggermann, Georg. 3,057,193.
Reiners, Walter. Automatic yarn-coil winding machine. 3,030 040, 4–17–62, Cl. 242—35.6.
Reiners, Walter. Method and means for readying spinning cops. 3,059,866, 10–23–62, Cl. 242—35.6.

Reiners, Walter, and S. Fürst; said Fürst assor. to said Reiners. Method and apparatus for automatically sorting and collecting yarn coils for winding or weaving operations. 3,018,888, 1–30–62, Cl. 209—74.
Reiners, Walter, and M. Rühl; said Rühl assor. to said Reiners. Method and apparatus for servicing multi-station fabricating machines, particularly yarn winding machines. 3,070,320, 12–25–62, Cl. 242—35.9.
Reiners & Wiggermann Getriebe- und Maschinenbau: *See*— Wiggermann, Georg. 3,067,691.
Wiggermann, Georg. 3,068,803.
Reinert, Richard. Exhaust muffler. 3,042,138, 7–3–62, Cl. 181—64.
Reinfeld, Kurt, to Koppers Co. Inc. Sinter machine with raised center rail crash deck. 3,039,756, 6–19–62. Cl. 266—21.
Reinfeld, Kurt, and R. S. Cotton, to Koppers Co., Inc. Sinter apparatus with sprocket adjusted drive. 3,025,046, 3–13–62, Cl. 266—21.
Reinfeld, Kurt, and R. F. Obenchain, to Koppers Co., Inc. Apparatus for the restraint and control of oxygen lances. 3,025,047, 3–13–62, Cl. 266—34.
Reinforced Plastic Container Corp.: *See*— Wilkins, William B. 3,036,726.
Reingold, Irving: *See*— Carter, John L., and Reingold. 3,027,453.
Reingold, Irving, and J. L. Carter, to United States of America Army. Microwave duplexer. 3,058,070, 10–9–62, Cl. 333—9.
Reingruber, Frank. Probe-type thermostat. 3,025,374, 3–13–62, Cl. 200—137.
Reingruber, Joseph, to American Thermostat Corp. Probe type thermostat. 3,045,085, 7–17–62, Cl. 200—137.
Reinhard, Cheyenne A. Carrier for circular saw blades 3,053,424, 9–11–62, Cl. 224—45.
Reinhard, Karl J., and L. F. Swoboda, to The Tumpane Co. of Georgia, Inc. Knockdown platform. 3,022,028, 2–20–62, Cl. 248—23.
Reinhard, Raymond H., to Monsanto Chemical Co. Terpolymers of olefins, maleic anhydride and hexadiene-1,5. 3,060,155, 10–23–62, Cl. 260—78.
Reinhard, Walter J. Carpet seaming tape. 3,029,173, 4–10–62, Cl. 154—53.6.
Reinhard, Walter J. Rug anchoring tape. 3,047,903, 8–7–62, Cl. 16—16.
Reinhardt, Heinz F., to E. I. du Pont de Nemours and Co. Air drying, film forming compositions. 3,055,766, 9–25–62, Cl. 106—287.
Reinhardt, Henry A, and D. B. Parlin, to Bigelow-Sanford, Inc. Cushioned carpeting and method of making the same. 3,019,523, 2–6–62, Cl. 28—72.2.
Reinhardt, Joseph A., to United States of America, Atomic Energy Commission. Escapement for a time rate mechanism. 3,017,742, 1–23–62, Cl. 58—116.
Reinhardt, Robert M., J. G. Frick, Jr., R. L. Arceneaux, and J. D. Reid, to United States of America. Agriculture. Wrinkle resistance treatment for cellulosic textile fabrics. 3,015,584, 1–2–62, Cl. 117—139.4.
Reinhardt, Robert M., and J. D. Reid, to United States of America, Agriculture. Process for the production of alkali-soluble cellulosic textile materials by etherifying the cellulose with specific ether groups and oxidizing with nitrogen dioxide. 3,052,511, 9–4–62, Cl. 8—120.
Reinhart, Gregory M., and T. J. Collopy, to United States of America, Atomic Energy Commission. Continuous precipitation method for conversion of uranyl nitrate to uranium tetrafluoride. 3,063,792, 11–13–62, Cl. 23—14.5.
Reinhart, Harold C.: *See*— Holzboog, Walter H., and Reinhart. 3,065,913.
Reinhart, William A.: *See*— Grotz, Charles A., Reinhart, and Swanke. 3,055,174.
Lawler, John A., and Reinhart. 3,061,038.
Reinhold, Donald F.: *See*— Sletzinger, Meyer, Reinhold, and Karady. 3,068,228.
Reinhold Engineering & Plastics Co., Inc.: *See*— Noland, Robert L. 3,023,495.
Reinhold, Glenn C.: *See*— Burnett, John S., and Reinhold. 3,033,353.
Reinholdt, Friedrich. Emergency warning device. 3,024,702, 3–13–62, Cl. 88—80.
Reinholtz, William H., to General Precision, Inc. Matrix memory. 3,019,420, 1–30–62, Cl. 340—174.1.
Reinholtz, William H., to General Precision, Inc. Checking circuit for digital computers. 3,031,646, 4–24–62, Cl. 340—147.
Reiniger, Kurt, to Daimler-Benz Aktiengesellschaft. Airplane equipped with a gas turbine propelling and lifting unit. 3,023,981, 3–6–62, Cl. 244—13.
Reiniger, Kurt, to Daimler-Benz Aktiengesellschaft. Aircraft, especially vertical take-off aircraft. 3,053,477, 9–11–62, Cl. 244—12.
Reiniger, Kurt, to Daimler-Benz Aktiengesellschaft. Gas turbine propulsion plant and an airplane equipped therewith. 3,064,923, 11–20–62, Cl. 244—12.
Reinke, Donald B., to Sundstrand Corp. Pump or motor device. 3,066,613, 12–4–62, Cl. 103—161.
Reinke, James J., J. W. Gustke, R. J. Schultz, and W. B. Thompson, to General Motors Corp. Power steering gear. 3,033,051, 5–8–62, Cl. 74—388.
Reinke, Lester H., to Dow Corning Corp. Polyethylene-paper adhesion. 3,046,155, 7–24–62, Cl. 117—76.
Reinker, Gerald E.: *See*— Woodall, Edward L., Jr., and Reinker. 3,047,410.
Reinking, Norman H., to Union Carbide Corp. Preparation of glycidyl polyethers of polyhydric phenols. 3,023,225, 2–27–62, Cl. 260—348.6.
Reinosa (Padila), Juan. Dancing toy. 3,063,193, 11–13–62, Cl. 46—137.
Reinowski, Leonard E., H. B. Hindin, and R. D. Seeley, to United States Rubber Co. Puncture-sealant composition and tubeless pneumatic tire containing same. 3,042,098, 7–3–62, Cl. 152—347.
Reinsch, Herbert: *See*— Schnell, Albert, Reinsch, and Lieser. 3,043,186.
Reinsch, Herbert, to Eugen Bauer G.m.b.H. Synchronizing arrangement. 3,045,158, 7–17–62, Cl. 318—75.
Reinshagen, Paul: *See*— Schmidt, Heinz, Reinshagen, Ziemer, and Holzinger. 3,043,111.
Reinthaler, Karl: *See*— Görike, Rudolf, and Reinthaler. 3,035,132.
Reinthaler, Karl, to Akustische U. Kino-Gerate Gesellschaft m.b.H. Microphone arrangement. 3,027,423, 3–27–62, Cl. 179—1.
Reintjes, George P. Checkerwork. 3,030,093. 4–17–62, Cl. 263—51.
Reip, Raymond G., to GPE Controls, Inc. Jet pipe nozzle arrangement. 3,062,455, 11–6–62, Cl. 239—552.
Reis, Herbert J., and F. M. Kudo, to Martin-Marietta Corp. Elliptically polarized spiral antenna. 3,019,439, 1–30–62, Cl. 343—853.
Reis, Norman, F., to Union Carbide Corp. Spot welding nozzle pressure control. 3,043,945, 7–10–62, Cl. 219—127.
Reiselt, William J., to Owens-Illinois Glass Co. Multi-ply bag. 3,058,647, 10–16–62, Cl. 229—55.
Reiser, Alfred A., and F. E. Schuchman. Hair trimmer. 3,054,179, 9–18–62, Cl. 30—29.5.
Reiser, Joseph, to Siemens & Halske Aktiengesellschaft. Method and apparatus for producing hyperpure silicon rods. 3,053,638, 9–11–62, Cl. 23—223.5.
Reish, Gordon C.: *See*— Pierce, James E., and Reish. 3,059,277.
Reisinger, Franz. Transformer. 3,043,900, 7–10–62, Cl. 174—12.
Reiskin, Augusta G. Infant bath tub with toys. 3,029,551, 4–17–62, Cl. 46—32.
Reisman, Howard H. Pressure fired furnace. 3,023,716, 3–6–62, Cl. 110—72.
Reisner, David B.: *See*— Prince, Herbert N., Reisner, and Scudi. 3,070,498.
Reisner, David B., and J. V. Scudi, to Wallace & Tiernan Inc. Substituted nitrothiazolyl piperazines. 3,021,333, 2–13–62, Cl. 260—268.
Reiss, Albert S.: *See*— Longenecker, John G., Arnold, and Reiss. 3,068,351.
Reiss, Edmund F., to The Stanley Works. Roller latch. 3,031,220, 4–24–62, Cl. 292—75.
Reiss, Max, to Eastman Kodak Co. Six-component lens. 3,046,838, 7–31–62, Cl. 88—57.
Reiss, Oscar, to Ideal Toy Corp. Toy facial feature-forming attachment. 3,065,568, 11–27–62, Cl. 46—158.
Reist, Walter. Manipulating flat articles. 3,032,341, 5–1–62, Cl. 271—79.
Reistle, Carl E., Jr., to Jersey Production Research Co. Well treatment with the drill string in the well. 3,027,-943, 4–3–62, Cl. 166—33.
Reistle, Carl E., Jr., to Jersey Production Research Co. Locating submarine wells and lowering well tools into said wells. 3,032,105, 5–1–62, Cl. 166—46.
Reistle, Carl E., Jr., to Jersey Production Research Co. Method of sand control in unconsolidated formations. 3,070,160, 12–25–62, Cl. 166—12.
Reiter, Abraham M., to Paramount Pictures Corp. Audio nonsense generator. 3,059,054, 10–16–62, Cl. 179—1.5.
Reiter, Daniel I. Handle fastener. 3,030,685, 4–24–62, Cl. 24—265.
Reiter, Daniel I. Attachment device for handbag handle or the like. 3,039,506, 6–19–62. Cl. 150—12.
Reiter, David. Periosteal and tooth elevating extraction forceps. 3,029,514, 4–17–62, Cl. 32—62.
Reiter, George R., to General Electric Co. Liquid detergent dispenser. 3,055,555, 9–25–62, Cl. 222—207.
Reiterer, Ferdinand, to Parks-Cramer Co. Valve arrangements. 3,059,896, 10–23–62, Cl. 251—214.
Reiterer, Ferdinand, and L. Windisch. Rail track. 3,037,-095, 5–29–62, Cl. 191—22.
Reiterer, Fritz, and T. Stucklin. Potted plant holder. 3,066,-447, 12–4–62, Cl. 47—47.
Reitfort, Henry A., to International Business Machines Corp. Console typewriter bit printing. 3,015,377, 1–2–62, Cl. 197—19.
Reithel, Raymond F., to Eastman Kodak Co. Photoconductolithography employing magnesium salts. 3,053,179, 9–11–62, Cl. 101—149.2.
Reithel, Raymond F., to Eastman Kodak Co. Photoconductography employing cobaltous or nickelous hydroxide. 3,057,788, 10–9–62, Cl. 204—18.
Reitknecht, Jack. Fountain toothbrush. 3,039,476, 6–19–62, Cl. 132—84.
Reitman, Lester J., to Sperry Rand Corp. Fluid flow control valve. 3,028,880, 4–10–62, Cl. 137—622.
Reitmeier, Ronald E., to Catalysts and Chemicals Inc. Preparation of gel extrudates. 3,020,243, 2–6–62, Cl. 252—465.

Reitmeier, Ronald E., to Catalysts and Chemicals Inc. Preparation of catalysts containing cobalt and molybdenum oxides. 3,020,245, 2–6–62, Cl. 252—465.

Reitz, Rex L.: *See*—
Dysard, William O., and Reitz. 3,067,441.

Reitzel, Georg, to Drescher & Kiefer and Randolph-Rand Corp. Case for cigarettes or other small articles. 3,024,899, 3–13–62, Cl. 206—1.5.

Rejafix Ltd.: *See*—
Edels, Siegfried, and Excell. 3,026,003.

Rejdak, Hattie W.: *See*—
Rejdak, Melvin F. 3,049,437.
Rejdak, Melvin F. and H. W. 3,033,672.

Rejdak, Melvin F., to Erico Products, Inc. Method of welding aluminum and other metals. 3,020,610, 2–13–62, Cl. 22—203.

Rejdak, Melvin F., deceased, by H. W. Rejdak, administratrix, to Erico Products, Inc. Welding material and method of welding. 3,033,672, 5–8–62, Cl. 75—27.

Rejdak, Melvin F., deceased (by H. W. Rejdak, administratrix), to Erico Products Inc. Metal plating. 3,049,437, 8–14–62, Cl. 117—31.

Reker, Horst: *See*—
Bruch, Walter, Reker, and Pollak. 3,032,720.

Rekers, Louis J.: *See*—
Mador, Irving L., and Rekers. 3,061,623.
Pritchett, Ervin G., Mador, and Rekers. 3,062,886.

Relaxacizor, Inc.: *See*—
Browner, William J. 3,015,333.
Browner, William J. 3,025,857.
Browner, William J. 3,025,858.
Browner, William J. 3,055,372.

Reliable Electric Co.: *See*—
Cheney, Donald E. 3,049,691.

Reliable Engineering Co.: *See*—
Casey, Charles L., and Ryno. 3,016,165.

Reliable Packing Co.: *See*—
Peasley, John W., and Di Pasquale. 3,054,229.
Pinta, John G., Di Pasquale, and Peasley. 3,021,557.

Reliance Electric & Engineering Co., The: *See*—
Humphrey, Andrew J. 3,059,162.
Ingellis, John. 3,035,453.
Pfaff, Robert W. 3,069,618.
Wilder, Stuart, Jr. 3,042,333.

Reliance Gauge Column Co., The: *See*—
Goellner, Allan R. 3,018,322.
Goellner, Allan R. 3,022,397.

Reliance Mfg. Co.: *See*—
Spliman, Raynard, Jerabek, and Jackson. 3,066,792.

Reliance Steel Products Co.: *See*—
Nagin, Harry S., and Russell. 3,038,393.

Reliance Time Controls, Inc.: *See*—
Flegel, Dean F. 3,033,950.

Relich, Milenko, to Electroliter Mfg. Co. Ltd. Recessed light fixture with concealed hinge and latch. 3,070,691, 12–25–62, Cl. 240—147.

Reliford, Francis. Hedge clipper drive attachment for power mowers. 3,052,131, 9–4–62, Cl. 74—209.

Reliquefier Corp.: *See*—
Ellis, Herbert B. 3,059,442.

Relken, Günther: *See*—
Wolfram, Arthur, Kaltenbauser, Lorenz, andd Relken. 3,042,483.

Reller, Louis S. and L. S. Garment holder. 3,067,917, 12–11–62, Cl. 223—91.

Reller, Lucille S.: *See*—
Reller, Louis S. and L. S. 3,067,917.

Re-Ly-On Metal Products, Inc.: *See*—
Friedman, Samuel. 3,040,360.

Reman, Gerrit H.: *See*—
Zuiderweg, Frederik J., and Reman. 3,065,168.
Zuiderweg, Frederik J., Reman, and Schaafsma. 3,065,-167.
Zuiderweg, Frederik J., Reman, and Schaafsma. 3,065,-169.

Rembaum, Alan: *See*—
Morton, Maurice, and Rembaum. 3,051,684.

Rembold, Charles E.: *See*—
Preotle, John J., and Rembold. 3,027,735.

Rem, Dayton R.: *See*—
Horn, John D., and Rem. 3,029,986.

Rem-Cru Titanium, Inc.: *See*—
Finlay, Walter L. 3,045,333.

Remeika, Joseph P., to Bell Telephone Laboratories, Inc. Boron oxide-lead oxide etchant and etching process. 3,063,886, 11–13–62, Cl. 156—17.

Remembrance Memorials, Inc.: *See*—
Lucken, John M., and Clemmer. 3,045,374.

Remer, Robert K., to Tribune Co. Electrically conductive printing ink and method of producing same. 3,015,632, 1–2–62, Cl. 252—511.

Remer, Robert K., to Tribune Co. Electrically conductive printing ink. 3,043,784, 7–10–62, Cl. 252—509.

Remer, Robert K., to Tribune Co. Printing. 3,060,853, 10–30–62, Cl. 101—426.

Remer, Robert K. Improvements in printing with ink compositions having volatile solvents. 3,067,056, 12–4–62, Cl. 117—36.

Remillard, Virgil J.: *See*—
Bray, Ray C., and Remillard. 3,041,769.

Remington Arms Co.: *See*—
Bayard, La Vern S., and Eckstein. 3,055,302.
Catlin, Robert T., and Landa. 3,067,454.
Catlin, Robert T., and Sinex. 3,058,115.
Hallston, Ellis W., and Kelly. 3,058,400.
Hameister, Harold L., Wallace, and Smith. 3,061,064.
McElhany, Earl O. 3,070,206.
Walker, Merle H., Reed, and Catlin. 3,054,110.

Remington Arms Co., Inc.: *See*—
Brooks, John W. 3,018,481.
Catlin, Robert T., and Reed. 3,041,615.
Hallston, Ellis W., and Huffman. 3,020,807.
Haskell, Philip R., Evans, Connor, and Ketchpel. 3,024,-530.
Haskell, Philip R., Evans, Ketchpel, and Connor. 3,024,-464.
Haskell, Philip R., Evans, Ketchpel, and Connor. 3,024,-531.
Haskell, Philip R., Evans, Ketchpel, and Connor. 3,024,-666.
Haskell, Philip R., Evans, Ketchpel, and Connor. 3,024,-749.
Hunt, Robert J. 3,017,853.
Hunt, Robert J. 3,019,688.
Kidder, Marshall J. 3,022,734.
Leek, Wayne E., and Morse. 3,023,527.
Mali, Arthur W., and Sieden. 3,040,789.
McCallum, John, Johnson, Ditmars, and McGraw. 3,033,910.
Sinex, John C. 3,023,414.
Young, Homer W. 3,027,811.

Remington Corp.: *See*—
Tucker, Carl L., and Laube. 3,037,364.

Remington, Frederic, and R. A. Tartaglia, to Peerless Tube Co. Apparatus for spraying coatings on containers. 3,036,550, 5–29–62, Cl. 118—301.

Remington, Frederic, and R. A. Tartaglia, to Peerless Tube Co. Machine for applying label tear strips to containers. 3,066,723, 12–4–62, Cl. 156—522.

Remington, Frederic, and R. A. Tartaglia, to Peerless Tube Co. Conveyors. 3,066,784, 12–4–62, Cl. 198—20.

Remington Rand Inc.: *See*—
Lipkin, Daniel M. 3,019,348.

Remington, Richard C., to General Precision, Inc. Vertical sensing device. 3,051,007, 8–28–62, Cl. 74—5.47.

Remington, Richard C., and D. J. Schauffler, to General Precision, Inc. Bubbie type electrolytic reversible switch. 3,020,-506, 2–6–62, Cl. 338—86.

Remington-William R.: *See*—
Griffing, John M., and Remington. 3,018,272.

Remiro, Jose M. M. Procedure for obtaining corsets reinforced with elastic cellular materials. 3,052,579, 9–4–62, Cl. 154—48.

Remke, John L., A. Reed, and A. E. Deam, to Ralco Mfg. Co. Electrical connector. 3,046,512, 7–24–62, Cl. 339—14.

Remke, Marvin A.: *See*—
Kuntz, Louis E., and Remke. 3,019,649.

Remkiewicz, Frank A.: *See*—
Schwarz, Leonard H., and Remkiewicz. 3,069,035.

Remmele Engineering, Inc.: *See*—
Toensing, James W. 3,015,236.

Remmers, Edward G.: *See*—
Sieger, George M., Barringer, and Remmers. 3,068,264.

Remmey, George B., and C. A. McFadden, to Bickley Furnaces, Inc. Burner assembly. 3,055,652, 9–25–62, Cl. 263—40.

Rempel, Dietrich G. and F. A. Pfeifenroth, to Rempel Mfg., Inc. Method of forming hollow plastic articles. 3,031,720, 5–1–62, Cl. 18—47.5.

Rempel Mfg., Inc.: *See*—
Rempel, Dietrich G., and Pfeifenroth. 3,031,720.

Rempka, Joachim K. O., F. E. Schmidt, and F. W. Wolterstorf, to Siemens & Halske Aktiengesellschaft. Hot box detector. 3,040,176, 6–19–62, Cl. 250—83.

Remy, David C., to E. I. du Pont de Nemours and Co. N₁-perfluoroalkanoyl-N₂-aryl-methylene-hydrazine. 3,055,-938, 9–25–62, Cl. 260—562.

Remy, David C., to E. I. du Pont de Nemours and Co. Fluorinated polymers. 3,061,590, 10–30–62, Cl. 260—72.

Ren Plastics, Inc.: *See*—
Genetti, Charles A. 3,039,912.
Renaud, Harold E. 3,018,520.

Renaldi, J. A., & Co., Inc.: *See*—
Renaldi, John A., Markunas, and Terra. 3,027,136.

Renaldi, John A., P. A. Markunas, and M. Terra, to J. A. Renaldi & Co., Inc. Valve mechanism. 3,027,136, 3–27–62, Cl. 251—340.

Renard, Jean: *See*—
Scheller, Walter, and Renard. 3,038,781.
Scheller, Walter, and Renard. 3,068,066.

Renas, Lawrence J.: *See*—
Newcomb, Cyrus B., Jr., and Renas. 3,019,287.

Renaud, Harold E., to Ren Plastics, Inc. Method of molding by spraying molten metal and heat-reactive bonding agent. 3,018,520, 1–30–62, Cl. 18—48.

Renaud, Yves. Clasp for garters and the like. 3,028,648, 4–10–62, Cl. 24—245.

Renaudo, Samuel: *See*—
Moberly, Charles W., and Renaudo. 3,023,201.

Renaut, Jean-Jacques, and J. Dory, to Societe Realisations Ultrasoniques. Ultrasonic apparatus for examining the interior of solid bodies. 3,052,115, 9–4–62, Cl. 73—67.5.

Renaut, Paul, to Realisations Ultrasoniques. Electrical damping device for electro-mechanical transducers. 3,029,-356, 4–10–62, Cl. 310—8.1.

Renaut, Paul, to Societe "Realisations Ultrasoniques". Display device for recurring echoes. 3,050,990, 8–28–62, Cl. 73—67.8.

Renaut, Paul, to "Realisations Ultrasoniques." Piezoelectric transducer. 3,069,574, 12–18–62, Cl. 310—9.7.

Renberg, Graham A., to Phillips Petroleum Co. Particle agglomeration of water precipitated polyolefins. 3,032,545, 5–1–62, Cl. 260—94.9.

Rench, Harry D., and H. W. Harris, to Racine Industrial Plant Inc. Lined container package. 3,061,165, 10–30–62, Cl. 229—14.

Renco, Inc.: *See*—
Burnett, Eugene J. 3,024,620.

Rendek, Robert B.: *See*—
Furgal, Henry P., and Rendek. 3,062,663.

Rendel, George H.: *See*—
Carter, Daniel T., and Rendel. 3,034,926.

Rendle, Harold A., to G. Miller. Car carrier boat loading attachment. 3,049,255, 8–14–62, Cl. 214—450.

Rendon, Leandro, to The Champion Co. Embalming composition. 3,057,775, 10–9–62, Cl. 167—49.5.

Rendos, John J., to Air Reduction Co., Inc. Method of purifying monatomic inert gases. 3,061,403, 10–30–62, Cl. 23—2.

Rendulich, Madeline I. Shower caps. 3,051,960, 9–4–62, Cl. 2—68.

Renggli, Josef: *See*—
Wegmann, Jacques, and Renggli. 3,043,650.

Renier, James J.: *See*—
Renier, Roger P., and Renier. 3,017,592.

Renier, James J., to Minneapolis-Honeywell Regulator Co. Electrical resistor. 3,064,222, 11–13–62, Cl. 338—25.

Renken, Howard C.: *See*—
Stephens, Frank M., Jr., and Renken. 3,020,210.

Renkert, Donald H., and J. H. Schreiber, to Metropolitan Brick, Inc. Tile punching apparatus. 3,059,304, 10–23–62, Cl. 25—1.

Renkey, Albert L., to Harbison-Walker Refractories Co. Refractory castable. 3,060,043, 10–23–62, Cl. 106—64.

Renne, William C. Thermostatic mixing valve. 3,067,942, 12–11–62, Cl. 236—12.

Renne, William C. Thermostatic mixing valve. 3,067,943, 12–11–62, Cl. 236—12.

Renneker, H. H., Co., Inc.: *See*—
Renneker, Herman H. 3,056,862.

Renneker, Herman H., to H. H. Renneker Co., Inc. Telephone hand set supports. 3,056,862, 10–2–62, Cl. 179—157.

Renner, Clarence B., to Globe Industries, Inc. Powder metallurgy. 3,024,127, 3–6–62, Cl. 117—16.

Renner, Elmer J., to Stephens-Adamson Mfg. Co. Belt conveyors. Re. 25,151, 4–3–62, Cl. 74—241.

Renner, Glen R., to General Motors Corp. Bushing. 3,033,-622, 5–8–62, Cl. 308—236.

Renner, Glen R., and L. A. Rice, to General Motors Corp. Motor vehicle power generation. 3,017,563, 1–16–62, Cl. 322—90.

Renner, Goodsell H., and D. A. Wessels. Support for curtains and draperies. 3,023,450, 3–6–62, Cl. 16—87.6.

Renner, Günther: *See*—
Bornemann, Dieter, Dohr, Renner, and Ziegler. 3,023,242.

Renner, Hermann: *See*—
Barenyi, Bela, and Renner. 3,047,330.

Renner, Offried, and K. Zattler, to Agfa Aktiengesellschaft. Shutter housing for a camera having a central shutter. 3,035,502 5–22–62, Cl. 95—63.

Renner, Ulrich, and D. A. Prins, to Geigy Chemical Corp. Process for the decarbalkoxylation of alkyyl esters of unsaturfed nitrog-containing carboxylic acids. 3,049,546, 8–14–62, Cl. 260—294.7.

Renner, Will: *See*—
Travis, Reynolds K., and Renner. 3,025,397.

Rennhack, Elliott H., to The New Jersey Zinc Co. Production of wrought titanium. 3,052,976, 9–11–62, Cl. 29—420.

Rennhard, Hans H.: *See*—
Beereboom, John J., Rennhard, and Stephens. 3,043,875.

Rennhard, Hans H., L. H. Conover, P. N. Gordon, and C. R. Stephens, Jr., to Chas. Pfizer & Co., Inc. 4a,12a-anhydro-4-desdimenthylaminotetracycline and analogs thereof. 3,043,876, 7–10–62, Cl. 260—559.

Rennilson, Justin J.: *See*—
Hider, Theodore M., Rennilson, and Frech. 3,047,871.

Renoux, Pierre E., to Cri-Dan. Thread cutting machine with means to engage feed screw means. 3,041,640, 7–3–62, Cl. 10—105.

Rensch, Joseph T. Rock digger and loader. 3,021,971, 2–20–62, Cl. 214—147.

Renshaw, Adelbert T., deceased; L. K. and J. W. Renshaw, executors. Telescoping upper compression arm for a three-arm tractor lifting hitch. 3,068,944, 12–18–62, Cl. 172—449.

Renshaw, Lee K.: *See*—
Renshaw, Adelbert T. 3,068,944.

Renshaw, Robin, to Modern Hydraulics, Inc. Mobile crane. 3,018,005. 1–23–62, Cl. 212—8.

Renshaw, Robin, to Modern Hydraulics, Inc. Hydraulic jack. 3,047,269, 7–31–62, Cl. 254—93.

Renshaw, William G., R. C. Bongartz, and J. M. Belgay, to Allegheny Ludlum Steel Corp. Corrosion test. 3,019,090, 1–30–62, Cl. 23—230.

Rensink, John M., to Amphenol-Borg Electronics Corp. Portable crimping tool. 3,049,951 8–21–62, Cl. 81—15.

Rent, Edward F., and F. M. Powell, to International Business Machines Corp. Indexing system for calculators. 3,015,-441, 1–2–62, Cl. 235—157.

Rent, Edward F., and F. M. Powell, to International Business Machines Corp. Program control for data storage and processing machine. 3,017,092, 1–16–62, Cl. 235—153.

Rentscher, Roland R., and R. C. M. Hume. Key holder. 3,045,469, 7–24–62, Cl. 70—459.

Rentschler, Karl F., to Alfred Gauthier G.m.b.H. Photographic shutter. 3,018,708, 1–30–62, Cl. 95—18.

Rentschler, Karl F., to Alfred Gauthier, G.m.b.H. Photographic camera. 3,024,715, 3–13–62, Cl. 95—10.

Rentschler, Waldemar T., to Alfred Gauthier G.m.b.H. Photographic camera with automatic exposure regulator. 3,018,706, 1–30–62, Cl. 95—10.

Rentschler, Waldemar T., to Alfred Gauthier G.m.b.H. Photographic camera. 3,018,710, 1–30–62, Cl. 95—64.

Rentschler, Waldemar T., to Alfred Gauthier, G.m.b.H. Photographic camera. 3,022,714, 2–27–62, Cl. 95—10.

Rentschler, Waldemar T., to Alfred Gauthier, G.m.b.H. Photographic camera. 3,029,718, 4–17–62, Cl. 95—10.

Rentschler, Waldemar T., to Alfred Gauthier G.m.b.H. Photographic camera having automatic exposure setting means. 3,037,435, 6–5–62, Cl. 95—10.

Rentschler, Waldemar T., to Alfred Gauthier G.m.b.H. Photographic camera having automatic exposure setting means. 3,037,437, 6–5–62, Cl. 95—10.

Rentschler, Waldemar T., to Alfred Gauthier G.m.b.H. Photographic camera having automatic exposure setting means. 3,037,439, 6–5–62, Cl. 95—64.

Rentschler, Waldemar T., to Alfred Gauthier G.m.b.H. Photographic camera with electric exposure regulator. 3,037,-440, 6–5–62, Cl. 95—10.

Rentschler, Waldemar T., to Alfred Gauthier G.m.b.H. Photographic camera with automatic exposure setting. 3,038,398, 6–12–62, Cl. 95—10.

Rentschler, Waldemar T., to Alfred Gauthier G.m.b.H. Photographic intra-lens shutter with incorporated electric exposure-meter. 3,040,643, 6–26–62, Cl. 95—64.

Rentschler, Waldemar T., to Alfred Gauthier G.m.b.H. Photographic camera having automatic diaphragm setting. 3,041,948, 7–3–62, Cl. 95—10.

Rentschler, Waldemar T., to Alfred Gauthier G.m.b.H. Photographic camera. 3,057,282, 10–9–62, Cl. 95—10.

Rentschler, Waldemar T., to Alfred Gauthier G.m.b.H. Measuring and sorting device. 3,056,496, 10–2–62, Cl. 209—82.

Rentschler, Waldemar T., to Alfred Gauthier G.m.b.H. Photographic camera. 3,059,557, 10–23–62, Cl. 95—53.

Rentschler, Waldemar T., to Alfred Gauthier G.m.b.H. Photographic camera. 3,065,682 11–27–62, Cl. 95—10.

Rentschler, Waldemar T., and F. W. R. Starp, to Alfred Gauthier, G.m.b.H. Photographic camera. 3,062,112, 11–6–62, Cl. 95—10.

Rentschler, Waldemar T., and F. W. R. Starp, to Alfred Gauthier, G.m.b.H. Camera. 3,068,768, 12–18–62, Cl. 95—10.

Rentshler, Delmar F., D. P. Langlois, R. F. Larson, L. H. Alverson and R. W. Liggett. Production of crystalline glucose. 3,039,935, 6–19–62, Cl. 195—11.

Renwick, Charles S., Jr. Method of making a humous carrier for plant nutrients. 3,034,882, 5–15–62, Cl. 71—23.

Renwick, Frederick W., Sr., and G. Bush, to Hollwick, Inc. Artificial candle. 3,036,452, 5–29–62, Cl. 67—55.

Renz, Jany: *See*—
Stoll, Arthur, Renz, and von Wartburg. 3,060,169.

Renz, Jany, J.-P. Bourquin, R. Griot, G. Schwarb, and L. Ruesch. 2-alkylmercapto-9-/2'-(N-alkyl-piperidyl-2'' and pyrrolidyl-2'')-ethylidene-1'/-thiaxanthenes. 3,055,888, 9–25–62, Cl. 260—240.

Renz, Jany, J.-P. Bourquin, R. Griot, L. Ruesch, and G. Schwarb, to Sandoz Ltd. 2-alkyl mercapto-9-(N-alkylpiperidylidene-4')-thioxanthenes and the acetate salts thereof. 3,055,903, 9–25–62, Cl. 260—293.4.

Renzoni, Louis S.: *See*—
Queneau, Paul E., and Renzoni. 3,069,254.

Repapis, Manoli. Process of refining fats and oils. 3,065,249, 11–20–62, Cl. 260—425.

Repasky, George S. and J. F., to Greensburg Concrete Block Co. Block handling apparatus. 3,044,637, 7–17–62, Cl. 214—6.

Repasky, Joseph F.: *See*—
Repasky, George S. and J. F. 3,044,637.

Repcor Inc.: *See*—
Wellis, Ned D. 3,023,837.

Repella, Nicholas: *See*—
Cole, Addison D., Levin, and Repella. 3,028,595.

Repking, Edward F., to Crown Zellerbach Corp. Method of assembling multi-wall bulk pak shipping containers. 3,041,-942, 7–3–62, Cl. 93—36.01.

Repko, Jan D., to North American Philips Co., Inc. Variable capacitor. 3,015,766, 1–2–62, Cl. 317—253.

Repko, Jan D., and M. G. Verheijden, to North American Philips Co., Inc. Variable capacitor. 3,015,765, 1–2–62, Cl. 317—253.

Replogle, Edward H.: *See*—
Simmonds, Milo R. 3,056,378.

Repp, Edwin F., to M. D. Knowlton Co. Attachment for automatic quadruple staying machine. 3,049,061, 8–14–62, Cl. 93—41.
Repp, Robert: *See*—
Dobbins, Mark, Gruber, Repp, and Rockhoff. 3,049,198.
Repp, William S.: *See*—
Bell, Carl L., and Repp. 3,047,095.
Reppe, Walter, and R. Stadler, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Process for producing acrylic acid. 3,023,237, 2–27–62, Cl. 260—533.
Reppert, Erwin J., to General Motors Corp. Air bleed control. 3,030,027, 4–17–62, Cl. 236—101.
Repsher, Robert W., to Westinghouse Electric Corp. Discharge device having exterior lubricating phosphate coating. 3,023,337, 2–27–62, Cl. 313—108.
Repsher, Robert W., to Westinghouse Electric Corp. Phosphor. lamp and method. 3,023,340, 2–27–62, Cl. 313—109.
Republic Aviation Corp.: *See*—
Branker, Hoffman E. 3,052,817.
Cavalconte, Charles C. 3,046,436.
Kunen, Alfred E. 3,032,978.
Sokol, Benjamin. 3,029,433.
Sokol, Benjamin, and Sparrow. 3,035,310.
Theodorsen, Theodore. 3,032,976.
Republic Die & Tool Co.: *See*—
Lasko, John C. 3,030,879.
Lasko, John C. 3,046,669.
Republic Fastener Products Corp.: *See*—
Smith, Kandall E. 3,060,986.
Republic Flow Meters Co.: *See*—
Smoot, Charles H. 3,017,556.
Republic Industrial Corp.: *See*—
Gary, John E., and Cobb. 3,056,182.
Kennedy, Edward R. 3,020,631.
Republic Rubber Division: *See*—
McCormick, Clarence E. 3,020,701.
McCormick, Clarence E. 3,043,585.
Republic Steel Corp.: *See*—
Brown, Carl L., Myers, Kinsey, and Menefee. 3,050,614.
Conner, Guy O. 3,027,577.
Conner, Guy O. 3,031,700.
Conner, Guy O. 3,035,684.
Conner, Guy O. 3,036,319.
Conner, Guy O. 3,049,222.
Drosten, Fred W., and Kaczmarek. 3,062,641.
Drosten, Fred W., Wedlard, and Robinson. 3,058,841.
Garmy, Robert J. Re. 25,124.
Garmy, Robert J. 3,057,935.
Malcher, Frank F. 3,019,916.
Reed, William A., and Crooks. 3,067,032.
Truman, Theodore J., and Harder. 3,019,868.
Woolley, Wayne R. 3,059,553.
Requa, Roy. Adjustable headrest cushion. 3,043,626, 7–10–62, Cl. 297—397.
Reschenedер, Karl, to Eternit-Werke Ludwig Hatschek. Apparatus for the production of webs of fibre material. 3,065,787, 11–27–62, Cl. 162—327.
Research Corp.: *See*—
Bivans, Ernest W. 3,037,195.
Cypser, Rudolph J., Harrington, Hopkins, Housman, Jeffrey, and Ross. 3,056,110.
Everett, Robert R. 3,037,192.
Fox, Joseph W. 3,046,742.
Follin, James W., Jr. 3,019,982.
Guldemond, John, and Van Hoesen. 3,039,252.
Hare, Milton D., and Meneses. 3,037,409.
Hosier, William A., and Puorro. 3,018,956.
Housman, Bennett, Jeffrey, Mayer, and Thompson. 3,045,317.
Hyde, Clyde M. 3,020,398.
Jones, Richard E., and Isaacson. 3,035,481.
Koda, Kobuo J., Smith, Corderman, and Rodgers. Re. 25,221.
Luke, George W. 3,017,585.
Lyle, Robert E., Jr., and Troscianiec. 3,029,244.
Maxwell, Bryce. 3,046,603.
McLimans, William F., and Schepartz. 3,039,932.
Mihas, Nicholas A. 3,022,352.
Pedersen, Norman E., and Fleischer. 3,019,430.
Reed, Lester J., and Gunsalus. 3,049,549.
Stiles, Martin, and Finkbeiner. 3,055,936.
Van Hoesen, Harold E., and Willison. 3,039,253.
Von Hippel, Arthur R. 3,017,516.
Wolf, Stuart G., Jr., Kputto, and Trucco. 3,026,251.
Wood, Earl H. 3,029,682.
Wrigley, Walter, and Draper. 3,015,962.
Research-Cottrell, Inc.: *See*—
Cavanagh, Patrick E. 3,045,822.
Copcutt, Vincent W. 3,063,219.
Heiberg, Carl W. 3,029,577.
White, Harry J. 3,054,263.
Research Equipment Co.: *See*—
Ohrn, Carl H. 3,045,120.
Research Evaluation Associates, Inc.: *See*—
Partington, John E. 3,054,544.
Research, Inc.: *See*—
Anderson, James R., and Abramson. 3,060,332.
Research Institute For Iron, Steel and Other Metals of the Tohoku University, The: *See*—
Takeuchi, Sakae. 3,039,866.
Research Interests Ltd.: *See*—
Fries, Gustav. 3,025,012.
Research Laboratorium Dr. C. Janssen, N.V.: *See*—
Janssen, Paul A. J. 3,030,367.
Janssen, Paul A. J. 3,030,372.
Janssen, Paul A. J. 3,041,344.
Janssen, Paul A. J. 3,069,425.
Janssen, Paul A. J. 3,069,426.
Research Products Corp.: *See*—
Hambrecht, Albert H., Bartels, Isenring, and Rowe. 3,017,698.
Onstad, Ragnar E., Shoemaker, Frohmader, and Rowe. 3,031,827.
Shoemaker, Milton J. 3,066,038.
Research Products Mfg. Co.: *See*—
Blankenship, Ernest B., and Bowers. 3,020,559.
Resener, Baird E., to Amsted Industries Inc. Conveyor chain. 3,047,130, 7–31–62, Cl. 198—189.
Resener, Irvin C., to Resener Machine & Tool Co., Inc. Tube stock sizing apparatus. 3,049,034, 8–14–62, Cl. 78—14.
Resener Machine & Tool Co., Inc.: *See*—
Resener, Irvin C. 3,049,034.
Reserve Mining Co.: *See*—
Genier, Henry L. 3,047,242.
Kowalowski, William. 3,064,909.
Resina Automatic Machinery Co., Inc.: *See*—
Weller, Arthur W. 3,043,416.
Weller, Arthur W. 3,057,135.
Resinoid Engineering Corp.: *See*—
Herbst, Clarence A. 3,066,387.
Resistance Products Co.: *See*—
Olson, Earl R., and Chapman. 3,018,198.
Peffer, Ralph M. 3,046,325.
Resistoflex Corp.: *See*—
St. John, Alexander N. T., Thomann, and Titterton. 3,030,253.
St. John, Alexander N. T., and Titterton. 3,050,786.
Resk, William, to Peelquik Co., Inc. Vegetable-peeling appliance. 3,059,679, 10–23–62, Cl. 146—49.
Reslock, Alfred M., to Van Norman Industries, Inc. Variable attenuators. 3,070,763, 12–25–62, Cl. 333—81.
Resnick, Albert L.: *See*—
Herman, Daniel F., Resnick, and Simone. 3,050,504.
Resnick, Paul, and J. J. R. Luzzi, to Interchemical Corp. Tris-aziridinyl phosphazo sulfone compounds and the preparation thereof. 3,028,377, 4–3–62, Cl. 260—239.
Resnick, Willard B., to American Petrochemical Corp. Gel time meter. 3,038,327, 6–12–62, Cl. 73—53.
Resonated Products, Inc.: *See*—
Freeborn, James E. 3,058,361.
Resources Research, Inc.: *See*—
Huber, Henri. 3,052,727.
Respess, Richard D., to Jno. H. Swisher & Son, Inc. Cigar shaping method and apparatus. 3,057,361, 10–9–62, Cl 131—79.
Restall, William E., Jr.: *See*—
Jordan, Homer G., Purgett, Restall, and Schweizer. 3,027,432.
Restivo, Albert R.: *See*—
Florey, Klaus G., Bernstein, Restivo, and Yale. 3,057,861.
Retter, Walther, W. Müller, and M. Zimmerman, to Bayer Aktiengesellschaft, Farbenfabriken. Improved lubricating oil compositions. 3,047,502, 7–31–62, Cl. 252—48.4.
Rettig, August: *See*—
Hanusch, Fritz, and Rettig. 3,047,907.
Rettig, Robert: *See*—
Wolak, Kurt, Karrer, and Rettig. 3,033,965.
Rettman, Robert J., to James H. Matthews & Co. Memorial vase retaining brackets. 3,052,065, 9–4–62, Cl. 50—22.
Retzinger, Leo P., Jr., to General Precision, Inc. Analog-digital converter. 3,056,956, 10–2–62, Cl. 340—347.
Retzky, Clarence: *See*—
Busby, John C., and Retzky. 3,055,759.
Reuber, August M. Harrow. 3,066,744, 12–4–62, Cl. 172—110.
Reumerman, Theodorus, and W. H. T. Helmig. Remote control accounting system. 3,035,769, 5–22–62, Cl. 235—153.
Reusch, Emil: *See*—
Kirkpatrick, Leland W., and Reusch. 3,037,494.
Reusche, Frank L.: *See*—
Caban, Louis, and Reusche. 3,018,191.
Reusche, L., & Co.: *See*—
Caban, Louis, and Reusche. 3,018,191.
Reuschel, Konrad, and N. Schink, to Siemens-Schuckertwerke Aktiengesellschaft. Process for re-using carrier body holders employed in the pyrolytic precipitation of silicon. 3,042,493, 7–3–62, Cl. 23—223.5.
Reuschel, Konrad, and A. Kersting, to Siemens-Schuckerwerke Aktiengesellschaft. Method for producing hyperpure silicon. 3,057,690, 10–9–62, Cl. 23—223.5.
Reuss, John L., and B. P. Bell, to International Minerals & Chemical Corp. Sampling apparatus. 3,025,707, 3–20–62, Cl. 73—421.
Reusser, Fritz, to The Upjohn Co. Method for preventing culture degeneration in a continuous fermentation. 3,062,724, 11–6–62, Cl. 195—141.
Reusser, Robert E., to Phillips Petroleum Co. Purification of sodium diuranate. 3,034,856, 5–15–62, Cl. 23—14.5.
Reusser, Robert E., and J. F. Wilson, to Phillips Petroleum Co. Stabilization of phosphoric acid and neutralized solutions thereof. 3,057,711, 10–9–62, Cl. 71—43.

Reusser, Robert E., and V. C. Vives, to Phillips Petroleum Co. Production of non-caking fertilizers. 3,070,435, 12–25–62, Cl. 71—64.

Reuter, Edward M. Garage floor dam. 3,052,248, 9–4–62, Cl. 134—199.

Reuter, Franz G.: *See*—
Nagenborg, Heinrich, Jr., and Reuter. 3,020,933.

Reuter, Franz G., to Lemforder Metallwarengesellschaft m.b.H. Bearing bushing. 3,022,128, 2–20–62, Cl. 308—238.

Reuter, Franz G., to Mobay Chemical Co. Joints. 3,027,182, 3–27–62, Cl. 287—87.

Reuter, Franz G., to Mobay Chemical Co. Flexible expansion pipe joint having radial limiting means. 3,039,795, 6–19–62, Cl. 285—235.

Reuter, Franz G., to Mobay Chemical Co. Torsion bar support. 3,070,408, 12–25–62, Cl. 308—78.

Reuter, Gertrud: *See*—
Klenk, Ernst, Debuch, and Eikermann. 3,031,478.

Reuter, Lothar: *See*—
Trieschmann, Hans G., Reuter, and Arend. 3,036,974.

Reuter, Luke N. Air duct jack. 3,017,174, 1–16–62, Cl. 269—126.

Reuter, Martin, and L. Orthner, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for preparing trihydroxymethyl-phosphine. 3,030,421, 4–17–62, Cl. 260—606.5.

Reuter, Raymond, and A. J. Tozydlo, to Nalco Chemical Co. Process of concentrating aqueous silica sols. Re. 25,252, 10–9–62, Cl. 252—313.

Reuter, Raymond, and L. E. Reven, to Nalco Chemical Co. Method for producing concentrated small particle size silica sols. 3,029,151, 4–10–62, Cl. 106—38.3.

Reuter, Robert. Egg cutter. 3,036,611, 5–29–62, Cl. 146—2.

Reuther, John F., and J. Sandin, to Westinghouse Electric Corp. Semiconductor circuit interrupter. 3,058,036, 10–9–62, Cl. 317—31.

Reuther, Martin E.: *See*—
Garvey, Louis P., and Reuther. 3,034,826.

Reutsch, Paul, to The Electric Storage Battery Co. Fuel cell electrode. 3,062,909, 11–6–62, Cl. 136—86.

Reutter, Jean L. Piston pump for liquids. 3,063,382, 11–13–62, Cl. 103—163.

Reutter, John W. Convertible electric plug and safety fuse combination. 3,027,438, 3–27–62, Cl. 200—115.5.

Reutz, Theodore A. Holder for filleting fish. 3,015,841, 1–9–62, Cl. 17—8.

Revco, Inc.: *See*—
Brown, Carl E., and Crotser. 3,022,639.
Tenniswood, Howard J. 3,041,679.

Revel, Ernest A. Work holders. 3,035,462, 5–22–62, Cl. 77—62.

Revell, Donald H.: *See*—
Balfour, Joseph, and Revell. 3,034,679.

Revell, Donald H., and R. C. Fulk, to Reynolds Metals Co. Elongated casement window. 3,035,316, 5–22–62, Cl. 20—53.

Revell, Frank: *See*—
Kirkpatrick, John G., and Revell. 3,053,640.

Reven, Lewis E.: *See*—
Reuter, Raymond, and Reven. 3,029,151.

Reventas, Algirdas A.: *See*—
Porter, Frank, and Reventas. 3,031,426.

Reverchon, Rene: *See*—
Ortoli, Claire, and Reverchon. 3,031,507.

Revere Camera Co.: *See*—
Briskin, Theodore S., Moore, and Rom. 3,027,666.
Briskin, Theodore S., Moore, and Rom. 3,059,741.
Briskin, Theodore S., Moore, and Rom. 3,063,610.
Brueckner, Hubert U., Fluskey, and Werbyckyj. 3,019,701.
Shimkus, Robert A. 3,051,068.
Tibbetts, Raymond E., and Gilkeson. 3,069,972.

Revere Camera Co. (formerly Samica Corp.): *See*—
Claras, Carl W., and Wickstrom. 3,015,695.

Revere Copper and Brass, Inc.: *See*—
Kennedy, James M., Jr. 3,060,067.
Wilkins, Richard A. 3,036,369.
Wilkins, Richard A. 3,046,652.
Wilkins, Richard A. 3,047,943.
Wilkins, Richard A. 3,050,848.

Reverman, George H., to Westinghouse Electric Corp. Metal joining method. 3,068,563, 12–18–62, Cl. 29—458.

Reverse Circulation Core-Barrel, Inc.: *See*—
Doherty, Jack R. 3,066,748.

Revitt, William A.: *See*—
Turner, Alan, and Revitt. 3,025,427.

Revlon, Inc.: *See*—
Frangos, John, Jass, and Scott. 3,069,098.

Revolvex Corp.: *See*—
Poole, Myron C. 3,052,932.

Rex, Donald K.: *See*—
Jurgens, Henry A., Rex, and O'Connor. 3,034,644.

Rex Research Corp.: *See*—
Hedenburg, Oscar F. 3,035,063.
Hedenburg, Oscar F. 3,060,195.

Rexall Drug and Chemical Co.: *See*—
Tupper, Earl S. 3,044,659.

Rexall Drug and Chemical Co. (U.K.) Ltd. *See*—
Gawthrop, Alan. 3,049,269.

Rexall Drug Co.: *See*—
Hurst, Edward. 3,048,482.

Rexer, Edward F., Jr., to Minneapolis-Honeywell Regulator Co. Electron discharge device. 3,065,291, 11–20–62, Cl. 174—50.64.

Rexer, Joachim: *See*—
Peterson, David T., and Rexer. 3,044,847.

Rexford, Dean R., to E. I. du Pont de Nemours and Co. Copolymer elastomer of vinylidenefluoride and hexafluoropropene. 3,051,677, 8–28–62, Cl. 260—29.6.

Rexford, Kenneth B., to Koehring Co. Press control mechanism. 3,044,389, 7–17–62, Cl. 100—48.

Rexford, Willis E., to Louis Marx & Co., Inc. Accessory controller for toy railway. 3,033,983, 5–8–62, Cl. 246—246.

Rexine, Carl A. Ice auger. 3,032,126, 5–1–62, Cl. 175—18.

Rexroad, James O., to Westinghouse Electric Corp. Enclosed circuit interrupter. 3,054,866, 9–18–62, Cl. 200—50.

Rexrode, Hampton M., and W. B. Harrison, Jr., to Phipps & Bird, Inc. Flow proportional motor control. 3,041,517, 6–26–62, Cl. 318—444.

Rexroth, Walter: *See*—
Karl, Martin, and Rexroth. 3,050,011.

Rey-Bellet, Gerald: *See*—
Doebel, Karl, Rey-Bellet, Schläpfer, and Spiegelberg. 3,067,209.

Rey, Thomas M., ½ to L. Bloom. Frequency modulated radar. 3,026,515, 3–20–62, Cl. 343—14.

Reyden, Wayne V.: *See*—
Schutmaat, Wayne H., and Reyden. 3,066,694.

Reymann, George L., and H. J. Bach, to Martin-Marietta Corp. Solderable coating. 3,040,781, 6–26–62, Cl. 138—145.

Reymes-Cole, Bernard T. R.: *See*—
Reymes-Cole, John M. R. and B. T. R. 3,049,899.

Reymes-Cole, John M. R. and B. T. R., to Singer-Fidelity, Inc. Circular knitting machines. 3,049,899, 8–21–62, Cl. 66—46.

Reymond, Michel, to Societe Civile d'Etude de Procedes de Scellement. Removable guide for explosively fired fasteners. 3,040,325, 6–26–62, Cl. 1—44.5.

Reynard, C. G., Inc.: *See*—
Reynard, Chauncy G. 3,042,267.

Reynard, Chauncy G., to C. G. Reynard, Inc. Liquid dispensing device. 3,042,267, 7–3–62, Cl. 222—185.

Reynard, John M., to Royal McBee Corp. Control mechanism. 3,029,921, 4–17–62, Cl. 197—51.

Reynard, John M., to Royal McBee Corp. Keyboard lock and/or interlock for typewriters and like business machines. 3,032,168, 5–1–62, Cl. 197—107.

Reynaud, Samuel C. Operating and locking mechanism for awning type windows. 3,044,131, 7–17–62, Cl. 20—42.

Reyner, Charles H., to J. Bain. Seat grinding tool. 3,021,650, 2–20–62, Cl. 51—205.

Reyner, Charles H., to Jay Bain. Faucet stem repair holders. 3,030,830, 4–24–62, Cl. 77—62.

Reynolds, Aaron G. Grade line marker. 3,041,754, 7–3–62, Cl. 37—170.

Reynolds, Adele W. Beach drag. 3,046,031, 7–24–62, Cl. 280—8.

Reynolds, Albert A. Tearstrip removing guide. 3,034,681, 5–15–62, Cl. 220—52.

Reynolds, Alfred O. Method of packing seedling plants for shipment. 3,022,605, 2–27–62, Cl. 47—58.

Reynolds, Alfred O. Plant grower assembly. 3,058,263, 10–16–62, Cl. 47—38.

Reynolds, Alfred O., R. H. Plow, and C. W. Snyder, to Willis-Reynolds Corp. Machine for forming molded fibre articles. 3,023,806, 3–6–62, Cl. 162—385.

Reynolds Aluminum Supply Co.: *See*—
Peek, Marion L., and Wahlstrom. 3,055,467.

Reynolds, Andrew C., Jr., to International Business Machines Corp. Decimal to binary translators. 3,021,065, 2–13–62, Cl. 235—155.

Reynolds, Andrew C., Jr., to International Business Machines Corp. Error detection and correction system. 3,024,992, 3–13–62, Cl. 235—174.

Reynolds, Andrew C., Jr., to International Business Machines Corp. Sum modulo ten accumulator. 3,030,020, 4–17–62, Cl. 235—169.

Reynolds, Andrew C., Jr., to General Time Corp. Binary code relay. 3,058,095, 10–9–62, Cl. 340—164.

Reynolds, Charles H.: *See*—
Persson, Sten L., and Reynolds. 3,015,477.
Walker, Watson F., and Reynolds. 3,035,184.

Reynolds, David J., to ACF Industries, Inc. Lading container. 3,061,133, 10–30–62, Cl. 220—1.5.

Reynolds, David P., to Reynolds Metals Co. Package. 3,062,373, 11–6–62, Cl. 206—65.

Reynolds, Delbert D.: *See*—
Fountain, Jane O., and Reynolds. 3,043,880.

Reynolds, Dennis G., and I. K. Gurney; said Reynolds assor. to said Gurney. Throttle for model engines. 3,054,604, 9–18–62, Cl. 261—59.

Reynolds, Donald, to R. Z. Greene as trustee. Filter tape coffee brewer. 3,046,869, 7–31–62, Cl. 99—289.

Reynolds, Donald S., and O. E. Werner, to Automatic Canteen Co. of America. Dispenser for a coffee brewing apparatus. 3,047,194, 7–31–62, Cl. 222—242.

Reynolds, Earl C. Automatic water softener system including a pressurized brine tank, control valve, valve operating means, and/or timer combinations. 3,023,964, 4–10–62, Cl. 210—140.

Reynolds, Edward A., to Shell Oil Co. Floating screens for use in liquid storage tanks. 3,029,971, 4–17–62, Cl. 220—26.

Reynolds, Edward E. : *See*—
Dyrkacz, Wasil W., Reynolds, and Aggen. 3,065,068.
Pitler, Richard K., Reynolds, and Aggen. 3,051,565.
Reynolds, Eugene E. : *See*—
Edwards, Richard A., and Reynolds. 3,017,088.
Reynolds, Eugene E., to Smith-Corona Marchant, Inc. Spring powered key mechanism. 3,017,089, 1–16–62, Cl. 235—145.
Reynolds, Eugene E., C. A. Lindberg, H. T. Avery, G. E. Munzing, and W. E. Thomas, to Smith-Corona Marchant Inc. Calculating machines. 3,019,971, 2–6–62, Cl. 235—63.
Reynolds, Eugene E., and W. E. Thomas, to Smith-Corona Marchant Inc. Decimal point indicator means. 3,043,502, 7–10–62, Cl. 235—61.
Reynolds, Frederick N., to The F. A. Neider Co. Furniture glide mount. 3,025,631, 3–20–62, Cl. 45—137.
Reynolds, Frederick W. : *See*—
Mattke, Charles F., and Reynolds. 3,021,428.
Reynolds Gas Regulator Co. : *See*—
Hughes, George C. 3,023,093.
Reynolds, George A., to FMC Corp. Earth moving apparatus. 3,060,601, 10–30–62 Cl. 37—126.
Reynolds, George A., to FMC Corp. Earth moving vehicle. 3,067,888, 12–11–62, Cl. 214—140.
Reynolds, George A., Jr. : *See*—
Cilker, William H., and Reynolds. 3,068,134.
Reynolds, George W., to Standard Coil Products Co., Inc. Bilateral parametric amplifier. 3,046,363, 7–24–62, Cl. 179—170.
Reynolds, Grover C. Dental device for obtaining the centric relation of the jaws. 3,059,335, 10–23–62, Cl. 32—19.
Reynolds, Harlan K. : *See*—
Gerrard, John A. F., and Reynolds. 3,035,771.
Reynolds, Harold B., and D. A. Ward, to Tiletronics Technicians, Inc. Ignition system. 3,026,863, 3–27–62, Cl. 123—148.
Reynolds, Harold C. : *See*—
Garber, John D., Jones, and Reynolds. 3,025,307.
Reynolds, Harry W. : *See*—
Wheatley, Seth J., and Reynolds. 3,067,502.
Reynolds, Henry E. Truck for transporting filing cabinets. 3,024,036, 3–6–62, Cl. 280—79.1.
Reynolds, Horace H., 25% to F. Berlin, 25% to R. Houston, and 25% to R. Houston, trustee. Paraffin cleaner for tubing. 3,034,581, 5–15–62, Cl. 166—174.
Reynolds, Jack H. : *See*—
Perry, Franklin W., and Reynolds. 3,047,218.
Reynolds, James A., to Tokheim Corp. Header for submerged pump and motor unit. 3,020,849, 2–13–62, Cl. 103—87.
Reynolds, John A. Tub and shower mat with magnetic holding means. 3,020,562, 2–13–62, Cl. 4—185.
Reynolds, John A. Bath tub mat with magnetic holding means. 3,034,140, 5–15–62, Cl. 4—185.
Reynolds, John D. : *See*—
Wright, Esmond P. G., and Reynolds. 3,024,448.
Reynolds, John E. Arched shelter structure. 3,051,185, 8–28–62, Cl. 135—3.
Reynolds, John T. : *See*—
Sutton, Robert W., and Reynolds. 3,026,070.
Reynolds, Julian L., to Reynolds Metals Co. Submersible pressure vessel. 3,029,966, 4–17–62, Cl. 220—5.
Reynolds, Kennett R. Roller-die apparatus. 3,035,628, 5–22–62, 153—48.
Reynolds, Leonard G. Control apparatus for a tow cable. 3,034,742, 5–15–62, Cl. 242—86.5.
Reynolds, Lloyd W. Drinking cup. 3,065,606, 11–27–62, Cl. 62—1.
Reynolds, Manning S. : *See*—
Jankowski, Conrad M., Hyde, Reynolds, and Thoburn. 3,026,182.
Reynolds, Marlyn W. Agricultural dispensing hopper. 3,064,861, 11–20–62, Cl. 222—178.
Reynolds Metals Co. : *See*—
Albers, John P., and Huber. 3,027,142.
Balfour, Joseph, and Revell. 3,034,879.
Barnes, Frederick J., and Neuhauser. 3,015,255.
Baroni, Giorgio A. 3,027,687.
Baxter, Bruce L. 3,062,335.
Baxter, Bruce L. 3,062,336.
Beneke, Charles J. 3,054,176.
Brandon, Richard N. 3,027,046.
Brandon, Richard N. 3,0 9 970.
Brown, Robinson W. 3,063,395.
Burkhart, Reginald K., Vogel, and Black. 3,039,147.
Cheeley, William E. 3,017,729.
Cheeley, William E. 3,038,234.
Cheeley, William E., and MacPherson. 3,036,416.
Cybriwsky, Alexander, and Hager. 3,016,293.
De Ridder, Ernst J. 3,055,461.
De Ridder, Ernst J., and Glaser. 3,062,264.
De Ridder, Ernst J., and Swenck. 3,062,338.
Early, Rex G., and De Ridder. 3,029,052.
Emmons, Neal L., and Karpuk. 3,034,874.
Fritzlen, Thomas L. 3,044,911.
Fritzlen, Thomas L. 3,056,701.
Gahlinger, Clarence J. 3,048,916.
Gahlinger, Clarence J. 3,053,211.
Gahlinger, Clarence J. 3,060,881.
Grogel Merrill A. 3,051,346.
Hedgecock, Durwood J., Lewis, and Nielsen. 3,055,241.
Jacke, Raymond E. 3,062,432.
Mack, Grant V., and Gerhardt. 3,058,203.
McLean, John O., Fritzlen, and Hendrick. 3,051,536.
Reynolds Metals Co. : *See*—Continued
Murphy, Alfred M., Filak, and Wagner. 3,019,144.
Nagle, Garrett S., and Roberson. 3,049,229.
Neuhauser, William J., and Villiers. 3,067,073.
Pollock, Orthello B. 3,016,137.
Revell, Donald H., and Fulk. 3,035,316.
Reynolds, David P. 3,062,373.
Reynolds, Julian L. 3,029,966.
Reynolds, William G. 3,069,763.
Robinson, Grover, C., Jr. 3,061,485.
Rutledge, George A. 3,062,430.
Singleton, Ogie R., Jr. 3,046,640.
Staley, John. 3,035,156.
Staples, Paul R. 3,015,878.
Webster, John L. 3,051,078.
Wilson, John B. 3,034,683.
Reynolds, Myron B., to General Electric Co. Nuclear reactor fuel. 3,043,761, 7–10–62, Cl. 204—193.2.
Reynolds, Noel S. Piston and expander assembly for hydraulic actuating cylinder. 3,064,430, 11–20–62, Cl. 60—54.6.
Reynolds, R. J., Tobacco Co. : *See*—
Henley, Walter M. 3,041,111.
Schumacher, Joseph N., Henley, Bernasek, and Teague. 3,050,532.
Sherrill, Joseph H. 3,037,683.
Teague, Claude E., Jr., James, and Mays. 3,060,172.
Reynolds, Reginald, and P. H. Stammers, to Acrow (Engineers) Ltd. Hydraulic props. 3,046,947, 7–31–62, Cl. 121—46.
Reynolds, Reginald, and P. H. Stammers, to Acrow (Engineers) Ltd. Props or jacks. 3,046,949, 7–31–62, Cl. 121—46.
Reynolds, Richard H., and A. L. Askew, Jr., to United Carbon Co., Inc. Fluid seal valve. 3,045,692, 7–24–62, Cl. 137—240.
Reynolds, Richard J., and S. H. Ruetman, to Shell Oil Co. Vulcanization of elastomers. 3,047,552, 7–31–62, Cl. 260—88.2.
Reynolds, Richard W., and W. C. Johnson, to Olin Mathieson Chemical Corp. Metal fabrication. 3,015,157, 1–2–62, Cl. 29—470.9.
Reynolds, Robert C., Jr. :*See*—
Frederickson, Arman F., Hower, and Reynolds.
Reynolds, Walter F., Jr., and N. T. Woodberry, to American Cyanamid Co. Web-forming fibrous suspensions of improved freeness. 3,019,157, 1–30–62, Cl. 162—168.
Reynolds, William B. : *See*—
Doss, Richard C., and Reynolds. 3,018,619.
Reynolds, William B., to Phillips Petroleum Co. Emulsion polymerization in the presence of a catalyst comprising an arylcyclohexane hydroperoxide. 3,049,519, 8–14–62, Cl. 260—84.1.
Reynolds, William G., to Reynolds Metal Co. Method and apparatus for making plastic lined continuously welded aluminum tubing. 3,069,763, 12–25–62, Cl. 29—429.
Reynolds, Wylee M., to Graham Industries, Inc. Door operator mechanism. 3,048,385, 8–7–62, Cl. 268—59.
Reynolds, Zack D., to General Dynamics Corp. Circuit network for variably sequencing signals. 3,061,816, 10–30–62, Cl. 340—147.
Reynolds, Zack D., to United States of America, Navy. Method of recording a multiple of electrical signals. 3,068,-454, 12–11–62, Cl. 340—174.1.
Reynst, Maximillen F., to North American Philips Co., Inc. Multipolar permanent magnetic brake. 3,062,977, 11–6–62, Cl. 310—93.
Reza, Syed K., to Westinghouse Electric Corp. Overspeed protection for adjustable speed drives. 3,059,159, 10–16–62, Cl. 318—46.
Rezabek, Vernon E., to International Harvester Co. Earth working scraper with sequential hydraulic operating system. 3,039,211, 6–19–62, Cl. 37—129.
Reznick, Louis. Safety guards for brakes. 3,067,798, 12–11–62, Cl. 153—21.
Reznowski, Julian H., to Industrial Electronics Inc. Metal detector. 3,061,775, 10–30–62, Cl. 324—41.
Rezolin Inc. : *See*—
Miller, Leon R., and Taylor. 3,026,749.
Rezzonico, Carlo, to Comerio Ercole S.p.A. Machine for wide rinsing a fabric. 3,037,370, 6–5–62, Cl. 68—158.
Rheem Mfg. Co. : *See*—
Luxton, Dean H., and Corrigan. 3,052,041.
Orlins, Martin A. 3,019,753.
Skinner, Burrhus F. 3,056,215.
Von Berg, Richard E., and Laurent. 3,020,969.
Von Berg, Richard E., and Pfeifer. 3,053,990.
Rhein, John H. W., to E. I. du Pont de Nemours and Co. Spool assembly. 3,036,792, 5–29–62. Cl. 242—118.2.
Rhein, John H. W., Jr., to E. I. du Pont de Nemours and Co. Method of repairing a yarn break. 3,034,736, 5–15–62, Cl. 242—18.
Rheinberger, Peter : *See*—
Kraus, Thaddäus, and Rheinberger. 3,034,924.
Rheinberger, Vincent P., Jr., to Hunt-Pierce Corp. Reel loader. 3,036,790, 5–29–62, Cl. 242—86.5.
Rheingold Lawrence M. : *See*—
Berlin, Milton, and Rheingold. 3,048,069.
Rheingold, Lawrence M., and M. Berlin, to Templet Industries, Inc. Die set for drawing and shaping sheet metal. 3,022,758, 2–27–62, Cl. 113—46.
Rheinische Werkzeug- und Metallwarenfabrik G.m.b.H. : *See*—
Bruninghaus, Paul. 3,039,012.

Rheinmetall G.m.b.H., Firma : *See*—
Backstein, Günter, and Berger. 3,070,013.
Menneking, Hartmut. 3,025,766.
Seifried, Paul. 3,036,500.
Zeidler, Willi. 3,042,154.
Zeidler, Willi. 3,056,473.
Rheinpreussen Aktiengesellschaft fur Bergbau und Chemie : *See*—
Grimme, Walter, and Schmitz. 3,029,274.
Wollner, Johannes. 3,015,665.
Wollner, Johannes. 3,024,249.
Rheinstahl Hamburg Stahlbau Eggers & Friedrich Kehrhahn G.m.b.H. : *See*—
Landschulze, Ernst A. 3,017,963.
Rheinstahl Siegener Eisenbahnbedarf A.G. : *See*—
Brill, Friedrich E. 3,017,674.
Brill, Friedrich E., and Trümper. 3,041,985.
Rheinstahl Wanheim G.m.b.H. : *See*—
Lutz, Hermann. 3,055,463.
Rhem, William F. : *See*—
West, Clitton F., Wethington, and Rhem. 3,051,285.
Rheostatic Co. Ltd., The : *See*—
Burckhardt, Christof W. 3,042,107.
Rhoad, James E. : *See*—
Hart, Robert H., Platt, Thomas, and Rhinehart. 3,059,-319.
Rhinehart, Wayne A. : *See*—
Fowler, Eric B., and Rhinehart. 3,027,458.
Fowler, Eric B., and Rhinehart. 3,033,986.
Rhinevault, Catherine E. : *See*—
Brown, Jess. 3,041,620.
Rhoad, Guy C. : *See*—
Gibson, Richard R., and Rhoad. 3,018,363.
Rhoades, John M. : *See*—
Ertell, Glenn G., and Rhoades. 3,062,996.
Rhoades, John M., and G. L. Rogers, to General Electric Co. Angle and arcuate position control system. 3,035,216, 5–15–62. Cl. 318—162.
Rhoades, Nolan K., to The Parker Pen Co. Writing instruments. 3,046,943, 7–31–62, Cl. 120—42.03.
Rhoades, Nolan K., to The Electric Storage Battery Co. Lantern construction. 3,053,978, 9–11–62, Cl. 240—10.63.
Rhoades, Robert B. : *See*—
Faulkner, Willard J., and Rhoades. 3,043,533.
Rhoads, George D., V. L. Pelekii, and B. H. Carson, to Federal-Mogul-Bower Bearings, Inc. Unitized shaft seal. 3,021,161, 2–13–62, Cl. 277—37.
Rhoads, Millard A., to Auto Specialties Mfg. Co. Positioning apparatus. 3,030,073, 4–17–62, Cl. 254—7.
Rhoda, Ralph A. : *See*—
Barnes, Robert H., and Rhoda. 3,030,909.
Rhodes, Aaron D., and H. Stratton, to Shell Oil Co., Continental Oil Co., The Superior Oil Co., and Union Oil Co. of California. Casing support. 3,017,934, 1–23–62, Cl. 175—7.
Rhodes, Alan : *See*—
Butler, Thomas A., and Rhodes. 3,070,546.
Rhodes, Alex, and S. Charnow. Clips. 3,049,774, 8–21–62, Cl. 24—87.
Rhodes, Allen F. : *See*—
Burns, Ray S., Rhodes, and Eichenberg. 3,059,698.
Jackson, John G., Jr., and Rhodes. 3,017,931.
Rhodes, Allen F., to McEvoy Co. Well completion apparatus. 3,028,917, 4–10–62, Cl. 166—75.
Rhodes, Chester R., to Hurletron Inc. Ball contacting device. 3,024,334, 3–6–62, Cl. 200—166.
Rhodes, Chester R. Electrical connector. 3,067,401, 12–4–62, Cl. 339—63.
Rhodes, Donald W., J. R. McHenry, and L. L. Ames, Jr., to United States of America, Atomic Energy Commission. Method of removing strontium ions. 3,032,497, 5–1–62, Cl. 210—38.
Rhodes, Harrison B. : *See*—
Mays, Rolland L., Rhodes, and Leavitt. 3,069,362.
Mays, Rolland L., Rhodes, and Leavitt. 3,069,363.
Rhodes, Ignace, and R. M. Schotland, to Electro Dispersion Corp. Pan greasing method and apparatus. 3,065,106, 11–20–62, Cl. 117—93.
Rhodes, James H., & Co. : *See*—
Rzeszutko, Joseph G., and Lawler. 3,029,493.
Rhodes, James L., and R. C. Hug, to The Clayton Corp. of Delaware. Pressure dispenser valve having gas inlet. 3,036,743, 5–29–62, Cl. 222—394.
Rhodes, John E., to General Electric Co. Washing machine. 3,026,699, 3–27–62, Cl. 68—12.
Rhodes, Joseph C. : *See*—
Jacobs, Robert B., and Rhodes. 3,037,375.
Rhodes, Joseph C., to Standard Oil Co. Feed system for automatic end point apparatus. 3,021,704, 2–20–62, Cl. 73—17.
Rhodes, Junior I. : *See*—
Manke, Arthur G., and Rhodes. 3,035,171.
Rhodes, Junior I., to General Electric Co. Signal receiving apparatus. 3,046,486, 7–24–62, Cl. 329—138.
Rhodes, Keith H. : *See*—
May, Claude H., and Rhodes. 3,055,593.
May, Claude H., and Rhodes. 3,066,662.
Rhodes, M. H., Inc. : *See*—
Laviana, Lawrence J. 3,069,073.
Rhodes, Melvin H., and H. I. Walker, to Collins Radio Co. Aircraft guidance system. 3,041,607, 6–26–62, Cl. 343—107.
Rhodes, Philip H., to Swift & Company. Method for applying a mixture of a vinyl halide polymer and an epoxidized triglyceride on a wire and the resulting article. 3,055,778, 9–25–62, Cl. 117—232.
Rhodes, Philip H., and T. W. Findley, to Swift & Co. Vinyl resin-epoxy fatty acid coating composition, method and article. 3,047,415, 7–31–62, Cl. 117—21.
Rhodes, Roland N., to Radio Corp. of America. Color television demodulation system. 3,020,338, 2–6–62, Cl. 178—5.4.
Rhodes, Roland N., and J. Avins, to Radio Corp. of America. Noise protection circuit for television receivers. 3,046,335, 7–24–62, Cl. 178—7.3.
Rhodes, Thomas J. : *See*—
Lehti, Henry J., Merck, and Rhodes. 3,030,623.
Merck, William A., Olson and Rhodes. 3,029,476.
Merck, William A., and Rhodes. 3,038,523.
Rhodes, William H., to Standard Ultramarine & Color Co. Prussian blue pigment. 3,021,191, 2–13–62, Cl. 23—77.
Rhodes, William H., J. G. Brenza, W. D. Winger, and R. C. Jackson, to International Business Machines Corp. Multiplying computer. 3,049,295, 8–14–62, Cl. 235—156.
Rhone-Poulenc, Societe des Usines Chimiques : *See*—
Ortoli, Claire, and Reverchon. 3,031,507.
Rhoten, Carey D. Record album. 3,063,619, 11–13–62, Cl. 229—68.
Rhyner, Paul : *See*—
Grossmann, Paul, and Rhyner. 3,036,078.
Rianhard, Lockwood, Jr. Remote control actuated chemical-nuclear powered communication system. 3,049,709, 8–14–62, Cl. 343—225.
Riat, Henri, R. de Montmollin, and K. Seitz, to Ciba Ltd. Azo-dyestuffs. 3,040,024, 6–19–62, Cl. 260—196.
Ribaudo, Tony. Ironing board construction. 3,045,372, 7–24–62, Cl. 38—121.
Ribback, Eric. Apparatus for cold-reducing elongated metallic shock. 3,044,326, 7–17–62, Cl. 78—21.
Ribbens, Jacob J. : *See*—
Dethardt, Richard C., and Ribbens. 3,033,378.
Ribbens, Jacob J., H. M. Leete, and F. S. Foote, Jr., to Tab Products Co. Filing drawer and front construction for same. 3,022,595, 2–27–62, Cl. 40—325.
Ribbens, Jacob J., and R. C. Dethardt, to Tab Products Co. Suspension framework. 3,031 088, 4–24–62. Cl. 211—176.
Ribbens, Jacob J., and R. C. Dethardt, to Tab Products Co. Guide. 3,033,634, 5–8–62, Cl. 312—219.
Ribbens, Jacob J., and R. D. Dethardt, to Tab Products Co. Suspension framework. 3,067,882, 12–11–62, Cl. 211—136.
Ribchester, Eric, to Hazeltine Research, Inc. Sound carrier as source of automatic chroma control voltage. 3,024,304, 3–6–62, Cl. 178—5.4.
Ribchester, Eric, to Hazeltine Research, Inc. Means for disabling chrominance channel during luminance signal adjustment. 3,035,117, 5–15–62. Cl. 178—5.4.
Ribka, Joachim, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. New disazo-dyestuffs insoluble in water. 3,025 287, 3–13–62, Cl. 260—176.
Ribka, Joachim, to Farbwerke Hoescht Aktiengesellschaft vormals Meister Lucius & Bruning. New disazo-dyestuffs insoluble in water. 3,030.354, 4–17–62, Cl. 260—176.
Rible, Vincent E. Cable splicing device. 3,040,402, 6–26–62, Cl. 24—123.
Riblet, Henry B., to United States of America, Navy. Broad band spherical antenna. 3,034,121, 5–8–62, Cl. 343—770.
Riblet, Henry B., to Vitro Corp. of America. Apparatus for producing template used in automatic data plotter. 3,043,189, 7–10–62. Cl. 88—24.
Riblet, Henry J. Microwave filters. 3,035,236, 5–15–62, Cl. 333—73.
Ribner, Morris : *See*—
Lamin, Leonard, and Ribner. 3,060,271.
Radcliffe, Arthur J., Jr., Ribner, and Sayner. 3,029,315.
Ribner, Morris, to International Telephone and Telegraph Corp. Pulse code generator employing saturable reactors having different saturating times to respective delay. 3,065,363, 11–20–62, Cl. 307—88.5.
Ribovich, John : *See*—
Damon, Glenn H., Ribovich, and Herickes. 3,069,300.
Ricard, Pierre-Jean, to Commissariat a l'Energie Atomique. Boiling water atomic reactor. 3,041,264, 6–26–62, Cl. 204—193.2.
Ricard, Raymond : *See*—
Gregoire, Ferdinand, and Ricard. 3,028,218.
Ricardo & Co., Engineers (1927) Ltd. : *See*—
Powell, Gerald R. 3,039,700.
Ricards, Charles L. : *See*—
Tollison, Paul L., and Ricards. 3,052,933.
Riccar Sewing Machine Co., Ltd. : *See*—
Critelli, Louis J., and Riccio. 3,065,654.
Shimada, Saburo. 3,062,164.
Shimada, Saburo. 3,067,702.
Ricci, Henry, to Outboard Marine Corp. Saw chain. 3,050,-094, 8–21–62. Cl. 143—135.
Ricci, Peter J. Open end ratchet wrench. 3,067,641, 12–11–62, Cl. 81—61.
Rice, Albert E. and F. A. Casters. 3,040,371, 6–26–62, Cl. 16—31.
Rice, Arthur R., and F. N. Wilder, to E. I. du Pont de Nemours and Co. Aqueous adhesive composition comprising polychloroprene, lubricating oil and polysaccharide. 3,062,762, 11–6–62, Cl. 260—17.

Rice Barton Corp. : *See*—
Cirrito, Anthony J. 3,034,577.
Cirrito, Anthony J. 3,055,421.
Krikorian, Garo. 3,055,251.

Rice, Charles M. : *See*—
Cobb, John, Rice, Ross, and Sauer. 3,042,595.

Rice, Charles M., and American Enka Corp. Cone marker. 3,060,890, 10–30–62, Cl. 118—243.

Rice, Charles M., and M. A. Sullivan, to American Enka Corp. Clutch for thread collecting machines. 3,026,055, 3–20–62, Cl. 242—46.5.

Rice, Curtis D. : *See*—
Buttery, Kenneth T., and Rice. 3,042,284.
Buttery, Kenneth T., and Rice. 3,059,283.

Rice, David R. : *See*—
Finlay, Alexander, and Rice. 3,038,050.
Finlay, Alexander, and Rice. 3,062,942.

Rice, Edgar C. : *See*—
Noble, Jack D., Bentley, and Rice. 3,033,381.
Noble, Jack D., Bentley, and Rice. 3,033,382.

Rich, Everett W. Three wheeled coasters. 3,059,943, 10–23–62, Cl. 280—87.02.

Rice, Ford A. : *See*—
Rice, Albert E. and F. A. 3,040,371.

Rice, Gordon L., to Purex Corp., Ltd. Cleaning tank closure apparatus. 3,051,457, 8–28–62, Cl. 259—121.

Rice, Harold W. : *See*—
Houser, Roy W., and Rice. 3,036,470.

Rice, Herbert C., ¼ to Midland Adhesive & Chemical Corp. Vehicle seat assembly. 3,027,192, 3–27–62, Cl. 297—308.

Rich, Herschel M., to Phil Rich Fan Mfg. Co., Inc. Heat exchanger. 3,058,722, 10–16–62, Cl. 257—137.

Rice, John C., to Lowe Paper Co. Method of producing a high finish on paper products. 3,028,258, 4–3–62, Cl. 117—64.

Rice, Joseph : *See*—
Wright, Esmond P. G., and Rice. 3,024,993.
Wright, Esmond P. G., and Rice. 3,025,351.
Wright, Esmond P. G., and Rice. 3,039,689.

Rice, Leonard L. : *See*—
Mahoff, George A., and Rice. 3,048,427.

Rice, Leonard M. : *See*—
Grogan, Charles H., and Rice. 3,069,424.

Rice, Livingston L. : *See*—
Netherwood, Paul H., and Rice. 3,048,750.

Rice, Louis P. : *See*—
Nagy, Roland L., and Rice. 3,053,641.

Rice, Lyman A. : *See*—
Renner, Glen R., and Rice. 3,017,563.

Rice, Lyman A., to General Motors Corp. Electromagnetic device. 3,047,693, 7–31–62, Cl. 200—98.

Rice, Millard L. : *See*—
Scurlock, Arch C., Rice, and Wales. 3,028,125.

Rice, Owen, and D. M. Stough, to Hagan Chemicals & Controls Inc. Apparatus for measuring weight loss of meat products in the smoke house. 3,050,144, 8–21–62, Cl. 177—1.

Rice, Owen R., to Koppers Co., Inc. Ultra high pressure blast furnace. 3,045,996, 7–24–62, Cl. 266—31.

Rice, Philip K. : *See*—
First, Vincent E., Potts, Rice, and Yendall. 3,059,439.

Rice, Ray E. : *See*—
Mackey, E Scudder, and Rice. 3,053,662.

Rice, Richard E. : *See*—
Rand, William M., Rice, Shaver, and Whitney. 3,035,903.

Rice, Richard L., and C. O. Riker, to Stapling Machines Co. Wirebound box end attaching machine. 3,032,074, 5–1–62, Cl. 140—93.

Rice, Robert, M. J. Sisk, and J. L. Thompson. Cigarette box. 3,065,849, 11–27–62, Cl. 206—48.

Rice, Robert A. : *See*—
Lefebvre, Arthur H., Rice, and Tindale. 3,043,101.

Rice, Robert D. : *See*—
Fields, Marvin C., and Rice. 3,054,726.

Rice, Robert D., to United States Steel Corp. Method of recovering ammonia from coke-oven gases. 3,024,090, 3–6–62, Cl. 23—196.

Rice, Roger P. Jr., to Time, Inc. Winding machine. 3,018,062, 1–23–62, Cl. 242—50.

Rice, Theodore : *See*—
Donaldson, Robert E., Offutt, and Rice. 3,062,735.

Rice, Vernon E., to The Goodyear Tire & Rubber Co. Extruding apparatus. 3,015,844, 1–9–62, Cl. 18—12.

Rice, Virgil C., to Borg-Warner Corp. Auxiliary oven for a range. 3,051,157, 8–28–62, Cl. 126—19.

Rice, Warren A., ½ to C. E. Grebe. Folded speaker enclosure. 3,032,137, 5–1–62, Cl. 181—31.

Rice, Willard H. Humidifier. 3,038,708, 6–12–62, Cl. 261—66.

Rice, William W. Door latch. 3,039,806, 6–19–62, Cl. 292—293.

Rich, Donald G., to Carrier Corp. Air conditioning apparatus. 3,050,959, 8–28–62, Cl. 62—305.

Rich, Donald J., and C. H. Carson, to Ferrotec, Inc. Variable attenuator. 3,056,097, 9–25–62, Cl. 333—81.

Rich, Elvis : *See*—
Peters, Beldon A., and Rich. 3,047,072.

Rich, Howard B., to Howard B. Rich, Inc. Stepladder. 3,022,857, 2–27–62, Cl. 182—222.

Rich, Howard B., Inc. : *See*—
Rich, Howard B. 3,022,857.

Rich, John P., to Improved Machinery Inc. Discharge for a continuous rotary filter. 3,052,201, 5–1–62, Cl. 210—386.

Rich, John P., to Improved Machinery Inc. Coaxial breaker conveyor and feeder. 3,059,862, 10–23–62, Cl. 241—152.

Rich, John P., to Improved Machinery Inc. Continuous pulping apparatus. 3,061,007, 10–30–62, Cl. 162—237.

Rich, Lemuel W. Tractor track rake. 3,035,872, 5–22–62, Cl. 305—12.

Rich, Louis, Machine Corp. : *See*—
Martines, Joseph. 3,036,534.

Rich Mfg. Corp. : *See*—
Kirkpatrick, Leland W., and Reusch. 3,037,494.

Rich, Phil, Fan Mfg. Co., Inc. : *See*—
Rich, Hershal M. 3,058,722.

Rich, Ralph C. : *See*—
O'Donnell, Edward P. 3,015,181.

Rich, Sidney L., to Lenardo Cigar Corp. Cigar using homogenized leaf. 3,046,993, 7–31–62, Cl. 131—8.

Rich, Stanley R., to General Ultrasonics Co. System for sensing a change in an ambient condition. 3,050,720, 8–21–62, Cl. 340—244.

Rich, Theodore A. : *See*—
Bigelow, John E., Van Luik, Dunham, and Rich. 3,037,-

Rich, Theodore A., to United States of America, Navy. Apparatus for indicating pressure in fluid system. 3,067,614, 12–11–62, Cl. 73—398.

Richard, Allan C. : *See*—
Munsey, Charles A., Campbell, and Richard. 3,033,808.

Richard, Andre M. : *See*—
Raymond, Francois H., Richard, Recoque, and Brodin. 3,058,098.

Richard, André M., to Societe d'Electronique et d'Automatisme. Magnetic core devices for handling binary informations. 3,041,584, 6–26–62, Cl. 340—174.

Richard, Charles D., and A. W. Ziegler ; said Richard assor. to said Ziegler. Device for recording the speed of shutters in photographic apparatus. 3,046,555, 7–24–62, Cl. 346—108.

Richard, Douglas B. Device for unrolling the canvas top of a trailer. 3,041,104, 6–26–62, Cl. 296—100.

Richard, Fabien A., to Etablissements Hutchinson (Compagnie Nationale du Cooutchoue). Pneumatic assembly for a vehicle wheel. 3,064,704, 11–20–62, Cl. 152—339.

Richard, Joseph D. Cash register locking system. 3,061,185, 10–30–62, Cl. 235—22.

Richard, Léon : *See*—
Kohli, Benjamin, and Richard. 3,045,662.

Richard, Leslie E., to S. D. Warren Co. Planographic printing plates. 3,020,839, 2–13–62, Cl. 101—149.2.

Richard, Robert R., to United States of America, Air Force. Device for measuring the root mean square value of a slowly varying voltage. 3,054,951, 9–18–62, Cl. 324—106.

Richard, William R., Jr. : *See*—
Calfee, John D., Richard, and Erbaugh. 3,061,603.

Richards Arthur F., to Richards Shear Co. Double cutting metal shears. 3,039,343, 6–19–62, Cl. 83—165.

Richards, Arthur J. Method of riveting. 3,022,687, 2–27–62, Cl. 78—46.

Richards Bros. & Sons Ltd. : *See*—
Muller, Wilhelm. 3,052,026.

Richards, David C., to Socony Mobil Oil Co., Inc. Counterflow detonation system. 3,055,450, 9–25–62, Cl. 181—5.

Richards, Elmer A., to Borg-Warner Corp. Double acting clutch. 3,032,157, 5–1–62, Cl. 192—87.

Richards, Elmer A., and J. B. Snoy, to Borg-Warner Corp. Hydraulic clutch. 3,064,780, 11–20–62, Cl. 192—86.

Richards, Ernest W., to Parker Rust Proof Co. Method and means for treating metallic surfaces bearing protective coatings. 3,034,933, 5–15–62, Cl. 134—28.

Richards, Frank A., to Ideal Toy Corp. Hair curling machine. 3,055,165, 9–25–62, Cl. 57—29.

Richards, George B. : *See*—
Billeter, Henry R., and Richards. 3,021,861.

Richards, George B., to Liquid Controls Corp. Valve. 3,060,957, 10–30–62, Cl. 137—219.

Richards, Glenn L., to General Dynamics Corp. Pulse shaping circuitry. 3,015,741, 1–2–62, Cl. 307—88.5.

Richards, Glenn L., to General Dynamics Corp. Communication system information transfer circuit. 3,061,681, 10–30–62, Cl. 179—15.

Richards, Graham P. : *See*—
May, Walter C., Richards, and Fites. 3,060,899.

Richards, Grahame P., to Wagner Electric Corp. Lubricating valve. 3,070,288, 12–25–62, Cl. 230—206.

Richards, Henry J. : *See*—
Costello, Charles A., Richards, and Wesolowski. 3,065,-367.

Richards, Howard R. : *See*—
Alexeff, Alexander V., and Richards. 3,045,360.
Alexeff, Alexander V., and Richards. 3,054,547.

Richards, Howard R., and A. V. Alexeff, to Industrial Ovens, Inc. Web guiding and edge stretching means. 3,069,056, 12–18–62, Cl. 226—22.

Richards, James V., to Wilmot Castle Co. Variable intensity lamp. 3,051,869, 8–28–62, Cl. 315—156.

Richards, John A. : *See*—
Spetzler, August L., and Richards. 3,020,682.

Richards, John A. Automatic control for sprinkler system. 3,035,698, 6–19–62. Cl. 239—64.

Richards, John A. Minnow pail water changer. 3,040,469, 6–26–62, Cl. 43—56.

Richards, Joseph D.: *See*—
Roseman, Reuben, Rummery, Richards, and Chrest. 3,037,876.

Richards, Joseph W., to Fels & Co. Method of and apparatus for producing and photographing displays. 3,046,-835, 7–31–62, Cl. 88—24.

Richards, Lorenzo A. Gage attachment and air removal arrangement for soil-moisture tensiometers. 3,043,133, 7–10–62, Cl. 73—73.

Richards, Lorenzo A. Gage assembly and attachment for soil-moisture tensiometers. 3,049,914, 8–21–62, Cl. 73—73.

Richards, Paul, and A. A. Wolf, to General Dynamics Corp. and Fidelity Instrument Corp. Motor generator field control circuit. 3,060,367, 10–23–62, Cl. 322—39.

Richards, Raymond C.: *See*—
Lindemann, Richard J., and Richards. 3,040,159.

Richards, Richard K. Logical circuit. 3,016,466, 1–9–62, Cl. 307—88.5.

Richards, Roger G., and E. R. Osgood, to Diamond Alkali Co. Maleic anhydride-styrene-acrylonitrile terpolymer. 3,015,-653, 1–2–62, Cl. 260—78.5.

Richards, Roger S., to National Research Council. Cardiac diagnostic method. 3,030,946, 4–24–62, Cl. 128—2.06.

Richards Shear Co.: *See*—
Richards, Arthur F. 3,039,343.

Richards, Thomas H. Egg poacher. 3,017,820, 1–23–62, Cl. 99—436.

Richards, Thomas S., and F. C. Howard, to Texaco Inc. Method and apparatus for metering wet gas. 3,048,035, 8–7–62. Cl. 73—200.

Richards-Wilcox Mfg. Co.: *See*—
Brown, Willard D., Jr. 3,045,609.
Burmeister, Albert J., and Brown. 3,056,360.
Burmeister, Albert J., Brown, and Heidinger. 3,048,123.

Richards, William C., and A. Baker. Combination cabinet and stepladder. 3,030,166, 4–17–62, Cl. 312—235.

Richards, William H., Jr., and C. H. Shreve. Ammunition dispensing device. 3,016,167, 1–9–62, Cl. 221—235.

Richardson, Alfred W., to United States of America, Navy. Microwave dosimeter. 3,063,010, 11–6–62, Cl. 325—364.

Richardson, Andrew J.; E. M. Richardson, independent executrix, ⅛ to Wendell Coffee. Life preserver. 3,048,860, 8–14–62, Cl. 9—314.

Richardson, Arthur A. Ignition device. 3,026,451, 3–20–62, Cl. 315—172.

Richardson, Avery G., to International Telephone and Telegraph Corp. Magnetic recording and reproducing apparatus. 3,020,358, 2–6–62, Cl. 179—100.2.

Richardson, Bayard E., deceased; C. V. E. Richardson, and A. B. Doherty, III, executors, to C. V. E. Richardson. Dowell pin sizing machine. 3,068,916, 12–18–62, Cl. 144—12.

Richardson, Charles D., and J. M. Jasniewski, to General Electric Co. Method for making armature conductor bar. 3,050,787, 8–28–62, Cl. 18—59.

Richardson Co., The: *See*—
Boyer, William M., Gavlin, and Tarbell. 3,031,421.
Boyer, William M., Molotsky, and Tarbell. 3,038,875.
Boyer, William M., Shultz, and Zike. 3,043,798.
Gavlin, Gilbert, and Boyer. 3,038,882.
Gavlin, Gilbert, and Hottori. 3,052,669.
Kappel, Henry C. 3,044,922.
Medl, Robert C. 3,038,826.
Molotsky, Hyman M., Boyer, and Tarbell. 3,036,019.
Molotsky, Hyman M., Boyer, and Tarbell. 3,047,527.
Tarbell, Harlan E., Jr. 3,036,041.

Richardson, Curtis: *See*—
Beames, Geoffrey H., Gilbert, Richardson, and Veldhuis. 3,034,952.

Richardson, Curtis V. E.: *See*—
Richardson, Bayard E. 3,068,916.

Richardson, Donald, to W. R. Grace & Co. Clip crimping apparatus. 3,015,824, 1–9–62, Cl. 1—329.

Richardson, Donald E., to United States of America, Navy. Single action magnetos. 3,052,803, 9–4–62, Cl. 310—36.

Richardson, Dorothy L.: *See*—
Richardson, Jack G. and D. L. 3,024,025.

Richardson, Eava M.: *See*—
Richardson, Andrew J. 3,048,860.

Richardson, Elmer L. Garment form retainer. 3,040,940, 6–26–62, Cl. 223—71.

Richardson, Elwin J., Jr.: *See*—
Johnson, David A., and Richardson. 3,015,676.

Richardson, Floyd V.: *See*—
Pritchett, Ray A. 3,018,374.
Pritchett, Ray A. 3,052,353.

Richardson, George K.: *See*—
Newton, Albert E., and Richardson. 3,039,949.

Richardson, Harry L., to Curtiss-Wright Corp. Toroidal transmission damping mechanism. 3,048,047, 8–7–62, Cl. 74—200.

Richardson, Jack G. and D. L. Amusement device. 3,024,-025, 3–6–62, Cl. 273—102.2.

Richardson, James A., to Unipak Cartons Ltd. Cartons. 3,070,276, 12–25–62, Cl. 229—15.

Richardson, James T., to Esso Research and Engineering Co. Control of catalytic conversion of hydrocarbons. 3,017,256, 1–16–62, Cl. 23—288.

Richardson, John R., to United States of America, Army. Calibration valve. 3,049,148, 8–14–62, Cl. 137—625.4.

Richardson, Joseph W., Jr., to H. K. Porter Co., Inc. Method of manufacture of transformer cores. 3,058,201, 10–16–62, Cl. 29—155.57.

Richardson, Kenneth A., to Nickles Machine Corp. Gas engine fuel injection. 3,062,198, 11–6–62, Cl. 123—1.

Richardson, Lawrence. Combined propelling means and brake for railroad cars. 3,039,402, 6–19–62, Cl. 104—168.

Richardson-Merrell Inc.: *See*—
Allen, Robert E., Andrews, Schumann, and Tilford. 3,031,449.
Avakian, Souren, and Martin. 3,058,981.
Carr, Albert A., Jr., Tilford, and Kuhn. 3,056,784.
Christenson, George B., and Dale. 3,065,143.
Paiopoli, Frank P., and Kuhn. 3,038,905.
Ray, William H. 3,065,131.
Tiernan, Paul L. 3,038,897.
Tilford, Charles H. 3,031,454.

Richardson, Pierce F.: *See*—
Coons, Robert R., and Richardson. 3,049,330.
Virtue, Eugene P., Moyer, and Richardson. 3,065,977.

Richardson, Robert D. Gas analyzing apparatus. 3,064,465, 11–20–62, Cl. 73—27.

Richardson, Robert O.: *See*—
Mintz, Albert E. 3,039,289.

Richardson, Ronald E., to Pittsburgh Plate Glass Co. Method and apparatus for coating glass. 3,021,227, 2–13–62, Cl. 117—37.

Richardson, Ronald E., to Pittsburgh Plate Glass Co. Glass tempering apparatus. 3,024,572, 3–13–62, Cl. 49—45.

Richardson, Ronald E., to Pittsburgh Plate Glass Co. Prepressing of laminated safety glass panels. 3,046,169, 7–24–62, Cl. 154—2.7.

Richardson Taylor-Globe Corp.: *See*—
Mueller, John C., Jr. 3,050,183.

Richardson, Thomas C. Muzzles for carnivorous animals. 3,026,855, 5–8–62, Cl. 119—130.

Richardson, William A., to Outboard Marine Corp. Forged saw chain tooth and a chain employing such a tooth. 3,036,606, 5–29–62, Cl. 143—135.

Richardson, William C., ¼ to J. Damico, ¼ to J. Serenella, and ¼ to M. M. Bassan. Pin and ball channeller. 3,062,-545, 11–6–62, Cl. 273—43.

Richardson, William F., to Flex-O-Lators, Inc. Carton for windshields. 3,044,615, 7–17–62. Cl. 206—62.

Richardson, William F., to Flex-O-Lators, Inc. Wire fabric. 3,060,897, 12–4–62, Cl. 245—5.

Richardson, William F., and G. Sperry, to Flex-O-Lators, Inc. Sewing machine attachment. 3,038,426, 6–12–62, Cl. 112—2.

Richardson, William G.: *See*—
McAulay, Robert, and Richardson. 3,018,346.

Richardsons, Westgarth & Co., Ltd.: *See*—
Starmer, Roy, and Emmett. 3,062,194.

Richaud, Henri: *See*—
Chevigny, Raymond A., and Richaud. 3,033,775.
Riou, Marcel, and Richaud. 3,016,339.
Riou, Marcel, and Richaud. 3,026,255.

Richbourg, John R.: *See*—
Stephens, Roy M., Richbourg, and Gregory. 3,023,480.

Riche, Leonard T. Toothpick holder. 3,042,191, 7–3–62, Cl. 206—37.

Richelsen, Mark. Metal powder purification. 3,032,409, 5–1–62, Cl. 75—55.

Richer, Irving. Corrugated L-shaped suspension bar for garment boxes. 3,057,460, 10–9–62, Cl. 206—7.

Richer, Irving. Garment box. 3,057,461, 10–9–62, Cl. 206—7.

Richer, Irving. Corrugated suspension bar for garment boxes. 3,057,482, 10–9–62, Cl. 211—124.

Richert, Eberhard, and H. Fliegner, to International Standard Electric Corp. Stacking device. 3,051,332, 8–28–62, Cl. 214—7.

Richert, Eberhard, and H. Fliegner, to International Standard Electric Corp. Storage apparatus for article sorting system. 3,051,333, 8–28–62, Cl. 214—7.

Richeson, William E., Jr.: *See*—
Regis, Lawrence J., and Richeson. 3,021,514.

Richey, Clarence B.: *See*—
McKeon, Charles E., and Richey. 3,015,199.
O'Donnell, John F., and Richey. 3,048,443.

Richey, Clarence B., and C. E. McKeon, to Ford Motor Co. Hay pelleting machine. 3,023,559, 3–6–62, Cl. 56—1.

Richey, Clarence B., J. G. St. Clair, and W. R. Smith, to Ford Motor Co. Tractor steering means. 3,038,544, 6–12–62, Cl. 172—5.

Richey, Thomas, Jr.: *See*—
Fox, Thomas H., III, Richey, and Winders. 3,059,908.

Richfield Oil Corp.: *See*—
Chamberlain, Richard O., and Wakefield. 3,051,242.
Hallowell, Dennis F., Jr. 3,020,233.
Hallowell, Dennis F., Jr. 3,053,767.
Hines, Paul R., and Taylor. 3,036,123.
Taylor, Richard P., and Selover. 3,058,997.
Wagner, John W. 3,051,763.

Richieu, S.A.: *See*—
Vivier, Claude. 3,038,268.

Richman, Donald, to Hazeltine Research, Inc. Noise suppressor system for a superregenerative receiver. 3,015,728, 1–2–62, Cl. 250—20.

Richman, Donald, to Hazeltine Research, Inc. Automatic tuning apparatus for a color television receiver. 3,020,-339, 2–6–62, Cl. 178—5.4.

Richman, Henry J., Jr. Hitch for vehicles. 3,037,794, 6–5–62, Cl. 280—449.
Richman, Peter L., to Reeves Instrument Corp. Apparatus for reducing effects of grid current in stabilized amplifiers. 3,065,428, 11–20–62, Cl. 330—9.
Richmond, Alfred : *See*—
Gentle, Alexander H., Richmond, and Tunstall. 3,034,279.
Richmond-Carolina Chemical Corp. : *See*—
Goyette, Lewis E. 3,037,043.
Richmond, George O. : *See*—
Candee, Allan H., and Richmond. 3,044,176.
Richmond, Martin R., and K. Dollinger., to Sanders Associates, Inc. Repeater for countermeasure radar system. 3,044,061, 7–10–62, Cl. 343—18.
Richmond, Nelson R., to The Kaman Aircraft Corp. Clutch mechanism for a helicopter. 3,027,986, 4–3–62, Cl. 192—85.
Richmond Paper Co. : *See*—
Richmond, Robert H. 3,070,280.
Richmond, Robert H., to Richmond Paper Co. Self-sealing envelopes. 3,070,280, 12–25–62, Cl. 229—80.
Richmond, Roy H., to Eagle Mfg. Co. Closure cap and flexible pour spout for storage containers. 3,047,195, 7–31–62, Cl. 222—570.
Richter, Charles W. : *See*—
Erlewine, Richard H., and Richter. 3,041,446.
Richter, Donald L., to Kaiser Aluminum & Chemical Corp. Building construction. 3,026,651, 3–27–62, Cl. 50—52.
Richter, Donald L., to Kaiser Aluminum & Chemical Corp. Structural unit. 3,058,550, 10–16–62, Cl. 189—1.
Richter, Donald L., to Kaiser Aluminum & Chemical Corp. Building structure. 3,063,519, 11–13–62, Cl. 189—1.
Richter, Edwin W. : *See*—
Manahan, John F., and Richter. 3,063,030.
Richter, Elmer W. : *See*—
Winger, Jerrold, Smith, and Richter. 3,069,485.
Richter, Eugen, to H. Fecht. Sauna-installation. 3,066,668, 12–4–62, Cl. 128—172.
Richter, George A. Lawn edging device. 3,041,781, 7–3–62, Cl. 47—33.
Richter, George A., Jr., C. H. McBurney, and B. B. Kine, to Rohm & Haas Co. Process for producing ion-exchange fibers, films, and the like. 3,055,729, 9–25–62, Cl. 18—54.
Richter, Hans. Device for crimping synthetic filaments. 3,034,277, 5–15–62, Cl. 57—77.45.
Richter, Heinz E. : *See*—
Hong, James, Cathaway, Richter, and Hastings. 3,023,985.
Richter, Johan C. F. C., to Aktiebolaget Kamyr. Method of introducing high density pulp into a pressure vessel. 3,041,233, 6–26–62, Cl. 162—18.
Richter, Johan C. F. C. and O. J., to Aktiebolaget Kamyr. Method of continuous cellulose digestion and digester apparatus for practicing said method. 3,041,232, 6–26–62, Cl. 162—17.
Richter, John E. : *See*—
Gould, Russell D., and Richter. 3,020,695.
Richter, John W., to E. I. du Pont de Nemours and Co. Basic dyes of the quinophthalone series. 3,023,212, 2–27–62, Cl. 260—286.
Richter, John W., to E. I. du Pont de Nemours and Co. Esters and amides of 3′-hydroxyquinophthalone-5-carboxylic acid and derivatives thereof. 3,023,213, 2–27–62, Cl. 260—287.
Richter, John W., to E. I. du Pont de Nemours and Co. 3′-hydroxyquinophthalone-5-carboxylic acid and derivatives thereof. 3,023,214, 2–27–62, Cl. 260—287.
Richter, John W., and E. Nawa, to Baxter Laboratories, Inc. Parenteral solution equipment and method of using same. 3,033,202, 5–8–62, Cl. 18—272.
Richter, Magdoline R. Fitted bed sheet. 3,045,260, 7–24–62, Cl. 5—334.
Richter, Ole J. : *See*—
Richter, Johan C. F. C. and O. J. 3,041,232.
Richter, Richard C., to Nopco Chemical Co. Condensation of urea, ethylene oxide and polyhydric alcohols. 3,038,008, 6–5–62, Cl. 260—553.
Richter, Richard C., and H. A. Batley, to Nopco Chemical Co. Preparation of salts of naphthalene sulfonic acid-formaldehyde condensates. 3,067,243, 12–4–62, Cl. 260—505.
Richter, Sidney, to Velsicol Chemical Corp. Polyhalogen containing 1-isothiocyano-methyl bicyclo (2.2.1)-1,4-heptadienes. 3,031,486, 4–24–62, Cl. 260—454.
Richter, Sidney B., to Velsicol Chemical Corp. Method of destroying undesirable plants. 3,020,146, 2–6–62, Cl. 71—2.6.
Richter, Sidney B., to Velsicol Chemical Corp. New fungicidal compositions and matter. 3,050,440, 8–21–62, Cl. 167—30.
Richter, Sidney B., to Velsicol Chemical Corp. Organophosphorous pesticide. 3,062,704, 11–6–62, Cl. 167—22.
Richter, Sidney B., and A. Goldman, to Velsicol Chemical Corp. Chloroalkyl chloro-bicycloheptadienecarboxylates. 3,036,114, 5–22–62, Cl. 260—468.
Richter, Walter E. : *See*—
Kittle, Keith B., and Richter. 3,033,383.
Richter, Walter E., to Manning, Maxwell & Moore, Inc. Track clamp for hoists. 3,017,958, 1–23–62, Cl. 188—43.
Richter, Walther, to Cutler-Hammer, Inc. Voltage amplitude discriminating system having pulse width stretching means. 3,028,553, 4–3–62, Cl. 328—115.
Richter, Walther, and M. R. Swinehart, to Cutler-Hammer, Inc. Measuring systems. 3,059,176, 10–16–62, Cl. 324—28.
Richter, Willy, to Hauni-Werke Korber & Co. K.G. Device for producing a continuous tobacco rod. 3,045,681, 7–24–62, Cl. 131—109.
Richterkessing, Frank H., to W. M. Cissell Mfg. Co. Form for shaping garments in the region of neck and shoulders. 3,033,429, 5–8–62, Cl. 223—68.
Richterkessing, Frank H., to W. M. Cissell Mfg. Co. Lint collector. 3,047,963, 8–7–62, Cl. 34—82.
Richterkessing, Frank H., to W. M. Cissell Mfg. Co. Garment finisher clamp. 3,051,358, 8–28–62, Cl. 223—67.
Richterkessing, Frank H., to W. M. Cissell Mfg. Co. Garment finisher shoulder adjusting means. 3,058,635, 10–16–62, Cl. 223—67.
Richterkessing, Frank H., A. A. Brian, and W. M. Ingold, to W. M. Cissell Mfg. Co. Clothes dryer having improved safety controls. 3,068,588, 12–18–62, Cl. 34—48.
Richtmyer, Lawson E. : *See*—
Olsen, David E., Richtmyer, Wilson, and Myers. 3,052,-827.
Rickard, Charlotte I. : *See*—
Harwood, Kenneth J., and Rickard. 3,038,474.
Rickard, Corwin : *See*—
Arkelyan, Adele M., and Rickard. 3,029,842.
Rickard, James A. : *See*—
Muench, Nils L., and Rickard. 3,064,468.
Rickard, James A., to Jersey Production Research Co. Helium 3 scintillation neutron detector. 3,047,720, 7–31–62, Cl. 250—71.5.
Rickards, Michael A., to Weber Aircraft Corp. Artificial damping system. 3,063,663, 11–13–62, Cl. 244—78.
Rickert, Harrington, to Raytheon Co. Half-wave voltage doubling phase detectors. 3,029,386, 4–10–62, Cl. 324—87.
Rickert, Herbert B., to The Dow Chemical Co. Magnesium salts of coal acid coatings. 3,061,466, 10–30–62, Cl. 117—124.
Rickets, William T. : *See*—
Cowan, David M., Rickets, and S. P. Cowan. 3,058,238.
Rickett, Reginald L. : *See*—
Hudak, Stephen B., Leslie, and Rickett. 3,062,693.
Rickett, Robert J. : *See*—
Mayer, Ludwig J., Rickett, and Stenemann. 3,063,866.
Ricketts, James M. : *See*—
Bubniak, William C., Haushalter, Ricketts, Turunen, and Vickers. 3,057,604.
Conklin, Emmett D., Flanigan, Ricketts, and Turunen. 3,027,717.
Ricketts, Pete E., to United States of America, Air Force. Air traffic control system. 3,055,001, 9–18–62, Cl. 343—6.5.
Ricketts, Ronald H. : *See*—
Hadfield, Harry R., Ricketts, Simons, and Stephen. 3,042,477.
Ricketts, Russell D., to Litton Industries of California. Transducer assembly. 3,055,987, 9–25–62, Cl. 174—100.2.
Rickey, Irvin J. Drafting instrument. 3,020,642, 2–13–62, Cl. 33—93.
Rickey, Robert G. : *See*—
Fahey, Michael D., Tabke, and Rickey. 3,037,902.
Rickli, Charles J. Card-holder. 3,023,522, 3–6–62, Cl. 40—1.5.
Rickman, William C. : *See*—
Artigalas, Frank, and Rickman. 3,057,269.
Ricks, Bernard R., to Thompson Ramo Wooldridge Inc. Method of making ball studs. 3,036,366, 5–29–62, Cl. 29—149.5.
Ricks, James B., to The Hallicrafters Co. Telegraphic keyer. 3,041,397, 6–26–62, Cl. 178—82.
Riddell, Elizabeth W. : *See*—
Riddell, Robert W. 3,022,955.
Riddell, James L., and M. S. Nury, to Vie-Del Grape Products Co. Concentrated de-alcoholized wine product. 3,052,546, 9–4–62, Cl. 99—40.
Riddell, John A. : *See*—
Sundholm, Norman K., Hubbard, and Riddell. 3,029,138.
Riddell, John T., Inc. : *See*—
Morgan, Gerard E., and Rappleyea. 3,054,197.
Riddell, Robert H. Means and method for treating diseases of the teeth and gums. 3,060,935, 10–30–62, Cl. 128—260.
Riddell, Robert W., deceased : A. G. Gilkes, administrator of said R. W. Riddell, to E. W. Riddell. Applicator. 3,022,-955, 2–27–62, Cl. 239—456.
Riddell, William, and B. A. Holden, to Burgess Products Co. Ltd. Snap-action mechanism. 3,065,644, 11–27–62, Cl. 74—100.
Riddick, Thomas M. Apparatus for circulating large bodies of liquid. 3,033,372, 5–8–62, Cl. 210—220.
Riddiford, Reginald L., and F. Salisbury, to The General Electric Co., Ltd. Devices for sensing punched cards, tapes or other members. 3,017,082, 1–16–62, Cl. 235—61.11.
Riddle, Frank W., to Aileen Mills Co. Severing machine for forming tufted fabrics. 3,035,326, 5–22–62, Cl. 26—11.
Riddle, Frank W., to Aileen Mills Co. Severing machine for forming tufted fabrics. 3,059,307, 10–23–62, Cl. 26—12.
Riddle, Joseph E., to General Precision, Inc. Mounting for circuit boards. 3,016,148, 1–9–62, Cl. 211—41.
Riddle, William J., to The B. F. Goodrich Co. Platform tread applier. 3,062,270, 11–6–62, Cl. 156—405.
Riddle, William J., to The B. F. Goodrich Co. Band applying method. 3,070,478, 12–25–62, Cl. 156—126.
Riddle, William J., and C. Mullender, to The B. F. Goodrich Co. Belt type ply applicator. 3,057,397, 10–9–62, Cl. 156—405.
Ridean, Louis C. Bun boring machine. 3,059,680, 10–23–62, Cl. 146—52.

Riden, Joseph R., Jr.: *See*—
Flavin, James P., and Riden. 3,044,926.
Riden, Kenneth R. Combination book mark and loose leaf binder. 3,020,876, 2–13–62, Cl. 116—119.
Ridenour, Charles A., F. D. Irwin, and E. R. Little. Power-driven lawn mower with pivotal frame construction. 3,057,140, 10–9–62, Cl. 56—25.4.
Ridenour, Wayne F.: *See*—
Doane, James E., and Ridenour. 3,039,517.
Ridenour, William P., to Gulf Research & Development Co. Paraffin wax composition containing polyisobutylene and polyethylene. 3,046,238, 7–24–62, Cl. 260—28.5.
Rideout, Richard G. Baseball game. 3,050,308, 8–21–62, Cl. 273—122.
Rideout, Vincent C., to Allis-Chalmers Mfg. Co. Microwave gauge. 3,060,421, 10–23–62, Cl. 343—5.
Rideout, Walter H.: *See*—
Korach, Malcolm, and Rideout. 3,019,234.
Rider, Albert J.: *See*—
Randall, Walter A., and Rider. 3,031,776.
Rider, Albert J., to Link Division of General Precision, Inc. Trainer control column apparatus. 3,024,539, 3–13–62, Cl. 35—12.
Rider, Granville S. Exercising table for providing horizontal movement in a reversible orbital path or in either of two reciprocable paths which are perpendicular to each other. 3,043,293, 7–10–62, Cl. 128—33.
Rider, Paul Z., to Sperry Rand Corp. Automatically controlled tape perforator. 3,038,023, 6–5–62, Cl. 178—2.
Ridge, Guy H.: *See*—
Buckingham, William D., Lane, Ridge, and Turner. 3,056,034.
Ridge, Leonard G., to The J. R. Clark Co. Roller mounting. 3,069,719, 12–25–62, Cl. 16—30.
Ridge Tool Co., The: *See*—
Buyer, Walter. 3,015,246.
Janik, Anton J. 3,050,103.
Weibel, Herman. 3,031,237.
Weibel, Herman. 3,049,737.
Wright, Clyde E. 3,022,575.
Ridgeway, Denis V., to Pye Ltd. Color television apparatus. 3,015,688, 1–2–62, Cl. 178—5.4.
Ridgeway, Denis V., to Pye Ltd. Color television apparatus. 3,051,861, 8–28–62, Cl. 313—65.
Ridgeway, Denis V., to Pye Ltd. Means for effecting registration in colour television projection systems. 3,055,973, 9–25–62, Cl. 178—5.4.
Ridgeway, Frank, to The Distillers Co. Ltd. Purification process for steptomycin. 3,053,828, 9–11–62, Cl. 260—210.
Ridgion, James M.: *See*—
Kiemantaski, Sidney, Johnson, and Ridgion. 3,028,231.
Ridgway, John A. Jr., and B. O'Connor, to Standard Oil Co. Method for preparing vapor-phase isomerization catalyst. 3,020,241, 2–6–62, Cl. 252—439.
Ridgway, John A., Jr., and A. Zlatkis, to Standard Oil Co. Gas chromatography by destructive demethylation. 3,030,-191, 4–17–62, Cl. 23—232.
Ridgway, Robert J., to American Viscose Corp. Carton. 3,027,998, 4–3–62, Cl. 206—45.34.
Ridgway, Stuart L., to Thompson Ramo Wooldridge Inc. Exhaust control apparatus. 3,056,662, 10–2–62, Cl. 23—288.
Ridgway, Stuart L., to Thompson Ramo Wooldridge Inc. Exhaust manifold afterburner system. 3,060,678, 10–30–62, Cl. 60—30.
Ridinger, Philip G.: *See*—
Jones, William C., and Ridinger. 3,021,436.
Ridler, Desmond S.: *See*—
Wright, Esmond P. G., Ridler, and Grimmond. 3,048,-827.
Wright, Esmond P. G., Ridler, and Odell. 3,069,660.
Ridler, Desmond S., and A. D. Odell, to International Standard Electric Corp. Intelligence storage equipment. 3,020,-526, 2–6–62, Cl. 340—174.1.
Ridley, Harry H., to Sahlin Export and Trading Co. Work-handling means for power-presses and like machines. 3,040,685, 6–26–62, Cl. 113—50.
Ridley, John W.: *See*—
Linke, Karl R., Peterson, and Ridley. 3,067,742.
Ridnour, Robert H. to General Dynamics Corp. Reactionless rocket launcher. 3,030,865, 4–24–62, Cl. 89—1.7.
Riebe, John M., and V. E. Lockwood, to United States of America, National Aeronautics and Space Administration. Landing arrangement for aerial vehicles. 3,028,122, 4–3–62, Cl. 244—46.
Riebel, Fred, & Co.: *See*—
Riebel, Fred J. 3,018,526.
Riebel, Fred J., to Fred Riebel & Co. Leg support and corner bracket. 3,018,526, 1–30–62, Cl. 20—92.
Rieche, Alfred, E. Schmitz, and C. Bischoff, to Deutsche Akademie der Wissenschaften zu Berlin. Organic peroxides and process for preparing the same. 3,069,474, 12–18–62, Cl. 260—610.
Riechers, William H. Locking safety device for firearms. 3,018,576, 1–30–62, Cl. 42—1.
Riecken, George C. Orthopedic sandal. 3,066,678, 12–4–62, Cl. 128—607.
Riedel-de Haen Aktiengesellschaft: *See*—
Heymons, Albrecht, and Schnabel. 3,047,460.
Riedell Shoes, Inc.: *See*—
McCord, Jones. 3,027,661.
Riedi, Arnold T., to American Machine & Foundry Co. Applicator for bowling alley coating materials. 3,047,899, 8–7–62, Cl. 15—210.
Riedler, Robert W. Tie holder. 3,042,983, 7–10–62, Cl. 24—49.
Riegel Paper Corp.: *See*—
Cole, James E. 3,046,823.
Lattay, James B. 3,043,390.
Magill, Donald G., Jr. 3,052,295.
Magill, Donald G., Jr., and Eaton. 3,057,772.
Schenck, Willard A. 3,057,771.
Stone, Orison W. 3,067,865.
Vann, Clifton B. 3,018,120.
Riegel Textile Corp.: *See*—
Clifford, Alfred T., and Owens. 3,030,227.
Gore, Graves T. 3,064,621.
Kern, Dale W. 3,045,318.
Shirley, Julian W., and Gore. 3,052,211.
Riegelman, Harry M., to Security Aluminum Corp. Sliding closure lock. 3,055,064, 9–25–62, Cl. 20—52.
Riegger, Hubert, to Kienzle Apparate G.m.b.H., Firma. Apparatus for recording fuel consumption in internal combustion engines. 3,030,804, 4–24–62, Cl. 73—114.
Riegner, Earl I., to The Budd Co. Strain indicator. 3,034,-942, 5–15–62, Cl. 73—88.
Riehl, Theodore A., to The Goodyear Tire & Rubber Co. Pneumatic tires. 3,062,696, 11–6–62, Cl. 156—128.
Riehl, Wilhelm: *See*—
Adloff, Jakob A., Haertel, and Riehl. 3,053,366.
Riek, Monroe C. Boat. 3,031,692, 5–1–62, Cl. 9—1.
Rieke Metal Products Corp.: *See*—
Smith, Rulo W. 3,040,938.
Rieker & Co.: *See*—
Binder, Hermann, and Friedrich. 3,026,637.
Fridrich, Egon. 3,026,636.
Rielag, John H., to Marine Propeller Co. Cushioned marine propeller mounting. 3,047,074, 7–31–62, Cl. 170—160.54.
Rielander, Werner, to Olympia Werke AG. Shifting device for typewriters. 3,032,167, 5–1–62, Cl. 197—73.
Riemenschneider, Claud C., to Conco Engineering Works Inc. Suspended hoist. 3,061,111, 10–30–62, Cl. 212—21.
Riemenschneider, Wilhelm, L. Hornig, E. Weber, and K. Dialer, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for oxidizing olefins to aldehydes, ketones and acids. 3,057,915, 10–9–62, Cl. 260—533.
Riemschneider, Randolph, to Ethyl Corp. Dicyclopentadienyl metal compounds. 3,064,020, 11–13–62, Cl. 260—429.
Riendeau, Thomas W., 1/10 to Gadget-Of-The-Month Club, Inc. Controllably area-enlargeable and area-reducible table apparatus. 3,033,629, 5–8–62, Cl. 311—47.
Rienecker, Fred. Ceiling plastering apparatus. 3,061,201, 10–30–62, Cl. 239—124.
Riepe, Helmuth, to L. & C. Hardtmuth, Inc. Adjustable writing implement. 3,055,341, 9–25–62, Cl. 120—44.
Riepe, Helmuth, and H. F. Kaiser, to L. & C. Hardtmuth, Inc. Writing implement with a replaceable fluid-holding cartridge. 3,020,884, 2–13–62, Cl. 120—44.
Ries, Elmer F., to The Ries Mfg. Co. Therapeutic device. 3,063,445, 11–13–62, Cl. 128—75.
Ries, Francis X.: *See*—
Selby, Myron C., Behrent, and Ries. 3,041,533.
Ries G.m.b.H., Bekleidungsverschlussfabrik: *See*—
Claus, Harry. 3,057,030.
Ries Mfg. Co., The: *See*—
Ries, Elmer F. 3,063,445.
Riester, Robert A., to Carrier Corp. Compensating seals. 3,035,841, 5–22–62, Cl. 277—3.
Riester, William C.: *See*—
Deibel, Raymond A., Horton, and Riester. 3,064,752.
Oishei, John R., and Riester. 3,025,551.
Oshei, Reed J., and Riester. 3,039,555.
Riester, William C., to Trico Products Corp. Automatic vehicle door locking system. 3,042,135, 7–3–62, Cl. 180—82.
Riester, William C., to Trico Products Corp. Door locking system. 3,043,392, 7–10–62, Cl. 180—82.
Riester, William C., to Trico Products Corp. Vehicle door locking system. 3,070,184, 12–25–62, Cl. 180—82.
Riesz, Richard P.: *See*—
Kammerer, Fred W., Riesz, and Wallace. 3,015,738.
Rieter, Joh. Jacob, & Cie. Actiengesellschaft: *See*—
Kaufmann, Siegfried. 3,035,401.
Lamparter, Hansruedi. 3,028,501.
Naegeli, Werner. 3,038,316.
Naegeli, Werner. 3,059,284.
Naegeli, Werner, and Sinner. 3,035,313.
Rutz, Hans, and Huber. 3,018,603.
Schiltknecht, Adolf. 3,055,060.
Stähli, Gustav, and Hänseler. 3,036,422.
Wildbolz, Rudolf, Binder, and Staheli. 3,029,477.
Rieter, Joh. Jacob, & Co.: *See*—
Naegeli, Werner. 3,026,345.
Naegeli, Werner. 3,061,893.
Rieter, Joh. Jacob, & Co. Ltd.: *See*—
Naegeli, Werner. 3,041,675.
Naegeli, Werner. 3,066,360.
Schiltknecht, Adolf. 3,020,698.
Schiltknecht, Adolf. 3,028,636.
Wildbolz, Rudolf. 3,066,878.
Rietz, Carl A., to Rietz Mfg. Co. Method of processing foodstuffs. 3,036,921, 5–29–62, Cl. 99—105.

Rietz, Donald F. Meat dispenser for pizza production. 3,057,523, 10–9–62, Cl. 222—387.
Rietz Mfg. Co. : *See*—
Rietz, Carl A. 3,036,921.
Rifkin, Harvey N. : *See*—
Lieberman, Julius, and Rifkin. 3,056,987.
Rifkin, Michael. Window latching device. 3,034,328, 5–15–62, Cl. 70—90.
Riga, Jean J. L. E. : *See*—
Braconier, Frederic F. A., and Riga. 3,019,271.
Braconier, Frederic F. A., and Riga. 3,026,969.
Braconier, Frederic F. A., and Riga. 3,055,957.
Braconier, Frederic F. A., and Riga. 3,057,707.
Braconier, Frederic F. A., and Riga. 3,061,415.
Braconier, Frederic F. A., and Riga. 3,069,248.
Rigaku Denki Co. Ltd. : *See*—
Shimula, Yoshihiro, and Uchida. 3,022,423.
Shimula, Yoshihiro, and Uchida. 3,051,835.
Rigby, Harvey G. Door operating mechanism. 3,038,536, 6–12–62, Cl. 160—193.
Rigby, Miles G. : *See*—
Stiebel, Ariel L., and Rigby. 3,047,116.
Rigg, Arthur M. : *See*—
Knapp, Richard P., and Rigg. 3,027,951.
Rigg, Karl F., D. E. Morgan, and J. B. Christie, to The National Cash Register Co. Document processing and sorting apparatus. 3,067,874, 12–11–62, Cl. 209—111.5.
Riggert, Karlheinz, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Brüning. Process of preparing shrinkproof filaments from low-pressure polyethylene. 3,016,577, 1–16–62, Cl. 18—48.
Riggin, Fred C. : *See*—
Di Ianni, Elmo J., and Riggin. 3,064,130.
Riggs, Burd J., to Olin Mathieson Chemical Corp. Ammunition. 3,048,104, 8–7–62, Cl. 102—39.
Riggs, John H. : *See*—
Osborne, Fred H., Tuttle, and Riggs. 3,050,309.
Riggs, Harold C., to The Electric Storage Battery Co. Battery filling and venting device. 3,062,229, 11–6–62, Cl. 137—260.
Riggs, Mart B., to The Goodyear Tire & Rubber Co. Molding inflatable articles. 3,025,569, 3–20–62, Cl. 18—38.
Riggs, Olen L., Jr., to Continental Oil Co. Oil well inhibitor. 3,017,354, 1–16–62, Cl. 252—8.55.
Riggs, Olen L., Jr., to Continental Oil Co. Corrosion inhibitors. 3,061,553, 10–30–62, Cl. 252—392.
Riggs, Robert F. : *See*—
Turner, William C., and Riggs. 3,060,381.
Riggs, William F. Starting gate horse control. 3,064,623, 11–20–62, Cl. 119—15.5.
Righter, Walter H. : *See*—
Singdale, Fred N., Wedemeyer, and Righter. 3,036,283.
Rightmyer, Harold A. Progressive thrust propeller. 3,070,-061, 12–25–62, Cl. 115—34.
Rigler, Neil E. : *See*—
Feldman, Louis I., Pruess, and Rigler. 3,039,937.
Feldman, Louis I., Rigler, Holmlund, and Nielsen. 3,063,991.
Feldman, Louis I., Rigler, Shay, and Nielsen. 3,037,912.
Feldman, Louis I., Rigler, Shay, and Nielsen. 3,060,101.
Feldman, Louis I., Shay, and Rigler. 3,037,913.
Origoni, Victor E., Rigler, and Goodman. 3,047,468.
Pruess, Louis M., Pidacks, and Rigler. 3,047,470.
Rigney, Richard J., to Task Corp. Refrigerant compressor. 3,064,449, 11–20–62, Cl. 62—470.
Rigrod, William W., to Bell Telephone Laboratories, Inc. Rotating beam space-charge wave parametric amplifier. 3,051,910, 8–28–62, Cl. 330—43.
Rigsby, Rowena N. Expansible shoe. 3,027,658, 4–3–62, Cl. 36—2.5.
Rigsby, Rowena N. Expansible shoe. 3,057,085, 10–9–62, Cl. 36—2.5.
Rigsby, Rowena N. Expansible shoe. 3,057,086, 10–9–62, Cl. 36—2.5.
Rigsby, Rowena N. Expansible shoe. 3,058,241, 10–16–62, Cl. 36—2.5.
Rigterink, Raymond H., to The Dow Chemical Co. Polyalkyleneglycol 3,4-dihydro-2H-1,3-benzoxazin-3-ylalkyl monoethers. 3,023,207, 2–27–62, Cl. 260—244.
Rigterink, Raymond H., to The Dow Chemical Co. O-coumaryl O-alkyl phosphoramidates and phosphoramidothioates. 3,064,009, 11–13–62, Cl. 260—343.2.
Rigvy, Hugh J. M., to Executors of James Mills, Ltd. Supporting of railway and like rails. 3,065,914, 11–27–62, Cl. 238—349.
Riha, Miloslav : *See*—
Svaty, Vladimir. Riha, and Taticek. 3,047,027.
Rijnsdorp, Johannes E., to Shell Oil Co. Pneumatic addition of flow signals. 3,062,271, 11–6–62, Cl. 158—11.
Rike, James L. : *See*—
Pistole, Harry, Rike, Terrel, and Lefner. 3,055,339.
Rike, James L., and W. C. Lindsey, to Jersey Production Research Co. Preventing internal wear of production pipe strings by abrasive-laden fluids. 3,070,171, 12–25–62, Cl. 166—243.
Rike, Richard C., to General Motors Corp. Brake booster unit. 3,035,551, 5–22–62, Cl. 121—41.
Rike, Richard C., to General Motors Corp. Brake booster. 3,049,100, 8–14–62, Cl. 121—41.
Riken Kogaku Kogyo Kabushiki-Kaisha : *See*—
Fujimoto, Sakae. 3,046,357.
Riker, Charles O. : *See*—
Rice, Richard L. and Riker. 3,032,074.
Riker Laboratories, Inc. : *See*—
Petracek, Francis J., and Draper. 3,017,407.
Petracek, Francis J., and Draper. 3,070,595.
Riker, Rudolf : *See*—
Waimer, Eberhard, and Riker. 3,066,919.
Rikert, John A. : *See*—
Bogyo, Stephen W., Rikert, and Winter. 3,044,880.
Rikon Kogaku Kogyo Kabushiki Kaisha : *See*—
Fujimoto, Sakae. 3,060,940.
Riley, Clay W., to Industrial Filter & Pump Mfg. Co. Filtration apparatus. 3,017,996, 1–23–62, Cl. 210—346.
Riley, David W., to Union Carbide Corp. Process for producing organosilicon compounds using sulfamic acid catalysts. 3,036,035, 5–22–62, Cl. 260—46.5.
Riley, Forest L., Jr. Progressive can crusher. 3,027,828, 4–3–62, Cl. 100—264.
Riley, George R., to Ametek Inc. Embossed pressure responsive tube. 3,060,745, 10–30–62, Cl. 73—418.
Riley, Horace E. : *See*—
Ross, Joseph H., Jr., Molnar, and Riley. 3,032,540.
Riley, James H., A. Silver, and E. C. Powell, to The Garrett Corp. Regulating valve. 3,032,056, 5–1–62, Cl. 137—220.
Riley, James S. : *See*—
Wilson, Reginald John, Jones, and Riley. 3,043,166.
Riley, Jesse L., to Celanese Corp. of America. Wet spun cellulose triacetate. 3,057,039, 10–9–62, Cl. 28—82.
Riley, Jesse L., and C. E. Kip, to Celanese Corp. of America. Production of filamentary material. 3,032,384, 5–1–62, Cl. 18—54.
Riley, Joseph F., to P. R. Mallory & Co. Inc. Apparatus for making condensers. 3,038,242, 6–12–62, Cl. 29—25.42.
Riley, Joseph J., to The Taylor-Winfield Corp. Low loss anti-friction current transfer means for rotating devices. 3,021,497, 2–13–62, Cl. 339—5.
Riley, Reginald H. J. : *See*—
Gibbins, Leslie B., and Riley. 3,058,290.
Riley, Robert L., to United States of America, Navy. Retriggerable memory. 3,049,624, 8–14–62, Cl. 307—88.5.
Riley, Robert M., to Bell Telephone Laboratories, Inc. Electrical impulse. 3,020,334, 2–6–62, Cl. 174—107.
Riley, Russell, to United States Steel Corp. Tilting device for heavy articles. 3,054,514, 9–18–62, Cl. 214—1.
Riley Stoker Corp. : *See*—
Alix, Arthur J. 3,043,280.
Blodgett, Norman S. 3,060,907.
Davey, Gerald F. 3,043,055.
Griffith, Louis E. 3,066,657.
Kuhner, Max H. 3,057,333.
Miller, Earle C. 3,063,431.
Nyberg, George J. 3,043,250.
Opladen, Heinz B. 3,057,164.
Rawdon, Albert H. 3,060,906.
Rilk, Werner : *See*—
Haupt, Eugen, Leinhos, Rilk, Schubart, and Wustemann. 3,033,079.
Rim, Moshe : *See*—
Katchalsky, Aharon, Bursztyn, Rim, and Vofsi. 3,019,-557.
Rimar, Eugene. Sea-anchors or water-drags. 3,039,419, 6–19–62, Cl. 114—209.
Rimbach, Herbert W., to Westinghouse Electric Corp. Lamp, phosphor and method. 3,025,423, 3–13–62, Cl. 313—108.
Rimbach, Henry W., to Westinghouse Electric Corp. Gaseous discharge device and method. 3,048,737, 8–7–62, Cl. 313—174.
Rimer, Kenneth W. : *See*—
Shrubsall, Arthur E., and Rimer. 3,068,128.
Rimer, Lewis K. : *See*—
Mobler, William F. 3,033,228.
Rimmel, Ira A. : *See*—
Rimmel, Ernest T., and Rimmel. 3,030,677.
Rimmer, Robert V., to Westinghouse Electric Corp. Enclosed circuit interrupters. 3,054,867, 9–18–62, Cl. 200—50.
Rimmer, Robert V., and W. F. Born, to Westinghouse Electric Corp. Cover latching device. 3,035,859, 5–22–62, Cl. 292—128.
Rinaldi, Nicholas, to Scovill Mfg. Co. Pass case binders. 3,018,532, 1–30–62, Cl. 24—153.
Rinchak, Joseph. Painting accessory. 3,028,041, 4–3–62, Cl. 220—90.
Rinderle, Heinz : *See*—
Minner, Willy, and Rinderle. 3,042,870.
Rindsfusser, Hohannes : *See*—
Wendel, Franz, and Rindsfusser. 3,039,680.
Rindtorff, Embrecht, K. Schmitt, G. Keller, and O. Ambros, to Bergwerksgesellschaft Hibernia Aktiengesellschaft. Process for the continuous production of polyolefines of uniform molecular weight. 3,035,037, 5–15–62, Cl. 260—94.9.
Rineer, Arthur E. Fluid power converter. 3,016,019, 1–9–62, Cl. 103—121.
Rineer, Arthur E. Fluid power converter. 3,016,020, 1–9–62, Cl. 103—118.
Rineer, Arthur E. Fluid power converter. 3,016,021, 1–9–62, Cl. 103—123.
Rinehuls, Cecil C., and P. O. C. Jackson. Ground clamp. 3,046,511, 7–24–62, Cl. 339—13.
Rinesch, Rudolph F., to Vereinigte Oesterreichische Eisen-und Sthalwerke Aktiengesellschaft. Process for blowing pig-iron. 3,028,232, 4–3–62, Cl. 75—51.

Ring, Donald D. Tension adjuster for clipper heads. 3,052,-025, 9–4–62, Cl. 30—221.
Ring, Douglas H.: *See*—
De Loach, Bernard C., Jr., and Ring. 3,016,499.
Marcatili, Enrique A. J., and Ring. 3,050,699.
Ring, Douglas H., to Bell Telephone Laboratories, Inc. High speed microwave switching networks. 3,032,723, 5–1–62, Cl. 333—7.
Ring, Ernest A. Safety goggle and lens-replacing locking stay. 3,031,674, 5–1–62, Cl. 2—14.
Ring, Gene C.: *See*—
Castelli, Charles, and Ring. 3,036,572.
Ring, Oswald R. Device for splitting bulbs and the like. 3,051,360, 8–28–62, Cl. 225—96.
Ring, Wayne A., and E. J. Meyers, to Barber-Colman Co. Electrical device having deadband response characteristic. 3,045,917, 7–24–62, Cl. 235—184.
Ringe, Carl H.: *See*—
Hegeman, Andrew R., and Ringe. 3,018,727.
Ringe, Carl H., and C. A. Harless, to R. Hoe & Co., Inc. Underside lock up device for printing plates. 3,019,729, 2–6–62, Cl. 101—378.
Ringlanf, George R., to Waters Mfg., Inc. Encapsulated electrical component. 3,035,239, 5–15–62, Cl. 336—67.
Ringlen, Arthur, to J. M. Plastics Mfg. Corp. Container and closure therefor. 3,055,540, 9–25–62, Cl. 220—60.
Zderic, John A., Ringold, and Djerassi. 3,052,676.
Ringler, Maurycy. Device for cutting bore hole pipes. 3,024,-842, 3–13–62, Cl. 166—55.6.
Ringler, Reuben B. Power operated jalousie window structure. 3,068,971, 12–18–62, Cl. 189—62.
Ringler, William A., to Diamond National Corp. Handle for large carton. 3,030,002, 4–17–62, Cl. 229—52.
Ringo, Dan: *See*—
Dillman, Edward E., and Ringo. 3,040,592.
Ringo, George R.: *See*—
Fitzgerald, James W., Winder, and Ringo. 3,040,562.
Ringold, Howard J.: *See*—
Batres, Enrique, and Ringold. 3,067,216.
Bowers, Albert, and Ringold. 3,019,240.
Bowers, Albert, and Ringold. 3,037,976.
Bowers, Albert, and Ringold. 3,045,285.
Bowers, Albert, and Ringold. 3,050,518.
Bowers, Albert, and Ringold. 3,050,534.
Bowers, Albert, and Ringold. 3,054,809.
Djerassi, Carl, and Ringold. 3,027,368.
Mills, John S., Ringold, and Djerassi. 3,062,845.
Zderic, John A., and Ringold. 3,069,413.
Ringold, Howard J., to Syntex Corp. Cyclopentanophenanthrene compounds and process. 3,059,019, 10–16–62, Cl. 260—468.
Ringold, Howard J., J. A. Zderic, E. Batres, and G. Rosenkranz, to Syntex S.A. 11-methyl-androstane derivatives. 3,017,419, 1–16–62, Cl. 260—397.45.
Ringold, Howard J., and G. Rosenkranz, to Syntex S.A. 20-ethylene dioxy-pregnane-3-one derivatives. 3,018,285, 1–23–62, Cl. 260—239.55.
Ringold, Howard J., G. Mancera, G. Rosenkranz, and J. Edwards, to Syntex S.A. 6α-bromo pregnane compounds. 3,019,239, 1–30–62, Cl. 260—397.3.
Ringold, Howard J., J. A. Zderic, C. Djerassi, and A. Bowers, to Syntex S.A. [3,2-c]-pyrimidine derivatives of androstane compounds. 3,026,317, 3–20–62, Cl. 260—239.5.
Ringold, Howard J., A. Bowers, and G. Rosenkranz, to Syntex S.A. 6-fluoro-19-nor-testosterone derivatives. 3,028,401, 4–3–62, Cl. 260—397.4.
Ringold, Howard J., F. Sondheimer, and G. Rosenkranz, to Syntex S.A. 1-methyl steroids of the androstane series. 3,032,552, 5–1–62, Cl. 260—239.55.
Ringold, Howard J., and A. Bowers, to Syntex S.A. Process for producing 19-nor-progesterone and 6,19-oxido and lactone intermediates therein. 3,033,862, 5–8–62, Cl. 260—239.55.
Ringold, Howard J., A. Bowers, and G. Rosenkranz, to Syntex S.A. 21-nitro pregnane compounds and process for the production thereof. 3,035,067, 5–15–62, Cl. 260—397.3.
Ringold, Howard J., and A. Bowers, to Syntex S.A. C-6,19-steroidal lactones. 3,036,068, 5–22–62, Cl. 260—239.57.
Ringold, Howard J., O. Mancera, G. Rosenkranz, and J. Edwards, to Syntex S.A. 3-enol ethers of 6-bromo progesterones. 3,035,096, 5–22–62, Cl. 260—397.4.
Ringold, Howard J., and A. Bowers, to Syntex S.A. 2,2-dialkyl androgenic type hormones. 3,041,359, 6–26–62, Cl. 260—397.3.
Ringold, Howard J., O. Mancera, and G. Rosenkranz, to Syntex Corp. 2α-methyl - 6 - chloro - pregnane - derivatives. 3,056,815, 10–2–62, Cl. 260—397.45.
Ringold, Howard J., F. Sondheimer, G. Rosenkranz, G. Strok, and C. Djerassi, to Syntex Corp. 20-ketal derivatives of 1-methyl-3-alkoxy-17-acetyl-1,3,5(10)-estratriene. 3,065,226, 11–20–62, Cl. 260—239.55.
Ringold, Howard J., and C. Djerassi, to Syntex Corp. 6,16-dihalo-17-acyloxy-progesterones. 3,067,213, 12–4–62, Cl. 260—397.4.
Ringold, Howard J., and O. Mancera, to Syntex Corp. 6-chloro derivatives of Δ⁴-pregnen-17α,21-diol-3,20-dione and Δ¹·⁴-pregnadiene-17α,21-diol-3,20-dione. 3,067,219, 12–4–62, Cl. 260—397.47.
Ringpfeil, Manfred: *See*—
Behrens, Ulrich, and Ringpfeil. 3,044,940.
Ringquist, Clarence L., to The Trane Co. Summer-winter air conditioning system. 3,069,867, 12–25–62, Cl. 62—159.
Rings, Inc.: *See*—
Esch, Carleton B. 3,054,266.
Ringwald, Eugene L., to Monsanto Chemical Co. Process for preparing polyesters from aromatic dicarboxylic acids and polymethylene glycols in the presence of certain tertiary amines. 3,060,152, 10–23–62, Cl. 260—75.
Ringwald, Owen E., to E. I. du Pont de Nemours and Co. Production of silane by the use of a zinc catalyst. 3,050,-366, 8–21–62, Cl. 23—204.
Ringwalt, David L., to United States of America, Navy. Delay line function generator. 3,028,089, 4–3–62, Cl. 235—164.
Rinia, Herre: *See*—
Kohler, Jacob W. L., Rinia, and Piet. 3,045,982.
Riniker, Bernhard: *See*—
Schwyzer, Robert, and Riniker. 3,040,017.
Rink, Charles N.: *See*—
Sanders, Guy J., Rink, and Oppenheim. 3,033,307.
Rink, Donald R.: *See*—
Pruett, Roy L., and Rink. 3,035,072.
Pruett, Roy L., Rink, and Parts. 3,068,258.
Rink, Karlheinz, A. Weihe, deceased (by E. Weihe, wife and sole heir), to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Process for the production of chlorine and bromine substituted carbamates. 3,059,023, 10–16–62, Cl. 260—482.
Rinke, Heinrich: *See*—
Thoma, Wilhelm, Bayer, and Rinke. 3,023,100.
Thoma, Wilhelm, Bayer, and Rinke. 3,023,193.
Thoma, Wilhelm, and Rinke. 3,043,802.
Thoma, Wilhelm, and Rinke. 3,066,117.
Rinke, Heinrich, and O. Bayer, to Farbenfabriken Bayer Aktiengesellschaft, Composition comprising aromatic polyester resin dissolved in hydrofluoric acid, process for preparing same, and process for shaping articles therefrom. 3,027,225, 3–27–62, Cl. 18—54.
Rinke, Heinrich, and E. Windemuth, ½ to Bayer Aktiengesellschaft, Farbenfabriken, and ½ to Mobay Chemical Co. Nets of synthetic threads. 3,035,475, 5–22–62, Cl. 87—1.
Rinke, Heinrich, W. Lehmann, and H. Schnell, to Farbenfabriken Bayer Aktiengesellschaft. High molecular weight linear polycarbonates. 3,062,780, 11–6–62, Cl. 260—47.
Rinker, Carl O., to The Philip Carey Mfg. Co. Chord chime. 3,070,791, 12–25–62, Cl. 340—392.
Rinker, Edwin C., to Sel-Rex Precious Metals, Inc. Mirror bright gold alloy electroplating. 3,020,217, 2–6–62, Cl. 204—43.
Rinker, William R., and R. G. McGilvrey, to The B. F. Goodrich Co. Expansion joint. 3,055,279, 9–25–62, Cl. 94—18.
Rinkewich, Isaac, and H. Chow, to International Patent Research Corp. Lawn sprinkler. 3,017,123, 1–16–62, Cl. 239—540.
Rinovatore, James V., and K. L. Laws, to The Electric Storage Battery Co. Solid electrolyte battery. 3,057,945, 10–9–62, Cl. 136—83.
Rinse, Jacobus, to Agrashell, Inc. Cyclic alkoxy- and phenoxy-aluminum oxide trimers and process for making same. 3,054,814, 9–18–62, Cl. 260—448.
Rinse, Jacobus, and A. J. Dontje, to Agrashell, Inc. Polymeric aluminum oxide hydroxides. 3,056,725, 10–2–62, Cl. 167—55.
Rinshed-Mason Co.: *See*—
Boucher, John B. 3,023,177.
Boucher, John B., and Bussell. 3,027,341.
Rinsoz, Gilbert. Differential gear. 3,060,765, 10–30–62, Cl. 74—710.5.
Rintoul, Harry A.: *See*—
Clement, Warren F., and Rintoul. 3,023,625.
Rion, Pat F., to Phillips Petroleum Co. Preparation of polymers of conjugated dienes. 3,036,056, 5–22–62, Cl. 260—94.7.
Riopelle, Arthur J.: *See*—
Fletcher, John L., and Riopelle. 3,068,319.
Riordan, Hugh E., to General Precision, Inc. Hydraulic averaging accelerometer. 3,046,793, 7–31–62, Cl. 73—515.
Riordan, Hugh E., to United States of America, Navy. Mechanical filter. 3,049,189, 8–14–62, Cl. 181—.5.
Riordan, Hugh E., to General Precision, Inc. Simplified snap-action contact switch. 3,051,802, 8–28–62, Cl. 200—67.
Riordan, Hugh E., to General Precision Inc. Turbine speed control. 3,055,636, 9–25–62, Cl. 253—82.
Riordan, Hugh E., to General Precision Inc. Pneumatic diode. 3,068,880, 12–18–62, Cl. 137—82.
Riordan, John J.: *See*—
Petsch, Harold A., and Riordan. 3,054,127.
Riordan, Hugh E., to General Precision, Inc. Seal means for hydraulic actuator. 3,063,423, 11–13–62, Cl. 121—38.
Riordan, Michael D., and W. F. Franz, to Texaco Inc. Method of treating hydrocarbons. 3,039,954, 6–19–62, Cl. 208—65.
Riou, Marcel, and H. Richaud, to Pechiney Compagnie de Produits Chimiques et Electrometallurgiques. Method of protecting metal surfaces. 3,016,339, 1–9–62, Cl. 204—38.
Riou, Marcel, and H. Richaud, to Pechiney Compagnie de Produits Chimiques et Electrometallurgiques. Method of protecting metal surfaces. 3,026,255, 3–20–62, Cl. 204—33.
Rioux, John J.: *See*—
MacCracken, Calvin D., Rioux, Miles, and Hoffman. 3,034,414.
Ripepi, Tony. Approach alarm system. 3,022,499, 2–20–62, Cl. 340—258.

Ripich, Andrew J., to C. G. Ripich. Holder for fishing rods and the like. 3,047,262, 7–31–62, Cl. 248—42.

Ripich, Carol G.: *See*—
Ripich, Andrew J. 3,047,262.

Ripley, James H. Inflatable safety shirt. 3,019,459, 2–6–62, Cl. 9—342.

Ripley, Kenneth C., to John J. McMullen Associates, Inc. Flume type heeling tank stabilizer. 3,054,373, 9–18–62, Cl. 114—125.

Ripley, Robert L.: *See*—
Culbertson, James B., Lamprey, and Ripley. 3,062,638.

Ripon Corp.: *See*—
Wood, Wilburn L. 3,028,212.

Ripon Foods, Inc.: *See*—
Bumby, John E. 3,028,066.

Rippingille, Edward V., to General Motors Corp. Mechanical heart pump or the like. 3,045,601, 7–24–62, Cl. 103—44.

Rippon, Alan: *See*—
Bonath, Klaus, Endter, De Rycke, Lewis, and Rippon. 3,029,335.

Ripps, Clarence M. Mower. 3,061,996, 11–6–62, Cl. 56—25.

Rippy, Kenneth W., to Armco Steel Corp. Torque converters. 3,063,245, 11–13–62, Cl. 60—54.

Rips, Julius L. Shock gauge. 3,021,813, 2–20–62, Cl. 116—114.

Ri-Ri Werke A.G.: *See*—
Schwendt, Otto, and Meimberg. 3,047,922.

Risberg, James A.: *See*—
Kesler, Martin L., Risberg, and Dziomba. 3,056,642.

Risch, William E.: *See*—
Grumbles, Samuel C., Risch, and Gillen. 3,018,911.

Risdal, Norton W.: *See*—
Schmalz, Frederick D., and Risdal. 3,043,699.

Risdon Mfg. Co., The: *See*—
Beard, Walter C., Jr. 3,028,054.

Rise, William E., to General Motors Corp. Apparatus for manufacturing pre-aimed lamps. 3,016,657, 1–16–62, Cl. 51—134.

Rise, William E., to General Motors Corp. Tangled spring separator. 3,042,181, 7–3–62, Cl. 198—33.

Riseman, Jacob: *See*—
Sankuer, Raymond F., and Riseman. 3,055,770.

Rishcoff, Michael. Fire escape step frame system. 3,024,862, 13–13–62, Cl. 182—48.

Rising, Donald B.: *See*—
Shanley, Edward S., and Rising. 3,056,637.

Rising, Donald B., and E. S. Shanley, to Garlock Inc. Etched filler containing polytetrafluoroethylene bearing material. 3,056,709, 10–2–62, Cl. 156—7.

Riskind, Maurice A.: *See*—
Coleman, Edwin D., and Staunton. 3,023,664.

Risley, Roger E., to Dresser Industries, Inc. Service T. 3,045,511, 7–24–62, Cl. 77—38.

Risley, Roger E., to Dresser Industries, Inc. Pipe line repair with resilient bellows sleeve. 3,070,130, 12–25–62, Cl. 138—97.

Risley, Roger E., and J. P. Mann, to Dresser Industries, Inc. Service fitting. 3,045,512, 7–24–62, Cl. 77—38.

Risner, Robert C. Automobile carriers. 3,039,813, 6–19–62, Cl. 296—1.

Risner, Robert C. Automobile carriers. 3,068,037, 12–11–62, Cl. 296—1.

Risnes, Alvin D. Brake pedals. 3,027,778, 4–3–62, Cl. 74—512.

Risse, Ralph F.: *See*—
Arndt, Charles J., and Risse. 3,058,575.

Risse, Ralph F., to Goodman Mfg. Co. Rotatable cutter head. 3,041,055, 6–26–62, Cl. 262—26.

Risse, Ralph F., to Goodman Mfg. Co. Automatic two directional belt training troughing idler assembly for low clearance operations. 3,070,220, 12–25–62, Cl. 198—192.

Risse, Roger, to Societe Lyonnaise des Rechauds Catalytiques. Catalytic heating apparatus. 3,037,554, 6–5–62, Cl. 158—140.

Rissen G.m.b.H., Maschinenfabrik: *See*—
Majer, Helmut. 3,026,779.

Rissi, Erwin: *See*—
Jucker, Ernst, Ebnöther, Rissi, Vogel, and Steiner. 3,036,065.
Jucker, Ernst, Lindenmann, and Rissi. 3,041,342.
Jucker, Ernst, Rissi, and Süess. 3,015,658.
Jucker, Ernst, Rissi, and Süess. 3,032,554.

Rissman, Paul J.: *See*—
Croskey, Frank A., and Rissman. 3,037,703.

Rist, Michel: *See*—
Maurice, Jean, and Rist. 3,042,164.

Risto, William L., to The Thew Shovel Co. Crane. 3,051,325, 8–28–62, Cl. 212—38.

Ristow, John E., to St. John & Co. Carcass lowering and spreading device. 3,031,715, 5–1–62, Cl. 17—24.

Ritchey, Neil F.: *See*—
Knapp, Victor E., and Ritchey. 3,061,923.

Ritchey, William D. Flexible toilet paper holder. 3,051,404, 8–28–62, Cl. 242—55.2.

Ritchie, Alexander C.: *See*—
Graham, William, Ritchie, and Wetherill. 3,040,071.

Ritchie, Edwin E., to Dobrmann Sales Co. Proximity electronic water station. 3,033,248, 5–8–62, Cl. 141—351.

Ritchie, Malcolm L., to United States of America, Air Force. Drag indicator for aircraft cockpits. 3,017,609, 1–16–62, Cl. 340—27.

Ritchie, W. C., Division Stone Container Corp.: *See*—
McBain, John K. 3,047,199.

Ritscher, Arthur, and B. Schubert, to Hauni-Werke Korber & Co., K.G. Cutting machines for fibrous materials. 3,044,325, 7–17–62, Cl. 51—247.

Ritson, Daniel D.: *See*—
Savina, Anthony R., and Ritson. 3,061,568.
Trachtenburg, Harold, and Ritson. 3,057,811.

Ritson, Daniel D., to American Cyanamid Co. Two-sided paper. 3,015,578, 1–2–62, Cl. 117—68.

Ritson, Daniel D., and T. J. Suen, to American Cyanamid Co. Coating composition for paper comprising a mineral pigment and an acrylic acid-acrylamide-acrylonitrile copolymer as principal coating component. 3,050,486, 8–21–62, Cl. 260—29.6.

Rittenhouse, Godfrey J., to H. K. Porter Co. Inc. Jet engine refueling hose. 3,068,906, 12–18–62, Cl. 138—126.

Rittenhouse, Howard E., to Rockwell Mfg. Co. Liquid meter. 3,068,844, 12–18–62, Cl. 121—69.

Rittenhouse, Lester C.: *See*—
High, Alan V., Orner, and Rittenhouse. 3,062,481.

Ritter Co., Inc.: *See*—
Burzlaff, Karl H. 3,051,270.
Burzlaff, Karl H. 3,055,042.
Burzlaff, Karl H., and Comper. 3,041,120.
Comper, Adrian. 3,041,121.
Ellis, Charles A. 3,050,855.
Heck, Gustav. 3,055,366.
Lauterbach, Norman E. 3,025,401.
Lauterbach, Norman E. 3,065,332.
Nugent, John I. 3,051,175.
Teague, Walter D., Jr. 3,025,108.
Weickgenannt, Egon R. 3,041,123.
Weickgenannt, Egon R., and Comper. 3,041,122.
Weickgenannt, Egon R., and Martin. 3,041,119.

Ritter, Eugene L.: *See*—
Ernst, Hans, Haggerty, and Ritter. 3,037,329.

Ritter, Friedbert: *See*—
Ebert, Hans, Ritter, Harmsen, and Grapentin. 3,067,006.

Ritter, Herman, to The Singer Mfg. Co. Presser lifter mechanism for sewing machines. 3,036,536, 5–29–62, Cl. 112—237.

Ritter, James R.: *See*—
Mohler, Donald, and Ritter. 3,065,389.

Ritter, Josef: *See*—
Eisenburger, Kuno, Gott, and Ritter. 3,056,883.

Ritter, Kaspar, to Allgaier-Werke G.m.b.H., Firma. Vehicles, such as tractors and the like. 3,037,572, 6–5–62, Cl. 180—54.

Ritter, Kaspar, to Allgaier-Werke G.m.b.H. Hydraulic control apparatus. 3,046,744, 7–31–62, Cl. 60—53.

Ritter, Kaspar, to Allgaier-Werke G.m.b.H. Hydraulic power assembly. 3,060,893, 10–30–62, Cl. 121—40.

Ritter, Kaspar, and W. Hutter, to Allgaier-Werke G.m.b.H. Hydraulic installation for vehicles such as tractors and the like. 3,061,032, 10–30–62, Cl. 180—53.

Ritter, Lawrence: *See*—
Stearns, Carl L., and Ritter. 3,069,319.

Ritter, Ralph K.: *See*—
English, Lawrence P., and Ritter. 3,029,375.

Rittgers, Lafayette: *See*—
Glass, Marvin I., Rittgers, and Meyer. 3,050,307.

Ritthaler, Kurt: *See*—
Adelson, Harry J., Jr., and Ritthaler. 3,049,610.

Rittinger, Adam N.: *See*—
Caps, Arthur W., and Rittinger. 3,045,540.

Ritz, Hugo H. L., to C. A. Parsons, & Co. Ltd. Fuel elements for nuclear reactors. 3,030,292, 4–17–62, Cl. 204—193.2.

Ritze, Arno: *See*—
Thiele, Heinz, and Ritze. 3,026,769.

Ritzema, Donald E.: *See*—
De Long, Herbert K., and Ritzema. 3,039,909.

Ritzenhoff, Hermann. Sealing cap for bottles, jars, canisters and similar containers. 3,042,243, 7–3–62, Cl. 215—46.

Ritzenthaler, Bruce A.: *See*—
Cropper, Wendell P., and Ritzenthaler. 3,020,749.

Ritzenthaler, Bruce A., to Standard Oil Co. Electrical apparatus. 3,046,420, 7–24–62, Cl. 307—132.

Ritzenthaler, Bruce A., to Standard Oil Co. Electronic integrator. 3,048,336, 8–7–62, Cl. 235—183.

Ritzerfeld, Gerhard: *See*—
Ritzerfeld, Wilhelm and G. 3,016,821.
Ritzerfeld, Wilhelm and G. 3,016,822.
Ritzerfeld, Wilhelm and G. 3,016,824.
Ritzerfeld, Wilhelm and G. 3,016,825.
Ritzerfeld, Wilhelm and G. 3,049,076.

Ritzerfeld, Wilhelm and G. Moistening method and apparatus for duplicators. 3,016,821, 1–16–62, Cl. 101—132.5.

Ritzerfeld, Wilhelm and G. Moistening device for duplicating machines. 3,016,822, 1–16–62, Cl. 101—132.5.

Ritzerfeld, Wilhelm and G. Lithographic printing form and method of preparing the same. 3,016,824, 1–16–62, Cl. 101—149.2.

Ritzerfeld, Wilhelm and G. Copy sheet transporting apparatus for printing machines. 3,016,825, 1–16–62, Cl. 101—234.

Ritzerfeld, Wilhelm and G. Rotary lithographic multicolor printing machine. 3,049,076, 8–14–62, Cl. 101—137.

Ritzheimer, Earl. Hook for choker cable. 3,058,184, 10–16–62, Cl. 24—123.

Rivard Brothers Inc.: *See*—
Davis, Wilbur A. 3,020,790.
Davis, Wilbur A. 3,048,898.

Rivark Research and Development Corp.: *See*—
Rivoche, Eugene J. 3,052,558.
Riveer, Theodore C.: *See*—
James, William E., and Riveer. 3,023,452.
Rivera, Jose L. H. Loom picker. 3,020,932, 2–13–62, Cl. 139—159.
Rivera, Michael P.: *See*—
Denton, Richard A., Le Riche, and Rivera. 3,021,712.
Rivera, Michael P., to The New York Air Brake Co. Pressure gauge. 3,066,537, 12–4–62, Cl. 73—399.
Rivers, Richard D.: *See*—
Czerwonka, Lawrence J., and Rivers. 3,018,846.
Rivers, Richard D., to American Air Filter Co., Inc. Electrostatic precipitators. 3,017,953, 1–23–62, Cl. 183—7.
Rivers, William C. Van body roof and wall construction. 3,027,187, 3–27–62, Cl. 296—28.
Rivers, William C. Van body door construction. 3,070,400, 12–25–62, Cl. 296—28.
Riverside Paper Corp.: *See*—
Davis, Eugene E., and Lace. 3,058,871.
Riverside Plastics Corp.: *See*—
Greenberg, Walter H. 3,029,473.
McCoy, John H., and Greenberg. 3,038,551.
Rives, Halcolm D., S. Robertson, and S. E. Allen, to Swing-spout Measure Co. Radiator cap remover. 3,037,408, 6–5–62, Cl. 81—3.42.
Rivman, Julius: *See*—
Rivman, Samuel J. and J., and Jacobs. 3,067,553.
Rivman, Samuel J. and J., and W. A. Jacobs, to National Distillers and Chemical Corp. Packaging method and machine. 3,067,553, 12–11–62, Cl. 53—28.
Rivoche, Eugene J., to Rivark Research and Development Corp. Preparation of food products. 3,052,558, 9–4–62, Cl. 99—192.
Riuli, Arduino: *See*—
Dennis, David H., Riuli, and Schrank. 3,058,527.
Rius, Santiga. Soluble nitrochromic preparations. 3,063,-898, 11–13–62, Cl. 167—65.
Rix, Albert, J. Marquardt, and H. Hess, to Olympia Werke AG., Firma. Margin setting and releasing device for typewriters. 3,031,056, 4–24–62, Cl. 197—63.
Rix, Horace R.: *See*—
Cunningham, Richard, Jr., and Rix. 3,060,905.
Rixan, Inc.: *See*—
Sandsto, Bjorn P. 3,058,213.
Rixon Electronics, Inc.: *See*—
Hollis, James L. 3,020,399.
Myrick, Joseph C. 3,062,913.
Rixson, Oscar C., Co., The: *See*—
Ellis, David H. 3,040,372.
Rizer, Noble L. Shovel type cultivator. 3,026,946, 3–27–62, Cl. 172—656.
Rizk, Waheeb, to The English Electric Co. Ltd. Starting control arrangements of gas turbines. 3,057,155, 10–9–62, Cl. 60—39.14.
Rizzetti, Lidio, to Dalmine S.p.A. Method and apparatus for marking curved surfaces. 3,054,494, 9–18–62, Cl. 197—6.4.
Rizzi, Luigi, & C., S.p.A.: *See*—
Gianoglio, Ermanno. 3,041,865.
Rizzi, Peter A., and G. C. Shaw, to Raytheon Co. Microwave filters. 3,058,072, 10–9–62, Cl. 333—73.
Rizzo, Vincent J.: *See*—
Hanus, Edward J., and Rizzo. 3,035,982.
Rizzonelli, Rose A. Shoe heel protector. 3,025,617, 3–20–62, Cl. 36—72.
Rizzuto, Angelo A. Hinge locking device. 3,048,883, 8–14–62, Cl. 16—144.
Roach, Charles D. Bow and stern construction of barges or like vessels adapted to be towed. 3,016,862, 1–16–62, Cl. 114—62.
Roach, Erskine E., to Harold Brown Co. Magnetic check valve. 3,026,903, 3–27–62, Cl. 137—533.13.
Roach, Erskine E., to Harold Brown Co. Plunger lift control apparatus. 3,031,971, 5–1–62, Cl. 103—52.
Roach, Erskine E., and I. W. Baker, to Harold Brown Co. Plunger lift for wells. 3,020,852, 2–13–62, Cl. 103—225.
Roach, George H.: *See*—
Shermling, Oluf D. 3,069,752.
Roach, James R., and T. B. Jordan, to Texaco Inc. Process for preparing complex calcium salt-calcium soap grease. 3,068,173, 12–11–62, Cl. 252—39.
Roach, James R., and F. T. Crookshank, to Texaco Inc. Process for preparing complex calcium salt-calcium soap grease. 3,068,175, 12–11–62, Cl. 252—39.
Roach, Jerome C.: *See*—
Frank, Arne, and Roach. 3,044,688.
Roach, John J.: *See*—
Laurent, Milton P. 3,054,173.
Roach, Justus L. Minnow box. 3,044,209, 7–17–62, Cl. 43—56.
Roach, Ralph H., to United Shoe Machinery Corp. Shoe shaping machine-edge gage. 3,038,183, 6–12–62, Cl. 12—53.5.
Roach, Robert F.: *See*—
Vogel, Henry A., Rylander, and Roach. 3,016,357.
Roalef, Robert R. Semi-conductor diode current limiting device. 3,027,466, 3–27–62, Cl. 307—88.5.
Roan, Clifford C., and L. Rai. Fumigating composition. 3,022,217, 2–20–62, Cl. 167—39.
Roane Hosiery, Inc.: *See*—
Graves, Ralph M. 3,051,104.
Roark, James J.: *See*—
Meier, Edwin H., Roark, Skelton, and Webster. 3,037,186.
Roark, Richard E., ⅛ to G. J. Hensen, and ⅛ to D. Winkjer. Automobile window screen. 3,064,725, 11–20–62, Cl. 160—354.
Roark Toark Tool Co.: *See*—
Hayes, Henry L. Re. 25,274.
Robandt, William F., Jr.: *See*—
Cobb, Clifton A., Orr, and Robandt. 3,019,814.
Cobb, Clifton A., Orr, and Robandt. 3,045,696.
Robarts, Hugh W.: *See*—
Leat, James H., Robarts, and Gibbs. 3,049,195.
Robb, David T., to General Dynamics Corp. Pre-test test circuit for a line routiner. 3,047,680, 7–31–62, Cl. 179—175.2.
Robb, Ernest W., II: *See*—
Bavley, Abraham, and Robb. 3,047,431.
Bavley, Abraham, and Robb. 3,047,432.
Bavley, Abraham, and Robb. 3,047,433.
Robb, Frank B., to Truck and Trailer Products, Inc. Splash guard control means. 3,059,945, 10–23–62, Cl. 280—154.5.
Robb, Frank B., and S. J. Kosik, Jr. Valve stem retainer. 3,018,815, 1–30–62, Cl. 152—427.
Robb, Ian E., and R. J. Langzettel, to Cannon Electric Co. Electrical connector for strip cable. 3,065,446, 11–20–62, Cl. 339—154.
Robb, John E., to United States of America, Atomic Energy Commission. Threaded adaptor for lugged pipe ends. 3,037,796, 6–5–62, Cl. 285—3.
Robb, Joseph, & Co., Ltd.: *See*—
Brooks, Robert S., and Berridge. 3,037,829.
Robb, Lester D., to Minnesota Mining and Mfg. Co. Polyblends of a thermoplastic tetrafluoroethylene polymer latex and an elastomeric fluorocarbon polymer latex and article coated therewith. 3,019,206, 1–30–62, Cl. 260—29.6.
Robb, Lester E., to Minnesota Mining and Mfg. Co. Cross-linking and cross-linking agents. 3,029,227, 4–10–62, Cl. 260—77.5.
Robb, Walter Y., to Crompton & Knowles Corp. Harness motion for loom. 3,016,923, 1–16–62, Cl. 139—46.
Robbie, Kenneth A.: *See*—
Janos, Alfred G., Solley, and Robbie. 3,034,313.
Solley, Douglas A., Jr., and Robbie. 3,050,955.
Robbie, Kenneth A., to General Electric Co. Defrost water drain seal. 3,050,957, 8–28–62, Cl. 62—285.
Robbins, Albert A., to Kwik-Kold of America, Inc. Chemical cooling stick for beverages. 3,023,587, 3–6–62, Cl. 62—4.
Robbins, Albert A. Cooling pack with releasable constriction. 3,058,313, 10–16–62, Cl. 62—4.
Robbins, Albert L. Stapling device. 3,034,128, 5–15–62, Cl. 1—49.
Robbins, Alfred, to Perfect-Line Mfg. Corp. Spring loaded cover means. 3,029,972, 4–17–62, Cl. 220—35.
Robbins, Archie L., to Phillips Petroleum Co. Odor inhibitors for olefin polymers. 3,020,258, 2–6–62, Cl. 260—45.9.
Robbins, Archie L., and K. R. Mills, to Phillips Petroleum Co. Odor inhibitors for olefin polymers. 3,028,363, 4–3–62, Cl. 260—45.85.
Robbins, Archie L., and K. R. Mills, to Phillips Petroleum Co. Compositions comprising an olefin polymer, carbon black and dithiobisbenzothiazole and process for curing same. 3,054,494, 8–21–62, Cl. 260—41.
Robbins Aviation, Inc.: *See*—
Robbins, Hugh C. 3,029,581.
Robbins, Hugh C. 3,047,993.
Robbins & Bendror Associates Inc.: *See*—
Robbins, Leo, and Bendror. 3,068,841.
Robbins, Clyde F.: *See*—
Byrnes, Richard J., Eck, Robbins, and Sadowski. 3,058,-567.
Davis, Charles C., and Robbins. 3,026,385.
Robbins, Daniel T. Self-ventilating sole. 3,050,875, 8–28–62, Cl. 36—3.
Robbins, Earl R.: *See*—
Brown, Burton P., and Robbins. 3,041,558.
Robbins, Enos D., to Eli Lilly and Co. Analgesic compositions. 3,026,954, 5–29–62, Cl. 167—65.
Robbins, Frank E. Wiper blade construction for wiped film liquid processors. 3,054,444, 9–18–62, Cl. 159—6.
Robbins, Frederick P. Apparatus for moving loose material. 3,061,122, 10–30–62, Cl. 214—132.
Robbins, Gordon B., to E. I. du Pont de Nemours and Co. Chemical process and composition. 3,038,775, 6–12–62, Cl. 8—89.
Robbins, Hugh C., to Robbins Aviation, Inc. Desiccating apparatus. 3,029,581, 4–17–62, Cl. 55—316.
Robbins, Hugh C., to Robbins Aviation, Inc. Hermetically sealed cartridge with leak detection means. 3,047,993, 8–7–62, Cl. 55—274.
Robbins, Jack W. Clarinets. 3,017,798, 1–23–62, Cl. 84—382.
Robbins, James D.: *See*—
Curtis, Richard A., and Robbins. 3,035,428.
Robbins, James S., deceased, by W. W. Miller, executor, to Goodman Mfg. Co. Feeding means for rotary head tunneling machine. 3,061,287, 10–30–62, Cl. 262—7.
Robbins, James S., deceased, by W. W. Miller, executor, to Goodman Mfg. Co. Steering means for rotary head tunneling machine. 3,061,288, 10–30–62, Cl. 262—7.
Robbins, James S., deceased, by W. W. Miller, executor, to Goodman Mfg. Co. Rotary head tunneling machine. 3,061,289, 10–30–62, Cl. 262—7.

Robbins, Leo, and A. L. Liccardi, to Baldwin-Lima-Hamilton Corp. Voltage responsive control circuit. 3,060,351, 10–23–62, Cl. 317—149.

Robbins, Leo, and J. Bendror, to Robbins & Bendror Associates Inc. Hydraulic pressure system. 3,068,841, 12–18–62, Cl. 121—38.

Robbins, Miriam G. Wet clothing drying rack. 3,055,509, 9–25–62, Cl. 211—119.

Robbins & Myers, Inc. : *See*—
Buttner, Carl M. 3,031,171.
Stone, Howard B. 3,035,222.
Weed, Herman R. 3,045,177.

Robbins, Othel W. : *See*—
Roe, Richard C., and Robbins. 3,031,230.

Robbins, Ralph, to Imperial Foam Rubber Corp. Perforated abrasive faced scrubbing pad. 3,021,649, 2–20–62, Cl. 51—185.

Robbins, Sydney : *See*—
Freeman, James H., Robbins, and Sterling. 3,026,284.

Robbins, Wilbur D., to National Mine Service Co. Mining machine rotary cutting device. 3,038,710, 6–12–62, Cl. 262—19.

Robbins, William K. Interlocked joint having removable abutment in lateral compression. 3,031,219, 4–24–62, Cl. 287—103.

Robbins, William K. Detachable link connector having laterally removable cross bar. 3,068,637, 12–18–62, Cl. 59—85.

Robbins, William K., and O. C. Behymer, to Esso Research and Engineering Co. Production of solvents. 3,039,957, 6–19–62, Cl. 208—212.

Robbins, William W., to International Harvester Co. Anvil assembly for forging hammers. 3,043,167, 7–10–62, Cl. 78—44.

Roben, Lloyd H. : *See*—
Stevens, William A., and Roben. 3,026,967.

Roberson, Alfred C. Key ejecting means. 3,019,634, 2–6–62, Cl. 70—388.

Roberson, Bob J., 10% to A. R. Allison. Process and means for determining hole direction in drilling. 3,037,295, 6–5–62, Cl. 33—205.

Roberson, Cletis L., to Owens-Corning Fiberglas Corp. Method of forming fibers. 3,019,078, 1–30–62, Cl. 18—54.

Roberson, Cletis L., to Owens-Corning Fiberglas Corp. Method and apparatus for producing fibers. 3,021,558, 2–20–62, Cl. 18—2.5.

Roberson, Ida H. Portable artificial respirator. 3,037,497, 6–5–62, Cl. 128—29.

Roberson, Joe E. : *See*—
Nagle, Garrett S., and Roberson. 3,049,229.

Roberson, Peggie R. H. Foot measuring device. 3,018,554, 1–30–62, Cl. 33—3.

Roberson, Robert E., and J. V. Breakwell, to North American Aviation, Inc. Satellite vehicle structure. 3,031,154, 4–24–62, Cl. 244—1.

Roberson, Robert E., K. H. Rogers, and B. P. Martin, to North American Aviation, Inc. Satellite stabilizer. 3,048,-108, 8–7–62, Cl. 102—50.

Roberson, William D. : *See*—
Klug, Eugene D., and Roberson. 3,049,537.

Robert, Andre C., to Societe Nationale de Constructions Aeronautiques, Sud-Aviation. Method and device for angular measurements by means of microwaves. 3,032,760, 5–1–62, Cl. 343—119.

Robert, Hobart V., Jr. : *See*—
Oisbei, John R., and Robert. 3,044,823.

Robert Hosiery Mills, Inc. : *See*—
Servin, Robert S. 3,016,631.
Servin, Robert S. 3,032,898.

Robert, Jacques G. : *See*—
Jacob, Robert M., and Robert. 3,047,571.

Robert, John : *See*—
Beckman, George H., and Robert. 3,034,199.

Robert, Roger A., and P. P. Matge. Rocket-bomb firing apparatus. 3,048,086, 8–7–62, Cl. 89—1.7.

Roberti, Michael A., and R. A. Walter, to The Bendix Corp. Phase shift control network. 3,049,660, 8–14–62, Cl. 323—111.

Roberti, Vincent V. : *See*—
Lang, Charles W., and Roberti. 3,044,009.

Roberts, Allen W. : *See*—
Rea, Wilton T., and Roberts. 3,064,080.

Roberts Brass Mfg. Co., The : *See*—
Wildern, William J. 3,038,695.

Roberts, Carleton W., to The Dow Chemical Co. N-tertiarybutyl-1,4,5,6-tetrachloro-7,8-dioxobycyclo(2.2.2.) oct-5-ene-2-carboxamide. 3,050,557, 8–21–62, Cl. 260—557.

Roberts, Carleton W., D. H. Haigh, R. H. Hall, and J. J. Lamson, to The Dow Chemical Co. Molding composition of rubber reinforced styrene polymer and low molecular weight homopolymer of ar-tert.-butylstyrene and method of making same. 3,029,217, 4–10–62, Cl. 260—45.5.

Roberts, Carleton W., and D. H. Haigh, to The Dow Chemical Co. Transparent thermoplastic compositions of polyvinyl chloride, copolymers of alkenyl aromatic hydrocarbon and acrylonitrile, and a mutualizing agent and method of making the same. 3,043,795, 7–10–62, Cl. 260—33.8.

Roberts, Charles G. Automatic flood control means. 3,048,-186, 8–7–62, Cl. 137—111.

Roberts, Charles H. Tapping tool. 3,053,101, 9–11–62, Cl. 74—205.

621173—P——56

Roberts, Charles K. : *See*—
Welch, Nicholas A., and Roberts. 3,045,468.

Roberts, Charles K., to Dieboid, Inc. Sonic alarm system. 3,061,829, 10–30–62, Cl. 340—258.

Roberts, Charles S., Jr., and R. G. Abb. Boat anchor. 3,064,-614, 11–20–62, Cl. 114—206.

Roberts Chemicals, Inc. : *See*—
Fike, Elmer A. 3,065,124.

Roberts Co., The : *See*—
Hill, Harvey J. 3,068,922.

Roberts, David H. : *See*—
Summerlin, Frederick A., and Roberts. 3,062,993.

Roberts, Deering S., to The American Thermos Products Co. Fire lighters. 3,034,872, 5–15–62, Cl. 44—38.

Roberts, Derek A., and E. Page, to Rolls-Royce Ltd. Axial-flow blading with internal fluid passages. 3,051,438, 8–28–62, Cl. 253—39.15.

Roberts, Donald R., and M. H. McGuire, to Personal Products Corp. Supporting device. 3,057,354, 10–9–62, Cl. 128—289.

Roberts, Douglas, to Witco Chemical Co. Ltd. Process and apparatus for manufacturing impregnated fibrous materials. 3,042,573, 7–3–62, Cl. 156—285.

Roberts, Earl T., ½ to L. E. Dwyer. Apparatus for operating a fluorescent lamp. 3,029,362, 4–10–62, Cl. 315—86.

Roberts, Edwin E. Water ski towing gear. 3,041,996, 7–3–62, Cl. 114—235.

Roberts, Elmer G. : *See*—
German, Richard C., Arnett, and Roberts. 3,019,597.

Roberts, Elwyn, and T. Martin, to Minister of Aviation, in Her Majesty's Government of the United Kingdom of Great Britain and Northern Ireland. Manufacture of guanidine nitrate. 3,043,878, 7–10–62, Cl. 260—564.

Roberts, Emmett T., Jr., W. E. Liljestrand, and H. B. Young, to Mission Mfg. Co. Valve seats. 3,063,467, 11–13–62, Cl. 137—516.29.

Roberts, Frank K. : *See*—
Krafft, Frederich B., and Roberts. 3,042,336.

Roberts, Frank S., to Durie & Miller of Canada Ltd. Underlay for rugs and carpets. 3,031,325, 4–24–62, Cl. 117—16.

Roberts, Franklin B., to Package Machinery Co. Glue applying means for wrapping machines. 3,067,557, 12–11–62, Cl. 53—210.

Roberts, Fred T. and R. E. Method of making reinforced corrugated hose. 3,015,599, 1–2–62, Cl. 156—144.

Roberts, Fred T. and R. E. Method of making a reinforced corrugated hose. 3,021,245, 2–13–62, Cl. 156—144.

Roberts, Fred T. and R. E. Method of making a reinforced flexible hose having internal and external corrugations. 3,028,276, 4–3–62, Cl. 156—144.

Roberts, Fred T. and R. E. Method of making flexible reinforced corrugated hose. 3,028,289, 4–3–62, Cl. 156—143.

Roberts, Fred T. and R. E. Method and apparatus for forming a reinforced corrugated hose. 3,028,290, 4–3–62, Cl. 156—145.

Roberts, Fred T. and R. E. Method of making spirally corrugated reinforced flexible hose. 3,028,291, 4–3–62, Cl. 156—143.

Roberts, Fred T. and R. E., to Fred T. Roberts & Co. Clamping means. 3,054,585, 9–18–62, Cl. 248—74.

Roberts, Fred T., & Co. : *See*—
Roberts, Fred T. and R. E. 3,054,585.

Roberts, Frederick W. : *See*—
Curtis, Roger C., and Roberts. 3,047,785.

Roberts, Frederick W., to Dictaphone Corp. Belt record drive mechanism. 3,039,656, 4–17–62, Cl. 74—241.

Roberts, Frederick W., J. R. Montgomery, and F. W. Schueler, to Dictaphone Corp. Single or repetitive reproduction of sound signals on a loop-shaped record. 3,024,319, 3–6–62, Cl. 179—100.2.

Roberts, Frederick W., L. R. Jones, A. L. Di Mattia, and R. C. Curtis, to Dictaphone Corp. Failure detecting and indicating means for sound recording systems. 3,051,795, 8–28–62, Cl. 179—100.1.

Roberts, Frederick W., J. R. Montgomery, and D. B. Tiffany, to Dictaphone Corp. Backspacing apparatus for transcribing machines. 3,052,762, 9–4–62, Cl. 179—100.2.

Roberts, Frederick W., and J. R. Montgomery, to Dictaphone Corp. Reels. 3,064,917, 11–20–62, Cl. 242—71.8.

Roberts, George A., and J. C. Hamaker, Jr., to Vanadium Alloys Steel Co. Low carbon high strength steel. 3,036,-912, 5–29–62, Cl. 75—126.

Roberts, George I., to The Bendix Corp. Coil forming means to provide symmetrical resistance in a multi-coil electrical device. 3,055,601, 9–25–62, Cl. 242—1.1.

Roberts, George I., to The Bendix Corp. Apparatus for winding field coils. 3,061,211, 10–30–62, Cl. 242—1.1.

Roberts, George I., to The Bendix Corp. Automatic apparatus for winding field coils. 3,061,212, 10–30–62, Cl. 242—1.1.

Roberts, George S., to Ethyl Corp. Transport container unit. 3,023,934, 3–6–62, Cl. 222—143.

Roberts, Harold C. Adjustable chair assembly. 3,069,124, 12–18–62, Cl. 248—404.

Roberts, Harold J. : *See*—
Thomas, De Loss V., and Roberts. 3,045,636.

Roberts, Henry E., to Ross-Tacony Crucible Co. Stopper rod assemblies. 3,027,611, 4–3–62, Cl. 22—85.

Roberts, Hobart V., Jr. : *See*—
Lenz, Emory W., and Roberts. 3,016,968.

Roberts, Hugh L., to Imperial Chemical Industries Ltd. Chlorofluorocarbons. 3,032,597, 5–1–62, Cl. 260—653.
Roberts, Hugh L., to Imperial Chemical Industries Ltd. Process for the production of SF_5Cl. 3,035,890, 5–22–62, Cl. 23—14.
Roberts, Hugh L., to Imperial Chemical Industries Ltd. Process for the production of SF_5Cl. 3,035,892, 5–22–62, Cl. 23—14.
Roberts, Hugh L., to Imperial Chemical Industries Ltd. Preparation of sulfur halogen compound. 3,035,893, 5–22–62, Cl. 23—14.
Roberts, Hugh L., to Imperial Chemical Industries Ltd. Inorganic sulphur compounds. 3,053,744, 9–11–62, Cl. 204—157.
Roberts, Hugh L., to Imperial Chemical Industries Ltd. Process for polymerizing tetrafluoroethylene with sulfur chloride pentafluoride and ultraviolet radiation. 3,063,922, 11–13–62, Cl. 204—161.
Roberts, Hugh L., to Imperial Chemical Industries Ltd. Condensation products of tetrafluoroethylene and sulfur chloride pentafluoride. 3,063,972, 11–13–62, Cl. 260—79.
Roberts, Ingham S., to American Viscose Corp. Dual yarn winding apparatus. 3,030,039, 4–17–62, Cl. 242—18.
Roberts, Ingham S., to American Viscose Corp. Expandable mandrel. 3,052,420, 9–4–62, Cl. 242—46.3.
Roberts Instruments Co.: *See*—
Koetting, Robert A. 3,025,755.
Roberts, Irving M., and D. Horvitz, to FMC Corp. N-aminoazetidine and preparation thereof. 3,069,412, 12–18–62, Cl. 260—239.
Roberts, J S. Mechanical monorail drop switch. 3,022,745, 2–27–62, Cl. 104—99.
Roberts, James A.: *See*—
Frisch, Howard R., and Roberts. 3,023,413.
Roberts, James H., to Jeffrey Galion Mfg. Co. Compactor roller. 3,051,063, 8–28–62, Cl. 94—50.
Roberts, James H., Jeffrey Galion Mfg. Co. Multi-wheel compactor roller. 3,060,818, 10–30–62, Cl. 94—50.
Roberts, James S.: *See*—
Welch, Elmer S., O'Meara, and Roberts. 3,038,488.
Roberts, James S., to Spud's Tools & Die, Inc. Frame fastener for window structure. 3,021,577, 2–20–62, Cl. 20—40.
Roberts, Joe E., and M. G. Davenport, to Lilliston Implement Co. Rotary mower for cutting hay. 3,041,810, 7–3–62, Cl. 56—254.
Roberts, John A., to General Electric Co. Leak detector indicating circuit. 3,065,411, 11–20–62, Cl. 324—33.
Roberts, John S., and A. T. Walter, to Union Carbide Corp. Textile fibers of polyolefins. 3,048,467, 8–7–62, Cl. 18—54.
Roberts, John W., to Sears, Roebuck and Co. Display hanger for neckties. 3,032,242, 5–1–62, Cl. 223—87.
Roberts, Louis W., to Microwave Electronic Tube Co., Inc. High power microwave switching device. 3,017,534, 1–16–62, Cl. 315—39.
Roberts, Marvin T. Feeding device for an apple paring and coring machine. 3,026,976, 3–20–62, Cl. 214—1.
Roberts, Morris W.: *See*—
McLain, Milton E., Jr., and Roberts. 3,024,172.
Roberts, Norman: *See*—
Goodall, Donald G., Hatton, and Roberts. 3,067,578.
Roberts, Orace P., Jr.: *See*—
Yendall, Edward F., Roberts, La Plante, and Kahl. 3,057,167.
Roberts Paving Co., Inc.: *See*—
Harpster, Walter C. 3,035,823.
Roberts, Ralph R., and C. A. Bekker. Garment hangers. 3,029,990, 4–17–62, Cl. 223—88.
Roberts, Richard B.: *See*—
Henderson, Joseph E., Hafstad, and Roberts. 3,064,578.
Roberts, Richard J.: *See*—
Thorman, Richard L., and Roberts. 3,056,501.
Roberts, Richard L.: *See*—
Lynn, John W., and Roberts. 3,028,416.
Lynn, John W., and Roberts. 3,036,093.
Lynn, John W., and Roberts. 3,048,628.
Lynn, John W., and Roberts. 3,062,871.
Lynn, John W., and Roberts. 3,069,457.
Lynn, John W., Roberts, and Tinsley. 3,057,880.
Roberts, Richard L., and J. W. Lynn, to Union Carbide Corp. Decolorization method for pimelic acid. 3,043,872, 7–10–62, Cl. 260—537.
Roberts, Robert E.: *See*—
Roberts, Fred T. and R. E. 3,015,599.
Roberts, Fred T. and R. E. 3,021,245.
Roberts, Fred T. and R. E. 3,028,276.
Roberts, Fred T. and R. E. 3,028,289.
Roberts, Fred T. and R. E. 3,028,290.
Roberts, Fred T. and R. E. 3,028,291.
Roberts, Fred T. and R. E. 3,054,585.
Roberts, Robert V. Child's amusement vehicle. 3,066,935, 12–4–62, Cl. 272—33.
Roberts, Ronald W., and W. T. Conry, to Westinghouse Electric Corp. Temperature indicating device. 3,068,698, 12–18–62, Cl. 73—342.
Roberts, Ross L., to American Hospital Supply Corp. Overhead wall light. 3,022,416, 2–20–62, Cl. 240—73.
Roberts, Roy F., to Aerojet-General Corp. Solid composite propellant containing crosslinked polyester resin. 3,031,288, 4–24–62, Cl. 149—19.
Roberts, Roy W., Jr. and B. R. Capone, to United States of America, Air Force. Passive electronic switching for oscilloscopes. 3,032,679, 5–1–62, Cl. 315—26.
Roberts, Royal N., to Goyne Pump Co. Solids handling devices. 3,046,059, 7–24–62, Cl. 302—14.
Roberts, Shepard, to General Electric Co. Method of making a piezo-electric device. 3,055,081, 9–25–62, Cl. 29—25.3.
Roberts, Simon. Lawn sprinkling control system. 3,063,643, 11–13–62, Cl. 239—70.
Roberts, Thomas E., Jr.: *See*—
Mumma, Harold J., and Roberts. 3,031,077.
Roberts, Wayne E.: *See*—
Clark, Murl W., and Roberts. 3,035,724.
Roberts, William H.: *See*—
Ashley, Carlyle M., and Roberts. 3,041,047.
Roberts, William J. Combination hydraulic sweeper and sprayer. 3,064,904, 11–20–62, Cl. 239—287.
Roberts, William L., to United States Steel Corp. Screwdown control system for reversing mill. 3,044,330, 7–17–62, Cl. 80—56.
Roberts, William L., and E. De Faymoreau, to International Telephone and Telegraph Corp. Strobing circuit. 3,030,620, 4–17–62, Cl. 343—13.
Robertshaw-Fulton Controls Co.: *See*—
Bauer, Werner R. 3,022,399.
Besemer, Richard L. 3,040,152.
Bristol, David A. 3,043,579.
Crafts, Cecil A. 3,037,079.
Crossley, Harry E., Jr. 3,061,823.
Davidson, Thomas J. 3,021,857.
Demi, Roy C. 3,061,056.
Graham, Marvin M., and Wright. 3,052,264.
Hardway, Edward V., Jr. 3,035,450.
Hewitt, John C., Jr. 3,068,333.
Hewitt, John C., Jr. 3,069,125.
Houser, Roy W. 3,046,375.
Houser, Roy W., and Rice. 3,036,470.
Jones, Leon. 3,050,054.
Kreuter, Kenneth G. 3,044,402.
Maltby, Frederick L., and Sklaroff. 3,065,462.
Manecke, Siegfried E. 3,047,705.
Matchett, John C. 3,059,079.
McFarlane, Maynard D. 3,067,312.
Metz, Ramey B., and Lawrence. 3,054,881.
Nye, Dudley D., and Paradise. 3,048,770.
Puster, Louis M. 3,055,384.
Rauh, Herbert H. 3,045,919.
Rauh, Herbert H. 3,050,258.
Sable, Arthur J. 3,031,611.
Sable, Arthur J. 3,040,575.
Shivers, Paul F. 3,044,295.
Strobel, Charles K., Conner, and McMichael. 3,034,354.
Tyler, Hugh J. 3,040,155.
Tyler, Hugh J. 3,059,084.
Wagner, Joseph P. 3,046,787.
Wagner, Joseph P. 3,057,556.
Wantz, Clarence, and Kunzler. 3,062,449.
Weber, Victor and Branson. 3,042,110.
Weber, Victor, Branson, and Beal. 3,044,299.
Weber, Victor, and Russell. 3,049,924.
Willson, James R. and Branson. 3,050,255.
Wolfe, Denis G. 3,038,043.
Wolfskill, John M. 3,038,056.
Robertson, Aldis G. Holding device for steel wool pads. 3,046,590, 7–31–62, Cl. 15—209.
Robertson, Anthony E., to Aerial Products, Inc. Process for fluoridating water. 3,027,304, 3–27–62, Cl. 167—93.
Robertson, Anthony E., W. J. Donahue, and L. R. Butler. Drag operated parachute release mechanism. 3,038,407, 6–12–62, Cl. 102—34.1.
Robertson, Carter, to Lockheed Aircraft Corp. Photoelectric sampling switch. 3,059,116, 10–16–62, Cl. 250—209.
Robertson, Daniel S.: *See*—
Bagnall, Kenneth W., and Robertson. 3,038,787.
Robertson, Dennis K. Seal setting tool. 3,057,052, 10–9–62, Cl. 29—275.
Robertson, Donald, and R. W. Ross, to Leeds and Northrup Co. Quick disconnecting means for expendable thermocouples. 3,055,961, 9–25–62, Cl. 136—4.
Robertson, Donald D.: *See*—
Igenfritz, Lester M., Moore, and Robertson. 3,016,514.
Robertson, Donald D., to Bell Telephone Laboratories, Inc. Signal translating system. 3,041,993, 7–3–62, Cl. 114—23.
Robertson, Douglas, to The Rowntree Co. Ltd. Conveying apparatus. 3,028,947, 4–10–62, Cl. 198—37.
Robertson, Douglas W., and W. B. Warren, Jr., to The Georgia Tech Research Institute. Crystal oscillator utilizing crystal holder capacity at very high frequencies. 3,068,426, 12–11–62, Cl. 331—159.
Robertson Electric Co., Inc.: *See*—
Colbert, Lee J. 3,054,849.
Robertson, Frank F.: *See*—
Anderson, Clifford E., Robertson, and Kinley. 3,061,938.
Robertson, H. H., Co.: *See*—
Clay, Richard H. 3,029,561.
Clay, Richard H. 3,044,772.
Curran, Bernard E. 3,025,883.
Curran, Bernard E., Kautz, and Marshall. 3,059,564.
Fork, Frank W. 3,023,265.
Fork, Frank W. 3,053,013.
Fork, Frank W. 3,053,014.
Fork, Frank W. 3,063,592.
Goemann, Richard P., and Norton. 3,019,987.
Harris, Robert E. 3,026,404.
Jentoft, Arthur P. 3,026,041.

Robertson, H. H., Co.: *See*—Continued
Jueng, Carl F. 3,058,412.
Jueng, Carl F., and Miller. 3,040,646.
Lassen, Dallas D. 3,054,482.
Lindner, Robert G. 3,066,594.
Singleton, Fred G., and Keenan. 3,061,492.
Wiesmann, Joseph W. 3,028,966.

Robertson, Harry G. Loader beam assemblies for freight cars, trucks, and the like. 3,051,099, 8–28–62, Cl. 105—369.

Robertson, Harry J., H. Frank, A. A. Alterman, and B. N. Oxman, to International Meat Processors, Inc. Method of treating meat and bone. 3,028,243, 4–3–62, Cl. 99—107.

Robertson, Harry R. Circuit to dis-associate beam-controlled circuit from elevator door control system. 3,066,762, 12–4–62, Cl. 187—52.

Robertson, James J.: *See*—
Timmons, William D., Jr., and Robertson. 3,038,891.

Robertson, John S. M.: *See*—
McIntyre, James E., and Robertson. 3,055,888.

Robertson, Judson H., to The University of Tennessee Research Corp. Vapor density measuring apparatus. 3,026,-187, 3–20–62, Cl. 23—292.

Robertson, Neil F. Pilot controlled diaphragm valve. 3,023,-996, 3–6–62, Cl. 251—14.

Robertson Paper Box Co. Inc.: *See*—
Pescatello, Tufanio J. 3,035,636.
Tyrseck, Walter J. 3,015,432.

Robertson, Philip A.: *See*—
Penney, Harlan B., and Robertson. 3,037,464.

Robertson Photo-Mechanix, Inc.: *See*—
Keller, Daniel F., and Beck. 3,040,642.
Wanielista, Walter, and Keller. 3,028,786.
Wanielista, Walter, and Sippel. 3,044,378.

Robertson, Raymond G.: *See*—
Ward, Paul J., Johnson, and Robertson. 3,061,442.

Robertson, Sloan D., to Bell Telephone Laboratories, Inc. High frequency apparatus of the traveling wave type. 3,065,373, 11–20–62, Cl. 315—3.6.

Robertson, Snell: *See*—
Rives, Holcolm D., Robertson, and Allen. 3,037,408.

Robertson, Theodore F.: *See*—
Bergin, John A., and Robertson. 3,066,958.

Robertson, William: *See*—
Agnew, Robert J., Truitt, and Robertson. 3,030,308.

Robertson, William J., and J. R. Copeland, to The Ohio State University Research Foundation. Tunnel diode frequency conversion circuit. 3,041,452, 6–26–62, Cl. 325—439.

Robeson, Charles D., to Eastman Kodak Co. Synthesis of oxygenated carotenoids. 3,033,897, 5–8–62, Cl. 260—488.

Robeson, Max O., and J. H. George, to Celanese Corp. of America. 2-alkenyl-5-lower alkyl-5-hydroxymethyl-meta dioxanes. 3,054,803, 9–18–62, Cl. 260—340.7.

Robey & Co., Ltd.: *See*—
Crompton, Arthur. 3,047,102.

Robichaud, Lewis W. Coin packaging bank. 3,044,232, 7–17–62, Cl. 53—254.

Robichaux, Arthur L. Fish scaler. 3,048,884, 8–14–62, Cl. 17—7.

Robichaux, Roy P. Butter churning apparatus. 3,069,996, 12–25–62, Cl. 99—244.

Robicsek, Francis. Blood flow meter. 3,017,885, 1–23–62, Cl. 128—214.

Robideaux, Joseph K.: *See*—
Novak, Charles, Meadows, Origer, and Robideaux. 3,032,968.

Robie, Norman P., to Electro Refractories & Abrasives Corp. Hard abrasive material and method of making. 3,048,493, 8–7–62, Cl. 106—55.

Robiette, Alfred G. E., to AEI-Birlec Ltd. Clamps. 3,064,166, 11–13–62, Cl. 317—163.

Robin, Burton H.: *See*—
Bradley, Thomas W., Robin, and Farbak. 3,033,796.

Robin, Dorothea S.: *See*—
Robin, Percival A. 3,040,174.

Robin, Harold K., to National Research Development Corp. Reader systems. 3,020,342, 2–6–62, Cl. 178—52.

Robin, Jacques: *See*—
Morin, Lionel, and Robin. 3,058,579.

Robin, Percival A., deceased; D. S. Robin, executrix. Device for immobilizing infants for taking X-rays and the like. 3,040,174, 6–19–62, Cl. 250—58.

Robins, A. H., Co., Inc.: *See*—
Lunsford, Carl D. 3,062,826.
Lunsford, Carl D. 3,062,827.
Lunsford, Carl D. 3,062,828.

Robins, Claude L., to Montgomery Ward & Co., Inc. Footwear. 3,029,532, 4–17–62, Cl. 36—50.

Robins, Erford E.: *See*—
Devonshire, William H., Robins, and Schreyer. 3,064,-586.
Parker, Humphrey F., and Robins. 3,049,217.
Parker, Humphrey F., and Robins. 3,068,808.
Parker, Humphrey F., and Robins. 3,068,809.

Robins, Robert F.: *See*—
Gauntt, Wayne M., and Robins. 3,037,896.

Robins, Robert H., to United Insulator Co. Ltd. Electro-mechanical transducers. 3,059,130, 10–16–62, Cl. 310—9.6.

Robins, Roland K.: *See*—
Hitchings, George H., and Robins. 3,021,332.

Robins, Seymour, to Diamond National Corp. Package for sphere-like articles. 3,047,140, 7–31–62, Cl. 206—56.

Robinson, A., & Co. Ltd.: *See*—
Waite, John L. 3,057,383.

Robinson, Alfred J.: *See*—
Weir, James V., and Robinson. 3,033,798.

Robinson, Alfred J., A. P. Aliegrini, and A. J. Mueller, to Minerals & Chemicals Philipp Corp. Activation of clay by acid treatment, supplementary treatment and calcination. 3,016,355, 1–9–62, Cl. 252—424.

Robinson, Alfred J., C. A. Specht, and C. G. Albert, to Minerals & Chemicals Philipp Corp. Method for treating exhaust from an internal combustion engine operated on leaded fuel. 3,025,133, 3–13–62, Cl. 23—2.

Robinson, Alfred J., and W. L. Haden, Jr., to Minerals & Chemicals Philipp Corp. Spherical contact masses. 3,039,-973, 6–19–62, Cl. 252—450.

Robinson, Anderson E., Jr., to Hercules Powder Co. Cross-linking of polymeric epoxides. 3,026,270, 3–20–62, Cl. 260—2.

Robinson, Anderson E., Jr., to Hercules Powder Co. Vulcanization of polymers and copolymers of epichlorohydrin. 3,026,305, 3–20–62, Cl. 260—79.5.

Robinson, Art I., and G. O. Kimmell, to Bear Mfg. Corp. Apparatus for automatically controlling drilling. 3,031,-169, 4–24–62, Cl. 254—173.

Robinson, Augustus S., to The Bendix Corp. Precision infinite memory integrator. 3,021,072, 2–13–62, Cl. 235—183.

Robinson, Bernard H., Jr.: *See*—
Nerwin, Henry N., Jr., and Robinson. 3,065,631.

Robinson, Bertram D. C., K. D. Kirby, and C. G. Greenham, to Imperial Chemical Industries of Australia and New Zealand Ltd. and Commonwealth Scientific and Industrial Research Organizations. Herbicidal method employing hydrazine salts of phenoxycarboxylic acids. 3,031,291, 4–24–62, Cl. 71—2.6.

Robinson, Cecil H.: *See*—
Barton, Derek H. R., and Robinson. 3,026,337.
Gould, David H., and Robinson. 3,026,339.
Gould, David H., and Robinson. 3,032,564.

Robinson, Cecil H., to Schering Corp. 16,16-difluoroestratrienes and intermediates relating thereto. 3,048,602, 8–7–62, Cl. 260—397.1.

Robinson, Cecil H., to Schering Corp. 16,16-difluoroestratrienes. 3,048,605, 8–7–62, Cl. 260—397.5.

Robinson, Cecil H., and E. P. Oliveto, to Schering Corp. Fluorinated androstanes and intermediates relating thereto. 3,045,030, 7–17–62, Cl. 260—397.1.

Robinson, Cecil H., and E. P. Oliveto, to Schering Corp. Fluorinated androstanes. 3,045,032, 7–17–62, Cl. 260—397.4.

Robinson, Cecil S., and W. A. Reider, to Robinson Technical Products, Inc. Retractable seat belt. 3,032,374, 5–1–62, Cl. 280—188.

Robinson, Charles, to Allan E. Jordan & Associates. Combined desk pad and information panels. 3,016,045, 1–9–62, Cl. 120—24.

Robinson, Donald: *See*—
Hammersley, Richard L., and Robinson. 3,056,400.
Simmie, Walter S., Bywater, and Robinson. 3,053,972.
Simmie, Walter S., Bywater, and Robinson. 3,053,974.

Robinson, Donald B., and C. Hollocher, to Joy Mfg. Co. Electrical connector. 3,039,072, 6–12–62, Cl. 339—89.

Robinson, Donald E.: *See*—
West, John R., and Robinson. 3,050,925.

Robinson, Donald W., Jr.: *See*—
Polleys, Owen F., Payton, and Robinson. 3,016,217.

Robinson, Donald W., Jr., and C. B. Packard, to The Kaman Aircraft Corp. Aerial device having rotor for retarding descent. 3,017,147, 1–16–62, Cl. 244—138.

Robinson, Douglas J., to United States of America, Army. Electro-mechanical igniter. 3,063,374, 11–13–62, Cl. 102—49.

Robinson, Earl H., to The Baxter Corp. Cloth winding board. 3,021,945, 2–20–62, Cl. 206—50.

Robinson, Edward L.: *See*—
Shimwell, Rodney H., and Robinson. 3,041,525.

Robinson, Ernest B., and C. K. Bloor, to Robinson & Sons Ltd. Cartons of fibreboard or like sheet material formed with a pouring spout or trough. 3,064,873, 11–20–62, Cl. 229—1.

Robinson, Fay: *See*—
Robinson, Herbert M. 3,044,450.
Robinson, Herbert M., and F. 3,031,548.

Robinson, Franklin M.: *See*—
Wittreich, Paul E., Folkers, and Robinson. 3,056,777.

Robinson, Frederick A., G. L. Huss, to Robinson Mfg. Inc. Method of making a composite sheet. Re. 25,200, 7–17–62, Cl. 156—244.

Robinson Furniture Co.: *See*—
Popowitz, Bruno. 3,067,976.

Robinson, Gene C., to Ethyl Corp. Preparation of organolead compounds. 3,052,702, 9–4–62, Cl. 260—437.

Robinson, Gene C., to Ethyl Corp. Production of organometallic compounds. 3,057,894, 10–9–62, Cl. 260—429.7.

Robinson, Gene C., to Ethyl Corp. Preparation of organolead compounds. 3,057,897, 10–9–62, Cl. 260—437.

Robinson, George D., Jr.: *See*—
Pacey, John J., and Robinson. 3,050,008.

Robinson, George D., Jr., to Gilbert & Barker Mfg. Co. Computer-printer interlock apparatus. 3,021,982, 2–20–62, Cl. 222—30.

Robinson, George H., and E. G. Ross, to General Motors Corp. Method of joining cast iron to steel. 3,022,407, 2–20–62, Cl. 219—9.5.

Robinson, George L., to Blaw-Knox Co. Closure member or the like. 3,019,775, 2–6–62, Cl. 122—498.

Robinson, George Y., Jr.: *See*—
Farrell, James H., Hunsaker, and Robinson. 3,062,402.

Robinson, Gerald W., and R. B. Spencer. Traveling scaffold. 3,066,757, 12–4–62, Cl. 182—36.

Robinson, Gilbert C., to Zonolite Co. Method of making refractory clay products. 3,030,218, 4–17–62, Cl. 106—71.

Robinson, Grover C., Jr., to Reynolds Metals Co. Residual lubricant removal from aluminum foil. 3,061,485, 10–30–62, Cl. 148—13.1.

Robinson, Harold W., to Engelhard Industries, Inc. Spinnerette. 3,044,155, 7–17–62, Cl. 29—183.5.

Robinson, Harry A.: *See*—
Robinson, John J. 3,016,315.

Robinson, Harry A. Fork lift for garden tractor. 3,061,126, 10–30–62, Cl. 214—672.

Robinson, Herbert M.: *See*—
Barr, Samuel W. 3,029,451.

Robinson, Herbert M., deceased; F. Robinson, administratrix. Stop light switch. 3,031,548, 4–24–62, Cl. 200—81.

Robinson, Herbert M., deceased (by F. Robinson, administratrix). Air-powered press with automatic pressure release. 3,044,450, 7–17–62, Cl. 121—38.

Robinson, Herbert T., and M. Di Pietro, to Eastman Kodak Co. Magazine accessory for an automatic slide projector. 3,033,078, 5–8–62, Cl. 88—28.

Robinson, Horace M. Motor-brake unit. 3,045,166, 7–17–62, Cl. 318—367.

Robinson, Hugh A., to United Shoe Machinery Corp. Gas powered transmission. 3,058,372, 10–16–62, Cl. 74—640.

Robinson, Ivan M.: *See*—
Bruce, John M., Jr., and Robinson. 3,042,626.
Gall, Walter G., and Robinson. 3,048,565.
Koch, Theodore A., and Robinson. 3,036,119.
Koch, Theodore A., Robinson, and Wiley. 3,065,264.

Robinson, Jack D., and A. J. Urbanic, to The General Tire & Rubber Co. Laminated articles reinforced with glass fibers. 3,026,228, 3–20–62, Cl. 154—128.

Robinson, James E., to Kaiser Aluminum & Chemical Corp. Apparatus for continuous gauging. 3,034,218, 5–15–62, Cl. 33—148.

Robinson, James E., to J. R. Humpston. Spot vulcanizing device for tires. 3,052,921, 9–11–62, Cl. 18—18.

Robinson, James V., and E. B. Brookbank, Jr., to The Mead Corp. Cast coated paper and method of making the same. 3,020,176, 2–6–62, Cl. 117—64.

Robinson, Jewell, Jr. Pliers. 3,044,081, 7–17–62, Cl. 7—5.5.

Robinson, John A.: *See*—
Fifield, Charles H. Q., Smith, and Robinson. 3,021,274.
Robinson, Joseph D. 3,032,090.

Robinson, John A. Electric welding ground pad. 3,048,807, 8–7–62, Cl. 339—12.

Robinson, John B. Nut gatherer. 3,068,634, 12–18–62, Cl. 56—328.

Robinson, John C.: *See*—
Valdettaro, Alarico A., Lewis, and Robinson. 3,018,372.

Robinson, John J., ½ to C. D. Hall, Jr., and ¼ to H. A. Robinson. Honeycomb structure and method. 3,016,315, 1–9–62, Cl. 154—45.9.

Robinson, John L., to The Dow Chemical Co. Primary cell and anode for use therein. 3,038,019, 6–5–62, Cl. 136—83.

Robinson, John P.: *See*—
McMillan, Warner K., and Robinson. 3,052,905.

Robinson, Joseph D., ½ to J. A. Robinson. Antiskid chain appliance. 3,033,090, 5–1–62, Cl. 152—237.

Robinson, Kenneth A., W. H. Woodward, and R. J. F. Howard, to Lancashier Dynamo Electronic Products Ltd. Control of electric machines. 3,032,668, 5–1–62, Cl. 310—95.

Robinson, Kenneth A., and W. H. Woodward, to Lancashire Dynamo Electronic Products Ltd. Control systems for generators. 3,046,468, 7–24–62, Cl. 322—28.

Robinson, Kenneth A., to Lancashire Dynamo Electronic Products Ltd. Automatic electric current regulators. 3,047,792, 7–31–62, Cl. 323—18.

Robinson, Kenneth I., and J. C. Bandli, to McCulloch Corp. Outboard motor tilt-up device. 3,053,489, 9–11–62, Cl. 248—4.

Robinson, Kenneth J. Anchor davit. 3,025,821, 3–20–62, Cl. 114—210.

Robinson, Kenneth R.: *See*—
Sturrock, Murray G., Cline, Robinson, and Lovin. 3,016,401.

Robinson, Lamson C.: *See*—
Arnett, Thomas L., and Robinson. 3,025,117.

Robinson, Leon H., Jr.: *See*—
Binkley, George W., and Robinson. 3,022,824.

Robinson, Leon H., Jr., to Jersey Production Research Co. Apparatus for drilling boreholes with explosive charges. 3,022,729, 2–27–62, Cl. 102—20.

Robinson, Leon H., Jr., to Jersey Production Research Co. Drilling boreholes with explosive charges. 3,070,010, 12–25–62, Cl. 102—21.

Robinson, Leon H., Jr., and R. H. Friedman, to Jersey Production Research Co. Directional drilling with explosive charges. 3,070,011, 12–25–62, Cl. 102—21.6.

Robinson Mfg. Inc.: *See*—
Robinson, Frederick A., and Huss. Re. 25,200.

Robinson, Maurice E., The Cleveland Formgrader Co. Airport form pin puller. 3,063,676, 11–13–62, Cl. 254—21.

Robinson, Max E. Method and apparatus for estimating forage density. 3,021,477, 2–13–62, Cl. 324—61.

Robinson, Merton L.: *See*—
Miller, Charles E., Robinson, and Woodring. 3,055,301.

Robinson, Nigel D., to Electric & Musical Industries Ltd. Dividing apparatus for digital computers. 3,059,851, 10–23–62, Cl. 235—165.

Robinson, Preston, to Sprague Electric Co. Inductor materials. 3,065,181, 11–20–62, Cl. 252—62.5.

Robinson, Preston, to Sprague Electric Co. Electrical capacitor. 3,066,247, 11–27–62, Cl. 317—230.

Robinson, Preston, and D. G. Rogers, to Sprague Electric Co. Process for electromechanically etching tantalum foil. 3,070,522, 12–25–62, Cl. 204—141.

Robinson, Ralph C.: *See*—
Morrison, David, and Robinson. 3,039,260.

Robinson, Ralph M.: *See*—
Illich, George M., Jr., Robinson, Smart, and Garven. 3,037,046.

Robinson, Ralph O., Jr., to United States of America, Navy. System for obtaining miss distance. 3,029,426, 4–10–62, Cl. 343—6.

Robinson, Richard A., to G. D. Searle & Co. 9-carboxyalkyl-9-pyrid[3,4-b]indole piperazides. 3,015,660, 1–2–62, Cl. 260—268.

Robinson, Richard A., to G. D. Searle & Co. Aminoalkyl esters of 3,4,5-trihalobenzoic acids. 3,025,297, 3–13–62, Cl. 260—268.

Robinson, Robert, and G. I. Fray, to Shell Oil Co. Process for the production of Diels-Alder adducts. 3,067,244, 12–4–62, Cl. 260—514.

Robinson, Robert C.: *See*—
Drosten, Fred W., Weglarz, and Robinson. 3,058,841.

Robinson, Robert E.: *See*—
Frampton, Orville D., and Robinson. 3,067,265.

Robinson, Robert J.: *See*—
Flint, Thomas, and Robinson. 3,061,158.

Robinson, Russell S., to Paeumo Dynamics Corp. Embedment anchor. 3,036,542, 5–29–62, Cl. 114—206.

Robinson, Samuel A., to Philco Corp. Welding method. 3,049,605, 8–14–62, Cl. 219—10.41.

Robinson, Samuel R., to H. K. Porter Co., Inc. Electrical disconnecter for lightning arresters. 3,017,539, 1–16–62, Cl. 317—66.

Robinson, Samuel T.: *See*—
Stoughton, Lincoln D., and Robinson. 3,034,689.

Robinson, Sherman E., to Progress Mfg. Co., Inc. Air sealed burial casket. 3,039,168, 6–19–62, Cl. 27—6.

Robinson, Simon. Rear view mirror for use on motor vehicles. 3,059,540, 10–23–62, Cl. 88—98.

Robinson & Sons Ltd.: *See*—
Robinson, Ernest B., and Bloor. 3,064,873.

Robinson, Stephen B., Jr., and A. H. Bibolet, to Rohm & Haas Co. Method of spinning artificial filaments. 3,055,730, 9–25–62, Cl. 18—54.

Robinson Tag & Label Co.: *See*—
Ferguson, Robert T., Jr. 3,052,051.

Robinson Technical Products, Inc.: *See*—
Robinson, Cecil S., and Reider. 3,032,374.

Robinson, Thomas L., to Automated Circuits, Inc. Printed electrical circuits and method of making the same. 3,024,151, 3–6–62, Cl. 156—150.

Robinson, Thomas L., to Automated Circuits, Inc. Method of making bases for printed electric circuits. 3,060,076, 10–23–62, Cl. 156—220.

Robinson, Ursery S., and C. W. Coffee. Coin depository for parking meter. 3,070,289, 12–25–62, Cl. 232—1.

Robinson, Walter H.: *See*—
West, Robert F., and Robinson. 3,040,792.

Robinson, Warn D., to Monsanto Chemical Co. Catalyst and method of preparing same. 3,053,842, 9–25–62, Cl. 252—461.

Robinson, Wesley A., to Space Technology Laboratories, Inc. Frequency divider systems. 3,046,410, 7–24–62, Cl. 307—11.

Robinson, William C., to Western Electric Co., Inc. Test probe. 3,068,403, 12–11–62, Cl. 324—51.

Robinson, William H. Dual-purpose closure members. 3,061,131, 10–30–62, Cl. 215—41.

Robinson, William H., and C. R. Scheuring, to Buckeye Molding Co. Dispensing device. 3,070,224, 12–25–62, Cl. 206—56.

Robinson, William J. One-man truck body cover. 3,024,063, 3–6–62, Cl. 296—100.

Robischung, Philip J.: *See*—
Bass, Miles M., Bell, Hammond, and Robischung. 3,029,563.

Robishaw, Alces P. Float construction. 3,057,315, 10–9–62, Cl. 114—26.

Robison, James W.: *See*—
Eads, Harold O., and Robison. 3,021,176.

Robison, Paul C., to Space Technology Laboratories, Inc. Tuning arrangement utilizing optical pumping. 3,038,126, 6–5–62, Cl. 331—3.

Robison, Rolf A. One-piece boat. 3,060,464, 10–30–62, Cl. 9—6.

Robison, Samuel B.: *See*—
Baldwin, Francis P., Robison, Miller, and Powers. 3,039,906.
Fusco, James V., and Robison. 3,039,978.
Gardner, Irwin J., Robison, and Makowski. 3,041,304.
Miller, Alfred L., Baldwin, and Robison. 3,052,580.
Miller, Alfred L., Robison, and Petro. 3,022,260.
Powers, Kenneth W., and Robison. 3,035,029.

Robitaille, Robert, and E. Dubois, to Dominion Corset Co., Ltd. Boning for foundation garments. 3,032,775, 5–8–62, Cl. 2—255.

Robitschek, Paul, to Hooker Chemical Corp. Polyurethane foams and the process for making same. 3,058,924, 10–16–62, Cl. 260—2.5.

Robitschek, Paul, to Hooker Chemical Corp. Process for the preparation of polyurethane foams. 3,058,925, 10–16–62, Cl. 260—2.5.

Robitschek, Paul W.: *See*—
Schoepfle, Blaine O., and Robitschek. 3,031,425.
Schweiker, George C., and Robitschek. 3,016,360.
Schweiker, George C., and Robitschek. 3,016,361.
Verbanic, Carl J., Bean, and Robitschek. 3,055,932.
Weinberg, Alan E., Bean, Robitschek, and Schoepfle. 3,031,585.

Roboski, Walter S., to General Motors Corp. Electrode mounting assembly. 3,018,359, 1–23–62, Cl. 219—89.

Robosonic National Industries: *See*—
Waldman, Herbert. 3,049,592.

Robota, Stephen, to Hooker Chemical Corp. Method of producing phosphorus pentasulfide of controlled reactivity. 3,023,086, 2–27–62, Cl. 23—206.

Robotomics Enterprises, Inc.: *See*—
Hempel, Roy A. 3,038,658.

Robotron Corp.: *See*—
Archer, George R. 3,068,350.
Rockafellow, Stuart C. 3,019,393.
Rockafellow, Stuart C. 3,058,010.
Rockafellow, Stuart C., and Thomsen. 3,051,825.

Robotyper Corp.: *See*—
Oxley, Le Roy V., and Blythe. 3,026,985.

Robra, Helmut: *See*—
Billen, Peter, Robra, Müller, and Vievering. 3,031,903.

Robra, Helmut, to Schloemann Aktiengesellschaft. Throttle valves for extrusion presses. 3,027,918, 4–3–62, Cl. 137—624.13.

Robson, Aubrey H., to American Air Filter Co., Inc. Flow control system. 3,025,001, 3–13–62, Cl. 236—80.

Robson, Aubrey H., to American Air Filter Co., Inc. Portable heater. 3,025,407, 3–13–62, Cl. 290—1.

Robson, Aubrey H., to American Air Filter Co., Inc. Air conditioning system. 3,026,687, 3–27–62, Cl. 62—160.

Robson, Aubrey H., to American Air Filter Co. Inc. Safety control system for air heater. 3,051,227, 8–28–62, Cl. 158—28.

Robson, Aubrey H., to American Air Filter Co., Inc. Air heater fuel control system. 3,056,554, 10–2–62, Cl. 236—10.

Robson, Frederick W., to Toledo Scale Corp. Anti-vortex device for dishwashing machines. 3,024,914, 3–13–62, Cl. 210—456.

Robson, Frederick W., to Toledo Scale Corp. Peel trap. 3,057,479, 10–9–62, Cl. 210—232.

Robson, Frederick W., to Toledo Scale Corp. Rackless conveyor for dishwashers. 3,070,216, 12–25–62, Cl. 198—131.

Robson, Harry E., to Esso Research and Engineering Co. Integrated process of ore reduction and gas generation. 3,019,100, 1–30–62, Cl. 75—26.

Robson, Homer L., and B. H. Wojcik, to Olin Mathieson Chemical Corp. Process for preparing sodium carbonate. 3,061,409, 10–30–62, Cl. 23—63.

Robson, James T., to Ferro Corp. Heat treating kiln car end seal. 3,035,323, 5–22–62, Cl. 25—142.

Robson, Norman S., and C. B. Gordon, to Trabon Engineering Corp. Fluid distributor means. 3,025,929, 3–20–62, Cl. 184—7.

Roby, Albert, Sr., to L. Roby. Automatic releasing device for triggering mechanisms. 3,017,776, 1–23–62, Cl. 74—2.

Roby, Leslie: *See*—
Roby, Albert, Sr. 3,017,776.

Roca, Miguel. Magnetic game. 3,053,538, 9–11–62, Cl. 273—139.

Rocchi, Ferdinand A., and F. F. Surowiec, to International Resistance Co. Package for electrical components. 3,048,268, 8–7–62, Cl. 206—65.

Rocchini, Albert G., and C. E. Trautman, to Gulf Research & Development Co. Vanadium-containing petroleum fuels modified with rare earth and alkali metal additives. 3,057,151, 10–9–62, Cl. 60—39.02.

Rocchini, Albert G., and C. E. Trautman, to Gulf Research & Development Co. Vanadium-containing petroleum fuels modified with manganese and alkali metal additives. 3,057,152, 10–9–62, Cl. 60—39.02.

Rocchini, Albert G., and C. E. Trautman, to Gulf Research & Development Co. Vanadium-containing petroleum fuels modified with thorium and alkali metal additives. 3,057,153, 10–9–62, Cl. 60—39.02.

Roch, Josef: *See*—
Fischer, Franz G., Roch, and Kottler. 3,031,450.

Roch, Josef, to Dr. K. Thomae, G.m.b.H. Amino-substituted purine derivatives. 3,016,378, 1–9–62, Cl. 260—247.5.

Roche, Arthur F.: *See*—
Wright, Palmer W., Kozakiewicz, and Roche. 3,043,785.

Roche, Clifton R. Transmission construction. 3,025,725, 3–20–62, Cl. 74—754.

Roche, Clifton R. Automatic transmission. 3,038,353, 6–12–62, Cl. 74—730.

Roche, Clifton R. Automatic transmission. 3,038,574, 6–12–62, Cl. 192—4.

Roche, Clifton R. Automatic transmission. 3,059,740, 10–23–62, Cl. 192—3.2.

Roche, Clifton R. Automatic transmission control system. 3,069,925, 12–25–62, Cl. 74—472.

Roche Products Ltd.: *See*—
Barton, Derek H. R., Weedon, and Davis. 3,053,886.

Roche, Roland, to Commissariat a l'Energie Atomique. Systems for assembling together two pieces having anisotropic expansions. 3,068,162, 12–11–62, Cl. 204—193.2.

Roche, Roland L., and R. Martin, to Commissariat a l'Energie Atomique. Piles of nuclear reactor elements and in particular of moderator material elements. 3,061,532, 10–30–62, Cl. 204—193.2.

Rochelle, Robert W. Series connected D.C. supply magnetic amplifier. 3,015,772, 1–2–62, Cl. 323—56.

Rochelle, Robert W., to United States of America, Navy. Five transistor bistable counter circuit. 3,042,810, 7–3–62, Cl. 307—88.5.

Rochester Button Co.: *See*—
Broderson, Neil O. 3,047,193.
Hendrickson, Roy H. 3,042,254.
McBean, Douglas M., and Tallman. 3,024,747.

Rochester Institute of Technology: *See*—
Hickman, Kenneth C. D. 3,034,700.

Rochester, Nathaniel: *See*—
Seibel, Robert, and Rochester. 3,022,878.

Rocheville, Charles F. Coupling for rotatable members. 3,058,429, 10–16–62, Cl. 105—161.

Rochling'Sche Eisen -und Stahlwerke G.m.b.H., and Still, Carl, Firma: *See*—
Hoffmann, Heinrich, Schmidt, and Thiersch. 3,058,891.

Rochlitz, Fritz: *See*—
Heuck, Claus, Rochlitz, Schmidt, Vilcsek, and Winter. 3,070,578.
Starck, Werner, Rochlitz, Vilcsek, and Winter. 3,058,935.

Rochus, Walter, and R. Kickuth, to Chemieglas, Gebr. Schricker oHG. Apparatus for the fractional separation of mixtures contained in a solution by freezing. 3,022,659, 2–27–62, Cl. 73—53.

Rock, Floyd G.: *See*—
Rock, George L. and F. G. 3,057,337.

Rock, George L. and F. G. Sling shot device. 3,057,337, 10–9–62, Cl. 124—20.

Rock, William A.: *See*—
Stewart, Robert A., and Rock. 3,052,555.

Rockafellow, Stuart C., to Robotron Corp. Sequential load switching utilizing discharge timing means. 3,019,393, 1–30–62, Cl. 328—130.

Rockafellow, Stuart C., to Robotron Corp. Switching circuit utilizing semi-conductor, controlled rectifiers. 3,058,010, 10–9–62, Cl. 307—88.5.

Rockafellow, Stuart C., and T. R. Thomsen, to Robotron Corp. Interlock system for assuring resistance welds of correct quality. 3,051,825, 8–28–62, Cl. 219—108.

Rockafield, Wilden A., and J. E. Brundage, to The Brundage Co. Hub structure for an impeller center plate and method for making same. 3,051,372, 8–28–62, Cl. 230—134.

Rocke, Emrick: *See*—
Clements, Walter J., and Rocke. 3,035,525.

Rockefeller, Gordon: *See*—
Connell, Thomas F., and Rockefeller. 3,068,544.

Rockerath, John L.: *See*—
Schreck, Harold J., and Rockerath. 3,016,028.
Schreck, Harold J., and Rockerath. 3,026,823.

Rockett, Charles W., L. N. Higgins, and V. E. Terp. Emergency indicator alarm. 3,047,857, 7–31–62, Cl. 343—6.5.

Rockett, Jack: *See*—
MacMullen, Clinton W., and Rockett. 3,032,578.

Rockhoff, Bert E.: *See*—
Deibas, Mark, Gruber, Repp, and Rockhoff. 3,049,198.

Rocklen Inc., Products Division: *See*—
Rocklen, William W. 3,054,391.

Rocklen, William W., to Rocklen Inc., Products Division. Condition indicator of an automotive cooling system. 3,054,391, 9–18–62, Cl. 123—41.15.

Rocklin, Albert L.: *See*—
Jaffe, Gunter S., Rocklin, and Van Winkle. 3,047,503.
Jaffe, Gunter S., Rocklin, and Van Winkle. 3,053,803.
Morris, Rupert C., and Rocklin. 3,030,428.

Rocklin, Albert L., to Shell Oil Co. Dialkylhydroxybenzyl sulfonate salts. 3,047,631, 7–31–62, Cl. 260—607.

Rocklin, Albert L., to Shell Oil Co. Preparation of esters. 3,052,715, 9–4–62, Cl. 260—488.

Rocklin, Albert L., to Shell Oil Co. Decolorization of cryptophenols by treatment with carbon dioxide. 3,052,728, 9–4–62, Cl. 260—619.

Rocklin, Albert L., to Shell Oil Co. Bisphenol preparation. 3,053,904, 9–11–62, Cl. 260—619.

Rocklin, Albert L., to Shell Oil Co. Rubbery polymer and process. 3,068,197, 12–11–62, Cl. 260—45.85.

Rocklin, Albert L., and J. L. Van Winkle, to Shell Oil Co. Substituted benzenes. 3,026,264, 3–20–62, Cl. 252—52.

Rockline Realty Corp.: *See*—
Cohen, Irwin, and Taub. 3,058,869.

Rockmore, Milton M. Shoe-fit checking device. 3,022,577, 2–27–62, Cl. 33—3.

Rockola, David C., to Rock-Ola Mfg. Corp. Automatic phonograph. 3,030,116, 4–17–62, Cl. 274—10.

Rockola, David C., to Rock-Ola Mfg. Corp. Automatic phonograph. 3,043,597, 7–10–62, Cl. 274—10.

Rock-Ola Mfg. Corp.: *See*—
Rockola, David C. 3,030,116.
Rockola, David C. 3,043,597.
Totten, John A. 3,033,422.

Rocks, Eugene S., to Sperry Rand Corp. Gyroscopic reference system. 3,052,129, 9–4–62, Cl. 74—5.34.
Rockstead, Joel B., to Midland-Ross Corp. Dual fuel control systems for engines burning diesel-type fuels. 3,022,425, 2–20–62, Cl. 290—40.
Rockstron, Leonard: *See*—
Aaron, Charles, and Rockstrom. 3,057,571.
Rockstrom, Leonard, and J. Pundyk, to Cameron Machine Co. Winding machine. 3,057,572, 10–9–62, Cl. 242—66.
Rocksvold, Alvin N.: *See*—
Marvin, Ralph T., and Rocksvold. 3,036,392.
Rockwell, Adelbert W., Jr., and E. F. Mitchell, to United Shoe Machinery Corp. Machines for shaping uppers over lasts. 3,022,527, 2–27–62, Cl. 12—8.5.
Rockwell, Dean M. Pressure relief valve for pressurized containers. 3,064,673, 11–20–62, Cl. 137—494.
Rockwell, Edward A. Rotary fluid displacement device and mechanism therefor. 3,021,791, 2–20–62, Cl. 103—126.
Rockwell, Edward A. Brake construction. 3,047,097, 7–31–62, Cl. 188—72.
Rockwell G.m.b.H.: *See*—
Biefang, Ernst. 3,046,899.
Seyffer, Max. 3,039,723.
Rockwell Mfg. Co.: *See*—
Berends, Emerson R., and Deghuee. 3,021,879.
Born, Lester R., Jr. 3,055,236.
Farrell, Thomas C. 3,054,419.
Jauson, Paul C. 3,034,704.
Manor, Paul A. 3,030,067.
Marsh, Walter H. 3,038,312.
Matheson, Edmund E., and Wolfensperger. 3,056,573.
McGay, John B., and Stoops. 3,065,594.
Ott, Clyde E. 3,062,284.
Pettigrew, David D., and Niehaus. 3,068,723.
Pommersheim, Joseph A. 3,042,064.
Ramsden, William E. 3,060,741.
Rittenhouse, Howard E. 3,068,844.
Ruck, George W., and Wheelbarger. 3,024,987.
Thomas, Herbert G., Cornish, Shenkle, and Last. 3,045,-486.
Warrick, Edward C., Holtz, and Kmetz. 3,064,487.
Wolfensperger, Adolph. 3,042,066.
Rockwell Register Corp.: *See*—
McGay, John B., and Clift. 3,034,535.
Rockwell, Robert G., to Varian Associates. Low noise electron discharge device. 3,065,374, 11–20–62, Cl. 315—5.34.
Rockwell, Ronald J., to Crosley Broadcasting Corp. A.M. bridge modulator. 3,050,697, 8–21–62, Cl. 332—47.
Rockwell-Standard Corp.: *See*—
Bixby, Leo A. 3,042,145.
Bixby, Leo A. 3,046,813.
Boughner, Lawrence G. 3,049,928.
Cox, Frank T., Jr., and Thornton. 3,037,584.
Hallam, William A. 3,053,527.
Hammond, Milton B., and Bowman. 3,064,337.
Hampson, John C. 3,057,380.
House, Bryan E., and Cumming. 3,057,439.
House, Bryan E., and Mathews. 3,053,347.
James, Jimmie. 3,037,736.
Mather, Glenn E. 3,017,171.
Mathews, George P., and Shunkwiler. 3,050,156.
Pits, Kennard, and Herider. 3,066,979.
Scheel, Walther F. 3,037,818.
Schou, Carl E. 3,023,640.
Schou, Carl E. 3,049,038.
Stiebel, Ariel I., and Rigby. 3,047,116.
Williams, William J., and Cox. 3,068,964.
Rockwood, Charles H., to Cook Electric Co. Reflective radar target. 3,039,093, 6–12–62, Cl. 343—18.
Rockwood & Co.: *See*—
Emrick, Lloyd D. 3,058,571.
Hazen, Gretzolon L., and Theilig. 3,056,553.
Rockwool Aktiebolaget: *See*—
Anderberg, Bo I., and Kjell-Berger. 3,032,836.
Rod, Robert L., to Acoustica Associates, Inc. Combustion control system. 3,066,482, 12–4–62, Cl. 60—35.6.
Rodak, Joseph J., to Ford Motor Co. Dynamoelectric machine. 3,021,442, 2–13–62, Cl. 310—60.
Rodale Electronics, Inc.: *See*—
Smith, Donald F., and Lester. 3,016,488.
Rodale Mfg. Co., Inc.: *See*—
Schuler, Jacob, and Timmins. 3,034,084.
Rodbard, Simon. Phonocardiographic method and apparatus. 3,048,166, 8–7–62, Cl. 128—2.06.
Rodda, Thomas A.: *See*—
Magos, John P., Bredtschneider, Cotterman, Black, and Rodda. 3,053,554.
Rodda, Thomas A., to Crane Co. Actuating mechanism for imparting rotary motion through a pressure vessel. 3,033,-046, 5–8–62, Cl. 74—18.1.
Roddick, Douglas G., and L. B. Scott, to Shell Oil Co. Gasoline composition. 3,052,528, 9–4–62, Cl. 44—56.
Roddy, John J.: *See*—
Multer, Howard, and Roddy. 3,023,016.
Rode, Ludwig, to Hauni-Werke Korber & Co., K.G. Apparatus for packing cigarettes. 3,044,370, 7–17–62, Cl. 93—49.
Rodeffer, Elmer O. Material and method for coloring Portland cement concretes. 3,068,109, 12–11–62, Cl. 106—98.
Roden, George B.: *See*—
Larson, Ernest D., and Roden. 3,058,590.
Rodenacker, Wolf, to Bayer Aktiengesellschaft, Farbenfabriken. Worm-device. 3,031,030, 4–24–62, Cl. 55—190.
Rodenbaugh, Richard P.: *See*—
Beasley, Thomas J., Jr., and Rodenbaugh. 3,064,306.
Roder, Hans-Erich, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Welding electrode for welding shaped articles of thermoplastic material. 3,057,-988, 10–9–62, Cl. 219—19.
Roder, Josef, and F. Stoff, to Carl Schenck Maschinenfabrik G.m.b.H. Material handling vibrating machine. 3,053,-379, 9–11–62, Cl. 198—220.
Rodewald, Bernhard: *See*—
Finkener, Friedrich, Krug, Loges, and Rodewald. 3,022,-161.
Rodger, James, to Apra Precipitator Corp. Electrodes and shields. 3,046,716, 7–31–62, Cl. 55—152.
Rodger, Walton A.: *See*—
Vogel, Richard C., and Rodger. 3,031,261.
Rodgers, Edward A. Hosiery supporter. 3,018,536, 1–30–62, Cl. 24—243.
Rodgers, Elbert A. Flow control method for wells and apparatus therefor. 3,045,751, 7–24–62, Cl. 166—54.
Rodgers, Frank J. Hose for portable pneumatic equipment. 3,021,871, 2–20–62, Cl. 138—118.
Rodgers, Franklin A.: *See*—
Koda, Nobuo J., Smith, Corderman, and Rodgers. Re. 25,221.
Rodgers, George H., to Marco Industries Co. Glow discharge light assembly with resistor. 3,017,594, 1–16–62, Cl. 338—219.
Rodgers, George H., to Marco Industries. Low-voltage transistorized electric light flasher circuit for barricade lights, etc. 3,018,473, 1–23–62, Cl. 340—331.
Rodgers Hydraulic Inc.: *See*—
Rodgers, John L., Jr., and Quarve. 3,040,378.
Rodgers, John L., Jr., and Quarve. 3,053,961.
Rodgers, Jack P. Rubber band shooting figure. 3,041,780, 7–3–62, Cl. 46—118.
Rodgers, James M.: *See*—
Kinsler, Robert C., and Rodgers. 3,055,909.
Rodgers, John, to Marconi's Wireless Telegraph Co. Ltd. Pulse radar systems. 3,029,429, 4–10–62, Cl. 343—16.
Rodgers, John A., and W. E. Taylor, Jr., to Eastman Kodak Co. Motion picture projector for television. 3,025,753, 3–20–62, Cl. 88—18.4.
Rodgers, John L.: *See*—
Coleman, Ralph A., and Rodgers. 3,042,624.
Rodgers, John L., Jr., and V. K. Quarve, to Rodgers Hydraulic, Inc. Automatic transfer and compression plastic molding press. 3,040,376, 6–26–62, Cl. 18—17.
Rodgers, John L., Jr., and V. K. Quarve, to Rodgers Hydraulic Inc. Dielectric material heating and delivery mechanism. 3,053,961, 9–11–62, Cl. 219—10.69.
Rodgers, John T., ⅓ to G. Gordon and ⅓ to G. D. Webb. Inflatable curved mirror. 3,054,328, 9–18–62, Cl. 88—73.
Rodgers, Nelson E.: *See*—
Henika, Richard G., and Rodgers. 3,053,666.
Rodgers, Robert E., to Stant Mfg. Co., Inc. Radiator cap with safety gasket. 3,053,408, 9–11–62, Cl. 230—44.
Rodgers, Samuel M., Jr.: *See*—
Callan, Clayton D., and Rodgers. 3,047,560.
Rodgers, Thomas E., to Northrop Corp. Optical device having light filtering means. 3,039,349, 6–19–62, Cl. 88—1.
Rodgers, William, to Engineering Research and Application Ltd. Carburettors. 3,054,603, 9–18–62, Cl. 261—50.
Rodi & Wienenberger Aktiengesellschaft: *See*—
Knoop, Hendrikus. 3,036,425.
Kunzmann, Ludwig. 3,066,475.
Mannella, Ercole. 3,063,238.
Rodin, Max B., and N. C. Carter, to United States of America, Atomic Energy Commission. Reactor having NaK-UO_2 slurry helically positioned in a graphite moderator. 3,034,-978, 5–15–62, Cl. 204—193.2.
Rodis, Franz: *See*—
Thomas, Friedrich, Rodis, and Hinz. 3,067,857.
Rodis, Franz, G. Hartlapp, and K. Beltz, to Knapsack-Griesheim Aktiengesellschaft. Process for producing an alkali phosphate from an aqueous ortho-phosphate. 3,023,083, 2–27–62, Cl. 23—107.
Rodis, Franz, and A. Hinz, to Knapsack-Griesheim Aktiengesellschaft. Process and device for the manufacture of granules having a definite grain-size. 3,035,301, 5–22–62, Cl. 18—1.
Rodish, John, to Diamond National Corp. Carton compressing and packaging machine. 3,017,730, 1–23–62, Cl. 53—124.
Rodish, John, to The Mead Corp. Lever lock for split clamping rings. 3,070,397, 12–25–62, Cl. 292—256.69.
Rodmaker, Gerald M.: *See*—
Spalding, Joseph H., Rodmaker, and Wedding. 3,065,-333.
Rodman, Clarence J. Detachable bathtub apron. 3,028,603, 4–10–62, Cl. 4—173.
Rodman, Clarke A., to Fram Corp. Air conditioner filters having germicidal properties. 3,017,239, 1–16–62, Cl. 21—58.
Rodman, Frank A., and J. R. Ermlich, to Libbey-Owens-Ford Glass Co. Inspection device for glass sheets. 3,025,749, 3–20–62, Cl. 88—14.
Rodman, Harold L.: *See*—
Bernstein, Malcolm E., and Rodman. 3,038,120.
Rodman, Hugh, and H. Rodman, Jr. Quenching oils. 3,027,-315, 3–27–62, Cl. 208—14.

Rodman, Hugh, Jr.: *See*—
Rodman, Hugh, and H. Rodman, Jr. 3,027,315.
Rodman, Hugh, Jr., to Koppers Co., Inc. Process and apparatus for the pre-expansion of vinyl polymeric materials. 3,023,175, 2–27–62, Cl. 260—2.5.
Rodman, Sherwin B., to Telecomputing Corp. Variable width pulse generating means. 3,029,390, 4–10–62, Cl. 328—55.
Rodnert, Gustav O.: *See*—
Nilsson, Nils E., Björk, and Rodnert. 3,045,067.
Nilsson, Nils E., Rodnert, and Bjork. 3,065,305.
Rodoz, Sylvio, to Societe Miniere et Metallurgique de Penarroya. Flotation with mechanical agitation. 3,067,-988, 12–11–62, Cl. 261—29.
Rodrigo, Miguel. Furniture door. 3,055,724, 9–25–62, Cl. 312—319.
Rodrigue, Wilbrod G. Memo select. 3,046,932, 7–31–62, Cl. 116—135.
Rodrigues, Lionel: *See*—
Catalfano, Frank P., and Rodrigues. 3,054,126.
Rodriguez, Cipriano, to Micro Metalizing Corp. Apparatus for the evaporation plating or coating of articles. 3,028,-835, 4–10–62, Cl. 118—500.
Rodriguez, Emiliano: *See*—
De la Vega Falcon, Jose R., and Rodriguez. 3,051,611.
Rodriguez, Joseph M.: *See*—
Hallden, Frederick C., and Rodriguez. 3,045,913.
Rodriguez, Leonarda. Combination undergarments. 3,068,-488, 12–18–62, Cl. 2—212.
Rodriguez, Manuel G. Egg carton with reinforcing and advertising means. 3,018,936, 1–30–62, Cl. 229—1.5.
Rodriquez, Carlos O.: *See*—
Trachta, Joseph E., and Rodriquez. 3,016,143.
Rodriquez, Joseph M., and W. C. Chase. Check book. 3,048,-426, 8–7–62, Cl. 282—23.
Rods, Inc.: *See*—
Von Planck, Gordon L. 3,031,750.
Rodth, Joseph J., to The Dane Corp. Beverage dispensing apparatus. 3,042,265, 7–3–62, Cl. 222—146.
Rodth, Joseph J., F. J. Price, Jr., and W. E. Dexter, to The Dane Corp. Beverage dispensing apparatus and method. 3,045,869, 7–24–62, Cl. 222—39.
Rodway, John, to Automotive Products Co. Ltd. Hydraulic brake mechanisms. 3,068,652, 12–18–62, Cl. 60—54.6.
Rodwell, William, to United Kingdom Atomic Energy Authority. Nuclear reactor moderator structures. 3,022,239, 2–20–62, Cl. 204—193.2.
Rodwick, Frank P., to The Proctor-Silex Corp. Food slicer-shredder. 3,032,087, 5–1–62, Cl. 146—125.
Roe, A. V., Canada Ltd.: *See*—
Frost, John C. M. 3,051,414.
Frost, John C. M. 3,062,482.
Roe, A. V., & Co., Ltd.: *See*—
Rowley, Geoffrey C. 3,017,093.
Roe, Charles A. and R. R. Trailer light support. 3,059,105, 10–16–62, Cl. 240—8.3.
Roe, Charles C.: *See*—
Isgren, Elmer E., and Roe. 3,024,378.
Roe, Charles C., to LeTourneau-Westinghouse Co. Torque transmitting device. 3,020,739, 2–13–62, Cl. 64—27.
Roe, Chriss. Snow runners for vehicle wheels. 3,070,383, 12–25–62, Cl. 280—13.
Roe, John H., to Radio Corp. of America. Television optical system. 3,046,334, 7–24–62, Cl. 178—7.2.
Roe, Marshall H.: *See*—
Campbell, James B., Roe, and Wheelock. 3,027,120.
Roe, Richard C., and O. W. Robbins, to Schnadig Corp. Retractable footrest. 3,031.230, 4–24–62, Cl. 297—432.
Roe, Robert R.: *See*—
Roe, Charles A. and R. R. 3,059,105.
Roeber, Henry W.: *See*—
Crosby, Alton L., and Roeber. 3,016,124.
Roeber, Henry W., to Sylvania Electric Products Inc. Grid transfer mechanism. 3,032,208. 5–1–62, Cl. 214—1.
Roebuck, Alan K.: *See*—
Evering, Bernard L., and Roebuck. 3,032,508.
Evering, Bernard L., and Roebuck. 3,067,228.
Roebuck, Albert H.: *See*—
Phansalkar, Achyut K., Roebuck, and Scott. 3,046,222.
Roebuck, Albert H., and J. B. Scott, to Continental Oil Co. Low fluid loss composition. 3,042,612, 7–3–62, Cl. 252—8.55.
Roeck, Eugene C.: *See*—
Less, Frank W., Searer, and Roeck. 3,020,254.
Roecker, Earl E., to Bethlehem Steel Co. Clamping assembly. 3,062,573, 11–6–62, Cl. 287—103.
Roedel, Milton J., to E. I. du Pont de Nemours and Co. Ethylene polymer laminated structures. 3,055,784, 9–25–62, Cl. 154—50.
Roeder, Harold E. Pneumatic fireman's tool for breaking glass blocks and other wall building materials. 3,048,161, 8–7–62, Cl. 125—40.
Roeder, John, Jr.: *See*—
Phillips, Benjamin A., Roeder, and Kruggel. 3,063,257.
Roehl, Edward J., E. B. Michel, and J. Kalla, to Pittsburgh Steel Co. Method of making clad steel. 3,034,211, 5–15–62, Cl. 29—492.
Roehl, Ernest R.: *See*—
Hovda, Robert E., Goode, and Roehl. 3,062,955.
Roehm, Jack M.: *See*—
Heinsman, William G., Roehm, and Wille. 3,039,764.
Roehr, Zbislaw M., to Brunswick Corp. Needle with plastic hub. 3,029,815, 4–17–62, Cl. 128—221.
Roehrbein, Philip A., to American Can Co. Attitude changing device. 3,061,071, 10–30–62, Cl. 198—33.
Roehrig, John A. Vehicle helper and stabilizing spring. 3,028,156, 4–3–62, Cl. 267—28.
Roehrig, John A. Dripless saucer. 3,037,660, 6–5–62, Cl. 220—22.83.
Roehrig, John A. Vehicle leaf spring suspension. 3,062,526, 11–6–62, Cl. 267—48.
Roehrig, Jonathan R., and J. C. Simons, Jr., to National Research Corp. Metal analysis apparatus. 3,065,060, 11–20–62, Cl. 23—253.
Roehrs, Robert J.: *See*—
Hedley, William H., Roehrs, and Henderson. 3,041,136.
Roelen, Otto: *See*—
Beck, Kurt, and Roelen. 3,026,570.
Büchner, Karl, Roelen, Meis, and Langwald. 3,043,871.
Goethel, Herbert, Jacob, Kolling, and Roelen. 3,024,208.
Roelofs, Henry M.: *See*—
Bernick, Leslie M., and Roelofs. 3,047,420.
Roelofs, Henry M., to Inland Steel Co. Method of treating ferrous metal base for vitreous enameling and coated metal base produced. 3,041,201, 6–26–62, Cl. 117—70.
Roemelt, Willard F.: *See*—
Berstein, Gregor, and Roemelt. 3,065,093.
Roemer, Theodore J., to Olin Mathieson Chemical Corp. Composite propellent grains. 3,046,829, 7–31–62, Cl. 86—1.
Roensch, Arthur P.: *See*—
Forster, Carl F., and Roensch. 3,064,291.
Roepke, Edward C. Particle selecting and dispensing device. 3,022,755, 2–27–62, Cl. 111—77.
Roerty, Dennis F., to Westinghouse Electric Corp. Recorder with helical ink tube. 3,026,165, 3–20–62, Cl. 346—140.
Roesch, Ernst, to Super Mold Corp. of California. Tire mounting and spinning device. 3,067,789, 12–11–62, Cl. 144—288.
Roesch, Ernst, to Super Mold Corp. of California. Tread builder. 3,030,261, 4–17–62, Cl. 156—411.
Roeser, Gerald F., to Martin-Marietta Corp. Organic solvent coating solutions containing a polyepoxide and a butyl methacrylate polymer. 3,070,564, 12–25–62, Cl. 260—33.6.
Roeser, Gerald P., and H. J. Bach, to American Marietta Co., Stoner-Mudge Co. Division. Tripolymer primer for vinyl resin dispersions and steel coated with a film thereof. 3,016,309, 1–9–62, Cl. 117—75.
Roeser, John O. High precision nutating device. 3,029,648, 4–17–62, Cl. 74—18.1.
Roeser, John O. Switch. 3,030,465, 4–17–62, Cl. 200—67.
Roeser, John O., to Illinois Tool Works, Inc. Snap switch. 3,043,928, 7–10–62, Cl. 200—67.
Roesler, Daniel P. Lawn mower. 3,054,247, 9–18–62, Cl. 56—26.
Roesler, Walter. Apparatus for the manufacture of electrically welded wire nets 3,063,476, 11–13–62, Cl. 140—112.
Roessing, Lothar, to North American Philips Co., Inc. Electric dry shaver head with changeable cutting heads of varying sharpness. 3,069,772, 12–25–62, Cl. 30—43.
Roessler, Karl G.: *See*—
Schoellig, Alfred, Roessler, and Krallmann. 3,036,876.
Roethlisberger, Robert H.: *See*—
Huff, Joseph F., and Roethlisberger. 3,040,279.
Roetter, Robert P., to Libbey-Owens-Ford Glass Co. Apparatus for gauging the curvature of sheet material. 3,050,-985, 8–28–62, Cl. 73—37.8.
Roetter, Robert P., and N. O. Falk, to Libbey-Owens-Ford Glass Co. Method and apparatus for inspecting multiple sheet glazing units. 3,064,135, 11–13–62, Cl. 250—218.
Roffelsen, Franciscus. Filling and mixing apparatus for powdered and granular material. 3,027,049, 3–27–62, Cl. 222—41.
Roffman, Gerald J.: *See*—
Galvin, Francis E., and Roffman. 3,069,005.
Rofusa, V.: *See*—
Reimers, Hinrich. 3,061,450.
Rogal, Edward, to Universal Controls, Inc. Tag reading product and apparatus. 3,059,112, 10–16–62, Cl. 250—71.
Rogal, Edward, to Universal Controls, Inc. Information storage and transfer structure. 3,061,819, 10–30–62, Cl. 340—173.
Rogalla, Gerald J. Roof platforms and carriers. 3,058,542, 10–16–62, Cl. 182—45.
Rogant, Humbert R., to James Campbell Smith, Inc. Fork lift truck. 3,027,961, 4–3–62, Cl. 180—77.
Rogers, A. C., Jr., to Boeing Airplane Co. Fuel system for foldable aircraft wings. 3,039,721, 6–19–62, Cl. 244—135.
Rogers, Allen S., and H. Purre, to Phillips Petroleum Co. Recovery of hydrocarbons by in situ combustion. 3,024,-013, 3–6–62, Cl. 262—3.
Rogers, Argel A. and L. B. Piston mounting means. 3,069,-210, 12–18–62, Cl. 309—19.
Rogers, Arthur O.: *See*—
Coker, James N., Fields, and Rogers. 3,061,611.
Rogers, Arthur O., to E. I. du Pont de Nemours and Co. Method for converting N-chloro-ε-caprolactam to α-chloro-ε-caprolactam. 3,045,009, 7–17–62, Cl. 260—239.3.
Rogers, Arthur O., to E. I. du Pont de Nemours and Co. Glucoheptosaminic acid and derivatives thereof and their preparation. 3,068,260, 12–11–62, Cl. 260—429.
Rogers, Carroll J. Adjustable dipole antenna. 3,052,883, 9–4–62, Cl. 343—802.
Rogers Corp.: *See*—
Anderson, Paul L., and Zagusta. 3,052,823.
Yarrison, Walter W. 3,067,469.

Rogers, Cyril B. : *See*—
Johnson, Glen R., and Rogers. 3,040,914.
Rogers, Cyril B., and K. H. Mindrum, to Clark Equipment Co. Deflection beam construction. 3,070,190, 12–25–62, Cl. 187—95.
Rogers, Donald G. : *See*—
Robinson, Preston, and Rogers. 3,070,522.
Rogers, Dow A., Jr., to Westinghouse Electric Corp. Polymerizable resinous composition comprising an unsaturated polyester and a mixture of ethylenically unsaturated monomers copolymerizable therewith, electrical member impregnated therewith, and method of preparing same. 3,054,770, 9–18–62, Cl. 260—45.4.
Rogers, Dow A., Jr., and R. J. Hillen, to Westinghouse Electric Corp. Composite mica insulation and electrical conductors insulated therewith. 3,026,222, 3–20–62, Cl. 154—2.6.
Rogers, Dow A., Jr., J. L. Schake, and H. F. Minter, to Westinghouse Electric Corp. Sealant compositions and commutator sealed therewith. 3,036,023, 5–22–62, Cl. 260—2.5.
Rogers, Edward F. : *See*—
Clark, Robert L., and Rogers. 3,060,183.
Clark, Robert L., and Rogers. 3,060,184.
Shen, Tsung Y., Rogers, and Sarett. 3,031,452.
Rogers, Edward F., and L. H. Sarett, to Merck & Co., Inc. 1-(2-alkyl-4-amino-5-pyrimidinylmethyl) - alkyl - pyridinium quaternary salts for treating coccidiosis. 3,020,200, 2–6–62, Cl. 167—53.1.
Rogers, Edward F., and L. H. Sarett, to Merck & Co., Inc. 1-(2-n-propyl-4-amino-5-pyrimidyl-methyl)-2(or 4) - methyl pyridinium salts. 3,020,277, 2–6–62, Cl. 260—256.4.
Rogers, Edward F., and R. L. Clark, to Merck & Co., Inc. Imidazolium quaternary salts and methods of preparing same. 3,030,364, 4–17–62, Cl. 260—256.4.
Rogers, Edward F., and R. L. Clark, to Merck & Co., Inc. (Pyrimidylmethyl) diazinium quaternary salts. 3,030,365, 4–17–62, Cl. 260—256.4.
Rogers, Edward F., and R. L. Clark, to Merck & Co., Inc. 1-methyl-5-nitroimidazole for enterohepatitis. 3,037,909, 6–5–62, Cl. 167—53.1.
Rogers, Edward F., and R. L. Clark, to Merck & Co., Inc. Imidazolium quaternary salts and methods of preparing same. 3,042,675, 7–3–62, Cl. 260—256.4.
Rogers, Edward F., and L. H. Sarett, to Merck & Co., Inc. Pyridinium quaternary salts and methods of preparing the same. 3,042,676, 7–3–62, Cl. 260—256.4.
Rogers, Edward F., and A. A. Pessolano, to Merck & Co., Inc. Thiazolium quaternary salts and methods of preparing same. 3,042,677, 7–3–62, Cl. 260—256.5.
Rogers, Edward F., and L. H. Sarett, to Merck & Co., Inc. 1-(2-methyl-4-amino-5-pyrimidylmethyl)-lower alkyl pyridinium quaternary salts for treating coccidiosis. 3,065,132, 11–20–62, Cl. 167—53.1.
Rogers, Elsie V. : *See*—
Rogers, Russell H. 3,056,681.
Rogers, Emery H. : *See*—
Kane, Ralph W., Nelson, and Rogers. 3,017,544.
Rogers, Eugene E., and E. R. Maskulka, 20% to C. S. Spaw. Trigger lock fitting on a trigger guard. 3,066,433, 12–4–62, Cl. 42—70.
Rogers, Ezra S., and R. J. Scott, to J. C. Hockery. Wall-type power-operated can opener. 3,018,548, 1–30–62, Cl. 30—4.
Rogers, Francis R. : *See*—
Carmon, Richard L., and Rogers. 3,034,570.
Rogers, Francis R., to The Bendix Corp. Fuel control apparatus for a combustion engine. 3,050,941, 8–28–62, Cl. 60—39.28.
Rogers, George A. Earth-moving equipment. 3,061,123, 10–30–62, Cl. 214—145.
Rogers, George L. : *See*—
Rhoades, John M., and Rogers. 3,035,216.
Rogers, Gerald L., to Stile-Craft Manufacturers, Inc. Coupling assembly. 3,036,595, 5–29–62, Cl. 137—596.
Rogers, Gordon F., to Radio Corp. of America. Oscillation generator and mixer. 3,064,206, 11–13–62, Cl. 331—164.
Rogers, Harry F. Expandable pipe mandrel. 3,048,416, 8–7–62, Cl. 279—2.
Rogers, Herbert G. Refrigeration and air conditioning apparatus. 3,055,187, 9–25–62, Cl. 62—238.
Rogers, Howard G. : *See*—
Blout, Elkan R., Green, Rogers, Simon, and Woodward. 3,019,107.
Green, Milton, and Rogers. 3,043,690.
Haas, Howard C., and Rogers. 3,043,692.
Rogers, Howard G., to Polaroid Corp. Novel photographic color processes and products. 3,015,561, 1–2–62, Cl. 96—29.
Rogers, Howard G., to Polaroid Corp. Multicolor photosensitive film and process of making the same. 3,019,124, 1–30–62, Cl. 117—8.
Rogers, Howard G., to Polaroid Corp. Process for incorporating photographic reagents in a photographic element using a common solvent and a preferential solvent. 3,061,453, 10–30–62, Cl. 117—34.
Rogers, Howard G., to Polaroid Corp. 1,4-benzoquinone oxidizing agents for color transfer processes. 3,065,074, 11–20–62, Cl. 96—29.
Rogers, Howard G., and H. W. Lutes, to Polaroid Corp. Photographic color processes and compositions. 3,039,869, 6–19–62, Cl. 96—3.
Rogers, James A. : *See*—
Verduin, Peter J., and Rogers. 3,030,638.
Rogers, James G., to Hughes Aircraft Co. Relay binary counter. 3,025,433, 3–13–62, Cl. 317—140.
Rogers, Jesse L. Duplicating machines. 3,019,726, 2–6–62, Cl. 101—132.
Rogers, Jesse L., and F. E. Armstrong. Duplicating machines. 3,060,847, 10–30–62, Cl. 101—132.5.
Rogers, Jimmie O. : *See*—
Whiting, James A., and Rogers. 3,039,218.
Rogers, Joe Y., Jr., and J. M. Brown, to Cabot Corp. Channel-type carbon black process. 3,039,853, 6–19–62, Cl. 23—209.8.
Rogers, John C., to Crown Stove Works. Stove construction. 3,059,632, 10–23–62, Cl. 126—37.
Rogers, John V., to Laboratory For Electronics, Inc. Signal analyzing circuits. 3,034,048, 5–8–62, Cl. 324—68.
Rogers, Joseph, Inc. : *See*—
Thompson, Josephus B. 3,030,847.
Thompson, Josephus B., and Whitenack. 3,059,948.
Rogers, Kenneth H. : *See*—
Roberson, Robert E., Rogers, and Martin. 3,048,108.
Rogers, Lester B. : *See*—
Rogers, Argel A. and L. B. 3,069,210.
Rogers, Le Roy W. Table and luggage carrier combinations. 3,057,669, 10–9–62, Cl. 311—3.
Rogers, Louis J., to Union Carbide Corp. Chromatographic programmer. 3,068,685, 12–18–62, Cl. 73—23.
Rogers, Louis J., and M. D. Weiss, to Union Carbide Corp. Peak signal summation system. 3,026,502, 3–20–62, Cl. 340—187.
Rogers, Mathilda M. : *See*—
Daley, Dorothy M. 3,025,969.
Rogers, Morris R., A. M. Kaplan, and G. Cohen, to United States of America, Army. Composition for preserving feathers. 3,067,094, 12–4–62, Cl. 167—31.
Rogers, Murray H., to Spotnails, Inc. Safety mechanism for pneumatic fastener driving machines. 3,056,965, 10–9–62, Cl. 1—106.
Rogers, Nathan B. Adjustable eyeglass hinge. 3,060,804, 10–30–62, Cl. 88—53.
Rogers, Raymond R., to The Bendix Corp. Segmented heat shield for wheels. 3,051,528, 8–28–62, Cl. 301—6.
Rogers, Reginald, to The British Thomson-Houston Co. Coil winding machine. 3,040,998, 6–26–62, Cl. 242—1.1.
Rogers, Richard S. Automatic depository. 3,021,050, 2–13–62, Cl. 232—43.1.
Rogers, Robert E., to General Electric Co. Vibration mount for compressors and the like. 3,030,056, 4–17–62, Cl. 248—20.
Rogers, Robert H., and R. C. Carter, to Collins Radio Co. Corrected squelch circuit and amplifier. 3,050,652, 8–21–62, Cl. 307—88.5.
Rogers, Robert N., to F. V. Campbell. Can fabricating mechanism. 3,039,413, 6–19–62, Cl. 113—42.
Rogers, Russell H., deceased; E. V. Rogers, executrix. Process of manufacturing dehydrated powdered cheese. 3,056,681, 10–2–62, Cl. 99—116.
Rogers, Russell H., and J. D. Opem, to Swift & Co. Wire drawing compositions and processes of making the same. 3,047,496, 7–31–62, Cl. 252—18.
Rogers, Sedgwick C., to Kimberly-Clark Corp. Plastic surface plywood article and method for making the same. 3,028,285, 4–3–62, Cl. 154—45.9.
Rogers, Sedgwick C., to Kimberly-Clark Corp. Cellulosic product. 3,046,171, 7–24–62, Cl. 154—45.9.
Rogers, Sherman A. : *See*—
Hughes, and Rogers. 3,042,325.
Rogers, Thelmer A. Truck body support. 3,064,988, 11–20–62, Cl. 280—5.
Rogers, Thomas E., to Jacques Wolf & Co. Production of zinc hydrosulfite crystals. 3,048,477, 8–7–62, Cl. 23—300.
Rogers, Thomas H., Jr., and D. W. Peabody, to The Goodyear Tire & Rubber Co. Treatment of polyurethan foams. 3,061,885, 11–6–62, Cl. 18—48.
Rogers, Walter F., to Gulf Oil Corp. Process for the treatment of drilling muds. 3,039,545, 6–19–62, Cl. 175—66.
Rogers, William A., Jr., J. E. Woehst, and R. M. Smith, to The Dow Chemical Co. Preparation of cyclic sulfites. 3,022,315, 2–20–62, Cl. 260—327.
Rogers, William B., Jr., to Fabreeka Products Co. Vibration absorbing pad. 3,026,224, 3–20–62, Cl. 154—44.
Rogers, William C. Aircraft antenna lead-through insulator unit. 3,059,047, 10–16–62, Cl. 174—153.
Rogers, William I., and W. M. Whaley, to General Foods Corp. Inclusion compounds incorporating edible juice constituents. 3,061,444, 10–30–62, Cl. 99—140.
Rogers, William J., to General Electric Co. Fuel nozzle for gas turbine engine. 3,032,990, 5–8–62, Cl. 60—39.74.
Rogerson, Roy H. : *See*—
Feathers, Robert E., and Rogerson. 3,040,109.
Roggenburk, Earl G. Air driven rotary motor. 3,054,389, 9–18–62, Cl. 121—84.
Roggenstein, Edwin O. : *See*—
Blain, Albert, Welsh, Wilson, Meyer, and Roggenstein. 3,037,606.
Roggenstein, Edwin O., to Sperry Rand Corp. Typewriter ribbon guard and mounting. 3,047,121, 7–31–62, Cl. 197—160.
Roggero, Rinaldo : *See*—
Kleemann, Alois, and Roggero. 3,034,907.
Roggon, Robert, to North American Philips Co., Inc. Combination of a fixed capacitor and a trimmer capacitor. 3,067,369, 12–4–62, Cl. 317—248.

Rogier, Clarence F., to Johnson Fare Box Co. Card retriever. 3,064,810, 11–20–62, Cl. 209—111.5.
Rogier, Edgar R.: *See*—
Wheeler, Donald H., and Rogier. 3,016,359.
Rogier, Edgar R., to General Mills, Inc. Amino-polyamide resin and reaction product thereof with an epoxy resin. 3,062,773, 11–6–62, Cl. 260—42.
Rogin, Milton: *See*—
Howell, Thomas B., and Rogin. 3,025,756.
Rogner, Ernst, to SKF Kugellagerfabriken G.m.b.H. Device for supporting and guiding belts of drafting assemblies. 3,050,789, 8–28–62, Cl. 19—252.
Rogoff, Julian, to Burndy Corp. Electrical connector. 3,052,867, 9–4–62, Cl. 339—217.
Rogoff, Mortimer, to International Telephone and Telegraph Corp. Phase measuring device. 3,020,478, 2–6–62, Cl. 324—83.
Rogovin, Arthur: *See*—
Gardei, Robert, and Rogovin. 3,016,652.
Rogovin, S. Peter: *See*—
Benedict, Robert G., Jeanes, Wickerham, and Rogovin. 3,021,323.
Rogowski, Frank J. Safety face mask. 3,015,105, 1–2–62, Cl. 2—9.
Rohde, Robert P., to General Motors Corp. Van pump. 3,057,304, 10–9–62, Cl. 103—126.
Rohde, Robert P., to General Motors Corp. Filter for fluid pressure transmission device or the like. 3,070,032, 12–25–62, Cl. 103—220.
Rohdin, Howard A. Means for molding heat seals. 3,032,454, 5–1–62, Cl. 156—581.
Rohe, Frederick W. Moldable insert panel and method of assembly. 3,016,578, 1–16–62, Cl. 18—59.
Rohe, Frederick W. Floating molded insert. 3,019,865, 2–6–62, Cl. 189—34.
Rohe, Frederick W. Expandible spacer. 3,042,156, 7–3–62, Cl. 189—34.
Rohland, Werner: *See*—
Eisele, Julius, Federkiel, Schuster, Gehm, Tartter, Graser, Rohland, and Stoeckl. 3,037,030.
Rohm, Fredric G., to Avco Corp. Air induction system for an internal combustion engine. 3,015,322, 1–2–62, Cl. 123—32.
Rohm, Gunter H. Revolver with mounting means for the bearing pin of the cylinder. 3,054,207, 9–18–62, Cl. 42—62.
Rohm, Gunter H. Live center. 3,057,236, 10–9–62, Cl. 82—33.
Rohm & Haas Co.: *See*—
Bauer, La Verne N. 3,052,648.
Bauer, La Verne N. 3,067,163.
Bockstahler, Theodore E. 3,042,650.
Bortnick, Newman M. 3,021,338.
Bortnick, Newman M. 3,037,052.
Bortnick, Newman M., and Fegley. 3,065,237.
Bortnick, Newman M., and Gantert. 3,028,412.
Bortnick, Newman M., and Gantert. 3,028,414.
Brown, George L., Harren, Kine, and Wormser. 3,033,811.
Bryan, William L. 3,062,379.
Buechler, Peter R., and Kine. 3,048,496.
Carman, Everett F. 3,037,955.
Carr, Charles A., Jr., and Kelley. 3,050,425.
Clemens, David H., and Simmons. 3,059,027.
Coe, Beresford. 3,050,412.
Cook, Richard S. 3,029,256.
Cunningham, William J. 3,050,785.
De Benneville, Peter L., and Blessing. 3,064,035.
De Benneville, Peter L., and Steele. 3,024,080.
Dupre, Jean, and Wolf. 3,021,372.
Edanowski, Richard E., and Toy. 3,061,564.
Emmons, William D., and Wadsworth. 3,068,060.
Feely, Wayne E. 3,046,278.
Feely, Wayne E. 3,061,520.
Fordyce, David B., Glavis, and Melamed. 3,023,162.
Forsyth, George E. 3,051,679.
Fuson, Reynold C., and Vittimberga. 3,031,506.
Glavis, Frank J. 3,029,228.
Glavis, Frank J. 3,035,004.
Glavis, Frank J. 3,035,085.
Goode, William E. 3,032,542.
Hankins, Elinor M., and Emmons. 3,037,006.
Hankins, Elinor M., and Emmons. 3,037,969.
Harren, Richard E., and Runowicz. 3,026,281.
Hetherington, Richard. 3,038,610.
Hurwitz, Marvin J. 3,043,792.
Hurwitz, Melvin D. 3,043,718.
Jordan, Arthur D., Jr., and Toy. 3,037,952.
Kantner, George C., and Hurwitz. 3,046,075.
Lo, Chien-Pen. 3,050,526.
McKeever, Charles H. 3,026,362.
McRae, Dougal H., and Wampler. 3,065,066.
Miller, Edgard W., and Toy. 3,048,501.
Moser, Vincent J., and Kine. 3,015,595.
Nemec, Joseph W., and McKeever. 3,057,903.
Nemec, Joseph W., and Schechter. 3,050,439.
Nemec, Joseph W., and Schechter. 3,050,552.
Niederhauser, Warren D. 3,050,521.
Niederhauser, Warren D. 3,054,813.
Nuessle, Albert C., and Knoeker. 3,025,181.
O'Brien, Joseph L. 3,028,367.
O'Brien, Joseph L., and Lane. 3,030,347.
O'Brien, Joseph L., and Lane. 3,042,686.
Rohm & Haas Co.: *See*—Continued
Richter, George A., Jr., McBurney, and Kine. 3,055,729.
Robinson, Stephen B., Jr., and Bibolet. 3,055,730.
Rowland, Stanley P., and White. 3,051,672.
Schneider, Henry J. 3,032,593.
Schneider, Henry J. 3,050,563.
Schneider, Henry J. 3,061,648.
Schneider, Henry J. 3,062,892.
Shachat, Norman. 3,036,089.
Shaw, Robert S., and Hopkins. 3,024,207.
Sims, Homer J. 3,015,671.
Sims, Homer J. 3,022,292.
Sims, Homer J. 3,036,066.
Smythe, Carl V., Neubeck, and Robbins. 3,033,691.
Stevens, Travis E. 3,025,224.
Stevens, Travis E. 3,038,938.
Stevens, Travis E. 3,068,299.
Sweeney, Edward J., Toy, and McLaughlin. 3,020,178.
Tessmar, Klaus, and Kollinsky. 3,041,305.
Van Hook, John O. 3,046,284.
Van Hook, John O. 3,054,765.
Van Hook, John O. 3,054,766.
Wadsworth, William S., Jr., and Emmons. 3,033,887.
Wadsworth, William S., Jr., and Emmons. 3,033,888.
Wadsworth, William S., Jr., and Emmons. 3,038,001.
Wadsworth, William S. 3,047,606.
Wilson, Harold F. 3,052,707.
Zdanowski, Richard E., Toy, Larsson, and Kine. 3,061,563.
Rohm & Haas G.m.b.H.: *See*—
Benz, Rudi O., and Koch. 3,057,803.
Bortnick, Newman M. 3,017,425.
Götz, Franz, and G. and H. Will. 3,027,336.
Hosch, Ludwig J. 3,030,327.
Koch, Ernst, Kollinsky, and Ludwig. 3,058,913.
Krebs, Josef. 3,029,192.
Lo, Chien-Pen, and Orsage. 3,017,416.
McLaughlin, Paul J., and Toy. 3,017,291.
Rauch, Harald K., Tessmar, and Volker. 3,033,782.
Rosenthal, Isadore, and McLaughlin. 3,017,290.
Tessmar, Klaus. 3,018,265.
Völker, Theodor, and Wenzel. 3,070,509.
Zima, Herbert. 3,018,176.
Zima, Herbert. 3,022,145.
Zima, Herbert. 3,031,265.
Zima, Herbert. 3,032,582.
Rohmann, Henry G. Jewelry washer. 3,066,687, 12–4–62, Cl. 134—148.
Rohn, Ivan D. Apparatus for assembling cross braces on a multi-leg tower. 3,021,885, 2–20–62, Cl. 153—1.
Rohn, Johann P., to Russ-Elektroofen K.G. Multichamber smelting furnace. 3,043,895, 7–10–62, Cl. 13—27.
Rohn Mfg. Co.: *See*—
Turner, Benjamin R. 3,020,985.
Rohner, Ernst, to Pretema A.G. Method for duplicating the dye of an original on a dye carrier. 3,042,476, 7–3–62, Cl. 8—23.
Rohnke, Heinz: *See*—
Otten, Alfred, Evertz, and Rohnke. 3,052,080.
Rohowetz, Stanley E.: *See*—
Coles, Harold W., and Rohowetz. 3,061,483.
Rohr Aircraft Corp.: *See*—
Herbert, Thomas A., Jr. 3,032,150.
Herbert, Thomas A., Jr. 3,033,973.
Lacey, Elbert M., Jr. 3,021,803.
Maynard, Kermit W. 3,021,887.
Raynes, Burt F. 3,030,692.
Rush, Hugh M. 3,069,766.
Rohr, Wilhelm H.: *See*—
Bruderlein, Johannes E., and Rohr. 3,035,699.
Rohrbach, Christof, to Vibro-Meter A.G. Device for establishing an electrical connection between stationary and rotating conductors. 3,022,479, 2–20–62, Cl. 339—8.
Rohrbacher, Earl W., to General Motors Corp. Valve rocker mounting. 3,064,635, 11–20–62, Cl. 123—90.8.
Rohrberg, Paul W., to The New York Air Brake Co. Variable displacement pump. 3,020,847, 2–13–62, Cl. 103—37.
Rohrberg, Roderick G., and E. S. Boyd, to North American Aviation, Inc. Brazed joint and fabrication method. 3,032,870, 5–8–62, Cl. 29—479.
Rohrer, John A.: *See*—
Bartolucci, Leo M., and Rohrer. 3,038,171.
Rohsmann, Felix. Engine or machine with at least one rotating piston running in an annular cylinder space. 3,057,544, 10–9–62, Cl. 230—156.
Roizen, Joseph, and R. F. Pfost, to Ampex Corp. Video recording and/or reproducing apparatus and method. 3,037,073, 5–29–62, Cl. 178—6.6.
Rojprasit, Adisaun. Amplifier. 3,060,264, 10–23–62, Cl. 179—1.
Rokos, Leo J., to A. K. R. Long. Round mouthed shovel. 3,020,077, 2–6–62, Cl. 294—49.
Rokosz, Henry J.: *See*—
Lindner, William L., and Rokosz. 3,021,179.
Roksvaag, Lars. Cutting machine having rotatable pivotal shearing means. 3,069,952, 12–25–62, Cl. 83—310.
Rokunohe, Mitsuru, Z. Yoshida, H. Miyamoto, S. Mizuno, and T. Oketani, to Nippon Telegraph & Telephone Public Corp. Method of manufacturing bubble insulated wire. 3,068,126, 12–11–62, Cl. 117—232.
Rola Co. (Australia) Proprietary Ltd.: *See*—
Levi, Fulvio. 3,029,496.

Roland, Charles T.: *See*—
Hronas, John J., and Roland. 3,045,872.
Roland, Georges E. R.: *See*—
Granet, Charles, Roland, and Crauc. 3,017,197.
Roland, John R.: *See*—
McKusick, Blaine C., and Roland. 3,026,326.
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Roland, John R., to American Seal-Kap Corp. Sliding door mounting. 3,059,289, 10–23–62, Cl. 20—23.
Roland Offsetmaschinenfabrik Faber & Schleicher A.G.: *See*—
Campbell, Harold E., Coffey, and Connolly. 3,065,961.
Koch, Werner. 3,020,840.
Koch, Werner, and Preuss. 3,054,346.
Roley, Robert N., to Goodman Mfg. Co. Troughing idler assembly for flexible strand conveyor. 3,055,487, 9–25–62, Cl. 198—192.
Rolf, Erich, to Siemens-Schuckertwerke Aktiengesellschaft. Laminated cores for transformers and reactors. 3,015,791, 1–2–62, Cl. 336—217.
Rolfe, Charles A., to International Paper Co. Doorway closure. 3,022,818, 2–27–62, Cl. 160—206.
Rolfe, Herbert E., Jr., to Evans Products Co. Automobile shipping device. 3,023,711, 3–6–62, Cl. 5—368.
Rolfe, John B.: *See*—
Hale, John D., and Rolfe. 3,031,021.
Rolfson, Francis B., to Shell Oil Co. Fractional boiling point recycling. 3,049,607, 8–21–62, Cl. 73—17.
Rolih, Robert J., and E. K. Fields, to Standard Oil Co. Phosphonic acid esters and preparation thereof. 3,054,821, 9–18–62, Cl. 260—461.
Rolin, Kenneth C.: *See*—
Heiss, Frederick H., Rolin, and Baudhuin. 3,066,830.
Rolingson, William R., to Monsanto Chemical Co. Production of ammonium thiocyanate. 3,036,883, 5–29–62, Cl. 23—75.
Rolinson, George N.: *See*—
Doyle, Frank P., Nayler, and Rolinson. 3,025,290.
Doyle, Frank P., Nayler, and Rolinson. 3,040,032.
Doyle, Frank P., Nayler, and Rolinson. 3,047,467.
Rolite, Inc.: *See*—
Hagenson, Leo J. 3,024,059.
Roll, Walter M.: *See*—
Forth, Murray W., Roll, and Jenkins. 3,052,192.
Rollat, Germain, to Societe Genevoise d'Instruments de Physique. Machine-tool or measuring machine. 3,041,895, 7–3–62, Cl. 77—4.
Roller, Albert E., to General Motors Corp. Universal joint. 3,022,649, 2–27–62, Cl. 64—8.
Roller, Albert E., to General Motors Corp. Vibration damping and shock absorbing resilient engine mounting. 3,052,-435, 9–4–62, Cl. 248—8.
Roller, Donald C.: *See*—
Heidt, William A., and Roller. 3,022,879.
Roller, Elmer A., to H. K. Porter Co., Inc. Motor control circuits. 3,044,001, 7–10–62, Cl. 318—221.
Roller, Gaylord G., and G. V. Lewis, to American Truck Washing and Detergent Co. Truck washing apparatus. 3,024,-795, 3–13–62, Cl. 134—99.
Rollform, Inc.: *See*—
Bak, Joseph. 3,023,861.
Rollins, Henry M.: *See*—
Moore, Stanley C., Rollins, and Bachman. 3,063,759.
Rollins, James E.: *See*—
Rakowski, Alexander J., Rollins, and Zenobia. 3,016,506.
Rollins, James E., to Specialties Development Corp. Multiple resistance characteristic semi-conductor elements. 3,068,-438, 12–11–62, Cl. 338—22.
Rollins, James E., A. J. Rakowski, and J. C. Zenobia, Jr., to Specialties Development Corp. Semi-conductive element. 3,024,435, 3–6–62, Cl. 338—20.
Rollins, Lester G., to Joy Mfg. Co. Universal pivoted link chain. 3,019,665, 2–6–62, Cl. 74—246.
Rollmann, Kent W.: *See*—
Kraus, Gerard, and Rollmann. 3,021,226.
Roll-O-Sheets, Inc.: *See*—
Andrews, Mark B., and Burke. 3,045,883.
Rolls-Royce Ltd.: *See*—
Basford, Kenneth A., and Bottoms. 3,056,454.
Bowmer, Thomas. 3,045,965.
Bracey, Kenneth E. G., and Petrie. 3,049,880.
Carlisle, Denis R. 3,039,701.
Colley, Rowan H. 3,019,599.
Colley, Rowan H. 3,022,629.
Davies, David O. 3,031,132.
Davies, David O., and Cantwell. 3,062,005.
Davies, David O., and Grint. 3,041,834.
Emblem, Harold G., Mountford, and Morley. 3,051,669.
Fletcher, Arthur H. 3,068,646.
Goodall, Donald G., Hatton, and Roberts. 3,067,578.
Goodall, Donald G., and Lepers. 3,049,878.
Griffith, Alan A. 3,056,565.
Griffith, Alan A. 3,069,548.
Griffith, Alan A. 3,070,326.
Griffith, Alan A., Lees, Shaw, and Willmer. 3,047,256.
Hall, Eric T., and Leonard. 3,051,827.
Haworth, Lionel, Basford, Smith, and Bottoms. 3,067,-628.
Hayes, John T. 3,054,051.
Hilton, Kenneth D. 3,051,439.
Hulley, Richard W., and Griffiths. 3,056,014.
Jubb, Albert, and Johnson. 3,056,259.
Keen, John M. S. 3,024,599.
Rolls-Royce Ltd.: *See*—Continued
Keen, John M. S. 3,025,666.
Keen, John M. S. 3,048,975.
Keen, John M. S., and Colley. 3,034,296.
Keenan, John G., and Craigie. 3,057,542.
Kent, Nelson H., and Eccles. 3,039,178.
Kent, Nelson H., and Eccles. 3,044,153.
Kent, Nelson H., and Steel. 3,051,436.
Kerry, Thomas H. 3,031,155.
Kerry, Thomas H. 3,055,615.
Kerry, Thomas H. 3,057,582.
Kerry, Thomas H., and Taylor. 3,030,051.
Kerry, Thomas H., Ward, and Taylor. 3,059,878.
Lefebvre, Arthur H., and Halls. 3,055,179.
Lefebvre, Arthur H., Rice, and Tindale. 3,043,101.
Lombard, Adrian A., and Wilkinson. 3,065,818.
Miller, Kenneth. 3,057,158.
Morley, Frederick W. W. 3,024,604.
Morley, Frederick W. W. 3,050,939.
Morley, Frederick W. W., Davies, and Grint. 3,024,624.
Morley, Frederick W. W., and Keen. 3,060,681.
Morley, Frederick W. W., Kent, Hunter, and Wilkinson. 3,051,437.
Mountford, Norman D. G., and Morley. 3,042,982.
Murray, Frederick R. 3,019,605.
Oldfield, Thomas A. 3,070,285.
Payne, Nigel E., and Sheldon. 3,024,968.
Petrie, James A., and Bracey. 3,042,167.
Roberts, Derek A., and Page. 3,051,438.
Rubbra, Arthur A. 3,031,128.
Shelley, Thomas. 3,053,504.
Sherlaw, William, and Leheup. 3,057,154.
Smith, Alfred J., and Chaloff. 3,030,053.
Stark, Frank H. 3,044,745.
Taylor, Maurice I. 3,037,723.
Taylor, Maurice I. 3,043,538.
Thomas, Samuel D., and Taylor. 3,041,830.
Ward, Peter A. 3,064,419.
Whitehead, Eric J. 3,054,693.
Wigg, Raymond E., and Battle. 3,051,497.
Wilde, Geoffrey L., and Howell. 3,024,967.
Wilde, Geoffrey L., and Mortlock. 3,033,493.
Wilde, Geoffrey L., Newton, and Fitzgerald. 3,060,680.
Wiles, William F., and Evans. 3,042,342.
Rollwitz, William L., to Corn Industries Research Foundation, Inc. Second-harmonic moisture meter for continuous flow. 3,045,175, 7–17–62, Cl. 324—.5.
Rolo Mfg. Co.: *See*—
Boren, William M., Franklin, and Oliphant. 3,027,763.
Franklin, Robert K., Boren, Oliphant, and Crossman. 3,023,618.
Rolston, Kenneth P. Hose coupling. 3,032,358, 5–1–62, Cl. 285—247.
Rom, Rudolph A.: *See*—
Briskin, Theodore S., Moore, and Rom. 3,027,666.
Briskin, Theodore S., Moore, and Rom. 3,059,741.
Briskin, Theodore S., Moore, and Rom. 3,063,610.
Romak, Albert. Device for straightening wheel assembly elements. 3,065,780, 11–27–62, Cl. 153—32.
Roman, Daniel R., and T. A. Faulli, to Monsanto Chemical Co. Stable alkaline silica sols containing certain dialdehydes. 3,046,234, 7–24–62, Cl. 252—313.
Roman, Donald B. Stabilizing of peg board hangers. 3,037,-732, 6–5–62, Cl. 248—223.
Roman, Donald B. Stabilized peg-board hanger. 3,037,733, 6–5–62, Cl. 248—225.
Roman, Robert J., to Eastman Kodak Co. Pressure roller mechanism. 3,029,992, 4–17–62, Cl. 226—180.
Roman, Robert J., to Eastman Kodak Co. Drive mechanism. 3,062,063, 11–6–62, Cl. 74—202.
Roman, Sam, to United States of America, Navy. Dual advanced warning and cutout switch. 3,029,709, 4–17–62, Cl. 89—134.
Roman, Walter G.: *See*—
Slack, Charles M., and Roman. 3,058,897.
Slack, Charles M., Roman, Krasik, and Purcell. 3,039,-945.
Romanek, Bernard T. Utility chest. 3,029,117, 4–10–62, Cl. 312—200.
Romanek, Bernard T. Portable power appliances. 3,054,231, 9–18–62, Cl. 51—166.
Romanelli, Pat: *See*—
Miller, Charles, and Romanelli. 3,062,276.
Romano, Frank A., Jr., to General Electric Co. Electrode assembly support. 3,062,982, 11–6–62, Cl. 313—292.
Romano, Sam S., to Webcor, Inc. Binaural volume tuner. 3,036,158, 5–22–62, Cl. 179—1.
Romanoff, Harold: *See*—
Lenardon, Nelson, and Romanoff. 3,019,815.
Romans, Gleason. Method of detecting pipe line leaks. 3,032,655, 5–1–62, Cl. 250—43.5.
Romanski, Lon H.: *See*—
Kerr, Fred S., and Romanski. 3,021,449.
Romanski, Lon H., to Holley Carburetor Co. Automatic automobile safety door lock. 3,029,892, 4–17–62, Cl. 180—82.
Romanzi, Louis, Jr.: *See*—
King, Edward J., and Romanzi. 3,020,040.
Romberg, Edgar B., to North American Aviation, Inc. Magnetic drive. 3,070,024, 12–25–62, Cl. 103—53.
Romberg, Francis M., to Socony Mobil Oil Co., Inc. Delayed initiation of seismic wave generation. 3,039,558, 6–19–62, Cl. 181—.5.

Rome Cable Corp. : *See*—
Bernhardt, Otto. 3,044,907.
Heaton, George L., and Vaughan. 3,030,226.
Steele, Maurice G., 3,015,165.
Rome, Martin, and H. O. W. Jordan, to The Machlett Laboratories, Inc. Cathode ray tubes. 3,047,758, 7–31–62, Cl. 313—76.
Romens, Carroll F., and G. A. Krall. Lightweight fitting cleaning machines. 3,067,443, 12–11–62, Cl. 15—21.
Romeo, John. Copter kite. 3,022,967, 2–27–62, Cl. 244—154.
Romeo, Nicholas. Combination fertilizer spreader and lawn marker. 3,019,470, 2–6–62, Cl. 15—503.
Römer, Hermann O., to Ludwig Römer K.G., Fa. Bark removing machine having a peeling knife. 3,037,537, 6–5–62, Cl. 144—208.
Römer, Ludwig, K.G., Fa. : *See*—
Römer, Hermann O. 3,037,537.
Romero, Adolph. Electric writing board. 3,019,425, 1–30–62, Cl. 340—334.
Romero, Cesar L. Automatic symbol reproducing device. 3,023,670, 3–6–62, Cl. 88—28.
Romero, Fred. Three line chalk box. 3,046,663, 7–31–62, Cl. 33—87.
Romero, Victor R., to Union Steel Products Co. Receptacle drainers. 3,032,203, 5–1–62, Cl. 211—41.
Romiguiere, Claude E. G., to Compagnie Francaise Thomson-Houston. Signal processing arrangement. 3,038,132, 6–5–62, Cl. 333—13.
Romine, Glenn N. : *See*—
Sylvester, Rowland L., and Romine. 3,038,613.
Romine, James W., to The Greening Nursery Co. Tree wrapping machine. 3,055,153, 9–25–62, Cl. 53—124.
Romine, Roy T. : *See*—
Smith, Jack C., Etterman, and Romine. 3,063,564.
Roming, Charles, Jr., to Esso Research and Engineering Co. Process for removing metal contaminants from organic mixtures. 3,055,942, 9–25–62, Cl. 260—604.
Roming, Charles, Jr., to Esso Research and Engineering Co. Process for producing carboxylic acids. 3,068,256, 12–11–62, Cl. 260—413.
Romm, Leopold S. Hair dryer. 3,058,231, 10–16–62, Cl. 34—90.
Romm, Cy. Continuous automatic die cutting machine. 3,024,688, 3–13–62, Cl. 83—155.
Romnel, Paul J. Mixing device. 3,063,685, 11–13–62, Cl. 259—135.
Romney, Russell H. : *See*—
Nelson, Kay F., Romney, and Slifka. 3,029,321.
Romo, Jesus : *See*—
Djerassi, Carl, Rosenkranz, Kaufmann, Pataki, and Romo. 3,020,294.
Rona, Emil, Collector-free compounded synchronous generator. 3,031,607, 4–24–62, Cl. 322—25.
Rona, Ladislao. Artificial fur or the like. 3,042,991, 7–10–62, Cl. 28—79.
Ronan, Harold R. : *See*—
Crozier, Theodore R., Ronan, and Van Acker. 3,062,343.
Rönbeck, Arne I., to Separator, Aktiebolaget. Apparatus for manufacture of tube-type radiators. 3,067,994, 12–11–62, Cl. 269—43.
Roncari, Albert J. : *See*—
Kean, George W. 3,067,510.
Roncari, Angelo J. : *See*—
Kean, George W. 3,067,510.
Roncari, Raymond A. : *See*—
Kean, George W. 3,067,510.
Ronci, Fernando M. Reinforced composite heel and removable tap. 3,048,932, 8–14–62, Cl. 36—34.
Ronci, Fernando M. Reinforced heel and tap. 3,050,877, 8–28–62, Cl. 36—34.
Ronci, Fernando M. Reinforced heel and replaceable plastic tap. 3,055,125, 9–25–62, Cl. 36—34.
Ronci, John J. Magnet with vibratable armature. 3,062,-926, 11–6–62, Cl. 179—115.
Roncken, Hubertus W. H. M. : *See*—
Sanders, Theodorus P. W., and Roncken. 3,016,298.
Ronco, Karl, to Ciba Ltd. New dioxazine dyestuffs and process for their manufacture. 3,065,229, 11–20–62, Cl. 260—246.
Rondeau, Herbert F., to American Meter Co., Inc. Leak tester. 3,028,750, 4–10–62. Cl. 73—49.2.
Rondeau, Herbert F., and L. B. Weaver, to American Meter Co., Inc. Remote meter reading system. 3,069,670, 12–18–62, Cl. 340—188.
Rondestvedt, Christian S., Jr. : *See*—
Coyner, Eugene C., Dishart, and Rondestvedt. 3,038,947.
Rondthaler, Edward. Money converter. 3,023,956, 3–6–62, Cl. 235—89.
Roney, Richard N., to The Sheffield Corp. Machine tool. 3,015,914, 1–9–62, Cl. 51—56.
Roney, Richard N., to The Sheffield Corp. Machine component. 3,015,961, 1–9–62, Cl. 74—1.
Roney, Richard N., to The Sheffield Corp. Ultrasonic machine. 3,027,690, 4–3–62, Cl. 51—59.
Rongved, Leif, to Bell Telephone Laboratories, Inc. High pressure seals for lead-in conductors. 3,017,452, 1–16–62, Cl. 174—152.
Ronk, George T. Deep well pump and valve. 3,044,403, 7–17–62, Cl. 103—40.
Ronk, Leroy B., to System Analyzer Corp. Electrical switch. 3,032,627, 5–1–62, Cl. 200—87.
Ronka, Vaino. Electromagnetic prospecting apparatus. 3,042,857, 7–3–62, Cl. 324—4.
Ronney, William L., and R. Zargarpur, to Stewart-Warner Corp. Eddy current instrument. 3,066,541, 12–4–62, Cl. 73—520.
Ronning, Adolph. Multi-compensating wheel suspension. 3,049,361, 8–14–62, Cl. 280—124.
Ronson Corp. : *See*—
Goddard, John A. 3,050,973.
Schnapp, James. 3,068,568.
Smith, James D. 3,055,201.
Ronson Corp. of Delaware : *See*—
Freedman, Lawrence I., and Tone. 3,027,585.
Freedman, Lawrence I., and Tone. 3,057,364.
Ronson Hydraulic Units Corp. : *See*—
Mohler, William F., and Aberbom. 3,032,951.
Ronzio, Anthony R., to Morco Oil Corp. Charcoal briquet and method for production of same. 3,068,080, 12–11–62, Cl. 44—17.
Roof, Harold F. Building block structures and components. 3,061,979, 11–6–62, Cl. 50—389.
Roof, Robert A., to Continental Can Co., Inc. Bag testing machine. 3,039,299, 6–19–62, Cl. 73—96.
Rooker, William A. Fruit sauce process. 3,019,112, 1–30–62, Cl. 99—154.
Rooker, William A. Fruit sauces. 3,019,113, 1–30–62, Cl. 99—186.
Rookus, James E., 5% to E. H. Daverman. Film projector. 3,018,933, 1–30–62, Cl. 226—76.
Rooney, Michael : *See*—
Arms, Henry S., Wolff, and Rooney. 3,070,533.
Rooney, Robert E. Device for controlling electrical power demand. 3,066,227, 11–27–62, Cl. 307—34.
Rooney, William A. Disposable ash tray packet. 3,017,063, 1–16–62, Cl. 229—1.5.
Roop, Clifford E. : *See*—
Kraus, Karl J. 3,050,443.
Roop, Donald E. : *See*—
Baum, Joseph V., and Roop. 3,059,465.
Roop, Robert W. : *See*—
Cleveland, Albert L., Jr., and Roop. 3,024,429.
Roop, Robert W., to General Atronics Corp. Monitoring device. 3,045,221, 7–17–62, Cl. 340—213.
Roos, Ernst : *See*—
Lober, Friedrich, Roos, and Kempermann. 3,022,275.
Roos, Jacob F., and A. Smith, to Coty, Inc. Face powder containers. 3,048,316, 8–7–62, Cl. 229—5.5.
Roos, Wallace A. : *See*—
Davis, James E., and Roos. 3,017,946.
Roosa, Vernon D. Filter assembly. 3,056,503, 10–2–62, Cl. 210—254.
Roosa, Vernon D. Fuel pump. 3,057,299, 10–9–62, Cl. 103—2.
Rooseboom, Auguste : *See*—
Uytenbogaart, Johannes W. H. 3,055,362.
Roosen, Petrus H., to Goudsche, N.V. Probing apparatus. 3,054,285, 9–18–62, Cl. 73—84.
Roosen, Richard : *See*—
Hany, Harald, Roosen, and Spehr. 3,051,089.
Root, A. I., Co., The : *See*—
Root, Alan I. 3,048,025.
Root, Alan I., to The A. I. Root Co. Candle burners. 3,048,-025, 8–7–62, Cl. 67—21.
Root, Andrew A., to American Optical Co. Flexible pyroscopes. 3,051,035, 8–28–62, Cl. 88—1.
Root, Andrew A., to American Optical Co. Apparatus and method for making foamed plastic containers. 3,069,725, 12–25–62, Cl. 18—20.
Root, Andrew A., and J. O. Martin. Means for packaging articles. 3,038,593, 6–12–62, Cl. 206—5.
Root, Elihu, III, to R. E. Dietz Co. Transistor oscillator circuit. 3,046,494, 7–24–62, Cl. 331—111.
Root, Fred A. Swivel rope connector. 3,036,351, 5–29–62, Cl. 24—123.
Root, George R., to Root Mfg. Co., Inc. Wheel adjustment for lawn mowers. 3,038,736, 6–12–62, Cl. 280—43.17.
Root, James E., III : *See*—
Canney, George E., Overly, Root, and Pennington. 3,059,708.
Root, James R. : *See*—
Postlewait, James H., Garnett, and Root. 3,068,632.
Root-Lowell Mfg. Co. : *See*—
Hauser, Philip L. 3,045,388.
Root Mfg. Co., Inc. : *See*—
Root, George R. 3,038,736.
Root, Mitchell S. Process for preserving yellow peppers. 3,017,277, 1–16–62, Cl. 99—156.
Root, Phillip O., and W. F. Chaple, to Black, Sivalls & Bryson, Inc. Separation device. 3,030,754, 4–24–62, Cl. 55—320.
Root, Richard C. : *See*—
Artman, Robert A., Root, and Turner. 3,017,115.
Roots, Edward J. : *See*—
Barber, Harry A., Burns, and Roots. 3,016,632.
Roovers, Wilhelmus A. : *See*—
Nijhuis, Herman C., and Roovers. 3,024,299.
Nijhuis, Herman C., and Roovers. 3,058,209.
Roper, Alec N. : *See*—
Cleland, William J., Henshall, Roper, Waring, and Seijo. 3,052,664.
Seijo, Ernest, and Roper. 3,068,191.
Roper, Charles G., to Dictaphone Corp. Belt record drive mechanism. 3,029,657, 4–17–62, Cl. 74—241.

Roper, Daniel W. : *See*—
Oldberg, Sidney, and Roper, 3,055,473.

Roper, Geo. D., Corp. : *See*—
Hillebrand, Earl D., 3,049,116.
Hillebrand, Earl D., and Reeves, 3,034,419.
Reeves, Herbert M., 3,035,567.
Small, George E., and Fulmer, 3,016,198.

Roper Hydraulics, Inc. : *See*—
Mosbacher, Bruce H., 3,016,121.
Mosbacher, Bruce H., 3,045,778.

Roper, Robert, to Jersey Production Research Co. Secondary recovery using a water flooding technique. 3,025,237, 3–13–62, Cl. 252—8.55.

Roper, Robert, and P. L. Stright, to Jersey Production Research Co. Secondary recovery using a water flooding technique. 3,070,158, 12–25–62, Cl. 166—9.

Ropp, Richard C., to Sylvania Electric Products Inc. Process for preparation of titanium activated barium pyrophosphate phosphor. 3,067,145, 12–4–62, Cl. 252—301.4.

Ropp, walter S., to Hercules Powder Co. Process for rendering a cross-linked carbon black-containing polyethylene extrudable and resulting product. 3,036,981, 5–29–62, Cl. 260—41.

Ropp, Walter S., to Hercules Powder Co. Compositions containing bis(3-methoxypropylidene) pentaerythritol. 3,042,-630, 7–3–62, Cl. 260—2.

Roppel, Clarence L. Convertible hitch apparatus for plural trailing units. 3,064,996, 11–20–62, Cl. 280—412.

Roquemore, William K. : *See*—
Andrews, Jack M., Corneil, Peet, and Roquemore. Re. 25,220.

Rorem, Edward S., and J. C. Lewis, to United States of America, Agriculture. Means for detecting galactose. 3,066,081, 11–27–62, Cl. 195—103.5.

Rorig, Kurt J. : *See*—
Kalm, Max J., and Rorig. 3,025,293.
Lovell, Calvin, and Rorig. 3,025,302.

Rorig, Kurt J., to G. D. Searle & Co. Dialkylaminoethyl piperazinepropionates and process. 3,015,659, 1–2–62, Cl. 260—268.

Rorig, Kurt J., to G. D. Searle & Co. Benzopiperidinoalkylimides. 3,015,662, 1–2–62, Cl. 260—287.

Rorig, Kurt J., to G. D. Searle & Co. 4-diphenyl(methyl/hydroxymethyl) spiropiperidines and process. 3,019,228, 1–30–62, Cl. 260—293.

Rorig, Kurt J., to G. D. Searle & Co. 1-alkyl-3-(α-phenyl-4-pyridylmethyl) ureas and thioureas. 3,028,391, 4–3–62, Cl. 260—294.8.

Rorig, Kurt J., to G. D. Searle & Co. ω-phenyl-4-pyridinealkyl alkoxycarbanilates. 3,029,246, 4–10–62, Cl. 260—295.

Rorig, Kurt J., to G. D. Searle & Co. Dialkylaminooxapentyl carbanilates. 3,036,115, 5–22–62, Cl. 260—472.

Rorig, Kurt J., to G. D. Searle & Co. Dialkylaminoethyl diphenylmethylpiperidinepropionates. 3,045,023, 7–17–62, Cl. 260—294.3.

Rorig, Kurt J., to G. D. Searle & Co. N-[chloro/nitro/amino) phenylalkyl]-α,α diphenylpiperidinemethanols. 3,068,327, 12–11–62, Cl. 260—294.7.

Rorig, Kurt J., and P. Yonan, to G. D. Searle & Co. N-[2,3-bis(2-oxyphenyl) alkyl] amic acids and esters. 3,062,861, 11–6–62, Cl. 260—471.

Rork, Wallace G., and J. I. Garner, to United States of America, Air Force. Angular accelerometer calibrator. 3,048,-997, 8–14–62, Cl. 73—1.

Rosa, John, to Westinghouse Electric Corp. Magnetic amplifier. 3,020,468, 2–6–62, Cl. 323—89.

Rosa, Richard J., to United States of America, Navy. Spectrograph. 3,015,250, 1–2–62, Cl. 88—14.

Rosaen Filter Co., The : *See*—
Rosaen, Oscar E. and N. O. 3,053,389.

Rosaen, Nils O. : *See*—
Rosaen, Oscar E. and N. O. 3,053,389.

Rosaen, Oscar E. and N. O., to The Rosaen Filter Co. Oil filters. 3,053,389, 9–11–62, Cl. 210—90.

Rosahl, Dietrich : *See*—
Heinz, Anton R., Rosahl, Graulich, and Esser. 3,050,509.

Rosahl, Dietrich, W. Graulich, H. Holzrichter, and P. J. Hermann, to Bayer Aktiengesellschaft Farbenfabriken. Production of stable polychloroprene. 3,054,192, 9–18–62, Cl. 24—4.

Rosahl, Otto, to The Babcock & Wilcox Co. Cyclone furnace. 3,052,221, 9–4–62, Cl. 122—235.

Rosamilia, Peter L. : *See*—
Harvey, Mortimer T., and Rosamilia. 3,016,092.

Rosamilia, Peter L., to Minnesota Mining and Mfg. Co. Composition comprising butyl rubber, a phenol, trioxane and a metal halide, vulcanizate obtained therefrom, and process for preparing same. 3,028,358, 4–3–62, Cl. 260—43.

Rosan Engineering Corp. : *See*—
Rosan, Jose. 3,039,641.
Rosan, Jose. 3,054,436.

Rosan, Jose, to Rosan Engineering Corp. Valve-type insert. 3,039,641, 6–19–62, Cl. 217—113.

Rosan, Jose, to Rosan Engineering Corp. Insert and screw locked by single split lock ring. 3,054,436, 9–18–62, Cl. 151—36.

Rosanes, Jacob. Method of reproducing hollow four-sided tapering beams or columns from sheet metal. 3,039,414, 6–19–62, Cl. 113—116.

Rosanoff, Richard A., and L. S. Thomas. Friction gripping device. 3,015,142, 1–2–62, Cl. 24—263.

Rosapepe, Frank P., to Universal Control, Inc. Rotary-counter register. 3,022,938, 2–27–62, Cl. 235—42.

Rosapepe, Frank P., to Universal Controls, Inc. Toll collection boxes. 3,070,293, 12–25–62, Cl. 235—33.

Rosario, Angel. Radio cabinet having a hinged and slidable shutter for controlling the volume. 3,020,400, 2–6–62, Cl. 250—16.

Rosati, Amato F. : *See*—
Laquerre, Jules L., and Rosati. 3,048,249.

Rosati, Mario, to Lagumarsino F.A.I. Repeat storing device for computing machines. 3,069,077, 12–18–62, Cl. 235—60.

Rosati, Robert E. : *See*—
Seaward, Edward T., and Rosati. 3,044,264.

Rosback, F. P., Co. : *See*—
Glendening, Major. 3,052,146.

Rosbe, David J. : *See*—
Miller, Teddy, Anderson, and Rosbe. 3,015,302.
Miller, Teddy, Anderson, and Rosbe. 3,019,938.

Roscelli, Gertrude A., to National Industrial Products Co. Starch product. 3,036,936, 5–29–62, Cl. 127—71.

Roscia, Francis C., Jr., to The Chapman Valve Mfg. Co. Valve apparatus. 3,052,446, 9–4–62, Cl. 251—327.

Rosch, Georg : *See*—
Wolf, Walther, Rosch, Degener, Klappert, and Petersen. 3,058,991.

Rösch, Georg, H. Klappert, and K.-H. Gehringer, to Farbenfabriken Bayer Aktiengesellschaft. Process for the manufacture of dyestuffs. 3,063,779, 11–13–62, Cl. 8—1.

Rösch, Georg, H. Klappert, and K.-H. Gehringer, to Farbenfabriken Bayer Aktiengesellschaft. Tetra-aza porphine dyestuffs. 3,063,780, 11–13–62, Cl. 8—1.

Rösch, Walter : *See*—
Vögtlin, Karl, and Rösch. 3,016,278.

Roscoe, Joseph. Variable pitch propeller. 3,061,017, 10–30–62, Cl. 170—160.3.

Roscoe, Lawrence C. J., to Bell Telephone Laboratories, Inc. Sequential pulse generator employing two sequentially actuated monostable multivibrators. 3,067,343, 12–4–62, Cl. 307—88.5.

Roscoe, Samuel, to Hayeshaw Ltd. Process for making yarn of varying colour character. 3,035,404, 5–22–62, Cl. 57—156.

Rose, Alexander D., to Colorado Oil and Gas Corp. Maximum pointer instruments. 3,036,466, 5–29–62, Cl. 73—396.

Rose, Arnold S., and H. W. Bertram, to Radio Corp. of America. Method for making semiconductor devices. 3,054,174, 9–18–62, Cl. 29—470.

Rose Brothers (Gainsborough) Ltd. : *See*—
Kay, James A. 3,063,712.
Wordsworth, Ronald W. 3,032,211.

Rose, Charles F. P., to Bell Telephone Laboratories, Inc. Method for constructing a wave guide. 3,056,710, 10–2–62, Cl. 156—53.

Rose, Chester E. : *See*—
Ben-Ezra, Aaron, and Rose. 3,050,394.

Rose, Chester J., and N. W. Magyar, to Martin-Marietta Corp. Wing handling fixture and method of using. 3,032,332, 5–1–62, Cl. 269—41.

Rose, John, ½ to D. Baker. Water softener and treating system. 3,028,963, 4–10–62, Cl. 210—139.

Rose, Donald, ½ to R. D. Baker. Water softening apparatus and system. 3,044,626, 7–17–62, Cl. 210—103.

Rose, Donald, to Water Refining Co., Inc. Electrically operated time switch. 3,067,298, 12–4–62, Cl. 200—38.

Rose, Edward : *See*—
Bahr, George K., and Rose. 3,056,337.

Rose, Edward H. : *See*—
Poulin, Raymond J. 3,043,232.
Poulin, Raymond J. 3,043,234.

Rose, Francis L. : *See*—
Miller, George W., and Rose. 3,045,015.
Miller, George W., and Rose. 3,045,016.
Miller, George W., and Rose. 3,046,276.
Miller, George W., and Rose. 3,053,844.

Rose, Francis L., and J. A. Landry, to Imperial Chemical Industries Ltd. Diazomethyltriazine derivatives. 3,049,542, 8–14–62, Cl. 260—248.

Rose, Fred G., to American Seating Co. Decorative side panel accessory for a chair. 3,048,441, 8–7–62, Cl. 297—463.

Rose, George A. : *See*—
Gaudet, Lawrence J., and Rose. 3,040,160.

Rose, George M., Jr. : *See*—
Knauf, Harry V., Jr., and Rose. 3,068,825.

Rose, Glenn R., to General Mills, Inc. Programmed controller. 3,042,171, 7–3–62, Cl. 192—143.

Rose, Glenn R., to General Mills, Inc. Electric circuit reset system. 3,047,167, 7–31–62, Cl. 214—1.

Rose, Herbert : *See*—
Spingies, Erwin, and Rose. 3,019,980.
Spingies, Erwin, and Rose. 3,027,074.
Spingies, Erwin, and Rose. 3,031,139.
Spingies, Erwin, and Rose. 3,044,700.
Spingies, Erwin, and Rose. 3,058,094.

Rose, Homer C. Fastenings. 3,064,321, 11–20–62, Cl. 20—92.4.

Rose, Ira M. : *See*—
Shapiro, Seymour L., Freedman, and Rose. 3,054,794.

Rose, Jack M. Therapeutic composition and method of producing the same. 3,068,149, 12–11–62, Cl. 167—78.

Rose, John B., to Imperial Chemical Industries Ltd. Cross-linked reaction product of tetrafluoroethylene and trifluoronitrosomethane and process thereof. 3,065,214, 11–20–62, Cl. 260—92.1.

Rose, John F., to Maico Electronics, Inc. Acoustical device. 3,031,537, 4–24–62, Cl. 179—107.

Rose, John J. High voltage flashover prevention system. 3,027,718, 4–3–62, Cl. 60—39.82.

Rose, Joseph K. Light shield and adjacent area brightness increaser for viewing apparatus. 3,062,917, 11–6–62, Cl. 178—7.91.

Rose, Julian K., and H. W. Schulz, to Union Carbide Corp. Amide diols and their esters. 3,025,323, 3–13–62, Cl. 260—561.

Rose, Kenneth D., to Blackhawk Industries. Snap-on metal clamp for rigid metal pipe. 3,016,220, 1–9–62, Cl. 248—74.

Rose, Leslie S. *See*—
Beckett, James A., Rose, and Hamrick. 3,054,252.

Rose, Marie L. Perspiration shield. 3,019,443, 2–6–62, Cl. 2—55.

Rose, Peter H., to High Voltage Engineering Corp. Optical alignment of charged particle accelerators. 3,034,846, 5–15–62, Cl. 316—25.

Rose, Peter H., to High Voltage Engineering Corp. Reduction in tandem loading. 3,067,347, 12–4–62, Cl. 313—63.

Rose, Samuel W., R. P. Crow, and W. A. Kelley, to Motorola, Inc. Mobile door control. 3,041,507, 6–26–62, Cl. 317—146.

Rose, Werner P. Removable beam dyeing jig. 3,038,680, 6–12–62, Cl. 242—68.4.

Rose, Yves, to Centre National de la Recherche Scientifique. Endoscopic apparatus. 3,021,835, 2–20–62, Cl. 128—6.

Rosebush, F. Ward : *See*—
Rosebush, Waldo E. 3,059,367.

Rosebush, Judson G., Jr. : *See*—
Rosebush, Waldo E. 3,059,367.

Rosebush, Waldo E., deceased ; F. W. Rosebush and J. G. Rosebush, Jr., executors. Compensating means in a barrel chamber for low and high powered cartridges. 3,059,367, 10–23–62, Cl. 42—76.

Rosekrans. David D., to The Procter & Gamble Co. Hair dressing composition. 3,061,519, 10–30–62, Cl. 167—81.

Rosell, Axel, to Svenska Flaktfabriken, Aktiebolaget. Volume flow regulating device. 3,042,078, 7–3–62, Cl. 137—625.3.

Roselle, Donald O., to E. I. du Pont de Nemours and Co. Laminar fluid flow process. 3,034,526, 5–15–62, Cl. 137—1.

Roseman, Leo. Sewing machine for stitching over wire objects. 3,024,745, 3–13–62, Cl. 112—2.

Roseman, Leo. Fastener tape with concealable fastener elements. 3,066,310, 12–4–62, Cl. 2—265.

Roseman, Leo and R. J. Article having hook fastener tape stitched thereon. 3,046,564, 7–31–62, Cl. 2—338.

Roseman Mower Corp. : *See*—
Hall, George E. 3,038,286.

Roseman, Reuben, F. O. Rummery, J. D. Richards, and R. W. Chrest, to The Glidden Co. Process for making greencake. 3,037,876, 6–5–62, Cl. 106—299.

Roseman, Richard J. : *See*—
Roseman, Leo and R. J. 3,046,564.

Rosen, Carl G. A., and J. J. Dailey, to Darlite Corp. Piston construction. 3,041,116, 6–26–62, Cl. 309—14.

Rosen, Carl G. A., and J. J. Dailey, to Darlite Corp. Method and apparatus for metallizing. 3,041,194, 6–26–62, Cl. 117—38.

Rosen, Fillmore C. : *See*—
Wick, Edward J., and Day. 3,060,874.

Rosen, George, to United States of America, Air Force. Noise modulation system. 3,028,562, 4–3–62, Cl. 332—68.

Rosen, George, to United States of America, Air Force. Dynamic analog speech synthesizer. 3,042,748, 7–3–62, Cl. 179—1.

Rosen, Harold A. : *See*—
Hudspeth, Thomas, and Rosen. 3,028,488.
Jamison, Richard S., and Rosen. 3,042,882.

Rosen, Harold A., to Raytheon Co. Feed-through nulling system. 3,029,427, 4–10–62, Cl. 343—8.

Rosen, Harold N. : *See*—
Kusmer, Seymour, and Rosen. 3,029,519.

Rosen, Irving : *See*—
Slezak, Frank B., and Rosen. 3,019,160.

Rosen, Irving, to Diamond Alkali Co. Phenol bactericide. 3,033,745, 5–8–62, Cl. 167—31.

Rosen, Irving, to Diamond Alkali Co. Method of controlling plant growth by the application of 3-halo-2,3-dihydrothiophene-1,1-dioxide. 3,044,865, 7–17–62, Cl. 71—2.5.

Rosen, Irving, and P. B. Slezak, to Diamond Alkali Co. Methods of bleaching with baloglycoluril compositions. 3,019,075, 1–30–62, Cl. 8—108.

Rosen, Irving, and N. V. Seeger, to Diamond Alkali Co. Xylene diol polyformals. 3,068,294, 12–11–62, Cl. 260—611.

Rosen, Jacob J. : *See*—
Rosenfelder, William J., and Rosen. 3,046,237.

Rosen, Karl I. J. Apparatus for continuous and automatic adjustment and control of the stitch length or closeness of loops during operation of knitting and stockings machines. 3,028,738, 4–10–62, Cl. 66—54.

Rosen, Leo, and J. L. Rothery, to Arthur D. Little, Inc. Magnetic recording apparatus. 3,031,651, 4–24–62, Cl. 340—174.1.

Rosen, Louis W. Badges and pin-attaching means therefor. 3,029,536, 4–17–62, Cl. 40—1.5.

Rosen, Milton. Purlin arrangements. 3,016,995, 1–16–62, Cl. 189—36.

Rosen, Norman J. : *See*—
Bodnar, John W., Rosen, and Spaulding. 3,063,625.

Rosen, Norman. Protective bumper device. 3,018,492, 1–30–62, Cl. 5—93.

Rosen, Sidney. Bottle filling apparatus. 3,047,033, 7–31–62, Cl. 141—284.

Rosen, Sidney. Fluid handling and filling machine. 3,067,786, 12–11–62, Cl. 141—179.

Rosen, Sidney. Sealing arrangement for a pump. 3,069,178, 12–18–62, Cl. 277—112.

Rosenbaum, Alan S. Auditory and visual advertising device. 3,048,083, 8–7–62, Cl. 88—28.

Rosenbaum, Felix, to Comfort Slipper Corp. Shank strengthened rubber sole shoe. 3,061,949, 11–6–62, Cl. 36—2.5.

Rosenbaum, Kurt, W. Bell, and F. Ost, to Alwet-Forschung G.m.b.H. Emergency support. 3,049,162, 8–14–62, Cl. 152—158.

Rosenbaum, Robert : *See*—
Goldman, Conrad, and Rosenbaum. 3,051,993.

Rosenberg, Adolf, to Commercial Solvents Corp. Components of feeds. 3,015,563. 1–2–62, Cl. 99—2.

Rosenberg, Barnett, to Westinghouse Electric Corp. Fluoresc-inflating cushion. 3,015,747, 1–2–62, Cl. 313—108.

Rosenberg, David, and L. Mirando, to The Holiday Line, Inc. Self-inflating cushion. 3,017,642, 1–23–62, Cl. 5—349.

Rosenberg, Edward N., to The National Super Service Co. Suction cleaner. 3,063,082, 11–13–62, Cl. 15—327.

Rosenberg, Elie E., to Laboratoires Cassenne. New dicarbamate and process of preparing same. 3,067,240, 12–4–62, Cl. 260—482.

Rosenberg, Frieda M., % to R. M. Rosenberg, R. M. Rosenberg, Jr., and J. L. Rosenberg, jointly. Shoulder load carrying strap. 3,025,859, 3–20–62, Cl. 128—510.

Rosenberg, Harold, and M. D. Rausch. Silicon-containing dicyclopentadienylmetal compounds and polymers and methods for preparing same. 3,060,215, 10–23–62, Cl. 260—439.

Rosenberg, Harold J. : *See*—
Rabinow, Jacob, and Rosenberg. 3,031,062.

Rosenberg, Harvey, to Eurroughs Corp. Transistor switch having compensating means for thermal effects and transient pulses. 3,038,088, 6–5–62, Cl. 307—88.5.

Rosenberg, Herbert L. : *See*—
Goldberg, Jack, Rosenberg, and Le Vino. 3,021,403.

Rosenberg, J. Loren : *See*—
Rosenberg, Frieda M. 3,025,859.

Rosenberg, Joseph. Laundry drier and control therefor. 3,033,546, 5–8–62, Cl. 263—33.

Rosenberg, Joseph, to General Electric Co. Insulated electrical conductors and coils. 3,038,831, 6–12–62, Cl. 156—175.

Rosenberg, Merton I., to American Bosch Arma Corp. Transistorized breakerless ignition system. 3,034,018, 5–8–62, Cl. 315—205.

Rosenberg, Michael A., to San Fernando Electric Mfg. Co. Capacitor structure. 3,042,845, 7–3–62, Cl. 317—242.

Rosenberg, Milton, to Gulf Research & Development Co. Water base drilling fluid and method of drilling. 3,027,324, 3–27–62, Cl. 252—8.5.

Rosenberg, Milton, to Gulf Research & Development Co. Drilling process, and water base drilling muds. 3,047,493, 7–31–62, Cl. 252—8.5.

Rosenberg, Milton, and P. W. Schaub, to Gulf Research & Development Co. Water-base drilling fluid having enhanced lubricating properties. 3,048,538, 8–7–62, Cl. 252—8.5.

Rosenberg, R. M., Jr. : *See*—
Rosenberg, Frieda M. 3,025,859.

Rosenberg, Richard M. : *See*—
Wartik, Thomas, and Rosenberg. 3,033,770.

Rosenberg, Robert M. : *See*—
Rosenberg, Frieda M. 3,025,859.

Rosenberg, Sheldon, and O. K. Schmidt, to International Cigar Machinery Co., Inc. Manufacture of tobacco. 3,016,907, 1–16–62, Cl. 131—140.

Rosenberg, Sheldon, and O. K. Schmidt, to American Machine & Foundry Co. Tobacco products. 3,042,552, 7–3–62, Cl. 131—17.

Rosenberg, Stanley L. : *See*—
Oster, Frank, and Rosenberg. 3,061,670.

Rosenberg, Stig E. Reinforcing patch for latex garments. 3,033,207, 5–8–62, Cl. 128—521.

Rosenberger, Georg : *See*—
Kniepkamp, Heinrich, and Rosenberger. 3,063,811.

Rosenberger, Gerald B., and O. W. Johnson, Jr., to International Business Machines Corp. Superconductor oscillator. 3,022,468, 2–20–62, Cl. 331—107.

Rosenberger, Harold E. *See*—
Korones, Herbert D., and Rosenberger. 3,045,545.

Rosenberger, John, to Lion Mfg. Corp. Velocity score control. 3,063,719, 11–13–62, Cl. 273—126.

Rosenberger, Maurice S., to General Motors Corp. Transmission control system. Re. 25,180, 6–5–62, Cl. 74—472.

Rosenberger, Maurice S., F. J. Winchell, and H. W. Schultz, to General Motors Corp. Clutch structure with flat and undulated disk pack. 3,016,119, 1–9–62, Cl. 192—68.

Rosenberger, Maurice S., F. J. Winchell, and H. W. Schultz, to General Motors Corp. Clutch structure. 3,063,530, 11–13–62, Cl. 192—69.

Rosenberry, George M., Jr. : *See*—
Baumann, Fred W., and Rosenberry. 3,034,035.

Rosenberry, George M., Jr., to General Electric Co. Squirrel cage induction motor rotor. 3,027,474, 3–27–62, Cl. 310—211.

Rosenberry, W. K.: *See*—
Traczy-Hornoch, Zoltan. 3,060,791.
Rosenblad, Curt F. **Flushing systems for discharging materials from receptacles.** 3,064,726, 11–20–62, Cl. 162—246.
Rosenblatt, Leonard: *See*—
Berger, Stanley, and Rosenblatt. 3,037,088.
Rosenblatt, Maurice C. Device for protecting ears from high intensity noise. 3,016,054, 1–9–62, Cl. 128—152.
Rosenblatt, Murray, to General Electric Co. Half-wave motor control circuit. 3,024,405, 3–6–62, Cl. 318—513.
Rosenbloom, Devorah: *See*—
Rosenbloom, Harold. 3,053,785.
Rosenbloom, Harold, deceased, by D. Rosenbloom, executrix. Aqueous alkalie solution comprising vinyl acetate copolymer, a chromate and water-soluble volatile base. 3,053,-785, 9–11–62, Cl. 260—29.3.
Rosenbloom, William J., to Chemical Construction Corp. Recovery of oxides of sulfur and fluorides from gas mixtures. 3,031,262, 4–24–62, Cl. 23—88.
Rosenblum, Philip: *See*—
Oxspring, Ronald E. N., and Rosenblum. 3,016,810.
Rosenblum, Robert A.: *See*—
Hitt, Otis D., Knapp, Johnson, and Rosenblum. 3,018,673.
Rosenblum, Robert A., to United States of America, Army. Rammer. 3,024,705, 3–13–62, Cl. 89—47.
Rosenbluth, Marshall N.: *See*—
Kruskal, Martin, Tuck, Colgate, and Rosenbluth. 3,016,-342.
Rosenboom, Werner: *See*—
Kebekus, Alfred, and Rosenboom. 3,017,314.
Rosenbrock, Earl H.: *See*—
Doedens, James D., and Rosenbrock. 3,047,518.
Hennis, Henry E., and Rosenbrock. 3,022,222.
Rosendahl, Lawrence B.: *See*—
Cafferty, Aloysius G., and Rosendahl. 3,023,879.
Rosendahl, Lawrence B., to Western Electric Co., Inc. Magnetic article handling apparatus. 3,066,785, 12–4–62, Cl. 198—27.
Rosenfeld, Aaron, and K. Kupferberg, to Forbro Design Inc. Regulated output voltage power supply. 3,028,538, 4–3–62, Cl. 323—22.
Rosenfeld, Aaron, and K. Kupferberg, to Forbro Design Inc. Protective system for transistors. 3,056,905, 10–2–62, Cl. 317—40.
Rosenfeld, Joseph: *See*—
Pazan, Seymour. 3,033,614.
Rosenfeld, Morton M. Luminescent coaster. 3,017,051, 1–16–62, Cl. 215—100.5.
Rosenfeld, Murray M. Pressure gradient transducers. 3,068,-328, 12–11–62, Cl. 179—138.
Rosenfelder, William J., and J. J. Rosen, to Dublon, Inc. Blend comprising plasticized vinyl chloride resin and a monoolefinic polymer and process of preparing same. 3,046,-237, 7–24–62, Cl. 260—23.
Rosengren, Gosta B.: *See*—
Gunther, Gunnar G. J., and Rosengren. 3,058,866.
Rosengreen, Karl: *See*—
Bendixen, Bendix I., and Rosengreen. 3,027,571.
Rosenhagen, William, to Simplex Lock Corp. Permutation lock. 3,040,556, 6–26–62, Cl. 70—315.
Rosenheim, Donald E.: *See*—
Walker, Robert M., Anderson, and Rosenheim. 3,018,958.
Rosenkaimer G.m.b.H.: *See*—
Rosenkaimer, Karl. 3,016,910.
Uthemann, Wolfgang. 3,021,854.
Rosenkaimer, Karl, to Rosenkaimer G.m.b.H. Self-opening umbrella. 3,016,910, 1–16–62, Cl. 135—22.
Rosenkrands, Johannes, to General Motors Corp. Steering arrangement for a solid front axle suspension. 3,020,060, 2–6–62, Cl. 280—95.
Rosenkrands, Johannes, to General Motors Corp. Independent front wheel suspension. 3,033,586, 5–8–62, Cl. 280—96.1.
Rosenkrands, Johannes W., to General Motors Corp. Swing axle rear suspension. 3,020,061, 2–6–62, Cl. 280—104.
Rosenkranz, George: *See*—
Djerassi, Carl, and Rosenkranz. 3,026,338.
Djerai, Carl, Rosenkranz, Kaufmann, Pataki, and Romo. 3,020,294.
Ringold, Howard J., Bowers, and Rosenkranz. 3,028,401.
Ringold, Howard J., Bowers, and Rosenkranz. 3,035,067.
Ringold, Howard J., Mancera, and Rosenkranz. 3,056,-815.
Ringold, Howard J., Mancera, Rosenkranz, and Edwards. 3,019,239.
Ringold, Howard J., Mancera, Rosenkranz, and Edwards. 3,036,096.
Ringold, Howard J., and Rosenkranz. 3,018,285.
Ringold, Howard J., Sondheimer, and Rosenkranz. 3,032,552.
Ringold, Howard J., Sondheimer, Rosenkranz, Strok, and Djerassi. 3,065,226.
Ringold, Howard J., Zderic, Batres, and Rosenkranz. 3,017,419.
Sondheimer, Franz, and Rosenkranz. 3,055,915.
Rosenkranz, George, to Syntex, S.A. 17α-methyl-9α-fluoro-Δ^1-androstene-17β-ol-3-one derivatives. 3,019,246, 1–30–62, Cl. 260—397.45.
Rosenkranz, George, and C. Djerassi, to Syntex S.A. 16,17-oxido-allopregnane-3,20-dione-derivatives. 3,018,284, 1–23–62, Cl. 260—239.55.
Rosenkranz, Jules J., to Lafayette Brass Mfg. Co., Inc. Rotating reaction sprinkler and method of assembling the same. 3,030,030, 4–17–62, Cl. 239—116.
Rosenkranz, Jules J., to Lafayette Brass Mfg. Co., Inc. Shower head. 3,030,033, 4–17–62, Cl. 239—460.
Rosenkranz, Wilhelm: *See*—
Schulte, Friedrich W., Wiechell, and Rosenkranz. 3,034,383.
Rosenkranz, Wilhelm, to Otto Fuchs, K.G. Method of forming tubular bodies. 3,037,623, 6–5–62, Cl. 207—10.
Rosenlund, Gordon T., to Hi-Products, Inc. Control for electrical circuit breakers. 3,037,104, 5–29–62, Cl. 200—172.
Rosenmund, Karl W., and H. Bach. Method for the production of lactones of saturated delta-hydroxymono- or dicarboxylic acids with more than 5 carbon atoms. 3,048,599, 8–7–62, Cl. 260—343.5.
Rosenquist, Paul A., and R. R. Yaegle, to Royalmetal Corp. Collapsible desk or carrell structure. 3,063,773, 11–13–62, Cl. 312—313.
Rosensson, Sven O.: *See*—
Mescher, Harold E., and Rosensson. 3,066,971.
Rosenstein, Max D.: *See*—
Boxall, Frank S., and Rosenstein. 3,027,522.
Rosenstrach, Hyman. Flashlight electric testers. 3,061,776, 10–30–62, Cl. 324—53.
Rosensweig, Louis: *See*—
Chait, Hyman. 3,031,038.
Rosenthal, Adolph H., and S. Tinto, to Fairchild Camera and Instrument Corp. Ultrasonic light modulator cell assembly. 3,035,491, 5–22–62, Cl. 88—61.
Rosenthal, David. Wooden hens' nests. 3,044,444, 7–17–62, Cl. 119—45.
Rosenthal, Harry. Reinforced laminated panels with foam core. 3,030,256, 4–17–62, Cl. 154—45.9.
Rosenthal, Harry. Baby chair bed. 3,049,376, 8–14–62, Cl. 297—320.
Rosenthal, Henry. Discarding obturator and rotator for projectiles. 3,053,268, 9–25–62, Cl. 89—1.
Rosenthal, Henry L. Snow plow. 3,021,620, 2–20–62, Cl. 37—43.
Rosenthal, Isadore, and P. J. McLaughlin, to Rohm & Haas Co. Modified papers and methods for preparing them. 3,017,290, 1–16–62, Cl. 117—106.
Rosenthal, Joseph F., to Xerox Corp. Xerographic and magnetic image recording and reproducing. 3,043,685, 7–10–62, Cl. 96—1.
Rosenthal, Leon. Riveting machines. 3,053,123, 9–11–62, Cl. 78—49.
Rosenthal, Louis A., to Union Carbide Corp. Metal detector. 3,065,412, 11–20–62, Cl. 324—41.
Rosenthal, Manuel. Folding napalm land mine. 3,064,569, 11–20–62. Cl. 102—8.
Rosenthal, Manuel G. Method of enclosing lampshades. 3,065,531, 11–27–62, Cl. 29—450.
Rosenthal, Morris: *See*—
Hager, Karl F., and Rosenthal. 3,068,081.
Rosenthal, Norman A., to Thiokol Chemical Corp. Stabilizing polyethylene with carbon, a polymeric phenol sulfide and an organic reducing agent. 3,070,569, 12–25–62, Cl. 260—41.
Rosenthal, Paul H., to Davis & Thompson Co. Gear chamfering machines. 3,053,017, 9–11–62, Cl. 51—33.
Rosenthal, Robert A.: *See*—
Dresser, James R., and Rosenthal. 3,031,043.
Rosenthal, Robert W., R. Proper, and N. P. Greco, to Koppers Co., Inc. Preparation of alkyl alpha-(hydroxymethyl) acrylates. 3,066,165, 11–27–62, Cl. 260—484.
Rosenthal, Sidney, to United States of America, Air Force. Electromechanical linear reciprocal actuator. 3,045,779, 7–24–62, Cl. 185—37.
Rosenthal, Sidney N., to Speedry Chemical Products, Inc. Combination ink well and felt nib pen. 3,020,578, 2–13–62, Cl. 15—517.
Rosenthal, Sidney N., to Speedry Chemical Products, Inc. Combined clip-board and marking device. 3,030,922, 4–24–62, Cl. 120—1.
Rosenthal, Sidney N., to Speedry Chemical Products, Inc. Inkwells. 3,035,542, 5–22–62, Cl. 118—268.
Rosenthal, Sidney N., to Speedry Chemical Products, Inc. Nib bushings. 3,044,101, 7–17–62, Cl. 15—563.
Rosenthal, Sidney N., to Speedry Chemical Products, Inc. Fountain pen. 3,048,879, 8–14–62, Cl. 15—563.
Rosenthal, Sidney N., to Speedry Chemical Products, Inc. Felt pack construction of pens. 3,050,768, 8–28–62, Cl. 15—563.
Rosenthal, Sidney N., to Speedry Chemical Products, Inc. Stenciling devices. 3,051,980, 9–4–62, Cl. 15—563.
Rosenthal, Sidney N., to Speedry Chemical Products, Inc. Top cap assembly for pens. 3,057,000, 10–9–62, Cl. 15—563.
Rosenthal, Sidney N., to Speedry Chemical Products, Inc. Method of manufacture of top cap assembly for pens. 3,069,767, 12–25–62, Cl. 29—512.
Rosenthal, Walter, and G. Schorsch. Animal feed compositions. 3,021,216, 2–13–62, Cl. 99—2.
Rosenthal, Zoltan, to S.R.S. Jewelry Casting Corp. Method of forming ring-like frames for jewelry or the like. 3,025,-820, 3–20–62, Cl. 113—116.
Rosenthaler, Milton, to The Sucher Packing Co. Apparatus for forming extrudible meat products. 3,034,171, 5–15–62, Cl. 17—35.

Rosenthaler, Milton, to The Sucher Packing Co. Formation of meat products. 3,042,964, 7–10–62, Cl. 17—35.

Rosenwald, Robert H.: *See*—
Chenicek, Joseph A., and Rosenwald. 3,053,682.

Rosett, Bernard: *See*—
Westover, Thomas A., and Rosett. 3,054,898.

Rosetz, Kurt. Earth working machines. 3,047,122, 7–31–62, Cl. 198—7.

Roseveare, William E.: *See*—
Radow, Norman, and Roseveare. 3,039,174.

Roseway, Walter N.: *See*—
Frankton, William J., Roseway, Atkinson, and Archibald. 3,059,068.

Rosher, John W.: *See*—
Northwood, John V., and Rosher. 3,049,113.

Rosi, Fred D., to Radio Corp. of America. Thermoelectric elements having graded energy gap. 3,050,574, 8–21–62, Cl. 136—5.

Rosi, Fred D., and L. R. Weisberg, to Radio Corp. of America. Method for purifying materials. 3,019,092, 1–30–62, Cl. 23—294.

Rosi, Fred D., and J. J. Hanak, to Radio Corp. of America. Superconductors. 3,028,341, 4–3–62, Cl. 252—518.

Rosi, Fred D., and R. A. Bernoff, to Radio Corp. of America. Method and materials for obtaining low resistance bonds to thermoelectric bodies. 3,037,064, 5–29–62, Cl. 136—5.

Rosier, Gerardus, to North American Philips Co., Inc. Pulse width discriminator employing a transistor wherein the bias is controlled by an integrating circuit. 3,047,735, 7–31–62, Cl. 307—88.5.

Rosin, Ira. Mixing apparatus. 3,033,540, 5–8–62, Cl. 259—132.

Rosing, Seymour, to Buffalo Courier Express, Inc. Device for attaching a newspaper receptacle to a rural mailbox. 3,030,058, 4–17–62, Cl. 248—205.

Rosinski, Edward J.: *See*—
Cramer, Robert H., and Rosinski. 3,042,628.
Oleck, Stephen M., Rosinski, and Wantuck. 3,025,248.
Plank, Charles J., and Rosinski. 3,067,127.
Plank, Charles J., Rosinski, and Smith. 3,015,620.

Roske, Martin, to United Shoe Machinery Corp. Machines for attaching strip material to insoles. 3,048,863, 8–14–62, Cl. 12—20.

Roske, Milton H., to United Shoe Machinery Corp. Shoe trimming machines. 3,069,705, 12–25–62, Cl. 12—4.3.

Rosler, Wulff, to Gewerkschaft Eisenhutte Westfalia. Overload arrangement for mining planer. 3,033,542, 5–8–62, Cl. 262—8.

Rosner, Ernest B. Anodizing rack. 3,033,776, 5–8–62, Cl. 204—297.

Rosner, Miklós, to Lignimpex Fa-, Papir-es Tüzelöanyag Külkereskedelmi Vállalat. Device for the continuous determination of the drying capacity of free air. 3,041,877, 7–3–62. Cl. 73—335.

Ross, Alan: *See*—
Taffe, David L. and Ross. 3,045,181.

Ross, Alan, J. S. Eisenmeyer, and I. Rakofsky, to Polarad Electronics Corp. Spectrum analyzer with relative amplitude marker. 3,019,389, 1–30–62, Cl. 324—77.

Ross, Albert, to Standard Electrical Products Co. Electrical apparatus. 3,025,452, 3–13–62, Cl. 323—47.

Ross, Amy J. Apparatus for producing and storing ice. 3,066,500, 12–4–62. Cl. 62—344.

Ross, Arthur H., to United States of America, Army. Translating circuit producing output only when input is between predetermined levels utilizing different breakdown diodes. 3,041,469, 6–26–62, Cl. 301—88.5.

Ross, Arthur L, to American Biltrite Rubber Co., Inc. Abrading machine for laboratory testing. 3,065,627, 11–27–62, Cl. 73—7.

Ross. Bernard: *See*—
Fleishman, Charles H., and Ross, 3,025,662.

Ross, Bernd, to Hoffman Electronics Corp. Light polarizing apparatus or the like. 3,021,754, 2–20–62, Cl. 88—61.

Ross, Bernd, to Hoffman Electronics Corp. Double based diode. 3,039,028, 6–12–62, Cl. 317—234.

Ross, Bernd, to Hoffman Electronics Corp. Semi-conductor device and method of making the same. 3,062,690, 11–6–62, Cl. 148—1.5

Ross, Byron W. Phonograph tape adapter. 3,054,616, 9–18–62, Cl. 274—11.

Ross, Carl D., to Callery Chemical Co. Production of isopropylvinylenedecaborane. 3,028,432, 4–3–62, Cl. 260—606.5.

Ross, Dan C.: *See*—
Cypser, Rudolph J., Harrington, Hopkins, Housman, Jeffrey, and Ross. 3,056,110.

Ross, Daniel W., to United States of America, Navy. Projectile nose structure. 3,040,661, 6–26–62, Cl. 102—70.2.

Ross, David S. and G. W., to The Amcodyne Corp. Tank construction. 3,059,243, 10–23–62, Cl. 4—172.

Ross, Edward J.: *See*—
Elbreder, Charles H., and Ross. 3,029,784.

Ross, Edward J., and C. H. Elbreder. Composition and method for inhibition of corrosion of surgical instruments during steam sterilization. 3,037,337, 6–5–62, Cl. 21—2.5.

Ross, Eugene G.: *See*—
Robinson, George H., and Ross. 3,022,407.
Shoudy, Albert A., Jr., and Ross. 3,053,689.
Willard, Frank G., and Ross. 3,017,984.

Ross, Frederick W. Aerodynamic aircraft control system. 3,016,215, 1–9–62, Cl. 244—83.

Ross, Frederick W. Gas turbine engine. 3,045,894, 7–24–62, Cl. 230—114.

Ross, Gene W.: *See*—
Ross, David S. and G. W. 3,059,243.

Ross, Gerhard: *See*—
Lammler, Georg, Loewe, and Ross. 3,029,186.

Ross, Guy E., by decree of distribution to L. M. Ross. Log loader for sawmills. 3,033,250, 5–8–62, Cl. 143—92.

Ross, Guy E., to L. M. Ross, by decree of distribution. Log loader and turner for sawmills. 3,040,788, 6–26–62, Cl. 143—101.

Ross, Harry H. Card storage racks and component devices therefor. 3,023,907, 3–6–62, Cl. 211—55.

Ross, Henry M. Non-refillable bottle and valved stopper therefor. 3,025,987, 3–20–62, Cl. 215—18.

Ross, Herbert F., to Chain Anodizers Inc. Apparatus for continuously electrolytically treating flexible articles. 3,046,214, 7–24–62, Cl. 204—210.

Ross, Hubert F., to United Shoe Machinery Corp. Inseam trimming and welt beating machines. 3,063,072, 11–13–62, Cl. 12—4.4.

Ross, Hugh C., to Jennings Radio Mfg. Corp. Vacuum load-break switch. 3,042,766, 7–3–62, Cl. 200—62.

Ross, Ian M.: *See*—
Atalla, Martin M., Ross, and Smits. 3,045,129.

Ross, James D.: *See*—
Bartlett, William F., and Ross. 3,066,192.

Ross, James F. Rotary type hydraulic valve. 3,021,869, 2–20–62, Cl. 137—621.

Ross, John H., Jr., and G. D. Stillie, Jr., to July Corp. Soap holder. 3,029,547, 4–17–62, Cl. 45—28.

Ross, John M., and W. C. Smith, to E. I. du Pont de Nemours and Co. 3-cyano, 4-hydroxy-1,2,5-thiadiazole, derivatives and process. 3,068,238, 12–11–62, Cl. 260—302.

Ross, John W., to Olin Mathieson Chemical Corp. Process for preparing 1-dehydro steroids. 3,022,226, 2–20–62, Cl. 195—51.

Ross, John W., L. W. Holmes, and J. Wilson, to Union Carbide Canada Ltd. Gas proportioner. 3,032,053, 5–1–62, Cl. 137—111.

Ross, Joseph H.: *See*—
Schaefer, Frederic C., and Ross. 3,062,818.

Ross, Joseph H., Jr., W. S. Molnar, and H. E. Riley, to Union Carbide Corp. Method for improving the color-stability of acrylonitrile-styrene copolymer. 3,032,540, 5–1–62, Cl. 260—85.5.

Ross, Karl F. Continuous wave echo-type distance finder. 3,022,503, 2–20–62, Cl. 343—12.

Ross, Karl F. Projection of stereoscopic pictures. 3,046,330, 7–24–62, Cl. 178—6.5.

Ross, Karl F. Angle-modulation system. 3,051,902, 8–28–62, Cl. 325—40.

Ross, Lawrence J.: *See*—
Rutenberg, Morton W., Jarowenko, and Ross. 3,038,895.

Ross, Lee J.: *See*—
King, George O., Jr., and Ross. 3,069,063.

Ross, Lepha M.: *See*—
Ross, Guy E. 3,033,250.
Ross, Guy E. 3,040,788.

Ross, Leroy W. Magnetic uncoupler for model railroad cars. 3,021,621, 2–20–62, Cl. 213—211.

Ross, Marshall W., to Acushnet Process Co. Nail-lift assembly for women's shoe heels. 3,035,358, 5–22–62, Cl. 36—34.

Ross, Marvin O., to General Motors Corp. Dispensing device. 3,019,629, 2–6–62, Cl. 68—17.

Ross, Max A., and W. O. Mansfield. Road surfacing equipment. 3,034,410, 5–15–62, Cl. 94—46.

Ross, Milton I.: *See*—
Seymour, James J. 3,023,458.

Ross, Nicholas V., to Ajax Magnethermic Corp. High-temperature thermocouple device. 3,016,412, 1–9–62, Cl. 136—4.

Ross, Nicholas V., to Ajax Magnethermic Corp. Inductors for seam welding. 3,038,055, 6–5–62, Cl. 219—8.5.

Ross, Nicholas V., and W. Vangeloff, to Magnethermic Corp. Induction heating. 3,031,555, 4–24–62, Cl. 219—10.79.

Ross Operating Valve Co.: *See*—
Brinkel, Edwin P. 3,047,017.
Di Pirro, Domenic A., and Cameron. 3,067,767.

Ross, Raymond W.: *See*—
Robertson, Donald, and Ross. 3,055,961.

Ross, Raymond W., to Leeds and Northrup Co. Instrument panel assemblies. 3,035,446, 5–22–62, Cl. 73—432.

Ross, Roger J., to The Singer Mfg Co. Adjustable shank button clamp. 3,033,137, 5–8–62, Cl. 112—114.

Ross, Roger J., to The Singer Mfg. Co. Work clamp loading device for sewing machines. 3,044,425, 7–17–62, Cl. 112—113.

Ross, Russell H.: *See*—
Fox, Homer M., and Ross. 3,032,449.

Ross, Sidney: *See*—
Wilkerson, Kenneth R. 3,036,612.

Ross, Sidney D., to Sprague Electric Co. Electrolytic capacitor. 3,067,367, 12–4–62, Cl. 317—230.

Ross, Sidney D., R. C. Petersen, and M. Finkelstein, to Sprague Electric Co. Electrolytic capacitor. 3,052,829, 9–4–62, Cl. 317—230.

Ross, Sidney H., and L. Teitell, to United States of America, Army. Antibiotics as preservatives for industrial materials. 3,038,819, 6–12–62, Cl. 117—138.5.

Ross-Tacony Crucible Co.: *See*—
Roberts, Henry E. 3,027,611.

Ross-Temp, Inc.: *See*—
Schneider, Louis J., and Hackman. 3,034,317.
Ross, Travis Y., to Dixie Wax Paper Co. Method for making bags. 3,044,369, 7–17–62, Cl. 93—35.
Ross, Valentine A., and F. J. Montalto, to MCR Enterprises, Inc. Advertising display assembly. 3,037,311, 6–5–62, Cl. 40—125.
Ross, Wallace J.: *See*—
Reed, Herbert B., and Ross. 3,027,443.
Ross, Wayne L.: *See*—
Cobb, John, Rice, Ross, and Sauer. 3,042,595.
Ross, Wilford H., Jr., J. E. Maloney, and J. M. Stapleton, to Detrex Chemical Industries, Inc. Phosphate coating method. 3,060,066, 10–23–62, Cl. 148—6.15.
Ross, William A., to Dura Corp. Adapter adjusting means for vehicle lifts. 3,018,848, 1–30–62, Cl. 187—8.75.
Ross, William J., to Techne (Cambridge) Ltd. Apparatus for controlling the flow of liquids. 3,024,737, 3–13–62, Cl. 103—262.
Rosscup, Robert J., and H. J. Liebe, to Standard Oil Co. Lubricant comprising a lubricating oil and an ureido compound. 3,015,625, 1–2–62, Cl. 252—49.6.
Rosselle, Robert W. Boat anchor. 3,030,907, 4–24–62, Cl. 114—208.
Rossen, Norman T.: *See*—
Peterson, Earl A., Tarika, and Rossen. 3,041,736.
Rosser, Charles M., to American Viscose Corp. Shrinkable moistureproof food wrapping material. 3,037,868, 6–5–62, Cl. 99—171.
Rossetti, Charles, to Simeca S.A. Machine for copying flat keys. 3,053,149, 9–11–62, Cl. 90—13.05.
Rossetti, Charles. Devices for dispensing a product in the form of a paste. 3,066,832, 12–4–62, Cl. 222—207.
Rossi, Alberto: *See*—
Duey, Jean, Eichenberger, Schmidt, and Rossi. 3,060,-177.
Hoffmann, Karl, Rossi, and Kebrle. 3,055,912.
Rossi, Anacleto. Opening and closure device for a flat container. 3,043,355, 7–10–62, Cl. 150—7.
Rossi, Elio R., to Ateliers de Constructions Metalliques et Mecaniques Giovanola Freres S.A. Remote-control valve. 3,026,081, 3–20–62, Cl. 251—14.
Rossi, Giorgio: *See*—
Losco, Giuseppe, Rossi, and Michieli. 3,033,744.
Tonelli, Pietro D., Losco, Rossi, and Santi. 3,026,243.
Rossi, Giovanni. Heat exchanger with tubular elements, especially for hot-water and superheated-water heating boilers. 3,046,955, 7–31–62, Cl. 122—406.
Rossi, Giovanni. Steam generating element for unidirectional water circulation. 3,063,430, 11–13–62, Cl. 122—406.
Rossi, Joseph A. Multisectional interlocked snow mold. 3,059,279, 10–23–62, Cl. 18—34.
Rossi Joseph P.: *See*—
Bottinelli, Norman E., and Rovenger. 3,048,875.
Rossi, Joseph V., and L. Goldman, to Comfort Lines, Inc. Folding stool. 3,058,544, 10–16–62, Cl. 182—129.
Rossi, Pietro, to Marelli S.p.A. Fabbrica Italiana Magneti. Transistor-operated regulating system for low voltage generators. 3,067,380, 12–4–62, Cl. 322—25.
Rossi, Ralph, to Carlton Mfg. Co. Spool drive. 3,036,785, 5–29–62, Cl. 242—46.2.
Rossi, Robert R., to Arrow-Safety Device Co. Reflector device. 3,066,899, 12–4–62, Cl. 248—33.
Rossi, Veikko. Radiosonde and temperature controlling means therefor. 3,028,486, 4–3–62, Cl. 250—2.
Rossing, Thomas D.: *See*—
Pohm, Arthur V., Mitchell, and Rossing. 3,015,807.
Rubens, Sidney M., and Rossing. 3,030,612.
Rossire, Francis H. S., to The Bendix Corp. Manual controller. 3,017,142, 1–16–62, Cl. 244—77.
Rossiter, Paul H., to Welding Engineers, Inc. Dewatering means for plastic materials. 3,035,306, 5–22–62, Cl. 18—12.
Rosskopf, Hans, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Arrangement for lubricating and cooling rotating parts. 3,042,462, 7–3–62, Cl. 308—187.
Rossmann, Udo: *See*—
Ziegler, Erich, Rossmann, and Litvan. 3,022,317.
Rossmy, Gerd, to Th. Goldschmidt A.G. Process for the production of a silane mixture. 3,069,452, 12–18–62, Cl. 260—448.2.
Rössner, Wolfgang, to Siemens-Schuckertwerke Aktiengesellschaft. Induction heating device for rod and tube-shaped material. 3,035,142, 5–15–62, Cl. 219—9.5.
Rossner, Wolfgang, to Siemens-Schuckertwerke Aktiengesellschaft. Arc welding device for rod or tube material. 3,068,343, 12–11–62, Cl. 219—60.
Rosso, John B., to Instruments, Inc. Capacitance responsive relay circuit. 3,067,364, 12–4–62, Cl. 317—148.5.
Rossoni, Angelo S.: *See*—
McCarty, Lee A., and Rossoni. 3,035,721.
Rostoker, William, and C. J. Carter, to Atlas Steels Ltd. Age hardening of stainless steels with niobium silicides. 3,029,171, 4–10–62, Cl. 148—38.
Rostoker, William, and R. F. Domagala, to Armour Research Foundation of Illinois Institute of Technology. Metal cladding process and products resulting therefrom. 3,060,-557, 10–30–62, Cl. 29—194.
Roszkowski, Adolph P.: *See*—
Poos, George I., and Roszkowski. 3,028,306.
Rota Apparate- und Maschinenbau Dr. Hennig K.G. Aachon: *See*—
Korb, Herbert. 3,056,404.
Rotary Hoes Ltd.: *See*—
Howard, Arthur C. 3,015,966.
Howard, John A. 3,067,533.
Rotary Hospital Equipment Corp.: *See*—
Geneste, Henry G. 3,064,359.
Weiss, William, and Geneste. 3,064,666.
Rotax Ltd.: *See*—
Bourne, William G., and Hayter. 3,023,286.
Chandler, Robert W. 3,051,440.
Simons, Walford J. L., and White. 3,051,421.
Williams, Edward K. 3,023,345.
Roters, Herbert C., to Casner Patents, Inc. Axial air-gap dynamoelectric machine. 3,023,330, 2–27–62, Cl. 310—162.
Roth, Albert W. Apparatus for fabricating fan hubs. 3,056,-369, 10–2–62, Cl. 113—99.
Roth, Charles P., and J. C. Webnar, to Hercules Powder Co. Filament comprising polypropylene and a caprolactam-coated pigment and method of making same. 3,061,576, 10–30–62, Cl. 260—41.
Roth, Curt B., to General Aniline & Film Corp. Diffusion-transfer reversal process. 3,042,514, 7–3–62, Cl. 96—29.
Roth, Curt B., L. Horwitz, and H. A. Levine, to General Aniline & Film Corp. Sensitizing dyes containing a 6-β-cyanoethoxybenzothiazole dye nucleus. 3,062,815, 11–6–62, Cl. 260—240.6.
Roth, Douglas J.: *See*—
Herron, Robert H., Reed, and Roth. 3021,592.
Roth, Ernest E., and H. E. Tanner, to Alvey Conveyor Mfg. Co. Unloading apparatus for material handling systems. 3,038,615, 6–12–62, Cl. 214—8.5.
Roth, Ernest J., S. Dale, and E. Schwertl, to Joe Lowe Corp. Endless automatic proofer and/or cooler combined with a dough former. 3,034,455, 5–15–62, Cl. 107—4.
Roth, Grant V. W., and F. E. Saari, to Monarch Equipment Co. Operating valve and piston. 3,025,871, 3–20–62, Cl. 137—238.
Roth, Harold H., to The Dow Chemical Co. Sulfonation of alkenylaromatic resins with sulfuric acid. 3,033,834, 5–8–62, Cl. 260—793.
Roth, Harold H., to The Dow Chemical Co. Viscous solutions comprising sulfonated alkenyl aromatic resins and galactomannan gum. 3,043,550, 8–7–62, Cl. 260—17.4.
Roth, Harold H., to The Dow Chemical Co. Grinding and polishing compositions and method of making same. 3,053,-646, 9–11–62, Cl. 51—298.
Roth, Harold H., to The Dow Chemical Co. Sulfonation of alkenylaromatic resins with sulfuric acid. 3,056,766, 10–2–62, Cl. 260—79.3.
Roth, Harold H., to The Dow Chemical Co. Viscous compositions of aqueous salt solutions and monoalkenylaromatic sulfonate polymers. 3,067,161, 12–4–62, Cl. 260—29.6.
Roth, Howard T.: *See*—
Bernardi, Dominic J., Tringal, Roth, and Engle. 3,017,374.
Carlick, Daniel J., Kennedy, Kutik, and Roth. 3,039,-979.
Roth, Irving, and R. E. Rachlis, to Bulova Research and Development Laboratories, Inc. Infra-red ballistic missile detection system. 3,061,727, 10–30–62, Cl. 250—83.3.
Roth, James E. Hollow body formed from foldable sheet. 3,023,944, 3–6–62, Cl. 229—8.5.
Roth, Jay M., to Mechanisms Co. Internal toggle linkage pump. 3,016,022, 1–9–62, Cl. 103—215.
Roth, Jay M., to Mechanisms Co. Fluid pressure transducer. 3,065,708, 11–27–62, Cl. 103—136.
Roth, Julius: *See*—
Boddorff, Raymond D., Lawrence, and Roth. 3,063,373.
Roth, Louis H. Battery adapter. 3,045,059, 7–17–62, Cl. 136—173.
Roth, Norman E. Electric cow trainer. 3,038,444, 6–12–62, Cl. 119—27.
Roth, Paul L.: *See*—
Sandberg, Carl L., Roth, and Mullins. 3,046,226.
Roth, Paul L., and A. R. Schultz, to Minnesota Mining & Mfg. Co. Stabilized polypyrrolidone. 3,052,654, 9–4–62, Cl. 260—78.
Roth, Philip B.: *See*—
Cooke, Theodore F., and Roth. 3,035,942.
Roth, Philip B., to American Cyanamid Co. Process of finishing textiles with silicone-colloidal melamine resin mixtures, compositions and resultant article. 3,032,442, 5–1–62, Cl. 117—139.4.
Roth, Philip B., to American Cyanamid Co. Novel textile finishing compositions and process for using the same. 3,063,869, 11–13–62, Cl. 117—139.4.
Roth, Robert, to Radio Corp. of America. Fabrication of butt-type strain isolation seals. 3,064,331, 11–20–62, Cl. 29—155.5.
Roth, Roger W.: *See*—
Slayter, Games, and Roth. 3,040,377.
Roth, Roy W., to American Cyanamid Co. Method of treating hair with thydroxyether amides of polyacrylic acids. 3,016,333, 1–9–62, Cl. 167—87.
Roth, Roy W., to American Cyanamid Co. Tris-p-vinyl benzyl isocyanurate and polymers thereof. 3,061,591, 10–30–62, Cl. 260—75.
Roth, Stanley F.: *See*—
Park, William R., and Roth. 3,053,695.

Roth, Szymon : *See*—
Cohen, Elie, and Roth. 3,056,895.
Roth, Walter, to Vereinigte Leichtmetall-Werke Gesellschaft mit beschrankter Haftung. Method and apparatus for manufacturing semifinished metallic products. 3,055,067, 9–25–62, Cl. 22—57.2.
Roth, Wilfred. Mass flowmeter. 3,049,919, 8–21–62, Cl. 73—228.
Roth, Wilfred. Detection apparatus. 3,065,453, 11–20–62, Cl. 340—16.
Roth, Wilfred. Acoustic transducers. 3,070,790, 12–25–62, Cl. 340—384.
Rothacker, Francis N., to Modern Plastic Machinery Corp. Method of coating polyethylene with saran. 3,031,332, 4–24–62, Cl. 117—47.
Rothbart, Arthur, to International Telephone and Telegraph Corp. Electromechanical delay device. 3,051,916, 8–28–62, Cl. 333—30.
Röthe, Ernst : *See*—
Johanson, Helmet, and Röthe. Re. 25,159.
Rothe, Paul-Gerhard, to Telefunken G.m.b.H. Wide frequency band recording and reproducing system. 3,037,091, 5–29–62, Cl. 179—100.2.
Rothenberg, Carl : *See*—
D'Agostino, Jack V., and Rothenberg. 3,016,534.
Rothenberg, Jerome H., and E. F. Wright, to Worthington Corp. Surge depressor. 3,066,701, 12–4–62, Cl. 138—30.
Rothenberger, Hansjorg. Manual apparatus for applying an adhesive tape over an edge. 3,027,292, 3–27–62, Cl. 156—468.
Rothenberger, Jakob. Automatic clothes washing machine. 3,030,789, 4–24–62, Cl. 68—12.
Rothenberger, Jakob. Washing machine with at least two horizontal drums. 3,035,430, 5–22–62, Cl. 68—27.
Rothenborg Specialmaskiner for Sy-Industrien A/S : *See*—
Hedegaard, Arne. 3,068,819.
Rothenmeyer, Robert H., to E. I. du Pont de Nemours and Co. Gear key. 3,028,811, 4–10–62, Cl. 103—4.
Rothery, Henry C. Apparatus for separating materials. 3,059,775, 10–23–62, Cl. 209—284.
Rothery, John L. : *See*—
Rosen, Leo, and Rothery. 3,031,651.
Rothfuss, John G. : *See*—
Mehler, Ralph G., and Rothfuss. 3,056,694.
Rothfuss, Neal B., to The Bendix Corp. Air pressure regulator 3,047,010, 7–31–62, Cl. 137—489.
Rothi, Raymond C. : *See*—
Kindlien, Gordon J., and Rothi. 3,061,059.
Rothman, Abe. Handbag and frame therefor. 3,060,968, 10–30–62, Cl. 150—29.
Rothmayer, Noel Y. : *See*—
Adams, Victor J., Jr., and Rothmayer. 3,049,868.
Rothrock, Clarence L., ½ to Cloverdale Plywood Co. Apparatus and method for the jogging and jointing of veneer. Re. 25,296, 12–11–62, Cl. 144—117.
Rothrock, John J. : *See*—
Leum, Leonard N., Connor, Rothrock, and Shipley. 3,041,270.
Rothrock, John W., and I. Putter, to Merck & Co., Inc. Kanamycin A separation process. 3,032,547, 5–1–62, Cl. 260—210.
Rothschild, Edgar. Article transporting means. 3,037,608, 6–5–62, Cl. 198—20.
Rothschild, Marjorie B. : *See*—
Marrinson, Ernestine L., and Rothschild. 3,015,834.
Rothvoss, Henry. Gate construction. 3,040,457, 6–26–62, Cl. 39—43.
Rothweiler, George A., G. C. Harrison, and J. S. Casement, to Minnesota Mining and Mfg. Co. Bonding of inert particles. 3,056,704, 10–2–62, Cl. 154—2.6.
Rotier, Donald J., to Minneapolis-Honeywell Regulator Co. Control apparatus. 3,019,382, 1–30–62, Cl. 323—89.
Rotier, Donald J., to Minneapolis-Honeywell Regulator Co. Maneuver limiting autopilot monitor. 3,051,416, 8–28–62, Cl. 244—77.
Rotier, Donald J., to Minneapolis-Honeywell Regulator Co. Automatic flight control apparatus for aircraft. 3,063,662, 11–13–62, Cl. 244—77.
Rotol Ltd. : *See*—
Chilman, John A. 3,017,932.
Chilman, John A., and Brooking. 3,024,848.
Elmes, Robert T., and Chilman. 3,040,817.
Strand, George F. 3,016,911.
Rototiller Inc. : *See*—
Duhamel, Francis R. J. 3,044,315.
Rototone, Inc. : *See*—
Santi, Harris H. Re. 25,217.
Santi, Harris H. 3,022,853.
Santi, Harris H. 3,057,430.
Rotow, Alexander A., to Radio Corp. of America. Image intensifier devices. 3,047,757, 7–31–62, Cl. 313—65.
Rotrekl, Otto, to Sdruzeni podniku textilniko strojirenstvi. Shredding means. 3,047,028, 7–31–62, Cl. 139—57.
Rotron Mfg. Co., Inc. : *See*—
Heller, Richard V. 3,029,870.
Knauth, Berthold A. 3,053,085.
Rotron Research Corp. : *See*—
Hubbard, Albert B. 3,063,287.
Rottig, Walter : *See*—
Vielstich, Wolf, Rottig, and Spengler. 3,019,088.
Rottig, Walter, to Ruhrchemie Aktiengesellschaft. Process for producing sulfur-containing polymers. 3,030,345, 4–17–62, Cl. 260—79.5.
Rottig, Walter, to Ruhrchemie Aktiengesellschaft. Process for the polymerization of aliphatic olefins. 3,067,190, 12–4–62, Cl. 260—94.9.
Rottmann, Hans-P., to Richard Hirschmann Radiotechnisches Werk. Connecting plug. 3,032,737, 5–1–62, Cl. 339—101.
Roubal, Alexander J., to Allis-Chalmers Mfg. Co. Screening device. 3,029,945, 4–17–62, Cl. 209—326.
Roubal, Alexander J., to Allis-Chalmers Mfg. Co. Screening device. 3,029,947, 4–17–62, Cl. 209—412.
Roubal, Alexander J., to Allis-Chalmers Mfg. Co. Resilient mount assembly. 3,030,098, 4–17–62, Cl. 267—1.
Roubal, Alexander J., to Allis-Chalmers Mfg. Co. Seal for rotating cylinders such as kilns and the like. 3,068,015, 12–11–62. Cl. 277—81.
Roubeau, Pierre M., J. M. Garin, and P. Prugne, to Commissariat a l'Energie Atomique. Valves for controlling gas streams flowing at very low flow rates. 3,022,038, 2–20–62, Cl. 251—11.
Rouby, Charles, to Societe Moderne De Fabrications Mecaniques. Firearm with electrically actuated firing means. 3,023,528, 3–6–62, Cl. 42—84.
Roucayrol, Jean-Claude, E. Obernausen, and R. Schussler, to Centre National de la Recherche Scientifique. Measurement of radioactivity emitting compounds. 3,017,510, 1–16–62, Cl. 250—71.5.
Roudabush, William J., Combined amphibious boat dock, mount and carrier. 3,065,721, 11–27–62, Cl. 114—.5.
Rouder, Henry N., to William Gluckin & Co., Inc. Container for packaging and displaying girdles. 3,057,462, 10–9–62, Cl. 206—7.
Rough, Robert R., and A. B. Swain, Jr., to Owens-Illinois Glass Co. Apparatus for mixing colorant in glass furnace forehearth. 3,057,175, 10–9–62, Cl. 65—178.
Roulements a Aiguilles, Societe Anonyme des : *See*—
Bouchard, Robert G., and Péras. 3,029,618.
Pitner, Alfred. 3,031,239.
Pitner, Alfred. 3,062,026.
Roulston, Laurence C., to Columbia Ribbon and Carbon Mfg. Co., Inc. Method of rendering transfer sheets resistant to curling and slipping and resultant article. 3,035,936, 5–22–62, Cl. 117—36.3.
Roumph, August : *See*—
Challenger, Ronald S., and Roumph. 3,053,746.
Rounds, Bruce C. Embossing register. 3,026,127, 3–20–62, Cl. 282—1.
Rounds, Fred G., to General Motors Corp. Lubricant additive. 3,053,241, 9–11–62, Cl. 184—1.
Rounsley, Ralph W. Purificator. 3,052,359, 9–4–62, Cl. 210—299.
Rounsley, Robert R. : *See*—
Boylan, David R., and Rounsley. 3,041,158.
Rouse, Ben P., Jr. : *See*—
Addleburg, John W., Lappin, and Rouse. 3,043,797.
Rouse, Calvin. Folding combination step ladder and stool. 3,059,722. 10–23–62, Cl. 182—33.
Rouse, William H., to Cutler-Hammer, Inc. Motor operated and overriding manual drive for rotatable shaft operated devices. 3,026,744, 3–27–62, Cl. 74—625.
Rousey, Donald L., to Leslie Welding Co., Inc. Adjustable flue cover. 3,049,068 8–14–62, Cl. 98—84.
Rousseau, Genevieve : *See*—
Vellu, Leon, Nomine, Pierdet, Rousseau, and Penasse. 3,065,140.
Rousseau, Jean J. Jack with lifting movement by wedging action and downward movement along a helicoidal guide. 3,066,914, 12–4–62, Cl. 254—105.
Rousseau, Maurice M. Method of manufacturing (brassiere) cups. 3,041,903, 7–3–62, Cl. 82—1.
Roussel, Louis J., to Universal Drilling Co. Inc. Hydraulic device for skids. 3,031,167, 4–24–62, Cl. 254—105.
Roussel, Philip A., to E. I. du Pont de Nemours and Co. Ozonolysis of polychloroprene. 3,049,523, 8–14–62, Cl. 260—92.3.
Roussel-UCLAF : *See*—
Ailais, Andre, Girault, and Vesterman. 3,056,721.
Amiard, Gaston, Goffinet, Heymes, Martel, and Velluz. 3,035,064.
Bertin, Daniel, and Nedelec. 3,056,778.
Muller, Georges, and Poitrevin. 3,061,636.
Nomine, Gerard, and Bucourt. 3,061,617.
Roussel-UCLAF, S.A. : *See*—
Allais, André, and Girault. 3,032,568.
Allais, Andre, and Girault. 3,058,992.
Allais, André, and Meier. 3,042,685.
Allais, Andre, and Meier. 3,056,727.
Amiard, Gaston, and Heymes. 3,033,863.
Amiard, Gaston, and Heymes. 3,052,697.
Bertin, Daniel. 3,054,812.
Bertin, Daniel, Locutelli, Mathieu, Muller, and Fritel. 3,052,675.
Couilliaud, Andre, and Racine. 3,037,041.
Farthouat, Jean-Marie. 3,038,926.
Girard, André. 3,048,586.
Hagemann, Guy, Nomine, Penasse, and Teillon. 3,052,-605.
Joly, Robert, and Bertin. 3,033,872.
Joly, Robert, and Bucourt. 3,040,078.
Joly, Robert, and Bucourt. 3,040,079.
Joly, Robert, and Bucourt. 3,040,103.
Joly, Robert, and Jolly. 3,062,848.
Joly, Robert, and Jolly. 3,067,196.
Joly, Robert, and Warnant. 3,037,034.

Roussel-UCLAF: *See*—Continued
Joly, Robert, and Warnant. 3,042,707.
Joly, Robert, Warnant, and Goffinet. 3,048,582.
Joly, Robert, Warnant, and Goffinet. 3,052,696.
Muller, Georges. 3,037,035.
Muller, Georges. 3,051,712.
Muller, Georges. 3,051,713.
Muller, Georges, Allais, and Velluz. 3,048,592.
Muller, Georges, and Bardoneschi. 3,037,021.
Muller, Georges, and Poittevin. 3,040,092.
Muller, Georges, Poittevin, and Bardoneschi. 3,040,093.
Muller, Georges, and Velluz. 3,032,563.
Muller, Georges, and Velluz. 3,067,217.
Nomine, Gerard. 3,037,020.
Nomine, Gerard. 3,047,615.
Nomine, Gerard, and Bertin. 3,050,550.
Nomine, Gerard, Bertin, and Bucourt. 3,055,884.
Nomine, Gerard, Bertin, Bucourt, and Pierdet. 3,055,885.
Nomine, Gerard, Fenet, and Fritel. 3,068,252.
Nomine, Gerard, Bertin, and Jolly. 3,032,567.
Nomine, Gerard, Bertin, and Vignau. 3,056,811.
Nomine, Gerard, and Bucourt. 3,069,421.
Nomine, Gerard, Bucourt, and Pierdet. 3,057,887.
Nomine, Gerard, Bucourt, and Vignau. 3,052,672.
Nomine, Gérard, and Penasse. 3,043,865.
Nomine, Gerard, and Penasse. 3,036,081.
Nomine, Gerard, and Penasse. 3,062,807.
Penau, Henry, and Hagemann. 3,042,581.
Velluz, Léon, Bertin, Pesez, and Berret. 3,068,071.
Velluz, Leon, Goffinet, Warnant, and Amiard. 3,066,154.
Velluz, Leon, Joly, Bucourt, and Fabignon. 3,052,708.
Velluz, Leon, Muller, and Allais. 3,047,578.
Velluz, Leon, Nomine, and Penasse. 3,033,750.
Velluz, Leon, Nomine, Pierdet, Rousseau, and Penasse. 3,065,140.
Routh, William E.: *See*—
Parmele, Harris B., Doyle, and Routh. 3,053,259.
Routien, John B.: *See*—
Celmer, Walter D., Murai, Routien, and Sobin. 3,021,-259.
Routsong, Richard W. Bridge devices for self administration of eye medicine. 3,058,466, 10–16–62, Cl. 128—233.
Rouviere, Roger: *See*—
Tiraspolsky, Wladimir, and Rouviere. 3,039,735.
Rouviere, Roger F.: *See*—
Tiraspolsky, Wladimir, and Rouviere. 3,055,440.
Tiraspolsky, Wladimir, and Rouviere. 3,058,510.
Rouzier, Michel M.: *See*—
Lucas, Pierre M., and Rouzier. 3,065,458.
Rovang, Wallace G., and A. F. Laurle. Sealed gate valve. 3,033,517, 5–8–62, Cl. 251—214.
Rovenger, Harry M.: *See*—
Bottinelli, Norman E., and Rovenger. 3,048,875.
Rover Co. Ltd., The: *See*—
Crowther, Philip A. T., and Swaine. 3,039,445.
Gawronski, Tadeusz L. 3,028,174.
Sutton, Douglas L. 3,044,454.
Rovin, Herman, to United States of America, Navy. Timer device. 3,052,162, 9–4–62, Cl. 89—6.5.
Rowan, Hartley D., and J. M. Coughlin, to General Electric Co. Electric lamp mount making apparatus. 3,033,242, 5–8–62, Cl. 140—71.6.
Rowan, Preston D.: *See*—
Lewis, Jay L., and Rowan. 3,055,671.
Rowand, Will H., to The Babcock & Wilcox Co. Steam generating and superheating unit. 3,020,894, 2–13–62, Cl. 122—39.
Rowbotham, William R.: *See*—
Christie, Reginald A., and Rowbotham. 3,043,074.
Rowbottom, Jack: *See*—
Kremer, Vincent W., and Rowbottom. 3,053,881.
Rowe, Bartholomew M., 25% to C. W. Howard. Method of making artificial stone. 3,058,164, 10–16–62, Cl. 18—48.8.
Rowe, Brian H., to General Electric Co. Cruise lift-fan system. 3,033,492, 5–8–62, Cl. 244—23.
Rowe, Brian H., to General Electric Co. VTOL aircraft. 3,038,683, 6–12–62, Cl. 244—12.
Rowe, Brian H., to General Electric Co. Sealing mechanism. 3,042,364, 7–3–62, Cl. 253—39.
Rowe, Brian H., and A. H. MacKay, Jr., to General Electric Co. Turbine stator construction. 3,056,582, 10–2–62, Cl. 253—78.
Rowe, Carl B.: *See*—
Hambrecht, Albert H., Bartels, Insenring, and Rowe. 3,017,698.
Onstad, Ragnar E., Shoemaker, Frohmader, and Rowe. 3,021,827.
Rowe, Carl H., to Kimberly-Clark Corp. Manufacture of cellulosic products. 3,036,344, 5–29–62, Cl. 19—144.5.
Rowe, Donald C., to Boeing Airplane Co. Apparatus for brazing and heat treating honeycomb sandwich structures. 3,047,710, 7–31–62, Cl. 219—85.
Rowe, Earl R. Shop fabricated vertical plank constructions. 3,059,286, 10–23–62, Cl. 20—4.
Rowe, Eugene C.: *See*—
Steinel, Edwin H., Rowe, and Sinn. 3,032,634.
Rowe, Eugene C., R. W. Sinn, and E. H. Steinel, to Color Corp. of America. Liquid dispenser. 3,055,557, 9–25–62, Cl. 222—227.
Rowe, Eugene C., R. W. Sinn, and E. H. Steinel, to Color Corp. of America. Metering, dispensing and agitating unit for liquids. 3,055,558, 9–25–62, Cl. 222—233.
Rowe, Harrison E., to Bell Telephone Laboratories, Inc. Timing wave generator. 3,057,959, 10–9–62, Cl. 178—70.
Rowe, James G. III: *See*—
Streib, William C., and Rowe. 3,055,434.
Rowe Machinery & Mfg. Co., Inc.: *See*—
Edmonds, John R. 3,048,347.
Rowe Mfg. Co., Inc.: *See*—
Gabrielsen, Christian, Vorperian, and Sukovich. 3,019,-941.
Katz, Peter, Koch, and Fischer. 3,033,631.
Krakauer, Merrill, and Ambrose. 3,058,613.
Krakauer, Merrill, Katz, and Fischer. 3,055,544.
Tamm, Emil S. 3,033,249.
Rowe, Mark R.: *See*—
Kripke, Joseph B., Rowe, and Brendemuehl. 3,055,993.
McCathron, Claude B., Rowe, and Zeisloft. 3,062,310.
Rowe, Omar F. Refuse container rack with lid lifting and retaining means. 3,064,931, 11–20–62, Cl. 248—147.
Rowe, Raymond L., to General Electric Co. Electricity distributing conduit apparatus. 3,018,320, 1–23–62, Cl. 174—99.
Rowe, Richard, to Victor Wolf, Ltd. Manufacture of polymeric acids. 3,059,003, 10–16–62, Cl. 260—407.
Rowe, Robert G. Method and apparatus for damped wave analysis. 3,019,387, 1–30–62, Cl. 324—68.
Rowe, Robert G. Vibration apparatus for testing articles. 3,059,468, 10–23–62, Cl. 73—67.2.
Rowe, Robert J.: *See*—
Nixon, Cleveland F., and Rowe. 3,024,134.
Rowe, Robert J. Dynamoelectric machine and governor. 3,020,465, 2–6–62, Cl. 318—325.
Rowe, Robert S. Mortar base plate. 3,046,843, 7–31–62, Cl. 89—37.
Rowe, Thomas H., J. P. Hammer, and C. J. Kennedy, to International Business Machines Corp. Transfer mechanism for storage devices. 3,046,528, 7–24–62, Cl. 340—172.5.
Rowe, Walter C.: *See*—
Koch, Robert C., and Rowe. 3,038,515.
Koch, Robert C., and Rowe. 3,038,829.
Rowe, William D., to Westinghouse Electric Corp. Binary counter with isolation means between flip-flop stages. 3,018,388, 1–23–62, Cl. 307—88.5.
Rowe, William D., to Westinghouse Electric Corp. Nor logic circuit having delayed switching and employing zener diode clamp. 3,032,664, 5–1–62, Cl. 307—88.5.
Rowe, William E., to Mycalex Corp. of America. Method of coating metal on dielectric material. 3,020,156, 2–6–62, Cl. 96—35.
Rowekamp, Edward F.: *See*—
McHugh, Charles J., Jr., and Rowekamp. 3,032,798.
Rowell, Douglas W., to Anaconda American Brass Co. Tube pointer. 3,068,929, 12–18–62, Cl. 153—34.
Rowell, Victor M.: *See*—
Steinmueller, Ralph E., and Rowell. 3,050,992.
Rowell, William G., to Scully Signal Co. Safety switch method and mechanism for tank truck vehicles. 3,026,004, 3–20–62, Cl. 222—30.
Rowen, Harold E., to McDowell Co., Inc. Pelletizing apparatus. 3,040,375, 6–26–62, Cl. 18—1.
Rowen, John W., and J. B. Rust, to Hughes Aircraft Co. Method for impregnating a dried plastic material. 3,057,-754, 10–9–62, Cl. 117—138.8.
Rowenta Metallwarenfabrik G.m.b.H.: *See*—
Heuckeroth, Curt. 3,031,947.
Rowitz, Joseph. Slack take-up device. 3,021,580, 2–20–62, Cl. 24—71.3.
Rowland, Charles S., and F. and A. Varron, to Interchemical Corp. High gloss printing inks. 3,028,349, 4–3–62, Cl. 260—24.
Rowland, Douglas H. Hydraulic squeezing and drilling device. 3,015,361, 1–2–62, Cl. 166—101.
Rowland, Gerald: *See*—
Peregrine, Edgar P., and Rowland. 3,040,591.
Rowland, Harry E.: *See*—
Biermann, William A., and Rowland. 3,064,103.
Rowland, Howard J., to D. S. Kennedy & Co. Transition device. 3,023,381, 2–27–62, Cl. 333—33.
Rowland, Stanley P.: *See*—
Frank, Charles E., and Rowland. 3,061,582.
Greenberg, Harry, and Rowland. 3,067,178.
Rowland, Stanley P., to National Distillers and Chemical Corp. 2,5,dialkyl-2,5-diphenyl-adipic acid. 3,067,245, 12–4–61, Cl. 260—515.
Rowland, Stanley P., and R. G. White, to Rohm & Haas Co. Polyvinyl halides plasticized with epoxidized esters of higher fatty acids containing pairs of acyloxy groups. 3,051,672, 8–28–62, Cl. 260—23.
Rowland, Stanley P., and M. F. Maringer, to National Distillers and Chemical Corp. Vinyl modification of branched chain polyamides. 3,061,581, 10–30–62, Cl. 260—45.5.
Rowland, Stanley P., and M. F. Maringer, to National Distillers and Chemical Corp. Diallyl 2,5-diphenyladipate and compositions prepared therefrom. 3,062,769, 11–6–62, Cl. 260—31.8.
Rowland, Thomas B. Head and neck rest. 3,062,586, 11–6–62, Cl. 297—399.
Rowlands, Tom: *See*—
Molins, Desmond W., and Rowlands. 3,059,651.
Molins, Desmond W., Rowlands, and Rakowicz. 3,062,-588.
Rowlands, Tom, to Molins Machine Co. Ltd. Manufacture of mouthpiece cigarettes. 3,052,164, 9–4–62, Cl. 93—1.

Rowles, Harwood S., Jr., to Baxter Laboratories, Inc. Method of sterilization. 3,058,799, 10–16–62, Cl. 21—56.

Rowles, William T., to Universal Button Co. Hook. 3,016,593, 1–16–62, Cl. 24—227.

Rowlett, Willard A. Ball stud assembly. 3,030,133, 4–17–62, Cl. 287—88.

Rowlett, Willard A. Combination coupling and sleeve bearing. 3,030,136, 4–17–62, Cl. 287—93.

Rowley, Benjamin W., to Chance Engineering Co. Cutting tool. 3,022,686, 2–27–62, Cl. 77—73.5.

Rowley, David S., to Jersey Production Research Co. Bottom-home turbogenerator drilling unit. 3,036,645, 5–29–62, Cl. 175—93.

Rowley, Edward K., and D. C. West, to Canadian Industries Ltd. Multi-speed precision gear box. 3,051,018, 8–28–62, Cl. 74—681.

Rowley, Ellis C. Mount for photographs. 3,024,553, 3–13–62, Cl. 40—158.

Rowley, Geoffrey C., to A. V. Roe & Co., Ltd. Electrical counting. 3,017,093, 1–16–62, Cl. 235—155.

Rowley, Martin E.: *See*—
Mench, John W., Emerson, and Rowley. 3,022,287.

Rowley, Robert J., to Collins Radio Co. Disk type turret tuner. 3,064,216, 11–13–62, Cl. 334—49.

Rowley, Robert L., to United Aircraft Corp. Rotor construction. 3,034,763, 5–15–62, Cl. 253—77.

Rowley, Russell A., F. V. Adams, and J. F. Gaffney, to International Business Machines Corp. Statistical analyzing system. 3,021,069, 2–13–62, Cl. 235—168.

Rowley, Russell A., F. V. Adams, and J. F. Gaffney, to International Business Machines Corp. Character group recognition system. 3,046,527, 7–24–62, Cl. 340—167.

Rowntree Co. Ltd., The: *See*—
Robertson, Douglas. 3,028,947.

Rowse, James A., to The New England Vinegar Works, Inc. Production of apple juice and vinegar stock. 3,042,528, 7–3–62, Cl. 99—105.

Rowse, Robert A., and C. P. Stinchfield, to Norton Co. Phenolic resin bonded grinding wheels. 3,041,156, 6–26–62, Cl. 51—298.

Roxberry, Richard C., to McGraw-Edison Co. Fire detection system. 3,041,458, 6–26–62, Cl. 250—83.3.

Roxburgh, Albert, and A. Leigh, to The British Thomson-Houston Co. Ltd. Air or gas blast electric circuit breakers. 3,017,482, 1–16–62, Cl. 200—148.

Roxburgh, Albert A. Leigh, and J. Fellerman, to Associated Electrical Industries (Ruby) Ltd. Air or gas blast electric circuit breakers. 3,069,521, 12–18–62, Cl. 200—148.

Roxbury Carpet Co.: *See*—
Ammerall, Peter. 3,045,710.

Roy, Amedee: *See*—
Jomlny, Walter E., and Roy. 3,059,326.

Roy, George L., ½, jointly to J. H. Cross and R. Cross and ½, jointly to J. J. Soares and V. Soares. Method and apparatus for proportionately feeding a textile treating composition to steam flowing through a conduit. 3,023,759, 3–6–62, Cl. 137—3.

Roy, Gerald E.: *See*—
Lay, Robert, Paul, and Roy. 3,050,658.

Roy, Grover D.: *See*—
Overholt, Donald C., and Roy. 3,031,463.

Roy, Herman T., to The General Tire and Rubber Co. Solid composite propellant composition and method of preparation. 3,070,471, 12–25–62, Cl. 149—20.

Roy, James W.: *See*—
Morrissey, William J., and Roy. 3,022,180.

Roy, Milton, Co.: *See*—
Schneider, George W., Jr. 3,030,192.
Shaffer, George E., Jr., and Schneider. 3,015,544.
Sheen, Robert T. 3,028,225.

Royal Appliance Mfg. Co.: *See*—
Kasper, Elmer J. 3,066,345.

Royal Jet Division of Royal Industries, Inc.: *See*—
Koelsch, Emery F., and Gravlin. 3,025,995.

Royal, John G.: *See*—
Hord, Alsie O., and Royal. 3,023,468.

Royal McBee Corp.: *See*—
Arthur, Ronald H. 3,068,985.
Brann, Edward J. 3,042,176.
Cetran, Louis. 3,026,986.
Cetran, Louis, Arthur, and Holland. 3,019,881.
Cook, Charles B., Jr., and Schwarz. 3,034,918.
D'Onofrio, Anthony. 3,017,980.
D'Onofrio, Anthony. 3,020,996.
Enders, John A. 3,021,934.
Feiertag, Arthur W. 3,066,565.
Frechette, Leo P., Jr., McGrath, Charboneau, and Wheeler. 3,038,582.
Hoffman, Ernest G. 3,017,979.
Lambert, Harry L. 3,021,936.
Lambert, Harry L., and Page. 3,018,870.
Lambert, Harry L., and Page. 3,045,798.
Lapointe, Donald H. 3,024,983.
Lapointe, Lloyd J., and Parker. 3,049,019.
Lerner, Irwin S., and Kissner. 3,034,114.
Mantell, Stanley, and Gilbert. 3,033,358.
Page, Paul F. 3,028,942.
Perez, Guillermo. 3,036,474.
Perez, Guillermo. 3,058,362.
Reynard, John M. 3,029,921.
Reynard, John M. 3,032,168.
Ryan, William P. 3,032,165.

Royal McBee Corp.: *See*—Continued
Ryan, William P., and Cetran. 3,038,578.
Ryan, William P., and Parker. 3,038,577.
Schulz, Herman R. 3,017,978.
Scribner, Albert W. 3,019,966.
Scribner, Albert W. 3,045,796.
Von Kummer, Ferdinand G. 3,021,063.
Wheeler, Reynold E. 3,025,940.
Williams, Olin P. 3,031,057.

Royalmetal Corp.: *See*—
Rosenquist, Paul A., and Yaegle. 3,063,773.

Royal-Texas, Inc.: *See*—
Stevens, William A. 3,042,355.

Royce, Harry C., Jr.: *See*—
Deschenes, Paul L., and Royce. 3,039,176.

Royder, Thomas H.: *See*—
Dudley, Arthur R., Royder, and Allison. 3,043,431.

Royer, George H., to Westinghouse Electric Corp. Switching apparatus comprising plural base hyperconductive transistors. 3,024,369, 3–6–62, Cl. 307—88.5.

Royer, Otto O.: *See*—
Detrich, Keith R., and Wagner. 3,037,288.

Royer, Stanley H.: *See*—
Lobosco, Roscoe R., Royer, and Miller. 3,037,888.

Royle, Joseph K., to National Research Development Corp. Hydraulic pressure control valve. 3,016,064, 1–9–62, Cl. 137—620.

Royle, Joseph K., to National Research Development Corp. Servo-controlled drive for machine tools and the like. 3,027,702, 4–3–62, Cl. 60—6.

Royle, Joseph K., to National Research Development Corp. Hydrostatic bearing. 3,062,593, 11–6–62, Cl. 308—9.

Royle, Joseph K., and B. D. Nellist, to National Research Development Corp. Duplex driving mechanism. 3,039,579, 6–19–62, Cl. 192—143.

Royllyn, Inc.: *See*—
Collar, Rolland W. 3,023,029.

Royse, Edwin H. Moisture condenser. 3,050,954, 8–28–62, Cl. 62—139.

Royston, Marvin F., to Bell & Howell Co. Signal pattern controlled machines. 3,065,578, 11–27–62, Cl. 51—165.

Rozak, Stanley R. Tilling hoe for tractors. 3,066,747, 12–4–62, Cl. 172—305.

Rozek, Edward G. Tarpaulin ventilator. 3,024,717, 3–13–62, Cl. 98—37.

Rozelle, Roy L.: *See*—
Dahlman, Herbert C., Rozelle, and Amos. 3,039,577.

Rozmus, Walter J.: *See*—
Zysk, Stanley A., and Rozmus. 3,026,603.

Rozsa, Tibor A.: *See*—
Kosa, Tibor, Rozsa, and Holmes. 3,067,959.

Rozsa, Tibor A., and R. O. Holmes, to The Microcyclomat Co. Vertical feed centripetal classifier. 3,015,392, 1–2–62, Cl. 209—144.

Rozsa, Tibor A., and R. O. Holmes, to The Microcyclomat Co. Centripetal classifier rotor deck selector. 3,015,393, 1–2–62, Cl. 209—144.

Rozycki, Irene R. Bacteriological handling apparatus. 3,067,016, 12–4–62, Cl. 23—259.

Rua and Swendsen, Inc.: *See*—
McAvoy, Robert W. 3,043,243.

Rubber & Fibre Chemical Corp.: *See*—
Gunther, Arnold. 3,048,218.

Rubbermaid Inc.: *See*—
Casey, John E., and Hobbs. 3,038,609.

Rubber Products, Inc.: *See*—
Horning, Oliver. 3,021,837.

Rubbra, Arthur A., to Rolls-Royce Ltd. Gas-turbine engine with controllable air tapping means. 3,031,128, 4–24–62, Cl. 230—116.

Ruben, Henning, to Hesse, Holger. Artificial human body form for demonstrating reviving of unconscious persons. 3,049,811, 8–21–62, Cl. 35—17.

Ruben, Paul L., and G. F. Ziegler, to Bausch & Lomb Inc. Objective for microscope. 3,041,934, 7–3–62, Cl. 88—57.

Ruben, Samuel. Primary dry cell. 3,048,645, 8–7–62, Cl. 136—100.

Ruben, Samuel. Electric current producing cell. 3,066,179, 11–27–62, Cl. 136—83.

Rubens, Gerald E. Adjustable mounting apparatus. 3,018,774, 1–30–62, Cl. 126—202.

Rubens, Harry S., to Engelhard Hanovia, Inc. Explosion-proof physician's lamp. 3,042,797, 7–3–62, Cl. 240—59.

Rubens, Louis C.: *See*—
Skochdopole, Richard E., Rubens, and Jones. 3,062,729.

Rubens, Louis C., and E. F. Engles, to The Dow Chemical Co. Process for making light-foaming thermoplastic polymer compositions. 3,026,272, 3–20–62, Cl. 260—2.5.

Rubens, Louis C., and J. S. Warren, to The Dow Chemical Co. Latent-foaming vinyl aromatic resin composition containing tetramethylsilane as blowing agent. 3,033,805, 5–8–62, Cl. 260—2.5.

Rubens, Louis C., J. D. Griffin, and D. Urchick, to The Dow Chemical Co. Process of foaming and extruding polyethylene using 1,2-dichlorotetrafluoroethane as the foaming agent. 3,067,147, 12–4–62, Cl. 260—2.5.

Rubens, Sidney M., and G. White. Acoustic impedance detecting apparatus. 3,017,607, 1–16–62, Cl. 340—5.

Rubens, Sidney M., and T. D. Rossing, to Sperry Rand Corp. Magnetic apparatus and methods. 3,030,612, 4–17–62, Cl. 340—174.

Rubenson, Joseph G.: *See*—
Miles, Raymond C., and Rubenson. 3,049,978.
Rubenstein, Harry J. Supporting structure for display racks. 3,037,640, 6–5–62, Cl. 211—86.
Rubenstein, J., & Sons: *See*—
Handzel, Edward. 3,059,390.
Rubenstein, Jacob H. Metering apparatus. 3,040,577, 6–26–62, Cl. 73—228.
Ruberoid Co., The: *See*—
Bettoli, Phillip S., and Eckert. 3,027,294.
Rubery Owen & Co. Ltd.: *See*—
Tuplin, William A., Gwinnett, and Jenkins. 3,066,917.
Rubico, Jerome A.: *See*—
Batchelder, Charles F., and Rubico. 3,027,578.
Batchelder, Charles F., and Rubico. 3,027,579.
Rubico, Jerome A., to Batchelder Rubico, Inc. Goodyear welt inseam sewing and cutting guide. 3,064,597, 11–20–62, Cl. 112—46.
Rubico, Jerome A., to Batchelder Rubico, Inc. Adjustable welt guide. 3,064,598, 11–20–62, Cl. 112—52.
Rubin, Abraham M. Circular chart assembly. 3,021,614, 2–20–62, Cl. 35—24.
Rubin, Arnold D., and R. M. Elfin. Tracked accordion window shade. 3,055,419, 9–25–62, Cl. 160—84.
Rubin, George: *See*—
Irmiter, Theodore F., and Rubin. 3,027,264.
Rubin, George H. Snow throwers. 3,065,555, 11–27–62, Cl. 37—43.
Rubin, Gottfried A., to Union Carbide Corp. Aluminum-resistant refractory material. 3,067,146, 12–4–62, Cl. 252—520.
Rubin, Harry, & Sons Inc.: *See*—
Rubin, Leonard R. 3,015,811.
Rubin, Herbert: *See*—
Hesketh, James A., and Rubin. 3,040,341.
Rubin, Leon R.: *See*—
Drell, Leonard B., and Rubin. 3,038,816.
Rubin, Leonard R., to Harry Rubin & Sons Inc. Portable fire alarm unit. 3,015,811, 1–2–62, Cl. 340—227.
Rubin, Martin, to Advance Growth Capital Corp. Animal feed product. 3,069,269, 12–18–62, Cl. 99—2.
Rubin, Martin, and M. Dexter, to Geigy Chemical Corp. Trisodium calcium diethylenetriaminepentaacetic acid, compositions containing the same, and the use thereof. 3,026,719, 11–6–62, Cl. 167—68.
Rubin, Maurice, to Societe d'Études Chimiques pour l'Industrie et l'Agriculture. Preparation of alkylammonium sulfate solutions. 3,022,348, 2–20–62, Cl. 260—583.
Rubin, Milton D., to United States of America, Air Force. Automatic range tracking. 3,041,602, 6–26–62, Cl. 343—7.3.
Rubin, Morris M., and D. G. Wong. Garment hanger. 3,054,-538, 9–18–62, Cl. 223—88.
Rubin, Sidney, and G. Weiss. Belt buckles. 3,063,117, 11–13–62, Cl. 24—178.
Rubinowitz, Leo: *See*—
Ehrsam, George W., Jr., Rubinowitz, and Silver. 3,064,-552.
Rubinstein, Harvey: *See*—
Meyer, Maurice A., Ostroff, and Rubinstein. 3,032,748.
Rubinstein, Harvey, and L. Knight, to Laboratory for Electronics, Inc. Magnetic amplifiers. 3,048,706, 8–7–62, Cl. 307—88.
Rubinstein, Kurt: *See*—
Ifversen, Else N., Rubinstein, and Skagius. 3,025,303.
Rubinstein, Solomon, O. G. Garner, and G. S. Eager, Jr., to General Cable Corp. Combination power and communication cable. 3,023,267, 2–27–62, Cl. 174—115.
Rubinsky, Stanley: *See*—
Kirshenbaum, David, and Rubinsky. 3,060,555.
Rubissow, George A., to Industrial Development Co. Establishment. Apparatus for producing fibers from mineral materials. 3,060,493, 10–30–62, Cl. 18—2.6.
Ruble, Robert H., to The Bendix Corp. I.D. and O.D. limit gage. 3,050,861, 8–28–62, Cl. 33—178.
Ruble, Robert H., to The Bendix Corp. Sleeve puller. 3,055,-093, 9–25–62, Cl. 29—265.
Ruble, Theodore A.: *See*—
Eastman, Burton F., Jr., and Ruble. 3,033,651.
Ruby, Burton B., to Jaymar-Ruby, Inc. Garment waistband construction. 3,027,566, 4–3–62, Cl. 2—237.
Ruby, Harold W. Portable cement silo. 3,029,958, 4–17–62, Cl. 214—2.
Ruch, David E.: *See*—
Vogel, Alvin R., Ruch, and Bagby. 3,015,702.
Ruchser, Erich, to E. Herion. Pressure control mechanism. 3,059,621, 10–23–62, Cl. 121—38.
Rüchser, Erich, to E. Herion. Safety control mechanism for pressure circuits. 3,068,897, 12–18–62, Cl. 137—620.
Ruck, George E.: *See*—
Posten, Carl F., and Ruck. 3,040,867.
Ruck, George W., and A. S. Wheelbarger, to Rockwell Mfg. Co. Zero reset register. 3,024,987, 3–13–62, Cl. 235—144.
Ruckelshaus, John G. Ignition system. 3,032,683, 5–1–62, Cl. 315—180.
Ruckelshaus, John G. Fixed resistor. 3,052,862, 9–4–62, Cl. 338—258
Ruckelshaus, John G. Potentiometer (variable resistor). 3,059,197, 10–16–62, Cl. 338—143.
Rucker, Richard A. Electric toy cannon. 3,022,597, 2–27–62, Cl. 42—55.
Rucks, Walter H., to Fairchild Stratos Corp. Control valve assembly. 3,039,486, 6–19–62, Cl. 137—489.
Rud, Osberghaus: *See*—
Grassau, Franz. 3,052,979.
Rudatis, Domenico A. Color television system. 3,053,931, 9–11–62, Cl. 178—5.2.
Rudbarg, Frank, to American Viscose Corp. Tow packaging plaiter. 3,021,587, 2–20–62, Cl. 28—21.
Rudd, Alexander H., to The Babcock & Wilcox Co. Vapor generator. 3,060,903, 10–30–62, Cl. 122—235.
Rudd, Hilton A., Sr. Air hose nozzle attachment. 3,045,930, 7–24–62, Cl. 239—579.
Rudd, Joseph H. Dairy barn feeder. 3,034,688, 5–15–62, Cl. 222—330.
Rudd, Richard E.: *See*—
Reed, Charles A., and Rudd. 3,044,567.
Rudd, Wallace C., to American Machine & Foundry Co. Welding of lengths of tubing. Re. 25,183, 6–12–62, Cl. 219—67.
Rudduck, Earl. Golf score register. 3,030,016, 4–17–62, Cl. 235—114.
Ruddy, Gerald. Foldable cradle. 3,049,727, 8–21–62, Cl. 5—99.
Ruddy, James, and A. McDonald, to William Fulton & Sons Ltd. Apparatus for guiding a web of textile or other material. 3,028,062, 4–3–62, Cl. 226—109.
Rudelick, John, to Bruner Corp. Fluid flow control system. 3,049,239, 8–14–62 Cl. 210—275.
Rudelick, John, to Bruner Corp. Brine making and dispensing device. 3,058,816, 10–16–62, Cl. 25—267.
Ruden, Joseph L. Writing implement. 3,070,069, 12–25–62, Cl. 120—42.03.
Rudin, Donald O.: *See*—
Eisenman, George, Rudin, and Casby. 3,041,252.
Rudin, Walter: *See*—
Bloom, Frederick S., and Rudin. 3,022,815.
Rudisch, Walter E., to The Bendix Corp. Clutch. Re. 25,299, 12–11–62, Cl. 192—84.
Rudisch, Walter E., to The Bendix Corp. Couple. 3,028,737, 4–10–62, Cl. 64—30.
Rudkin, Henry A., Jr. Piston design. 3,066,002, 11–27–62, Cl. 309—9.
Rudman, Frank A.: *See*—
Laurent, Milton P. 3,054,173.
Rudner, Bernard, to W. R. Grace & Co. Polymeric hydrazinium salts. 3,036,998, 5–29–62, Cl. 260—77.5.
Rudner, Bernard, to W. R. Grace & Co. Surfactant hydrazinium salts. 3,070,600, 12–25–62, Cl. 260—247.2.
Rudner, Bernard, and M. S. Moores, to Koppers Co., Inc. Alkylene-bis-boracycloctoanes. 3,030,405, 4–17–62, Cl. 260—462.
Rudner, Bernard, and M. S. Moores, to Koppers Co., Inc. Boracycloctane condensation polymers. 3,042,636, 7–3–62, Cl. 260—9.
Rudner, Bernard, R. A. Bafford, and A. G. Prapas, to W. R. Grace & Co. Aromatic aminoalkyl-hydrazinium compounds. 3,058,982, 10–16–62, Cl. 260—256.4.
Rudness, Robert G., to Union Carbide Corp. Method of making articles having internal surface of desired contour and articles produced thereby. 3,048,060, 8–7–62, Cl. 76—107.
Rudnick, Benjamin: *See*—
Rudnick, Jack. 3,030,655.
Rudnick, Jack, to himself and R. Rudnick. Door pivot means. 3,030,655, 4–24–62, Cl. 16—151.
Rudnick, Paul, and R. K. Orthuber, to International Telephone and Telegraph Corp. Electron discharge device. 3,040,177, 6–19–62, Cl. 250—213.
Rudo Associates: *See*—
Rudolph, Walter H., and Pearlman. 3,030,483.
Rudolf, John J., Jr., and R. L. Fillmore, to Minneapolis-Honeywell Regulator Co. Automatic lathe control. 3,039,-035, 6–12–62, Cl. 318—162.
Rudolfi, Gino A. Assembly line apparatus. 3,040,675, 6–26–62, Cl. 104—118.
Rudolph, George, to General Electric Co. Circuit protective apparatus. 3,031,601, 4–24–62, Cl. 317—46.
Rudolph, Hans, to Siemens & Halske Aktiengesellschaft. Teleprinter signal transmission apparatus. 3,040,122, 6–19–62, Cl. 178—2.
Rudolph, Hans. Valve for use in respiratory and similar equipment. 3,063,461, 11–13–62, Cl. 137—64.
Rudolph, Robert R., ½ to J. Metzger and ¼ to W. H. Anderson. Humidifier. 3,035,145, 5–15–62, Cl. 219—38.
Rudolph, Robert W., to Jefferson Electric Co., Inc. Cord storage device. 3,021,087, 2–13–62, Cl. 242—85.1.
Rudolph, Walter H., and M. Pearlman, to Rudo Associates. Pellet heater. 3,030,483, 4–17–62, Cl. 219—19.
Rudomanski, Andrew C., and R. D. De Waard, to Barnes Engineering Co. System for measurement of air temperature at ground level. 3,058,346, 10–16–62, Cl. 73—355.
Rudorf, Sigurd K., to A. O. Smith Corp. Strip feeding means. 3,058,024, 10–9–62, Cl. 314—78.
Rudow, Henry and M., to Lockfast Mfg. Co., Inc. Metallic slide assembly for extension tables. 3,042,468, 7–3–62, Cl. 311—71.
Rudow Maurice: *See*—
Rudow, Henry and M. 3,042,468.
Rudszinat, Willy: *See*—
Schubert, Bernhard, and Rudszinat. 3,036,733.
Rudszinat, Willy, to Hauni-Werke Korber & Co. K.G. Device for wrapping a connecting band around rod-shaped articles, such as axially aligned filter bodies and cigarettes. 3,039,-373, 6–19–62, Cl. 93—77.
Rudszinat, Willy, to Hauni-Werke Korber & Co., K.G. Device for transferring rod-shaped articles. 3,058,568, 10–16–62, Cl. 198—25.

Rudy, Charles E., to Continental Aviation and Engineering Corp. Ice removing apparatus. 3,053,460, 9–11–62, Cl. 239—407.

Rudy, Hermann, and F. Krueger, to Joh. A. Benckiser, G.m.b.H. Chemische Fabrik. Therapeutically valuable compounds and process of producing same. 3,037,015, 5–29–62, Cl. 260—211.

Rudy, Hermann, and K. Schuster, to Hagan Chemical & Controls, Inc. Method and composition for prevention of deposition of metal ions in alkaline medium and for dyeing. 3,055,726, 9–25–62, Cl. 8—52.

Rudy, Thomas P., to Shell Oil Co. Thermal insulated combustion chambers. 3,019,277, 1–30–62, Cl. 123—191.

Rudy, Thomas P., to Shell Oil Co. Thermal insulated combustion chambers. 3,066,663, 12–4–62, Cl. 123—191.

Rue, Charles V., to Erie Resistor Corp. Substitution type TiO_2 semi-conductors. 3,033,907, 5–8–62, Cl. 136—5.

Rue, Sigurd O., to Ethyl Corp. Stabilized hydrocarbon fuels and lubricants. 3,052,529, 9–4–62, Cl. 44—66.

Rueb, Theodore O., to The Sherman Klove Co. Universal joint. 3,045,454, 7–24–62, Cl. 64—17.

Rueckert, Dean E., to Swift & Co. Apparatus for applying protective covers to adhesive tape. 3,051,222, 8–28–62, Cl. 156—459.

Rueckert, Dean E., and C. J. Lind, to Swift & Co. Packaging in plastic film. 3,020,686, 2–13–62, Cl. 53—22.

Rued, Fred H., to Baldwin-Lima-Hamilton Corp. Weight adjuster for a balancer. 3,043,146, 7–10–62, Cl. 73—487.

Ruef, Lloyd M., and W. Lockett, Jr., to Esso Research and Engineering Co. Simplified hydrofining process. 3,066,093, 11–27–62, Cl. 208—212.

Rueff, Robert C.: *See*—
Sander, Benjamin, and Rueff. 3,034,172.

Rueger, Herman: *See*—
Hammell, Kemper M., and Rueger. 3,068,376.

Rueger, Herman, to Hamilton Watch Co. Hairspring stud. 3,016,688, 1–16–62, Cl. 58—115.

Rueger, Herman, to Hamilton Watch Co. Watch contact post. 3,040,150, 6–19–62, Cl. 200—166.

Ruegg, Ernst, to Escher Wyss Aktiengesellschaft. Screen lining for a push-type centrifuge. 3,049,241, 8–14–62, Cl. 210—376.

Ruegg, Fillmer W.: *See*—
Duncan, Richard L., Miller, Caldwell, Ruegg, and Flock. 3,016,704.

Ruegg, Rudolf: *See*—
Isler, Otto, Montavon, Ruegg, and Zeller. 3,015,680.
Isler, Otto, Ruegg, and Saucy. 3,047,634.
Isler, Otto, Ruegg, and Schwieter. 3,043,863.
Liechti, Hans W., and Ruegg. 3,057,845.

Ruehrwein, Robert A.: *See*—
White, William A., and Ruehrwein. 3,029,296.
Williams, Forrest V., Ruehrwein, and Hill. 3,022,452.
Williams, Forrest V., Ruehrwein, and Hill. 3,054,936.

Ruehrwein, Robert A., to United States of America, Army. Method of making ozone. 3,062,730, 11–6–62, Cl. 204—176.

Ruehrwein, Robert A., to Monsanto Chemical Co. Tunnel diode. 3,069,644, 12–18–62, Cl. 317—234.

Ruekberg, Herbert S., and A. J. Simon, to Continental Can Co., Inc. Plastic article machine. 3,025,561, 3–20–62, Cl. 18—5.

Ruelle, Louis: *See*—
Perieres, Rene, and Ruelle. 3,025,333.

Ruelle, Louis, and F. Mathieu, to Pechiney, Compagnie de Produits Chimiques et Electrometallurgiques. Vaporization apparatus. 3,025,043, 3–13–62, Cl. 263—30.

Ruesch, Leo: *See*—
Renz, Jany, Bourquin, Griot, Ruesch, and Schwarb. 3,055,903.
Renz, Jany, Bourquin, Griot, Schwarb, and Ruesch. 3,055,888.

Ruetman, Sven H.: *See*—
Reynolds, Richard J., and Ruetman. 3,047,552.

Ruetschi, Paul, to The Electric Storage Battery Co. Fuel cells and their electrodes. 3,020,327, 2–6–62, Cl. 136—120.

Ruetschi, Paul, B. D. Cahan, and W. S. Herbert, to The Electric Storage Battery Co. Electric battery. 3,057,-944, 10–9–62, Cl. 136—20.

Ruetz, Theodor. Frictional igniter. 3,049,902, 8–21–62, Cl. 67—6.1.

Ruf, Josef, to Memmingen KG Ing. Theodor Otto, Maschinenfabrik. Ball winding machine. 3,043,527, 7–10–62, Cl. 242—2.

Ruf, Walter: *See*—
Blais, Maurice E., Ruf, and Di Meglio. 3,044,231.
Marzolph, Herbert, Ruf, and Corte. 3,051,741.

Ruf, Walter. Track-chain link. 3,017,225, 1–16–62, Cl. 305—51.

Ruf, Walter. Steering gear arrangements for track-laying vehicles. 3,056,310, 10–2–62, Cl. 74—378.

Ruff, Alonzo W., to Y. C. Patterson & Associates, Inc. Closure for cold storage warehouse service opening. 3,038,-400, 6–12–62, Cl. 98—36.

Ruff, Norbert C., to Universal Oil Products Co. Electrolysis with improved platinum plated titanium anode and manufacture thereof. 3,055,811, 9–25–62, Cl. 204—128.

Ruffalo, John B. Paper slide rule calculator. 3,025,767, 3–20–62, Cl. 93—1.

Ruffing, Norman R.: *See*—
Nagle, Floyd B., and Ruffing. 3,070,553.
Nagle, Floyd B., and Ruffing. 3,070,554.

Ruffing, Norman R., J. L. Amos, and V. D. Puzar, to The Dow Chemical Co. Removal of phenolic inhibitors from alkenyl monomers. 3,017,426, 1–16–62, Cl. 260—465.9.

Ruffing, William J. Snow scooper. 3,043,027, 7–10–62, Cl. 37—43.

Ruffle, Larry L., and R. J. Schultz, to General Motors Corp. Hydraulic levelizing control for vehicle suspension. 3,043,-607, 7–10–62, Cl. 280—124.

Ruffin, Gerard T.: *See*—
Caplant, Isadore, Ruffin, and Van Zile. 3,069,768.

Rugaber, Robert H., J. L. Wheeler, and S. E. Townsend, to General Dynamics Corp. Pulse amplifier utilizing the storage effect of a transistor to form a square pulse out from a differentiated pulse input. 3,037,130, 5–29–62, Cl. 307—88.5.

Rugen, Donald F.: *See*—
Oberdorfer, Paul E., Jr., and Rugen. 3,028,313.

Rugero Co., The: *See*—
Runknagel, Rolf K. H. 3,061,383.

Rugg, E. T., Co., The: *See*—
Grabowski, Ben T. 3,044,240.

Rugg, Frank M., and J. E. Potts, to Union Carbide Corp. Process for preparing composition containing graft copolymer of polyethylene and an acrylate monomer. 3,027,346, 3–27–62, Cl. 260—45.5.

Rugg, Harold H., and H. B. Wortman, to Westinghouse Electric Corp. Electrical bus structure. 3,061,665, 10–30–62, Cl. 174—85.

Ruggeberg, Hans, to R. & R. Carbide Mfg. Co. Inc. Rotary files. 3,042,994, 7–10–62, Cl. 29—78.

Ruggeri, Henry J.: *See*—
Holgywood, Vincent E., and Ruggeri. 3,069,982.

Ruggeri, Peter D. Machine for pulling supporting wires from a trellis. 3,045,936, 7–24–62, Cl. 242—54.

Ruggieri, Egidio, to Adir-Apparecchi di Raffreddamento S.r.l. Portable refrigerating unit. 3,034,305, 5–15–62, Cl. 62—4.

Ruggiero, Alfred G., to E. D. Bullard Co. Safety hat suspension harness. 3,040,329, 6–26–62, Cl. 2—3.

Ruggiero, Anthony M.: *See*—
Orlando, John B., Ruggiero, and Coppola. 3,067,639.

Ruggles, Percy C.: *See*—
Turk, Walter R., and Ruggles. 3,035,196.

Ruggles, Percy C., to English Electric Valve Co. Ltd. High frequency electron discharge tubes. 3,017,535, 1–16–62, Cl. 315—39.

Ruhala, Joseph D., and R. L. Jones, to General Motors Corp. Windshield washer nozzle and clip assembly. 3,056,177, 10–2–62, Cl. 20—40.5.

Ruhl, Charles A. L., to The New York Air Brake Co. Hydraulic mechanism. 3,033,168, 5–8–62, Cl. 121—38.

Ruhl, Edmund W., Jr., to Dorsey Drip Regulator Corp. Drip-preventing valve. 3,026,902, 3–27–62, Cl. 137—484.2.

Ruhl, Alfred H., and R. H. Wahl, to Ford Motor Co. Hydropneumatic suspension. 3,032,350, 5–1–62, Cl. 280—124.

Rühl, Manfred: *See*—
Fürst, Stefan, and Rühl. 3,061,216.
Reiners, Walter, and Rühl. 3,070,320.

Ruhl, Manfred, to Reiners. Method and device for unwinding multilayer yarn coils such as cops. 3,057,577, 10–9–62, Cl. 242—128.

Ruhman, Smil: *See*—
Beck, Robert M., Mitchell, Palevsky, and Ruhman. 3,029,023.

Ruhnau, Angela: *See*—
Selle, Hans-Dieter, and Ruhnau. 3,022,131.

Ruhnke, Edward V.: *See*—
Gladrow, Elroy M., Ruhnke, and Kimberlin. 3,055,841.

Ruhnke, Richard R., to Garcy Corp. Rack. 3,021,961, 2–20–62, Cl. 211—177.

Ruhnke, Richard R., to Garcy Corp. Drawer slide mechanism. 3,026,149, 3–20–62, Cl. 308—3.8.

Ruhoff, John R., W. L. Towle, F. A. J. Moss, and G. A. Terry, to Mallinckrodt Chemical Works. Process for mutually separating uranium and thorium values. 3,029,131, 4–10–62, Cl. 23—14.5.

Ruhrchemie Aktiengesellschaft: *See*—
Beck, Kurt, and Roelen. 3,026,570.
Büchner, Karl, Roelen, Meis, and Langwald. 3,043,871.
Buchner, Karl, and Tummes. 3,047,599.
Feichtinger, Hans, and Puschhof. 3,067,092.
Goethel, Herbert, Jacob, Kolling, and Roelen. 3,024,208.
Rottig, Walter. 3,030,345.
Rottig, Walter. 3,067,190.
Schaub, Franz, and Hesse. 3,058,513.
Schaub, Franz, and Schleper. 3,068,584.
Spolders, Rudolf, Breuing, and Piener. 3,060,015.
Vielstich, Wolf, Rottig, and Spengler. 3,019,088.

Ruhrmann, Josef, to Talon, Inc. Machine for production of slide fasteners. 3,054,168, 9–18–62, Cl. 29—208.

Ruhrmann, Josef, K. Streicher, and E. Popovitsch, to Talon, Inc. Slide fastener. 3,015,868, 1–9–62, Cl. 24—205.13.

Ruhrmann, Josef, K. Streicher, and E. Popovitsch, to Talon, Inc. Method of making slide fasteners. 3,054,171, 9–18–62, Cl. 29—410.

Ruhrstahl Aktiengesellschaft: *See*—
Armbruster, Werner, and Maas. 3,042,510.

Ruidisch, Louis E.: *See*—
Heisler, Robert Y., Hess, Eckert, and Ruidisch. 3,055,-934.

Ruiter, Lukas H., and J. M. Van Schaik, to Lever Bros. Co. Hydrogenation process. 3,015,667, 1–2–62, Cl. 260—409.

Ruiz, Ignacio L. Multi-purpose fish trap. 3,029,546, 4–17–62, Cl. 43—105.
Ruiz, Luis A. Baler twine package. 3,017,021, 1–16–62, Cl. 206—59.
Ruiz, William B. Collapsible awning. 3,039,526, 6–19–62, Cl. 160—132.
Ruka, William A., and W. L. Caudill. Turf and lawn cultivator. 3,022,834, 2–27–62, Cl. 172—21.
Ruland, Edward J., Jr.: *See*—
Lobosco, Roscoe R., Dean, and Ruland. 3,041,445.
Lobosco, Roscoe R., and Ruland. 3,054,885.
Ruland, Edward J., Jr., J. P. C. Allen, and R. R. Lobosco, to Union Carbide Corp. Welding control circuit. 3,021,-420, 2–13–62, Cl. 219—131.
Rule, David W.: *See*—
Dorey, Michael J., Mitchell, Rule, and Walker. 3,069,329.
Rule, Frank M., and J. L. Schneller. Cleaning and aerating circulatory system for swimming pools. 3,045,829, 7–24–62, Cl. 210—169.
Rulison, Raymond: *See*—
Ciccolella, David F., Forster, and Rulison. 3,067,485.
Rulseh, Roger D.: *See*—
Everard, Joseph J., and Rulseh. 3,052,765.
Rumanowski, Edmund J.: *See*—
Gilbert, Everett E., and Rumanowski. 3,040,095.
Gilbert, Everett E., and Rumanowski. 3,043,674.
Gilbert, Everett E., and Rumanowski. 3,062,883.
Rumbaugh, Kenneth H. Amusement and educational device. 3,028,704, 4–10–62, Cl. 46—43.
Rumberg, Alfred: *See*—
Zager, Kurt, and Rumberg. 3,059,039.
Rumberg, Karl A.: *See*—
Carlström, Börge I., and Rumberg. 3,052,583.
Rumble, Robert C., and W. A. Hoyer, to Jersey Production Research Co. Completion of wells. 3,032,107, 5–1–62, Cl. 166—55.1.
Rumble, William G., to Radio Corp of America. Drive circuit for a computer memory. 3,025,411, 3–13–62, Cl. 307—88.5.
Rummel, Roman. Method and device for carrying out metallurgical processes, particularly air refining processes. 3,015,554, 2–2–62, Cl. 75—51.
Rummel, Roman. Process for smelting and reducing powdered or finely divided ores. 3,038,795, 6–12–62, Cl. 75—40.
Rummel, Theodor, to Siemens and Halske Aktiengesellschaft Berlin and Munich. Method for producing semiconductor single crystals. 3,021,198, 2–13–62, Cl. 23—223.5.
Rummel, Theodor, to Siemens & Halske Aktiengesellschaft Berlin and Munich. Method of producing silicon single crystals. 3,031,270, 4–24–62, Cl. 23—223.5.
Rummel, Theodor, to Siemens and Halske Aktiengesellschaft. Crucible for melting silicon of highest purity and method of making it. 3,051,555, 8–28–62, Cl. 23—223.5.
Rummery, Frank O.: *See*—
Roseman, Reuben, Rummery, Richards, and Chrest. 3,037,876.
Rumpel, Carl H., to Bell Telephone Laboratories, Inc. High frequency power meter. 3,048,778, 8–7–62, Cl. 324—95.
Rumpel, William F.: *See*—
Meguerian, Garbis H., and Rumpel. 3,059,467.
Rumpf, Jurg: *See*—
Gysin, Hans, Knusli, and Rumpf. 3,053,843.
Rumpp, Norman L., C. A. Glass, and P. K. Chung, to United States of America, Navy. Segment grain. 3,054,353, 9–18–62, Cl. 102—98.
Rumptz, Bernard S., to Young Spring & Wire Corp. Headrest assembly for vehicle seats. 3,027,194, 3–27–62, Cl. 297—410.
Rumrill, Howard J., E. W. Howe, W. T. Harnett, and F. K. Browe, to American Bosch Arma Corp. Tracking device. 3,038,686, 6–12–62, Cl. 244—77.
Rumsa, Antanas J.: *See*—
Macleod, Keith, and Rumsa. 3,069,822.
Rumscheidt, Gottfried E., to Shell Oil Co. Polyethylene and polypropylene stabilized with thiosulphates. 3,036,034, 5–22–62, Cl. 260—45.7.
Rumsey, Herbert, Jr., to W. R. Grace & Co. Commercial package and method and apparatus for making the same. 3,028,656, 3–27–62, Cl. 53—22.
Rumsey, Herbert, Jr. Apparatus for processing meat products. 3,065,585, 11–27–62, Cl. 53—124.
Rumsey, Rollin D.: *See*—
Gies, Paul E., and Rumsey. 3,018,854.
Rumsey, Rollin D., to Houdaille Industries, Inc. High temperature valve. 3,019,812, 2–6–62, Cl. 137—557.
Rumsey, Rollin D., to Houdaille Industries, Inc. Control surface actuator damper hinge. 3,020,008, 2–6–62, Cl. 244—85.
Rumsey, Rollin D., to Houdaille Industries, Inc. Rotary actuator seal. 3,021,822, 2–20–62, Cl. 121—99.
Rumsey, Rollin D., to Houdaille Industries, Inc. Linear viscous damper. 3,037,761, 6–5–62, Cl. 267—8.
Rumsey, Rollin D., to Houdaille Industries, Inc. Linear hydraulic shock absorber. 3,039,566, 6–19–62, Cl. 188—88.
Rumsey, Rollin D., to Houdaille Industries, Inc. Piston-rack rotary actuator. 3,040,717, 6–26–62, Cl. 121—120.
Rumsey, Rollin D., to Houdaille Industries, Inc. Hydraulic pump face type valve plate auto balancing. 3,043,233, 7–10–62, Cl. 103—161.
Rumsey, Rollin D., to Houdaille Industries, Inc. Vibration damper structure. 3,049,941, 8–21–62, Cl. 74—574.
Rumsey, Rollin D., to Houdaille Industries, Inc. Friction hydraulic snubber. 3,054,478, 9–18–62, Cl. 188—86.
Rumsey, Rollin D., and E. C. Manning, to Houdaille Industries, Inc. High speed variable displacement pump. 3,028,-814, 4–10–62, Cl. 103—161.
Rumsey, Rollin D., and J. C. Schultz, to Houdaille Industries, Inc. Rotary flutter damper. 3,038,561, 6–12–62, Cl. 188—93.
Runberg, George W.: *See*—
Willman, Bertram T., and Runberg. 3,027,942.
Runci, Joseph O., and R. J. Bernotas, to General Motors Corp. Bucket position indicator. 3,017,046, 1–16–62, Cl. 214—140.
Rund, John C. Hardtop convertible automobile structure. 3,021,174, 2–13–62, Cl. 296—107.
Runde, Byron A., and I. W. Borutzke, to Burroughs Corp. Accounting machines. 3,021,053, 2–13–62, Cl. 235—60.
Runde, Byron A., and I. W. Borutzke, to Burroughs Corp. Control apparatus for accounting machines. 3,023,951, 3–6–62, Cl. 235—60.47.
Runde, Byron A., and W. J. Lishock, to Burroughs Corp. Document guide device. 3,027,992, 4–3–62, Cl. 197—128.
Rundquist, Dean W., to Shell Oil Co. Apparatus for the coagulation and recovery of polymers. 3,050,113, 8–21–62, Cl. 159—13.
Runft, Arthur J., to General Motors Corp. Digital accelerometer system. 3,033,043, 5–8–62, Cl. 73—517.
Runge, Heinz F.: *See*—
Bach, Chester C., Clark, Drukker, Klenke, Lenk, and Runge. 3,016,448.
Runge, Heinz F., to Oscar Mayer & Co., Inc. Sausage linking device. 3,042,963, 7–10–62, Cl. 17—34.
Runge, Heinz F., to Western Electric Co., Inc. Material cutting apparatus. 3,052,144, 9–4–62, Cl. 83—123.
Runge, Heinz F., to Western Electric Co., Inc. Article handling apparatus. 3,061,116, 10–30–62, Cl. 214—1.
Runge, Wallace F., to Commercial Solvents Corp. Alkylation of phosphonates. 3,029,272, 4–10–62, Cl. 260—461.
Runk, Robert H., and L. E. Edelman, to Westinghouse Electric Corp. Heat resistant electrical insulating varnish. Re. 25,213, 7–31–62, Cl. 260—20.
Runk, Wilfred H.: *See*—
Smith, William R., Runk, and Kretzmer. 3,067,540.
Runki, Alfred A.: *See*—
Power, Basil D., and Runki. 3,057,546.
Runkle, Jack W., to Callery Chemical Co. Preparation of aminodiboranes. 3,031,503, 4–24–62, Cl. 260—551.
Runknagel, Rolf K. H. Journal seal and retainer therefor. 3,035,843, 5–22–62, Cl. 277—130.
Runknagel, Rolf K. H., to R. K. H Runknagel. Lubricating device. 3,035,876, 5–22–62, Cl. 308—88.
Runknagel, Rolf K. H., to The Rugero Co. Lateral stop and lubricator support for railroad journal boxes. 3,061,383, 10–30–62, Cl. 308—38.
Runnels, Russell W.: *See*—
Lehmann, William L., and Runnels. 3,070,699.
Runowicz, Victor: *See*—
Harren, Richard E., and Runowicz. 3,026,281.
Runswick, Wallace D.: *See*—
Jones, Preston A. 3,029,335.
Jones, Preston A. 3,030,498.
Jones, Preston A. 3,069,540.
Runte, John F. Self-cleaning fluid circulating drill bit. 3,070,182, 12–25–62, Cl. 175—339.
Runton, Leslie A., to The Russell Mfg. Co. Low friction molded fabric bearing. 3,030,248, 4–17–62, Cl. 154—43.
Runton, Leslie A., and H. C. Horton, to The Russell Mfg. Co. Ballistic missile nose cone. 3,026,806, 3–27–62, Cl. 102—92.5.
Runton, Leslie A., H. C. Morton, and L. J. Rasero, to The Russell Mfg. Co. Antifriction bearing. 3,053,592, 9–11–62, Cl. 308—238.
Runton, Leslie A., and L. J. Rasero, to The Russell Mfg. Co. Fabric bearing. 3,068,053, 12–11–62, Cl. 308—238.
Runyan, Raymond A., to Electro-Mechanical Research, Inc. Systems for processing recorded information. 3,017,616, 1–16–62, Cl. 340—174.1.
Runyan, Walter R., to Texas Instruments Inc. Method of growing shaped crystals. 3,025,146, 3–13–62, Cl. 42—2.
Runyon, John P., to Bell Telephone Laboratories, Inc. Reciprocal timing of time division switching centers. 3,050,-586, 8–21–62, Cl. 179—15.
Ruocchio, Aibert C., and D. H. Schroeder, to International Business Machines Corp. Polarized light control. 3,068,-362, 12–11–62, Cl. 250—225.
Ruof, Edgar J., to The Goodyear Tire & Rubber Co. Adaptive brake pressure control. 3,026,148, 3–20–62, Cl. 303—21.
Ruof, Edgar J., to The Goodyear Tire & Rubber Co. Brake pressure control anti-skid apparatus. 3,034,836, 5–15–62, Cl. 303—21.
Ruoff, George M., to A. B. Chance Co. Insulator assembly method and apparatus. 3,054,704, 9–18–62, Cl. 154—43.
Ruoff, Karl, to Dr. Ing. h.c.F. Porsche, K.G., Firma. Speed control arrangement for tractors. 3,037,597, 6–5–62, Cl. 192—3.

Rupar, Charles B.: *See*—
Ilnyckyj, Stephan, and Rupar. 3,048,479.
Oswald, Alexis A., Rupar, and Greenwood. 3,043,824.
Oswald, Alexis A., Rupar, Ilnyckyj, and Nöel. 3,016,349.

Rupe, Chauncey O., to Miles Laboratories, Inc. Method and diagnostic composition of detecting phenylketones. 3,048,475, 8–7–62, Cl. 23—230.

Rupert, Delbert C. Outboard motor lift cart. 3,045,851, 7–24–62, Cl. 214—653.

Rupert, Kenneth C.: *See*—
Engeman, Leonard A., and Rupert. 3,044,352.

Rupert, Paul S., to Empresa Nacional de Inversiones, S.A. Load handling device. 3,064,836, 11–20–62, Cl. 214—83.24.

Rupert, Richard D. Hermetically sealed reflector. 3,029,702, 4–17–62, Cl. 88—78.

Rupert, William A., 20% to P. F. Moore, and 20% to R. Azevedo. Water flushing system. 3,060,450, 10–30–62, Cl. 4—30.

Rupert, William A., 20% to P. F. Moore, and 20% to R. Azevedo. Pressure water flushing system. 3,061,264, 10–30–62, Cl. 251—35.

Ruperti, Andreas, to Ciba Ltd. Process for fixing aminoplasts in the wet state on cellulosic fibrous materials. 3,050,419, 8–21–62, Cl. 117—138.5.

Rupley, Don G., to Daystrom Inc. Periodically frequency-swept and blanked signal generator. 3,030,591, 4–17–62, Cl. 331—172.

Rupp, Karl, to North American Philips Co., Inc. Magnetic recording and reproducing apparatus. 3,037,569, 6–5–62, Cl. 179—100.11.

Rupp, Richard L. Bier. 3,037,648, 6–5–62, Cl. 214—84.

Rupp, Warren E., to The Gorman-Rupp Co. Quick opening centrifugal pump. 3,040,669, 6–26–62, Cl. 103—103.

Ruppel, Albert J., to Booth Fisheries Corp. Immersion freezer. 3,049,890, 8–21–62, Cl. 62—64.

Ruppel, Wolfgang, to Radio Corp. of America. Electric contacts. 3,018,426, 1–23–62, Cl. 317—237.

Ruppert, Robert W. Differential pressure gauge. 3,019,648, 2–6–62, Cl. 73—212.

Ruppright, Siegfried, to Hughes Aircraft Co. Cooling device for electronic apparatus. 3,033,440, 5–8–62, Cl. 230—45.

Rusack, Karl-Heinz: *See*—
Quest, Karl, and Rusack. 3,053,669.

Rusche, Fredric. Fluid line lubrication indicating method. 3,057,433, 10–9–62, Cl. 184—1.

Ruschhaupt, Dolph W., to California-Fresno Investment Corp. Fluid flow regulation. 3,038,496, 6–12–62, Cl. 137—600.

Ruschig, Heinrich, W. Haede, and W. Fritsch, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. New vinyloid thioethers and process for their manufacture. 3,028,400, 4–3–62, Cl. 260—397.1.

Ruschig, Heinrich, M. Schorr, R. Fussganger, F. Bauer, and G. Nesemann, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Substituted 3,3,3-triphenyl-propylamines and process of preparing them. 3,057,881, 10–9–62, Cl. 260—389.

Ruscito, Anthony J., to Sprague Electric Co. Electrical component terminal. 3,015,687, 1–2–62, Cl. 174—153.

Ruscito, Anthony J., to The Bendix Corp. Electrical condenser. 3,026,457, 3–20–62, Cl. 317—260.

Ruscoe, W. J., Co.: *See*—
Ruscoe, William J., McPherson, and Clause. 3,052,589.

Ruscoe, William J., R. M. McPherson, and J. W. Clause, to W. J. Ruscoe Co. Method of making a plastic covered sheet and products made therefrom. 3,052,589, 9–4–62, Cl. 156—277.

Rusconi, Theodore C. Master cylinder for hydraulic systems. 3,059,435, 10–23–62, Cl. 60—54.6.

Rusell Mfg. Co., The: *See*—
Runton, Leslie A., Morton, and Rasero. 3,053,592.

Rush, Charles D.: *See*—
Danziger, William, Rush, and Gold. 3,045,870.

Rush, Elton E.: *See*—
George, David M., Rush, and Held. 3,066,481.
Welty, Richard O., and Rush. 3,044,493.

Rush, Elton E., to Phillips Petroleum Co. Rocket motor. 3,048,009, 8–7–62, Cl. 60—35.6.

Rush, Hugh M., to Robr Aircraft Corp. Method of brazing metals. 3,069,766, 12–25–62, Cl. 29—488.

Rush, Joseph C. Apparatus for application of radio-active substance to pelvic cancer. 3,060,924, 10–30–62, Cl. 128—1.2.

Rush, June W. Circuit employing double-deck switch and by-pass circuit. 3,037,094, 5–29–62, Cl. 179—100.11.

Rushin, Wallace R.: *See*—
Crawford, Arthur R., Rushin, Porter, and Ryan. 3,030,813.

Rushing, George, Jr. Power actuated emergency brake. 3,020,982, 2–13–62, Cl. 188—140.

Rushmer, John R.: *See*—
Blix, Weltzin B., and Rushmer. 3,034,452.

Rushtoh, Frederick N., and R. S. Gladden, Jr., to Washington Aluminum Co., Inc. Floor paneling arrangement. 3,067,843, 12–11–62, Cl. 189—34.

Rushton, David: *See*—
Gribble, Maurice W., and Rushton. 3,061,821.

Rusk, Stanley J., to Lockheed Aircraft Corp. Magnetic moment device for applying corrective torque to a space vehicle. 3,061,239, 10–30–62, Cl. 244—1.

Rusk, Thomas L., Jr.: *See*—
Nirenberg, Robert P., and Rusk. 3,067,608.

Ruskin, Henry, to Swingline, Inc. Tag feeding mechanism. 3,022,508, 2–27–62, Cl. 1—3.

Ruskin, Henry, and A. Ciechanowski, to Swingline, Inc. Actuating mechanism. 3,041,618, 7–3–62, Cl. 1—106.

Rusling, Robert B., to N. Cordis. Blade-type conveyor. 3,059,760, 10–23–62, Cl. 198—224.

Rusoff, Irving I., W. J. Ohan, and C. L. Long, to General Foods Corp. Protein food product and process. 3,047,395, 7–31–62, Cl. 99—14.

Rusoff, Samuel, and R. S. Drabkowski, to Basic, Inc. Carbon bonded refractory article and process of manufacture. 3,015,850, 1–9–62, Cl. 18—47.5.

Ru-Son Products Co.: *See*—
Handzel, Edward. 3,059,390.

Russ, Daniel G., ½ to A. S. Atkinson. Method and apparatus for detecting, measuring and controlling the temperature of gas turbine engines. 3,025,670, 3–20–62, Cl. 60—39.28.

Russ-Elektroofen K.G.: *See*—
Rohn, Johann P. 3,043,895.

Russ, Evart W. Portable electric supply means. 3,056,893, 10–2–62, Cl. 307—150.

Russel, Robert G., to Owas-Corning Fiberglas Corp. Method of making porous fibrous sheet material. 3,040,412, 6–26–62, Cl. 28—72.

Russell, Albert. Paint striper. 3,052,909, 9–11–62, Cl. 15—503.

Russell, Alfred G., to Frank W. Egan & Co. Tube type dryer. 3,036,385, 5–29–62, Cl. 34—160.

Russell, Alfred W., to Russell Reinforced Plastics Corp. Plastic structural member. 3,031,013, 4–24–62, Cl. 160—236.

Russell, Alva G.: *See*—
Pitney, Robert C., and Russell. 3,034,329.

Russell, Arthur G., Co., Inc.: *See*—
Lake, Irving Y., and Clymer. 3,032,174.
Willis, Grant N. 3,048,260.

Russell, Arthur G., and F. A. Clary, Jr., to American Can Co. Materials handling mechanism for unscrambling and sorting of tubular articles. 3,033,416, 5–8–62, Cl. 221—13.

Russell, Arthur O.: *See*—
Reichel, Frank H., and Russell. 3,056,164.

Russell, Burdsall & Ward Bolt and Nut Co.: *See*—
Graves, Frederick E. 3,027,042.

Russell, Charles R.: *See*—
Gugliemelli, Lewis A., Mayer, and Russell. 3,032,550.
Gugliemelli, Lewis A., Mayer, and Russell. 3,037,018.
Gugliemelli, Lewis A., Mayer, and Russell. 3,063,855.
Schaefer, Wilbur C., and Russell. 3,033,851.
Smith, Herbert E., and Russell. 3,057,855.

Russell Constructions Ltd.: *See*—
Hurst, Justin. 3,047,151.

Russell, Donald H.: *See*—
Naglin, Harry S., and Russell. 3,038,393.

Russell, Donald H., to The Atlantic Refining Co. Resinous compositions derived from polyamides and alkylbenzene diisocyanates. 3,020,251, 2–6–62, Cl. 260—18.

Russell, Donald H., to The Atlantic Refining Co. Epoxide resin compositions. 3,050,474, 8–21–62, Cl. 260—2.

Russell, F. C., Co., The: *See*—
Horejs, Edward R., and Fallot. 3,055,468.
Kiehl, Arthur H. 3,034,182.

Russell, Felix A.: *See*—
Cox, Pope D. 3,057,415.

Russell, Fred J., Leaf spring knob retainer. 3,016,255, 1–9–62, Cl. 292—352.

Russell, Fred J. Handle assembly with removable key-operated mechanism. 3,019,632, 2–6–62, Cl. 70—224.

Russell, Fred J. Latch bolt casing anchor. 3,026,137, 3–20–62, Cl. 292—337.

Russell, Fred J. Lost motion locking device. 3,047,327, 7–31–62, Cl. 292—359.

Russell, Fred J. Knob neck mounting. 3,065,014, 11–20–62, Cl. 292—356.

Russell, Fred J. Knob outer end stabilizer. 3,069,194, 12–18–62, Cl. 292—347.

Russell, Fred J., and G. B. Solovieff; said Solovieff assor. to said Russell. Knob having a removable cylinder lock assembly. 3,019,633, 2–6–62, Cl. 70—224.

Russell, Fred J., and F. J. Netschert; said Netschert assor. to said Russell. Emergency release bar. 3,022,102, 2–20–62, Cl. 292—169.

Russell, Fred J., and F. J. Netschert; said Netschert assor. to said F. J. Russell. Door locking mechanism having a dual purpose blocker. 3,026,136, 3–20–62, Cl. 292—336.3.

Russell, Fred J., and G. B. Solovieff; said Solovieff assor. to said Russell. Rose blocking knob. 3,048,996, 8–14–62, Cl. 70—216.

Russell, Fred J., and G. B. Solovieff; said Solovieff assor. to said Russell. Padlock with dual blockers. 3,068,682, 12–18–62, Cl. 70—38.

Russell, George F.: *See*—
Mann, Julius W., and Russell. 3,021,248.
Mann, Julius W., and Russell. 3,046,181.

Russell, George F. Gas treatment by adsorption. 3,061,992, 11–6–62, Cl. 55—31.

Russell, Graham, and A. M. Uttley, to National Research Development Corp. Automatic control systems. 3,045,911, 7–24–62, Cl. 235—151.

Russell, Hall H., to Pittsburgh Plate Glass Co. Splint stretcher. 3,066,320, 12–4–62, Cl. 5—82.

Russell, Harold D., and C. J. Kunz, to Eastman Kodak Co. Film processing machine. 3,025,779, 3–20–62, Cl. 95—94.
Russell, Harold J. Safety switch for automatic door openers. 3,045,164, 7–17–62, Cl. 318—266.
Russell, Harvey W. and R. H., to Willcox & Gibbs Sewing Machine Co. Looper mechanism. 3,059,600, 10–23–62, Cl. 112—200.
Russell, Harvey W. and R., to Willcox & Gibbs Sewing Machine Co. Reinforced seam. 3,059,602, 10–23–62, Cl. 112—262.
Russell, Henry O., to General Electric Co. Compressor rear frame. 3,024,969, 3–13–62, Cl. 230—133.
Russell, Henry R., and F. W. Locke, to Waldorf Paper Products Co. Frozen fowl package and container therefor. 3,054,682, 9–18–62, Cl. 99—194.
Russell, James E., to Vector Mfg. Co., Inc. Frequency or phase shift demodulator. 3,044,020, 7–10–62, Cl. 329—103.
Russell, James R., to Dow Corning Corp. Method for curing room-temperature-vulcanizing organopolysiloxane rubber. 3,061,575, 10–30–62, Cl. 260—37.
Russell, Javan P., R. L. Liles, Jr., to F. D. De Long, Jr. Cutting mechanism. 3,058,438, 10–16–62, Cl. 112—252.
Russell, John L., to The Bristol Co. Electrically actuated contacting device. 3,045,089, 7–17–62, Cl. 200—166.
Russell, Joseph A., and G. Carlson, to General Electric Co. Method and apparatus for accreting molten material on a moving member. 3,060,054, 10–23–62, Cl. 117—51.
Russell, Joseph L.: *See*—
Feder, Jack B., and Russell. 3,024,251.
Wilkinson, Bruce W., Pumpelly, and Russell. 3,026,257.
Russell, Lee E. Apparatus for prefabricating masonry wall sections. 3,032,850, 5–8–62, Cl. 25—2.
Russell, Lindsay, to A. Alford. Directional antenna system. 3,044,063, 7–10–62, Cl. 343—100.
Russell, Linus E., to Peters & Russell, Inc. Two way valve. 3,040,776, 6–26–62, Cl. 137—625.4.
Russell, Linus E., to Peters & Russell, Inc. Pump diaphragm. 3,070,029, 12–25–62, Cl. 103—150.
Russell, Lionel E., 50% to R. W. Alberty. Bathtub. 3,066,316, 12–4–62, Cl. 4—173.
Russell, Louis A.: *See*—
Haynes, Munro K., Russell, and Wild. 3,019,419.
Russell, Louis R., and J. R. Gagnon, to Crane Carrier Corp. Hydraulic system for cranes and the like. 3,033,001, 5–8–62, Cl. 60—97.
Russell Mfg. Co., The: *See*—
Morton, Henry C. 3,068,131.
Rasero, Lawrence J., and Read. 3,067,484.
Runton, Leslie A. 3,030,248.
Runton, Leslie A., and Morton. 3,026,806.
Runton, Leslie A., and Rasero. 3,068,053.
Russell, Marvin E.: *See*—
Booth, Russell N., and Russell. 3,050,600.
Russell, Monica. Hair curler. 3,040,753, 6–26–62, Cl. 132—40.
Russell, Norton A., to Vernay Laboratories, Inc. Diaphragm with stiffener. 3,023,785, 3–6–62, Cl. 137—793.
Russell, Peter B.: *See*—
Baltzly, Richard, Russell, and Mehta. 3,065,230.
Russell, Peter B., and S. J. Childress, to American Home Products Corp. N-loweralkyl-2-(benzyloxatedphenyl) glycolamide. 3,048,633, 8–7–62, Cl. 260—559.
Russell, Ray A., to California Umbrella Co. Tiltable umbrella. 3,044,478, 7–17–62, Cl. 135—20.
Russell Reinforced Plastics Corp.: *See*—
Russell, Alfred W. 3,031,013.
Russell, Richard: *See*—
Russell, Harvey W. and R. 3,059,602.
Russell, Richard E. Drill dispensing container. 3,063,551, 11–13–62, Cl. 206—17.
Russell, Richard H.: *See*—
Russell, Harvey W. and R. H. 3,059,600.
Russell, Robert B., to S. D. Warren Co. Copy method and apparatus. 3,048,695, 8–7–62, Cl. 250—65.
Russell, Robert C., to Eaton Mfg. Co. Window regulator. 3,022,064, 2–20–62, Cl. 268—124.
Russell, Robert C., to Eaton Mfg. Co. Differential mechanism. 3,052,137, 9–4–62, Cl. 74—710.5.
Russell, Robert G.: *See*—
Frickert, Philip J., Jr., Russell, and Smock. 3,039,169.
Morgan, Willard L., Whitehurst, Russell, and Stalego. 3,021,564.
Slayter, Games, Snow, Russell, and Kleist. 3,026,553.
Russell, Robert G., to Owens-Corning Fiberglas Corp. Apparatus for feeding a continuous untwisted multifilament strand. 3,029,993, 4–17–62, Cl. 226—190.
Russell, Robert G., to Owens Corning Fiberglas Corp. Apparatus for production of glass fibers. 3,068,670, 12–18–62, Cl. 65—12.
Russell, Robert G., W. L. Morgan, and L. F. Scheffler, to Owens-Corning Fiberglas Corp. Crystalline fibers. 3,065,091, 11–20–62, Cl. 106—55.
Russell, Robert J., J. F. Cella, and E. A. Towles, to Cella Machinery Inc. Case stacking and unstacking machine. 3,053,402, 9–11–62, Cl. 214—6.
Russell, Samuel I., Jr., to Northern Electric Co. Electrically heated blanket. 3,028,477, 4–3–62, Cl. 219—46.
Russell, Thomas W.: *See*—
Buck, Willard E. 3,058,342.
Buck, Willard E. 3,067,617.
Russell, Valdemar P. Equipment for manufacturing structural blocks. 3,057,033, 10–9–62, Cl. 25—41.
Russell, Virginia A., to General Electric Co. Ceramic material of high dielectric strength containing barium titanate and method of manufacturing. 3,049,431, 8–14–62, Cl. 106—39.
Russell, William H. Adjustable tray for wheelchair. 3,020,085, 2–6–62, Cl. 297—153.
Russell, William J.: *See*—
Weber, Victor, and Russell. 3,049,924.
Russell, Walter J., to Norbute Corp. Laboratory fume hood. 3,025,780, 3–20–62, Cl. 98—115.
Russell, William M. Electric kettles. 3,026,402, 3–20–62, Cl. 219—44.
Russell, William M., and A. P. W. Lawrence, to J. D. Gould Co. Hydraulic elevator control system. 3,057,160, 10–9–62, Cl. 60—52.
Russell, William S., to Parker Rust Proof Co. Phosphate coating process. 3,015,594, 1–2–62, Cl. 148—6.15.
Russo, Carl J., A. L. Trifunovic, and H. A. Sinski, to Joseph Bancroft & Sons Co. Apparatus for withdrawing yarn from a core package. 3,027,108, 3–27–62, Cl. 242—54.
Russo, Carl J., A. L. Trifunovic, and H. A. Sinski, to Joseph Bancroft & Sons Co. Textile fiber core package. 3,058,690, 10–16–62, Cl. 242—159.
Russo, Harry: *See*—
Wilson, James F. 3,038,508.
Russo, Jack. Collapsible utility table and seat for boats. 3,057,670, 10–9–62, Cl. 311—19.
Russo, Michael T. Bottle carrier. 3,055,542, 9–25–62, Cl. 220—104.
Russo, Michael T. Bottle carrier. 3,055,543, 9–25–62, Cl. 220—116.
Russo, Nichola P., and W. F. Allen. Children's exercising and amusement apparatus. 3,026,816, 3–27–62, Cl. 104—113.
Russo, Nichola P., and W. F. Allen. Children's amusement and exercising apparatus. 3,070,035, 12–25–62, Cl. 104—113.
Russo, Philip J. Device for ejection of bowling balls. 3,044,775, 7–17–62, Cl. 273—43.
Russo, Philip J. Ball ejector attachment for pin setting machine. 3,064,978, 11–20–62, Cl. 273—43.
Russoman, Vincent J.: *See*—
Miller, John, and Russoman. 3,022,617.
Russon, Wallace S., to Kroy Unshrinkable Wools, Ltd. Process for shrinkproofing wool. 3,062,610, 11–6–62, Cl. 8—128.
Russum, Lawrence B.: *See*—
Garner, Gail. 3,059,443.
Rust, Charles R.: *See*—
Miller, William R. 3,033,315.
Miller, William R., and Konecny. 3,054,190.
Rust, Edgar C., Jr., to Crompton & Knowles Corp. Sealing of pressure vessels. 3,040,553, 6–26–62, Cl. 68—175.
Rust, Edgar C., Jr., and R. W. Munroe, to Crompton Knowles Corp. Machine for forming webs from fibers. 3,051,998, 9–4–62, Cl. 19—156.
Rust Industrial Co., Inc., The: *See*—
May, Richard W. 3,048,848.
Rust, John B.: *See*—
Rowen, John W., and Rust. 3,057,754.
Rust, John B., and H. H. Takimoto, to Hughes Aircraft Co. Organo silicon-titanium copolymers and method of preparation thereof. 3,057,822, 10–9–62, Cl. 260—46.5.
Rust, John B., and H. H. Takimoto, to Hughes Aircraft Co. Ordered organo silicon-aluminum oxide copolymers and the process of making same. 3,061,587, 10–30–62, Cl. 260—46.5.
Rust, John L., ½ to J. W. Davidson. Device for producing relative motion. 3,018,984, 1–30–62, Cl. 244—17.19.
Rust, Kurt, E. Junghanns, S. Sommer, and G. Bier, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for polymerizing olefins with catalysts of Ti Cl$_3$ dialkyl aluminum fluorides in combination with another dialkyl aluminum halide. 3,047,557, 7–31–62, Cl. 260—93.7.
Rust, Kurt K. G., A. G. M. Gumboldt, K. F. Horndler, S. Sommer, and E. Heitzer, to Hercules Powder Co., Inc. Process for the manufacture of olefin polymers. 3,058,970, 10–16–62, Cl. 260—93.7.
Rust, Mack D. Moistening assembly for cotton picking spindle. Re. 25,206, 7–24–62, Cl. 56—42.
Rustad, Leon W.: *See*—
McClellan, Cyril E., and Rustad. 3,045,239.
Rustad, Stanley C.: *See*—
Brastad, Willman A., Diekhoff, and Rustad. 3,021,953.
Eiden, Leo W., Rustad, and Smirnow. 3,022,616.
Rustad, Stanley C., to General Mills, Inc. Dough curling apparatus. 3,037,467, 6–5–62, Cl. 107—9.
Rustemeyer, Hans, and F. Pollmeier. Composite mold. 3,015,862, 1–9–62, Cl. 22—57.2.
Rust-Oleum Corp.: *See*—
Mayer, Carl H., Jr. 3,061,102.
Rusynyk, Samuel, to Union Carbide Corp. Shuntless brush. 3,025,422, 3–13–62. Cl. 310—246.
Rusynyk, Samuel, to Union Carbide Corp. Brush shunt connections. 3,064,151, 11–13–62, Cl. 310—249.
Rutenberg, Morton W., W. Jarowenko, and L. J. Ross, to National Starch and Chemical Corp. Water-dispersible, partially substituted derivatives of amylose. 3,038,895, 6–12–62, Cl. 260—233.3.
Rutenberg, Morton W., and O. B. Wurzburg, to National Starch and Chemical Corp. Detergent composition containing soil-redeposition inhibitor. 3,061,551, 10–30–62, Cl. 252—117.

Ruter, Hildegard : *See*—
Rüter, Rudolf G. 3,069,796.
Rüter, Rudolf G., deceased, by H. Rüter, F. E. Bemisch, B. R. von Gierke, and R. E. Barner, heirs. Camouflage material. 3,069,796, 1–25–62. Cl. 41—10.
Rutgers, Norman L. : *See*—
Bierwirth, Henry C., and Rutgers. 3,051,451.
Rutgerswerke-Aktiengesellschaft : *See*—
Krieger, Hans, Schweym, and Celler. 3,037,239.
Lang, Karl F., Metzendorf, Turowski, and Gick. 3,023,125.
Lang, Karl F., Metzendorf, Turowski, and Gick. 3,023,255.
Thesing, Jan, Mohr, and Semler. 3,037,992.
Ruth, Arthur H. : *See*—
Biszantz, Fred, and Ruth. 3,034,831.
Ruth, Byron E. : *See*—
Bowden, George F., and Ruth. 3,052,008.
Ruth, Harvey L., to ACF Industries, Inc. Throttle-operated inside carburetor vents. 3,058,723, 10–16–62, Cl. 261—39.
Ruth, John A., to Olin Mathieson Chemical Corp. Manufacture of oxyquinoline. 3,049,543, 8–14–62, Cl. 260—248.
Rutherford, Darel A. Vinyl base bender. 3,028,628, 4–10–62, Cl. 18—19.
Rutherford, Harry T., to N. J. Blake. Motor vehicle support. 3,048,237, 8–7–62, Cl. 187—8.43.
Rutherford, Russell C. : *See*—
Perrigo, John F., and Rutherford. 3,043,220.
Rutherford, Russell G., to Borg-Warner Corp. Needle loading machine. 3,040,418, 6–26–62, Cl. 29—201.
Ruthie Saucy, Inc., The : *See*—
Lehnhard, Ruth C. 3,060,449.
Ruthner, Othmar : *See*—
Machu, Friedrich. 3,043,758.
Ruthner, Othmar. Apparatus for pickling wire or strip stock. 3,048,182, 8–7–62, Cl. 134—63.
Ruthroff, Clyde L., to Bell Telephone Laboratories, Inc. Hybrid network. 3,037,173, 5–29–62, Cl. 333—11.
Ruthroff, Clyde L., to Bell Telephone Laboratories, Inc. Broadband transformers. 3,037,175, 5–29–62, Cl. 333—32.
Ruthruff, Robert F. Carboxylation of benzoic acid. 3,038,-006, 6–5–62, Cl. 260—515.
Ruths, Kurt : *See*—
Fernholz, Hans, Ruths, and Heimann-Trosien. 3,022,342.
Ruti Machinery Ltd. formerly Caspar Honegger : *See*—
Geiger, Otto. 3,043,345.
Ruti Machinery Works Ltd. : *See*—
Merki, Hermann. 3,067,778.
Ruti Machinery Works Ltd. formerly Caspar Honegger : *See*—
Zollinger, Hans. 3,064,690.
Rutigliano, Carl A. Extensible boat trailer. 3,056,520, 10–2–62, Cl. 214—505.
Rutishauser, Hans : *See*—
Ryffel, Kaspar, Rutishauser, and Schweizer. 3,047,541.
Rutkovsky, Abraham and S., to Small Business Administration. Article storing and delivering apparatus. 3,039,614, 6–19–62, Cl. 211—1.5.
Rutkovsky, Sam : *See*—
Rutkovsky, Abraham and S. 3,039,614.
Rutkowski, Edward A. Advertising display. 3,015,178, 1–2–62, Cl. 40—132.
Rutkowski, Karl : *See*—
Hiller, Rolf, Rutkowski, Krägeloh, Voegtlen, and Zahlhaas. 3,051,793.
Rutkowski, Roman V., to South Bend Joy Mfg. Co., Inc. Doll stroller having detachable body. 3,065,975, 11–27–62, Cl. 280—41.
Rutkus, Harold V. : *See*—
Greiner, Charles J., and Rutkus. 3,066,932.
Pukis, Paul H., and Rutkus. 3,020,599.
Rutkus, John, Jr. : *See*—
Eichler, Rolf W., Eichorn, and Rutkus. 3,062,533.
Shepardson, Donald W., Rutkus, and Griswold. 3,062,-110.
Rutkus, John, Jr., D. W. Shepardson, and A. W. Griswold, to Xerox Corp. Projector optical scanning system. 3,062,-095, 11–6–62, Cl. 88—24.
Rutkus, John, Jr., and G. R. Mott, to Xerox Corp. Sheet stripping apparatus. 3,062,536, 11–6–62, Cl. 271—63.
Rutkus, John, Jr., and G. P. Taillie, to Xerox Corp. Sheet feeding apparatus. 3,062,538, 11–6–62, Cl. 271—79.
Rutland, David : *See*—
Ambrosio, Biagio F., and Rutland. 3,016,423.
Rutland, Thomas C., Jr. Jack for endless track. 3,016,603, 1–16–62, Cl. 29—252.
Rutledge, George A., to Reynolds Metals Co. Carton with detachable panel construction. 3,062,430, 11–6–62, Cl. 229—37.
Rutledge, George E., to Munsingwear, Inc. Undergarment. 3,026,697, 3–27–62, Cl. 66—177.
Rutledge, John H. : *See*—
Phillips, Omi G. 3,035,526.
Rutschmann, Jurg, to Sandoz Ltd. Podophyllic acid hydrazides. 3,054,802, 9–18–62, Cl. 260—340.5.
Rutten, Donald E. Silo chute hopper. 3,061,063, 10–30–62, Cl. 193—17.
Rutten, Marion : *See*—
Rutten, Walter. 3,051,214.
Rutten, Walter, deceased, by M. Rutten, L. Quinn, and The Northern Trust Co., executors. Machine for edging and forming. 3,051,214, 8–28–62, Cl. 153—2.
Rutter, Carlton G., to Patton-MacGuyer Co. Male-female connector. 3,065,451, 11–20–62. Cl. 339—258.
Rutter, Donald P., to Johns-Manville Corp. Snap-on metal jacketed pipe insulation. 3,058,860, 10–16–62, Cl. 154—44.
Rutter, Donald P., to Johns-Manville Corp. Metal jacketed insulation. 3,058,861, 10–16–62, Cl. 154—44.
Rutter, Donald P., and A. E. Cimochowski, to Johns-Manville Corp. Metal sheathed insulating blanket. 3,031,358, 4–24–62, Cl. 154—44.
Rutter, William H., to Electro Chemical Engineering & Mfg. Co. System and apparatus for preparing and supplying materials to an applicator. 3,056,591, 10–2–62, Cl. 259—60.
Rutz, Hans, and R. Huber, to Actiengesellschaft Joh. Jacob Rieter & Cie. Air suction system for removing threads, fly and dust from spinning machines. 3,018,603, 1–30–62, Cl. 57—36.
Rutz, Richard F., to International Business Machines Corp. Multiple output semiconductor logical device. 3,047,733, 7–31–62, Cl. 307—88.5.
Rutz, Richard F., to International Business Machines Corp. Oscillators operable selectively between oscillation and non-oscillation. 3,054,070, 9–11–62, Cl. 331—107.
Ruud Mfg. Co. : *See*—
Lyle, John M. 3,065,764.
Ruzicka, Leopold, and H. Heusser, to Ciba Corp. 14-dehydro progesterone and intermediates in the production thereof. 3,040,067, 6–19–62, Cl. 260—397.4.
Ryalo, John T. Tractor terrace blade with load accommodating means. 3,069,792, 12–25–62, Cl. 37—177.
Ryan Aeronautical Co. : *See*—
Flarity, Warren H. 3,056,921.
Girard, Peter F. 3,025,022.
King, James L., and Finney. 3,016,216.
Orr, James P., and Cox. 3,068,822.
Ratkevich, Adam E. 3,046,551.
Ryan, Charles C., Jr., to United States of America, Navy. Automatic acquisition gun turret system. 3,044,055, 7–10–62, Cl. 343—6.
Ryan, Charles E. Infrared xerography. 3,031,572, 4–24–62, Cl. 250—65.
Ryan, Dennis J. Traction device. 3,049,163, 8–14–62, Cl. 152—216.
Ryan, Dennis L., Jr., to E. I. du Pont de Nemours and Co. Process for making the surfaces of fluorocarbon polymers cementable. 3,030,290, 4–17–62, Cl. 204—169.
Ryan, Doris M. : *See*—
Ryan, Harold J. 3,058,710.
Ryan, Edmund J., to Poly-Gas Research and Development Co., Inc. Polymeric oxygen in blood and sera treatment and the product thereof. 3,063,904, 11–13–62, Cl. 167—78.
Ryan, Francis B. Hand-operated wire and cable layer. 3,066,491, 12–4–62, Cl. 61—72.6.
Ryan, George R., and F. F. Ferry, Jr. Hydrometer. 3,055,220, 9–25–62, Cl. 73—446.
Ryan, Harold J., 50% to D. M. Ryan. Adjustable supports for single or multiple mail boxes. 3,058,710, 10–16–62, Cl. 248—124.
Ryan, James F. : *See*—
Batzer, Thomas H., Ryan, and Cummings. 3,036,172.
Cook, Harry M., and Ryan. 3,036,357.
Ryan, James F., Jr. : *See*—
Abrams, Victor R., Werge, and Ryan. 3,041,958.
Ryan, James U. C. and J. W. Toy musical instrument. 3,030,843, 4–24–62, Cl. 84—170.
Ryan, John F. : *See*—
Blair, David R., Jr., Bonner, Coleman, and Ryan. 3,048,-103.
Ryan, John R. : *See*—
Blair, David R., Jr., Coleman, and Ryan. 3,064,573.
Maisel, Daniel S., Ryan, and Cox. 3,045,048.
Ryan, John T., to Minneapolis-Honeywell Regulator Co. Electromagnetic metal detecting apparatus. 3,061,774, 10–30–62, Cl. 324—34.
Ryan, John W. : *See*—
Ryan, James U. C. and J. W. 3,030,843.
Ryan, John W., to Mattel, Inc. Cap gun with pendulum means for producing sound. Re. 25,308, 12–25–62, Cl. 42—57.
Ryan, John W. Multiple speech phonograph. 3,017,187, 1–16–61, Cl. 274—14.
Ryan, John W., to United States of America, Navy. Accelerometer of the inertia element displacement type. 3,024,662, 3–13–62, Cl. 73—516.
Ryan, John W. Firearm actuating buckle. 3,026,642, 3–27–62, Cl. 42—1.
Ryan, John W., to Mattel, Inc. Vibrator toy gun. 3,057,114, 10–9–62, Cl. 46—175.
Ryan, John W. Target simulating a fast draw gunman. 3,059,930, 10–23–62, Cl. 273—102.1.
Ryan, Joseph D., to Libbey-Owens-Ford Glass Co. Multiple glass sheet glazing units. 3,027,608, 4–3–62, Cl. 20—56.5.
Ryan, Joseph D., to Libbey-Owens-Ford Glass Co. Glass door construction. 3,056,187, 10–2–62, Cl. 29—155.
Ryan, Joseph D., to Libbey-Owens-Ford Glass Co. Laminated safety glass. 3,061,490, 10–30–62, Cl. 154—2.74.
Ryan, Julian G., to Shell Oil Co. Lubricating oil composition. 3,030,303, 4–17–62, Cl. 252—33.6.
Ryan, Kelly P., to Blair Mfg. Co., Inc. Cattle treating device. 3,016,879, 1–16–62, Cl. 119—157.

Ryan, Paul A.: *See*—
Crawford, Arthur R., Rushin, Porter, and Ryan. 3,030,813.
Ryan, Richard W. Wall receptacle for an aerosol bomb. 3,045,873, 7–24–62, Cl. 222—162.
Ryan, Stanley. Anchor line holders. 3,048,138, 8–7–62, Cl. 114—210.
Ryan, Stanley. Anchor line retaining devices. 3,055,333, 9–25–62, Cl. 114—210.
Ryan, Thomas J., to American Radiator & Standard Sanitary Corp. Vortex circulation guide vanes. 3,023,582, 3–6–62, Cl. 60—54.
Ryan, Thomas J., to Texas Instruments Inc. Motion translating mechanism. 3,060,296, 10–23–62, Cl. 200—168.
Ryan, Thomas M., to United States of America, Atomic Energy Commission. Neutron detector. 3,028,517, 4–3–62, Cl. 313—61.
Ryan, William H., and L. C. Farney, to Polaroid Corp. Light-polarizing film material and the process of preparation. 3,058,393, 10–16–62, Cl. 88—65.
Ryan, William J.: *See*—
Kimsey, Woodrow P., and Ryan. 3,015,173.
Ryan, William P., to Royal McBee Corp. Selective position-ing mechanism for matrix printing machine. 3,032,165, 5–1–62, Cl. 197—16.
Ryan, William P., and R. L. Parker, to Royal McBee Corp. Keyboard control and actuating apparatus. 3,038,577, 6–12–62, Cl. 197—16.
Ryan, William P., and L. Cetran, to Royal McBee Corp. Drive arrangement for typewriters. 3,038,578, 6–12–62, Cl. 197—17.
Rybar Laboratories Ltd.: *See*—
Leader, Sidney A. 3,026,049.
Ryberg, Arling W., to Empire Devices, Inc. Control knob with vernier. 3,050,481, 10–23–62, Cl. 74—10.5.
Ryberg, Nils, deceased, S. Waldenstrom, administrator. Machine for manufacturing fiberboards. 3,066,352, 12–4–62, Cl. 18—5.
Rybolt, Ora M. Controller for motor driven welder generators. 3,041,526, 6–26–62, Cl. 322—85.
Rychlewski, Thaddeus V., to Sylvania Electric Products, Inc. Method of forming patterns. 3,025,161, 3–13–62, Cl. 96—35.
Rychlik, Robert F. Self-synchronous tuning system for variable frequency radar system. 3,028,594, 4–3–62, Cl. 343—17.2.
Rychlik, Robert F. Radio object locating system of continuously variable frequency. 3,039,092, 6–12–62, Cl. 343—17.2.
Rychlý, Karel: *See*—
Matulík, Josef, Rychlý, and Punčochář. 3,063,354.
Ryck, Francis M., to General Motors Corp. Windshield wiper arm attachment. 3,051,516, 8–28–62, Cl. 287—53.
Ryck, Francis M., to General Motors Corp. Windshield wiper arm attachment. 3,056,990, 10–9–62, Cl. 15—250.34.
Ryck, Francis M., and H. W. Schmitz, to General Motors Corp. Linkage drive for windshield wipers. 3,048,045, 8–7–62, Cl. 74—75.
Ryco Development Co., Inc.: *See*—
Ryerson, Creighton W. 3,043,522.
Ryde, John W.: *See*—
Davidson, Hugh W., and Ryde. 3,070,525.
Rydell, Rolf E.: *See*—
Carlson, Karl G. E., and Rydell. 3,038,832.
Ryden, Carl E. Motor speed control arrangement. 3,021,789, 2–20–62, Cl. 103—35.
Ryder, Carl V., to E. Q. Smith, Jr., and L. E. Matthews, to United States of America, Navy. Releasable rocket nozzle. 3,040,517, 6–26–62, Cl. 60—35.6.
Ryder, David F.: *See*—
Pierce, Norwin C., and Ryder. 3,057,702.
Ryder, Elmer. Aim improver for bow and arrow. 3,015,328, 1–2–62, Cl. 124—30.
Ryder, Frank A., to Stewart-Warner Corp. Mild weather combustion heater. 3,024,835, 3–13–62, Cl. 158—28.
Ryder, Frederick, and B. Fishman, to Simmonds Aerocessories, Inc. Mass flowmcter. 3,015,233, 1–2–62, Cl. 73—205.
Ryder, James W., to Esso Research and Engineering Co. Distillate fuels inhibited against bacterial growth. 3,044,-864, 7–17–62, Cl. 44—63.
Ryder, John E.: *See*—
Ferrara, John M., and Ryder. 3,068,171.
Ryder, Robert M.: *See*—
Doucette, Edward I., and Ryder. 3,059,158.
Rydholm, Sven A., to Billerud s Aktiebolag. Process for the manufacture of cellulose pulp and a recovery process for cooking chemicals combined therewith. 3,055,793, 9–25–62, Cl. 162—38.
Rydinger, Mats, to Allmanna Svenska Elektriska Aktiebolaget. Device for the exhaustion of flue-gases from arc furnaces. 3,018,096, 1–23–62, Cl. 263—10.
Rydz, Leon. Propeller apparatus. 3,050,007, 8–21–62, Cl. 103—94.
Rye, Grover W., to The Goodyear Tire & Rubber Co. Adhesive composition comprising a rubber latex, a phenol, an aldehyde and a dithiocarbamate, and method of preparing same. 3,031,431, 4–24–62, Cl. 260—43.
Ryer, Frederick V., to Lever Brothers Co. Modification of the hydration characteristics of form II sodium tripolyphosphate prior to detergent processing. 3,056,652, 10–2–62, Cl. 23—106.
Ryer, Jack: *See*—
Ray, Watson A., and Ryer. 3,027,316.
Ryerson, Creighton W., to Ryco Development Co., Inc. Sprinkler construction. 3,043,522, 7–10–62, Cl. 239—230.
Ryffel, Kaspar, to Inventa, A.G. fur Forschung & Patentverwertung. Process for the manufacture of net-like structures from synthetic fibers. 3,041,915, 7–3–62, Cl. 87—12.
Ryffel, Kaspar, H. Rutishauser, and E. Schweizer, to Inventa A.G. fur Forschung und Patentverwertung. Process for the continuous production of polyamide fibers and ribbons. 3,047,541, 7–31–62, Cl. 260—78.
Rygwelski, Raymond J.: *See*—
Gray, Roland H., Jr., Rygwelski, and Tigner. 3,047,522.
Ryker, Truman C., to E. I. du Pont de Nemours and Co. Fungicidal composition comprising chlorophenol mercury sulfate and tetramethylthiuram disulfide. 3,034,949, 5–15–62, Cl. 167—22.
Rykoskey, Francis B. Oil monitor. 3,067,385, 12–4–62, Cl. 324—61.
Rylander, Arthur F.: *See*—
Vogel, Henry A., Rylander, and Roach. 3,016,357.
Rylander, John V. Joist framing construction. 3,063,103, 11–13–62, Cl. 20—1.
Rylander, John V. Roof construction. 3,063,201, 11–13–62, Cl. 50—210.
Rylands Brothers Ltd.: *See*—
Sansum, Robert D. 3,039,380.
Rymaszewski, Eugene J., to International Business Machines Corp. High frequency measurements. 3,054,948, 9–18–62, Cl. 324—58.
Rymland, Murray J. Upholstered spring assembly. 3,055,021, 9–25–62, Cl. 5—351.
Rynkiewicz, Henry J., and G. B. Ayres, to American Cyanamid Co. Suture package. 3,043,067, 7–10–62, Cl. 53—27.
Rynkiewicz, Henry J., E. W. K. Schwarz, and I. Skeist, to Diamond Alkali Co. Process of wet spinning stereoregular polyvinyl alcohol. 3,063,787, 11–13–62, Cl. 18—54.
Ryno, Juddson B.: *See*—
Casey, Charles L., and Ryno. 3,016,165.
Ryon, John W.: *See*—
Schluderberg, Donald C., and Ryon. 3,033,773.
Ryschkewitsch, George E., to Olin Mathieson Chemical Corp. Catalytic process for the preparation of alkylated pentaboranes. 3,030,417, 4–17–62, Cl. 260—606.5.
Rysen, Ernst, & Co. K. Voutmel. Covered separable fastener. 3,037,255, 6–5–62, Cl. 24—205.1
Rystrom, Charles H., to Ammco Tools, Inc. Rotary fluid motors. 3,029,794, 4–17–62, Cl. 121—87.
Ryszewski, Vincent J.: *See*—
Beebe, Emmett R., and Blokland. 3,055,996.
Ryu, David, and Ryszewski. 3,053,556.
Rytina, Anton W., to Edmont Inc. Glove. 3,050,738, 8–28–62, Cl. 2—167.
Rytron Co., Inc.: *See*—
Schlegel, Robert E. 3,061,762.
Rywak, John, to Northern Electric Co., Ltd. Mono-stable circuit having resistively cross-coupled bistable flip-flop. 3,036,227, 5–22–62, Cl. 307—88.5.
Rywak, John, to Northern Electric Co. Ltd. Timing delay and reset circuit. 3,060,350, 10–23–62, Cl. 317—148.5.
Ryzur, John W., to Nico Chemical Co. Metal cleaning. 3,037,886, 6–5–62, Cl. 134—4.
Rzeszutko, Joseph G., and F. P. Lawler, to James H. Rhodes & Co. Apparatus for forming coreless rolls of fibrous wool ribbon. 3,029,493, 4–17–62, Cl. 29—1.
S. A. Brush Co. Ltd.: *See*—
Smyth, Donald. 3,031,703.
S.A.S.I.B.-S.p.A. Scipione Innocenti-Bologna: *See*—
Innocenti, Scipione. 3,015,978.
S.A.S. Lavorazione Materie Plastische (L.M.P.) di M.I. Colombo & C.: *See*—
Colombo, Roberto. 3,024,496.
S & C Electric Co.: *See*—
Baker, Charles H. 3,041,426.
Gussow, William A. 3,070,674.
Gussow, William A., and Mikos. 3,030,481.
Hurlesaus, Reinhold, and Kraemer. 3,037,249.
Kramer, Rolf W., and Schrotz. 3,038,213.
S.E.B. Establishment: *See*—
Herter, William J. 3,048,305.
S.E.B.M.A. S.A., Societe d'Exploitation des Brevets de Machines Agricoles: *See*—
Cascarine, Robert L. L. 3,027,950.
S.E.C.I.-Societá Elettroteenica Chimica Italiana S.p.A.: *See*—
Canegallo, Giovanni. 3,055,084.
S. & E. Mfg. Co.: *See*—
Reavis, William J., and Schutte. Re. 25,133.
S-J Chemical Co.: *See*—
Smith-Johannsen, Robert. 3,020,597.
Smith-Johannsen, Robert. 3,056,735.
SKF Kugellagerfabriken Gesellschaft mit beschrankter Haftung: *See*—
Dausch, Ernst, and Schrotz. 3,021,574.
Gerber, Fritz. 3,044,128.
Rogner, Ernst. 3,050,789.
Sommer, Walter. 3,070,413.
Steichele, Joseph. 3,069,835.
Steichele, Joseph, Wendel, and Breitenbach. 3,025,658.
S and L Sales, Inc.: *See*—
Emmons, Robert A. 3,055,552.
S & M Chemicals, Ltd.: *See*—
Mazur, Paul A. 3,037,039.

S.O.S. Cinema Supply Corp.: *See*—
Allen, William. 3,041,740.
S-P Mfg. Corp., The: *See*—
Cook, Charles W., and Sampson. 3,025,836.
Sampson, Merritt B. 3,055,670.
S.r.l. Cogera Compagnia Generale Rappresentanze: *See*—
Svidercoschi, Virginio. 3,040,610.
S.R.S. Jewelry Casting Corp.: *See*—
Rosenthal, Zoltan. 3,025,820.
S & S Corrugated Paper Machinery Co., Inc.: *See*—
Shields, Albert F. 3,016,874.
Shields, Albert F. 3,042,398.
Shields, Albert F. 3,063,577.
Shields, Albert F. 3,068,837.
Wilson, Harry W. 3,046,935.
Wilson, Harry W., and Saunders. 3,053,309.
S. & S. Industries, Inc.: *See*—
Schwartz, Marcus. 3,067,750.
S & S Vending Machine Co.: *See*—
Smith, William J. 3,028,045.
S.U. Carburetter Co. Ltd., The: *See*—
Morris, John N. 3,068,793.
Morris, John N., and Hossack. 3,068,794.
SWF- Spezialfabrik fur Autozubehor Gustar-Rau G.m.b.H.: *See*—
Bock, Willy, and Kohler. 3,058,143.
Prohaska, Hans. 3,023,446.
Prohaska, Hans, Anschutz, and Blucher. 3,053,337.
Prohaska, Hans, and Bock. 3,058,654.
Prohaska, Hans, and Kohler. 3,046,591.
Prohaska, Hans, and Kohler. 3,054,128.
Saad, Karim I.: *See*—
Silverson, Roy A., Maurer, and Saad. 3,046,165.
Saad, Theodore S., to Sylvania Electric Products Inc. Electrical crystal unit. 3,028,560, 4–3–62, Cl. 329—162.
Saad, Theodore S., to Sage Laboratories, Inc. Coaxial hybrid. 3,040,275, 6–19–62, Cl. 333—10.
Saad, Theodore S., to Sage Laboratories, Inc. High frequency component. 3,059,201, 10–16–62, Cl. 338—216.
Saal, Frederick A.: *See*—
Garrison, Richard F., and Saal. 3,022,003.
Hussey, Luther W., and Saal. 3,060,324.
Saal, Frederick A., to Bell Telephone Laboratories, Inc. Speech interpolation system. 3,030,447, 4–17–62, Cl. 179—15.
Saam, Frank. Musical instrument bridge fitter. 3,041,794, 7–3–62. Cl. 51—185.
Saar, Robert P., and V. A. Bicicchi, to Henry Pratt Co. Door structure for personnel and material locks. 3,032,835, 5–8–62, Cl. 20—16.
Saari, Frank E.: *See*—
Roth, Grant V. W., and Saari. 3,025,871.
Saari, John M., D. C. Damoth, and W. C. Wiley, to The Bendix Corp. Gating apparatus for charged particles. 3,049,638, 8–14–62, Cl. 313—103.
Saari, Robert S., to Nordberg Mfg. Co. Hydraulic support assembly for gyratory crushers. 3,026,051, 3–20–62, Cl. 241—213.
Saarivirta, Matti J., to American Metal Climax, Inc. Copper base alloys. 3,017,268, 1–16–62, Cl. 75—154.
Saarivirta, Matti J., to American Metal Climax, Inc. Copper-zirconium-hafnium alloys. 3,019,102, 1–30–62, Cl. 75—153.
Saars, William F.: *See*—
Latham, William S., and Saars. 3,015,810.
Saatzer, Lawrence T. Lawn golf game. 3,027,163, 3–27–62, Cl. 273—178.
Saavedra, Ramón F., and H. O. Carrasco. Sofety razor. 3,066,413, 12–4–62, Cl. 30—339.
Sabadish, George. Torque transmitting device. 3,068,666, 12–18–62, Cl. 64—15.
Sabaitis, John J. Seed planter. 3,026,828, 3–27–62, Cl. 111—82.
Sabasteanski, John H.: *See*—
Hawkes, Howard T., Ginn, and Sabasteanski. 3,017,041.
Sabbioni, Cesare. Hydraulic devices for automatic control of mechanical movement, e.g., of advance of a gear blank in a gear cutting machine. 3,059,545, 10–23–62, Cl. 90—4.
Sabin, Darrel B.: *See*—
Beggs, Donald, Huebler, Sabin, Scarlett, and Turin. 3,021,236.
Sabin, John U., to Fibreboard Paper Products Corp. Package, packaging method and divider construction therefor. 3,048,-318, 8–7–62, Cl. 229—15.
Sabine, Hale J.: *See*—
Burkhard, Mahlon D., and Sabine. 3,069,955.
Sabins, Rolland C. Electrolytic system. 3,048,535, 8–7–62, Cl. 204—197.
Sabins, Rolland C. Heat sink or A.C.-D.C. rectifier. 3,054,-032, 9–11–62, Cl. 317—234.
Sabins, Rolland C. Electrolytic system. 3,054,743, 9–18–62, Cl. 204—197.
Sabins, Rolland C. Anode mounting with concentric bells. 3,067,122, 12–4–62, Cl. 204—196.
Sable, Andre, to Societe d'Electro-Chimie d'Electro-Metallurgie et des Acieries Electriques d'Ugine. Process for the conversion of dolomite to magnesium hydroxide. 3,033,650, 5–8–62, Cl. 23—201.
Sable, André, to Societe d'Electro-Chimie d'Electro-Metallurgie et des Acieries Electriques d'Ugine. Process of hydrating granulated alkaline earth metal oxides. 3,044,857, 7–17–62, Cl. 23—188.
Sable, Andre, to Societe d'Electro-Chimie d'Electro-Metallurgie et des Acieries Electriques d'Ugine. Process for the conversion of dolomite. 3,051,552, 8–28–62, Cl. 23—201.
Sable, Arthur J., to Robertshaw-Fulton Controls Co. Universal transmitting potentiometer. 3,031,611, 4–24–62, Cl. 323—66.
Sable, Arthur J., to Robertshaw-Fulton Controls Co. Linear flow transmitter. 3,040,575, 6–26–62, Cl. 73—211.
Sabo, Stephen C.: *See*—
Slemmons, Charles O., Sabo, and Baranecky. 3,061,499.
Sabol, Albert R.: *See*—
Blaha, Eli W., and Sabol. 3,051,654.
Lemmon, Norman E., and Sabol. 3,042,613.
Sabol, Victor F., and G. Siviy, to Westinghouse Electric Corp. Grounding switch. 3,036,184, 5–22–62, Cl. 200—163.
Saccardo, Pietro: *See*—
Schyril, Franz, Reh, Saccardo, and Dal Pozzo. 3,057,680.
Sacchi, Giulio. Speed change device having resiliently deformable wheels. 3,020,782, 2–13–62, Cl. 74—796.
Sacchini, Columbus R., and D. R. Tomko, to Curtiss-Wright Corp. Spring clutch mechanisms. Re. 25,229, 8–21–62, Re. 192—81.
Sacco, George J. Fire hose nozzle. 3,047,238, 7–31–62, Cl. 239—275.
Sacco, Joseph J., Jr., to Radio Corp. of America. Magnetic cores. 3,031,406, 4–24–62, Cl. 252—62.5.
Sacco, Joseph J., Jr., and E. G. Fortin, to Radio Corp. of America. Magnetic cores. 3,061,546, 10–30–62, Cl. 252—625.
Saccomandi, Corrado. Vehicle headlight. 3,056,020, 9–25–62, Cl. 240—41.25.
Sach, Herbert: *See*—
Petersen, Klinz, and Sach. 3,032,328.
Sacher, Alex, to Standard Insulation Co., Inc. Plastic impregnated paper and method and apparatus for making same. 3,0155,577, 1–2–62, Cl. 117—62.
Sacher, Rudi: *See*—
Troost, Albert, and Sacher. 3,016,537.
Sachs, Charles M., to International Latex Corp. Brassieres. 3,064,654, 11–20–62, Cl. 128—500.
Sachs, David. Flag raising and saluting toy. 3,020,674, 2–13–62, Cl. 46—120.
Sachs, David. Lassoing toy. 3,047,295, 7–31–62, Cl. 273—1.
Sachs, Herbert, to Graf Tool Co., Inc. Universal carburetor and choke repair tool. 3,063,705, 11–13–62, Cl. 269—9.
Sachs, Leslie W. Strain relief grommet. 3,056,852, 10–2–62, Cl. 174—153.
Sachse, Herbert B. Method of making metallic joints. 3,065,-632, 11–27–62, Cl. 29—470.
Sachsel, George F.: *See*—
Sorgenti, Harold A., Nack, and Sachsel. 3,035,918.
Sack, Edgar A., to Westinghouse Electric Corp. Electroluminescent switching circuit. 3,059,147, 10–16–62, Cl. 315—173.
Sack, Edgar A., Jr., to Westinghouse Electric Corp. Display devices. 3,060,345, 10–23–62, Cl. 315—169.
Sack G.m.b.H., Maschinenfabrik: *See*—
Howahr, Erich, and Pahnke. 3,024,676.
Pahnke, Hans-Joachim, and Krohmann. 3,024,772.
Sackett & Sons Co., The: *See*—
Sackett, Walter J. 3,041,113.
Sackett, Walter J. 3,044,718.
Sackett, Walter J., Sr. 3,022,142.
Sackett, Walter J., Sr. 3,068,076
Sackett, Charles E., Jr. Hanger switch. 3,063,384, 11–13–62, Cl. 104—103.
Sackett, Ernest D., to North American Chemical Co. Shoe filler composition and method of making and applying the same. 3,039,885, 6–19–62, Cl. 106—38.
Sackett, Walter J., to The A. J. Sackett & Sons Co. Elevator dust control apparatus. 3,041,113, 6–26–62, Cl. 302—12.
Sackett, Walter J., to The A. J. Sackett & Sons Co. Chain hammer mill. 3,044,718, 7–17–62, Cl. 241—189.
Sackett, Walter J., Sr., to The A. J. Sackett & Sons Co. Ammoniator-granulator apparatus. 3,022,142, 2–20–62, Cl. 23—259.1.
Sackett, Walter J., Sr., to The A. J. Sackett & Sons Co. Materials handling system. 3,068,076, 12–11–62, Cl. 23—259.1.
Sackner Products, Inc.: *See*—
Copeland, Richard S. 3,046,173.
Dorell, Max H., and Hormuth. 3,058,554.
Sacks, David, to E. I. du Pont de Nemours and Co. Draw roll. 3,020,621, 2–13–62, Cl. 28—71.3.
Sacks, Henry W., to The E. F. Hauserman Co. Spray control system. 3,027,273, 3–27–62, Cl. 117—104.
Sacks, Jacob M., to United States of America, Navy. Transistor bistable multivibrator with back-biased diode cross-coupling. 3,028,507, 4–3–62, Cl. 307—8.5.
Sacks, Lawrence E., to United States of America, Agriculture. Preparation of liquids of graded density. 3,060,130, 10–23–62, Cl. 252—315.
Sacks, William: *See*—
Hackhel, Robert H., and Sacks. 3,048,265.
Hackhel, Robert H., and Sacks. 3,048,266.
Sacks, William, and W. F. Underwood, to Union Carbide Corp. Fog resistant polyolefin films. 3,048,263, 8–7–62, Cl. 206—45.33.
Sacksen, Peter K., and G. M. Correll, to West Virginia Pulp and Paper Co. Process and apparatus for regulating consistency and mineral filler content of papermaking stock. 3,035,967, 5–22–62, Cl. 162—191.
Sacksteder, Alfred J.: *See*—
Bremer, Robert D., and Sacksteder. 3,068,340.

Saco-Lowell Shops: *See*—
Anderson, Gordon C., and Pray. 3,060,673.
Folley, Cranston W. 3,030,739.
Folley, Cranston W. 3,057,174.
Tarbox, Philip B. 3,029,479.
West, Paul B. 3,020,600.
Saddock, George F., to American Radiator & Standard Sanitary Corp. Gauge. 3,068,702, 12–18–62, Cl. 73—408.
Sadel, Leo. Eyeglass retaining assembly. 3,018,687, 1–30–62, Cl. 88—52.
Sadell, George W., to J. B. Dove & Sons, Inc. Heat sealing device having porcelain heat surface. 3,025,378, 3–13–62, Cl. 219—19.
Sadell, George W., to J. B. Dove & Sons, Inc. Packaging machine. 3,043,071, 7–10–62, Cl. 53—390.
Sadler Bros., Inc.: *See*—
Sadler, Thomas G., III. 3,024,681.
Sadler, Francis H. Windup and support means for water ski tow ropes. 3,043,259, 7–10–62, Cl. 114—235.
Sadler, Harry J.: *See*—
Cook, Ernest E., and Sadler. 3,018,737.
Sadler, Harry J., and E. E. Cook, to Hypro Engineering, Inc. Piston cup. 3,062,601, 11–6–62, Cl. 309—51.
Sadler, Harry J., and E. E. Cook, to Hypro Engineering, Inc. Pump with flexible bladed rotor. 3,065,705, 11–27–62, Cl. 103—117.
Sadler, James E., and R. L. Haley, to International Harvester Co. Fabricated cotton picker bar assembly. 3,035,389, 5–22–62, Cl. 56—44.
Sadler, Thomas G., III, to Sadler Bros., Inc. Opticians' punch plier. 3,024,681, 3–13–62, Cl. 81—3.6.
Sadowski, Norbert: *See*—
Byrnes, Richard J., Eck, Robbins, and Sadowski. 3,058,567.
Sadtler, Chester B. Machine for tapering wire. 3,049,058, 8–14–62, Cl. 90—24.
Sadtler, Philip B., and H. M. Hunter, to Chicago Bridge & Iron Co. Multiple effect evaporating system. 3,021,265, 2–13–62, Cl. 202—174.
Saegebarth, Klaus A., to E. I. du Pont de Nemours and Co. Process for preparing mercapto-terminated thiomethylene compounds. 3,056,841, 10–2–62, Cl. 260—609.
Saegebarth, Klaus A., to E. I. du Pont de Nemours and Co. Preparation of glycols from dienes and diborane. 3,060,-244, 10–23–62, Cl. 260—635.
Saeger, Albert, to Eli Lilly and Co. Antibiotics A116SO and A116SA and their fermentative production. 3,061,514, 10–30–62, Cl. 167—65.
Saeger, Waldemar: *See*—
Cimerman, Isaac, Saeger, and Mina. 3,037,151.
Saeman, Walter C.: *See*—
Kahn, Harry A., Koch, and Saeman. 3,032,006.
Saeman, Walter C. Rotary furnace installations and method of processing charges therein. 3,030,094, 4–17–62, Cl. 263—52.
Saemann, William M. Swimmer's sled. 3,042,945, 7–10–62, Cl. 9—310
Saenz, Candelario. Dental syringe adapter. 3,046,985, 7–31–62, Cl. 128—218.
Saether, Tore V., to Van Norman Industries, Inc. Reel construction. 3,047,250, 7–31–62, Cl. 242—77.
Saewert, Harold E., and F. E. Kuester, to Swift & Co. Wrinkle-finish compositions. 3,041,195, 6–26–62, Cl. 117—41.
Safe Flight Instrument Corp.: *See*—
Greene, Leonard M. 3,043,540.
Safege-Transport, Societe Anonyme: *See*—
Chadenson, Lucien. 3,059,588.
Chadenson, Lucien. 3,059,591.
Safety Bath International, Inc.: *See*—
Medlock, Alfred A. Re. 25,107.
Safety First Products Corp.: *See*—
Seaberg, Ernest E., and Guest. 3,030,063.
Safeway Stores, Inc.: *See*—
Dahlstrom, Allan T. 3,017,274.
Goldwater, Robert, and Calhoun. 3,019,424.
Saffer, Alfred: *See*—
Barker, Robert S., and Saffer. 3,030,414.
Saffer, Alfred, to Scientific Design Co., Inc. Purification of phthalic anhydride. 3,053,854, 9–11–62, Cl. 260—346.4.
Saffer, Alfred, and R. S. Barker, to Scientific Design Co., Inc. Process for oxidizing styrene to styrene oxide. 3,024,253, 3–6–62, Cl. 260—348.5.
Saffer, Alfred, and R. S. Barker, to Mid-Century Corp. Oxidation of aromatic compounds. 3,069,462, 12–18–62, Cl. 260—524.
Saffer, John L., and D. W. Soltman, to Chrysler Corp. Tailgate mounting. 3,031,225, 4–24–62, Cl. 296—57.
Saffir, Jacob A. Cigarette filters. 3,038,477, 6–12–62, Cl. 131—10.
Saffir, Jacob A., to The Dentists' Supply Co. of New York. Dental porcelains. 3,069,773, 12–25–62, Cl. 32—8.
Saffir, Jacob A., to The Dentists' Supply Co. of New York. Dental instrument. 3,070,381, 12–25–62, Cl. 279—102.
Safford, Donald E., to Sinclair Refining Co. Coupling for reciprocating elements. 3,024,403, 3–6–62, Cl. 318—475.
Safford, Lewis A., to The New York Air Brake Co. Emergency brake valve with power cut-off. 3,022,120, 2–20–62, Cl. 303—82.
Safford, Thomas W., to Arcoa, Inc. Hand truck assembly. 3,051,338, 8–28–62, Cl. 214—374.
Saffores, Louis J.: *See*—
Pellaton, Ernest C., McGimpsey, and Saffores. 3,059,-827.
Safianoff, Albert: *See*—
Oberstar, Helen E., and Safianoff. 3,030,968.
Press, John E., and Safianoff. 3,069,105.
Safianoff, Albert, to The Gillette Co. Filler-proof container and cap therefor. 3,018,012, 1–23–62, Cl. 215—7.
Safianoff, Albert, L. Barr, and D. R. Brandt, to Diamond Crystal Salt Co. Dispenser for granular material. 3,061,-152, 10–30–62, Cl. 222—514.
Safiarski, Edward F. Combined lavatory accessory and soap dispenser. 3,018,489, 1–30–62, Cl. 4—166.
Sagal, John, Jr.: *See*—
Graham, James L., and Sagal. 3,046,129.
Sagalovitch, Wolfe. Method of building construction. 3,028,-707, 4–10–62, Cl. 50—534.
Sagara, Atsuko. Cigarette holders. 3,045,682, 7–24–62, Cl. 131—187.
Sagarin, Philip H., to Valve Corp. of America, Inc. Aerosol valves. 3,024,949, 3–13–62, Cl. 222—394.
Sagarin, Philip H., to VCA Inc. Aerosol valve actuator and cap construction. 3,039,659, 6–19–62, Cl. 222—182.
Sagarin, Philip H., to VCA Inc. Valve and closure construction for aerosol devices. 3,054,536, 9–18–62, Cl. 222—394.
Sagarin, Philip H., and W. R. O'Donnell, to Valve Corp. of America, Inc. Locking cap dispensers. 3,050,219, 8–21–62, Cl. 222—549.
Sage, Bruce H., to Texaco Inc. Calcium carbide process. 3,044,858, 7–17–62, Cl. 23—208.
Sage, Earl M. Printing press cleaning apparatus. 3,016,-826, 1–16–62, Cl. 101—425.
Sage, John G., to United States Steel Corp. Apparatus for disassembling top roll bearing riders. 3,020,628, 2–13–62, Cl. 29—200.
Sage, John G., to United States Steel Corp. Apparatus for changing bearing slippers in rolling mill universal drive assemblies. 3,020,629, 2–13–62, Cl. 29—200.
Sage Laboratories, Inc.: *See*—
Saad, Theodore S. 3,040,275.
Saad, Theodore S. 3,059,201.
Sage, Philip G. Composite wall structure. 3,041,223, 6–26–62, Cl. 154—55.
Sage, Philip G. Garment hanger structure made from flat material. 3,064,866, 11–20–62, Cl. 223—87.
Sager, Karl E. Emergency float. 3,059,253, 10–23–62, Cl. 9—8.
Sagerer, Hans, to F. X. Meiller Fahrzeug- und Maschinenfabrik K.G. Apparatus for controlling the movements of a bucket on an overhead loader. 3,029,961, 4–17–62, Cl. 214—140.
Saggiomo, Andrew J., and J. Weinstock, to Smith Kline & French Laboratories. Process for the preparation of dibenz[b,f] azepines. 3,016,373, 1–9–62, Cl. 260—239.
Saggiomo, Andrew J., and J. Weinstock, to Smith Kline & French Laboratories. Novel 9-acridanemethanol derivatives. 3,033,866, 5–8–62, Cl. 260—279.
Saginaw Machine and Tool Co.: *See*—
Cashman, Robert W., and Wasco. 3,050,828.
Cashman, Robert W., and Wasco. 3,051,029.
Saginaw Products Corp.: *See*—
Morlik, Andrew L. 3,037,820.
Morlik, Andrew L. 3,069,180.
Mulholland, George K., and Klemm. 3,033,523.
Mulholland, Kent A. 3,026,558.
Saginaw Wire Products, Inc.: *See*—
Staples, Lynn W., and Strout. 3,039,763.
Sagura, John J., and J. A. Van Allan, to Eastman Kodak Co. Photographic printout system comprising an organic acid. 3,062,650, 11–6–62, Cl. 96—90.
Sah, Peter P. T., to the Regents of The University of California. Process of preparation of isonicotinyl hydrazones and hydrazides. 3,041,345, 6–26–62, Cl. 260—295.
Saha, Richard A. Jigs. 3,046,818, 7–31–62, Cl. 77—62.
Saha, Richard A. Improved bracket and method of assembly utilizing it. 3,047,110, 7–31–62, Cl. 189—36.
Saha, Richard A. Router jigs. 3,062,075, 11–6–62, Cl. 77—62.
Sahagian, Edward: *See*—
Straub, Frederick A., Sahagian, and Karlstrom. 3,063,-153.
Sahlin Export and Trading Co.: *See*—
Ridley, Harry H. 3,040,685.
Sahlstrom, Rudolf G.: *See*—
Sahlstrom, Sven T. 3,024,574.
Sahlstrom, Sven T., ½ to R. G. Sahlstrom. Ventilation boards for building structures. 3,024,574, 3–13–62, Cl. 50—417.
Sahyun, Melville: *See*—
Faust, John A., and Sahyun. 3,042,674.
Saia A.G.: *See*—
Weber, Arthur. 3,041,423.
Saidel, William R., D. P. Selock, and C. M. Lee, to Machinery Development Corp. Apparatus and process for making open-top containers. 3,053,152, 9–11–62, Cl. 93—51.
Saifer, Abraham, and J. Kopp., to Clinalysis, Inc. Apparatus for chemical analysis or other purposes. 3,033,656, 5–8–62, Cl. 23—259.
Saikachi, Haruo, to M. Ueno. New nitrofuranacrylic derivatives. 3,031,447, 4–24–62, Cl. 260—240.

Sailler, John W., to Chrysler Corp. Engine intake manifold. 3,018,767, 1–30–62, Cl. 123—122.
Sailor, Robert L.: *See*—
Hansen, Raymond M., and Sailor. 3,053,223.
Sailor, Vance L., and R. W. Aichroth, to United States of America, Atomic Energy Commission. Guide for polarized neutrons. 3,067,365, 12–4–62, Cl. 317—200.
Sailor, Vernon R., and R. G. Weyant. Door construction. 3,049,202, 8–14–62, Cl. 189—16.
Sainio, Rainer L. Nail extracting machine. 3,038,701, 6–12–62, Cl. 254—18.
Saint, David, to Graco Metal Products, Inc. Spring motors. 3,059,725, 10–23–62, Cl. 185—37.
St. Amour, Joseph, to Kingston Mfg. Co., Inc. Frame construction for racks with adjustable shelves. 3,040,904, 6–26–62, Cl. 211—147.
St. Amour, Joseph, to Kingston Mfg. Co., Inc. Trackway for storage and dispensing racks. 3,063,534, 11–13–62, Cl. 193—38.
St. Charles, Gilbert L., to John Oster Mfg. Co. Electric motor construction. 3,023,332, 2–27–62, Cl. 310—254.
St. Clair, James G.: *See*—
Richey, Clarence B., St. Clair, and Smith. 3,038,544.
St. Clair, Maurice W.: *See*—
Stitch, Malcolm L., and St. Clair. 3,030,594.
St. Clair, Theodore A., to The Bastian-Blessing Co. Automatic manifold. 3,033,220, 5–8–62, Cl. 137—113.
St. Clair, Theodore A., to Textron, Inc. Meter prover. 3,035,-434, 5–22–62 Cl. 73—3.
St. Clair, Theodore A., and R. K. Fairchild, to Textron Inc. Gas meter sealing means. 3,047,298, 7–31–62, Cl. 277—4.
St. Cyr, Napoleon J. Nontipping drinking-glass coaster. 3,028,702, 4–10–62, Cl. 45—68.4.
St. Denny, Ralph B., and F. H. Brown, to Norwich Mfg. Co., Inc. Collating machine. 3,059,920, 10–23–62, Cl. 270—58.
Saint-Frison, Louis H. N.: *See*—
Boussu, Gabriel X. R., Neuville, and Saint-Frison. 3,062,-259.
Boussu, Gabriel X. R., Neuville, Saint-Frison, and Peignier. 3,060,160.
Neuville, Louis P. F. A., and Saint-Frison. 3,067,795.
Saint-Gobain, Chauny & Cirey, Societe Anonyme des Manufactures des Glaces & Produits Chimiques de: *See*—
Berthon, Lucien, Levecque, and Piot. 3,020,585.
Charpentier, Maurice, and Berthon. 3,020,586.
Levecque, Marcel, and Charpentier. 3,017,663.
Saint-Gobain, Compagnie de: *See*—
Bigot, Bernard. 3,030,180.
Bigot, Bernard. 3,050,384.
Bigot, Bernard C. 3,025,152.
Bourgeaux, Maurice. 3,055,052.
Charcuset, Raymond, and Moyrand. 3,024,857.
Imer, Jean L. P. 3,020,256.
Kepes, Andre. 3,062,513.
Lamesch, Armand. 3,068,618.
Le Clerc, Pierre G. 3,065,345.
Levecque, Marcel, and Piot. 3,031,717.
Paymal, Jean A. 3,046,400.
Saint-Gobain, Societe Compagnie de: *See*—
Arbeit, Pierre. 3,015,190.
St. Helens Wood Products Co.: *See*—
Mecormick, Nelle B., and Barmeier. 3,034,815.
St. John, Alexander N. T., R. Thomann, Jr., and W. E. Titterton, to Resistoflex Corp. Method of assembling a flange to a laminated non-metallic pipe. 3,030,253, 4–17–62, Cl. 156—196.
St. John, Alexander N. T., and W. E. Titterton, to Resistoflex Corp. Methods of lining and jacketing tubular members with prestressed polytetrafluoroethylene. 3,050,786, 8–28–62, Cl. 18—59.
St. John, Cody, to Hollister Inc. Identification means. 3,027,665, 4–3–62, Cl. 40—21.
St. John & Co.: *See*—
Ristow, John R. 3,031,715.
St. John, John H., to Marquette Corp. Oscillographic method of internal combustion engine analysis. 3,032,707, 5–1–62. Cl. 324—16.
St. John, Karl M., to Hazeltine Research, Inc. Signal-translating circuit. 3,038,027, 6–5–62, Cl. 178—7.3.
St. John, Osie O., to Texaco Inc. Deep well drilling apparatus. 3,023,808, 3–6–62, Cl. 166—79.
St. John, Robert M.: *See*—
Bronco, Charles J., and St. John. 3,018,397.
St. John, Thomas W.: *See*—
Manzo, Richard L., and St. John. 3,067,445.
St. Joseph Lead Co.: *See*—
Pence, Henry E. 3,034,421.
Reed, John J. 3,027,700.
St. Lawrence Mfg. Co., Inc.: *See*—
Couture, George. 3,041,080.
Johns, Stanley K. 3,027,057.
Kesner, Richard N., and Hawes. 3,015,492.
St. Onge, Paul N.: *See*—
Prevost, Bruno E., and St. Onge. 3,017,177.
Saint-Paul, Jean L. R., to Societe Anonyme dite: Pneumatiques et Caoutchouc Manufacture Kleber-Colombes. Tire manufacture. 3,018,814, 1–30–62, Cl. 152—361.
Saint Paul, Jean R. L., to Pneumatiques et Caoutchouc Manufacture Kleber-Colobes. Tubeless tire. 3,040,797, 6–26–62, Cl. 152—362.
St. Pierre, Eugene: *See*—
St. Pierre, Paul L., Wawzonek, and E. St. Pierre. 3,036,-449.
St. Pierre, Henry. Swivel hook and chain for tire chains. 3,044,521, 7–17–62, Cl. 152—241.
St. Pierre, Paul L., J. Wawzonek, and E. St. Pierre, to Hemphill Co. Fabric tensioning device for knitting machines and method. 3,036,449, 5–29–62, Cl. 66—150.
St. Pierre, Phillippe D. S., and A. Gatti, to General Electric Co. Process for producing transparent polycrystalline alumina. 3,026,177, 3–20–62, Cl. 23—142.
St. Pierre, Richard E.: *See*—
Mahoney, William R., St. Pierre, and Dunlap. 3,032,829.
St. Regis Paper Co.: *See*—
Blais, Maurice E., and Leach. 3,060,659.
Blais, Maurice E., Ruf, and Di Meglio. 3,044,231.
Cordle, Glen A. 3,039,409.
Harding, Francis, and Browning. 3,025,013.
Jensen, Thormod, Kenkman, and Plumb. 3,057,125.
MacDonald, Warren E. 3,015,919.
Newkirk, Francis F., and Winslow. 3,034,939.
Steck, Clyde O. 3,041,219.
Wilson, Roy K. 3,058,643.
St-West, Inc.: *See*—
Stehlin, Theodore A. 3,062,496.
Sainty, Christopher L., to Structural Concrete Components Ltd. Manufacture of pellets of discrete bodies formed from extruded clay and similar material. 3,036,333, 5–29–62, Cl. 18—1.
Sainty, Christopher L., to Structural Concrete Components Ltd. Manufacture of aggregate suitable for use in concree and like composite materials. 3,042,388, 7–3–62, Cl. 263—32.
Saisei Camphor Co., Ltd.: *See*—
Matsubara, Yoshiharu, Heya, and Aizawa. 3,041,381.
Saito, Etsuo: *See*—
Bollenback, Carol H., Hunt, Saito, and Svarz. 3,024,159.
Saito, Haruhiro. Radio control apparatus for electric running toys. 3,029,371, 4–10–62, Cl. 318—16.
Saito, Shigeru, to Toho Rayon Kabushiki Kaisha. Apparatus for secreting cellulose fibers in gaseous phase. 3,045,461, 7–24–62, Cl. 68—5.
Saito, Taichi. Double curtain track system. 3,060,490, 10–30–62, Cl. 16—95.
Saito, Takeshi: *See*—
Fujii, Kiichi, Oda, Saito, and Takayama. 3,063,910.
Saito, Tomizo. Packing apparatus for staple fiber, raw cotton and the like. 3,033,103, 5–8–62, Cl. 100—100.
Saitta, Vincent F., and T. W. McConville. Toxic chemicals mask. 3,018,776, 1–30–62, Cl. 128—141.
Saives, Leon, to Regie Nationale des Usines Renault and Societe Anon. Hauts-Fourneaux et Forges d'Allevard. Pressure diecasting machine. 3,038,220, 6–12–62, Cl. 22—68.
Sajben, Miklos: *See*—
Hart, John J., and Sajben. 3,058,720.
Sakai, Kango: *See*—
Fujii, Kiichi, Oda, Arita, Sakai, and Takeda. 3,037,998.
Fujii, Kiichi, Oda, Arita, Sakai, and Takeda. 3,068,281.
Sakaki, Yoshinobu. Illuminating device for motion picture projecting. 3,017,538, 1–16–62, Cl. 315—241.
Sakaki, Yoshinobu. Miniature motion picture camera. 3,017,-803, 1–23–62, Cl. 88—16.
Sakamoto, Kunzo. Process for producing a record disc having a pictorial illustration printed thereon. 3,050,433, 8–21–62, Cl. 156—219.
Sakashita, Akio: *See*—
Miyatake, Kazuo, Okano, Hoji, Miki, Sakashita, Oshima, and Kasahara. 3,023,147.
Sakata, Yoshiki: *See*—
Kawamura, Yurio, Tamuki, Takenouchi, Satani, Sakata, and Hanaoka. 3,039,880.
Sakayanagi, Somei, to Naka Nippon Kangyo Kabushiki Kaisha. Process of improving properties of kapok fiber and like fibers and textile materials made thereof. 3,032,855, 5–8–62, Cl. 28—75.
Sakurai, Richard S.: *See*—
Dean, Robert E., Howell, and Sakurai. 3,068,479.
Sakurai, Setsuji, Y. Komachiya, and T. Ito, to Ajinomoto Co., Inc. Process for producing synthetic tryptophane. 3,019,-232. 1–30–62, Cl. 260—319.
Sala, Errett O. Light for foot apparel. 3,067,322, 12–4–62, Cl. 240—6.4.
Sala, Giovanni: *See*—
Camerino, Bruno, Modelli, Patelli, Sala, and Baldratti. 3,061,616.
Camerino, Bruno, Patelli, and Sala. 3,060,201.
Camerino, Bruno, Valcavi, Sala, and Baldratti. 3,030,-390.
Sala Maskinfabriks Aktiebolag: *See*—
Laurila, Erkki A. 3,049,234.
Salada-Shirriff-Horsey Ltd.: *See*—
Irmiter, Theodore F., and Rubin. 3,027,264.
Spross, Spencer A. 3,019,111.
Saladino, Charles. Pill holder construction. 3,021,986, 2–20–62, Cl. 224—26.
Salani, Raymond J., Jr.: *See*—
Dayger, Jonas E., Salani, Hailey, Laurer, and Babel. 3,029,019.
Salapatas, James N., to Consolidated Freightways Corp. of Delaware. Conveyor installation for wheeled carts. 3,048,-126, 8–7–62, Cl. 104—178.

Salatiello, Peter P.: *See—*
Hay, Peter M., Mitchell, and Salatiello. 3,041,208.
Salbenblatt, William F., and R. Gann, to National Electric Welding Machines Co. Means controlling a flexible grinding device. 3,053,151, 9–25–62, Cl. 51—165.
Sale, Roberson Y. Ice cream freezer. 3,046,755, 7–31–62, Cl. 62—136.
Salem, William J.: *See—*
Arond, Lester H., Salem, Wechsler, and Makower. 3,017,396.
Salesky, Charles H., and C. R. Havens, to Hat Corp. of America. Double brim hat. 3,054,113, 9–18–62, Cl. 2—175.
Salgado, Tomas N. Apparatus for the continuous spinning and treatment of synthetic filaments. 3,018,514, 1–30–62, Cl. 18—8.
Sallerno, Elio S. Socket wrench with storage area. 3,063,316, 11–13–62, Cl. 81—124.1.
Salihi, Jalal T., to Lenkurt Electric Co., Inc. Push-pull sequencing gate driven from magnetic core circuit. 3,033,997, 5–8–62, Cl. 307—88.5.
Salinas, James W., to Socony Mobil Oil Co., Inc. Means for loading seismic explosives. 3,058,418, 10–16–62, Cl. 102—21.8.
Salinger, Hans W. G., to International Telephone & Telegraph Corp. Image intensifier. 3,030,514, 4–17–62, Cl. 250—213.
Salinger, Hans W. G., to International Telephone and Telegraph Corp. Magnetic focusing device. 3,050,653, 8–21–62, Cl. 313—68.
Salis, Theodore. Protective device. 3,018,317, 1–23–62, Cl. 136—181.
Salisbury, Clifford A. Universal position check valve. 3,036,594, 5–29–62, Cl. 137—536.
Salisbury, Frank: *See—*
Riddiford, Reginald L., and Salisbury. 3,017,082.
Salisbury, Frederick L.: *See—*
Jepson, Robert L., Salisbury, and Ward. 3,021,447.
Salisbury, Frederick L., to Varian Associates. Electron discharge device. 3,047,351, 7–31–62, Cl. 316—23.
Salisbury, George F., to W. H. Salisbury & Co. Protective cover. 3,042,736, 7–3–62, Cl. 174—5.
Salisbury, Robert M.: *See—*
Winter, Paul H., and Salisbury. 3,038,020.
Salisbury, W. H., & Co.: *See—*
Salisbury, George F. 3,042,736.
Salisbury, Winfield W., to Zenith Radio Corp. Low inductance condenser. 3,024,394, 3–6–62, Cl. 317—261.
Salisbury, Winfield W., to Zenith Radio Corp. Plasma accelerator. 3,059,149, 10–16–62, Cl. 315—267.
Salk, Donald. 33⅓% to N. Salk. Dispensing container. 3,067,787, 12–11–62, Cl. 141—321.
Salk, Norton: *See—*
Salk, Donald. 3,067,787.
Salkind, Alvin J., to The Electric Storage Battery Co. Storage battery electrodes and methods for making them. 3,062,908, 11–6–62, Cl. 136—24.
Salkowski, Albert S.: *See—*
Stoecker, Alfred A., and Salkowski. 3,056,524.
Sall, Gustav A., ½ to T. C. Steven. Hand-operated, tube-bending machine. 3,023,650, 3–6–62, Cl. 81—15.
Sallach, Max E., to Addressograph-Multigraph Corp. Punching machines. 3,069,075, 12–18–62, Cl. 234—34.
Sallach, Max E., and J. I. Smith, to Addressograph-Multigraph Corp. Comparison devices. 3,027,070, 3–27–62, Cl. 235—61.7.
Sallach, Robert A.: *See—*
Silverman, Louis, and Sallach. 3,044,869.
Salle, Julien: *See—*
Pesson, Marcel, and Salle. 3,034,961.
Saller, Henry A.: *See—*
Stacy, John T., and Saller. 3,047,484.
Stacy, John T., Saller, and Porembka. 3,032,492.
Saller, Marjorie A.: *See—*
Stacy, John T. 3,032,492.
Sallinen, Antti P. Archive facilities for the recording of documents, cards and similar material. 3,037,832, 6–5–62, Cl. 312—305.
Sallo, Jerome S.: *See—*
Tsu, Ignatius, and Sallo. 3,031,386.
Tsu, Ignatius, Sallo, Fisher, and Modi. 3,032,485.
Sallo, Jerome S., R. D. Fisher, I. Tsu, and H. J. Modi, to the National Cash Register Co. Electrolytic bath for use in electrodeposition of ferromagnetic compositions. 3,032,486, 5–1–62, Cl. 204—43.
Salmanson & Co., Inc.: *See—*
Tydor, Fred. 3,031,228.
Salmassy, Sherwood: *See—*
Melill, Joseph, and Salmassy. 3,061,487.
Salminen, Ilmari F.: *See—*
Barr, Charles R., Heun, and Salminen. 3,043,694.
Weissberger, Arnold, Loria, and Salminen. 3,062,653.
Salminen, Wilho M., and W. J. Weyerts, to Eastman Kodak Co. Photographic film with antistatic layer. 3,062,649, 11–6–62, Cl. 96—87.
Salmon, Benjamin J. M.: *See—*
Bertin, Jean H., and Salmon. 3,032,155.
Bertin, Jean H., and Salmon. 3,034,769.
Salmon, Buster O., to Hoerner Boxes, Inc. Window glass package. 3,050,234, 8–21–62, Cl. 229—51.
Salmon, David F., and J. T. Zinn, to Avco Corp. Blueprint folding machine. 3,048,389, 8–7–62, Cl. 270—63.
Salmon, David F., and J. T. Zinn, to Avco Corp. Blueprint folding machine. 3,048,390, 8–7–62, Cl. 270—73.
Salmon, John R.: *See—*
Caskey, Lutha M., and Salmon. 3,028,669.
Salmon, Peter J., Co., Inc.: *See—*
Carlstedt, Ragnar L. 3,033,062.
Salmon, Peter L., to Binghamton Container Co., Inc. Container. 3,040,954, 6–26–62, Cl. 229—23.
Salna, Karl, to The Frank G. Hough Co. Planetary type axle assembly. 3,043,155, 7–10–62, Cl. 74—391.
Salna, Karl, to The Frank G. Hough Co. Motor vehicle axle support. 3,047,308, 7–31–62, Cl. 280—111.
Salo, Kenneth C. Self leveling tractor and implement seat. 3,021,107, 2–13–62, Cl. 248—376.
Salone, Bernice G.: *See—*
Hayter, Richard B. 3,023,003.
Salone, Edward M.: *See—*
Hayter, Richard B. 3,023,003.
Salowe, Seymour: *See—*
Schmidt, Warren J., and Salowe. 3,058,223.
Salsbury Corp.: *See—*
Thostenson, Lewis D. 3,066,546.
Salsbury, Jason M., S. Kaizerman, and G. Mino, to American Cyanamid Co. Graft polymerization process. 3,046,078, 7–24–62, Cl. 8—116.
Salsbury's, Dr., Laboratories: *See—*
Wylde, Arthur W. 3,015,606.
Salt, Albert E., to Imperial Chemical Industries Ltd. Welding rods. 3,035,334, 5–22–62, Cl. 29—182.
Salt, Frederick W., to The British Iron and Steel Research Association. Process and bath for electrosmoothing ferrous metals. 3,054,737, 9–18–62, Cl. 204—140.5.
Saltarelli, Eugene A., and W. H. Bergdorf, to United States of America, Air Force. Method of using oxalic acid as a cooling agent. 3,029,598, 4–17–62, Cl. 60—35.3.
Salter Corp., The: *See—*
Sifferd, Robert H. 3,038,899.
Salter, Douglas R., and R. A. Brown, to Hickok Mfg. Co. Inc. Magnetic belt buckle. 3,063,118, 11–13–62, Cl. 24—201.
Salter, George, & Co. Ltd.: *See—*
Perry, Arthur H. 3,030,097.
Saltesea Packing Co.: *See—*
Warren, John A., Anderson, and Tichenor. 3,041,178.
Saltman, William M., to The Goodyear Tire & Rubber Co. Preparation of cis 1,4 polyisoprene. 3,026,313, 3–20–62, Cl. 260—94.3.
Saltz, Fred, and E. J. Grenchus, to International Business Machines Corp. Wire printer. 3,018,722, 1–30–62, Cl. 101—93.
Saltz, Fred, and J. P. Hammer, to International Business Machines Corp. Capacitor comparing device. 3,055,581, 9–25–62, Cl. 235—61.7.
Saltz, Morris A. Apparatus for inserting hooks in drapery and the like. 3,040,326, 6–26–62, Cl. 1—346.
Saltzberg, Burton R., to Bell Telephone Laboratories, Inc. Redundant logic circuitry. 3,016,517, 1–9–62, Cl. 340—147.
Saltzman, Curtis D. Water meter accessory. 3,059,849, 10–23–62, Cl. 235—91.
Saltzman, Harold: *See—*
Blasberg, Lawrence A., Perry, and Saltzman. 3,022,475.
Saltzman, Samuel M., and T. D. MacCoun. Automatic simulated racing game. 3,068,008, 12–11–62, Cl. 273—86.
Salutsky, Murrell L., and G. L. Bridger, to W. R. Grace & Co. Desalting sea water. 3,042,606, 7–3–62, Cl. 210—28.
Salvador, Van J. Hutch for garbage, trash or other articles. 3,059,838, 10–23–62, Cl. 232—43.2.
Salvajor Co., The: *See—*
Sherman, George O. 3,017,125.
Sherman, George O. 3,033,368.
Salvatore, Clemente M.: *See—*
Matzen, Julius C., and Salvatore. 3,030,082.
Salvatori, Henry, and C. H. Savit, to Western Geophysical Co. of America. Variable delay line. 3,020,521, 2–6–62, Cl. 340—15.
Salvatori, Henry, and A. D. Bates, to Western Geophysical Co. of America. Method and apparatus for oscillograph recordings. 3,024,079, 3–6–62, Cl. 346—109.
Salvatori, Henry, M. J. Wells, and H. Glenn, to Western Geophysical Co. of America. Multi-channel recording apparatus. 3,030,597, 7–17–62, Cl. 340—15.
Salvatori, Philip L., to Obrig Laboratories Inc. Bifocal marking device for contact lens blanks. 3,046,668, 7–31–62, Cl. 33—174.
Salvesen, Robert H.: *See—*
Boenau, Arthur H., Bruins, and Salvesen. 3,062,771.
Salvucci, Anthony R. Hand truck. 3,064,990, 11–20–62, Cl. 280—47.2.
Salzberg, Edward, to Microwave Development Laboratories, Inc. Microwave frequency selective apparatus. 3,027,525, 3–27–62, Cl. 333—73.
Salzberg, Harold K., to The Borden Co. Planographic printing plate. 3,017,826, 1–23–62, Cl. 101—149.2.
Salzberg, Harold K., and M. R. Simonds, to The Borden Co. Seedmeal protein composition. 3,018,280, 1–23–62, Cl. 260—119.
Salzer, John L.: *See—*
Wittel, Otto, and Salzer. 3,016,620.
Salzer, Richard I.: *See—*
Philbin, James P., and Salzer. 3,046,535.
Salzman, Jacob: *See—*
Small, Samuel N. 3,047,688.

Salzmann, Erhard, to Zeller Plastik Koehn, Grabner & Co. Closure for bottles and containers. 3,057,503, 10–9–62, Cl. 215—48.

Salzmann, Ferdinand F.: *See*—
Graber, Joseph V., and Salzmann. 3,029,465.
Graber, Joseph V., and Salzmann. 3,049,176.

Salzmann, Gunther: *See*—
Lutz, Rudolf, and Salzmann. 3,052,355.

Salzmann, Jean L., to Societe Anonyme de Telecommunications. Ring modulator system. 3,056,095, 9–25–62, Cl. 332—47.

Sam, Mehdi. Portable washing machine. 3,065,621, 11–27–62, Cl. 68—148.

Samann, Julius. Container for volatile substances. 3,065,915, 11–27–62, Cl. 239—35.

Samara, Jake G. Packaging and reconstituting food products. 3,027,261, 3–27–62, Cl. 99—171.

Samborski, Thaddeus J. Device for accurately positioning machine tool components. 3,068,363, 12–11–62, Cl. 250—234.

Sambursky, Ezra W. Lunch bucket. 3,052,345, 9–4–62, Cl. 206—4.

Samcoe Holding Corp.: *See*—
Cohn, Samuel and E., and Catallo. 3,065,551.

Samelson, Klaus: *See*—
Bauer, Friedrich L., and Samelson. 3,047,228.

Samet, Frank, to General Precision Inc. Rotor speed control apparatus. 3,055,635, 9–25–62, Cl. 253—82.

Samhammer, Donald F., and E. B. Lear, to Chicago Pneumatic Tool Co. Universal hydraulic drill positioner. 3,021,099, 2–13–62, Cl. 248—16.

Samhammer, Donald F., and G. E. Hepola, to Chicago Pneumatic Tool Co. Shaft jumbo drill apparatus. 3,061,023, 10–30–62, Cl. 175—86.

Samlea Corp.: *See*—
Shimkus, Robert A. 3,051,068.
Tibbetts, Raymond E., and Gilkeson. 3,069,972.

Samiran, David. Quick acting bolt having radially contractable thread thereon. 3,022,699, 2–27–62, Cl. 85—1.

Samman, Gerard E. F., and G. Duruy, to Shell Oil Co. Noncorrosive composition. 3,070,454, 12–25–62, Cl. 106—278.

Sammarco, Peter: *See*—
Everett, Charles V., and Sammarco. 3,061,334.

Sammis, John C., R. F. Newton, and A. M. MacLennan, to Lockheed Aircraft Corp. Impact recorder. 3,059,235, 10–16–62, Cl. 346—7.

Sammon, David C.: *See*—
Barrer, Richard M., and Sammon. 3,059,993.

Sammons, George D., to Phillips Petroleum Co. Solid composite propellants containing diamine denitrates. 3,024,-144, 3–6–62, Cl. 149—19.

Sammons, George D., to Phillips Petroleum Co. Composite propellant containing burning rate depressant and method of use. 3,026,672, 3–27–62, Cl. 60—35.4.

Sammons, George D., to Phillips Petroleum Co. Composite propellants containing modifying agents. 3,027,282, 3–27–62, Cl. 52—5.

Sammons, George D., to Phillips Petroleum Co. Ammonium perchlorate propellants containing a burning rate depressant. 3,027,284, 3–27–62, Cl. 149—19.

Sammons, George D., and R. C. Doss, to Phillips Petroleum Co. Solid propellant compositions. 3,024,143, 3–6–62, Cl. 149—19.

Sammons, Herbert, to D. Napier & Son Ltd. Mounting system of aircraft power plants. 3,028,124, 4–3–62, Cl. 244—54.

Samms, Adolphus. Air frame center support. 3,048,107, 8–7–62, Cl. 102—49.

Samo, Harvey W.: *See*—
Wolfe, Howard, and Samo. 3,068,613.

Samol, Herbert, to Deutsche Erdol-Aktiengesellschaft. Magnetic grappling mechanism for lost well drilling apparatus. 3,020,977, 2–6–62, Cl. 294—86.5.

Samour, Carlos M., to The Kendall Co. Adhesive comprising elastomer and copolymer of endo-diene bicycloheptadiene and a terpene. 3,058,930, 10–16–62, Cl. 260—4.

Samour, Carlos M., to The Kendall Co. Terpene containing polymers. 3,058,964, 10–16–62, Cl. 260—88.2.

Sampietro, Achille C. Automobile wheel suspension systems. 3,019,029, 1–30–62, Cl. 280—124.

Sampietro, Achille C. Automobile wheel suspension systems. 3,020,968, 2–13–62, Cl. 180—73.

Sampietro, Achilles C., to Thompson Ramo-Wooldridge Inc. Brake control system. 3,022,114, 2–20–62, Cl. 303—21.

Sampietro, Achilles C., to Thompson Ramo Wooldridge Inc. Valve spring retaining means. 3,033,518, 5–8–62, Cl. 251—337.

Sampietro, Achilles C., to Thompson Ramo Wooldridge Inc. Valve operating means. 3,045,657, 7–24–62, Cl. 123—90.

Sampietro, Achilles C., to Thompson Ramp Wooldridge Inc. Valve operating mechanism. 3,045,658, 7–24–62, Cl. 123—90.

Sampietro, Achille C. Front wheel suspension systems for automobile vehicles. 3,045,773, 7–24–62, Cl. 180—43.

Sampietro, Achilles C., and J. E. Yingst, to Thompson Ramo Wooldridge Inc. Air cooling system. 3,052,106, 9–4–62, Cl. 62—402.

Samples, Randall H., and L. E. Hilbert, to Union Carbide Corp. Halogenation of organic compounds over a narrow temperature range. 3,054,831, 9–18–62, Cl. 260—654.

Sampsell, Frederick H. Door trim. 3,046,616, 7–31–62, Cl. 20—11.

Sampson, Arnold. Surgical suturing instrument. 3,017,637, 1–23–62, Cl. 1—50.

Sampson, Ernest S.: *See*—
Summerhayes, Harry R., Jr., and Sampson. 3,021,385.

Sampson, Ernest S., to General Electric Co. Non-contacting crop shear detector. 3,033,991, 5–8–62, Cl. 250—219.

Sampson, Frederick W., to General Motors Corp. Friction gear throttle control. 3,062,311, 11–6–62, Cl. 180—82.1. material. 3,067,493, 12–11–62, Cl. 29—182.5.

Sampson, Herbert F. Stabilizing device for underwater camera. 3,017,817, 1–23–62, Cl. 95—86.

Sampson, Herbert F. Underwater camera construction. 3,065,666, 11–27–62, Cl. 88—16.

Sampson, James C.: *See*—
Van Alstyne, Alvin G., and Sampson. 3,050,708.

Sampson, Lorne G., to Mystik Adhesive Products, Inc. Method for preparing a corrosion-inhibiting resinous coating composition. 3,035,005, 5–15–62, Cl. 260—31.8.

Sampson, Merrit B.: *See*—
Cook, Charles W., and Sampson. 3,025,836.

Sampson, Merritt B., to The S-P Mfg. Corp. High pressure seal for a fluid actuator. 3,055,670, 9–25–62, Cl. 277—168.

Sampson, Richard E., to Bigelow-Liptak Corp. Furnace. 3,063,686, 11–27–62, Cl. 110—7.

Sampson, Rodney T., to Diebold, Inc. Register cards for assignment of account numbers in simultaneous alphabetic-numeric sequence. 3,047,312, 7–31–62, Cl. 283—36.

Sampson, William J. Pressure bar wood saw. 3,021,597, 2–20–62, Cl. 30—166.

Sams, Conrad W. Water-cooled grid structure. 3,027,881, 4–3–62, Cl. 122—373.

Sams, Martin, and H. Feldman. Electrical terminal. 3,064,-227, 11–13–62, Cl. 339—95.

Sams, Robert H., and C. H. Jeglum, to Philadelphia Quartz Co. Self-releasing adhesives. 3,034,909, 5–15–62, Cl. 106—80.

Samsel, Gene L.: *See*—
Le Baron, Ira M., and Samsel. 3,022,889.

Samsel, Richard W.: *See*—
Le Pierre, Cramer W., Cochran, Janssen, Powell, and Samsel. 3,067,281.

Samson Cordage Works: *See*—
Fogden, Kenneth L. 3,035,476.

Samson, Ralph L.: *See*—
Spitz, Theodore S., Zahner, and Samson. 3,021,516.

Samson, Ralph L., to Curtiss-Wright Corp. Simulated radio navigational aids marker receiver. 3,020,649, 2–13–62, Cl. 35—10.2.

Samson, Ralph L., to Curtiss-Wright Corp. Multiple chart course tracing system. 3,036,303, 5–22–62, Cl. 346—8.

Samuel, Chester J. Exercise device. 3,069,162, 12–18–62, Cl. 272—93.

Samuel, George A., to Alloy Surfaces Co., Inc. Chromizing with improved utilization of gas. 3,066,044, 11–27–62, Cl. 117—107.

Samuel, George A., J. V. Bell, A. W. Grosvenor, and J. G. Jackson, to Alloy Surfaces Co., Inc. Chromizing. 3,021,-231, 2–13–62, Cl. 117—107.

Samuel, George A., and J. V. Bell, to Alloy Surfaces Co., Inc. Chromizing with heat treatment. 3,059,911, 10–23–62, Cl. 266—4.

Samuel, Hubert D., Jr., and M. N. Miller, to Fairchild Stratos Corp. Delayed pneumatic actuator. 3,023,740, 3–6–62, Cl. 121—38.

Samuel, Robert L., to Chromalloy Corp. Metallic diffusion processes. 3,061,462, 10–30–62, Cl. 117—107.

Samuel, Robert L., to Chromalloy Corp. Metallic diffusion. 3,061,463, 10–30–62, Cl. 117—107.

Samuel, Robert L., and N. A. Lockington, to Chromalloy Corp. Process for the production of metallic borides on the surface of metals. 3,029,162, 4–10–62, Cl. 117—107.

Samuel Stamping & Enameling Co.: *See*—
Kimberley, Walter R. 3,046,974.
Kimberley, Walter R. 3,051,158.

Samuels, Abe. Automatic foot measuring device. 3,066,417, 12–4–62, Cl. 33—3.

Samuels, Garland, Jr.: *See*—
Furgerson, William T., and Samuels. 3,027,143.

Samuelsen, Eirik, to Chematur, Aktiebolaget, and Norsk Sprengstof-industria A/S. Continuous trinitrotoluene manufacture. 3,034,867, 5–15–62, Cl. 23—266.

Samuely, Max, to Tubular Structures Corp. of America. Portable builder's hoist. 3,036,435, 5–29–62, Cl. 60—53.

Samwel, Johannes A.: *See*—
Heijn, Herman J., Klinkhamer, Samwel, and De Miranda. 3,020,117.
Heijn, Herman J., Samwel, and Tulp. 3,053,994.

Sana-Silver Corp.: *See*—
Degoil, Werner J. 3,035,968.

Sanborn Co.: *See*—
Shalek, Joel E. 3,053,110.

Sanborn, Frederick D., Jr.: *See*—
Barr, William R., Moore, Keith, and Sanborn. 3,057,-271.

Sanborn, Jere L., to International Business Machines Corp. Superconductor circuits. 3,019,349, 1–30–62, Cl. 307—88.5.

Sanborn, Lester A. Hand control apparatus. 3,058,260, 10–16–62, Cl. 46—77.

Sanborn, Lewis B.: *See*—
Istel, Jacques A., and Sanborn. 3,043,543.

Sanborn, Paul F. Sawmill. 3,068,914, 12–18–62, Cl. 143—118.

Sanborn, William L., to Bell & Gossett Co. Continuous proportional blender. 3,064,307, 11–20–62, Cl. 18—2.
Sancor Corp., The: *See*—
Lindsey, Edward C. 3,059,515.
Sand, Robert E., to General Electric Co. Plug-in surface unit. 3,021,414, 2–13–62, Cl. 219—37.
Sand, Robert E., to General Electric Co. Oven heating unit support. 3,024,346, 3–6–62, Cl. 219—37.
Sandahl, Alfred M. Attachment for automatic bowling pin setter. 3,031,190, 4–24–62, Cl. 273—43.
Sandall, Lloyd R. End shoe for a cutter bar. 3,043,081. 7–10–62, Cl. 56—314.
Sandback, Irving C.: *See*—
Brewer, Silas H., Harris, and Sandback. 3,029,699.
Cox, Arthur, and Sandback. 3,020,804.
Harris, Thomas L, and Sandback. 3,059,532.
Johnson, Walter J., and Sandback. 3,065,671.
Sandback, Irving C., to Bell & Howell Co. Wide angle objective. 3,023,672, 3–6–62, Cl. 88—57.
Sandbank, Carl P., to International Standard Electric Corp. Electron discharge devices. 3,066,236, 11–27–62, Cl. 313—250.
Sandberg, Carl: *See*—
Landrum, Billy F., and Sandberg. 3,043,815.
Sandberg, Carl L., P. I. Roth, and J. M. Mullins, to Minnesota Mining and Mfg. Co. Lubricating oil compositions. 3,046,-226, 7–24–62, Cl. 252—57.
Sandberg, Carlyle C. Safety device for banks or the like. 3,046,914, 7–31–62, Cl. 109—5.
Sandberg, Irwin W., to Bell Telephone Laboratories, Inc. Active multiport networks. 3,041,557, 6–26–62, Cl. 333—80.
Sandberg, Irwin W., to Bell Telephone Laboratories, Inc. Active multiport networks. 3,045,194, 7–17–62, Cl. 333—80.
Sandberg, Irwin W., to Bell Telephone Laboratories, Inc. Active multiport networks. 3,046,504, 7–24–62, Cl. 333—80.
Sandberg, Irwin W., to Bell Telephone Laboratories, Inc. Active two-port network. 3,051,920, 8–28–62, Cl. 333—80.
Sandberg, John W.: *See*—
Edmundson, Warren F. 3,044,410.
Sandberg, Nels H.: *See*—
Guyer, Reynolds, and Sandberg. 3,020,809.
Sandberg, Nels H., to Waldorf Paper Products Co. Method of preparing paper of uniform appearance. 3,057,769, 10–9–62, Cl. 162—4.
Sandberg, Ove H., to Elektrokemisk A/S. Process for producing electrode paste. 3,065,094, 11–20–62, Cl. 106—284.
Sandefur, George. Spring mounted fifth wheel. 3,020,065, 2–6–62, Cl. 280—439.
Sanden, Kurt: *See*—
Seeliger, Ernst, Kebbel and Sanden. 3,058,470.
Sander, Benjamin, and R. C. Rueff, to Nixdorff-Krein Mfg. Co. Apparatus for making swing chain swivel fittings. 3,034,-172, 5–15–62, Cl. 18—5.
Sander, Griswold P. Light weight mud anchor. 3,043,258, 7–10–62. Cl. 114—207.
Sanders Associates, Inc.: *See*—
Butler, Jesse L. 3,031,666.
Butler, Jesse L. 3,044,066.
Gordon, George F. 3,057,952.
Gordon, George F., and Durocher. 3,025,339.
Hawes, Russell B. 3,025,024.
Hayner, Paul F., Thompson, Walker, Pfeifer, Campman, and Boothroyd. 3,026,638.
Laimond, Harold W., and Nalette. 3,069,753.
Mercer, William R., and Dollinger. 3,045,232.
Richmond, Martin R., and Dollinger. 3,044,061.
Stearns, Thomas H. 3,070,650.
Walker, Clifford R., and Goldsby. 3,058,441.
Wilson, William J. 3,046,505.
Sanders, Benjamin E.: *See*—
Spicer, Daniel S., Smith, and Sanders. 3,038,838.
Sanders, Benjamin F. Recoverable tamping plug. 3,041,973, 7–3–62, Cl. 102—30.
Sanders, Charles J., to Paper Converting Machine Co., Inc. Valve structure. 3,064,862, 11–20–62, Cl. 222—193.
Sanders, Donald P., to Philco Corp. Semiconductor device fabrication. 3,024,179, 3–6–62, Cl. 204—143.
Sanders, Donald P., to Philco Corp. Jet plating method of manufacture of micro-alloy transistors. 3,032,484, 5–1–62, 204—15.
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Sanders, Grady H., and E. D. Jones, deceased (S. C. Jones, administratrix), to Deering Milliken Research Corp. Builder motion. 3,019,588, 2–6–62, Cl. 57—99.
Sanders, Guy J., C. N. Rink, and A. Oppenheim, to Industrial Acoustics Co., Inc. Noise attenuating apparatus. 3,033,-307, 5–8–62, Cl. 181—59.
Sanders, Hiram R., Jr., and A. J. Morway, to Esso Research and Engineering Co. Residual fuels containing insoluble additives. 3,036,901, 5–29–62, Cl. 44—51.
Sanders, Horace F., and J. D. Breadner, to Bell Engineering (Slough) Ltd. Box making machines. 3,031,936, 5–1–62, Cl. 93—51.
Sanders, Joe M. Gas bottle rack. 3,065,857, 11–27–62, Cl. 211—71.
Sanders, John C. Solar rocket with pebble bed heat exchanger. 3,064,418, 11–20–62, Cl. 60—26.
Sanders, John H., to The Dow Chemical Co. Wet spinning synthetic fibers. 3,061,402, 10–30–62, Cl. 18—54.
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Sanders, Kenneth R. Amusement device. 3,017,181, 1–16–62, Cl. 272—76.
Sanders, Norman T.: *See*—
Duffin, Bernard G., and Sanders. 3,019,500.
Sanders, Norman T., to Needle Industries Ltd. Counting devices for use with knitting needles. 3,039,684, 6–19–62, Cl. 235—117.
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Sanders, Philip F., to E. I. du Pont de Nemours and Co. Butadiene-styrene copolymer-cement composition and method of preparation. 3,043,790, 7–10–62, Cl. 260—29.7.
Sanders, Ralph N. Wrecking bar. 3,041,042, 6–26–62, Cl. 254—130.
Sanders, Ray W.: *See*—
Green, David J., Van Alstyne, Moore, Sanders, Bonness, Noland, and Olson. 3,031,658.
Lehan, Frank W., Sanders, and Newberry. 3,030,614.
Lehan, Frank W., Sanders, and Newberry. 3,063,017.
Sanders, Roy Y., Jr. Marked pharmaceutical tablet and method of marking the same. 3,015,609, 1–2–62, Cl. 167—82.
Sanders, Roy Y., Jr. Marked pharmaceutical tablet. 3,015,-610. 1–2–62, Cl. 167—82.
Sanders, Russell F.: *See*—
Dietrich, Howard H., and Sanders. 3,062,312.
Sanders, Theodorus P. W., and H. W. H. M. Roncken, to Chemische Fabriek L. van der Grinten N.V. One-component diazotype material. 3,016,298, 1–9–62, Cl. 96—75.
Sanders, Victor M.: *See*—
Brown, Robert B., Brady, and Sanders. 3,033,490.
Sanders, W. H., (Electronics) Ltd: *See*—
Long, John J. 3,047,198.
Sanders, Walter, and R. Hopper, Jr. Liquid pressure controlling apparatus. 3,053,435, 9–11–62, Cl. 230—52.
Sanderson, Albert E., to Aircraft Radio Corp. Symmetrical clipping circuit with Zener diode. 3,064,143, 11–13–62, Cl. 307—88.5.
Sanderson, Carl C., ½ to T. D. Morrow. Overload coupling for lawn mower blade. 3,050,923, 8–28–62, Cl. 56—25.4.
Sanderson, J. B. Animal securing gate for stock chute. 3,030,921, 4–24–62, Cl. 119—98.
Sanderson, James C.: *See*—
Beale, Evelyn S. L., and Sanderson. 3,056,384.
Sanderson, James J., to E. I. du Pont de Nemours, and Co. Aqueous coating composition containing an acrylic resin and an organic solvent and substrate coated therewith. 3,032,-521, 5–1–62, Cl. 260—29.6.
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Sanderson, James J., to E. I. du Pont de Nemours and Co. Coating composition comprising methyl methacrylate copolymer and nitrocelluiose. 3,055,851, 9–25–62, Cl. 260—17.
Sanderson, Martin I.: *See*—
Bradshaw, Harold G., and Sanderson. 3,058,278.
Sanderson & Murray, Ltd.: *See*—
Davidson, Maxwell W. 3,057,290.
Sanderson, Robert W., A. F. Furchis, and W. J. Payne, to Ford Motor Co. Fluid separator. 3,028,716, 4–10–62, Cl. 183—2.5.
Sanderson, Walter H.: *See*—
Ballantyne, Charles R., and Sanderson. 3,041,148.
Sanderson, Walter H., Jr., to United States of America, Navy. Rotor blade retaining device. 3,023,998, 3–6–62, Cl. 253—39.
Sanderson, William M., to The Goodyear Tire & Rubber Co. Safety tubeless tire construction. 3,025,902, 3–20–62, Cl. 152—340.
Sandercock, William T.: *See*—
Charles, Geoffrey R. S., and Sanderson. 3,066,501.
Sandford, Robert M., to Phillips Petroleum Co. Underground storage. 3,023,619, 3–6–62, Cl. 73—299.
Sandhage, Ellsworth R., and W. H. Marlow, to American Cyanamid Co. Sealing hard shell capsules. 3,025,652, 3–20–62, Cl. 53—390.
Sandholdt, Frederick G.: *See*—
Camp, John E., Mueller, Sandholdt, and Haywood. 3,020,139.
Sandie, Joseph K.: *See*—
Willcockson, George W., and Sandie. 3,024,265.
Willcockson, George W., and Sandie. 3,045,039.
Sandie, Robert D. R., to Die Casters Ltd. Nozzles or jets for rotary sprinklers. 3,038,667, 6–12–62, Cl. 239—257.
Sandifer, Jesse J.: *See*—
Dipprey, James C., and Sandifer. 3,037,331.
Sandiford, Burton B., to Union Oil Co. of California. Method for increasing the permeability of subterranean formations. 3,018,826, 1–30–62, Cl. 166—9.
Sandin, Jerome: *See*—
Karlicek, Robert F., and Sandin. 3,018,416.
Reuther, John F., and Sandin. 3,058,036.
Sandin, Jerome, to Westinghouse Electric Corp. Circuit interrupter system utilizing static devices. 3,058,034, 10–9–62, Cl. 317—9.

Sandler, Robert A., to Continental Copper & Steel Industries, Inc. Vapor liquid contacting devices. 3,025,041, 3–13–62, Cl. 261—114.

Sandler, Stanley R. : *See—*
Tsou, Kwan C., Sandler, and Astrup. 3,069,459.

Sandlin, Roy E., Jr. Balloon choker device. 3,055,616, 9–25–62, Cl. 244—31.

Sandmann, Emil, to A. Ziemann, G.m.b.H. Straining vat. 3,039,611, 6–19–62, Cl. 210—200.

Sandmeier, Henry A. : *See—*
Spinrad, Bernard I., Sandmeier, and Martens. 3,070,538.

Sandmeier, Walter J. : *See—*
Fierce, William L., and Sandner. 3,020,126.
Fierce, William L., and Sandner. 3,020,246.
Fierce, William L., and Sandner. 3,028,413.
Fierce, William L., and Sandner. 3,033,894.
Fierce, William L., and Sandner. 3,042,705.
Fierce, William L., and Sandner. 3,056,751.
Fierce, William L., and Sandner. 3,056,826.
Fierce, William L., and Sandner. 3,057,808.
Fierce, William L., and Sandner. 3,057,906.
Fierce, William L., Sandner, and Weichman. 3,037,036.
Fierce, William L., Sandner, and Weichman. 3,037,055.

Sandor, Bela : *See—*
Johnstone, Theodore H., Dully, and Sandor. 3,069,889.

Sandor, Bela T., and S. Talas, to Scottish Mechanical Light Industries Ltd. Pelleting machine. 3,052,923, 9–11–62, Cl. 18—20.

Sandor, George N. : *See—*
Faeber, Harry W., and Sandor. 3,037,557.

Sandor, Leslie T., to Kennedy Van Saun Mfg. & Eng. Corp. Overload responsive thrust mechanisms. 3,027,553, 3–27–62, Cl. 340—269.

Sandor, Michael : *See—*
Harrington, John V., Sandor, and Kelley. 3,024,198.

Sandor, William C., to Hoover Ball & Bearing Co. Wire coupling connection. 3,023,037, 2–27–62, Cl. 287—77.

Sandoz A.G. : *See—*
Buecheler, Paul. 3,060,200.
Demagistri, Albert, Ischer, and Wehrli. 3,030,351.
Ehrhardt, Klaus, and Kehrer. 3,036,059.
Fleck, Fritz. 3,031,326.
Geiger, Georg and A., and Pfister. 3,029,249.
Hofmann, Albert, and Frey. 3,056,791.
Jucker, Ernst, and Ebnöther. 3,032,556.
Jucker, Ernst, Ebnöther, Rissi, Vogel, and Steiner. 3,036,065.
Jucker, Ernst, Rissi, and Süess. 3,015,658.
Jucker, Ernst, and Suess. 3,056,796.
Merian, Ernest, Senn, and Wehrli. 3,050,516.
Schuler, Max. 3,022,215.

Sandoz Chemical Works, Inc. : *See—*
Halley, Stanley G. 3,044,938.

Sandoz Ltd. : *See—*
Benz, Jakob, Schneider, and Siegrist. 3,035,043.
Buecheler, Paul. 3,033,880.
Buecheler, Paul. 3,043,846.
Buecheler, Paul. 3,060,200.
Demagistri, Albert, Ischer, and Wehrli. 3,033,846.
Fleck, Fritz. 3,031,326.
Geiger, Georg. 3,023,186.
Geiger, Georg. 3,030,379.
Geiger, Georg and A. 3,051,719.
Geiger, Georg and A., and Pfister. 3,029,249.
Geiger, Georg, and Pfister. 3,065,092.
Guenthard, Jacques. 3,035,058.
Hemmi, Hans M., and Peter. 3,043,648.
Jucker, Ernst, and Lindenmann. 3,041,343.
Jucker, Ernst, Lindenmann, and Rissi. 3,041,342.
Jucker, Ernst, Rissi, and Süess. 3,032,554.
Kraus, Wilhelm J., and Steinemann. 3,041,328.
Leber, Jean P., and Lutz. 3,041,367.
Merian, Ernest, and Mueller. 3,042,478.
Merian, Ernest, and Nicolaus. 3,069,408.
Neier, Reinhard. 3,040,019.
Renz, Jany, Bourquin, Griot, Ruesch, and Schwarb. 3,055,903.
Rutschmann, Jurg. 3,054,802.
Schuler, Max. 3,032,466.
Tamm, Christoph, and Volpp. 3,057,860.
Tamm, Christoph, and Volpp. 3,070,597.

Sandoz Trust : *See—*
Fleck, Fritz. 3,018,287.
Gutzwiller, Ernst. 3,022,307.

Sandretto, Peter C., to International Telephone and Telegraph Corp. Loran receiver. 3,025,518, 3–13–62, Cl. 343—103.

Sandretto, Peter C., to International Telephone and Telegraph Corp. Navigation system. 3,045,234, 7–17–62, Cl. 343—106.

Sandri, Joseph M. : *See—*
Fields, Ellis K., and Sandri. 3,046,314.

Sandridge, Robert L. : *See—*
Gemeinhardt, Paul G., and Sandridge. 3,060,137.

Sandridge, Robert L., and A. S. Morecroft, to Mobay Chemical Co. Cellular polyurethane plastics and preparation of same. 3,067,148, 12–4–62, Cl. 260—2.5.

Sands, Hillard J., to The Harvard Mfg. Co. Divan pull and spring positioning bracket. 3,066,319, 12–4–62, Cl. 5—17.

Sands, Matthew L. : *See—*
Keithley, Joseph F., and Sands. 3,044,398.

Sands, Milo B., to Henry J. Kaiser Co. Cooling systems for devices used in metal refining processes. 3,059,913, 10–23–62, Cl. 266—34.

Sands, Robert A. : *See—*
Flinchbaugh, Rodman F., Huffman, and Sands. 3,022,170.

Sandsto, Bjorn E., to Rixan, Inc. Steel strap cutting tool. 3,058,213, 10–16–62, Cl. 30—134.

Sandstrom, Sixten A., to Siefvert & Fornander, Aktiebolaget. Sliding box. 3,051,366, 8–28–62, Cl. 229—9.

Sandul, Amil. Collapsible fish landing-net. 3,030,725, 4–24–62, Cl. 43—12.

Sandusky, Fred C., to Anchor Hocking Glass Corp. Method and mechanism for handling articles. 3,022,906, 2–27–62, Cl. 214—10.5.

Sandven, Ole A., to Ilkon Corp. Strain gage. 3,060,395, 10–23–62, Cl. 338—2.

Sandvig, Robert L., to Thor Power Tool Co. Drill system with suction removal of cuttings. 3,057,417, 10–9–62, Cl. 175—212.

Sandvik Steel, Inc. : *See—*
Johansson, Oscar E. 3,018,097.
Johansson, Oscar E. 3,042,029.

Sandvikens Jernverks Aktiebolag : *See—*
Almen, Bengt S. O. 3,028,657.
Bernstein, Axel V., and Hedlund. 3,034,379.
Eberman, Carl B., and Sundstedt. 3,029,099.
Hagström, Nils A., and Björnson. 3,059,977.
Hagström, Nils G. A. 3,034,589.
Hjälsten, John A. 3,062,306.
Winnlert, Erik G. N., De Geer, and Berggren. 3,066,711.

Sandy, Charles A., and J. H. Werntz, to E. I. du Pont de Nemours and Co. Mixture of alkali metal salts of fatty acids having improved solubility in liquid hydrocarbons. 3,041,154, 6–26–62, Cl. 44—66.

San Fernando Electric Mfg. Co. : *See—*
Rosenberg, Michael A. 3,042,845.

Sanfor, Elbert A., and G. Warren, to Pfaudler Permutit, Inc. Corrosion resistant coated equipment and method of making the same. 3,051,589, 8–28–62, Cl. 117—70.

Sanford, Charles A., to The American Paper Products Co. Collator. 3,019,012, 1–30–62, Cl. 270—58.

Sanford, Elbert A., and G. Jen Su, to Pfaudler Permutti Inc. Chemical processing equipment. 3,062,685, 11–6–62, Cl. 117—129.

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Sanford, Richard A., and G. E. Price, to Phillips Petroleum Co. Thermochromatographic column. 3,035,383, 5–22–62, Cl. 55—67.

Sanford, Robert S., to International Business Machines Corp. Sequence analyzing circuit. 3,035,247, 5–15–62, Cl. 340—147.

Sanford, Roy S. : *See—*
Eames, James O. 3,040,845.
Hagan, Albert W. 3,040,958.

Sanford, Roy S., and J. O. Eames, to R. S. Sanford, W. A. Eaton, E. D. Sedergren, R. H. Casler, and J. O. Eames. Liquid cooled frictional mechanism. 3,055,458, 9–25–62, Cl. 188—264.

Sanford, Stuart P., to Westinghouse Electric Corp. Carton and closure means therefor. 3,048,321, 8–7–62. Cl. 229—27.

San Francisco Research Corp. : *See—*
Parker, Leon O. 3,040,740.

San Gabriel Ready Mixed : *See—*
Brugmann, John B. 3,018,880.

Sangamo Electric Co. : *See—*
Becker, Dale F. 3,024,416.
Crouchman, Alan J. 3,057,198.
Lovegrove, Henry J. 3,041,438.
Patton, Charles C. 3,067,362.

Sanger, Merle J. : *See—*
Gmitter, George T., Maxey, and Sanger. 3,021,290.

Sanger, Otto : *See—*
Flach, Hans-Georg, and Sanger. 3,057,276.
Leitz, Ludwig, Broschke, and Sanger. 3,028,784.

Sanger, Raymund, and H.-R. Pruppacher, to Machine Tool Works Oerlikon, Administration Co. Method of artificially influencing the weather. 3,056,556, 10–2–62, Cl. 239—2.

Sanglas Casanovas, Jose M. Creel for the feeding of spinning machines with cans of drawing frame sliver. 3,044,245, 7–17–62, Cl. 57—36.

Sangster, Raymond C. : *See—*
Adcock, Willis A., and Sangster. 3,020,128.

Sangster, Raymond C., to Texas Instruments Inc. Multiport switching valve. 3,044,491, 7–17–62, Cl. 137—625.18.

Sanitary Plastics, Inc. : *See—*
Williams, Frederick P. 3,025,962.

Sanitary Scale Co. : *See—*
Karp, Edward C. 3,059,709.

Sanitor Mfg. Co. : *See—*
Thomasma, John C. and C. W. 3,037,717.

Sanjo Utility Mfg. Co., Inc. : *See—*
Spielman, Albert. 3,032,273.

San Joaquin Valley Turkey Grower's Association : *See—*
Gum, Rowland H. 3,019,722.

Sankey, Joseph, & Sons Ltd. : *See—*
Haslehurst, Arthur K. 3,040,804.
Leslie, Ivan A. 3,040,682.

Sanko Mishin Kogyo Kabushiki Kaisha : *See*—
Sasaki, Jutaro, 3,049,612.

Sankuer, Raymond F., and J. Riseman, to International Business Machines Corp. Thin magnetic films. 3,055,770, 9–25–62, Cl. 117—71.

Sankyo Co., Ltd. : *See*—
Iwai, Iseki, and Konotsune. 3,062,873.
Miura, Yukichi, and Endo. 3,058,890.
Takahashi, Takeshi. 3,052,609.
Tsuda, Kyosuke, Oki, Nozoe, and Okada. 3,040,036.
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Sankyo Kabushiki Kaisha : *See*—
Ito, Akira, Hamanaka, Takagi, Wada, and Kawada. 3,064,000.

Sanner, Edward, to said E. Sanner and N. E. Sanner as joint tenants. Tablet dispensing device. 3,042,256, 7–3–62, Cl. 221—301.

Sanner, Norbert E. : *See*—
Sanner, Edward. 3,042,256.

Sano, Karel M., and F. J. Van Landeghem, to Gevaert Photo-Producten N.V. Apparatus for unwrapping and dispensing of film sheets. 3,031,187, 4–24–62, Cl. 271—19.

Sano, Naojiro. Head of golf club. 3,068,011, 12–11–62, Cl. 273—174.

Sano, Yoshimoto : *See*—
Hata, Toju, Sugawara, Matsumae, and Sano. 3,067,100.

Sanraku Distillers Co., Inc. : *See*—
Ogawa, Tetsuo, Tsunoda, Okumura, and Ozaki. 3,042,585.

Sans, Salvatore, to Saw Mill River Industries, Inc. Shoe racks. 3,069,020, 12–18–62, Cl. 211—162.

Sanstead, John L. Instrument stand. 3,024,690, 3–13–62, Cl. 84—387.

Sanstrom, Grant H. Wheeled carrier. 3,052,480, 9–4–62, Cl. 280—6.

Sansum, Robert D., to Gerrard Industries Ltd., and Rylands Brothers Ltd. Wire tying machines. 3,039,380, 6–19–62, Cl. 100—12.

Santa Barbara Research Center : *See*—
Haydall, George D., Peterson, and Johnson. 3,052,861.

Santa Clara Frosted Foods Co. : *See*—
Magnuson, Roy M., and Daugherty. 3,036,419.

Santamaria, Jesse J., and B. R. Winborn, Jr., to Ling-Temco-Vought, Inc. Propulsion and control system for multi-engine turbine powered aircraft. 3,068,647, 12–18–62, Cl. 60—39.25.

Santa Monica Aviation, Inc. : *See*—
Savidge, Robert W. 3,025,922.

Santani, Michio : *See*—
Kawamura, Yurio, Tamuki, Takenouchi, Satani, Sakata, and Hanaoka. 3,039,880.

Santarelli, Vincent. Sprayer with pump and screen. 3,034,686, 5–15–62, Cl. 222—189.

Santarelli, Vincent. Pump plunger. 3,044,411, 7–17–62, Cl. 103—153.

Santelli, Thomas R., to Johns-Manville Corp. Method for producing aqueous silanol dispersion by contacting a metal siliconate with a cation exchanger and product thereof. 3,046,242, 7–24–62, Cl. 260—29.2.

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Santelmann, William F., Jr., to Krohn-Hite Laboratories, Inc. Power supply. 3,068,392, 12–11–62, Cl. 321—18.

Santerre, Fernand A. H., to Telemecanique Electrique, La. Device for clamping plates together with impervious jointing. 3,036,673, 5–29–62, Cl. 189—36.

Santi, Harris H., to Rototone, Inc. Acoustical enclosure to simulate organ tones. Re. 25,217, 8–7–62, Cl. 181—31.

Santi, Harris H., to Rototone, Inc. Swiveling acoustical apparatus. 3,022,853, 2–27–62, Cl. 181—27.

Santi, Harris H., to Rototone, Inc. Rotatable acoustical apparatus. 3,057,430, 10–9–62, Cl. 181—27.

Santi, Romano : *See*—
Tonelli, Pietro D., Losco, Rossi, and Santi. 3,026,243.

Santimauro, John F. : *See*—
Woodlock, Paul B., Santimauro, and Vesce. 3,020,279.

Santo, John F. Matrix packing. 3,054,347, 9–18–62, Cl. 101—401.2.

Santoro, Anthony F., and W. P. Hwozdek, to Ethicon, Inc. Dyed surgical gut and process. 3,047,352, 7–31–62, Cl. 8—3.

Santoro, Joseph A. Scaffold structural element. 3,024,866, 3–13–62, Cl. 182—229.

Santow, Seymour : *See*—
Menolasino, Nicholas J., and Belcove. 3,032,179.
Menolasino, Nicholas J., and D. 3,031,819.
Menolasino, Nicholas J. and D. 3,036,703.

Santucci, Michael C. : *See*—
Hamilton, Carl C., and Santucci. 3,055,349.

Sanwa Mishin Seizo Kabushiki Kaisha (Sanwa Sewing Machine Mfg. Co., Ltd.) : *See*—
Fujita, Toshio. 3,020,866.
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Sanymetal Products Co., Inc., The : *See*—
Benham, Kent W. 3,026,559.
Benham, Kent W. 3,056,475.
Benham, Kent W. 3,060,523.
Dielman, Harold J. 3,053,354.

Sanz, Manuel C. Burette. 3,040,931, 6–26–62, Cl. 222—26.

Sanz, Manuel C. Sample holder for photometric analyzing apparatus. 3,053,138, 9–11–62, Cl. 88—14.

Saperstein, Henry G. : *See*—
Peilet, Lester R., Saperstein, and Goldfarb. 3,059,259.

Sapino, Theodore, to Minneapolis-Honeywell Regulator Co. Transformer coupled pulse amplifier. 3,049,630, 8–14–62, Cl. 307—88.5.

Sapiro, Reuben H. : *See*—
Hartley, Wilfred, Craig, and Sapiro. 3,068,065.

Sapit, Donald T., and F. J. Ewers, Jr., to Weston Laboratories, Inc. Fertility tester. 3,017,879, 1–23–62, Cl. 128—2.

Sapolin Paints, Inc. : *See*—
Engel, John P. 3,042,259.

Saporito, Roy J., to Scott Aviation Corp. Process of making a diaphragm. 3,032,462, 5–1–62, Cl. 156—242.

Sapp, John P. : *See*—
Ewing, Bruce W., Mallory, and Sapp. 3,051,220.

Sarafinas, Bruno A., to United-Carr Fastener Corp. Grounding clip. 3,019,409, 1–30–62, Cl. 339—219.

Sarafinas, Bruno A., to United-Carr Fastener Corp. Closure member. 3,021,975, 2–20–62, Cl. 220—60.

Sarafinas, Bruno A., to United-Carr Fastener Corp. Door pan clip. 3,059,299, 10–23–62, Cl. 24—73.

Sarah, Thomas F., to The Enterprise Mfg. Co. Crank-operated drag for spinning reel. 3,025,020, 3–13–62, Cl. 242—84.45.

Sarah, Thomas F., to The Enterprise Mfg. Co. Fishing reel clutch. 3,051,409, 8–28–62, Cl. 242—84.54.

Sarappo, John W., and H. F. Kalbach, to Atlas Chemical Industries, Inc. Purification of polyhydric alcohols. 3,040,104, 6–19–62, Cl. 260—637.

Sarbo, Bruder : *See*—
Sarbo, Edgar G. 3,059,458.

Sarbo, Edgar G., to B. Sarbo. Foot cover and method of manufacturing the same. 3,059,458, 10–23–62, Cl. 66—171.

Sarchia, Chester F., to Furniture Mfg. Co. Lounge chair and construction thereof. 3,061,373, 10–30–62, Cl. 297—418.

Sarchin, Theodore H. Canned rotor system. 3,044,434, 7–17–62, Cl. 115—52.

Sarcone, Gasper, and J. A. Kardys, to Chas. Pfizer & Co., Inc. Tetracycline recovery process. 3,037,973, 6–5–62, Cl. 260—96.5.

Sard, Eugene W., to United States of America, Army. Magnetic core serial adder. 3,043,513, 7–10–62, Cl. 235—176.

Sardelli, Wilfred G., to United States of America, Navy. Wave action function generator. 3,037,298, 6–5–62, Cl. 35—10.2.

Sardinas, Joseph L., to Chas. Pfizer, & Co., Inc. Method of hydroxylating steroids. 3,032,475, 5–1–62, Cl. 195—51.

Sarem, Amir M., to Sinclair Research Inc. Method and apparatus for the determination of the gas-liquid effective permeability ratio of core samples. 3,023,606, 3–6–62, Cl. 73—38.

Sarem, Amir M., to Sinclair Research, Inc. Flow rate measuring device. 3,040,570, 6–26–62, Cl. 73—194.

Sarett, Lewis H. : *See*—
Arth, Glen E., Beyler, and Sarett. 3,054,811.
Arth, Glen E., Beyler, and Sarett. 3,068,250.
Arth, Glen E., and Sarett. 3,039,528.
Brown, Horace D., and Sarett. 3,055,907.
Matzuk, Alexander R., Brown, and Sarett. 3,067,097.
Oberster, Arthur E., Beyler, and Sarett. 3,067,214.
Rogers, Edward F., and Sarett. 3,020,200.
Rogers, Edward F., and Sarett. 3,020,277.
Rogers, Edward F., and Sarett. 3,042,676.
Rogers, Edward F., and Sarett. 3,065,132.
Shen, Tsung Y., Rogers, and Sarett. 3,031,452.

Sarett, Lewis H., and H. D. Brown, to Merck & Co., Inc. Certain benzimidazoles carrying thiazolyl, thiadiazolyl and isothiazolyl substituents in the 2-position. 3,017,415, 1–16–62, Cl. 260—302.

Sarfaty, Emanuel : *See*—
Arnavi, Lamos A., Bilonas, and Sarfaty. 3,042,189.
Midgette, Ernst L., Sarfaty, and Bittner. 3,063,548.

Sargeant, Ralph G. Electrical apparatus for removing water from liquid mixtures. 3,060,297, 10–23–62, Cl. 219—10.65.

Sargent & Co. : *See*—
Pilia, George J. 3,028,892.

Sargent, Donald E. : *See*—
Albus, Charles P., and Sargent. 3,042,524.

Sargent, E. H., & Co. : *See*—
Nielsen, Carl A., Ewen, and Sherrick. 3,015,536.

Sargent Engineering Corp. : *See*—
Nyman, Hugo. 3,024,732.

Sargent & Greenleaf, Inc. : *See*—
Abelson, Arthur, and McKay. 3,058,334.
Fischer, Alfred N. 3,029,326.

Sargent, Herbert, to United States Rubber Co. Tri-γ-thienyl silane. 3,068,241, 12–11–62, Cl. 260—329.

Sargent, John W. : *See*—
Danielson, Richard D., and Sargent. 3,028,321.
Tawney, Pliny O., and Sargent. 3,033,888.

Sargent, Mary J. Infant table. 3,034,153, 5–15–62, Cl. 5—98.

Sargent, Ronald J., to General Motors Corp. Automatic light control. 3,039,020, 6–12–62, Cl. 315—80.

Sargents', C. G., Sons Corp. : *See*—
La Pan, Raymond D. 3,070,415.

Sargis, John R. Distributor point and condenser mechanism. 3,055,992, 9–25–62, Cl. 200—30.

Saricks, Joseph G. : *See*—
Thomas, Orrin H. 3,025,362.

Sariotti, Victor A., and A. J. Tonna, to Burgermeister Brewing Corp. Bottle rinser. 3,064,663, 11–20–62, Cl. 134—125.

Sark, Ward T., to Haggard & Marcusson Co. Bed frame. 3,031,689, 5–1–62, Cl. 5—310.

Sarka, Albert J., to The Wean Engineering Co., Inc. Shearing continuously advancing strip. 3,037,410, 6–5–62, Cl. 83—37.

Sarka, Albert J., to The Wean Engineering Co., Inc. Apparatus for shearing continuously advancing strip. 3,037,412, 6–5–62, Cl. 83—317.

Sarka, Albert J., to The Wean Engineering Co., Inc. Shear and feed means for continuously advancing strip. 3,043,177, 7–10–62, Cl. 83—312.

Sarka, Albert J., to The Wean Engineering Co., Inc. Strip clamping and front stop means for cyclically operable shear. 3,045,519, 7–24–62, Cl. 83—157.

Sarka, Albert J., to The Wean Engineering Co., Inc. Variable feed for strip material to a flying cutter. 3,054,315, 9–18–62, Cl. 83—323.

Sarkar, Asim K.: *See*—
Adams, Dennis A. W., and Sarkar. 3,048,584.
Adams, Dennis A. W., and Sarkar. 3,063,994.

Sarkes Tarzian, Inc.: *See*—
Esanarino, Gene. 3,047,781.
Finn, George B., Jr., and Parsons. 3,051,878.
Miller, Ralph L. 3,066,248.
Valdettaro, Alarico A., Lewis, and Robinson. 3,018,372.

Sarkissian, Parkev, ½ to Baloyan Mills of California, Inc. Method of producing chenille. 3,032,457, 5–1–62, Cl. 156—178.

Sarkus, Noreen T.: *See*—
Sarkus, Philip G. 3,054,122.

Sarkus, Philip G., ½ to N. T. Sarkus. Combined bed tray and night stand. 3,054,122, 9–18–62, Cl. 5—332.

Sarla, Ralph M., to Union Carbide Corp. Semi-continuous electrolytic process. 3,030,285, 4–17–62, Cl. 204—64.

Sarla, Ralph M., to Union Carbide Corp. Method of removing air and water contaminants trapped with the crystal structure of sodium chloride. 3,034,870, 5–15–62, Cl. 23—293.

Sarlls, Lawrence R. K. Stalk crowder attachment for cotton picking machine. 3,035,388, 5–22–62, Cl. 56—42.

Sarlo, Frank J., Jr.: *See*—
Naab, Gerard A., and Sarlo. 3,058,037.

Sarmi, S.A., Societe d'Applications de Recherches Minieres et Industrielles: *See*—
Fumiller, Jacques. 3,049,714.
Bumiller, Jacques. 3,065,560.

Sarnoff, Stanley J. Control systems. 3,070,301, 12–25–62, Cl. 235—151.

Sarnoff, Stanley J., and G. B. Calkins. Medicament and diluent storing, mixing and dispensing device. 3,070,093, 12–25–62, Cl. 128—272.

Sarnoff, Stanley J., and G. B. Calkins. Medicament and diluent storing, mixing and dispensing device. 3,070,094, 12–25–62, Cl. 128—272.

Sarns, William M. Releasable Marine anchor. 3,045,633, 7–24–62, Cl. 114—208.

Sarong Inc.: *See*—
Amyot, Pierre. 3,024,789.
Child, Marian E. 3,056,411.

Saros, Gus P.: *See*—
Brown, Herbert R., Jr., and Saros. 3,041,775.

Sarosy, Edmund F.: *See*—
Liem, Robert C., and Sarosy. 3,031,221.

Saroyan, John R. Decontamination process utilizing alkali sensitive coatings. 3,063,873, 11–13–62, Cl. 134—4.

Saroyan, John R., and H. D. Dear. Anti-fouling protective coating compositions. 3,033,809, 5–8–62, Cl. 260—27.

Sarracino, Marcello, to Pirelli Societa per Azioni. Apparatus for controlling the tensioning of the tapes in electric cable taping machines. 3,063,228, 11–13–62, Cl. 57—3.

Sarrafian, George P., to Texas Instruments Inc. Memory matrix system. 3,068,452, 12–11–62, Cl. 340—174.

Sarrett, Homer J., Jr.: *See*—
Stratton, Charles A., Pitchford, and Sarrett. 3,028,333.

Sartin, Jarvis G., to Hercules Powder Co. Self-loading and unloading vehicle for palletized loads. 3,066,810, 12–4–62, Cl. 214—92.

Sarto, Jorma O., to Chrysler Corp. Preheater for carburetor inlet air. 3,030,943, 4–24–62, Cl. 123—122.

Sarto, Jorma O., to Chrysler Corp. Chokeless carburetor. 3,044,751, 7–17–62, Cl. 261—23.

Sartomer Resins, Inc.: *See*—
Cornell, John A. 3,061,598.
Cornell, John A. 3,066,110.
Cornell, John A., and Gowman. 3,021,364.

Sartori, Mario F., to E. I. du Pont de Nemours and Co. Disazo dyes for acrylic and polyester fibers. 3,020,272, 2–6–62, Cl. 260—186.

Sartori, Mario F., to E. I. du Pont de Nemours and Co. Cationic monoazo dyes for acrylic and polyester fibers. 3,033,847, 5–8–62, Cl. 260—158.

Sartori, Mario F., to E. I. du Pont de Nemours and Co. Halogeno-dinaphtho-furan-diones. 3,033,879, 5–8–62, Cl. 260—346.2.

Sartorio, Raul R. P.: *See*—
Cardia, Antonio A., and Sartorio. 3,025,845.

Sarukhanian, Georg, to Siemens-Electrogerate Aktiengesellschaft. Refrigerant circulation system. 3,043,119, 7–10–62, Cl. 62—513.

Sarvansky, Gilbert: *See*—
Graham, Harry C. 3,021,772.

Sarver, Paul R. Umbrella holder. 3,021,985, 2–20–62, Cl. 224—5.1.

Sarvis, Warren J.: *See*—
Hansen, Lloyd F., and Sarvis. 3,038,282.

Saryan, Sarkis S.: *See*—
Cohen, Jerome M., and Saryan. 3,027,276.

Sarzin, Julius L., E. Teitscher, I. Steinberg, and L. Weisman, to Sperry Rand Corp., Ford Instrument Co. Division. Pulse position demodulator. 3,025,470, 3–13–62, Cl. 329—107.

Sasaki, Jutaro, to Sanko Mishin Kogyo Kabushiki Kaisha. Lighting apparatus in sewing machines. 3,049,612, 8–14–62, Cl. 240—2.14.

Sasaki, Rentaro, to Oki Electric Industry Co, Ltd. Type members for a high speed printer. 3,041,965, 7–3–62, Cl. 101—111.

Sasaki, Shinichi. Automatic moisture content determination and control apparatus. 3,034,046, 5–8–62, Cl. 324—58.5.

"Sasib" Spa Scipione Innocenti-Bologna: *See*—
Gamberini, Goffredo. 3,059,650.

Saslovsky, Sidney, C. Machover, and E. J. Siff, to United Aircraft Corp. Movable magnetic core force vector summing device. 3,018,965, 1–30–62, Cl. 235—189.

Sasmoco S.A.: *See*—
Neukomm, Serge, and Bonnet. 3,039,475.

Sasmor, Ernest J.: *See*—
Broh-Kahn, Robert H., and Sasmor. 3,069,321.

Sasnett, Russell M., to General Electric Co. Clothes drying machine. 3,031,772, 5–1–62, Cl. 34—82.

Sasnett, Russell M., to General Electric Co. Signalling device for appliances and the like. 3,050,864, 8–28–62, Cl. 34—45.

Sass, Dale H., to Fairmont Foods Co. Folding advertising display. 3,016,644, 1–16–62, Cl. 40—312.

Sass, Frank J.: *See*—
Reimers, James L., and Sass. 3,032,943.

Sassaman, Walter R.: *See*—
Teiser, Sidney, and Sassaman. 3,019,714.
Teiser, Sidney, and Sassaman. 3,028,683.

Sasse, Klaus R. Wegler, and G. Unterstenhöfer, to Farbenfabriken Bayer Aktiengesellschaft. Quinoxolinyl thlophosphoric acid esters. 3,029,237, 4–10–62, Cl. 260—250.

Sasse, Klaus, R. Wegler, G. Unterstenhöfer, and F. Grewe, to Farbenfabriken Bayer Aktiengesellschaft. 2,3-dimercaptoquinoxaline derivatives and process for their manufacture. 3,029,238, 4–10–62, Cl. 260—250.

Sasse, Klaus, R. Wegler, and G. Unterstenhofer, to Bayer Aktiengesellschaft, Farbenfabriken. Quinoxalines and processes for their production. 3,040,046, 6–19–62, Cl. 260—250.

Sassen, Bernard: *See*—
Sporck, Claus L., and Sassen. 3,058,205.

Sassmann, William H., and A. Matthias. Earth handling apparatus. 3,030,714, 4–24–62, Cl. 37—126.

Sassmannshausen, Werner, and O. Niepmann, to Fr. Niepmann & Co., Maschinenfabrik. Feeding device for plastic material, especially explosives for use in connection with packing machines. 3,047,034, 7–31–62, Cl. 141—311.

Satake, Kimihiko: *See*—
Uchida, Ichizo, and Satake. 3,029,346.

Satam-Societe Anonyme Pour Tous Appareillages Mecaniques: *See*—
Blanchet, Andre F. M. 3,040,930.

Satchell, Fred E., to Brunswick Corp. Plastic bowling ball and method of making same. 3,068,007, 12–11–62, Cl. 273—63.

Satchell, Fred E., and L. J. Trier, to Brunswick Corp. Bowling pin. 3,018,106, 1–23–62, Cl. 273—82.

Sather, Delaine C. Limiting circuit for an aircraft control system. 3,040,316, 6–19–62, Cl. 343—108.

Sato, Akihiko, to Nippon Electric Co. Ltd. Transistor. 3,027,502, 3–27–62, Cl. 317—235.

Sato, Akihiko, to Nippon Electric Co. Ltd. Method of machining semiconductors. 3,061,422, 10–30–62, Cl. 51—310.

Sato, Fumio, to Kabushiki Kaisha Okuma Tekkosho. Shifting mechanism between inch and metric system threading feeds for lathes and cutting on machine tools. 3,051,012, 8–28–62, Cl. 74—354.

Sato, Kenichi: *See*—
Ishizuka, Sojiro, and Sato. 3,058,159.

Sato, Kichiro. Subjective optometer. 3,067,647, 12–11–62, Cl. 88—20.

Sato, Makoto: *See*—
Morita, Sadayoshi, and Sato. 3,028,270.

Sato, Minoru: *See*—
Hoshino, Yasushi, and Sato. 3,026,381.
Hoshino, Yasushi, Sato, Namikawa, and Tochihara. 3,022,078.

Sato, Shigenobu: *See*—
Oki, Kikuo, and Sato. 3,031,141.

Sato, Takayoshi, and A. Nakatani, to Kabushiki Kaisha Koparu. Automatic exposure control apparatus for photographic camera. 3,051,064, 8–28–62, Cl. 95—10.

Sato, Tomonori: *See*—
Yabuta, Teijiro, Ikeda, Shiroyanagi, Ikeda, Fujimaki, Katayama, Tsuji, and Sato. 3,049,535.

Satoda, Isao: *See*—
Takahashi, Ogiu, Fujimura, Satoda, Fukui, and Yamamoto. 3,047,573.

Satory, Rodney J.: *See*—
Perkey, Russell C., and Satory. 3,046,740.
Satrametal S.A.: *See*—
Maulaz, Georges. 3,019,936.
Satrum, Clarence F., to Ho-Boy Corp. Battery post clamp of the clip type. 3,064,231, 11–13–62, Cl. 339—228.
Sattarelle, Louis: *See*—
Giampapa, Cirino, and Sattarelle. 3,035,871.
Sattavara, Sven W.: *See*—
Bookout, Charles C., Sattavara, and Taylor. 3,023,579.
Satterly, Kenneth P., to Standard Brands Inc. Reaction of starch with styrene oxide. 3,037,017, 5–29–62, Cl. 260—233.3.
Sattler, Helmut: *See*—
Kurzke, Herbert, and Sattler. 3,030,173.
Sattmann, Erhard, to A. W. Faber-Castell. Ball point pen. 3,030,926, 4–24–62, Cl. 120—42.4.
Satzinger, Gerhard, to Warner-Lambert Pharmaceutical Co. Carboxylic acid derivatives of substituted 4-thiazolidinones. 3,064,003, 11–13–62, Cl. 260—306.7.
Sauber, Charles A.: *See*—
Barrett, Herbert M., and Sauber. 3,025,236.
Sauber, Charles J. Container closure. 3,033,406, 5–8–62, Cl. 215—9.
Sauber, Charles R., to General Dynamics Corp. Electrical apparatus. 3,030,579, 4–17–62, Cl. 324—73.
Sauberlich, Willy, to Goebel G.m.b.H., Maschinenfabrik. Process for the production of shaped inking rollers for steel engraving or intaglio printing. 3,045,591, 7–24–62, Cl. 101—211.
Saucy, Gabriel: *See*—
Isler, Otto, Ruegg, and Saucy. 3,047,634.
Marbet, Roman, and Saucy. 3,029,287.
Marbet, Roman, and Saucy. 3,057,888.
Sauder, Robert A. Tank supporting and turning apparatus. 3,026,838, 3–27–62, Cl. 113—130.
Sauer, Edgar, to Zeiss Ikon Aktiengesellschaft. Photographic camera with coupled exposure meter. 3,034,411, 5–15–62, Cl. 95—10.
Sauer, Edgar, H. Wutzler, and J. Hahn, to Zeiss Ikon Aktiengesellschaft. Photographic camera with automatic exposure control. 3,045,568, 7–24–62, Cl. 95—10.
Sauer, Edgar, W. Gunther, and H. Wutzler, to Zeiss Ikon A.G. Stuttgart. Photographic camera with built-in coupled exposure meter. 3,045,570, 7–24–62, Cl. 95—10.
Sauer, Edgar, and J. Hahn, to Zeiss Ikon Aktiengesellschaft. Camera with automatic exposure control according to time and diaphragm aperture. 3,068,769, 12–18–62, Cl. 95—10.
Sauer, James F.: *See*—
Barber, Harry A., and Sauer. 3,054,334.
Sauer, James F., and L. S. Burns, to Barber-Greene Co. Control circuit for hydraulic power steering skid steer systems. 3,015,971, 1–9–62, Cl. 74—720.5.
Sauer, John C.: *See*—
Howk, Benjamin W., and Sauer. 3,055,949.
Sauer, John E. B., 50% to O. B. Staltz. Ignition and electrical circuit testing device. 3,049,663, 8–14–62, Cl. 324—15.
Sauer, Kenneth W.: *See*—
Cobb, John, Rice, Ross, and Sauer. 3,042,595.
Sauer, Leo. Vehicle with loading device. 3,057,490, 10–9–62, Cl. 214—77.
Sauerbrey, Wilmer J. E., to The Black and Decker Mfg. Co. Overriding safety coupling for spindle of power-driven tool. 3,067,597, 12–11–62, Cl. 64—29.
Saüerbrünn, Irmhild: *See*—
Von Cube, Hans-Ludwig, and Saüerbrünn. 3,034,004.
Sauers, Carol K., and R. J. Cotter, to Union Carbide Corp. Preparation of maleimides. 3,018,290, 1–23–62, Cl. 260—326.5.
Sauers, Carol K., and R. J. Cotter, to Union Carbide Corp. Preparation of maleimides. 3,018,292, 1–23–62, Cl. 260—326.5.
Sauers, Carol K., and R. J. Cotter, to Union Carbide Corp. Preparation of N,N'-disubstituted maleamides. 3,023,240, 2–27–62, Cl. 260—561.
Sauers, Carol K., and R. J. Cotter, to Union Carbide Corp. Isomaleimides and a process for the preparation thereof. 3,035,065, 5–15–62, Cl. 260—343.6.
Sauers, Carol K., and R. J. Cotter, to Union Carbide Corp. Bis-maleamides and a process for their preparation. 3,041,376, 6–26–62, Cl. 260—562.
Sauers, Myrl M., and C. B. McElheny. Lawn mower grinder and sharpener. 3,019,568, 2–6–62, Cl. 51—173.
Sauers, Myrl M., and C. B. McElheny. Power driven slitting shears. 3,025,599, 3–20–62, Cl. 30—228.
Saul & Co.: *See*—
Gutzwiller, Ernst. 3,022,307.
Hofer, Kurt, Hemmi, Peter, and Lutz. 3,033,640.
Stoll, Arthur, Renz, and Von Wartburg. 3,060,169.
Saul, George A.: *See*—
Hamm, Philip C., and Saul. 3,020,141.
Saul, George A., and J. W. Baker, to Monsanto Chemical Co. Phosphonate nematocide. 3,070,490, 12–25–62, Cl. 167—22.
Saulnier, Theodore A., Jr., to Radio Corp. of America. Metallized phosphor screens and method of making same. 3,067,055, 12–4–62, Cl. 117—33.5.
Sauls, Tomas W., and F. J. Wimberly, to Tennessee Corp. Thionyl chloride-carbonyl chloride reaction product. 3,042,490, 7–3–62, Cl. 23—174.
Saums, William A.: *See*—
Grissom, Robert E., and Saums. 3,056,718.
Saumsiegle, Robert W., to Pneumatic Scale Corp., Ltd. Method and apparatus for trimming and sealing plastic bags. 3,015,920, 1–9–62, Cl. 53—44.
Saumsiegle, Robert W., to Pneumatic Scale Corp., Ltd. Apparatus for and method of sealing thermoplastic tubes. 3,063,890, 11–13–62, Cl. 156—306.
Saunders, Charles A. Sling bow. 3,018,770, 1–30–62, Cl. 124—20.
Saunders, Charles E. Catalyst for the decomposition of hydrogen peroxide and method of preparing said catalyst. 3,019,197, 1–30–62, Cl. 252—477.
Saunders, Charles E., Jr., to American Machine & Foundry Co. Remote control manipulator. 3,065,863, 11–27–62, Cl. 214—1.
Saunders, Charles L., Jr.: *See*—
Hall, Raymond L. 3,047,291.
Saunders, Fred S., to Schwitzer Corp. Apparatus for assembling dampers. 3,066,399, 12–4–62, Cl. 29—235.
Saunders, George H.: *See*—
Grangaard, Donald H., and Saunders. 3,024,158.
Saunders, George T., to Kewaunee Mfg. Co. Door for germ-free enclosures. 3,035,315, 5–22–62, Cl. 20—16.
Saunders, Hugh E.: *See*—
Ebbek-Poulsen, Sven, and Saunders. 3,031,272.
Saunders, James B., to United States of America, Commerce. Parallel testing interferometer. 3,031,914, 5–1–62, Cl. 88—14.
Saunders, James B., to United States of America, Commerce. Parallel testing interferometer. 3,034,397, 5–15–62, Cl. 88—14.
Saunders, James B., to United States of America, Commerce. Interferometer for testing large surfaces. 3,043,182, 7–10–62, Cl. 88—14.
Saunders, John A.: *See*—
Keating, James P., and Saunders. 3,044,537.
Keating, James P., and Saunders. 3,044,539.
Saunders, John A., and E. E. Moore, to Eclipse Fuel Engineering Co. Radiant gas burner. 3,050,112, 8–21–62, Cl. 158—109.
Saunders, Kenneth W., and L. L. Lento, Jr., to American Cyanamid Co. Process for the preparation of methylolacrylamide. 3,064,050, 11–13–62, Cl. 260—561.
Saunders, Lawrence J.: *See*—
Wilson, Harry W., and Saunders. 3,053,309.
Saunders, Norman B., to Raytheon Co. Frequency responsive servo system. 3,036,252, 5–22–62, Cl. 318—28.
Saunders, Ralph, to Thermal Closures & Containers Ltd. Containers for perishable goods. 3,029,968, 4–17–62, Cl. 220—16.
Saunders, Rhoderick K., and R. B. Williams, to Esso Research and Engineering Co. Process for conducting quantitative analyses. 3,048,772, 8–7–62, Cl. 324—.5.
Saunders, Robert M. Adjustable roller assembly. 3,040,391, 6–26–62, Cl. 20—19.
Saunders, Thomas B.: *See*—
Elms, Edwin F., and Saunders. 3,015,866.
Saunders, William B. Roll carrier. 3,050,273, 8–21–62, Cl. 242—86.52.
Saunders, William P.: *See*—
Blanck, Roger D., and Saunders. 3,023,526.
Saunderson, Jason L., and G. Altman, to Baird-Atomic, Inc. Spectroscopic apparatus. 3,056,330, 10–62, Cl. 88—14.
Saunderson, Jason L., and E. Du Bois, to Baird-Atomic, Inc. Spectroscopic apparatus. 3,064,520, 11–20–62, Cl. 88—14.
Saupe, Otto, and S. Schöne, to Herschmann Richard Radiotechnisches Werk. Extendable antenna having pivotable and displaceable elements. 3,025,088, 3–13–62, Cl. 287—54.
Saur, Albert J., W. K. McCarty, Jr., and L. E. Johnson, to United States of America, Atomic Energy Commission. Coupled diaphragm nuclear reactor safety device. 3,031,393, 4–24–62, Cl. 204—193.2.
Saur, Hermann: *See*—
Ziehm, Günther, and Saur. 3,035,265.
Saurenman Co., Inc.: *See*—
Weiss, Nathan M., and Saurenman. 3,032,767.
Saurenman, Dean F.: *See*—
Lanmon, C. P., II, and Saurenman. 3,060,588.
Saurenman, Dean F., to Schlumberger Well Surveying Corp. Single arm borehole apparatus. 3,023,508, 3–6–62, Cl. 33—178.
Saurenman, Dean F., and U. E. Voetter, to Schlumberger Well Surveying Corp. Borehole apparatus. 3,066,739, 12–4–62, Cl. 166—187.
Saurenman, Phillip E.: *See*—
Weiss, Nathan M., and Saurenman. 3,032,767.
Saurer, Adolph, Ltd.: *See*—
Oprecht, Ulrich. 3,032,989.
Oprecht, Ulrich. 3,038,307.
Saurer, Hermann, and H. Victora, to Berliner Maschinebau AG, vorm L. Schwartzkopff. Hydrojet engine for marine and submarine propulsion. 3,024,598, 3–13–62, Cl. 60—35.6.
Saurino, Vincent R.: *See*—
Davis, Carl H., Grand, and Saurino. 3,052,604.
Saurwein, Albert G., to Union Carbide Corp. Deferred action electric battery. 3,022,365, 2–20–62, Cl. 136—90.
Sausele, George J. H., to Harris-Intertype Corp. Matrix delivery mechanism for typographical line composing machines. 3,017,015, 1–16–62, Cl. 199—18.

Sausele, George J. H., to Harris-Intertype Corp. Distributor bar safety for typographical machines. 3,043,421, 7–10–62, Cl. 199—3.

Sausele, George J. H., to American Type Founders Co., Inc. Typographic composing apparatus. 3,063,538, 11–13–62, Cl. 197—20.

Sausen, George N., to E. I. du Pont de Nemours and Co. Method for the preparation of dinitrogen difluoride. 3,055,-740. 9–25–62. Cl. 23—205.

Sauteron, Jean: *See*—
Vertes, Paul, Sauteron, and Delange. 3,069,227.

Sauvage, John E.: *See*—
Hlavacek, Robert J., Sauvage, and Dillehay. 3,051,984.
Hlavacek, Robert J., Sauvage, Dillehay, and Swift. 3,055,046.
Hlavacek, Robert J., Sauvage, and Swift. 3,039,135.

Sauzedde, Rene E., to General Motors Corp. One way clutches. 3,019,871, 2–6–62, Cl. 192—41.

Sauzedde, Rene E., to General Motors Corp. One-way clutches. 3,035,472, 9–25–62, Cl. 192—45.

Sauzedde, Rene E., and W. Blinder, to General Motors Corp. One-way clutch. 3,031,053, 4–24–62, Cl. 192—45.

Savage, Conwell, to Westinghouse Electric Corp. Enclosed electric switches. 3,064,106, 11–13–62, Cl. 200—168.

Savage, Donald C.: *See*—
Johnson, Maurice V., Jr., and Savage. 3,063,365.

Savage, Frank K., H. L. Pinkerton, and A. K. Graham, to Graham, Savage & Associates, Inc. Method and apparatus for recovery of copper and zinc from scrap. 3,054,736, 9–18–62, Cl. 204—108.

Savage, George M.: *See*—
Means, Charles W., and Savage. 3,028,314.

Savage, Harold R. Suspensory garment. 3,059,638, 10–23–62, Cl. 128—159.

Savage, Jack W.: *See*—
Flora, Raymond A., Neyhouse, Savage, and Shewmon. 3,060,593.
Neyhouse, George A., Savage, and Shewmon. 3,033,014.
Neyhouse, George A., Savage, and Shewmon. 3,049,021.

Savage, Joseph. Positive alarm lock. 3,029,424, 4–10–62, Cl. 340—274.

Savage, Joseph. Positive alarm clock. 3,041,593, 6–26–62, Cl. 340—274.

Savage, Lester D., Jr., to Beckman Instruments, Inc. Switch for fluid pressure signals. 3,060,744, 10–30–62, Cl. 73—407.

Savage, Robert H., to Knoll Associates, Inc. Spring biased rotatable seat pedestal. 3,055,628, 9–25–62, Cl. 248—417.

Savage, Robert H., and M. Guarnier, to General Electric Co. Treated carbon brush. 3,042,822, 7–3–62, Cl. 310—228.

Savage, Robert L., to The North American Coal Corp. Process for the formation of low volatile char and synthesis gases by the carbonization of coal. 3,061,524, 10–30–62, Cl. 202—9.

Savage, Russell C., to Bendix-Westinghouse Automotive Air Brake Co. Fluid pressure control mechanism. 3,015,339, 1–2–62, Cl. 137—102.

Savage, William E., to Varian Associates. Signal generator. 3,030,572, 4–17–62. Cl. 324—.5.

Savage, William J. Corrugator. 3,055,439, 9–25–62, Cl. 172—99.

Savannah Machine & Foundry Co.: *See*—
Bourquin, Landrum S. 3,019,734.

Savchuk, Victor: *See*—
Ehrlich, Stanley L., and Savchuk. 3,068,446.

Savela, Edward H.: *See*—
Kokosh, George, and Savela. 3,066,783.

Savell, Jacob F., to Baker Perkins, Inc. Safe load control apparatus. 3,064,162, 11–13–62, Cl. 317—13.

Saverslak, Irving S. Process of preparing a boneless cooked poultry product. 3,036,922, 5–29–62, Cl. 99—107.

Savidge, Robert W., to Santa Monica Aviation, Inc. Machine for maneuvering aircraft on the ground. 3,025,922, 3–20–62, Cl. 180—14.

Saviers, George B.: *See*—
Kerr, Robert E., and Saviers. 3,061,198.

Saville, Eric J. Pressure relief valve. 3,036,593, 5–29–62, Cl. 137—469.

Saville, John E.: *See*—
Modic, Frank J., and Saville. 3,044,980.

Saville, John E., to General Electric Co. Silicone-polyester compositions and process for preparing same. 3,044,979, 7–17–62, Cl. 260—45.4.

Savin, Cornelius. Light projector. 3,053,145, 9–11–62, Cl. 88—26.

Savina, Anthony R., and D. D. Ritson, to American Cyanamid Co. Fluid paper coating emulsion comprising ethyl acrylate-acrylonitrile copolymer, melamine-formaldehyde resin, and sodium di-(C6–C8) branched chain alkyl sulfosuccinate. 3,061,568, 10–30–62, Cl. 260—29.4.

Savio, Joseph, to Electro-Char Corp. Wall structure for electrified cooking grate. 3,022,410, 2–20–62, Cl. 219—37.

Savit, Carl H.: *See*—
Salvatori, Henry, and Savit. 3,020,521.

Savit, Carl H., to Western Geophysical Co. of America. Oscillographic camera. 3,045,241, 7–17–62, Cl. 346—109.

Savitt, Jacob, R. H. Stresau, and J. P. Weber, to Armour Research Foundation of Illinois Institute of Technology. Detonator. 3,062,143, 11–6–62, Cl. 102—28.

Sav-Mor Feeder Co., Inc.: *See*—
Mayo, Carlos E. 3,035,545.

Savoisienne de Produits Chimiques, Societe: *See*—
Quenard, Francois E. 3,040,767.

Savonuzzi, Giovanni F.: *See*—
Henny, Willi, and Savonuzzi. 3,059,900.
Henny, Willi, Savonuzzi, and Mendelsohn. 3,038,697.

Savonuzzi, Giovanni F., to Chrysler Corp. Adjustable nozzle and intermediate inner shroud support. 3,059,902, 10–23–62, Cl. 253—78.

Savory, William J.: *See*—
Olpin, Henry C., Wood, and Savory. 3,069,219.

Savoye, Charles U.: *See*—
Iddles, Alfred, and Savoye. 3,033,538.

Sawada, Fred H.: *See*—
Busch, Floyd H., and Sawada. 3,018,356.
Busch, Floyd H., and Sawada. 3,051,813.

Sawada, Jiro: *See*—
Tanaka, Yanagisawa, Sawada, Misawa, and Nakayoshi. 3,063,911.

Sawada, Yasuhiro, to Yawata Iron and Steel Co., Ltd. Granular bulk material handling apparatus. 3,062,355, 11–6–62, Cl. 198—37.

Sawai, Masanobu: *See*—
Chuman, Isso, Sawai, and Suzuki. 3,040,068.

Sawamura, Toshio, and T. Hayashi, to Jorgensen Bros. Pick-up means for a spinning reel. 3,022,961, 2–27–62, Cl. 242—84.7.

Sawaya, Albert R., to Hercules Powder Co. Process for manufacturing readily dyeable stereo regulated polyolefin articles and methods for dyeing the same. 3,039,840, 6–19–62, Cl. 8—55.

Sawchuk, Peter, to Corning Glass Works. Method for producing metallic-ceramic bodies. 3,034,908, 5–15–62, Cl. 106—65.

Sawdey, Nell T., to The Pipe Machinery Co. Apparatus for assembling threaded members. 3,039,181, 6–19–62, Cl. 29—237.

Sawdon, Victor J., to Card-Velope R.S.V.P. Combined envelope and detachable return card. 3,061,173, 10–30–62, Cl. 229—73.

Sawhill, Duane, to Olin Mathieson Chemical Corp. Phosphate production. 3,062,620, 11–6–62, Cl. 23—107.

Sawtaia, Edward J.: *See*—
Warner, Alden Y., and Sawina. 3,065,513.

Sawle, William S., Jr. Coupling assembly for engine crankshafts. 3,069,915, 12–25–62, Cl. 74—68.

Sawle, William S., III. Portable folding automobile desk. 3,031,242, 4–24–62, Cl. 311—21.

Saw Mill River Industries, Inc.: *See*—
Sans, Salvatore. 3,069,020.

Sawrie, Hewlett M. Continuous vertical lift. 3,024,891, 3–13–62, Cl. 198—154.

Sawyer, Carleton E.: *See*—
Henriksen, Rudolf C., Luftman, Sawyer, and Duggan. 3,068,548.

Sawyer, Dempsey B.: *See*—
Sawyer, Howard S. and D. B., Mozoliauskas, and Brynteson. 3,040,460.

Sawyer, Edgar W., Jr.: *See*—
Marples, James O., and Sawyer. 3,062,637.

Sawyer, Edgar W., Jr., to Minerals & Chemicals Philipp Corp. Monoethanolamine coated deactivated siliceous carrier for chlorinated dimethanonaphthalene type toxicants. 3,024,-164, 3–6–62, Cl. 167—42.

Sawyer, Edgar W., Jr., to Minerals & Chemicals Philipp Corp. Joint sealing compositions. 3,048,494, 8–7–62, Cl. 106—278.

Sawyer, Edgar W., Jr., to Minerals & Chemicals Philipp Corp. Agent for gelling organic liquids and organic liquids gelled therewith. 3,049,498, 8–14–62. Cl. 252—316.

Sawyer, Edgar W., Jr., and W. W. Garr, to Minerals & Chemicals Philipp Corp. Animal litter composition. 3,029,-783, 4–17–62, Cl. 119—1.

Sawyer, Edward C. Motor driven lamp unit and method. 3,049,615, 8–14–62. Cl. 240—49.

Sawyer, George C., to American Cyanamid Co. Shredder of rotating wires for filter cake. 3,066,877, 12–4–62. Cl. 241—191.

Sawyer, Harold E., to United States of America, Navy. Apparatus for producing sound waves. 3,033,157, 5–8–62, Cl. 116—137.

Sawyer, Harold E., to United States of America, Navy. Impact energized sound source. 3,053,220, 9–11–62, Cl. 116—137.

Sawyer, Howard S. and D. B., R. Mozoliauskas, and R. Brynteson, to H. S. Sawyer. Process for making memorial monuments. 3,040,409, 6–26–62, Cl. 41—39.

Sawyer, Hugh D.: *See*—
Burkin, Alfred R., Meddings, and Sawyer. 3,061,407.

Sawyer, John W.: *See*—
Johnson, Richard C., and Sawyer. 3,046,206.

Sawyer, Lester T. Hairpin. 3,066,685, 12–4–62, Cl. 132—52.

Sawyer, Philip L. Electric injection pump. 3,044,401, 7–17–62, Cl. 103—2.

Sawyer, Valerie L. Foul weather outer cape. 3,042,931, 7–10–62. Cl. 2—88.

Sawyer's Inc.: *See*—
Kurz, Karl F. 3,018,686.

Sax, Karl J., to Shell Oil Co. Halogenation process. 3,062,-899, 11–6–62, Cl. 260—650.

Saxe Brothers, Inc.: *See*—
Saxe, Elliot. 3,066,825.

Saxe, Douglas M., to Bausch & Lomb Inc. Optical system for electro-optical switching apparatus. 3,018,689, 1–30–62, Cl. 88—57.
Saxe, Elliot, to Saxe Brothers, Inc. Napkin holder. 3,066,-825, 12–4–62, Cl. 221—59.
Saxe, Van Rensselaer P. Connection units. 3,017,972, 1–23–62, Cl. 189—36.
Saxe, Van Rensselaer P. Adjustable connection unit. 3,022,-871, 2–27–62, Cl. 189—36.
Saxe, Van Rensselaer P. Adjustable connection unit. 3,025,-936, 3–20–62, Cl. 189—36.
Saxe, Walter E.: *See*—
Chadima, Jack P., and Saxe. 3,021,655.
Saxe, Walter E. Oblique vibrating screen device. 3,040,891, 6–26–62, Cl. 209—367.
Saxe, Walter E., to The Conveyor Co. Sand wheel. 3,044,629, 7–17–62, Cl. 210—384.
Saxenmeyer, George J., to International Business Machines Corp. Error controiled recycling of the readout of stored information. 3,037,698, 6–5–62, Cl. 235—153.
Saxenmeyer, George J., to International Business Machines Corp. Translator. 3,046,539, 7–24–62, Cl. 340—347.
Saxenmeyer, George J., to International Business Machines Corp. Data classifying device. 3,052,406, 9–4–62, Cl. 235—61.11.
Saxl, Erwin J., to Tensitron, Inc. Tension control for filamentary materials. 3,022,025, 2–20–62, Cl. 242—155.
Saxl, Erwin J. Variable transformer control and indicating system. 3,041,874, 7–3–62, Cl. 73—136.
Saxomeyer, Wallace J.: *See*—
Griffiths, Clyde C., and Saxomeyer. 3,055,310.
Saxon, David L. Package delivery box structure. 3,054,555, 9–18–62, Cl. 232—43.4.
Saxon Plastics Corp.: *See*—
Lenardon, Nelson, and Romanoff. 3,019,815.
Saxon, Robert, to American Cyanamid Co. Acrylonitrile polymers prepared in granular form. 3,054,782, 9–18–62, Cl. 260—80.5.
Saxon, Robert, and T. J. Suen, to American Cyanamid Co. Process for removing haziness from an aqueous solution of a blend of polymers. 3,021,295, 2–13–62, Cl. 260—29.4.
Saxton, Harold L. Sector scan indicator. 3,024,441, 3–6–62, Cl. 340—6.
Saxton, John N. Percussive type punch. 3,029,512, 4–17–62, Cl. 30—367.
Saxton, Richard O. Utility shears. 3,039,191, 6–19–62, Cl. 30—258.
Saydlowski, Bernard K.: *See*—
Brandsma, Walter C., Fisher, and Saydlowski. 3,063,-868.
Sayford, Frank M., Co.: *See*—
Sayford, Frank M., Jr. 3,049,979.
Sayford, Frank M., Jr. 3,051,365.
Sayford, Frank M., Jr. 3,055,567.
Sayford, Frank M., Jr., to Frank M. Sayford Co. Cup forming method and apparatus. 3,049,979, 8–21–62, Cl. 93—39.3.
Sayford, Frank M., Jr., to Frank M. Sayford Co. Cup and container handle. 3,051,365, 8–28–62, Cl. 229—1.5.
Sayford, Frank M., Jr., to Frank M. Sayford Co. Blank forming apparatus and method. 3,055,567, 9–25–62, Cl. 225—2.
Sayger, Frank D.: *See*—
Hudson, Gilford D., and Sayger. 3,023,599.
Sayigh, Adnan A. R., to The Carwin Co. Nitrosophenyl-N,N-dicarbohydroxyalkyl)-sulfonamides and their methods of preparation. 3,066,158, 11–27–62, Cl. 260—397.7.
Saykay, Joseph J., to Fairchild Camera and Instrument Corp. Coding apparatus. 3,017,459, 1–16–62, Cl. 178—17.
Saykay, Joseph J., to Fairchild Camera and Instrument Corp. Coding apparatus. 3,065,298, 11–20–62, Cl. 178—79.
Saykay, Joseph J., to Fairchild Camera and Instrument Corp. Combination-code signal-generating apparatus. 3,067,299, 12–4–62, Cl. 200—46.
Sayles, Raymond E., to Pennway Garment Co. Pleating attachment for sewing machines. 3,040,683, 6–26–62, Cl. 112—134.
Saylor, Frank D., & Son: *See*—
Balis, Charles B. 3,020,935.
Saylor, John C., to Dow Corning Corp. High temperature radiation resistant silicone rubber. 3,032,531, 5–1–62, Cl. 260—46.5.
Saylor, Robert L.: *See*—
Maroto, Robert A., and Saylor. 3,058,670.
Schlage, Ernest L., and Saylor. 3,028,619.
Schlage, Ernest L., and Saylor. 3,054,136.
Saylor, Robert L., to Schlage Lock Co. Linkage joint. 3,047,-319, 7–31–62, Cl. 287—90.
Saylor, William H., to United Aircraft Corp. Helical magnetic storage assembly. 3,019,421, 1–30–62, Cl. 340—174.1.
Saylor, William H., to United Aircraft Corp. Decimal subtractor. 3,033,459, 5–8–62, Cl. 235—168.
Saymon, Hanita F.: *See*—
Saymon, Leon. 3,037,510.
Saymon, Leon, to H. F. Saymon. File folder indicia device. 3,037,510, 6–5–62, Cl. 129—16.7.
Sayner, William V.: *See*—
Radcliffe, Arthur J., Jr., Ribner, and Sayner. 3,029,315.
Sayre, Clifford M., Jr.: *See*—
Beecher, Jack E., Kallal, Sayre, and Singer. 3,025,571.
Sayre, Marvin D. Screw conveyor variable limit apparatus. 3,036,504, 5–29–62, Cl. 94—46.
Sayre, Paul L., R. W. Dieckman, and M. Kleinman, to M. H. Treadwell Co., Inc. Mechanisms for dumping hot metal cars. 3,039,627, 6–19–62, Cl. 214—44.
Sázavský, Jaromir, to Chirana Praha, narodni podnik. Tiltable wall or table as used in X-ray examinations. 3,069,543, 12–18–62, Cl. 250—55.
Sbarounis, John A.: *See*—
Chiado, Paul S., and Sbarounis. 3,049,785.
Scaccia, Joseph, Jr. Bait tank for boats. 3,028,611, 4–10–62, Cl. 9—1.
Scadron, Marvin D., to Aero Research Instrument Co., Inc. Heated pitot tube assembly. 3,030,807, 4–24–62, Cl. 73—212.
Scadron, Marvin D., and O. J. Cousins, to Aero Research Instrument Co., Inc. Process for improving the electrically insulating properties of compacted, pulverulent, insulating materials. 3,032,444, 5–1–62, Cl. 117—213.
Scaglia, Camillo, to M. Scaglia Societa Per Azioni. Compound spinning bobbin. 3,057,576, 10–9–62, Cl. 242—118.6.
Scaglia, Luigi, to M. Scaglia, Societa per Azioni. Method and apparatus for removing yarn residue from spools. 3,036,358, 5–29–62, Cl. 28—19.
Scaglia, M., Societa Per Azioni: *See*—
Scaglia, Camillo. 3,057,576.
Scaglia, Luigi. 3,036,358.
Scaife Co.: *See*—
Hart, Edward C. 3,016,184.
Scala, Thomas J., to Astrosystems, Inc. Vacuum gun. 3,039,-450, 6–19–62, Cl. 124—11.
Scales, John T., and G. D. Winter, to National Research Development Corp. Dressing for wounds. 3,042,037, 7–3–62, Cl. 128—156.
Scallet, Barrett L.: *See*—
Curtin, Richard L., Sowell, and Scallet. 3,066,036.
Curtin, Richard L., Sowell, and Scallet. 3,066,037.
Scalo, Ralph F., and L. L. Stone, to The Perkin-Elmer Corp. Control knobs. 3,061,869, 11–6–62, Cl. 16—121.
Scamuzzi, Henry G. Counter loader. 3,059,257, 10–23–62, Cl. 12—66.
Scandia Packaging Machinery Co.: *See*—
Anderson, Andrew W. 3,055,490.
Scandinavian Agencies Corp., Ltd.: *See*—
Ericsson, Nils H. B. 3,044,406.
Scanlan, James J., and J. W. E. Harrisson, to American Chicle Co. Copper gluconate oral deodorant composition. 3,044,939, 7–17–62, Cl. 167—93.
Scanley, Clyde S.: *See*—
Groszos, Stephen J., and Scanley. 3,021,206.
Scanley, Clyde S., to American Cyanamid Co. Method for the secondary recovery of oil. 3,021,279, 2–13–62, Cl. 252—8.55.
Scanlon, William F.: *See*—
Cross, Donald J., and Scanlon. 3,022,674.
Scannell, Andrew W. Method of decorating ladies' nylon hosiery and hosiery so decorated. 3,025,126, 3–13–62, Cl. 8—62.
Scantlin Electronics, Inc.: *See*—
Scantlin, John R. 3,046,526.
Scantlin, John R. 3,044,545.
Scantlin, John R., to Scantlin Electronics, Inc. Selector apparatus. 3,046,526, 7–24–62, Cl. 340—164.
Scantlin, John R., to Scantlin Electronics, Inc. Printer. 3,064,545, 11–20–62, Cl. 95—4.5.
Scanzani, Robert M., to Bomac Laboratories Inc. Magnetron device. 3,032,681, 5–1–62, Cl. 315—39.61.
Scapa Dryers Ltd.: *See*—
Hindle Thomas, and Banks. 3,043,153.
Scaramucci, Domer. Lubricant recycling system for valve operating mechanism. 3,055,632, 9–25–62, Cl. 251—266.
Scarborough, Collin W., to Wallworth Co. Cryogenic valve. 3,048,362, 8–7–62, Cl. 251—214.
Scarborough, O D, to United States of America, Navy. Machine for milling and removing inhibitors from propellant grain. 3,035,830, 5–22–62, Cl. 269—201.
Scarbrough, Alfred D., to Thompson Ramo Wooldridge Inc. Electromagnetic head. 3,053,940, 9–11–62, Cl. 179—100.2.
Scarbrough, Alfred D., and R. N. Melliott, to Thompson Ramo Wooldridge Inc. Amplifier circuit having degenerative and regenerative feedback. 3,043,965, 7–10–62, Cl. 307—88.5.
Scarcelli, Albert F.: *See*—
Tatnall, George A., and Scarcelli. 3,047,259.
Scardaville, Paul A.: *See*—
Frieser, Rudolf G., and Scardaville. 3,067,052.
Scarff, Ted R.: *See*—
Moeller, John D., and Scarff. 3,019,735.
Scarlata, Angelo J.: *See*—
Huron, James W., and Scarlata. 3,041,463.
Scarlett, John A.: *See*—
Marcellus, Manley C., and Scarlett. 3,018,168.
Scarlett, John A., to FMC Corp. Production of barium oxide. 3,031,266, 4–24–62, Cl. 23—186.
Scarlett, John C.: *See*—
Beggs, Donald, Huebler, Sabin, Scarlett, and Turin. 3,021,236.
Scarpa, Jerry E., to Hughes Aircraft Co. Magnetic circuit breakers. 3,035,138, 5–15–62, Cl. 200—106.
Scarpelli, August F.: *See*—
Colten, Robert B., Scarpelli, and Wanttaja. 3,059,150.
Scarpetti, Lorenzo P., Masonry shelf bracket. 3,017,155, 1–16–62, Cl. 248—235.
Scarr, John, Jr., to Gulf Research & Development Co. Air directing apparatus. 3,033,278, 5–8–62, Cl. 158—76.

Scarr, John, Jr., to Gulf Research & Development Co. Air conditioning apparatus. 3,047,273, 7–31–62, Cl. 257—287.

Scarrott, Gordon G., and B. G. Welby, to Ferranti, Ltd. Frictional coupling devices. 3,044,593, 7–17–62, Cl. 192—84.

Scata, Mario: *See*—
Dal Bianco, Bruno, and Scata, 3,035,136.
Dal Bianco, Bruno, and Scata, 3,056,869.
Dal Bianco, Bruno, and Scata, 3,059,074.

Scavini, Jean F., to Societe des Forges et Ateliers du Creusot. Device for producing regulated rectilinear movements. 3,053,104, 9–11–62, Cl. 74—124.8.

Scavullo, Angelo C., to Legion Utensils Co., Inc. Plate warmer. 3,034,499, 5–15–62, Cl. 126—375.

Scavullo, Angelo C., to Legion Utensils Co., Inc. Plate warmer. 3,065,744, 11–27–62, Cl. 126—246.

Scavuzzo, William J., to Purolator Products, Inc. Filter signal device. 3,042,076, 7–3–62, Cl. 137—557.

Scavuzzo, William J., to Purolator Products, Inc. Indicator device. 3,052,206, 9–4–62, Cl. 116—70.

Scavuzzo, William J., to Purolator Products, Inc. Signal indicator. 3,064,618, 11–20–62, Cl. 116—70.

Scavuzzo, William J., and W. H. Hultgren, to Purolator Products, Inc. Mechanical signal device. 3,022,764, 2–27–62, Cl. 116—70.

Scavuzzo, William J., and C. J. Casaleggi, to Purolator Products, Inc. Locking device for movable rod. 3,028,009, 4–3–62, Cl. 210—90.

Schaad, Jean: *See*—
Marti, Frédéric, Braunschweig, and Schaad. 3,026,707.
Marti, Frédéric, Braunschweig, and Schaad. 3,026,708.

Schaaf, Bernard W., Jr., to Westinghouse Electric Corp. Method of and apparatus for welding. 3,018,358, 1–23–62, Cl. 219—72.

Schaaf, Fred W., to International Business Machines Corp. Cathode ray tube printer. 3,067,407, 12–4–62, Cl. 340—173.

Schaaf, Robert L., to Wyandotte Chemicals Corp. Unsymmetrically-substituted siloxanylferrocenes. 3,036,105, 5–22–62, Cl. 260—439.

Schaafsma, Albert: *See*—
Zuiderweg, Frederik J., Reman, and Schaafsma. 3,065,-167.

Schaal, Earl V., to Trico Products Corp. Windshield cleaning system. 3,017,650, 1–23–62, Cl. 15—250.02.

Schaap, Willem F. C., to Babcock & Wilcox Ltd. Tubulous heat exchangers. 3,033,535, 5–8–62, Cl. 257—248.

Schaar, Charles H., to The Kendall Co. Apparatus for perforating thermoplastic sheets. 3,038,198, 6–12–62, Cl. 18—1.

Schabert, Robert: *See*—
Fahrbach, Erich, Lauppe, Schabert, Heling, and Nottebohm. 3,069,305.
Nottebohm, Carl-Ludwig, Schabert, and Burk. 3,035,943.

Schabes, Donald W., to Continental Can Co., Inc. Fashion box. 3,063,617, 11–13–62, Cl. 229—33.

Schabot, Bernard W. Rotary precision work holder. 3,049,-032. 8–14–62, Cl. 77—64.

Schacht, Clifford A.: *See*—
Stroup, Earl L., Crosswell, and Schacht. 3,038,535.

Schacht, Gunter H.: *See*—
Brown, Edgar A., and Schacht. 3,049,990.

Schacht, Werner: *See*—
Reiche, Wilhelm, Behr, and Schacht. 3,027,819.

Schacter, Rubin J. Salts of tribasic acids. 3,026,323, 3–20–62, Cl. 260—287.

Schad, Charles A., to Black, Sivalls & Bryson, Inc. Movable light path integrator. 3,070,303, 12–25–62, Cl. 235—154.

Schade, Frank S., to National Bank Book Co. Posting tray construction. 3,035,587, 5–22–62, Cl. 129—28.

Schade, Gerhard: *See*—
Ohloff, Guenther, and Schade. 3,070,629.

Schade, Otto H., Sr., to Radio Corp. of America. Vertical aperture correction. 3,030,440, 4–17–62, Cl. 178—6.

Schade, Otto H., Sr., to Radio Corp. of America. Television projection tube alignment. 3,048,554, 8–7–62, Cl. 178—7.81.

Schade, Otto H., Sr., to Radio Corp. of America. Self-indexing electron tubes and sockets. 3,051,864, 8–28–62, Cl. 313—318.

Schade, Otto H., Sr., to Radio Corp. of America. High power electron discharge device. 3,054,012, 9–11–62, Cl. 313—46.

Schadlich, Fritz, to Robert Bosch G.m.b.H. Torque transmitting and impacting apparatus. 3,030,839, 4–24–62, Cl. 81—52.5.

Schaeder, Johann A., to Fritz Hellige & Co., G.m.b.H. Directly registering recording apparatus. 3,047,865, 7–31–62, Cl. 346—69.

Schaeder, Johann A., and G. Walther, to Fritz Hellige & Co., G.m.b.H. Directly registering recording apparatus. 3,039,-105, 6–12–62, Cl. 346—105.

Schaef, Harold M., to Victor Vending Corp. Merchandise vending machine. 3,036,732, 5–29–62, Cl. 221—113.

Schaefer, Bruno, R. Michels, K. Meyer, and H. Rausch, to Metallgesellschaft Aktiengesellschaft. Method of processing sulphidic concentrates. 3,027,251, 3–27–62, Cl. 75—3.

Schaefer, Carl F.: *See*—
Bayley, Donald S., White, and Schaefer. 3,027,808.
Ten Bosch, Maurits, Bayley, Mathiesen, and Schaefer. 3,039,096.

Schaefer, Carl F., and J. B. Speller, to United Aircraft Corp. Cyclic analogue to digital converter. 3,020,533, 2–6–62, Cl. 340—347.

Schaefer, Carl F., and J. Z. Stoia, to General Motors Corp. Isostatic molding apparatus. 3,034,191, 5–15–62, Cl. 25—45.

Schaefer, Donald L., and J. E. White, to United States of America, Navy. Gas cushion keep-alive electrode. 3,024,-382, 3–6–62, Cl. 313—170.

Schaefer, Edward J. Casing and stator assembly for electric motor. 3,035,192, 5–15–62, Cl. 310—89.

Schaefer, Edward J. End bell for motor-pump unit. 3,060,-860, 10–30–62, Cl. 103—87.

Schaefer, Edward J. Thrust bearing. 3,061,384, 10–30–62, Cl. 308—160.

Schaefer Equipment Co.: *See*—
Cale, Roland E. 3,040,840.

Schaefer, F. & M., Brewing Co., The: *See*—
Meisenheimer, Anthony R. 3,036,704.
Miller, John, and Russoman. 3,022,617.
Strandskov, Frede B., Bockelmann, and Carroll. 3,048,-488.

Schaefer, Frederic C., and J. H. Ross, to American Cyanamid Co. Haloalkyl-s-triazines and a new method of preparation. 3,062,818, 11–6–62, Cl. 260—248.

Schaefer, George E.: *See*—
Anderson, Robert I., and Schaefer. 3,024,066.

Schaefer, George E., to Brunswick Corp. Chair back. 3,041,-107, 6–26–62, Cl. 297—248.

Schaefer, George E., to Brunswick Corp. Home billiard table. 3,069,163, 12–18–62, Cl. 273—11.

Schaefer, George E., R. I. Anderson, and R. G. Reineman, to Brunswick Corp. Spectator seating. 3,027,190, 3–27–62, Cl. 297—232.

Schaefer, Hans F., Jr.: *See*—
Eckles, Geoffrey A., Elliott, Farley, and Schaefer. 3,040,-563.

Schaefer, Hans F., Jr., to United Shoe Machinery Corp. Work steering and feeding mechanism. 3,051,476, 8–28–62, Cl. 271—1.

Schaefer, James C., and E. C. Schmidt, to W. M. Weil. Recovery of manganese from metallurgical slags, dusts, and ores. 3,028,233, 4–3–62, Cl. 75—112.

Schaefer, John O., to International Business Machines Corp. Connecting device. 3,065,008, 11–20–62, Cl. 287—61.

Schaefer, Knut. Film guide structure for cinematographic apparatus. 3,033,074, 5–8–62, Cl. 88—17.

Schaefer, Knut. Diaphgram control for photographic apparatus. 3,066,591, 12–4–62, Cl. 95—64.

Schaefer, Louis F., and A. Macovski, to Radio Corp. of America. Automatic chroma control of video amplifier with effect limited to chroma components. 3,057,071, 5–29–62, Cl. 178—5.4.

Schaefer, Louis R., to Packaging Corp. of America. Multiple compartment container. 3,047,202, 7–31–62, Cl. 229—29.

Schaefer, Peter R., and J. S. Kane, to Union Carbide Corp. Gas shielded arc torches. 3,030,489, 4–17–62, Cl. 219—75.

Schaefer, Robert H.: *See*—
Christenson, Howard W., Fisher, Schaefer, Clark and Rains. 3,053,116.

Schaefer, Robert J.: *See*—
Schwartz, Morris A., and Schaefer. 3,022,618.

Schaefer, Wilbur C., and C. R. Russell, to United States of America, Agriculture. Heterofunctional derivatives of dialdehyde starches and method of making same. 3,033,851, 5–8–62, Cl. 260—233.3.

Schaeffer, Bernarr C., to Battle Creek Manufacturers, Inc. Adjustable exercising bar. 3,047,293, 7–31–62, Cl. 272—62.

Schaeffer, Georg, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Brüning. Manufacture of very active aluminum. 3,068,181, 12–11–62, Cl. 252—430.

Schaeffer, Louis P., to Columbus McKinnon Corp. Material handling machine. 3,061,210, 10–30–62, Cl. 241—189.

Schaeffer, William D.: *See*—
McKinnis, Art C., and Schaeffer. 3,027,400.

Schaeffer, William D., to Union Oil Co. of California. Preparation of organic isocyanates. 3,017,420, 1–16–62, Cl. 260—453.

Schaeffer, William D., to Union Oil Co. of California. Separation of organic compounds. 3,029,300, 4–10–62, Cl. 260—674.

Schaeffer, William D., to Union Oil Co. of California. Separation of organic compounds with Werner complexes. 3,043,-892, 7–10–62, Cl. 260—674.

Schaeffer, William D., to Union Oil Co. of California. Separation of organic compounds. 3,049,575, 8–14–62, Cl. 260—674.

Schaeffer, William D., and H. E. Rea, to Union Oil Co. of California. Preparation of metal thiocyanates and Werner complexes thereof. 3,020,123, 2–6–62, Cl. 23—75.

Schaeffer, William D., and H. E. Rea, Jr., to Union Oil Co. of California. Separation of organic compounds with Werner complexes. 3,043,893, 7–10–62, Cl. 260—674.

Schaeffer, William S. Combination guard finger and pressure plate for cutter bar assemblies for mowing machines. 3,064,412, 11–20–62, Cl. 56—305.

Schaeffler, Georg, to Industriewerk Schaeffler oHG. Cage for needle bearings. 3,028,204, 4–3–62, Cl. 308—217.

Schaeffler, Georg, to Industriewerk Schaeffler oHG. Needle bearings. 3,046,064, 7–24–62, Cl. 308—212.

Schaeffner, William C.: *See*—
Blesi, Douglas F., and Schaeffner. 3,060,788.

Schaefgen, John R., to E. I. du Pont de Nemours and Co. Polyhydroxymethylene polymers. 3,069,391, 12–18–62, Cl. 260—77.5.

Schaefgen, John R., and J. C. Shivers, Jr., to E. I. du Pont de Nemours and Co. Segmented copolymers and process for preparing same. 3,044,987, 7–17–62, Cl. 260—75.

Schaelchlin, Walter, and C. H. Storey, Jr., to Westinghouse Electric Corp. Drive and method of operating drive. 3,030,-565, 4–17–62. Cl. 318—143.

Schaeppi, Dr., Aktiengesellschaft: *See*—
Schaeppi, Johann H. 3,047,464.

Schaeppi, Johann H., to Dr. Schaeppi Aktiengesellschaft. Gold-isoquinoline-yohimbine complex for rheumatic diseases. 3,047,464, 7–31–62, Cl. 167—65.

Schaer, Glenn R., to Minneapolis-Honeywell Regulator Co. Methods of chemically polishing germanium. 3,024,148, 3–6–62. Cl. 156—17.

Schaer, Glenn R., to General Development Corp. Power supply for chromium plating. 3,042,592, 7–3–62, Cl. 204—51.

Schaerer, Willy: *See*—
Lundquist, Ingemar H., and Schaerer. 3,062,133.

Schaevitz Bros., Inc.: *See*—
Schaevitz, Charles S. 3,033,268.

Schaevitz, Charles S., to Schaevitz Bros., Inc. Tire denaturing machine. 3,033,268, 5–8–62, Cl. 157—1.26.

Schaevitz Engineering: *See*—
Lipshutz, Joseph. 3,054,976.

Schafer, Curtiss R., to United Aircraft Corp. Servo altimeter system. 3,064,478, 11–20–62, Cl. 73—384.

Schafer, Georg, to Gesellschaft Fur Linde's Eismaschinen Aktiengesellschaft. Arrangement for draining off the defrosting water in refrigerating containers, particularly refrigerator cabinets. 3,038,772, 6–12–62, Cl. 312—229.

Schafer, Georg, & Co., Kugelfescher: *See*—
Stiege, Werner, and Schenk. 3,033,186.

Schäfer, Gustav: *See*—
Bestian, Herbert, Schäfer, and Quint. 3,022,316.

Schafer, Harry H.: *See*—
Kent, Richard F., and Schafer. 3,046,715.

Schäfer, Heinz, to Scheid Maschinenfabrik Gesellschaft mit beschrankter Haftung. Road roller. 3,026,781, 3–27–62, Cl. 94—50.

Schafer, Howard C.: *See*—
MacInnes, William F., and Schafer. 3,061,204.

Schafer, John P.: *See*—
Bowers, Fritz K., and Schafer. 3,023,384.

Schafer, John V. Collar fastening means. 3,035,271, 5–22–62, Cl. 2—128.

Schafer, Richard G.: *See*—
Burke, Kenneth O., and Schafer. 3,048,380.

Schafer, Werner: *See*—
Kuhle, Engelbert, Schafer, Eue, and Wegler. 3,063,823.

Schafer, Wilhelm, to Ernest Leitz, Gesellschaft mit beschrankter Haftung. Camera with built-in exposure meter. 3,044,375, 7–17–62, Cl. 95—10.

Schaffel, Gerson S., to The General Tire and Rubber Co. Rocket propellant. 3,068,129, 12–11–62, Cl. 149—19.

Schaffer, Allan B.: *See*—
Cambel, Ali B., and Schaffer. 3,046,731.

Schaffer, David J.: *See*—
Kitchen, Morrison G., and Schaffer. 3,021,891.

Schaffer, Frank W., to Perlite Products Co. Method of insulating underground pipe. 3,032,827, 5–8–62, Cl. 18—59.

Schaffer, Heinrich, to C. A. Delius & Sohne. Weft tensioning and inserting device for gripper shuttle looms. 3,050,088, 8–21–62. Cl. 139—126.

Schaffer, Jeffrey, and D. W. Furby, to Siemens Edison Swan Ltd. Television pattern generators. 3,027,420, 3–27–62, Cl. 178—6.

Schaffer, Joseph M.: *See*—
Kelly, Edward T., and Schaffer. 3,031,945.

Schaffer, Richard E.: *See*—
Clement, Warren F., Schaffer, and Zupanick. 3,033,042.

Schaffer, Robert E.: *See*—
Blau, Theodore H., and Schaffer. 3,030,944.

Schaffer, Robert R.: *See*—
Poch, Leonard J., and Schaffer. 3,034,110.

Schaffer, Stanley A., to Pittsburgh Plate Glass Co. Treating glass sheets. 3,070,459, 12–25–62, Cl. 117—119.6.

Schaffert, Roland M., to International Business Machines Corp. Electrostatic printer apparatus for printing with liquid ink. 3,052,213, 9–4–62, Cl. 118—637.

Schaffner, Irwin J.: *See*—
Haxo, Henry E., Barton, and Schaffner. 3,018,812.
Tawney, Pliny O., and Schaffner. 3,027,403.

Schaffner, Irwin J., to United States Rubber Co. N-(β,β,β-trinitroethyl)-4,4,4-trinitrobutyramide. 3,038,009, 6–5–62, Cl. 260—561.

Schaffner, Irwin J., to United States Rubber Co. Vinyl 4,4,4-trinitrobutyrate. 3,051,743, 8–28–62, Cl. 260—478.

Schaffner, John F. Fuel tank outlet shield. 3,061,104, 10–30–62, Cl. 210—172.

Schafranik, Erich, to Landis Tool Co. Follower-controlled contour-reproducing grinding machines. 3,040,482, 6–26–62, Cl. 51—101.

Schagen, Pieter, and A. A. Turnbull, to North American Philips Co., Inc. Manufacture of electron discharge tubes having a photo-conductive target. 3,027,218, 3–27–62, Cl. 316—9.

Schahle, William C. Emergency repair for electricity generating systems. 3,029,377, 4–10–62, Cl. 322—80.

Schaich, Wilbur A.: *See*—
Burch, Oscar G., and Schaich. 3,028,652.

Schaich, Wilbur A., to Owens-Illinois Glass Co. Ball-type fluid applicator package. 3,036,325, 5–29–62, Cl. 15—572.

Schaich, Wilbur A., to Owens-Illinois Glass Co. Ball applicator assembly with shuttle-type closure. 3,055,041, 9–25–62, Cl. 15—572.

Schain, Philip. Reagent for the determination of fat in blood serum. 3,062,623, 11–6–62, Cl. 23—230.

Schairbaum, Albert W., to United States Gypsum Co. Multi-speed furnace traverse. 3,051,602, 8–28–62, Cl. 154—54.

Schairer, George S., to Boeing Airplane Co. Convertible low-noise jet engine nozzles. 3,036,429, 5–29–62, Cl. 60—35.6.

Schake, John L.: *See*—
Rogers, Dow A., Jr., Schake, and Minter. 3,036,023.

Schalich, Walter F., to Loma Machine Mfg. Co., Inc. Stretch gauge measuring and stretch stroke limiting device. 3,070,-147, 12–25–62, Cl. 153—53.

Schalk, Frank J.: *See*—
Fitsch, Arthur H., Bartz, and Schalk. 3,029,710.

Schalk, Robert F., to Western Electric Co., Inc. Capacitor-charging system. Re. 25,271, 10–23–62, Cl. 320—1.

Schalkenbach, Robert, Foundation: *See*—
Luebben, Ummo F. 3,064,556.

Schall, Louis H., and D. L. Winsor, to Raytheon Co. Magnetron systems. 3,020,447, 2–6–62, Cl. 315—85.

Schaller, Clarence R., Jr., to Ace Engineering and Machine Co., Inc. Inside bolted shielded enclosure. 3,040,118, 6–19–62. Cl. 174—35.

Schaller, Clarence R., Jr., to Ace Engineering and Machine Co., Inc. Door construction for shielded room. 3,055,969, 9–25–62, Cl. 174—35.

Schaller, Johannes, and R. Braun, said Braun assor. to said Schaller. Shoe sole construction with flexible shank. 3,067,752, 12–11 62, Cl. 128—586.

Schaller, Leo., to Sundstrand Corp. Contour grinding machine. 3,022,611, 2–27–62, Cl. 51—141.

Schallinger, Bernard H.: *See*—
Ranoha, Stephen, and Schallinger. 3,041,767.

Schallis, Alvin, to Stauffer Chemical Co. Carbon disulfide retort. 3,025,144, 3–13–62, Cl. 23—284.

Schallis, Alvin, to Stauffer Chemical Co. CS_2 retort. 3,039,-858, 6–19–62, Cl. 23—284.

Schallus, Erich, and A. Götz, to Knapsack-Griesheim Aktiengesellschaft. Process for carrying out endothermic reactions at high temperatures. Re. 25,218, 8–7–62, Cl. 260—679.

Schaltegger, Herbert E., to Afico S.A. Machine for loading articles from the top and for transferring said articles. 3,026,989, 3–27–62, Cl. 198—25.

Schaltegger, Herbert E., to Afico S.A. Machine for loading articles from the bottom and for transferring said articles. 3,041,068, 6–26–62, Cl. 271—29.

Schamel, Clyde H.: *See*—
Louton, James C., Jr., and Schamel. 3,043,551.

Schaming, Guillaume, to Societe Anonyme Schostal. Presses. 3,049,029, 8–14–62, Cl. 74—785.

Schampers, Paulus P. M.: *See*—
Warmoltz, Nicolaas, and Schampers. 3,030,538.

Schanbacher, William A., to Hughes Aircraft Co. Temperature compensated resonant cavity. 3,048,803, 8–7–62, Cl. 333—83.

Schane, George W.: *See*—
Fesmire, Norman W., and Schane. 3,061,134.

Schaner, Burton E., and R. A. Wolfe, to United States of America, Atomic Energy Commission. Fuel element for neutronic reactors. 3,069,338, 12–18–62, Cl. 204—154.2.

Schantz Organ Co.: *See*—
Imhoff, Albert W. 3,018,682.

Schantz, Robert J. Therapeutic bath for animals. 3,060,-892, 10–30–62, Cl. 119—158.

Schantz, Socrates J. Power mower having drive wheels controllable by rotatable handle. 3,029,887, 4–17–62, Cl. 180—9.

Schantz, Spencer C., to The Budd Co. Null balance voltage source. 3,035,223, 5–15–62, Cl. 323—75.

Schanzle, Roger E., to The Procter & Gamble Co. Opening device for a double-locked stitch. 3,030,003, 4–17–62, Cl. 229—66.

Schapen, Donald W., to The Morgan Engineering Co. Crane apparatus. 3,064,324, 11–20–62, Cl. 22—95.

Schaper Mfg. Co., Inc.: *See*—
Schaper, William H. 3,048,402.

Schaper, William H., to Schaper Mfg. Co., Inc. Game apparatus. 3,048,402, 8–7–62, Cl. 273—119.

Schapiro, Joachim I., and H. Amsel, to Amsel Ltd. Drawers and guides therefor. 3,053,603, 9–11–62, Cl. 312—293.

Schappel, Joseph W., to American Viscose Corp. Resin spun viscose. 3,016,283, 1–9–62, Cl. 18—54.

Schappert, Hans M., to Koppers Co., Inc. Ethylene polymerization. 3,023,202, 2–27–62, Cl. 260—94.9.

Schar, Wayne C., to Esso Research and Engineering Co. Alkyl aromatic sulfonic acid. 3,042,713, 7–3–62, Cl. 260—505.

Scharenberg, William F., Jr.: *See*—
Mittenbergs, Alexander A., and Scharenberg. 3,047,960.

Schärer Maschinenfabrik: *See*—
Siegenthaler, Walter. 3,043,528.

Scharf, Walter G., to Metal Film Co., Inc. Laminated textile threads. 3,069,746, 12–25–62, Cl. 28—80.

Scharfman, Howard: *See*—
O'Hara, Francis J., and Scharfman. 3,058,049.

Scharla-Nielsen, Hans : *See*—
Searcy, John H., and Scharla-Nielsen. 3,054,942.
Scharman, Kenneth S. Solar-dissipator. 3,036,627, 5–29–62, Cl. 159—4.
Scharmann & Co. G.m.b.H. : *See*—
Schraub, Willi. 3,016,803.
Scharp, Glenn A., to United States of America, Navy. Loaded double-folded slot antenna. 3,022,505, 2–20–62, Cl. 343—767.
Scharp, Wesley W. S. Game apparatus. 3,030,112, 4–17–62, Cl. 273—136.
Scharpf, George H., to M. S. A. Research Corp. Thermal insulating block. 3,016,160, 1–9–62, Cl. 220—15.
Scharpf, Otto, to Johnson Service Co. Direct and reverse acting temperature regulating apparatus. 3,047,233, 7–31–62, Cl. 236—1.
Scharpf, Otto, to Johnson Service Co. Control mechanism. 3,069,088, 12–18–62, Cl. 236—83.
Schaschl, Edward : *See*—
Ellison, Lynn E., Schaschl, and Marsh. 3,061,773.
Marsh, Glenn A., Ellison, and Schaschl. 3,047,847.
Marsh, Glenn A., and Schaschl. 3,029,195.
Marsh, Glenn A., and Schaschl. 3,042,863.
Marsh, Glenn A., and Schaschl. 3,047,478.
Marsh, Glenn A., and Schaschl. 3,056,284.
Marsh, Glenn A., and Schaschl. 3,060,721.
Marsh, Glenn A., and Schaschl. 3,062,043.
Marsh, Glenn A., and Schaschl, 3,066,082.
Schaschl, Edward, to The Pure Oil Co. Apparatus for measuring the rate of accumulation of static electrical potential. 3,048,777, 8–7–62, Cl. 327—72.
Schaschl, Edward, and G. A. Marsh, to The Pure Oil Co. Apparatus for testing lubricants. 3,041,868, 7–3–62, Cl. 73—10.
Schaschl, Edward, and G. A. Marsh, to The Pure Oil Co. Current controller for use in cathodic protection of steel structures. 3,055,813, 9–25–62, Cl. 204—147.
Schaschl, Edward, and G. A. March, to The Pure Oil Co. Apparatus for corrosion testing. 3,065,151, 11–20–62, Cl. 204—1.
Schatz Mfg. Co., The : *See*—
Recknagel, Frederick W. 3,054,164.
Schatz, Ralph H. : *See*—
Hochgraf, Norman N., Schatz, and Tegge. 3,052,665.
Schatz, Ralph H., A. H. Gleason, and O. C. Slotterbeck, to Esso Research and Engineering Co. Solvent replacement. 3,063,857, 11–13–62, Cl. 106—287.
Schätzschock, Adolf, and A. Weitzl, to The Stanley Works. Filing tool. 3,016,600, 1–16–62, Cl. 29—78.
Schaub, Franz, and R. Hesse, to Ruhrchemie Aktiengesellschaft. Welding thermoplastic bodies together. 3,058,513, 10–16–62, Cl. 156—502.
Schaub, Franz, and B. Schleper, to Ruhrchemie Aktiengesellschaft. Process for the treatment of divided materials. 3,068,584, 12–18–62, Cl. 34—8.
Schaub, Marie B. Small animal restraining stock. 3,023,-734, 3–6–62, Cl. 119—99.
Schaub, Paul W. : *See*—
Rosenberg, Milton, and Schaub. 3,048,538.
Schaub, Robert E., and M. J. Weiss, to American Cyanamid Co. 7-substituted thio steroids of the pregnene series. 3,022,323, 2–20–62, Cl. 260—397.3.
Schauer, George A., Jr. Engine construction. 3,023,743, 3–6–62, Cl. 123—51.
Schauer, George W., Jr., to General Motors Corp. Domestic heating appliance. 3,032,636, 5–1–62, Cl. 219—20.
Schauer, Siegfried, and H. Kihm. Crushing mill. 3,061,208, 10–30–62, Cl. 241—117.
Schaufelberger, Henry W., to Western Electric Co., Inc. Spring gage for armature assembly. 3,029,523, 4–17–62, Cl. 33—180.
Schaufelberger, Henry W., to Western Electric Co., Inc. Pile-up assembly fixture. 3,047,941, 8–7–62, Cl. 29—203.
Schaufele, Roger D. : *See*—
Divola, John M., and Schaufele. 3,067,970.
Schauffler, David J. : *See*—
Remington, Richard C., and Schauffler. 3,020,506.
Schaurte, Paul. Method of and means for forming welding connections between metallic bodies of different welding characteristics. 3,020,987, 2–13–62, Cl. 189—36.
Schaus, Orlando, to American Cyanamid Co. Method of preparing metal cyanamides. 3,039,848, 6–19–62, Cl. 23—78.
Schaverian, Edward M. Valve actuating mechanism. 3,026,-741, 3–27–62, Cl. 74—424.8.
Schayer, Robert O., to Wells Lamont Corp. Display structure. 3,070,339, 12–25–62, Cl. 248—223.
Schayes, Raymond C., and J. Ensink, to North American Philips Co., Inc. Transistor class-B biasing circuits. 3,015,-780, 1–2–62, Cl. 330—14.
Schebler, Bernard J., to The Bendix Corp. Two bridge repeater servosystem. 3,060,359, 10–23–62, Cl. 318—19.
Schechter, Dale L. : *See*—
Leddy, James J., and Schechter. 3,060,002.
Schechter, Dale L., and J. J. Leddy, to The Dow Chemical Co. Caustic beneficiation of titanium-source materials. 3,069,-235, 12–18–62, Cl. 23—202.
Schechter, Stanley J. : *See*—
Nemec, Joseph W., and Schechter. 3,050,439.
Nemec, Joseph W., and Schechter. 3,050,552.
Schechter, William H., to Callery Chemical Co. Production of borane derivatives. 3,033,766, 5–8–62, Cl. 204—59.
Schechter, William H., to Callery Chemical Co. Production of alkali metal alkoxides. 3,053,906, 9–11–62, Cl. 260—632.
Schechter, William H., D. K. Shumway, and A. Murchison, to Callery Chemical Co. Continuous process for the production of boranes. 3,028,221, 4–3–62, Cl. 23—204.
Scheel, Henry A., to A. Wimpfheimer & Bro. Inc. Resin molded fabric. 3,045,319, 7–24–62, Cl. 28—80.
Scheel, Walther F., to Rockwell-Standard Corp. Non-drive axle assembly. 3,037,818, 6–5–62, Cl. 301—124.
Scheele, Paul F. : *See*—
Von Eschen, Robert L., and Scheele. 3,031,608.
Scheeler, Frederick H., and R. J. Carrozza, to Admiral Corp. Printed circuit printing machine. 3,033,563, 5–8–62, Cl. 271—44.
Scheelke, Gerald F. : *See*—
Bowling, Robert T., Edward, Keller, and Scheelke. 3,017,909.
Scheer, C. F., & Cie. : *See*—
Murschel, Erwin. 3,049,842.
Scheer, Donald W., Sleep warning system for vehicle operator. 3,026,503, 3–20–62, Cl. 340—279.
Schefer, Eli I. : *See*—
Brand, Harry R., and Schefer. 3,028,326.
Scheffler, Lewis F. : *See*—
Russell, Robert G., Morgan, and Scheffler. 3,065,091.
Schegk, Ernst, and G. Schrader, to Farbenfabriken Bayer Aktiengesellschaft. Phosphorus derivatives and process for their production. 3,021,351, 2–13–62, Cl. 260—461.
Schegk, Ernst, and G. Schrader, to Farbenfabriken Bayer Aktiengesellschaft. Thiophosphoric acid esters and their production. 3,042,703, 7–3–62, Cl. 260—461.
Schegk, Ernst, and G. Schrader, to Farbenfabriken Bayer Aktiengesellschaft. Thiophosphoric acid esters and a process for their production. 3,056,825, 10–2–62, Cl. 260—461.
Scheible, Albert E. *See*—
Wade, Harry D., and Scheible. 3,049,261.
Scheibli, James F., to Shell Oil Co. Resinous compositions and their preparation. 3,051,684, 8–28–62, Cl. 260—37.
Scheid Maschinenfabrik Gesellschaft mit beschrankter Haftung : *See*—
Schafer, Heinz. 3,026,781.
Scheidegger, Jacques, to Comptoir Pharmaceutique d'Exportation S.A. Method of producing an instant cocoa. 3,032,416, 5–1–62, Cl. 99—26.
Scheidenhelm, Earl L., to Horace D. Hume. Windrower support assembly. 3,043,076, 7–10–62, Cl. 56—192.
Scheidenhelm, Earl L., to H. D. Hume. Reel finger. 3,045,-414, 7–24–62, Cl. 56—221.
Scheider, Maurice G. : *See*—
Blaes, Viggo A., and Scheider. 3,029,046.
Scheidig, Helmut : *See*—
Gruber, Helmut, and Scheidig. 3,019,274.
Gruber, Helmut, and Schidig. 3,042,731.
Scheiter, Milton H. : *See*—
Borman, August H., Jr., Cheek, and Scheiter. 3,048,055.
Scheitlin, Alexander, to The Nobelt Co. Garment band. 3,064,269, 11–20–62, Cl. 2—221.
Scheldorf, Owen H., to General Electric Co. Method of manufacturing a motor compressor unit. 3,050,832, 8–28–62, Cl. 29—155.5.
Scheldorf, Owen H., to General Electric Co. Valve assembly for compressors and the like. 3,055,390, 9–25–62, Cl. 137—514.3.
Schelke, Robert K., to Belden Mfg. Co. Chuck key holder and strain relief. 3,049,946, 8–21–62, Cl. 77—6.
Schelke, Robert K., to Belden Mfg. Co. Strain relief. 3,051,-774, 8–28–62, Cl. 174—135.
Schell, Roger E., to Crown Cork and Seal Co., Inc. Article control apparatus for feeding conveyors. 3,020,997, 2–13–62, Cl. 198—34.
Schell, Roger E., to Crown Cork & Seal Co., Inc. Inspection apparatus. 3,029,349, 4–10–62, Cl. 250—223.
Schell, Roger E., to Crown Cork and Seal Co., Inc. Synchronized window for automatic inspection apparatus. 3,039,354, 6–19–62, Cl. 88—14.
Schellenberg, Henri, to Societe Alsacienne de Constructions Mecaniques. Fabric-winding machine. 3,044,726, 7–17–62, Cl. 242—56.
Schellenberg, Wolf-Dietrich, and O. Bayer, to Farbenfabriken Bayer Aktiengesellschaft. Light-sensitive compounds and their use in the reproduction technic. 3,030,208, 4–17–62, Cl. 96—35.
Schellenberger, Hans I. : *See*—
Puschel, Walter, Wahl, Pelz, and Schellenberger. 3,028,238.
Schelleng, John C., to Bell Telephone Laboratories, Inc. Phase stabilization of circuits which employ a heterodyne method. 3,019,296, 1–30–62, Cl. 179—15.5.
Schelleng, Robert D., and W. K. Abbott, to The International Nickel Co., Inc. Austenitic ductile iron having high notch ductility at low temperature. 3,055,755, 9–25–62, Cl. 75—123.
Schellentrager, Eugene W., to The Atlas Bolt & Screw Co. Scrap charging car. 3,069,030, 12–18–62, Cl. 214—18.
Scheller, Walter, and J. Renard, to Ciba Ltd. Process for the purification of tantalum pentachloride. 3,038,781, 6–12–62, Cl. 23—21.
Scheller, Walter, and J. Renard, to Ciba Ltd. Process for the manufacture of double salts of niobium chloride and tantalum chloride. 3,068,066, 12–11–62, Cl. 23—87.

Schellhammer, Carl-Wolfgang, and G. Domagk, to Bayer Aktiengesellschaft, Fabenfabriken. Chemical compounds and process for producing the same. 3,040,041, 6–19–62, Cl. 260—243.

Schellhammer, Carl-Wolfgang, S. Petersen, and G. Domagk, to Farbenfabriken Bayer Aktiengesellschaft. p-Benzoquinone-monoguanylhydrazone - mono - [4-hydroxythiazolyl - (2)]-hydrazone and process. 3,069,430, 12–18–62, Cl. 260—306.8.

Schellhammer, Karl-Wolfgang: *See*—
Domagk, Gerhard, Schellhammer, Petersen, and König. 3,039,925.

Schellig, Willy: *See*—
Kittel, Hermann, and Schellig. 3,066,866.

Schelp, Helmut R., to The Garrett Corp. Gas turbine power plant for vehicles. 3,054,257, 9–18–62, Cl. 60—39.17.

Schemel, Raymond E., and A. Tompos, to Bell Telephone Laboratories, Inc. Current supply system. 3,040,235, 6–19–62, Cl. 321—19.

Scheminger, John, Jr. Dry shaver with blade adjusting and indicating means and a locking device for said means. 3,038,254, 6–12–62, Cl. 30—60.5.

Schemitsch, Ludwig. Mortising jig. 3,053,292, 9–11–62, Cl. 144—27.

Schempp, Roy, to FMC Corp. Automatic box-wrapping system for loose-wrap and tight-wrap work. 3,045,561, 7–24–62, Cl. 93—54.

Schenck, Carl, Maschinenfabrik G.m.b.H.: *See*—
Hack, Heinrich. 3,038,342.
Hack, Heinrich, and Arras. 3,041,881.
Hack, Heinrich, and Junzke. 3,037,403.
Roder, Josef, and Stoff. 3,053,379.

Schenck, Friedrich, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of the reduction products of the vitamin D_2 vitamin D_3 and the corresponding irradiated provitamins. 3,049,553, 8–14–62, Cl. 260—397.2.

Schenck, Leslie M.: *See*—
Huber, Frederic R., and Schenck, 3,053,910.

Schenck, Leslie M., to General Aniline & Film Corp. Method for production of acyl taurides. 3,057,889, 10–9–62, Cl. 260—401.

Schenck, Martin: *See*—
Engelfried, Otto, and Schenck. 3,052,693.
Wiechert, Rudolf, Kaspar, and Schenck. 3,069,435.

Schenck, Remsen T. E., to Keystone Chemurgic Corp. Basic aluminum salts of acylamino-aliphatic mono- and polycarboxylic acids and a process for preparing same. 3,047,602, 7–31–62, Cl. 260—448.

Schenck, Robert C., to The Duriron Co., Inc. Rotary seals. 3,063,727, 11–13–62, Cl. 277—74.

Schenck, Robert C., and J. B. Freed, to The Duriron Co., Inc. Pumps. 3,040,670, 6–26–62, Cl. 103—103.

Schenck, Rubi T.: *See*—
Glaser, Ernest, and Schenck. 3,056,382.

Schenck, Willard A., to Riegel Paper Corp. Ribbed battery separator paper and method and apparatus for making the same. 3,057,771, 10–9–62, Cl. 162—116.

Schenkman, Henry F. Ring coupling for overlapped threaded rods. 3,065,010, 11–20–62, Cl. 287—117.

Schenk, George F., to American Optical Co. Instrument for examination of the eye. 3,019,699, 2–6–62, Cl. 88—20.

Schenk, Gustav, to Machine Tool Works Oerlikon, Administration Co. Drive mechanism for reciprocating numerical value transfer members of calculating office machines. 3,016,187, 1–9–62, Cl. 235—60.

Schenk, John A.: *See*—
Tilney, Ralph B., and Schenk. 3,037,362.

Schenk, Raymond L., Jr., to Union Carbide Corp. Reinforced cell closure. 3,061,660, 10–30–62, Cl. 136—133.

Schenk, Raymond L., Jr., to Gould-National Batteries, Inc. Indexing fixture and jig structure for presses. 3,061,913, 11–6–62, Cl. 29—204.

Schenk, Raymond L., Jr., to Gould-National Batteries, Inc. Sealing and pressure relief device for galvanic cells. 3,062,910, 11–6–62, Cl. 136—133.

Schenk, Raymond L., Jr., to Union Carbide Corp. Rolling process to make sintered electrode material flexible. 3,067,505, 12–11–62, Cl. 29—420.5.

Schenk, Rudolf: *See*—
Staege, Werner, and Schenk. 3,033,186.
Staege, Werner, Schenk, and Kleeberger. 3,064,579.

Schenk, Walter, to Henkel & Cie G.m.b.H. Process for the production of aromatic dicarboxylic and polycarboxylic acids. 3,042,717, 7–3–62, Cl. 260—522.

Schenk, Walter E., to The B. F. Nelson Mfg. Co. Self-sealing shingle. 3,050,908, 8–28–62, Cl. 50—243.

Schenkelaars, Martinus H. M.: *See*—
Reifenschweiler, Otto, and Schenkelaars. 3,030,167.

Schenkelberger, Frank J., to Clark Equipment Co. Flow divider system. 3,039,266, 6–19–62, Cl. 60—52.

Schenkengel, Emerich: *See*—
Schönthaler, Rubi, and Schenkengel. 3,053,208.

Schenker, Jack E. Dispenser. 3,061,082, 10–30–62, Cl. 206—42.

Schenker, Leo: *See*—
Meacham, Larned A., Schenker, and West. 3,060,275.

Schenkler, Jules O. Hanger mounting assembly for articles of luggage. 3,035,673, 5–22–62, Cl. 190—41.

SchenLabs Pharmaceuticals Inc.: *See*—
Kaufmann, Wilfried, Bauer, and Medick. 3,033,758.

Schenley Industries, Inc.: *See*—
Fino, John B., and Monge. 3,062,556.
Goldstein, Daniel. 3,059,816.

Schepartz, Saul A.: *See*—
McLimans, William F., and Schepartz. 3,039,932.

Scheper, George W., Jr., to General Electric Co. Erosion-resistant turbine blade. 3,030,071, 4–17–62, Cl. 253—39.

Scheper, George W., Jr., to General Electric Co. Turbine rotor ventilation system. 3,043,561, 7–10–62, Cl. 253—39.15.

Scheper, George W., Jr., to General Electric Co. Turbine erosion protective device. 3,066,912, 12–4–62, Cl. 253—76.

Schepman, Felix R., N. Wittenberg, and J. O. M. Van Langen, to North American Philips Co., Inc. Transducer. 3,046,360, 7–24–62, Cl. 179—100.41.

Scher, Nathan. Display bag. 3,026,016, 3–20–62, Cl. 229—55.

Scher, Stanford S., to National Store Fixture Co., Inc. Vertically adjustable hospital bed. 3,045,256, 7–24–62, Cl. 5—63.

Scherbatskoy, Serge A., to PGAC Development Co. Radiation well logging system. 3,030,511, 4–17–62, Cl. 250—83.3.

Scherbatskoy, Serge A. Temperature-regulated well-logging apparatus. 3,038,074, 6–5–62, Cl. 250—83.

Scherbatskoy, Serge A., to PGAC Development Co. Radioactivity well logging calibrating system. 3,038,076, 6–5–62, Cl. 250—83.3.

Scherbatskoy, Serge A. Stabilized spectrometer. 3,056,885, 10–2–62, Cl. 250—71.5.

Scherbatskoy, Serge A. Diffusion logging. 3,058,000, 10–9–62, Cl. 250—71.5.

Scherbatskoy, Serge A. Pipe-line exploration. 3,060,315, 10–23–62, Cl. 250—83.3.

Scherenberg, Hans O., to Daimler-Benz Aktiengesellschaft. Hydraulic brake for vehicles. 3,047,101, 7–31–62, Cl. 188—152.

Scherenberg, Hans O., and J. Gassmann, to Daimler-Benz Aktiengesellschaft. Fuel-injection adjusting device. 3,040,723, 6–26–62, Cl. 123—139.

Scherer, Erich H., to Westinghouse Electric Corp. Binary input-A.C. wave output selector using bipolar generator, integrator, and low pass filter. 3,048,784, 8–7–62, Cl. 328—27.

Scherer, Hermann: *See*—
Hasselbach, Wolfgang, Bauer, and Scherer. 3,027,164.

Scherer, Karl, to Matth. Hohner, A.G. Sound head for musical wind instrument. 3,030,845, 4–24–62, Cl. 84—384.

Scherer, Otto, H. Hahn, and G. Stühler, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Chloromethylated O,O-dialkyl-thiophosphoric acid esters. 3,020,304, 2–6–62, Cl. 260—461.

Schering Aktiengesellschaft: *See*—
Engelfried, Otto, and Schenck. 3,052,693.
Günther, Fredo. 3,036,908.
Kerb, Ulrich, and Schenck. 3,069,436.
Niemann, Horst, and Herrmann. 3,030,178.
Peisskker, Horst, and Lager. 3,069,453.
Pieroh, Ernst-Albrecht, Werres, and Freund. 3,049,470.
Priewe, Hans, Poljak, and Junkmann. 3,047,466.
Wiechert, Rudolf, Kaspar, and Schenck. 3,069,435.

Schering Corp.: *See*—
Barry, Richard E. 3,036,080.
Barton, Derek H. R., and Robinson. 3,026,337.
Gould, David H. 3,053,832.
Gould, David H., and Reimann. 3,049,554.
Gould, David H., and Robinson. 3,026,339.
Gould, David H., and Robinson. 3,032,564.
Gould, David H., and Shapiro. 3,045,033.
Ilavsky, Jan, and Herzog. 3,054,725.
Nobile, Arthur. 3,060,092.
Nussbaum, Alexander L. 3,045,011.
Oliveto, Eugene P., and Reimann. 3,061,607.
Robinson, Cecil H. 3,048,602.
Robinson, Cecil H. 3,048,605.
Robinson, Cecil H., and Oliveto. 3,045,030.
Robinson, Cecil H., and Oliveto. 3,045,032.
Shapiro, Elliot L., and Oliveto. 3,042,670.
Walter, Lewis A. 3,061,517.

Schering, Hans, to Siemens-Schuckertwerke Aktiengesellschaft. Process for production of hyperpure silicon by heat decomposition of a chloro-silane. 3,041,144, 6–26–62, Cl. 23—223.5.

Schermer, Dirk, and F. W. Petit, to United States of America, Army. Magnetomotive generator fuze. 3,034,437, 5–15–62, Cl. 102—70.2.

Schermerhorn, Asa C., to Stevens & Thompson Paper Co. Toilet tissue holding and dispensing device. 3,038,677, 6–12–62, Cl. 242—55.5.

Schermerhorn, Clarence E. Combination soap holder and brush. 3,055,040, 9–25–62, Cl. 15—525.

Schermuly, Alfred J., to The Schermuly Pistol Rocket Apparatus Ltd. Striker mechanisms for igniters. 3,034,435, 5–15–62, Cl. 102—70.

Schermuly, Alfred J., to The Schermuly Pistol Rocket Apparatus Ltd. Rockets and rocket-borne distress signals. 3,049,080, 8–14–62, Cl. 102—34.4.

Schermuly, Alfred J., to The Schermuly Pistol Rocket Apparatus Ltd. Dischargers for pyrotechnic devices. 3,064,575, 11–20–62, Cl. 102—37.6.

Schermuly, Alfred J., to The Schermuly Pistol Rocket Apparatus Ltd, Dischargers for pyrotechnic devices. 3,068,756, 12–18–62, Cl. 89—1.5.

Schermuly Pistol Rocket Apparatus Ltd., The: *See*—
Schermuly, Alfred J. 3,034,435.
Schermuly, Alfred J. 3,049,080.
Schermuly, Alfred J. 3,064,575.
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Scherotto, John. Collapsible imitation tree. 3,020,660, 2–13–62, Cl. 41—15.

Scherotto, John, to Einson-Freeman Co., Inc. Collapsible cardboard display device. 3,059,362, 10–23–62, Cl. 40—124.1.

Scherrer, Joseph H., to Spencer Chemical Co. Racemization of D and L-isomers of alpha-amino-epsilon-caprolactam. 3,024,231, 3–6–62, Cl. 260—239.3.

Scherry, George A., to Graybill, Inc. Fastener construction. 3,030,131, 4–17–62 Cl. 287—53.

Schesch, Carl G., to Radio Corp. of America. Automatic traying apparatus. 3,023,555, 3–6–62, Cl. 53—71.

Schetelich, Alan A.: *See*—
Dimler, William A., Jr., Schetelich, and Murphy. 3,057,-930.
Martin, James G., Ernst, Jankowski, and Schetelich. 3,023,195.

Schetty, Guido: *See*—
Beffa, Fabio, Dussy, and Schetty. 3,068,219.
Biedermann, Walter, and Schetty. 3,062,806.
Jung, Jean-Pierre, and Schetty. 3,045,005.

Scheublein, William A., Jr., and J. Dumpis, to Moog Industries, Inc. Adjustable ball joint assembly. 3,019,041, 1–30–62, Cl. 287—87.

Scheuchzer, Alfred. Apparatus for cleaning the ballast of a railway track. 3,054,459, 9–18–62, Cl. 171—16.

Scheuermann, Hans: *See*—
Jung, Johann, von Blumencron, Pfaff, and Scheuermann. 3,054,669.

Scheule, Harold J., to E. I. du Pont de Nemours and Co. Stabilized leaded gasoline. 3,037,851, 6–5–62, Cl. 44—62.

Scheurich, John S.: *See*—
Bauer, Myron J., Erickson, Kane, Neuman, and Scheurich. 3,052,440.
Bauer, Myron J., Kane, Neuman, and Scheurich. 3,022,051.

Scheurich, John S., to United States of America, Navy. Creepage device. 3,024,769, 3–13–62, Cl. 121—38.

Scheuring, Charles R.: *See*—
Robinson, William H., and Scheuring. 3,070,224.

Scheurlen, Hans: *See*—
Baril, Herbert, Bayer and Scheurlen. 3,035,011.
Malz, Hugo, Lober, Bayer, and Scheurlen. 3,044,981.

Scheuzger, Peter, to Victor Comptometer Corp. Recording device. 3,035,118, 5–15–62. Cl. 178—18.

Scheyer, Emanuel. Heat reflective fabrics. 3,038,234, 6–12–62, Cl. 28—78.

Scheyer, Emanuel. Heat reflective filament. 3,060,552, 10–30–62, Cl. 28—82.

Schiavone, Dominic J. Device for making returns, pleats, and spaces in draperies. 3,029,004, 4–10–62, Cl. 223—34.

Schibye, Lauritz B. Device for even spreading of water onto a running web, particularly a cellulosic pulp web. 3,032,-100, 5–1–62, Cl. 162—308.

Schibley, Raymond D., to Westinghouse Electric Corp. Range construction. 3,058,737, 10–16–62, Cl. 267—1.

Schibli, Marcel, and M. Leroux, to Schweizerische Wagons-und Aufzugefabrik A.G. Schlieren-Zurich. Elevator control system. 3,048,239, 8–7–62, Cl. 187—29.

Schichau, F., A.-G.: *See*—
Petersen, Heinz, and Sach. 3,032,328.

Schick Engineering Co.: *See*—
Ungeschick, William F., 3,053,577.

Schick, Harold P., to The General Tire & Rubber Co. Laminated polyurethane foam cushion. 3,051,601, 8–28–62, Cl. 154—54.

Schick Inc. *See*—
Kachline, Harold S., and Van Baelen. 3,044,168.
Ream, Robert R. 3,056,198.

Schick, John W.: *See*—
McLaughlin, Robert L., and Schick. 3,023,245.
Miller, Lawrence O., Schick, and McLaughlin. 3,027,707.

Schick, John W., to Socony Mobil Oil Co., Inc. Condensation of chlorobenzene and formaldehyde to polymeric oils. 3,028,436, 4–3–62, Cl. 260—649.

Schick, John W., to Socony Mobil Oil Co., Inc. Condensation of chlorobenzene and formaldehyde with promoted clay catalysts. 3,028,437, 4–3–62, Cl. 260—649.

Schicke, Hans-Gerd, to Bayer Aktiengesellschaft, Farbenfabriken. Phosphorus compounds and processes for their production. 3,053,847, 9–11–62, Cl. 260—306.7.

Schicke, Peter: *See*—
Zelle, Karl, Sehring, and Schicke. 3,030,263.

Schickedanz, Erich, to The Scholl Mfg. Co., Inc. Non-thermoplastic foam material impregnated with thermoplastic resin and method of making. 3,061,460, 10–30–62, Cl. 117—98.

Schickler, Eugene: *See*—
Morrison, John A., Schickler, and Schmidt. 3,070,395.

Schieber, Hans, and P. Bindel. Traction-chain mounting. 3,064,703, 11–20–62, Cl. 152—233.

Schiedrum, Hans-Otto, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Extrusion die with mandrel. 3,069,724, 12–25–62, Cl. 18—14.

Schiegries, Eduard, deceased, by E. Schiegries, nee Fecker, widow and sole heir, to Hermann Rappold & Co. Motor operated rotary valve. 3,061,265, 10–30–62, Cl. 251—134.

Schiegries, Elsa: *See*—
Schiegries, Eduard. 3,061,265.

Schield Bantam Co.: *See*—
Zelle, Lester L. 3,037,571.

Schiele, Karl, to Franke & Heidecke, Fabrik Photographischer Prazisions-Apparate. Projector attachment for photographic cameras. 3,056,333, 10–2–62, Cl. 88—26.

Schiemer, Charles J., to Benner, Inc. Latch hinge for play yards. 3,021,563, 2–20–62, Cl. 16—146.

Schier, Hans. Optical arrangement for inspecting bodies of revolution. 3,036,491, 5–29–62, Cl. 88—14.

Schierhorst, Albert E., to ACF Industries, Inc. Automatic magnetic deviation effects in flight simulators. 3,020,651, 2–13–62, Cl. 35—12.

Schierholz, Louis. Neck collar for the stalling of cows. 3,050,031, 8–21–62, Cl. 119—147.

Schiess Aktiengesellschaft: *See*—
Axer, Heinrich, Hölken, and Ufert. 3,032,142.
Wegmuller, Hans. 3,043,011.

Schiess, George: *See*—
Davis, Joseph E., and Schiess. 3,052,752.

Schiess, Hans H., to Chicopee Mfg. Co. Fibrous web and methods and apparatus for producing the same. 3,066,-358, 12–4–62, Cl. 19—155.

Schiffer, Arthur E. Portable combination lectern and easel. 3,031,247, 4–24–62, Cl. 312—231.

Schiff, Arthur: *See*—
Brett, Morton, and Schiff. 3,016,193.

Schiff, Norman, to Johnson & Johnson. Winding device. 3,019,990, 2–6–62, Cl. 242—75.51.

Schiffbauer, Robert V., and D. L. Shinn, to Crown Zellerbach Corp. Ink scanner for printed papers. 3,028,502, 4–3–62, Cl. 250—219.

Schiffer, Henry C.: *See*—
Ogden, Frederic W., Pascucci, and Schiffer. 3,060,309.

Schiffer, C., to The Miller Co. Lighting fixture and connector therefor. 3,019,332, 1–30–62, Cl. 240—9.

Schifferle, Charles J., to J. J. Coney. Cementitious material and method of preparation thereof. 3,066,031, 11–27–62, Cl. 106—100.

Schiffers, Paul: *See*—
Schiffers, Wilhelm and P. 3,061,905.

Schiffers, Wilhelm and P. Washing and fulling or milling machine. 3,061,905, 11–6–62, Cl. 26—19.

Schiffman, Louis, to Amchem Products, Inc. Method and solutions for treating metal surfaces. 3,063,877, 11–13–62, Cl. 148—6.

Schifter, Herbert E. Container closure device. 3,035,731, 5–22–62, Cl. 215—100.

Schilberg, Arnold G., to A. O. Smith Corp. Method of fabricating vehicle control arms. 3,037,271, 6–5–62, Cl. 29—415.

Schild, A., S.A.: *See*—
Dubois, Georges. 3,015,526.

Schild, Edwin F. Multiple shelving construction. 3,044,632, 7–17–62, Cl. 211—147.

Schildknecht, Raymond O., to International Telephone and Telegraph Corp. Multiplex communication receiver. 3,048,-661, 8–7–62, Cl. 179—15.

Schiler, Frederick S., to Portage Machine Co. Three dimensional layout device. 3,069,778, 12–25–62, Cl. 33—174.

Schilken, Hartwig: *See*—
Krause, Walter, Fischer, Wirtz, and Schilken. 3,047,371.
Wimmer, Rudolf, Wirtz, Portz, Fischer, and Schilken. 3,015,619.

Schiller, Arthur M.: *See*—
Suen, Tzeng J., and Schiller. 3,021,301.

Schiller, Arthur M., and W. F. Oliver, to American Cyanamid Co. Polyesters using molecular sieve to remove ethylene glycol. 3,066,116, 11–27–62, Cl. 260—75.

Schiller, Paul: *See*—
Schnellmann, Oskar. 3,059,750.

Schiller, Paul D. Robbery alarm system for protecting cash drawer. 3,036,298, 5–22–62, Cl. 340—274.

Schilling, Arden L. Universal stud driver. 3,048,850, 8–14–62, Cl. 1—44.5.

Schilling, Arthur R., and H. W. Erichsen, to Gulton Industries, Inc. Vibration-compensated pressure sensitive microphone. 3,025,359, 3–13–62, Cl. 179—110.

Schilling, Charles E.: *See*—
McCorkle, Kenneth H., Kleinsteuber, Schilling, and Dean. 3,035,895.

Schilling, Clarence J., to Air Products and Chemicals, Inc. Apparatus and method for fractionation of gas. Re. 25,185, 6–19–62. Cl. 62—13.

Schilling, Clarence J., to Air Products and Chemicals, Inc. Apparatus and method for fractionation of gas. 3,059,438, 10–23–62. Cl. 62—13.

Schilling, Clarence J., and L. C. Claitor, to Air Products and Chemicals, Inc. Method and apparatus for separating gaseous mixtures. Re. 25,193, 7–3–62, Cl. 62—13.

Schilling, Clarence J., and L. C. Claitor, to Air Products and Chemicals, Inc. Method and apparatus for fractionating gaseous mixtures. 3,065,607, 11–27–62, Cl. 62—25.

Schilling, Edmund F., to General Electric Co. Electron gun electrode supports. 3,017,531, 1–16–62, Cl. 313—82.

Schilling Electric Co.: *See*—
Schilling, Lorell J. 3,019,764.

Schilling, Helmut: *See*—
Persicke, Herbert, Schwab, and Schilling. 3,026,544.

Schilling, Hugh K., to Horton Mfg. Co., Inc. Friction brakes. 3,036,667, 5–29–62, Cl. 188—75.

Schilling, Jacob. Wild oat separator. 3,055,499, 9–25–62, Cl. 209—45.

Schilling, Lorell J., to Schilling Electric Co. Milk releaser with timer control. 3,019,764, 2–6–62, Cl. 119—14.05.

Schilling, Paul K., to Plastics, Inc. Method of molding plastic articles. 3,057,016, 10–9–62, Cl. 18—59.

Schilling, Robert: *See*—
Hansen, Kai H., Schilling, and McRoberts.

Schiltknecht, Adolf, to Joh. Jacob Rieter & Co. Ltd. Flyer with presser. 3,020,698, 2–13–62, Cl. 57—117.

Schiltknecht, Adolf, to Joh. Jacob Rieter & Co. Ltd. Cradle for top rolls of double apron drafting arrangements. 3,028,636, 4–10–62, Cl. 19—131.

Schiltknecht, Adolf, to Joh. Jacob Rieter & Cie Actiengesellschaft. Drafting arrangement for spinning machines. 3,055,060, 9–25–62, Cl. 19—253.

Schiltz, Richard P.: *See*—
Curtis, Harold S. and J. C., and Divola, Maletz, Morris, and Schiltz.

Schimek, Alfred F. Door mounting. 3,019,492, 2–6–62, Cl. 20—16.

Schimek, Alfred F. Door mounting. 3,051,999, 9–4–62, Cl. 20—16.

Schimek, Robert: *See*—
Ganiere, Herbert C., Schimek, and Sherwood.

Schimmel, John O.: *See*—
Chapman, Paul R., Schimmel, and Moyer.

Schimmel, Vernon R., to Symons Clamp & Mfg. Co. Panel-securing tie rod anchor bolt with offset anchor point. 3,067,479, 12–11–62, Cl. 25—131.

Schimmel, Wolfgang: *See*—
Steenbeck, Max, and Schimmel.

Schimmenti, Michael R.: *See*—
Lang, Robert J., Schimmenti, and Menke.

Schindler, Carl. to McGraw-Edison Co. Electromagnetic vibratory pump. 3,018,735, 1–30–62, Cl. 103—53.

Schindler, Ernst: *See*—
Schindler, Werner.

Schindler, Harvey D.: *See*—
Malley, Thomas J., and Schindler.

Schindler, Harvey D., L. A. Cullo, and J. M. Witheford, to American Cyanamid Co. Hydrocarbon reforming catalyst. 3,031,420, 4–24–62, Cl. 252—465.

Schindler, Herbert: *See*—
Michel, Albert, and Schindler.

Schindler, Ludwig. Telecommunication Receiver. 3,037,080, 5–29–62, Cl. 178—88.

Schindler, Walter: *See*—
Dietrich, Henri, and Schindler.

Schindler, Walter, to Geigy Chemical Corp. New azepine derivatives. 3,025,288, 3–13–62, Cl. 260—239.

Schindler, Walter, to Geigy Chemical Corp. New N-heterocyclic compounds. 3,056,064, 5–22–62, Cl. 260—239.

Schindler, Walter, to Geigy Chemical Corp. New tetracyclic azepine derivatives. 3,052,689, 9–4–62, Cl. 260—319.

Schindler, Walter, to Geigy Chemical Corp. New tetracyclic azepine derivatives. 3,052,690, 9–4–62, Cl. 260—325.

Schindler, Walter, to Geigy Chemical Corp. Process for the production of new N-heterocyclic compounds. 3,056,775, 10–2–62, Cl. 260—239.

Schindler, Werner: *See*—
Nauschutz, Peter, Planitzer, and Schindler.

Schindler, Werner, ¼ to E. Schindler. Displacement-type rotary pump. 3,027,846, 4–3–62, Cl. 103—126.

Schink, Norbert: *See*—
Reuschel, Konrad, and Schink.

Schink, Peter N.: *See*—
Gray, Edward E., Schink, and Young.

Schinz, Ernst, to Escher Wyss G.m.b.H. Digesting apparatus. 3,035,962, 5–22–62, Cl. 162—17.

Schinzel, Walter: *See*—
Muschenborn, Walter, Notzold, and Schinzel.

Schinzinger, Reginald: *See*—
Vesper, Walter, Schinzinger, and Bauger.

Schiowitz, Hyman A., to Arrow Lock Corp. Snap action lock-set assemblies. 3,048,436, 8–7–62, Cl. 292—337.

Schipper, Robert J.: *See*—
Bruck, George. Keene, and Schipper.

Schippers, Heinz, to Barmer Maschinenfabrik AG. Compensating device for thread feed spools. 3,044,246, 7–17–62, Cl. 57—58.52.

Schippers, Heinz, to Barmer Maschinenfabrik Aktiengesellschaft. Stretch-spooling machines. 3,069,745, 12–25–62, Cl. 28—71.3.

Schippers, Heinz, and W. Weber, to Barmer Maschinenfabrik Aktiengesellschaft. Winding apparatus for use in synthetic thread spinning machines. 3,036,784, 5–29–62, Cl. 242—35.5.

Schippers, Heinz, P. Horster, and W. Weber, to Barmer Maschinenfabrik Aktiengesellschaft. Switching device for spooling and spinning machines. 3,064,910, 11–20–62, Cl. 242—18.

Schirm, Helmut T., to Owens-Illinois Glass Co. Clamping mechanism for glass mold. 3,067,598, 12–11–62, Cl. 65—360.

Schirmer, Henry G., to Personal Products Corp. Spray apparatus. 3,027,870, 4–3–62, Cl. 118—504.

Schirmer, Robert M.: *See*—
Johnson, Marvin M., and Schirmer.

Schirmer, Robert M., to Phillips Petroleum Co. Method and apparatus for burning fuel at shear interface between coaxial streams of fuel and air. 3,067,582, 12–11–62, Cl. 60—39.82.

Schirmer, Theresa, to J. A. Sokaly. Head rest for hair dryers. 3,035,865, 5–22–62, Cl. 297—217.

Schirp, Hubert: *See*—
Blaser, Bruno, Raecke, and Schirp.
Blaser, Bruno, Schirp, and Stein.
Blaser, Bruno, Stein, and Schirp.
Stein, Werner, Schirp, and Schütt.

Schirp, Wilhelm, and M. Alex, to Alaska-Werk. Water cooler. 3,017,753, 1–23–62, Cl. 62—395.

Schirtzinger, Joseph F., to Air Logistics Corp. Method and means for decelerating aircraft on runways. 3,066,896, 12–4–62, Cl. 244—114.

Schisia, Robert M.: *See*—
Gaertner, Van R., and Schisla.

Schisla, Robert M., and V. R. Gaertner, to Monsanto Chemical Co. 8-quinolyl carbonate derivatives. 3,031,373, 4–24–62, Cl. 167—33.

Schittko, Hans: *See*—
Bidlingmaier, Meinrad, Schittko, and Manfreda.

Schjeldahl, G. T. Co.: *See*—
Hanson, Donald W. 3,066,554.
Hanson, Donald W. 3,067,040.
Seiden, Herman L. 3,043,532.
Seiden, Herman L. 3,043,729.
Seiden, Herman L. 3,059,549.

Schjolin, Hans O.: *See*—
Gegoux, Roland E., and Schjolin.

Schjolin, Hans O., to General Motors Corp. Transmission. 3,041,892, 7–3–62, Cl. 74—732.

Schjolin, Hans O., to General Motors Corp. Vehicle engine and brake cooling system. 3,047,104, 7–31–62, Cl. 188—264.

Schlacht, Kurt: *See*—
Goldthwaite, Val, and Schlacht.

Schlachter, Anton: *See*—
Hagge, Walter, Krause, Quaedvlieg, Schlachter, and Schonol.

Schlack, Paül, and F. Klenhöfer, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for preparing fast black dyeings on textile material of polyethylene terephthalate. 3,036,875, 5–29–62, Cl. 8—32.

Schlaeger, Julian R., and L. E. Netherton, to Victor Chemical Works. Stabilized dicalcium phosphate dihydrate. 3,066,056, 11–27–62, Cl. 23—108.

Schlafer, Rudolf: *See*—
Braunhofer, Georg, and Schlafer.

Schlafly, Hubert J., Jr., to Teleprompter Corp. Cuing apparatus. 3,020,532, 2–6–62, Cl. 340—334.

Schlafly, Hubert J., Jr., to Teleprompter Corp. Secret signaling. 3,067,280, 12–4–62, Cl. 178—5.1.

Schlage, Ernest L., to Schlage Lock Co. Boring jig. 3,021,734, 2–20–62, Cl. 77—62.

Schlage, Ernest L., to Schlage Lock Co. Thumb turn for unlocking lockset. 3,027,183, 3–27–62, Cl. 292—140.

Schlage, Ernest L., to Schlage Lock Co. Construction cylinder. 3,046,777, 7–31–62, Cl. 70—371.

Schlage, Ernest L., and R. L. Saylor, to Schlage Lock Co. Hold open device for door closer. 3,028,619, 4–10–62, Cl. 16—49.

Schlage, Ernest L., and R. L. Saylor, to Schlage Lock Co. Door closer. 3,054,136, 9–18–62, Cl. 16—62.

Schlage, Ernest L., and A. H. Green, to Schlage Lock Co. Method of forming and installing a strike box and strike plate. 3,057,053, 10–9–62, Cl. 29—407.

Schlage Lock Co.: *See*—
De Vines, Hollis. 3,035,432.
Kane, Joseph F. 3,046,042.
Kendrick, Marron. 3,017,213.
Lasier, David W. 3,051,982.
Marotto, Robert A., and De Vines. 3,046,776.
Saylor, Robert L. 3,047,319.
Schlage, Ernest L. 3,021,734.
Schlage, Ernest L. 3,027,183.
Schlage, Ernest L. 3,046,777.
Schlage, Ernest L., and Green. 3,057,053.
Schlage, Ernest L., and Saylor. 3,028,619.
Schlage, Ernest L., and Saylor. 3,054,136.

Schlagel, Carl A.: *See*—
Magerlein, Barney J., Kagan, and Schlagel.

Schlaich, Robert. Temperature control apparatus. 3,065,325, 11–20–62, Cl. 219—20.

Schlanger, Samuel: *See*—
Green, Emil, and Schlanger.

Schlapak, Henry A. Control device. 3,023,772, 3–6–62, Cl. 137—467.5.

Schlapfer, Reinhard: *See*—
Doebel, Karl, Rey-Bellet, Schläpfer, and Spiegelberg.

Schlappal, Frank L. Skiving tool holder. 3,063,318, 11–13–62, Cl. 82—36.

Schlatter, H. A., Aktiengesellschaft: *See*—
Berweger, Erwin.
Neidhardt, Hans U.

Schlatter, Maurice J.: *See*—
Toland, William G., and Schlatter.

Schlatter, Maurice J., to California Research Corp. Reaction products of formaldehyde and o-mercaptomethylbenzoic acid. 3,053,890, 9–11–62, Cl. 260—516.

Schlatter, Walter, to Press & Stanzwerk A.G. Aluminum alloy cartridge case. 3,048,105, 8–7–62, Cl. 102—43.

Schlau, Floyd E., to Strombeck-Becker Mfg. Co. Tethered toy and pylon therefor. 3,022,070, 2–20–62, Cl. 272—31.

Schlau, Floyd E., to Strombeck-Becker Mfg. Co. Toy vehicle steering means. 3,027,682, 4–3–62, Cl. 46—213.

Schlauch, Richard G., to Fuller Co. Method for the production of hydraulic cement. 3,043,703, 7–10–62, Cl. 106—100.

Schlaud, Albert: *See*—
Bartholomä, Johann, and Schlaud. 3,046,550.

Schlayer, Earle G., H. Gegner, L. W. Ballwig, and J. R. Sheridan, to American Cyanamid Co. Liquid tight package. 3,053,386, 9–11–62, Cl. 206—63.3.

Schlecht, Charles H.: *See*—
Parkes, Ralph C., and Schlecht. 3,021,609.

Schlee, Leonard J. Silo heater. 3,038,263, 6–12–62, Cl. 34—34.

Schleede, Dietrich: *See*—
Peters, Heinrich, Schleede, Jochinke, and Klug. 3,025,262.

Schleich, Fritz, and K. H. Steigerwald, to C. Zeiss. Method and means for welding and soldering with the help of beams of charged particles. 3,033,974, 5–8–62, Cl. 219—117.

Schlegel, Fred. Foldable table. 3,049,387, 8–14–62, Cl. 311—89.

Schlegel, John C., Jr., to American Cyanamid Co. Heat resistant polyester of a dicarboxylic acid, a polyhydric alcohol, and a s-triazine having at least two N-alkenyloxy groups and reaction product of ethylenically unsaturated monomer therewith. 3,017,381, 1–16–62, Cl. 260—45.4.

Schlegel, John C., Jr., to American Cyanamid Co. Polyester resin compositions. 3,060,147, 10–23–62, Cl. 260—45.4.

Schlegel, John C., Jr., and C. H. Dugliss, to American Cyanamid Co. Decolorizing synthetic resins. 3,026,283, 3–20–62, Cl. 260—40.

Schlegel, Paul: *See*—
Könemund, Berthold, and Schlegel. 3,037,737.

Schlegel, Robert E., to Rytron Co., Inc. Universal lead mounting. 3,061,762, 10–30–62, Cl. 317—101.

Schlegel, Werner. Window. 3,018,524, 1–30–62, Cl. 20—40.

Schleich, Friedrich. Flexible figure toy. 3,019,552, 2–6–62, Cl. 46—156.

Schleich, Fritz, to C. Zeiss. Apparatus for producing and shaping a beam of charged particles. 3,028,491, 4–3–62, Cl. 250—49.5.

Schleich, Hans, and R. S. Arnold, to Baxter Laboratories, Inc. Compositions and methods for processing meat products. 3,037,870, 6–5–62, Cl. 99—222.

Schleicher, Arthur R., to Phillips Petroleum Co. Initiation of in situ combustion in a carbonaceous stratum. 3,062,282, 11–6–62, Cl. 166—11.

Schleicher, Arthur R., and J. C. Trantham, to Phillips Petroleum Co. In situ combustion process. 3,055,422, 9–25–62, Cl. 166—11.

Schleifer, Josef: *See*—
Miller, Kurt, and Schleifer. 3,022,441.

Schleifer, Josef, to Eugen Bauer, G.m.b.H. Take-up spool drive for photographic projectors. 3,062,463, 11–6–62, Cl. 242—55.11.

Schleifer, Josef, W. Fleck, J. Droppa, and K. Muller, to Eugen Bauer G.m.b.H. Positive carbon holder for arc lamps. 3,030,545, 4–17–62, Cl. 314—80.

Schlein, Seymour N., to The Fanner Mfg. Co., a Division of Textron, Inc. Guy guard. 3,057,443, 10–9–62, Cl. 189—32.

Schlemmer, Robert E., to United States Mineral Wool Co. Machine for projecting fibers. 3,023,967, 3–6–62, Cl. 239—61.

Schlenk, Wilhelm, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Process for lowering the pour point of high boiling point hydrocarbon mixtures, especially lubricating oils. 3,044,949, 7–17–62, Cl. 208—25.

Schlenker, Hans: *See*—
Junghans, Helmut, Braitsch, and Schlenker. 3,022,627.

Schlensker, Albert L., to Golay & Co., Inc. Power lift and tail gate. 3,057,491, 10–9–62, Cl. 214—77.

Schlensker, Hugo J. H., and J. R. Mellott, to Mellott Arrow Crest, Inc. Arrow cresting machine. 3,051,124, 8–28–62, Cl. 118—503.

Schlenz, Hans: *See*—
Block, Stefan, and Schlenz. 3,026,713.

Schlenz, Hans, to Hartmann & Braun Aktiengesellschaft. Apparatus for the analysis of flue gas and protective gas. 3,032,402, 5–1–62, Cl. 23—255.

Schlenz, Hans G.: *See*—
Engelhardt, Heinz, Block, and Schlenz. 3,055,207.

Schleper, Bernard: *See*—
Schaub, Franz, and Schleper. 3,068,584.

Schlepitzka, Anton. Parking device. 3,061,119, 10–30–62, Cl. 214—16.1.

Schleppinghoff, Bernhard: *See*—
Kronig, Walter, and Schleppinghoff. 3,066,927.

Schlesinger, Albert, to Endo Laboratories, Inc. Salt of nicotinic acid. 3,031,451, 4–24–62, Cl. 260—253.

Schlesinger, Heinz, to Azoplate Corp. Member for electrophotographic reproduction and apparatus therefor. 3,066,023, 11–27–62, Cl. 96—1.

Schlesinger, Kurt, to Motorola, Inc. Deflection controlled tube. 3,038,101, 6–5–62, Cl. 315—22.

Schless, Robert A., Jr., deceased: S. E. Schless and W. R. La Flure, executors. Support for sliding shelves. 3,023,-910, 3–6–62, Cl. 211—143.

Schless, Shirley E.: *See*—
Schless, Robert A., Jr. 3,023,910.

Schlessel, Joseph H., and G. Hornstein, to Federal Pacific Electric Co. Electrical control centers. 3,041,506, 6–26–62, Cl. 317—120.

Schley, Friedrich. Free piston engines. 3,049,109, 8–14–62, Cl. 123—7.

Schlicher, David W., to Electric Machinery Mfg. Co. Variable-speed drives. 3,031,747, 10–30–62, Cl. 310—95.

Schlichting, Raymond C.: *See*—
Arnold, George B., Kluge, Schlicht and Smolin. 3,017,-430.
Morris, John R., Schlicht, Adams, and Lawrence. 3,017,-361.

Schlicht, Raymond C., and H. D. Kluge, to Texaco Inc. Hyperbasic sulfonates. 3,057,896, 10–9–62, Cl. 260—435.

Schlichtkrull, Jorgen, to Nonvo Terapeutisk Laboratorium A/S. Process for treatment of insulin crystals and for production of insulin preparations therefrom. 3,058,885, 10–16–62, Cl. 167—75.

Schlicke, Heinz M., to Allen-Bradley Co. Feed-through capacitor. 3,023,383, 2–27–62, Cl. 333—79.

Schlicke, Heinz M., to Allen-Bradley Co. Feed-through capacitor. 3,035,237, 5–15–62, Cl. 333—79.

Schlicke, Heinz M., to Allen-Bradley Co. Narrow band high frequency filter. 3,060,391, 10–23–62, Cl. 333—73.

Schlidt, Rudolf H., and F. K. Pauli, Handle for rapid interchangeability of various tools. 3,037,783, 6–5–62, Cl. 279—102.

Schliebs, Reinhard, to Bayer Aktiengesellschaft, Farbenfabriken. Process for the production of monomeric neutral aliphatic esters of phosphorus having a coordination number of 3. 3,036,110, 5–22–62, Cl. 260—461.

Schlieker, Willy H., K.G.: *See*—
Behrens, Albert, Kolzow, and Brandt. 3,066,761.
Kuckens, Alexander. 3,030,488.

Schliephacke, Fridtjof F., to A. Lorenz. Multiple position relecining chair. 3,030,142, 4–17–62, Cl. 297—88.

Schliephacke, Fridtjof F., to A. Lorenz. Reclining chair and leg-rest. 3,030,143, 4–17–62, Cl. 297—89.

Schliephacke, Fridtjof F., to A. Lorenz. Reclining chair with leg-rest mounting linkage. 3,030,144, 4–17–62, Cl. 297—89.

Schliephacke, Fridtjof F., to A. Lorenz. Multiple position reclining chair. 3,032,372, 5–1–62, Cl. 297—89.

Schliephacke, Fridtjof F., to A. Lorenz. Leg-rest actuating means for multiple-position reclining chairs. 3,033,611, 5–8–62, Cl. 297—88.

Schliephacke, Fridtjof F., to A. Lorenz. Control means for multiple-position reclining chair. 3,033,612, 5–8–62, Cl. 297—88.

Schliephacke, Fridtjof F., to A. Lorenz. Improved reclining chair of the double movement type. 3,039,814, 6–19–62, Cl. 297—68.

Schliephacke, Fridtjof F., to A. Lorenz. Leg-rest control assembly for multiple position reclining chair. 3,039,816, 6–19–62, Cl. 297—88.

Schliephacke, Fridtjof F., to A. Lorenz. Multiple-position reclining chair. 3,044,826, 7–17–62, Cl. 297—88.

Schliephacke, Fridtjof F., to A. Lorenz. Reclining chair and seat control. 3,047,336, 7–31–62, Cl. 297—85.

Schliephacke, Fridtjof F., to A. Lorenz. Leg rest control linkage for reclining chairs. 3,054,639, 9–18–62, Cl. 297—89.

Schliephacke, Fridtjof F., to A. Lorenz. Leg-rest control means for multiple-position reclining chair. 3,055,702, 9–25–62, Cl. 297—88.

Schliephacke, Fridtjof F., to A. Lorenz. Multiple position reclining chair. 3,055,703, 9–25–62, Cl. 297—89.

Schliephacke, Fridtjof F., to A. Lorenz. Leg rest control arrangement for multiple-position reclining chair. 3,057,632, 10–9–62, Cl. 297—88.

Schliephacke, Fridtjof F., to A. Lorenz. Reclining chair and leg-rest control. 3,058,775, 10–16–62, Cl. 297—89.

Schliephacke, Fridtjof F., to A. Lorenz. Reclining chair of the multiple position type. 3,059,968, 10–23–62, Cl. 297—321.

Schliephacke, Fridtjof F., to A. Lorenz. Reclining chair of the multiple position type. 3,059,969, 10–23–62, Cl. 297—321.

Schliephacke, Fridtjof F., to A. Lorenz. Reclining chair of the double movement type. 3,061,366, 10–30–62, Cl. 297—88.

Schliephacke, Fridtjof F., to A. Lorenz. Multiple position reclining chair. 3,061,367, 10–30–62, Cl. 297—89.

Schliephacke, Fridtjof F., to A. Lorenz. Reclining chair and leg-rest control. 3,065,025, 11–20–62, Cl. 297—89.

Schliephacke, Fridtjof F., to A. Lorenz. Reclining chair of the multiple position type. 3,065,026, 11–20–62, Cl. 297—322.

Schliephacke, Fridtjof F., to A. Lorenz. Reclining chair and leg-rest control arrangement. 3,065,990, 11–27–62, Cl. 297—89.

Schliephacke, Fridtjof F., to A. Lorenz. Multiple-position reclining chair. 3,068,047, 12–11–62, Cl. 297—88.

Schliephacke, Fridtjof F., to A. Lorenz. Multiple-position reclining chair. 3,069,200, 12–18–62, Cl. 297—85.

Schlig, Eugene S.: *See*—
Walker, Robert M., and Schlig. 3,020,489.

Schlimgen, Lucian G., Jr.: *See*—
Gilroy, John, and Schlimgen. 3,033,195.

Schlinger, Warren G.: *See*—
Eastman, Du Bois, and Schlinger. 3,017,345.
Eastman, Du Bois, and Schlinger. 3,044,948.

Schlinger, Warren G., and D. B. Eastman, to Texaco Inc. Hydrocarbon conversion process. 3,044,951, 7–17–62, Cl. 208—58.

Schlittler, Emil, to Ciba Pharmaceutical Products, Inc. methyl O-aminobenzoyl-resorpates. 3,025,298, 3–13–62, Cl. 260—287.

Schlitz, Jos., Brewing Co.: *See*—
Uihlein, Erwin C., and Jorgensen. 3,039,615.

Schlitz, Thomas R. Bird feeder. 3,040,705, 6–26–62, Cl. 119—51.

Schlitzkus, Robert F., to Smith-Corona Marchant Inc. Method of molding indicia wheels. 3,016,579, 1–16–62, Cl. 18—59.

Schloemann Aktiengesellschaft: *See*—
Arenz, Matthias. 3,028,007.
Billen, Peter, Dicks and Legros. 3,054,283.
Billen, Peter, Robra, Müller, and Vievering. 3,031,903.
Haendeler, Walter. 3,040,884.
Hofmann, Wilhelm. 3,070,391.
Robra, Helmut. 3,027,918.
Schoen, Hans, and Claas. 3,068,992.
Smeets, Helmut. 3,067,964.
Volkhausen, Clemens, and Teutsch. 3,049,949.

Schloemann, Ernest F. R. A., and M. H. Sirvetz, to Raytheon Co. Orientation of ferromagnetic particles. 3,066,355, 12–4–62, Cl. 18—48.

Schlohlein, Fritz: *See*—
Krohn, Alfred, and Schlohlein. 3,019,364.

Schlör, Hanshelmut, and L. Eue, to Farbenfabriken Bayer Aktiengesellschaft. Method for controlling plant growth. 3,070,433, 12–25–62, Cl. 71—2.7.

Schlosser, Erwin, and G. Meier, to Gritzner-Kayser Aktiengesellschaft. Sewing machines. 3,066,627, 12–4–62, Cl. 112—260.

Schlosser, Francis G., and S. F. Gazzo, to Pfaff and Kendall. Outdoor lighting unit. 3,050,620, 8–21–62, Cl. 240—25.

Schlosser, Russell K., Jr., to General Electric Co. Hand brake rigging. 3,036,666, 5–29–62, Cl. 188—46.

Schlosser, Russell K., Jr., and W. C. Cohn, to General Electric Co. Method of mounting machines. 3,036,375, 5–29–62, Cl. 29—467.

Schlott, Heinz H., to Curtiss-Wright Corp. Method of cleaning. 3,024,138, 3–6–62, Cl. 134—1.

Schlotthauer, Herman E.: *See*—
Edelstone, Sigmund E., Dunlop, and Schlotthauer. 3,049,262.

Schlotzhauer, Allan T.: *See*—
Newman, Douglas A., and Schlotzhauer. 3,037,879.
Newman, Douglas A., and Schlotzhauer. 3,054,692.
Newman, Douglas A., and Schlotzhauer. 3,057,999.

Schluchter, Jean, to Indufi S.A. de Participations. Automatic machine for the drilling of a succession of bores in parts made of hard material. 3,050,047, 8–21–62, Cl. 125—30.

Schluckebier, Rudolf, & Co.: *See*—
Johnstone, Charles W. 3,021,467.
Kirchner, Francois F. 3,023,358.
Kisling, James W., III. 3,022,826.
Meister, Ernst, and Bannach. 3,021,781.

Schluderberg, Donald C.: *See*—
Poole, Edward M., and Schluderberg. 3,063,926.

Schluderberg, Donald C., and J. W. Ryon, to United States of America, Atomic Energy Commission. Solid gas suspension nuclear fuel assembly. 3,033,773, 5–8–62, Cl. 204—193.2.

Schlueter, Dennis H., and E. H., to Lehr Mfg. Corp. Truck box tilting mechanism. 3,043,629, 7–10–62, Cl. 298—22.

Schlueter, Edward H.: *See*—
Schlueter, Dennis H., and E. H. 3,043,629.

Schlueter, Ernest. Quick acting clamp. 3,024,511, 3–13–62, Cl. 24—263.

Schlueter, Ernest. Hook lever lock. 3,033,601, 5–8–62, Cl. 292—100.

Schlueter, Ernest. Hook lock. 3,061,347, 10–30–62, Cl. 292—111.

Schlueter, Robert J.: *See*—
White, Wilfrid F., and Schlueter. 3,033,753.

Schlumberger, N., & Cie: *See*—
Herubel, Jean F. 3,028,635.

Schlumberger Well Surveying Corp.: *See*—
Arnold, Wayne R. 3,061,728.
Blizard, Robert B. 3,053,338.
Blizard, Robert B., and Gollwitzer. 3,023,362.
Bloembergen, Nicolaas. 3,070,698.
Bowers, William E. 3,034,923.
Bowers, William E. 3,066,253.
Codrington, Robert S. 3,025,456.
Dewan, John T., and Stone. 3,065,346.
Doll, Henri-Georges. 3,060,373.
Easterling, Mahlon F. 3,031,612.
Ferre, Maurice C. 3,030,021.
Herrald, Arthur E. 3,056,920.
Huston, Owen H. 3,051,892.
Lanmon, C P, II, and Saurenman. 3,060,588.
Lebourg, Maurice P. 3,016,014.
Lebourg, Maurice P. 3,048,101.
Lebourg, Maurice P. 3,048,102.

Schlumberger Well Surveying Corp.: *See*—Continued
Lebourg, Maurice P., and Fagan. 3,025,794.
Poland, William L. 3,018,045.
Poland, William L. 3,058,097.
Saurenman, Dean F. 3,023,508.
Saurenman, Dean F., and Voetter. 3,066,739.
Schuster, Nick A. 3,017,566.
Schuster, Nick A. 3,034,041.
Schuster, Nick A. 3,052,834.
Schuster, Nick A. 3,067,382.
Soloway, Sidney. 3,034,008.
Tanguy, Denis R. 3,056,917.
Tanguy, Denis R. 3,067,383.
Tixier, Maurice P. 3,050,150.

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Neufeld, Leonard. C., and Schmalfeldt. 3,037,232.

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Schmall, Edwin A.: *See*—
Wainwright, Perry A., and Schmall. 3,069,446.

Schmalz, Alfred C.: *See*—
Keim, Gerald I., and Schmalz. 3,058,873.

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Schmatz, Duane J., to Ford Motor Co. Austenitic alloys. 3,024,103, 3–6–62, Cl. 75—124.

Schmaus, Siegfried H. A., to Ametek, Inc. Adjustable gauge pointer. 3,040,699, 6–26–62, Cl. 116—129.

Schmeck, Robert E.: *See*—
Bernart, William F., Hanson, and Schmeck. 3,016,820.

Schmeck, Robert E., and R. E. Mersereau, to Pitney-Bowes, Inc. Endless conveyor. 3,066,789, 12–4–62, Cl. 198—208.

Schmeisser, Martin, and F. Huber, said Huber, assor. to Schmeisser. Production of nitrogen trifluoride. 3,067,111, 12–4–62, Cl. 204—59.

Schmeller, John L.: *See*—
Rule, Frank M., and Schmeller. 3,045,829.

Schmelzkopf, Robert J.: *See*—
Johnson, Werner E., and Schmelzkopf. 3,056,193.

Schneeri, Ezon E. Electronic adjustable weighing scale. 3,032,131, 5–1–62, Cl. 177—129.

Schmerling, Louis: *See*—
Luvisi, John P., and Schmerling. 3,053,896.
Luvisi, John P., and Schmerling. 3,054,830.
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Luvisi, John P., and Schmerling. 3,064,059.

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Schmerzler, Lawrence J.: *See*—
Levine, Sidney, and Schmerzler. 3,056,603.

Schmid, Christoph W., to Deutsche Erdol-Aktiengesellschaft. Method of and apparatus for flooding sample cores taken from oil-bearing rock strata. 3,018,660, 1–30–62, Cl. 73—153.

Schmid, Dieter F., and F. J. Baur, to The Procter & Gamble Co. Fat crystallization process. 3,059,009, 10–16–62, Cl. 260—428.

Schmid, Dieter F., and F. J. Baur, to The Procter & Gamble Co. Fat crystallization process. 3,059,010, 10–16–62, Cl. 260—428.

Schmid, Erich: *See*—
Graf, Wilfried, Schmid, and Stoll. 3,055,904.
Graf, Wilfried, Schmid, and Stoll. 3,055,905.
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Schmid, Hans, and P. Hauri, to Landis & Gyr A.G. Receiver for remote control impulses. 3,025,496, 3–13–62, Cl. 340—164.

Schmid, Leonard J., and D. R. Scott, to General Motors Corp. Mold for making composite metal bearings. 3,021,579, 2–20–62, Cl. 22—116.

Schmid, Leopold F., to Dr. Ing. Porsche, h.c.F., K.G., Firma. Internal combustion engine. 3,038,459, 6–12–62, Cl. 123—90.

Schmid, Otto, to Etablissement Aeromix. Process and contrivance for separating solid or liquid particles from gases or vapours. 3,016,979, 1–16–62, Cl. 183—7.
Schmid, Raymond W., to The Yale and Towne Mfg. Co. Tubular lock. 3,036,850, 5–29–62, Cl. 292—244.
Schmid, Richard, and W. Wezel, to Schmid & Wezel, Firma. Motor driven, manually operated tool for removing meat from bones. 3,058,149, 10–16–62, Cl. 17—1.
Schmid, Roy R. Cosmetic case. 3,053,381, 9–11–62, Cl. 206—38.
Schmid, Ulrich J. : *See*—
Moulthrop, Maurice J., and Schmid. 3,057,486.
Schmid, Ulrich J., to Foremost Dairies, Inc. Case filling and stacking machine. 3,069,823, 12–25–62, Cl. 53—26.
Schmid & Werzel, Firma : *See*—
Schmid, Richard, and Werzel. 3,058,149.
Schmidding, Wilhelm : *See*—
Brenner, Paul, Kraus, and Schulte. 3,061,447.
Schmider, Henry R. : *See*—
Ferguson, John H., Jr., and Schmider. 3,021,672.
Schmidinger, Joseph. Snap switch. 3,037,102, 5–29–62, Cl. 200—88.
Schmidl, Hans : *See*—
Ramp, Herbert O., and Schmidl. 3,041,534.
Schmidlin, Fred W., J. N. Cooper, and E. C. Crittenden, Jr., to Space Technology Laboratories, Inc. Computer operating method and apparatus. 3,048,825, 8–7–62, Cl. 340—173.1.
Schmidlin, Frederick W., to Space Technology Laboratories, Inc. Nonlinear electrical arrangement. 3,024,140, 3–6–62, Cl. 148—1.5.
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Schmidlin, Julius : *See*—
Reichstein, Tadeus, Wettstein, Anner, Billeter, Heusler, Neher, Schmidlin, Ueberwasser, and Wieland. 3,033,-858.
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Schmidt, Adolf G. M., to J. W. Zanders Feinpapierfabrik G.m.b.H., Firma. Apparatus for contactless guiding and conveying of flexible sheet-like products. 3,057,079, 10–9–62. Cl. 34—156.
Schmidt, Alexander H., to Riley Stoker Corp. Welding apparatus. 3,033,144, 5–8–62, Cl. 113—99.
Schmidt, Alfred, and F. Weinrotter, to Osterreichische Stickstoffwerke Aktiengesellschaft. Process for the removal of lower oxides of nitrogen from gaseous mixtures containing them. 3,034,853, 5–15–62, Cl. 23—2.
Schmidt, Arno G. Binocular loupe frame with sliding and pivotal adjustment of eye loupes. 3,029,696, 4–17–62, Cl. 88—41.
Schmidt, Arno G. Stereoscopic spectacle loupe. 3,045,544, 7–24–62. Cl. 88—41.
Schmidt, Arthur, to North American Philips Co., Inc. Method and a device for inductive heating of work pieces. 3,056,873, 10–2–62, Cl. 219—10.41.
Schmidt, Benjamin F. Reciprocal piston oil well pump. 3,045,606, 7–24–62, Cl. 103—155.
Schmidt, Clarence J., to Goodyear Aircraft Corp. Spherical self-supporting enclosures. 3,043,054, 7–10–62, Cl. 50—52.
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Schmidt, Dagobert O., and A. E. Miller. Pressure sealing piston and ring unit. 3,068,054, 12–11–62, Cl. 309—20.4.
Schmidt, Edward M., to Borg-Warner Corp. Protective recycling circuit for static inverter. 3,037,158, 5–29–62, Cl. 321—14.
Schmidt, Edward R. : *See*—
Herbig, Henry F., and Schmidt. 3,015,696.
Schmidt, Edward R., to General Dynamics Corp. Electronic switching system. 3,023,281, 2–27–62, Cl. 179—175.2.
Schmidt, Edwin X. : *See*—
Howdle, Frederic E., and Schmidt. 3,027,075.
Schmidt, Edwin X., and P. T. Severson, to Cutler-Hammer, Inc. Fluid meter. 3,029,640, 4–17–62, Cl. 73—235.
Schmidt, Erich : *See*—
Hofmann, Rudolf, Schmidt, Reichle, and Moosmuller. 3,065,224.
Schmidt, Erich A., to Universal Button Co. Stapling machine. 3,065,470, 11–27–62, Cl. 1—325.
Schmidt, Ernest C. : *See*—
Schaefer, James C., and Schmidt. 3,028,233.
Schmidt, Ernst : *See*—
Edhofer, Georg, Hollerer, Lebsanft, and Schmidt. 3,028,267.
Schmidt, Ernst, to Augsburg-Nurnberg A.G., Maschinenfabrik. Ring segment seal construction for rotor side faces in rotary positive displacement internal combustion engines. 3,046,069, 7–24–62, Cl. 309—1.
Schmidt, Fred J. : *See*—
Jones, Harold A., and Schmidt. 3,042,403.
Jones, Harold A., Schmidt, and Condon. 3,015,489.
Schmidt, Fred W., to General Metals Corp. Journal bearing. 3,055,717, 9–25–62, Cl. 308—237.
Schmidt, Frederick H., to Thompson Ramo Wooldridge Inc. Shock absorber spring clamp. 3,043,581, 7–10–62, Cl. 267—8.
Schmidt, Friedrich E. : *See*—
Rempka, Joachim K. O., Schmidt, and Woltersdorf. 3,040,176.
Schmidt, Fritz A. F. Combustion chamber for jets and similar engines. 3,048,014, 8–7–62, Cl. 60—39.23.
Schmidt, Fritz A. F. Fuel injection system. 3,054,393, 9–18–62, Cl. 123—139.
Schmidt, George J. : *See*—
Hoelzer, Russell L., and Schmidt. 3,060,852.
Schmidt, Gustav A., to General Electric Co. Fluorine containing composition. 3,038,000, 6–5–62, Cl. 260—448.2.
Schmidt, Hans, to Danfoss. Compressor. 3,061,175, 10–30–62, Cl. 230—24.
Schmidt, Hans R., to Agfa Aktiengesellschaft. Daylight developing apparatus for sheet film packs. 3,060,830, 10–30–62, Cl. 95—90.
Schmidt, Hans-Joachim : *See*—
Fernholz, Hans, Heimann-Trosien, and Schmidt. 3,062,863.
Schmidt, Hans W. : *See*—
Jenkner, Herbert, and Schmidt. 3,027,393.
Schmidt, Harold N., V. Tulisen, L. Katz, and L. D. Lytle, to General Aniline & Film Corp. Conditioning of pigments. 3,022,299, 2–20–62. Cl. 260—246.
Schmidt, Hartman F., deceased, H. C. Schmidt, executrix. Tennis ball fabric. 3,065,520, 11–27–62, Cl. 28—72.
Schmidt, Heinrich : *See*—
Lohmann, Adalbert, Friess, Hinze, and Schmidt. 3,026,-369.
Schmidt, Heinrich, to Lehmann Hein & Co. Aktiengesellschaft. Wire-looping machines. 3,050,089, 8–21–62, Cl. 140—102.
Schmidt, Heinz : *See*—
Heuck, Claus, Rochlitz, Schmidt, Vilcsek, and Winter. 3,070,578.
Strugala, Alfred, Sporenberg, and Schmidt. 3,064,507.
Schmidt, Heinz, P. Reinshagen, W. Ziemer, and F. Holzinger, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for condensing hydrogenous chlorine gas. 3,043,111, 7–10–62, Cl. 62—11.
Schmidt, Helen C. : *See*—
Schmidt, Hartman F. 3,065,520.
Schmidt, Henry C., to Associated Spring Corp. Right-hand wound, left-hand wound, compression, extension, torsion spring. 3,030,783, 4–24–62, Cl. 64—15.
Schmidt, Henry W. Ball game device. 3,033,566, 5–8–62, Cl. 273—26.
Schmidt, Herbert. Automatic tool for setting bristles into brush bodies. 3,059,972, 10–23–62, Cl. 300—5.
Schmidt, John. Canning retort with end-over-end agitation. 3,020,825, 2–13–62, Cl. 99—362.
Schmidt, John, to Crown Cork & Seal Co., Inc. Pouring spout for a container. 3,029,988, 4–17–62, Cl. 222—569.
Schmidt, Josef : *See*—
Hoffmann, Heinrich, Schmidt, and Thiersch. 3,058,891.
Schmidt, Josef, T. Schneider, F. Thiersch, J. Knappstein, O. M. Stuhrmann, R. Eickemeyer, and H. Voll, to C. Still. Dry distillation process and apparatus. 3,054,728, 9–18–62, Cl. 202—144.
Schmidt, Karl, G.m.b.H. : *See*—
Bertram, Eduard, and Diez. 3,017,042.
Schmidt, Karl-Heinz : *See*—
Schlindwein, Karl-Heinz, Schmidt, Suckfull, and Nickel. 3,024,255.
Schmidt, Karl-Ludwig, E. Müller, O. Bayer, K. Genski, and J. Peter, ½ to Bayer Aktiengesellschaft, Farbenfabriken and ½ to Mobay Chemical Co. Preparation of polyurethanes. 3,036,042, 5–22–62, Cl. 260—75.
Schmidt, Kenneth H., to Mosler Research Products, Inc. Protective alarm system. 3,041,592, 6–26–62, Cl. 340—258.
Schmidt, Kenneth H., to Mosler Research Products, Inc. Sonic space alarm. 3,047,850, 7–31–62, Cl. 340—258.
Schmidt, Kurt : *See*—
Louden, William C., and Schmidt. 3,054,922.
Schmidt, Lawrence D., to Allied Chemical Corp. Drying, preheating, transferring and carbonizing coal. 3,047,473, 7–31–62, Cl. 202—27.
Schmidt, Lawrence W., to Hoffman Electronics Corp. Photoelectric measuring device. 3,062,092, 11–6–62, Cl. 88—23.
Schmidt, Louis V., and G. D. Hixenbaugh, to General Dynamics Corp. Landing gear trim compensation system. 3,045,954, 7–24–62, Cl. 244—76.
Schmidt, Ludwig. Fishing line float. 3,060,621, 10–30–62, Cl. 43—44.95.
Schmidt, Lyle L. V., to General Motors Corp. Washing machine with drain pump having means to reduce the power requirements of the pump when operating at high speed. 3,018,650, 1–30–62, Cl. 68—23.
Schmidt, Maximilian P. : *See*—
Sus, Oskar, Neugebauer, and Schmidt. 3,046,123.
Schmidt, Maximilian P., to Azoplate Corp. Process of making printing plates and light sensitive material suitable for use therein. 3,046,110, 7–24–62, Cl. 96—33.
Schmidt, Maximilian P., to Azoplate Corp. Process of making quinone diazide printing plates. 3,046,111, 7–24–62, Cl. 96—33.
Schmidt, Maximilian P., to Azoplate Corp. Light sensitive material for printing and process for making printing plates. 3,046,116, 7–24–62, Cl. 96—33.
Schmidt, Maximilian P., to Azoplate Corp. Process of making printing plates and light sensitive material suitable for use therein. 3,046,118, 7–24–62, Cl. 96—33.
Schmidt, Maximilian P., to Azoplate Corp. Process for the manufacture of printing plates and light-sensitive material suitable for use therein. 3,046,121, 7–24–62, Cl. 96—33.

Schmidt, Maximilian P., to Azoplate Corp. Process for the manufacture of printing plates and light sensitive material suitable for use therein. 3,046,124, 7–24–62, Cl. 96—33.

Schmidt, Maxmilian P., and O. Süs, to Azoplate Corp. Reproduction material. 3,029,146, 4–10–62, Cl. 96—49.

Schmidt, Maximilian P., and O. Süs, to Azoplate Corp. Quinone diazide printing plates. 3,046,112, 7–24–62, Cl. 96—33.

Schmidt, Maximilian P., and O. Süs, to Azoplate Corp. Light sensitive material. 3,046,113, 7–24–62, Cl. 96—33.

Schmidt, Maximilian P., and O. Süs, to Azoplate Corp. Light sensitive material for printing and process for making printing plates. 3,046,115, 7–24–62, Cl. 96—33.

Schmidt, Maximilian P., and O. Süs, to Azoplate Corp. Light-sensitive layers for photo-mechanical reproduction. 3,046,120, 7–24–62, Cl. 96—33.

Schmidt, Maximilian P., W. Neugebauer, and A. Rebenstock, to Azoplate Corp. Photographic material containing light sensitive quinone diazides. 3,046,131, 7–24–62, Cl. 96—75.

Schmidt, Norbert L.: *See*—
Erikson, Evans W., Miller, and Schmitz. 3,064,189.

Schmidt, Oliver G., to Chain Belt Co. Bearing assembly. 3,015,527, 1–2–62, Cl. 308—187.

Schmidt, Osmund: *See*—
Gehm, Robert, Schmidt, and Mertens. 3,051,704.

Schmidt, Otto K.: *See*—
Rosenberg, Sheldon, and Schmidt. 3,016,907.
Rosenberg, Sheldon, and Schmidt. 3,042,552.

Schmidt, Paul: *See*—
Druey, Jean, Eichenberger, Schmidt, and Rossi. 3,060,-177.
Druey, Jean, and Schmidt. 3,064,005.
Druey, Jean, Schmidt, Eichenberger, and Wilhelm. 3,036,070.
Druey, Jean, Schmidt, Eichenberger, and Wilhelm. 3,055,899.
Druey, Jean, Schmidt, Eichenberger, and Wilhelm. 3,055,900.

Schmidt, Paul. Device for extracting jammed rockdrills. 3,016,864, 1–16–62, Cl. 175—136.

Schmidt, Paul E., to Boeing Airplane Co. Pneumatic-powered torque-producing tool. 3,031,008, 4–24–62, Cl. 153—82.

Schmidt, Paul E., and J. F. Waddell, Jr., to Boeing Airplane Co. Staking machine. 3,056,446, 10–2–62, Cl. 153—1.

Schmidt, Richard, to Franz Morat, G.m.b.H. Control device for knitting machines. 3,035,425, 5–22–62, Cl. 66—50.

Schmidt, Richard. Coupling device. 3,063,265, 11–13–62, Cl. 64—31.

Schmidt, Robert C. Bath caddy. 3,024,564, 3–13–62, Cl. 45—28.

Schmidt, Robert F.: *See*—
Link, Charles T., Jr., and Schmidt. 3,024,892.

Schmidt, Robert F., and H. A. Leidecker, to Elgin Sweeper Co. Street sweeping machine. 3,024,485, 3–13–62, Cl. 15—84.

Schmidt, Robert F., and H. A. Leidecker, to Elgin Sweeper Co. Street sweeping machine. 3,037,226, 6–5–62, Cl. 15—82.

Schmidt, Theodor, and K. Wilde, to Indugas, Gesellschaft fur industrielle Gasverwendung m.b.H. Direct-heating oven. 3,021,057, 2–20–62, Cl. 263—15.

Schmidt, Theodore W.: *See*—
Schmidt, John A., Steckler, and Schmidt. 3,070,395.

Schmidt, Thomas R., to Shell Oil Co. Pipe inspection device. 3,060,377, 10–23–62, Cl. 324—37.

Schmidt, Warren E., to Lord Mfg. Co. Lamp support. 3,053,-980, 9–11–62, Cl. 240—90.

Schmidt, Warren J., and S. Salowe, to Westinghouse Electric Corp. Pulse actuated measuring apparatus. 3,058,223, 10–16–62, Cl. 33—129.

Schmidt, Webster R., to E. I. du Pont de Nemours and Co. Heat stable coated fabric comprising aromatic polyamide fabric coated with copolymer of vinylidene fluoride and hexafluoropropene. 3,025,185, 3–13–62, Cl. 117—138.8.

Schmidt, Werner, to Siemens and Halskke Aktiengesellschaft Berlin and Munich. Flip flop diode with current dependent current amplification. 3,035,213, 5–15–62, Cl. 317—234.

Schmidt, Werner B. Apparatus and method for producing three-dimensional representations of chess situations. 3,036,387, 5–29–62, Cl. 35—29.

Schmidt, Werner H., to Lever Bros. Co. Fluid shortening. 3,047,402, 7–31–62, Cl. 99—118.

Schmidt, Wilhelm, to Farschungszentrum des Luftfahrtindustrie. Drive means for land, water and aircraft. 3,068,-642, 12–18–62, Cl. 60—35.5.

Schmidt, Wilhelm G.: *See*—
Field, John E., and Schmidt. 3,047,363.

Schmidt, Willard C. Tractor seat back-rest. 3,046,051, 7–24–62, Cl. 297—306.

Schmidt, William: *See*—
Neracher, Otto E., Schmidt, and Winicov. 3,039,916.
Winicov, Murray W., and Schmidt. 3,028,299.

Schmidt, William D.: *See*—
Hatstat, Robert G., Lockwood, and Schmidt. 3,019,565.

Schmidt, William E. Traction device for vehicle wheels. 3,016,078, 1–9–62, Cl. 152—216.

Schmidt, Willy A., and B. L. Downey, to General Aniline & Film Corp. Prevention of cyan dye fading in color developed prints and films. 3,035,914, 5–22–62, Cl. 96—55.

Schmidt, Wolfgang, to North American Philips Co., Inc. Tunnel furnace with very high frequencies to heat substances, for example, foodstuffs. 3,048,686, 8–7–62, Cl. 219—10.55.

Schmidt, Wolfgang, and F. Potzl, to North American Philips Co., Inc. Thawing device for deep-froozen substances. 3,058,877, 10–2–62, Cl. 219—10.47.

Schmidt-Hertzberg, Georg: *See*—
Werner, Hans, and Schmidt-Hertzberg. 3,044,524.

Schmidtke, Donald A., to Kummeth Mfg. Co. Collapsible auto desk. 3,066,991, 12–4–62, Cl. 311—21.

Schmidt-Thome, Josef: *See*—
Linder, Fritz, and Schmidt-Thome. 3,057,782.

Schmiedel, Ludwig, to Starcosa Machinen- und Apparatebau G.m.b.H. Device for floating up and washing out of ground products or materials. 3,018,895, 1–30–62, Cl. 210—374.

Schmiedel, Ludwig, to Starcosa Maschinen -und Apparatebau G.m.b.H. Screening of thin starch paste. 3,040,893, 6–26–62, Cl. 210—66.

Schmieder, Emil, and W. Haiss, to Ernst Haiss Eisen- und Metall-KG., Fa. Grinding and polishing mat. 3,050,764, 8–28–62, Cl. 15—209.

Schmieder, Werner: *See*—
Deselmer, Hans, Fuchs, and Schmieder. 3,058,952.

Schmieding, Earl G.: *See*—
Pickard, Porter L., Jr., and Schmieding. 3,059,015.

Schmieding, Warren H. F.: *See*—
Harman, Hal W. 3,039,182.
Vogel, Arthur E. 3,038,844.
Vogel, Arthur E. 3,038,739.
Vogel, Arthur E. 3,065,976.

Schmieg Industries, Inc.: *See*—
Porter, Frederick R. 3,060,863.

Schmier, Alfred, to Fortiv-Union G.m.b.H. Galvanic primary cell. 3,069,488, 12–18–62, Cl. 136—116.

Schmier, Jacob. Locking device for waste receptacle. 3,053,-495, 9–11–62, Cl. 248—313.

Schmier, Jacob, and J. C. Timmins, to Rodale Mfg. Co., Inc. Cube tap. 3,034,084, 5–8–62, Cl. 339—14.

Schmierer, Lukas C., and J. H. F. Valin to Societe Nouvelle d'Electronique. Control unit for digital computing systems. 3,058,658, 10–16–62, Cl. 235—157.

Schmitt, Anthony W. Load wing attachment for bulldozer blade. 3,028,698, 4–10–62, Cl. 37—144.

Schmitt, Edward J., and J. Smith, to Radio Corp. of America. Digital computing systems. 3,023 363, 3–6–62, Cl. 235—176.

Schmitt, Gervase G. Boat rail. 3,055,024, 9–25–62, Cl. 9—1.

Schmitt, Heinz E., to General Electric Co. Powerplant. 3,060,678, 10–30–62, Cl. 60—35.6.

Schmitt, Henry O., Jr.: *See*—
Miller, Walter C., and Schmitt. 3,033,072.
Miller, Walter C., and Schmitt. 3,062,117.

Schmitt, Herman H.: *See*—
Kelly, James M. and E. P., and Schmitt. 3,058,197.

Schmitt, Hubert H. Artificial teeth, facings and method of making and installing. 3,023,501, 3–6–62, Cl. 32—10.

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Schmitz, Ernst: *See*—
Rische, Alfred, Schmitz, and Bischoff. 3,069,474.

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Ryck, Francis M., and Schmitz. 3,048,045.

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Schmitz, Heinrich: *See*—
Grimme, Walter, and Schmitz, 3,029,274.

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Schmitz, Herman J., Jr., to Daystrom, Inc. Tank thermometer. 3,058,347, 10–16–62, Cl. 73—363.9.

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Schmitz, Norbert L., to Wisconsin Alumni Research Foundation. Dynamometer. 3,029,634, 4–17–62, Cl. 73—116.

Schmitz, Robert A., and A. F. Anderson, ¼ to said Anderson, and ¾ to said Schmitz. Biocidal composition and method. 3,016,327, 1–9–62, Cl. 167—22.

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Schmook, Edward, Jr., to Oscar Mayer & Co., Inc. Innovations and improvements in chopper blades. 3,030,993, 4–24–62, Cl. 146—182.

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Schmuk, Joseph E.: *See*—
Mancke, Edgar B., Schmuk, and Temmel. 3,021,189.

Schmulling, Donald W., to Shell Oil Co. Lubricant compositions containing 9-amino acridines. 3,067,137, 12–4–62, Cl. 252—50.

Schmunk, John D., and H. E. Gilliland, to The Hancock Brick and Tile Co. Tile cutting machine. 3,035,469, 5–22–62, Cl. 82—101.

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Schmutz, Roland. Under-mattress. 3,022,523, 2–27–62, Cl. 5—361.

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Schnabel, Robert C.: *See*—
Gaynes, Raymond A., and Schnabel. 3,032,438.

Schnabel, Wilhelm J., to Olin Mathieson Chemical Corp. Alkyl-tris-dialkylphenylsilanes. 3,020,300, 2–6–62, Cl. 260—448.2.

Schnabel, Willy: *See*—
Heymons, Albrecht, and Schnabel. 3,047,460.

Schnable, George L.: *See*—
Fahey, John R., and Schnable. 3,056,074.

Schnable, George L., and J. G. Javes, to Philco Corp. Method of jet plating indium lead alloy electrodes on germanium. 3,017,332, 1–16–62, Cl. 204—15.

Schnable, George L., and J. G. Javes, to Philco Corp. Jet plating method of manufacture of micro-alloy semiconductor devices. 3,034,970, 5–15–62, Cl. 204—15.

Schnack, Nicolaus: *See*—
Hubenett, Fritz, and Schnack. 3,062,891.

Schnacke, Walter H. Sealed bearing and shaft assembly. 3,021,182, 2–13–62, Cl. 308—187.

Schnackenberg, Fred W., to Nordberg Mfg. Co. Thermal flattener plates. 3,051,215, 8–28–62, Cl. 153—32.

Schnädelbach, Martin: *See*—
Deserno, Peter, and Schnädelbach. 3,043,973.

Schnadig Corp.: *See*—
Roe, Richard C., and Robbins. 3,031,230.

Schnaible, Albert P.: *See*—
Haase, Elmer A., Nobles, Schnaible, and McCombs. 3,023,575.

Schnapp, James, to Ronson Corp. Shaver head plate mounting structure. 3,068,568, 12–18–62, Cl. 30—43.

Schneble, Frederick W., Jr., J. McCormack, and R. J. Zeblisky, to Photocircuits Corp. Electroless plating of copper. 3,033,703, 5–8–62, Cl. 117—47.

Schneck, Leslie M., and L. G. Nunn, Jr., to General Aniline & Film Corp. Non-discoloring nonionic surface active compositions. 3,061,552, 10–30–62, Cl. 252—135.

Schnee, Milton C. Containers. 3,018,030, 1–23–62, Cl. 229—39.

Schneeberger, Robert J., to Westinghouse Electric Corp. Electron discharge device. 3,038,095, 6–5–62, Cl. 313—71.

Schnegg, Robert: *See*—
Nawrath, Günter, Schnegg, and Haberstroh. 3,015,480.

Schneible, Claude B., Co.: *See*—
Lundy, Alvin S., and Schreiber. 3,048,956.

Schneider, Abraham: *See*—
Johnson, Herbert L., Reif, and Schneider. 3,052,622.

Schneider, Abraham, to Sun Oil Co. Process for the manufacture of low brittle point polypropylene compositions. 3,018,263, 1–23–62, Cl. 260—45.5.

Schneider, Adam B.: *See*—
Easy, Maurice H., and Schneider. 3,025,513.

Schneider, Alexander W.: *See*—
Whiting, Edwin F., and Schneider. 3,019,238.

Schneider, Alfred: *See*—
Burris, Leslie, Jr., and Schneider. 3,023,097.

Schneider, Alfred, and E. Zukowski, to Celanese Corp. of America. Coating process for the preparation of a film casting surface and resultant article. 3,039,887, 6–19–62, Cl. 117—5.3.

Schneider, Arthur G. Inboard-outboard power boat propulsion means. 3,054,376, 9–18–62, Cl. 115—35.

Schneider, Arthur H., and O. K., to Plan Hold Corp. Two-piece binder clamp. 3,069,737, 12–25–62, Cl. 24—66.

Schneider, Arthur J. R., to Waste King Corp. Right angle drive steerable propeller. 3,021,725, 2–20–62, Cl. 74—665.

Schneider, Carl, Firma: *See*—
Diehl, Ludwig, and Fuchs. 3,051,537.

Schneider, Charles: *See*—
Keller, Arthur C., Peek, Schneider, and Spahn. 3,042,-773.

Schneider, Edmund C., Jr., to Peter J. Schweitzer Division, Kimberly-Clark Corp. Apparatus for decorticating flax. 3,064,315, 11–20–62, Cl. 19—33.

Schneider, Elmer M.: *See*—
Knechel, William J., and Schneider. 3,056,898.

Schneider, Emmor V., to Alliance Mfg. Co., Division of Consolidated Electronics Industries Corp. Meter and brake therefor. 3,022,460, 2–20–62, Cl. 324—140.

Schneider, Ernest W.: *See*—
Barrett, Edward L. 3,017,449.

Schneider, Frank L. Dust collection. 3,044,235, 7–17–62, Cl. 55—84.

Schneider, Frederick. Roasting pans and adjustable spits therefor. 3,028,802, 4–10–62, Cl. 99—421.

Schneider, Frederick, and L. Giroud, to L'Air Liquide, Societe Anonyme Pour l'Etude et l'Exploitation des Procedes Georges Claude. Multi-flux continuous electrode. 3,045,110, 7–17–62, Cl. 219—146.

Schneider, George W., Jr.: *See*—
Shaffer, George E., Jr., and Schneider. 3,015,544.

Schneider, George W., Jr., to Roy Milton Co. Pneumatic programming system for colorimetric analyzers. 3,019,091, 1–30–62, Cl. 23—253.

Schneider, George W., Jr., to Milton Roy Co. Chemical blank colorimetric analyzer. 3,030,192, 4–17–62, Cl. 23—253.

Schneider, Gerhard O. K., to General Dynamics Corp. Automatic communication system. 3,047,669, 7–31–62, Cl. 179—27.

Schneider, Gerhard O. K., to General Dynamics Corp. Electronic ring circuit distributor including selectable interrupting means and output gates to provide non-overlapping operation. 3,047,817, 7–31–62, Cl. 331—57.

Schneider, Gilbert D. and L. A., to Schneider Machine Co. Vibratory slicing apparatus. 3,044,510, 7–17–62, Cl. 144—162.

Schneider, Hans, and G. Feller; said Feller assor. to Metalem S.A. Method of fixing metallic relief horological figures to a metallic watch dial plate. 3,047,942, 8–7–62, Cl. 29—470.

Schneider, Hans-Joachim. Vehicle seat. 3,057,660, 10–9–62, Cl. 297—312.

Schneider, Harold N.: *See*—
Korte, Richard M., and Schneider. 3,050,602.

Schneider, Harold N., to General Electric Co. Fluid blast circuit interrupter. 3,028,465, 4–3–62, Cl. 200—150.

Schneider, Harry: *See*—
Bearden, Robert G., Kimball, Schneider, and Schwieger. 3,045,122.

Schneider, Harry B. Optical viewer particularly for microfilm and transparencies. 3,019,691, 2–6–62, Cl. 88—1.

Schneider, Henri W., and A. C. Leenhouts, to J. F. Scholten and Zonen, N.V. Stop motion device and control circuit therefor. 3,043,991, 7–10–62, Cl. 317—130.

Schneider, Henri W., and A. C. Leenhouts, to J. F. Scholten, and Zonen, N.V. Control circuit for yarn clearing apparatus. 3,052,826, 9–4–62, Cl. 317—149.

Schneider, Henry J., to Rohm & Haas Co. Preparation of ethane tris-sulfides from disulfides and vinyl sulfides. 3,032,-593, 5–1–62, Cl. 260—609.

Schneider, Henry J., to Rohm & Haas Co. α-Substituted vinyl sulfides and their preparation. 3,050,563, 8–21–62, Cl. 260—609.

Schneider, Henry J., to Rohm & Haas Co. Preparation of vinyl sulfides from ethane 1,2-bis sulfides. 3,061,648, 10–30–62, Cl. 260—609.

Schneider, Henry J., to Rohm & Haas Co. One step synthesis of vinyl ethers and vinyl sulfides. 3,062,892, 11–6–62, Cl. 260—609.

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Schneider, Herbert A., to Bell Telephone Laboratories, Inc. Data storage system. 3,064,241, 11–13–62, Cl. 340—173.

Schneider, Hermann F.: *See*—
Howard, Charles M., James, and Schneider. 3,057,205.

Schneider, Dr.-Ing., & Co.: *See*—
Schneider, John. 3,055,535.
Schneider, John, to Dr.-Ing. Schneider & Co. Outdoor lighting fixture. 3,055,535, 9–25–62, Cl. 220—35.
Schneider, Jos., & Co.: *See*—
Klemt, Gunter, and Macher. 3,016,799.
Schneider, Jos., & Co., Optische Werke: *See*—
Albrecht, Wolfram. 3,038,379.
Albrecht, Wolfram. 3,045,547.
Albrecht, Wolfram, and Wagner. 3,054,327.
Ewald, Waldemar. 3,021,774.
Ewald, Waldemar, and Tesch. 3,054,338.
Klemt, Günter, and Macher. 3,057,257.
Mahn, Herbert. 3,022,874.
Mahn, Herbert. 3,051,048.
Mahn, Herbert. 3,052,171.
Mahn, Herbert. 3,057,251.
Mahn, Herbert. 3,057,120.
Schutz, Karl H. 3,054,336.
Schneider, Julius F., and D. J. Accinno, to Engelhard Industries, Inc. Thermocouple. 3,066,177, 11–27–62, Cl. 136—5.
Schneider, Kurt R., to Eureka Specialty Printing Co. Sticker apparatus. 3,046,010, 7–24–62, Cl. 271—88.
Schneider, Leon, to Detroit Aluminum & Brass Corp. Bearing shell orienting device. 3,063,543, 11–13–62, Cl. 198—33.
Schneider, Louis J., and R. F. Hackman, to Ross-Temp, Inc. Apparatus for making flake ice. 3,034,317, 5–15–62. Cl. 62—298.
Schneider, Lukas: *See*—
Benz, Jakob, Schneider, and Siegrist. 3,035,043.
Schneider, Lynn A.: *See*—
Schneider, Gilbert D., and L. A. 3,044,510.
Schneider Machine C.: *See*—
Schneider, Gilbert D., and L. A. 3,044,510.
Schneider, Marvin, to Novo Industrial Corp. Vacuum casting nozzle. 3,070,126, 12–25–62, Cl. 137—637.2.
Schneider, Max: *See*—
Horenstein, Victor, Schneider, and Küsel. 3,064,915.
Schneider, Oscar K.: *See*—
Schneider, Arthur H. and O. K. 3,069,737.
Schneider, Paul, and O. Goll, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of vulcanising agents comprising benzoquinone dioxine precipitated on a filler and rubber composition containing same. 3,065,196, 11–20–62, Cl. 260—41.5.
Schneider, R., Etablissements: *See*—
Poelman, Armand, and Germain. 3,034,981.
Schneider, Richard C.: *See*—
Winslow, James C., and Schneider. 3,024,673.
Schneider, Richard F.: *See*—
Schroeder, Arthur C., and Schneider. 3,022,615.
Schneider, Richard M. Pouring attachments for cans and the like. 3,062,409, 11–6–62, Cl. 222—81.
Schneider, Samuel. Can top piercing tool for opening and venting in one operation. 3,055,106, 9–25–62, Cl. 30—6.1.
Schneider, Seymour: *See*—
Beiser, Leo, and Schneider. 3,020,499.
Schneider, Seymour, to Polarad Electronics Corp. Radio frequency signal modifying apparatus for pressurized transmission systems. 3,046,500, 1–9–62, Cl. 333—34.
Schneider, Stanley, to Buttconn Corp. Electrical connector. 3,058,083, 10–9–62, Cl. 339—17.
Schneider, Ted, to Zing Corp. Spray device. 3,032,275, 5–1–62, Cl. 239—318.
Schneider, Ted, and R. C. Littlejohn. Spray gun. 3,037,708, 6–5–62, Cl. 239—318.
Schneider, Theodor: *See*—
Schmidt, Josef, Schneider, Thiersch, Knappstein, Stuhrmann, Eickemeyer, and Voll. 3,054,728.
Schneider, Wilhelm A., to United States of America, Army. Insulated electrical connector. 3,015,684, 1–2–62, Cl. 174—88.
Schneider, Wilhelm A., to United States of America, Army. Connecting means. 3,041,575, 6–26–62, Cl. 339—99.
Schneider, William P.: *See*—
Ayer, Donald E., and Schneider. 3,027,383.
Lincoln, Frank H., Schneider, and Spero. 3,027,367.
Lincoln, Frank H., Schneider, and Spero. 3,030,360.
Schneider, William P., and R. W. Jackson, to The Upjohn Co. Process for the production of 8(9)-dehydroprogesterone and 9α-hydroxyprogesterone. 3,040,065, 6–19–62, Cl. 260—397.3.
Schneider, William S., and A. P. Corella, to Packaging Frontiers Inc. Packaging machine. 3,026,658, 3–27–62, Cl. 53—28.
Schneider, William S., and J. French; said French assor. to said Schneider. Dispensing container. 3,051,368, 8–28–62, Cl. 229—17.
Schneiderman, Abraham: *See*—
Horowitz, Harry, and Schneiderman. 3,039,791.
Schneiderman, Herman, R. H. Bendarzewski, and J. D. Barney, to Aerojet-General Corp. Method of forming perforated reinforced plastic containers. 3,021,241, 2–13–62, Cl. 156—173.
Schneiders, Joseph: *See*—
Keller, Rudolf, Schneiders, and Wenner. 3,060,222.
Schneiter, Ali, to Ebauches S.A. Pawl and ratchet device. 3,059,500, 10–23–62, Cl. 74—575.
Schnell, Aaron L. Shampoo headrest. 3,026,537, 3–27–62, Cl. 4—159.
Schnell, Albert, H. Reinsch, and E. Lieser, to Eugen Bauer, G.m.b.H. Automatic camera controls. 3,043,186, 7–10–62, Cl. 88—16.
Schnell, Carl, ½ to The Griffith Laboratories, Inc. Comminuting machine. 3,019,067, 1–30–62, Cl. 308—189.
Schnell, Carl, ½ to The Griffith Laboratories, Inc. Comminuting machine. 3,044,515, 7–17–62, Cl. 146—192.
Schnell, Carl, ½ to The Griffith Laboratories, Inc. Blade assembly for comminuting machine. 3,051,208, 8–28–62, Cl. 146—192.
Schnell, Ernst E., to Deere & Co. Clutch for grain drill. 3,027,180, 3–27–62, Cl. 287—52.06.
Schnell, Ernst E., to Deere & Co. Worm gearing. 3,049,936, 8–21–62, Cl. 74—458.
Schnell, Ernst E., to Deere & Co. Hinge for grain drill hoppers. 3,051,347, 8–28–62, Cl. 220—31.
Schnell, Hermann: *See*—
Bottenbruch, Ludwig, Fritz, and Schnell. 3,062,781.
Krimm, Heinrich, and Schnell. 3,064,007.
Krimm, Heinrich, and Schnell. 3,067,169.
Meyer, Karl-Heinrich, and Schnell. 3,017,424.
Ossenbrunner, Armin, Schnell, Klockgether, Geiger, and Freier. 3,023,101.
Rinke, Heinrich, Lahmann, and Schnell. 3,062,780.
Schnell, Hermann, and G. Fritz, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of polyamides. 3,015,652, 1–2–62, Cl. 260—78.
Schnell, Hermann, and G. Fritz, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of high molecular polycarbonates. 3,022,272, 2–20–62, Cl. 260—47.
Schnell, Hermann, L. Bottenbruch, and H. Krimm, to Farbenfabriken Bayer Aktiengesellschaft. Thermoplastic aromatic polycarbonates and their manufacture. 3,028,365, 4–3–62, Cl. 260—47.
Schnell, Hermann, and L. Bottenbruch, to Bayer Aktiengesellschaft, Farbenfabriken. High molecular weight linear alkali-solubie polycarbonates and process for their manufacture. 3.043.800. 7–10–62. Cl. 260—47.
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Schnell, Hermann, and J. Nentwig, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of polyamides from cyclic lactams in pearly form. 3,061,592, 10–30–62, Cl. 260—78.
Schnell, Steve: *See*—
Falk, Edward J., Gold, and Schnell. 3,036,668.
Schnell, Steve, to Wagner Electric Corp. Power hydraulic brake device. 3,032,992, 5–8–62, Cl. 60—52.
Schnell, Steve, to Wagner Electric Corp. Method of forming brake piston. 3,064,346, 11–20–62, Cl. 29—493.
Schnell, Steve, to Wagner Electric Corp. Power hydraulic booster valve. 3,064,431, 11–20–62, Cl. 60—54.6.
Schnellbacher, John J.: *See*—
Sigler, Richard J., and Schnellbacher. 3,017,707.
Sigler, Richard J., and Schnellbacher. 3,017,719.
Sigler, Richard J., and Schnellbacher. 3,032,368.
Schnellmann, Oscar, to Wachtberger vorm. Erich Franke, Maschinenfabrik. Turbine blade copying machine. 3,027,-814. 4–3–62, Cl. 90—24.3.
Schnellmann, Oskar, and Schiller. Typewriter for metals and plastics. 3,059,750, 10–23–62, Cl. 197—6.6.
Schnellpressenfabrik Aktiesgesellschaft Heidelberg: *See*—
Buttner, Artur. 3,045,594.
Ranger, Arthur W. 3,046,883.
Schnepf, Robert W.: *See*—
Gaden, Elmer L., and Schnepf. 3,054,746.
Gaden, Elmer L., Jr., and Schnepf. 3,054,747.
Schnepple, Wayne F.: *See*—
Maiden, Clinton E., and Schnepple. 3.030,562.
Schnetzer, Alfred. Barrel jet cleaning machine. 3,041,786, 7–3–62, Cl. 51—9.
Schnetzer, Alfred, to Bell Intercontinental Corp. Blasting machine. 3,041,787, 7–3–62, Cl. 51—9.
Schneyer, Raymond I., and H. T. Adkins, to Curtiss-Wright Corp. Marine outboard motor. 3,023,724, 3–6–62, Cl. 115—17.
Schnidar, Albert, to Inventa A.G. fur Forschung und Patentverwertung. Process for manufacturing thickened combustible mixtures. 3,036,899, 5–29–62, Cl. 44—7.
Schnider, Otto: *See*—
Besendorf, Hedwig, Brossi, and Schnider. 3,067,203.
Hinderling, Rudolf, Lutz, and Schnider. 3,019,230.
Lutz, August H., and Schnider. 3,058,986.
Schnitzer, Emanuel. Band pass shock absorber. 3,031,181, 4–24–62, Cl. 267—64.
Schnitzer, Emanuel. Band pass shock absorber. 3,031,182, 4–24–62, Cl. 267—64.
Schnitzer, Emanuel. Band pass shock strut. 3,052,458, 9–4–62, Cl. 267—9.
Schnoll, Nathan, to Flow Measurements Corp. Flow cell. 3,015,232, 1–2–62, Cl. 73—204.
Schnoll, Nathan, to Flow Measurements Corp. Flow cell. 3,020,760, 2–13–62, Cl. 73—204.
Schnoor, Edward C. Fletching jig. 3,027,156, 3–27–62, Cl. 269—38.
Schnuerle, Arthur W. Hydraulically controlled tandem suspension for graders. 3,039,789, 6–19–62, Cl. 280—104.5.
Schnur, Martin, and M. Appel. Unitary container and tab and method of forming same. 3,028,070, 4–3–62, Cl. 229—74.

Schnur, Mathew. Hinges. 3,027,592, 4–3–62, Cl. 16—178.
Schnurch, Roland: *See*—
Schwartz, Otto, and Schnurch. 3,055,897.
Schnurr, John R.: *See*—
Schurr, Peter P. and J. R. 3,060,770.
Schnurr, Peter P. and J. R. Guide attachment for a portable drill. 3,060,770, 10–30–62, Cl. 77—55.
Schnyder, Auxilius P., to The Lummus Co. Process for the continuous digestion of cellulosic materials. 3,035,963, 5–22–62, Cl. 162—19.
Schober, Robert, to Friedrich G.m.b.H. Apparatus for catalytic high-pressure syntheses. 3,031,274, 4–24–62, Cl. 23—289.
Schober, Wayne E., to Viking of Minneapolis, Inc. Tape handling machine. 3,023,943, 3–6–62, Cl. 226—181.
Schober, Wayne E., and H. A. Anderson, to Viking of Minneapolis, Inc. Magnetic clutch for tape reel drives. 3,040,857, 6–26–62, Cl. 192—84.
Schoberle, Robert, and R. De Greef, to Solvay & Cie. Gas measuring device. 3,021,200, 2–13–62, Cl. 23—255.
Schock, Richard U., to Abbott Laboratories. Bis-quinaldines. 3,026,322, 3–20–62, Cl. 260—286.
Schock, Richard U., Jr., R. B. Hasbrouck, and D. E. Dickson, to Abbott Laboratories. Bis-lepidines. 3,020,283, 2–6–62, Cl. 260—288.
Schockaert, Jules J. E. M., to International Standard Electric Corp. Carrier supports for sorting machine. 3,015,379, 1–2–62, Cl. 198—145.
Schoeffel, Eugene W.: *See*—
Barton, Daniel M., and Schoeffel. 3,054,653.
Schoeffel, Eugene W., to Sterling Drug Inc. Production of sulfuric acid. 3,042,489, 7–3–62, Cl. 23—167.
Schoeffel, Eugene W., to American Can Co. Vanillin purification. 3,049,566, 8–14–62, Cl. 260—600.
Schoeffel, Eugene W., to Sterling Drug Inc. Sewage treatment. 3,060,118, 10–23–62, Cl. 210—3.
Schoeffler, William A. Sign holder. 3,058,246, 10–16–62, Cl. 40—145.
Schoeld, Edmund A., to Potash Co. of America. Amine flotation reagent preparation. 3,034,985, 5–15–62, Cl. 252—61.
Schoeld, Edmund A., and C. W. Egbom, to Potash Co. of America. Clay depressant. 3,017,028, 1–16–62, Cl. 209—167.
Schoellhorn, Sidney W.: *See*—
Hawkins, James E., Schoellhorn, and Baltosser. 3,046,553.
Schoellig, Alfred, K. G. Roessler, and R. Krallmann, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Linear polyesters dyed with 3'-hydroxyquinophthalone dyestuffs. 3,036,876, 5–29–62, Cl. 8—55.
Schoellkopf, Hugo W., Jr., and D. F. Chandler. Sleeping bags. 3,042,939, 7–10–62, Cl. 5—343.
Schoelm, Charles F.: *See*—
Garrison, Robert A., and Schoelm. 3,053,052.
Schoen, Ax, and F. J. Marascia, to American Cyanamid Co. Process for the production of bromo-7-dialkylaminocoumarins. 3,030,383, 4–17–62, Cl. 260—343.2.
Schoen, Geza E., Jr., and J. J. Leavitt, to American Cyanamid Co. Styryl-bisbenzimidazole brighteners. 3,019,221, 1–30–62, Cl. 260—240.
Schoen, Hans, and H. Claas, to Huttenwerk Oberhausen Aktiengesellschaft and Schloemann Aktiengesellschaft. Apparatus for aligning elongated work pieces. 3,068,992, 12–18–62, Cl. 198—127.
Schoen, John R. Christmas tree holder. 3,052,437, 9–4–62, Cl. 248—44.
Schoen, Walter A. Art of packaging commodities. 3,015,-918, 1–9–62, Cl. 53—29.
Schoen, Walter A., and G. J. Herrick, to Milprint, Inc. Art of producing multiple compartment bags. 3,016,806, 1–16–62, Cl. 93—35.
Schoendube, Charles W.: *See*—
Kettler, Clarence J., Elliott, and Schoendube. 3,054,943.
Schoenfeld, Jack R.: *See*—
Stine, Laurence O., Vesely, and Schoenfeld. 3,058,906.
Schoenholz, Daniel: *See*—
Berkeley, Bernard, and Schoenholz. 3,057,804.
Schoenike, Edgar O.: *See*—
Broadhead, Samuel L., Jr., and Schoenike. 3,056,087.
Schoenleben, Willibald: *See*—
Maisack, Herbert, Peukert, and Schoenleben. 3,037,977.
Schoenmakers, Wijnand J., to North American Philips Co., Inc. Magnetic memory element. 3,066,282, 11–27–62, Cl. 340—174.
Schoepe, Adolf, and O. K. Doyle. Composite housing. 3,032,-229, 5–1–62, Cl. 220—4.
Schoepe, Fred A., and H. J. Venables III, to Thompson Ramo Wooldridge Inc. Optical contour gauge. 3,025,748, 3–20–62, Cl. 88—14.
Schoepf, Fred J.: *See*—
Murtland, James B., Jr., Schoepf, and Skinner. 3,056,-208.
Orbom, Orville E., Murtland, and Schoepf. 3,015,974.
Schoepfle, Blaine O.: *See*—
Weinberg, Alan E., Bean, Robitschek, and Schoepfle. 3,051,585.
Worsley, Michael, Wilson, and Schoepfle. 3,054,760.
Schoepfle, Blaine O., and P. Robitschek, to Hooker Chemical Corp. Flame resistant polyester compositions containing antimony. 3,031,425, 4–24–62, Cl. 260—28.5.
Schoerner, Rudolph T., to Taco Heaters, Inc. Fluid mixing valve. 3,019,986, 2–6–62, Cl. 236—12.
Schoessow, Earl E., to The Babcock & Wilcox Co. Pressure vessel seal. 3,055,538, 9–25–62, Cl. 20—46.
Schofer, Rudolf, W. Heywang, and E. Fenner, to Siemens & Halske Aktiengesellschaft Berlin and Munich. Resistor with high positive temperature coefficient. 3,027,529, 3–27–62, Cl. 338—28.
Schoffmann, Lyle E.: *See*—
Van Helden, William L., and Schoffmann. 3,055,076.
Schofield, Aldred E.: *See*—
Dike, Robert S., Lier, Schofield, and Tuck. 3,030,547.
Schofield, E. L., Inc.: *See*—
Schofield, Earl L. 3,053,163.
Schofield, Earl L., to E. L. Schofield, Inc. Automotive heater. 3,053,163, 9–11–62, Cl. 98—2.
Schofield, Hubert P., to Surplice & Tozer Engineering Co. Ltd. Filing of pressurized containers with liquids of low boiling point. 3,055,402, 9–25–62, Cl. 141—20.
Schofield, Thomas, and J. M. Ratcliffe. Hose holder. 3,056,-571, 10–2–62, Cl. 248—75.
Schofl, Harry: *See*—
Weittenhiller, Hellmuth, Bieger, Schofl, Herbert, Dorschner, and Gross. 3,069,250.
Schohan, George, to United States of America, Navy. Magnetic amplifier sensor circuits. 3,041,530, 6–26–62, Cl. 323—89.
Schoij, Edgar, and C. C. Smith, to Union Special Machine Co. Two-thread chainstitch sewing machine. 3,068,818, 12–18–62, Cl. 112—200.
Scholand, Albert C. Metallic rotary teasel and its support. 3,060,534, 10–30–62, Cl. 26—31.
Scholer, Henry G.: *See*—
Leinkram, Charles Z., and Scholer. 3,024,519.
Scholes, Addison B., to Cersolsun Research Corp. Lamp base assembly. 3,060,344, 10–23–62, Cl. 315—58.
Scholfield, Charles R., J. C. Cowan, and J. P. Friedrich, to United States of America, Agriculture. Linolenate-derived cyclic monomer fraction. 3,041,360, 6–26–62, Cl. 260—405.6.
Scholfield, Richard P., to Wheeldex Mfg. Co., Inc. Index guides and tabs. 3,054,202, 9–18–62, Cl. 40—23.
Scholin, Axel R. Fuel injection apparatus. 3,051,087, 8–28–62, Cl. 103—4.
Scholl Aktingesellschaft, Gebruder: *See*—
Scholl, Walter. 3,047,158.
Scholl, Albert L. and W. I. Resurfacing tool. 3,028,152, 4–3–62, Cl. 262—19.
Scholl, Allen W. Cable and rope holder. 3,066,373, 12–4–62, Cl. 24—136.
Scholl, Bernhard, to Zimmermann & Jansen G.m.b.H. Gas safety means for use in hot blast stoves. 3,039,522, 6–19–62, Cl. 158—123.
Scholl, Edward C.: *See*—
Paulus, George F., and Scholl. 3,068,186.
Scholl, Lester R.: *See*—
Nelson, Archie A., and Scholl. 3,041,050.
Scholl Mfg. Co., Inc., The: *See*—
Bittner, Ernst, and Gnass. 3,063,457.
Hanington, Charles A. 3,029,813.
Hanington, Charles A. 3,063,555.
Levitt, Milton R. 3,063,446.
Schiefsdenz, Erich. 3,061,460.
Scholl, William M., and Pendergast. 3,026,233.
Turkewitsch, William. 3,055,360.
Williams, Robert E. 3,063,076.
Scholl, Walter, to Scholl Aktiengesellschaft, Gebruder. Filing device. 3,047,158, 7–31–62, Cl. 211—126.
Scholl, Warren I.: *See*—
Scholl, Albert L. and W. I. 3,028,152.
Scholl, William M. Orthopedic article of footwear. 3,021,846, 2–20–62, Cl. 128—595.
Scholl, William M. Process of making foot cushioning devices. 3,025,206, 3–13–62, Cl. 154—85.
Scholl, William M. Finger bandage and method of making the same. 3,025,854, 3–20–62, Cl. 128—156.
Scholl, William M. Surgical pad. 3,036,571, 5–29–62, Cl. 128—153.
Scholl, William M. Adhesive traction band. 3,039,459, 6–19–62, Cl. 128—84.
Scholl, William M. Laminated material and method of making the same. 3,039,907, 6–19–62, Cl. 154—53.5.
Scholl, William M. Surgical pad. 3,062,208, 11–6–62, Cl. 128—153.
Scholl, William M. Medicated pad or bandage and method of making the same. 3,062,210, 11–6–62, Cl. 128—156.
Scholl, William M. Foot covering and method of making the same. 3,063,074, 11–13–62, Cl. 12—142.
Scholl, William M. Method of fashioning plastic foam. 3,063,141, 11–13–62, Cl. 29—423.
Scholl, William M. Sandal strap holding means. 3,063,167, 11–13–62, Cl. 36—11.5.
Scholl, William M. Surgical pad and method of making the same. 3,063,448, 11–13–62, Cl. 128—153.
Scholl, William M. Lounge type stitch-down shoe. 3,063,-456, 11–13–62, Cl. 128—610.
Scholl, William M. Foot cushioning and supporting sandal. 3,063,458, 11–13–62, Cl. 128—615.
Scholl, William M. Window package for articles. 3,063,-557, 11–13–62, Cl. 206—78.
Scholl, William M., and L. C. Pendergast, to The Scholl Mfg. Co., Inc. Electronic heat sealing polyurethane foam. 3,026,233, 3–20–62, Cl. 156—251.

Scholle Chemical Corp.: *See*—
Scholle, William R. 3,069,303.
Scholle, William R., to Scholle Chemical Corp. Process and apparatus for producing flexible containers. 3,069,303, 12–18–62, Cl. 156—253.
Schollenberger, Charles S., to The B. F. Goodrich Co. Thermoplastic polyesterurethanes. 3,015,650, 1–2–62, Cl. 260—75.
Schollenberger, Charles S., and J. F. Jones, to The B. F. Goodrich Co. Polyurethane coated articles. 3,030,249, 4–17–62, Cl. 154—43.
Schöllhammer, Friedrich W., and G. Eltze, to Daimler-Benz Aktiengesellschaft. Pressure regulating slide valve, especially for automatic control mechanisms for shifting the gears of motor vehicles. 3,051,191, 8–28–62, Cl. 137—332.
Schöllkopf, Gottfried, and K. Ellinger, to Spintex Spinnerei-Maschinenbau, Stiehl, Fromm & Co. Releasable lock devices for spinning assemblies. 3,056,252, 10–2–62, Cl. 57—152.
Scholtan, Werner: *See*—
Distelmaier, Alfred, and Scholtan. 3,021,260.
Scholte, Joannes W. A., to North American Philips Co., Inc. Electrolytic capacitor. 3,046,457, 7–24–62, Cl. 317—230.
Scholten, J. F.: *See*—
Schneider, Henri W., and Leenhouts. 3,043,991.
Schneider, Henri W., and Leenhouts. 3,052,826.
Scholten, J. F., and Zonen, N.V.: *See*—
Glastra, Hendrik. 3,023,656.
Scholten, Jan, to North American Philips Co., Inc. Container consisting of a crate box with detachable walls. 3,023,890, 3–6–62, Cl. 206—65.
Scholten's, W. A., Chemische Fabrieken N.V.: *See*—
Lolkema, Jan, Moes, and Vogel. 3,036,935.
Strating, Jan, Moes, and Vogel. 3,046,272.
Scholtes, Albert J. Picking spindle for cotton picker. 3,017,-734, 1–23–62, Cl. 56—50.
Scholtes, Edward A.: *See*—
Federline, William P., and Scholtes. 3,056,451.
Scholtz, Arthur P., to National Can Corp. Receptacle for tape. 3,021,987, 2–20–62, Cl. 225—25.
Scholtze, Frans: *See*—
Wijdeveld, Petrus W. J., Scholtze, and Bosters. 3,063,-755.
Scholz, Ferdinand G., to Monarch Mfg. Works, Inc. Constant capacity nozzle. 3,053,462, 9–11–62, Cl. 239—465.
Scholz, Heinrich, and P. Guenthert, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of ethylene diamine. 3,067,255, 12–4–62, Cl. 260—585.
Scholz, Hellmut, and F. Kieferle, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Dispersing agents for ethylenically unsaturated compounds. 3,037,007, 5–29–62, Cl. 260—87.7.
Scholz, Michael P., to Paragon Products Corp. Pressure responsive switch for oil pressure gauge. 3,056,298, 10–2–62, Cl. 73—398.
Scholzel, Karl: *See*—
Futterer, Bodo, and Scholzel. 3,064,349.
Schomann, Leonid, to A. Eckerfeld. Diaphragm switch for electric continuous-flow heaters. 3,052,776, 9–4–62, Cl. 200—81.9.
Schomers, William H. Track mechanism for vehicles. 3,019,-061, 1–30–62, Cl. 305—32.
Schon & Cie. G.m.b.H.: *See*—
Michel, Albert, and Schindler. 3,066,329.
Schön, Freiwalt, to Siemens & Halske Aktiengesellschaft. Plug-in contact device for plates carrying circuit components. 3,069,599, 12–18–62, Cl. 317—101.
Schönberg, Manfred, R. Wirtz, and T. Quadflieg, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of olefin oxidation products from olefin-mercury complexes. 3,020,293, 2–6–62, Cl. 260—348.5.
Schondelmaier, Christian. Apparatus for cold molding metal products. 3,042,993, 7–10–62, Cl. 29—34.
Schöne, Siegfried: *See*—
Saupe, Otto, and Schöne. 3,025,088.
Schoneberg, Ernest. Portable steam bath. 3,048,852, 8–14–62, Cl. 4—164.
Schönemann, Karl H., and H. P. de Jongh, to Organon Inc. New 6-methyl-19-nor-testerone derivatives and process for the preparation thereof. 3,047,592, 7–31–62, Cl. 260—397.4.
Schonert, Robert F. Portable haystacking frame. 3,057,359, 10–9–62, Cl. 130—20.
Schonfeldt, Nikolaus A., and K. H. Grunewald, to American Enka Corp. Manufacture of rayon. 3,026,171, 3–20–62, Cl. 18—54.
Schonfield, Maurice J., to Dearborn Gage Co. Air gauge head. 3,028,677, 4–10–62, Cl. 33—178.
Schöninger, Edgar, to Durowe, A.G. Electric drive device for driving a mechanical oscillatory system. 3,061,796, 10–30–62, Cl. 331—110.
Schoninger, Edgar, to Siemens & Halske Aktiengesellschaft. Arrangement for driving the oscillator of a time piece. 3,064,146, 11–13–62, Cl. 310—36.
Schonol, Karl: *See*—
Hagge, Walter, Krause, Quaedvlieg, Schlachter, and Schonol. 3,065,110.
Schonstedt, Erick O., to United States of America, Navy. Device for detecting or measuring magnetic fields. 3,050,-679, 8–21–62, Cl. 324—43.
Schönthaler, Rubi, and E. Schenkengel, to G. M. Pfaff, A.G. Freely rotating looper for sewing machines. 3,053,208, 9–11–62, Cl. 112—228.
Schoolcraft, Doyne W. Hatchway chute system for cargo ships. 3,068,982, 12–18–62, Cl. 193—30.
Schooler, Nathan. Gravity door hinge set. 3,059,270, 10–23–62, Cl. 16—154
Schoolmeester, Albert: *See*—
De la Kéthulle de Ryhove, Jacques and J. P., Schoolmeester and De Hemptinne. 3,030,279.
Schoonderwoerd, Jake: *See*—
Finger, Charles E., and Schoonderwoerd. 3,064,791.
Schoonmaker, Charles D., to King Container Corp. Apparatus for assembling a three component closure into a unitary assembly. 3,029,176, 4–10–62, Cl. 156—362.
Schoos, Maurice A., to Kenney Mfg. Co. Ball bearing assembly and loading apparatus. 3,034,839, 5–15–62, Cl. 308—193.
Schoot, Cornelis J., M. J. Koopmans, and B. G. van den Bos, to North American Philips Co., Inc. Bis(dimethylamido) pentachlorophenyl-phosphate and the thiolophenyl phosphate derivative thereof. 3,038,924, 6–12–62, Cl. 260—461.
Schoot, Cornelis J., K. H. Klaassens, and J. J. Ponjee, to North American Philips Co., Inc. Method of producing aromatic sulphones. 3,045,050, 7–17–62, Cl. 260—607.
Schoot, Cornelis J., and C. M. E. Baans, to North American Philips Co., Inc. Method of producing halogen-diphenyl-sulphones. 3,057,925, 10–9–62, Cl. 260—607.
Schoot, Cornelis J., K. H. Klaassens, and J. J. Ponjee, to North American Philips Co., Inc. Method of producing aromatic sulphones. 3,060,193, 10–23–62, Cl. 260—332.3.
Schopf, Karl, to Georg Fritzmeier, K.G. Shock absorbing arrangement for tractor seats and the like. 3,031,164, 4–24–62, Cl. 248—373.
Schoppee, Lawrence W.: *See*—
Hampe, William, and Schoppee. 3,044,226.
Schordine, Fred J. Combined cooling and heating system with four solenoid valves. 3,023,592, 3–6–62, Cl. 62—324.
Schorn, Henry: *See*—
Wilhelm, Gary, and Schorn. 3,044,203.
Schörner, Christian: *See*—
Bauer, Fritz, and Schörner. 3,043,559.
Schornsheimer, Robert E., to The B. F. Goodrich Co. Method and apparatus for removing a soluble substance from sheet material. 3,057,759, 10–9–62, Cl. 134—15.
Schornsheimer, Robert E., to The B. F. Goodrich Co. Method of making an inflatable article from thermoplastic films. 3,070,481, 12–25–62, Cl. 156—242.
Schorr, Jerome: *See*—
Nemetsky, Irving B., and Schorr. 3,058,747.
Schorr, Manfred: *See*—
Ruschig, Heinrich, Schorr, Fussganger, Bauer, and Nesemann. 3,057,881.
Schorr, Manfred, R. Fussganger, G. Nesemann, and F. Bauer, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Benzyl substituteuted propylamines. 3,054,822, 9–18–62, Cl. 260—471.
Schorr, Theodore H., to Baker Oil Tools, Inc. Parallel tubular string apparatus for well bores. 3,051,247, 8–28–62, Cl. 166—241.
Schorr, Wallace. Locked joint and reinforcing construction for fragile sheet material. 3,028,938, 4–10–62, Cl. 189—36.
Schorsch, Gerald: *See*—
Rosenthal, Walter, and Schorsch. 3,021,216.
Schossberger, Fredric V.: *See*—
Cammack, Rose M., Schossberger, and Ticulka. 3,032,-393.
Schostal, Societe Anonyme: *See*—
Schaming, Guillaume. 3,049,029.
Schotland, Richard M.: *See*—
Rhodes, Ignace, and Schotland. 3,065,106.
Schotsch, Friedrich W. Zipper lubricator. 3,058,144, 10–16–62, Cl. 15—563.
Schott, Donald E., to The Babcock & Wilcox Co. Safety lock for oil burners. 3,031,210, 4–24–62, Cl. 284—16.
Schott, Donald E., to Thomas C. Wilson, Inc. Overspeed safety device. 3,043,273, 7–10–62, Cl. 121—34.
Schott, Hans, to E. I. du Pont de Nemours and Co. Process of preparing and extruding an aqueous gel of polytetrafluoroethylene. 3,038,870, 6–12–62, Cl. 260—29.6.
Schott, Lionel O., to Bell Telephone Laboratories, Inc. Negative resistance diode pulse repeater. 3,051,846, 8–28–62, Cl. 307—88.5.
Schotthoefer, Eugene B., to Schotthoefer Motors Inc. Internal combustion engines of the two cycle opposed piston type. 3,040,721, 6–26–62, Cl. 123—47.
Schotthoefer, Joseph G. Multiple film camera. 3,058,407, 10–16–62, Cl. 95—31.
Schotthoefer Motors Inc.: *See*—
Schotthoefer, Eugene B. 3,040,721.
Schöttler, Helmut, to Phrix-Werke Aktiengesellschaft. Electronic inspection apparatus for textile threads. 3,044,345, 7–17–62, Cl. 88—14.
Schou, Carl E., to Rockwell-Standard Corp. Drive mechanism. 3,023,640, 3–6–62, Cl. 74—732.
Schou, Carl E., to Rockwell-Standard Corp. Lift truck shift. 3,040,408, 6–26–62, Cl. 74—377.
Schouteden, Ferdinand L.: *See*—
Koerber, Willem K., and Schouteden. 3,047,390.
Schouteden, Ferdinand L., to Gevaert Photo-Producten. Polymeric amidoximes and their derivatives and a method of preparing same. 3,063,950, 11–13–62, Cl. 260—2.1.

Schouteden, Ferdinand L., to Gevaert Photo-Producten. Polymeric amidoximes and their derivatives and a method of preparing same. 3,063,951, 11–13–62, Cl. 260—2.1.

Schouten, Gerrit H.: *See*—
Schmitz, Mattheus J., Schouten, and Treure. 3,066,191.

Schrader, Gerhard: *See*—
Hoffmann, Helmut, Lorenz, and Schrader. 3,029,248.
Kayser, Heinrich, Lorenz, and Schrader. 3,019,250.
Lorenz, Walter, and Schrader. 3,025,316.
Lorenz, Walter, and Schrader. 3,060,080.
Schegk, Ernst, and Schrader. 3,021,351.
Schegk, Ernst, and Schrader. 3,042,703.
Schegk, Ernst, and Schrader. 3,056,825.

Schrader, Gerhard, to Farbenfabriken Bayer Aktiengesellschaft. Dithiophosphonic acid amides and process for their production. 3,018,301, 1–23–62, Cl. 260—461.

Schrader, Gerhard, to Farbenfabriken Bayer Aktiengesellschaft. Phosphonic acid esters and process for their production. 3,029,270, 4–10–62, Cl. 260—461.

Schrader, Gerhard, to Farbenfabriken Bayer Aktiengesellschaft. Thiophosphoric acid esters and process for producing them. 3,030,404, 4–17–62, Cl. 260—461.

Schrader, Gerhard, to Farbenfabriken Bayer Aktiengesellschaft. Thiophosphonic acid esters and process for their production. 3,032,580, 5–1–62, Cl. 260—461.

Schrader, Gerhard, to Farbenfabriken Bayer Aktiengesellschaft. Phosphonic acid esters nd their production. 3,047,-605, 7–31–62, Cl. 260—461.

Schrader, Gerhard, to Farbenfabriken Bayer Aktiengesellschaft. Thiophosphoric acid esters. 3,060,217, 10–23–62, Cl. 260—461.

Schrader, Gerhard, to Farbenfabriken Bayer Aktiengesellschaft. Phosphorus ester derivatives of vinyl sulfide and a process for their production. 3,065,256, 11–20–62, Cl. 260—461.

Schrader, Gerhard, to Farbenfabriken Bayer Aktiengesellschaft. Cumarin phosphoric esters and processes for the production thereof. 3,067,210, 12–4–62, Cl. 260—343.2.

Schrader, Jürgen, to Norddeutsche Schraubenund Mutternwerke A.G. Electro-hydraulically operated mechanical grabs. 3,016,260, 1–9–62, Cl. 294—88.

Schrader, Loren E., to Ironrite, Inc. Adjustable feedboard construction for ironers. 3,019,538, 2–6–62, Cl. 38—64.

Schrader, Robert J., to Eastman Kodak Co. Method of mixing polymeric hydrocarbons and waxes. 3,030,322, 4–17–62, Cl. 260—28.5.

Schrage, Albert, to Celanese Corp. of America. Process for the production of nitratoalkyl oxetanes. 3,058,994, 10–16–62, Cl. 260—333.

Schraivogel, Horst, to Daimler-Benz Aktiengesellschaft. Fuel tank construction, especially for motor vehicles. 3,020,950, 2–13–62, Cl. 158—46.

Schram, André, to Glaverbel, S.A. Device for handling sheet material. 3,051,331, 8–28–62, Cl. 214—1.

Schram, Antonius: *See*—
Griffoul, Roger, and Schram. 3,037,142.

Schrameck, Jack E.: *See*—
Hensley, Gilbert J., Kane, and Schrameck. 3,040,149.

Schramm, Arthur G. Self elevating fork lift truck trailer. 3,065,871, 11–27–62, Cl. 214—506.

Schramm, Arthur G. Straddle type load dumping trailers. 3,065,993, 11–27–62, Cl. 298—5.

Schramm, Carl, to The Smyth Mfg. Co. Book forming and pressing machine. 3,016,550, 1–16–62, Cl. 11—1.

Schramm, Charles H.: *See*—
Zief, Morris, and Schramm. 3,041,353.

Schramm, Charles H., to Lever Brothers Co. Process for preparing 3,4',5-tribromosalicylanilide in acetic acid. 3,057,920, 10–9–62, Cl. 260—559.

Schramm, Charles H., and C. B. Miller, to J. T. Baker Chemical Co. Allyl methacrylate modified high flexural strength copolymers and method of preparing the same. 3,062,790, 11–6–62, Cl. 260—80.5.

Schramm, Charles H., and H. Lemaire, to Lever Bros. Co. Process for preparing 3,4',5-tribromosalicylanilide in the presence of a wetting agent. 3,064,048, 11–13–62, Cl. 260—559.

Schramm, Gerhard, and E. Mohr, to Behringwerke Aktiengesellschaft. Process for the preparation of highly concentrated compositions of the receptor destroying enzyme neuraminidase. 3,022,227, 2–20–62, Cl. 195—62.

Schramm, Harry B., to Otis Engineering Corp. Method and apparatus for perforating wells. 3,045,748, 7–24–62, Cl. 166—35.

Schram, Harry B., G. M. Raulins, and J. V. Fredd, to Otis Engineering Corp. Well tool having pivotally connected tubular sections. 3,025,912, 3–20–62, Cl. 166—85.

Schramm, Harry B., deceased (by J. Schramm, executrix), and C. P. Liebert, to Otis Engineering Corp. Method and apparatus for perforating oil wells. 3,040,808, 6–26–62, Cl. 166—35.

Schramm, Harry B., G. M. Raulins, and J. V. Fredd, to Otis Engineering Corp. Well tools for submarine wells. 3,054,449, 9–18–62, Cl. 166—66.5.

Schramm, Jacob H., to Westinghouse Electric Corp. Grain-refined aluminum-iron alloys. 3,026,197, 3–20–62, Cl. 75—124.

Schramm, Josephine: *See*—
Schramm, Harry B., and Liebert. 3,040,808.

Schrank, George I.: *See*—
Dennis, David H., Riull, and Schrank. 3,058,527.

Schratt, Frank S. Thermometer and method of making and calibrating the same. 3,062,035, 11–6–62, Cl. 73—1.

Schraub, Willi, to Scharmann & Co. G.m.b.H. Mounting of face plates for boring and milling machines. 3,016,803, 1–16–62, Cl. 90—11.

Schrauf, Robert: *See*—
Kloepfer, Harry, Frey, Meyer-Simon, and Schrauf. 3,027,230.

Schray, Walter H., and R. H. Randolph, to United Steel & Wire Co. Shipping package. 3,037,658, 6–5–62, Cl. 220—17.

Schreck, Harold J., and J. L. Rockerath, to Jetsaw, Inc. Sewing machine and method. 3,016,028, 1–9–62, Cl. 112—2.

Schreck, Harold J., and J. L. Rockerath, to Jetsew, Inc. Sewing machine. 3,026,833, 3–27–62, Cl. 112—214.

Schreck, Seymour, to Specialties, Inc. Combination camera and film developer. 3,041,952, 7–3–62, Cl. 95—14.

Schrecengost, Ray B.: *See*—
Carlson, Reuben C., Schrecengost, and Henke. 3,027,497.
Marks, Meyer, and Schrecengost. 3,029,305.

Schrecengost, Ray B., to Admiral Corp. Flash-over suppression in cathode ray tubes. 3,015,752, 1–2–62, Cl. 315—16.

Schrecengost, Ray B., to Admiral Corp. Automatic frequency control circuit. 3,041,394, 6–26–62, Cl. 178—7.3.

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Schreiber, August. Cylindrical containers of shaped concrete blocks. 3,031,083, 4–24–62, Cl. 210—532.

Schreiber, Chaim S., to Schreiber System (U.S.A.) Ltd. Apparatus for bending and setting of laminated materials. 3,027,923, 4–3–62, Cl. 144—256.

Schreiber, Charles A., to Dorr-Oliver Inc. Continuously operating sedimentation tanks. 3,036,716, 5–29–62, Cl. 210—528.

Schreiber, Charles R.: *See*—
Hall, John L., Schreiber, and Cushman. 3,044,312.

Schreiber, George C.: *See*—
Lundy Alvin S., and Schreiber. 3,048,956.

Schreiber, Joseph H.: *See*—
Reukert, Donald H., and Schreiber. 3,059,304.

Schreiber, Peter, and H. Claudius, to O. H. Drager. Magnetic control for respirator valve. 3,039,481, 6–19–62, Cl. 137—64.

Schreiber, Stanley: *See*—
Silverschotz, Stanford B., and Schreiber. 3,054,011.

Schreiber System (U.S.A.) Ltd.: *See*—
Schreiebr, Chaim S. 3,027,923.

Schreiber, William F., to Technicolor Corp. Bandwidth reduction system for television signals. 3,017,456, 1–16–62, Cl. 178—6.

Schreiner, William F., to Technicolor Corp. Video bandwidth-saving system. 3,035,121, 5–15–62, Cl. 179—15.55.

Schreinemakers, Josephus. Taking of dental impressions. 3,060,578, 10–30–62, Cl. 32—19.

Schreiner, Horst, and H. Bohm, to Siemens-Schuckertwerke Aktiengeselischaft. Method for producing sintered semiconductor bodies. 3,059,040, 10–16–62, Cl. 136—5.

Schreiner, Kenneth E., to International Business Machines Corp. Broad band frequency divider. 3,031,621, 4–24–62, Cl. 328—30.

Schreiner, Marion J. Metering regulator for anhydrous ammonia. 3,053,273, 9–11–62, Cl. 137—505.13.

Schreiner, Max, Jr., and P. W. Snyder, Jr., to Socony Mobil Oil Co., Inc. Conversion of high boiling hydrocarbons. 3,019,180, 1–30–62, Cl. 208—51.

Schreiner, Norman G.: *See*—
Shrubsall, Arthur E., Claussen, Schreiner, and Jackson. 3,031,345.

Schreiner, Paul E., and J. W. Pell, to Continental Steel Corp. Mat handling machine. 3,039,626, 6–19–62, Cl. 214—6.

Schreiner, Warren C.: *See*—
Loudon, Donald E., and Schreiner. 3,052,523.
Palazzo, Dominic F., and Schreiner. 3,026,682.
Palazzo, Dominic F., and Schreiner. 3,026,683.

Schreiner, Warren C., and D. E. Loudon, to The M. W. Kellogg Co. Phosphorus production. 3,025,140, 3–13–62, Cl. 23—223.

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Schreiter, Heinz W.: *See*—
Dreyer, William H., and Schreiter. 3,049,286.

Schreitmueller, Rudolph F., to Sperry Rand Corp. Single target height indicator. 3,049,702, 8–14–62, Cl. 343—5.

Schrempp, Ernst: *See*—
Barkas, Emanuel, and Schrempp. 3,069,084.

Schrenk, Gotthilf, H. Peter, and E. Wiener, to P. Gossen & Co. G.m.b.H. Photoelectrically controlled switching device. 3,054,928, 9–18–62, Cl. 315—157.

Schrenk, Walter J., to The Dow Chemical Co. Screen changer for extruders. 3,033,256, 5–8–62, Cl. 146—174.

Schreter, Robert E., and A. J. Turpin, to Aeroil Products Co., Inc. Tar pump system. 3,033,245, 5–8–62, Cl. 141—28.

Schreuer, Walter: *See*—
Sproul, Robert W., and Schreuer. 3,063,011.

Schrewelius, Nils G.: *See*—
Amberg, Styrbjorn, and Schrewelius. 3,051,924.

Schrewelius, Nils G., to Aktiebolaget Kanthal. Formation of corrosion-resistant metallic coatings by so-called flame-spraying techniques. 3,025,182, 3–13–62, Cl. 117—105.

Schrewelius, Nils G., to Aktiebolaget Kanthal. Electric resistance heating elements and their manufacture. 3,027,-331, 3–27–62, Cl. 252—518.

Schrewelius, Nils G., to Aktiebolaget Kantha. Heat resistant and oxidation proof materials. 3,036,017, 5–22–62, Cl. 252—516.

Schrewelius, Nils G., and K. H. J. Medin, to Aktiebolaget Kanthal. Heat resisting materials and methods for their manufacture. 3,027,330, 3–27–62, Cl. 250—518.

Schreyer, Edward P., and M. G. Whitfield, to Whitfield Laboratories, Inc. Metal coating apparatus. 3,044,439, 7–17–62, Cl. 118—107.

Schreyer, Karl, and H. Gaudich, to Siemens-Schuckertwerke Aktiengesellschaft, and Klockner-Humboldt-Deutz AG. Method and device for butt welding of heavy workpieces. 3,027,448, 3–27–62, Cl. 219—101.

Schreyer, Kenneth D.: *See*—
Devonshire, William H., Robins, and Schreyer. 3,064,586.

Schreyer, Kenneth D., to Columbus McKinnon Corp. Feeder conveyor. 3,047,125, 7–31–62, Cl. 198—57.

Schreyer, Kenneth D., to Columbus McKinnon Corp. Loose material feeder. 3,052,343, 9–4–62, Cl. 198—164.

Schreyer, Kenneth D., to Columbus McKinnon Chain Corp. Trolley conveyor suspension device. 3,059,589, 10–23–62, Cl. 104—111.

Schreyer, Kenneth D., to Columbus McKinnon Corp. Interlocking mechanism for conveyors. 3,060,866, 10–30–62, Cl. 104—172.

Schreyer, Kenneth D., to Columbus McKinnon Corp. Feeding conveyor. 3,063,545, 11–13–62, Cl. 198—76.

Schreyer, Ralph C.: *See*—
Bro, Manville I., and Schreyer. 3,032,543.

Schrieber, Herbert S. Spinal column supporter. 3,052,236, 9–4–62, Cl. 128—78.

Schrieber, Robert G., to International Telephone and Telegraph Corp. Automatic tracking system. 3,020,537, 2–6–62, Cl. 343—7.4.

Schriesheim, Alan, to Esso Research and Engineering Co. Disproportionation of toluene. 3,068,302, 12–11–62, Cl. 260—672.

Schriesheim, Alan, and G. R. Gilbert, to Esso Research and Engineering Co. Supported catalyst paraffin alkylation process. 3,045,056, 7–17–62, Cl. 260—683.53.

Schrijver, Henri. Ventilator. 3,035,506, 5–22–62, Cl. 98—70.

Schrimpf, Henry W., to Minneapolis-Honeywell Regulator Co. Information handling apparatus. 3,029,414, 4–10–62, Cl. 340—172.5.

Schrimpf, Henry W., to Minneapolis-Honeywell Regulator Co. Information storage apparatus. 3,047,868, 7–31–62, Cl. 346—74.

Schriner, John E.: *See*—
Achterhof, Marvin, Henley and Schriner. 3,026,271.

Schriner, John E., to The Eagle-Picher Co. Method and apparatus for molding. 3,066,351, 12–4–62, Cl. 18—4.

Schriner, John E., and W. M. Dice, Jr., to The Eagle-Picher Co. Grounded floating mounting ring. 3,037,150, 5–29–62, Cl. 317—2.

Schrock, Louise A. Hair curlers. 3,016,909, 1–16–62, Cl. 132—40.

Schrodt, Rudolf: *See*—
Dittrich, Otto, Schrodt, and Karig. 3,052,132.
Karig, Hirbardt, Steuer, Schrodt, and Dittrich. 3,043,152.

Schroeder, Alfred C., to Radio Corp. of America. Color synchronizing apparatus. 3,030,436, 4–17–62, Cl. 178—5.4.

Schroeder, Alfred C., to Radio Corp. of America. Color television. 3,054,852, 9–18–62, Cl. 178—5.2.

Schroeder, Arthur C., and R. F. Schneider, to Schroeder Machines Corp. Method and apparatus for forming cartons. 3,022,615, 2–27–62, Cl. 53—37.

Schroeder, Carl A.: *See*—
Calendine, Roy A., and Schroeder. 3,068,013.

Schroeder, Carl A., to Marsh Wall Products, Inc. Gauging device. 3,034,333, 5–15–62, Cl. 73—7.

Schroeder, Carl W., to Shell Oil Co. Curing polyepoxides with certain metal salts of inorganic acids. 3,018,262, 1–23–62, Cl. 260—29.2.

Schroeder, Charles S., to The Yale & Towne Mfg. Co. Hydraulic transmission. 3,049,884, 8–21–62, Cl. 60—53.

Schroeder, Charles S., to The Yale and Towne Mfg. Co. Tractor-trailer truck. 3,059,795, 10–23–62, Cl. 214—730.

Schroeder, Charles W., to Thomas J. Lipton, Inc. Dehydrating vegetables. 3,025,171, 3–13–62, Cl. 99—204.

Schroeder, David G.: *See*—
Larson, Arne V., Marshek, Putzer, Schroeder, Wright, and Mann. 3,023,826.

Schroeder, David H.: *See*—
Ruocchio, Albert C., and Schroeder. 3,068,362.

Schroeder, Donald C.: *See*—
King, Carl F., Jr., and Schroeder. 3,036,872.

Schroeder, Eugene N., to International Business Machines Corp. Radar display sweep generator for converting slant range to ground range. 3,036,776, 5–29–62, Cl. 235—191.

Schroeder, George F., to Sperry Rand Corp., Ford Instrument Co. Division. Electrical controller for fuel ratio control system. 3,058,043, 10–9–62, Cl. 318—32.

Schroeder, George O., to American Can Co. Method of forming lap seams. 3,058,868, 10–16–62, Cl. 156—153.

Schroeder, Hans J., to BMW Triebwerkbau Gesellschaft m.b.H. Fuel supply system for gas turbines. 3,021,675, 2–20–62, Cl. 60—39.74.

Schroeder, Harald: *See*—
Pohlemann, Heinz, Schroeder, Stummeyer, and Adolphi. 3,031,488.

Schroeder, Harry E., to Mondie Forge Co. Method of making bolting collars. 3,017,699, 1–23–62, Cl. 29—556.

Schroeder, Herbert M., and D. J. Waythomas, to Textron Inc. Urethane modified vegetable oil. 3,022,326, 2–20–62, Cl. 260—404.5.

Schroeder, John A. Railroad journal lubricating pad. 3,033,-625, 5–8–62, Cl. 308—243.

Schroeder, John H.: *See*—
Dieter, William J., Schroeder, and Flynn. 3,045,617.

Schroeder, Juel P., and E. C. Leonard, Jr., to Union Carbide Corp. Phosphorus-containing elastomers. 3,069,372, 12–18–62, Cl. 260—27.

Schroeder, Karl: *See*—
Baumann, Hans. 3,016,190.

Schröeder, Karl, and L. Kochendörfer. Alternating current punch. 3,044,337, 7–17–62, Cl. 83—372.

Schroeder Machines Corp.: *See*—
Schroeder, Arthur C., and Schneider. 3,022,615.

Schroeder, Manfred R., to Bell Telephone Laboratories, Inc. Band compression system. 3,030,450, 4–17–62, Cl. 179—15.55.

Schröder, Otto, to Barmer Maschinenfabrik Aktiengesellschaft. Spindle drive control. 3,036,421, 5–29–62, Cl. 57—88.

Schroeder, Robert C., to David D. Wood. Support member assembly. 3,066,620, 12–4–62, Cl. 105—369.

Schroeder, Robert C., and D. D. Wood. Doorway rail assembly. 3,063,387, 11–13–62, Cl. 105—369.

Schroeder, Walter, to The Cincinnati Milling Machine Co. Transmission creep mechanism for machine tool. 3,052,-334, 9–4–62, Cl. 192—4.

Schroeder, Walter, and A. H. Dall, to The Cincinnati Milling Machine Co. Counterbalance control device. 3,018,697, 1–30–62, Cl. 90—16.

Schroeder, Walter W., and D. B. Peck, to Sprague Electric Co. Tantalum capacitor. 3,056,072, 9–25–62, Cl. 317—230.

Schroeder, Wilburn C., to Fossil Fuels, Inc. Hydrogenation of coal. 3,030,297, 4–17–62, Cl. 208—8.

Schroeder, William: *See*—
Fullerton, Thomas J., and Schroeder. 3,070,237.

Schroeder, Wilson: *See*—
Miller, William J., and Schroeder. 3,023,436.

Schroer, Werner: *See*—
Keller, Richard, Quest, Schroer, and Lochschmidt. 3,048,-206.

Schroll, Gene E.: *See*—
Johnston, James D., Schroll, and Shapiro. 3,037,038.

Schroll, Gene E., to Ethyl Corp. Organomanganese compositions. 3,054,740, 9–18–62, Cl. 204—158.

Schroll, Gene E., to Ethyl Corp. Cyclopentadienyl nickel triorganophosphine halides. 3,054,815, 9–18–62, Cl. 260—439.

Schromshaw, Albert C.: *See*—
Young, Maurice W., and Schromshaw. 3,019,811.

Schroter, Friedrich. Paper processing machines for processing workpieces in the form of sheets, plates or the like. 3,016,006, 1–9–62, Cl. 01—3.

Schroter, Friedrich. Method and device for striking out the waste or use from punched sheet workpieces. 3,055,275, 9–25–62, Cl. 93—36.

Schroter, Kurt: *See*—
Schlaff, Hubert. 3,053,062.

Schröter, Kurt, and B. Walterscheid-Müller, to Jean Walterscheid Kommanditgesellschaft. Journal shaft coupling. 3,070,390, 12–25–62, Cl. 287—53.

Schrotz, Kurt: *See*—
Dausch, Ernst, and Schrotz. 3,021,574.
Kramer, Rolf W., and Schrotz. 3,038,213.

Schubach, Theodor C.: *See*—
Tantlinger, Keith W., and Schubach. 3,058,603.

Schubach, Theodor C., to Fruehauf Trailer Co. Knock-down truck and trailer body construction. 3,034,824, 5–15–62, Cl. 296—28.

Schubach, Theodor C., to Fruehauf Trailer Co. Vehicle body construction. 3,050,335, 8–21–62, Cl. 296—137.

Schubart, Kurt: *See*—
Haupt, Eugen, Leinhos, Rilk, Schubart, and Wustemann. 3,033,079.

Schuber, John, to Allied Chemical Corp. Production of high brightness high strength wood pulps. 3,020,196, 2–6–62, Cl. 162—78.

Schuber, John, to Allied Chemical Corp. Method for production of high brightness high strength wood pulps. 3,020,197, 2–6–62, Cl. 162—78.

Schubert, Adolf, and G. Cohen, to United States of America, Army. Treatment of feathers with Werner-type aluminum complexes. 3,041,130, 6–26–62, Cl. 8—94.1.

Schubert, Albert E., and C. S. Herrick, to General Electric Co. Dual temperature refrigeration. 3,019,614, 2–6–62, Cl. 62—114.

Schubert, Alton J., and F. Sierra, to Standard Electric Co., Inc. Process and apparatus for manufacturing dry charged storage battery plates. 3,065,287, 11–20–62, Cl. 136—19.

Schubert, Bernhard: *See*—
Ritscher, Arthur, and Schubert. 3,044,225.
Wagner, Max, and Schubert. 3,025,843.

Schubert, Bernhard, to Hauni-Werke Korber & Co. K.G. Method and apparatus for the production of a continuous tobacco rod. 3,039,473, 6–19–62, Cl. 131—84.

Schubert, Bernhard, to Hauni-Werke Korber & Co. K.G. Method for making recessed filters, filter rods, or the like. 3,052,163, 9–4–62, Cl. 93—1.

Schubert, Bernhard, and W. W. R. Harnack, to Hauni-Werke Korber & Co., K.G. Device for filling cigarette frames. 3,024,585, 3–13–62, Cl 53—236.

Schubert, Bernhard, and W. Rudsslnat, to Hauni-Werke Korber & Co. K.G. Filter tip cigarette making machines. 3,036,733, 5–29–62, Cl. 221—237.

Schubert, Dale L. : *See—*
Erickson, Harold E., N. E. and C. V. Nelson, and Schubert. 3,019,478.
Erickson, Harold E., N. E. and C. V. Nelson, and Schubert. 3,019,479.
Kiser, Richard D. 3,059,676.

Schubert, Dale L., ½ to Industrial Development Co. Panel board press loader. 3,033,391, 5–8–62, Cl. 214—16.4.

Schubert, Ernest J., to Westinghouse Electric Corp. Channel selector. 3,064,237, 11–13–62, Cl. 340—166.

Schubert, Friedrich : *See—*
Lang, Konrad, and Schubert. 3,037,985.
Lang, Konrad, and Schubert. 3,065,267.

Schubert, Kenneth M., to International Paper Co. Corrugated container. 3,021,044, 2–13–62, Cl. 229—17.

Schubert, Paul R. : *See—*
Hebert, John W., Schubert, and Coles. 3,043,245.

Schubert & Salzer Maschinenfaörik Aktiengesellschaft : *See—*
Hanel, Ewald. 3,053,109.

Schubring, Norman W. : *See—*
Diamond, Milton J., Schubring, and Weller. 3,029,943.

Schubring, Norman W., to General Motors Corp. Flaw detection apparatus. 3,023,609, 3–6–62, Cl. 73—67.2.

Schubring, Norman W., to General Motors Corp. Sonic tester. 3,043,132, 7–10–62, Cl. 73—67.2.

Schuchardt, Helmut : *See—*
Maier, Hartmut W., Schuchardt, and Kuebner. 3,025,980.

Schuchman, Frederick E. : *See—*
Reiser, Alfred A., and Schuchman. 3,054,179.

Schuele, William J., to The Franklin Institute of the State of Pennsylvania. Magnetic particles and method of making same. 3,042,543, 7–3–62, Cl. 117—62.

Schueler, Frederick W. : *See—*
Roberts, Frederick W., Montgomery, and Schueler. 3,024,316.

Schueler, Frederick W., J. Simeone, I. L. Delin, and F. G. Oxland, to Dictaphone Corp. Dictating machine. 3,056,606, 10–2–62, Cl. 274—17.

Schueller, Edward J. Self-operated braking mechanism for automotive trailers. 3,061,124, 10–30–62, Cl. 214—506.

Schueller, Otto. Air conditioning system for space vehicles. 3,022,643, 2–27–62. Cl. 62—216.

Schueller, Otto, to United States of America, Air Force. Space chambers. 3,064,364, 11–20–62, Cl. 35—12.

Schuenzel, Ernest C. : *See—*
Brevick, James M., and Schuenzel. 3,042,619.
Buchholz, Werner, and Schuenzel. 3,060,418.

Schuette, John H., to Invincible Metal Furniture Co. Dictation slide actuated desk drawer lock. 3,029,118, 4–10–62, Cl. 312—221.

Schuetz, James W., to Blaw-Knox Co. Mandrel bar steadier. 3,021,736, 2–20–62, Cl. 80—13.

Schuetze. Hilmar O. Measuring dispensers for roll film. 3,043,012. 7–10–62, Cl. 33—129.

Schuftan, Paul M., to The British Oxygen Co. Ltd. Process for supplying a gaseous product to meet a fluctuating demand. 3,058,315, 10–16–62, Cl. 62—52.

Schuftan, Paul M., and K. C. Smith, to The British Oxygen Co. Ltd. Separation of air. 3,034,306, 5–15–62, Cl. 62—13.

Schugt, Joseph F., to Minneapolis-Honeywell Regulator Co. Position transducer. 3,030,533, 4–17–62, Cl. 310—168.

Schugt, Joseph F., to Minneapolis-Honeywell Regulator Co. Control apparatus. 3,064,171, 11–13–62, Cl. 318—207.

Schuh, Carl F., E. Genning, and G. Hermann, to Protona Productionsgesellschaft fur electroakustische Gerate G.m.b.H. Miniature magnetic sound recording and reproducing device. 3,016,244, 1–9–62, Cl. 274—4.

Schuh, Edward J. Flush tank liner. 3,031,684, 5–1–62, Cl. 4—68.

Schuh, George L., and R. P. Bowlds. Electric football game. 3,046,015, 7–24–62. Cl. 273—94.

Schuh, Raymond W. Toy construction apparatus. 3,066,436, 12–4–62, Cl. 46—30.

Schuhknecht, Ernst. Laterally crimped wire tire insert. 3,053,301, 9–11–62, Cl. 152—211.

Schuhmacher, Jacobus P. : *See—*
De Vries, Harmen, Schuhmacher, and Soeterbroek. 3,068,216.

Schuhmacher, Jacobus P., and H. Hendriks, to Stamicarbon N.V. Process for the manufacture of ethylene polymers. 3,048,575, 8–7–62, Cl. 260—94.9.

Schukat, Georg : *See—*
Beusse, Hans, and Schukat. 3,067,381.

Schukraft, John W., to The Murray Corp. Battery lifter. 3,042,442, 7–3–62, Cl. 294—92.

Schülde, Felix, and O. Mauz, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Polyolefins stabilized with reaction products of nonylphenol and carbonyl compounds. 3,020,259, 2–6–62, Cl. 260—45.95.

Schuldt, Paul H. : *See—*
Bluestone, Henry, Schuldt, Wotiz, Entemann, and Huba. 3,037,058.

Schule, Albert, to Lasso Ropeways Ltd. Aerial ropeway with at least one load carrier. 3,036,531, 5–29–62, Cl. 104—202.

Schulenburg, Wilhelm : *See—*
Steppe, Vollrad, and Schulenburg. 3,017,348.

Schuler, Donald A. Fire fighting apparatus. 3,069,100, 12–18–62, Cl. 239—522.

Schuler, John J. Measuring instrument. 3,037,292, 6–5–62, Cl. 33—147.

Schuler, L., A.G. : *See—*
Wagner, Hans. 3,069,010.

Schuler, Mathias J. : *See—*
Jarvie, John M. S., Schuler, and Sterling. 3,048,610.

Schuler, Max, to Sandoz A.G. Insecticidally and acaricidally active mono- and dithiophosphoric acid esters. 3,022,215, 2–20–62, Cl. 167—22.

Schuler, Max, to Sandoz Ltd. Acaricidally active dithiophosphoric acid esters. 3,032,466, 5–1–62, Cl. 167—30.

Schuler, Norman W. : *See—*
Haas, Howard C., and Schuler. 3,019,131.

Schüler, Werner. Convertible garment of pile material. 3,018,485, 1–30–62, Cl. 2—70.

Schuler, Wilhelm A., H. Beschke, and A von Schlichtegroll, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. 3-trifluoromethyl-10-[3'-(4''-(2''-hydroxy ethyl)-homopiperazino)-propyl]-phenothiazine and 3-trifluoromethyl - 10 - [3' - (4'' - (2'' - acetoxyethyl) - homopiperazino)-propyl]-phenothiazine. 3,040,043, 6–19–62, Cl. 260—243.

Schulhoff, Saul, Jr. Valve assemblies. 3,060,451, 10–30–62, Cl. 4—56.

Schuller, Herl, to Th. Jansen, G.m.b.H. Sealing or shutter valves. 3,023,774, 3–6–62, Cl. 137—553.

Schuller, Herl, to Th. Jansen, G.m.b.H. Slide valve. 3,047,024, 7–31–62, Cl. 138—94.3.

Schuller, James T. : *See—*
Holstein, Alvin W., and Schuller. 3,028,940.

Schuller, James T., to National Vendors, Inc. Coin apparatus. 3,053,370, 9–11–62, Cl. 194—94.

Schuller, James T., to National Vendors, Inc. Check-controlled vending apparatus. 3,054,493, 9–18–62, Cl. 194—94.

Schuller, Max Y. : *See—*
Gaertner, Wolfgang W., and Schuller. 3,040,188.

Schuller Services Ltd. : *See—*
Moar, Jack. 3,026,568.

Schuller, Walter L., and J. A. Price, to American Cyanamid Co. Copolymers of a bis ethylenically unsaturated amine. 3,032,539. 5–1–62, Cl. 260—85.5.

Schuller, Werner H. W. Spinning of glass or other thermoplastic masses from rods. 3,055,051, 9–25–62, Cl. 18—8.

Schuller, Werner H. W., and H. Keib. Continuous spinning of glass or like thermoplastic masses from rods. 3,055,050, 9–25–62, Cl. 18—8.

Schuller, Wolfgang, and L. Goerden. Method for smoothing and evening out the surfaces of pre-moulded parts consisting of inorganic or organic fibers and resulting product. 3,028,282, 4–3–62, Cl. 154—43.

Schulman, Earl L. : *See—*
Boiney, Joseph F., and Schulman. 3,048,508.

Schulman, Milton : *See—*
Strumpf, Milton, and Schulman. 3,044,671.

Schulmerich Electronics, Inc. : *See—*
Kunz, Jacob T. 3,048,071.

Schulpen, Karel H. N. Apparatus for cutting tapered shoulder pads successively and without waste material. 3,026,753, 3–27–62, Cl. 83—154.

Schultz, Albert W. Self-leveling holding device. 3,051,428, 8–28–62, Cl. 248—226.

Schulte, Fredrick E., to Lear, Inc. Magnetic compass compensating system. 3,031,766, 5–1–62, Cl. 33—224.

Schulte, Friedrich W., H. Wiechell, and W. Rosenkranz, to Otto Fuchs Kommandit-Gesellschaft. Synchromesh gear and method and apparatus for making the same. 3,034,383, 5–15–63, Cl. 78—45.

Schulte, Harold F., to Bell Intercontinental Corp. Blasting machine loader. 3,036,413, 5–29–62, Cl. 51—215.

Schulte, Johann F. : *See—*
Butsch, Richard L., and Schulte. 3,034,518.

Schulte, Josef : *See—*
Brenner, Paul, Kraus, and Schulte. 3,061,447.

Schultes, Johannes : *See—*
Ahrens, Erhard, Schultes, Mies, and Kriebel. 3,045,206.

Schultheiss, Alfred : *See—*
Kuppers, Josef, and Schultheiss. 3,026,596.

Schultheiss, Ralph D., to Union Carbide Corp. Method and apparatus for producing extruded structural board. 3,019,483, 2–6–62, Cl. 18—12.

Schultheiss, Ralph D., to Union Carbide Corp. Method and apparatus for producing extruded thermoplastic net. 3,029,174, 4–10–62, Cl. 154—90.

Schultz, Allan R. : *See—*
Roth, Paul L., and Schultz. 3,052,654.

Schultz, Arthur R. P. Syringe holder. 3,063,449, 11–13–62, Cl. 128—215.

Schultz, Blaine H., S. J. Spiece, and D. J. J. Pirhofer, to McGraw-Edison Co. Capacitor protective circuit and apparatus. 3,062,989, 11–6–62, Cl. 317—12.

Schultz, Charles G., to Abbott Laboratories. Stable heparin solution. 3,030,272, 4–17–62, Cl. 167—74.

Schultz, Charles H. Roller bearings for members executing longitudinal and rotary movements of an unlimited amplitude. 3,037,821, 6–5–62, Cl. 308—6.

Schultz, Dale G., to Dale Gordon Designs, Inc. Advertising displays. 3,032,905, 5–8–62, Cl. 40—133.
Schultz, Dale G., to Dale Gordon Designs, Inc. All-purpose table. 3,058,793, 10–16–62, Cl. 311—3.
Schultz, David C. Releasable float. 3,037,318, 6–5–62, Cl. 43—44.87.
Schultz, Edward H., Jr., to The Nagel-Chase Mfg. Co. Pulley hub. 3,069,918, 12–25–62, Cl. 74—230.4.
Schultz, Edward H., Jr., to The Nagel-Chase Mfg. Co. Stepped pulley. 3,069,919, 12–25–62, Cl. 74—230.8.
Schultz, Edward J. Lighting fixture. 3,040,993, 6–26–62, Cl. 240—41.6.
Schultz, Edward W.: *See*—
Linehan, John J., and Schultz. 3,037,535.
Schultz, Eugene L. Dialyzer constructions. 3,055,504, 9–25–62, Cl. 210—241.
Schultz, Everett M., and E. J. Cragoe, Jr., to Merck & Co., Inc. 4-aryl, 4-alkaryl-5-oxohexanoic acid. 3,042,714, 7–3–62, Cl. 260—515.
Schultz, Forrest O. E., to Midland-Ross Corp. Fluid spring. 3,046,003, 7–24–62, Cl. 267—65.
Schultz, Frederick E., to General Eletcric Co. Reignitable solid rocket motor. 3,065,596, 11–27–62, Cl. 60—35.3.
Schultz, Frederick E., to General Electric Co. Reignitable solid rocket motor. 3,065,598, 11–27–62, Cl. 60—35.3.
Schultz, George, and M. Dziki, to Industrial Shoe Machinery. Bottom ironer. 3,058,131, 10–16–62, Cl. 12—53.5.
Schultz, Harold B., to The Bendix Corp. Accumulator charging valve. 3,023,997, 3–6–62, Cl. 251—28.
Schultz, Harold W.: *See*—
Rosenberger, Maurice S., Winchell, and Schultz. 3,016,119.
Rosenberger, Maurice S., Winchell, and Schultz. 3,063,530.
Schultz, Harry E., to General Electric Co. Controlled rectifier inverter circuit. 3,034,015, 5–8–62, Cl. 315—97.
Schultz, Henry J., to B. Walker. Engine analyzer. 3,048,034, 8–7–62, Cl. 73—116.
Schultz, Herbert C., to Raymond International Inc. Lining of pipes including multiple head lining machine. 3,069,093, 12–18–62, Cl. 239—215.
Schultz, Herman S., to General Aniline & Film Corp. Polymers of 2-p-dioxanone and method for making same. 3,063,967, 11–13–62, Cl. 260—78.3.
Schultz, Herman S., to General Aniline & Film Corp. Polymerization of 2-p-dioxanone. 3,063,968, 11–13–62, Cl. 260—78.3.
Schultz, John C.: *See*—
Rumsey, Rollin D., and Schultz. 3,038,561.
Schultz, Joseph F.: *See*—
Hollmann, Julius Z., and Schultz. 3,034,261.
Schultz, Louis W. Drill grinding structure. 3,067,550, 12–11–62, Cl. 51—219.
Schultz, Matthew J, and W. L., to Red Lake County State Bank. Tire mounting tool. 3,029,860, 4–17–62, Cl. 157—1.22.
Schultz, Moses R., to Knoll Associates, Inc. Sofa-bed construction. 3,025,534, 3–20–62, Cl. 5—17.
Schultz, Raymond J.: *See*—
Reinke, James J., Gustke, Schultz, and Thompson. 3,033,051.
Ruffle, Larry L., and Schultz. 3,043,607.
Schultz, Ralph W. Anchoring mechanism for automobile transport trailers. 3,053,508, 9–11–62, Cl. 254—164.
Schultz, Robert A., to United States Steel Corp. Adjustable-taper mold for continuous casting. 3,049,769, 8–21–62, Cl. 22—145.
Schultz, Robert D., and C. L. Randolph, Jr., to Aerojet-General Corp. Preparation of diborane. 3,020,127, 2–6–62, Cl. 23—204.
Schultz, Robert D., and C. L. Randolph, Jr., to Aerojet-General Corp. Method for the preparation of diborane. 3,069,236, 12–18–62, Cl. 23—204.
Schultz, Robert D., and C. L. Randolph, Jr., to Aerojet-General Corp. Method for the preparation of diborane. 3,069,237, 12–18–62, Cl. 23—204.
Schultz, Robert T., and J. F. Sullivan, to International Telephone and Telegraph Corp. Trigger circuit. 3,015,736, 1–2–62, Cl. 307—88.5.
Schultz, Rudolf, to Deutsche Angelgerate Manufaktur D.A.M. Hellmuth Kuntze. Fishing reel with spool transversing mechanism. 3,055,607, 9–25–62, Cl. 242—84.21.
Schultz, Rudolph H., and A. J. Siebert, deceased (B. E. Siebert, executrix), to Schultz Sales Corp. Shearing apparatus having rotary bearing means to predetermine the amount of overlap of rotary blades. 3,068,731, 12–18–62, Cl. 83—305.
Schultz Sales Corp.: *See*—
Schultz, Rudolph H., and Siebert. 3,068,731.
Schultz, Warner W., to General Electric Co. Homogeneity measurement. 3,025,400, 3–13–62, Cl. 250—83.3.
Schultz, Wilburn E., to Shell Oil Co. Method and apparatus for controlling hole direction and inclination. 3,062,303, 11–6–62, Cl. 175—61.
Schultz, William H.: *See*—
Link, Harold S., and Schultz. 3,017,689.
Schultz, William H., to United States Steel Corp. Tuyere with preformed refractory nose and sleeve. 3,061,300, 10–30–62, Cl. 266—41.
Schultz, William H., to United States Steel Corp. Ceramic coated tuyeres or the like. 3,069,760, 12–25–62, Cl. 29—195.
Schultz, William L.: *See*—
Schultz, Matthew J. and W. L. 3,029,860.
Schultze, Frederick K.: *See*—
MacIntyre, David R., and Schultze. 3,020,023.
Schultze, Georg R.: *See*—
Boberg, Friedrich, and Schultze. 3,062,833.
Schultze, George R., and J. F. G. Fuhrmann. Process for testing oils. 3,025,698, 3–20–62, Cl. 73—53.
Schultze, Harold E., to General Motors Corp. Hydraulic shock absorber with compression cut-off. 3,036,669, 5–29–62, Cl. 188—88.
Schultze, Harold E., to General Motors Corp. Hydraulic lock-out control system. 3,040,841, 6–26–62, Cl. 188—88.
Schultze, Harold E., to General Motors Corp. Combination shock absorber and air spring. 3,046,001, 7–24–62, Cl. 267—64.
Schultze, Kurt H., to Herbert Lindner, G.m.b.H. Feed control and indicating mechanism for a grinding machine. 3,027,691, 4–3–62, Cl. 51—165.
Schultze, Kurt H., to Herbert Lindner, G.m.b.H. Setting device of a thread grinding machine. 3,030,741, 4–24–62, Cl. 51—165.
Schultz-Grunow, Fritz C. Device for separating ingredients of fluid mixtures. 3,052,357, 9–4–62, Cl. 210—176.
Schulz, Albert E., to General Electric Co. Evaporative cooler pad holder. 3,034,772, 5–15–62, Cl. 261—94.
Schulz, David G.: *See*—
Guderian, Walter L., Kanda, Schulz, and Spencer. 3,035,229.
Schulz, Eugene A.: *See*—
Campbell, Robert S., and Schulz. 3,028,711.
Schulz, George W.: *See*—
English, Herdis G., and Schulz. 3,049,028.
Schulz, George W., to Ford Motor Co. Compound governor. 3,032,049, 5–1–62, Cl. 137—56.
Schulz, George W., to Ford Motor Co. Hydraulic pressure governor. 3,043,322, 7–10–62, Cl. 137—54.
Schulz, Gordon R., to Consolidated Electrodynamics Corp. Tape recorder capstan drive. 3,040,593, 6–26–62, Cl. 74—209.
Schulz, Günther, to Joh. A. Benckiser, G.m.b.H. Chemische Fabrik. Method for the removal of small quantities of strong electrolytes from solutions of weak electrolytes. 3,030,287, 4–17–62, Cl. 204—151.
Schulz, Hans O. Multiple turntable structure. 3,045,508, 7–24–62, Cl. 74—665.
Schulz, Helmut W.: *See*—
Rose, Julian K., and Schulz. 3,025,323.
Schulz, Herman R., to Royal McBee Corp. Fault sensing apparatus. 3,017,978, 1–23–62, Cl. 197—17.
Schulz, Johann G. D.: *See*—
Kollar, John, and Schulz. 3,060,236.
Schulz, Paul D.: *See*—
Sear, Arthur W., Schulz, and White. 3,022,395.
Schulz, Richard, to Allmänna Svenska Elektriska Aktiebolaget. High tension air blast circuit breakers with a plurality of series connected breaking gaps per pole. 3,018,352, 1–23–62, Cl. 200—148.
Schulz, Robert E.: *See*—
Loewe, Siegmund, and Schulz. 3,018,063.
Schulz, Rolf: *See*—
Kern, Werner, Schulz, and Cherdron. 3,036,978.
Schulz Tool and Mfg. Co.: *See*—
Mosher, James K. 3,067,972.
Schulz, Walter A., to Koppers Co., Inc. Printer-slotter blank feeder. 3,038,720, 6–12–62, Cl. 271—44.
Schulz, Walter E. Explosively actuated driving tool. 3,047,873, 8–7–62, Cl. 1—106.
Schulz, Werner, to Ace Tool & Mfg. Co. Container carrier. 3,034,673, 5–15–62, Cl. 214—384.
Schulz, William L.: *See*—
Conlin, Peter, and Schulz. 3,020,385.
Schulze, Gustav: *See*—
Dutschmann, Max, and Schulze. 3,035,391.
Schulze, Heinz, to Kamera- und Kinowerke Dresden, VEB. Mirror reflex camera with exposure meter. 3,049,983, 8–21–62, Cl. 95—64.
Schulze, Herbert P.: *See*—
Hohl, Carl E., and Schulze. 3,059,979.
Schulze, Hermann P., and A. J. Wild. Packer grid. 3,031,820, 5–1–62, Cl. 53—247.
Schulze, Joachim, to Buchungsmaschinenwerk Karl-Marx-Stadt, VEB. Electronic multiplying arrangement in combination with a mechanically actuated bookkeeping machine. 3,034,721, 5–15–62, Cl. 235—160.
Schulze, Klaus-Jürgen, and O. Kubatschka, to VEB Schleppervverk Nordhausen. Control devices for adjustable driving mounts. 3,021,720, 2–20–62, Cl. 74—481.
Schulze, Robert E., R. J. Jauch, and C. W. Kruckeberg, to Culligan, Inc. Chemical feed pump. 3,036,525, 5–29–62, Cl. 103—38.
Schulze, Robert E., R. J. Jauch, and C. W. Kruckeberg, to Culligan, Inc. Time control and metering system. 3,053,268, 9–11–62, Cl. 137—192.
Schulze, Vernon R.: *See*—
Brady, Thomas J., and Schulze. 3,069,718.
Schulze, Werner, to Auto-Union G.m.b.H. Inner door handle for automobiles. 3,038,757, 6–12–62, Cl. 296—44.
Schuma, Richard F., to Bausch & Lomb Inc. Variable magnification optical systems. 3,057,259, 10–9–62, Cl. 88—57.
Schumacher, Bernard P. Bottle cap removing and recapping device. 3,038,178, 6–12–62, Cl. 7—14.6.

Schumacher, Bernard P., R. A. Feiler, J. K. Kubisiak, and R. Thomas. Stamp dispenser. 3,033,738, 5–8–62, Cl. 156—530.

Schumacher, Edward B.: *See*—
Wiedemann, John S., and Schumacher. 3,031,856.

Schumacher, Ernst J., to J. R. Geigy A.-G. Method for the concentration and separation of metals. 3,042,597, 7–3–62, Cl. 204—180.

Schumacher, Frederick G.: *See*—
Hendrixson, Philip R., and Schumacher. 3,015,576.

Schumacher, Frederick G., to E. I. du Pont de Nemours and Co. Metal cleaning process. 3,021,235, 2–13–62, Cl. 134—26.

Schumacher, Guy F., to The A. C. Gilbert Co. Scenic tiles for miniature railroad. 3,025,626, 3–20–62, Cl. 41—23.

Schumacher, Josef. Containers for storing needles or the like. 3,024,898. 3–13–62. Cl. 206—1.

Schumacher, Joseph N., W. M. Henley, E. Bernasek, and C. E. Teague, Jr., to R. J. Reynolds Tobacco Co. Two stage oxidation of Sclareol. 3,050,532, 8–21–62, Cl. 260—343.3.

Schumacher, Wilhelm W. B., to Ontario Research Foundation. X-ray spectrometer. 3,051,833, 8–28–62, Cl. 250—51.5.

Schumag Schumacher Metallwerke Gesellschaft mit beschrankter Haftung: *See*—
Bock, Erwin. 3,044,336.

Schumaier, Irwin J., to Century Electric Co. Dynamo electric machines. Re. 25,244, 9–25–62, Cl. 310—202.

Schuman, Seymour C., to Hydrocarbon Research, Inc. Two-stage conversion of heavy oils. 3,050,459, 8–21–62, Cl. 208—97.

Schumann, Edward L.: *See*—
Allen, Robert E., Andrews, Schumann, and Tilford. 3,031,449.

Schumar, James F.: *See*—
Kittel, John H., and Schumar. 3,067,116.

Schündehütte, Karl-Heinz, K.-H. Schmidt, F. Suckfull, and H. Nickel, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of ortho-quinones of the naphthalene series. 3,024,255, 3–6–62, Cl. 260—396.

Schunk & Ebe G.m.b.H.: *See*—
Gutberlet, Theodor. 3,049,637.

Schunke, Edwin C., to General Motors Corp. Multiple thermocouple. 3,053,922, 9–11–62, Cl. 136—4.

Schupan, Fred A.: *See*—
Alexander, Raymond, Schupan, and Abbott. 3,029,675.

Schuppon, Charles R. M., to Societe des Usines Chimiques Rhone-Poulenc. Compositions for the nutrition of animals. 3,039,874, 6–19–62, Cl. 99—2.

Schur, Milton O., to Olin Mathieson Chemical Corp. Pin studded punch roll including method of fabrication. 3,021,732, 2–20–62, Cl. 76—101.

Schur, Milton O., to Olin Mathieson Chemical Corp. Process for making cigarette paper and resulting paper. 3,044,924, 7–17–62. Cl. 162—139.

Schur, Milton O., to Olin Mathieson Chemical Corp. Ventilated cigarette. 3,046,994, 7–31–62, Cl. 131—10.

Schurb, Joseph N., to Minnesota Mining & Mfg. Co. Stable heat-curing epoxy resin compositions. 3,030,247, 4–17–62, Cl. 154—43.

Schure, Alexander, to Educational Aids Publishing Corp. Compromise proof teaching device. 3,046,675, 7–31–62, Cl. 35—9.

Schurecht, Harry G., to Champion Spark Plug Co. Electrically semi-conducting ceramic body. 3,037,140, 5–29–62, Cl. 313—131.

Schurecht, Harry G., to Champion Spark Plug Co. Spark plugs and methods of producing same. 3,046,328, 7–24–62, Cl. 174—152.

Schurecht, Harry G., to Champion Spark Plug Co. Electrically semi-conducting engobe coating. 3,046,434, 7–24–62, Cl. 313—131.

Schurger, Garner H., to Giddings & Lewis Machine Tool Co. Right angle milling attachment. 3,037,429, 6–5–62, Cl. 90—16.

Schurger, Garner H., and H. W. De Pree, to Giddings & Lewis Machine Tool Co. Machine tool. 3,041,940, 7–3–62, Cl. 90—14.

Schurich, Herbert. Flat hand knitting machine with a detachable auxiliary needle bed. 3,018,644, 1–30–62, Cl. 66—64.

Schurich, Herbert, to Karl Steinhof Apparatefabrik. Automatically operating counting mechanism, more particularly for counting rows of stitches on hand knitting machines. 3,021,061, 2–13–62, Cl. 235—91.

Schürich, Herbert, to Karl Steinhof, Apparatefabrik. Hand flat knitting machines. 3,025,687, 3–20–62, Cl. 66—60.

Schurich, Herbert, to K. Steinhof, d.b.a. Karl Steinhof Apparatefabrik. Assembly cam for hand knitting machines. 3,063,270, 11–13–62, Cl. 66—78.

Schürmann, Fritz. Combined sowing machine for individual grain seed and thinning-out machine. 3,066,622, 12–4–62, Cl. 111—65.

Schurr, Charles A., to Square D Co. Signal device. 3,047,788, 7–31–62, Cl. 88—28.

Schurr, Hans, and H. Stahlecker, to Wurttembergische Spindelfabrik G.m.b.H. Spindle driving mechanism. Re. 25,192, 6–26–62, Cl. 57—105.

Schurr, Hans, and W. Stahlecker. Spinning and twisting machines. 3,054,250, 9–18–62, Cl. 57—104.

Schurr, Paul E., to The Upjohn Co. Motion labile liquid package. 3,049,226, 8–14–62, Cl. 206—46.

621173—P——59

Schussler, Gerhard: *See*—
Hippe, Richard, and Schussler. 3,059,408.

Schussler, Gerhard, to Zwirnerei Ackermann Werk der Ackermann-Goggingen A.G. Apparatus for interrupting rotation of rotatable driven elements. 3,059,409, 10–23–62, Cl. 57—77.45.

Schussler, Richard: *See*—
Roucavrol, Jean-Claude, Oberhausen, and Schussler. 3,017,510.

Schuster, Curt: *See*—
Eisele, Julius, Federkiel, Schuster, Gehm, Tartter, Graser, Rohland, and Stoeckl. 3,037,030.

Schuster, Edwin C.: *See*—
Erickson, Bruce G., Metcalf, and Schuster. 3,016,690.

Schuster, Ervin N. Bathing chair. 3,036,316, 5–29–62, Cl. 9—347.

Schuster, Frank C., to Allis-Chalmers Mfg. Co. Fork position locking device. 3,027,033, 3–27–62, Cl. 214—731.

Schuster, Harold W. Article pan holding rack. 3,069,019, 12–18–62. Cl. 211—73.

Schuster, Janos. Conveyor clearing device. 3,048,257, 8–7–62, Cl. 198—20.

Schuster, Karl: *See*—
Rudy, Hermann, and Schuster. 3,055,726.

Schuster, Karl, and A. Gettinger, to Akustische U. Kino-Gerate Gesellschaft m.b.H. Headphone comprising a resilient strap. 3,031,539, 4–24–62. Cl. 179—156.

Schuster, Ludwig K., and A. L. Baldi, Jr., to Pennsalt Chemicals Corp. Corrosion resistant coated steel members, and method of making same. 3,031,333, 4–24–62, Cl. 117—50.

Schuster, Ludwig K., and A. L. Baldi, Jr., to Pennsalt Chemicals Corp. Method of coating metal surface with hexavalent chromium compound and non-waxy hydrophobic resin. 3,053,693, 9–11–62, Cl. 117—75.

Schuster, Ludwig K., and A. L. Baldi, Jr., to Pennsalt Chemicals Corp. Metal coating. 3,053,702, 9–11–62, Cl. 148—6.2.

Schuster, Nick A., to Schlumberger Well Surveying Corp. Apparatus for investigating earth formations. 3,017,566, 1–16–62, Cl. 324—1.

Schuster, Nick A., to Schlumberger Well Surveying Corp. Feedback amplifying systems. 3,034,041, 5–8–62, Cl. 324—1.

Schuster, Nick A., to Schlumberger Well Surveying Corp. Magnetic resonance methods and apparatus. 3,052,834, 9–4–62, Cl. 324—5.

Schuster, Nick A., to Schlumberger Well Surveying Corp. Induction well logging. 3,067,382, 12–4–62, Cl. 324—6.

Schuster, Roman. Plug socket with plug. 3,051,800, 8–28–62, Cl. 200—51.

Schuster, Roman. Feeding attachment for woodworking machines. 3,058,640, 10–16–62, Cl. 226—108.

Schut, Robert N.: *See*—
Fancher, Otis E., and Schut. 3,029,241.

Schut, Robert N., to Miles Laboratories, Inc. Certain tetrahydro-*p*-carbolines. 3,029,247, 4–10–62, Cl. 260—296.

Schute, Frank: *See*—
November, Gerald S., and Schute. 3,021,708.

Schutmaat, Wayne H. Vehicle protective port. 3,060,520, 10–30–62, Cl. 20—1.13.

Schutmaat, Wayne H., to Penn Controls, Inc. Adjusting device for pressure regulator valve. 3,062,525, 11–6–62, Cl. 267—1.

Schutmaat, Wayne H., and W. V. Reyden, to Penn Controls, Inc. Pressure regulating valve. 3,066,694, 12–4–62, Cl. 137—505.36.

Schutt, Ellroy F.: *See*—
Hoag, John K., and Schutt. 3,016,223.

Schütt, Hartwig: *See*—
Stein, Werner, Schirp, and Schütt. 3,023,217.

Schütt, Hartwig, to Henkel & Cie. G.m.b.H. Production of carboxy-substituted heterocyclic compounds. 3,023,210, 2–27–62, Cl. 260—250.

Schütt, Hartwig, and W. Stein, to Henkel & Cie. G.m.b.H. Process for the production of aromatic di- and polycarboxylic acids. 3,023,234, 2–27–62, Cl. 260—515.

Schutt, Lester E., to Dura Corp. Operator for convertible tops. 3,016,919, 1–16–62, Cl. 137—621.

Schutt, Norman C., F. W. Flynn, and J. L. Bjelland, to Powers Chemco, Inc. Apparatus for handling a contact screen in a photomechanical camera. 3,068,748, 12–18–62, Cl. 88—24.

Schutte, Alfred H.: *See*—
Hachenberg, Edmund. 3,034,300.

Schutte, Charles E., to Willys Motors, Inc. Vehicle windshield assembly. 3,026,140, 3–20–62, Cl. 296—84.

Schutte, Otto: *See*—
Paule, Kurt, Knapp, Zechnall, and Schutte. 3,051,152.

Schutte and Koerting Co.: *See*—
Harris, Le Roy S. 3,034,771.

Schuttenberg, Elmer H. Inspection marking device. 3,022,726, 2–27–62, Cl. 101—42.

Schutter, George M., and R. G. Young, Jr., to Scully Signal Co. Means for protecting valve handles. 3,042,069, 7–3–62, Cl. 137—382.

Schuttle, Charles E., to Willys Motors, Inc. Combination joint cover and ceiling fastening member for vehicles. 3,065,022, 11–20–62, Cl. 296—13.7.

Schutz, Alfred J.: *See*—
Kosco, John C., and Schutz. 3,068,557.

Schutz, Emil R. Apparatus for removing skin particles from a donor area and applying the particles to a recipient area. 3,037,509, 6–5–62, Cl. 128—305.
Schutz, Erwin, to Kammgarnspinnerei Kaiserslautern. Apparatus for processing textile fibers. 3,019,490, 2–6–62, Cl. 19—160.
Schutz, Harold R.: *See*—
Augsburger, Herbert M., and Schutz, 3,039,231.
Schutz, Howard W., and D. E. Gilbert, to Phillips Petroleum Co. Removal of scale from oil field equipment and the like. 3,032,446, 5–1–62, Cl. 134—41.
Schutz, Karl H., to Jos. Schneider & Co., Optische Werke. Exposure-control system for photographic or cinematographic objectives. 3,054,336, 9–18–62, Cl. 95—10.
Schutze, Henry G.: *See*—
Leibson, Irving, and Schutze, 3,037,011.
Schutze, Henry G., I. Leibson, and D. E. Bown, to Esso Research and Engineering Co. Slurry resolution. 3,020,-268, 2–6–62, Cl. 260—93.7.
Schuyler, Fred B. Bow bumper for tugs and similar boats. 3,062,399, 11–13–62, Cl. 114—219.
Schuyler, James F.: *See*—
Kraus, Karl J. 3,050,443.
Schwab, Alvin R., to United States Steel Corp. Method of making a prestressed reinforced concrete structure. 3,041,-702, 7–3–62, Cl. 25—154.
Schwab, Arthur W., and H. M. Teeter, to United States of America, Agriculture. Fast surface-dry oil emulsion paint. 3,047,413, 7–31–62, Cl. 106—170.
Schwab, Fredric P.: *See*—
Stephens, Charles D. 3,047,974.
Schwab, Helmut, T. O. Anderson, and S. E. Beale, to Applied Development Corp. Printed circuit board file. 3,017,232, 1–16–62, Cl. 312—223.
Schwab, Louis. Electrostatic gas filters. 3,040,497, 6–26–62, Cl. 55—112.
Schwab, Richard: *See*—
Kaufer, Helmut, Deeg, and Schwab. 3,064,795.
Schwab, Robert: *See*—
Persicke, Herbert, Schwab, and Schilling. 3,026,544.
Schwab & Udell, Inc.: *See*—
Schwab, William. 3,023,540.
Schwab, William, to Schwab & Udell, Inc. Fly swatters. 3,023,540, 3–6–62, Cl. 43—137.
Schwab, William G., to The Electron-Machine Corp. Automatic control of multi-stand rolling mills. 3,036,480, 5–29–62, Cl. 80—35.
Schwab, William R.: *See*—
Cusick, Charles S., Schwab, and Lange. 3,041,798.
Schwabe, Herman. Lasting machine for shoe manufacture. 3,032,790, 5–8–62, Cl. 12—7.1.
Schwabie, Wilfrid A. Accessory for portable drills. 3,046,-817, 7–31–62, Cl. 77—7.
Schwaiger, Frank H., R. C. Gadsby, and J. Schwaiger, to Anheuser-Busch, Inc. Straining tank. 3,033,762, 5–8–62, Cl. 195—135.
Schwaiger, Joseph: *See*—
Schwaiger, Frank H., Gadsby, and Schwaiger. 3,033,-762.
Schwalm, Glendon H.: *See*—
Ullman, Robert, Fortna, Middleton, Schwalm, and Tritt. 3,023,415.
Ullman, Robert, Fortna, Middleton, Schwalm, and Tritt. 3,066,626.
Schwam, Glendon H., and R. Ullman, to AMP Inc. Lead making machine. 3,019,679, 2–6–62, Cl. 81—951.
Schwalm, Glendon H., R. Ullman, and E. W. Wagner, to AMP Inc. Wire handling apparatus. 3,062,390, 11–6–62, Cl. 214—6.
Schwan, Judith A., and P. P. Chiesa, to Eastman Kodak Co. Developers for color photography containing sulfite ester polymers. 3,068,097, 12–11–62, Cl. 96—22.
Schwander, Erwin, to Societe d'Etude de Vehicules "S.E.V." Oil-burner. 3,033,270, 5–8–62, Cl. 158—1.5.
Schwander, Erwin, to Societe d'Etude de Vehicules "S.E.V." Air-feeding device for oil-burners. 3,033,271, 5–8–62, Cl. 158—1.5.
Schwander, Erwin, to Societe d'Etude de Vehicules S.E.V. Arrangement for injecting water into a boiler operating under forced circulation conditions. 3,064,631, 11–20–62, Cl. 122—451.
Schwandes, Elmer A., and E. J. Stramowski, to McGraw-Edison Co. Hydraulic timing device. 3,052,779, 9–4–62, Cl. 200—97.
Schwanekamp, Karl W.: *See*—
Madsen, Carl J., and Schwanekamp. 3,030,809.
Schwaneke, Alfred E.: *See*—
Malz, Leo, and Schwaneke. 3,022,720.
Schwaneke, Fred C., to Dormeyer Corp. Thermostat for skillet. 3,025,384, 3–13–62, Cl. 219—44.
Schwaneke, Fred C., to Webcor, Inc. Coffee maker visual indicator. 3,049,922, 8–21–62, Cl. 73—323.
Schwanke, Walter G., and A. D. Pelzer. Snow plow attachment for rotary type lawnmowers. 3,029,533, 4–17–62, Cl. 37—43.
Schwarb Gustav: *See*—
Renz, Jany, Bourquin, Griot, Ruesch, and Schwarb. 3,055,903.
Renz, Jany, Bourquin, Griot, Schwarb, and Ruesch. 3,055,888.
Schwarckopf, Joseph G., and K. R. Humes, to Westinghouse Electric Corp. Low voltage tester. 3,040,249, 6–19–62, Cl. 324—54.
Schwarm, Edward G.: *See*—
Fogarty, Laurence E., and Schwarm. 3,028,090.
Schwarm, Edward G., to Link Aviation, Inc. Computation of mach number for a flight simulator operating in a non-standard atmosphere. 3,039,693, 6–19–62, Cl. 235—184.
Schwartmann, Karl, and M. Fischbach. Membrane pump. 3,066,611, 12–4–62, Cl. 103—53.
Schwartz, Abraham: *See*—
Ladenheim, Robert N., and Schwartz. 3,063,568.
Schwartz, Albert B., to Socony Mobil Oil Co., Inc. Method for preparing siliceous aerogels. 3,059,997, 10–23–62, Cl. 23—182.
Schwartz, Albert M., to Brown-Line Corp. Rivet pull gun. 3,042,245, 7–3–62, Cl. 218—42.
Schwartz, Alfred L., to The Art Award Co., Inc. Palette with paint container. 3,023,884, 3–6–62, Cl. 206—1.7.
Schwartz, Cyrus. Toe spreader. 3,062,206, 11–6–62, Cl. 128—81.
Schwartz, Daniel M.: *See*—
Hackett, Theodore N., Raven, and Schwartz. 3,034,821.
Henrickson, Donald E., Brown, Schwartz, and Utz. 3,030,713.
Schwartz, Daniel M., to The Elmco Corp. Filter valve construction. 3,015,397, 1–2–62, Cl. 210—395.
Schwartz, Daniel M., to The Elmco Corp. Material handling machine. 3,021,022, 2–13–62, Cl. 214—131.
Schwartz, Daniel M., to The Elmco Corp. Transmission. 3,042,169, 7–3–62, Cl. 192—113.
Schwartz, Daniel M., and T. N. Hackett, to The Elmco Corp. Material handling device. 3,034,820, 5–15–62, Cl. 294—88.
Schwartz, Daniel M., D. E. Hendrickson, and J. D. Brown, to The Elmco Corp. Material handling machine. 3,040,918, 6–26–62, Cl. 214—131.
Schwartz, Daniel M., and D. E. Hendrickson, to The Elmco Corp. Take-up mechanism. 3,055,489, 9–25–62, Cl. 198—208.
Schwartz, Daniel M., and E. M. Martin, to The Elmco Corp. Dual pressure fluid actuated clutch assembly. 3,064,781, 11–20–62, Cl. 192—87.
Schwartz, Daniel M., and T. N. Hackett, to The Elmco Corp. Pivot arm construction. 3,070,245, 12–25–62, Cl. 214—145.
Schwartz, Daniel S., to Sutton Industries, Inc. Accelerometer. 3,060,748, 10–30–62, Cl. 73—497.
Schwartz, Donald L., to General Electric Co. Process for producing high density refractory bodies. 3,051,566, 8–28–62, Cl. 75—213.
Schwartz, Ell: *See*—
Keech, Forrest E., Schwartz, Nicholas, and Baker. 3,059,894.
Schwartz, Elmer R. Combined approach plate and bumper apparatus for vehicle platform. 3,066,816, 12–4–62, Cl. 214—505.
Schwartz, Harold H., to Empire Brushes, Inc. Hand held snow and ice removal equipment. 3,051,975, 9–4–62, Cl. 15—105.
Schwartz, Harold O., to The Wurlitzer Co. Transistor tone generating system using transistorized keying means. 3,058,381, 10–16–62, Cl. 84—1.01.
Schwartz, Harold O., and C. L. Wolgast, to Wurlitzer Co. Electronic tremulant. 3,056,327, 10–2–62, Cl. 84—1.25.
Schwartz, Harry A., to The White Motor Co. Vehicle construction. 3,062,309, 11–6–62, Cl. 180—11.
Schwartz, Herbert S. Process for the manufacture of combustible refractory fibers. 3,028,214, 4–3–62, Cl. 18—54.
Schwartz, Ira: *See*—
List, Ralph W., and Schwartz. 3,027,619.
Schwartz, James W.: *See*—
Epstein, David W., Schwartz, and Edelman. 3,045,141.
Schwartz, James W., to Radio Corporation of America. Electron gun structure for cathode ray tube. 3,032,674, 5–1–62, Cl. 313—82.
Schwartz, James W., to Radio Corp. of America. Art of manufacturing cathode-ray tubes of the focus-mask variety. 3,070,441, 12–25–62, Cl. 96—35.
Schwartz, Jerome W., to Farwell, Ozum, Kirk and Co. Multi-purpose supporting bracket. 3,041,033, 6–26–62, Cl. 248—248.
Schwartz, Jerry H.: *See*—
Harms, Victor, and Schwartz. 3,047,840.
Schwartz, John M., to Bausch & Lomb Inc. Variable power optical system. 3,035,487, 5–22–62, Cl. 88—57.
Schwartz, John M., and G. F. Ziegler, to Bausch & Lomb Inc. Zoom type of variable magnification optical system for attachment to photographic objectives. 3,030,863, 4–24–62, Cl. 88—57.
Schwartz, Joseph, to Ipco Hospital Supply Corp. Arm rest for intravenous injections. 3,059,636, 10–23–62, Cl. 128—133.
Schwartz, L. M., & Sons, Inc.: *See*—
Schwartz, Sol. 3,029,529.
Schwartz, Lawrence, deceased, to Cue Fastener, Inc. Method of making slide fasteners. 3,038,207, 6–12–62, Cl. 18—48.
Schwartz, Leo M. Portable power saw. 3,026,917, 3–27–62, Cl. 143—6.
Schwartz, Leonard W., to Schwartz Metal Co., Inc. Connector. 3,062,570, 11–6–62, Cl. 287—54.
Schwartz, Leonard W., to Schwartz Metal Co., Inc. Structural assembly. 3,068,029, 12–11–62, Cl. 287—54.
Schwartz, Mack. Rain boot. 3,034,231, 5–15–62, Cl. 36—7.2.
Schwartz, Marcus, to S. & S. Industries, Inc. Garment supporting elements. 3,067,750, 12–11–62, Cl. 128—476.

Schwartz Metal Co., Inc. : *See—*
Schwartz, Leonard W. 3,062,570.
Schwartz, Leonard W. 3,068,029.
Schwartz, Milton, to Advance Food Service Equipment, Inc. Adjustable leg for tables and the like. 3,041,777, 7–3–62, Cl. 45—139.
Schwartz, Morris, and W. Castedello, to The Kalart Co. Inc. Sound projector. 3,033,077, 5–8–62, Cl. 88—28.
Schwartz, Morris, and A. V. Tantillo, to General Bathroom Products Corp. Bathroom cabinet. 3,038,771, 6–12–62, Cl. 312—223.
Schwartz, Morris, and E. K. Kaprelian, to The Kalart Co., Inc. Strip film for picture and sound reproduction. 3,046,836, 7–31–62, Cl. 318—461.
Schwartz, Morris A. : *See—*
Berryman, William L., and Schwartz. 3,056,493.
Schwartz, Morris A., to Johnson & Johnson. Package and method of making same. 3,070,225, 12–25–62, Cl. 206—56.
Schwartz, Morris A., and R. J. Schaefer, to Johnson & Johnson. Machine suitable for packaging and like functions. 3,022,-618, 2–27–62, Cl. 53—59.
Schwartz, Nathan R., to Swivelier Co., Inc. Strain relief washer. 3,020,331, 2–6–62, Cl. 174—62.
Schwartz, Nathan R., to Swivelier Co., Inc. Full turn swivel unit for electrical fixtures. 3,022,096, 2–20–62, Cl. 285—164.
Schwartz, Norman J., to Heinemann Electric Co. Circuit breaker and latch structure. 3,016,435, 1–9–62, Cl. 200—94.
Schwartz, Norman J., to Heinemann Electric Co. Circuit breaker. 3,056,008, 9–25–62, Cl. 200—107.
Schwartz, Otto, and R. Schnurch, to Therachemie Chemisch Therapeutische Gesellschaft m.b.H. Process for the production of triazine-perhydrate compounds. 3,055,897, 9–25–62, Cl. 260—249.6.
Schwartz, Paul C. : *See—*
Graff, Harry J., Kleinfelder, and Schwartz. 3,064,072.
Schwartz, Robert : *See—*
Comerci, Frank A., Schwartz, and Wilpon. 3,046,358.
Schwartz, Robert A. D. Louvre and hanger therefor. 3,017,-973, 1–23–62, Cl. 189—88.
Schwartz, Robert C., and E. E. Moss, Sr., to Botany Industries, Inc. Grid structure for seed cotton cleaners and the like. 3,049,763, 8–21–62, Cl. 19—93.
Schwartz, Robert E. : *See—*
Gold, Robert L., and Schwartz. 3,028,935.
Gold, Robert L., and Schwartz. 3,044,582.
Schwartz, Robert E., to Wagner Electric Corp. Application valve. 3,031,235, 4–24–62, Cl. 303—54.
Schwartz, Robert E., to Wagner Electric Corp. Friction device. 3,047,103, 7–31–62, Cl. 188—264.
Schwartz, Robert E., to Wagner Electric Corp. Friction device. 3,047,105, 7–31–62, Cl. 188—264.
Schwartz, Robert E., R. P. Stahl, and E. J. Falk, to Wagner Electric Corp. Power hydraulic brake device and system. 3,044,265, 7–17–62, Cl. 60—52.
Schwartz, Robert E., R. P. Stahl, and E. J. Falk, to Wagner Electric Corp. Power hydraulic brake device. 3,050,944, 8–28–62, Cl. 60—54.6.
Schwartz, Robert S., to International Business Machines Corp. Apparatus for applying liquid alloys. 3,034,478, 5–15–62, Cl. 118—263.
Schwartz, Robert S., and M. Genser, to International Business Machines Corp. Absorption edge light valve indicator system. 3,025,763, 3–20–62, Cl. 88—61.
Schwartz, Samuel. Garment holding and inspecting device. 3,023,940, 3–6–62, Cl. 223–39.
Schwartz, Samuel A., to Lockheed Aircraft Corp. Television synchronizing system. 3,020,340, 2–6–62, Cl. 178—6.
Schwartz, Samuel A., to Lockheed Aircraft Corp. Sawtooth wave generator. 3,043,992, 7–10–62. Cl. 317—145.
Schwartz, Sandor. Clip on apron. 3,045,244, 7–24–62, Cl. 2—52.
Schwartz Sidney, to Bantam Lite, Inc. Hand puppet with fingertip controlled illuminable nose. 3,034,258, 5–15–62, Cl. 46—228.
Schwartz, Sol. Packing means for pile fabrics. Re. 25,234, 9–4–62, Cl. 206—51.
Schwartz, Sol, to L. N. Schwartz & Sons, Inc. Shoe soles for baseball and like athletic shoes. 3,029,529, 4–17–62, Cl. 36—2.5.
Schwartzberg, Jack. Combination folding door and guide means therefor. 3,066 730, 12–4–62, Cl. 160—206.
Schwartzwalder, Karl : *See—*
Edwards, William R., and Schwartzwalder. 3.052,814.
Schwartzwalder, Karl, to General Motors Corp. Heat-sensing device with protective sheath. 3,057,941, 10–9–62, Cl. 136—4.
Schwarz, Adolf : *See—*
Baumeister, Wilhelm, Gaeth, Haarer, and Schwarz. 3,044,970.
Schwarz, Alfred, and E. L. McCarthy, to The Perkin-Elmer Corp. Image projection apparatus. 3,052,753, 9–4–62, Cl. 178—6.
Schwarz, Armand R. : *See—*
Cook, Charles B., Jr., and Schwarz. 3.034,918.
Schwarz, Bertram A., to General Motors Corp. Radio sensitivity control. 3,020,405, 2–6–62, Cl. 250—20.
Schwarz, Bertram A., to General Motors Corp. Disk record enclosure. 3,062,552, 11–6–62, Cl. 274—1.
Schwarz, Charles A. Spring operated door closer. 3,045,276, 7–24–62, Cl. 16—79.
Schwarz, Emil A., M. G. Kern, and J. B. Haselhorst, to Crunden Martin Mfg. Co. Spaced wall container. 3,038,-623, 6–12–62, Cl. 213—13.
Schwarz, Eugene W. K. : *See—*
Rynkiewicz, Henry J., Schwarz, and Skeist. 3,063,787.
Schwarz, Friedrich W. : *See—*
McCarty, Lourdes V., and Schwarz. 3,057,990.
Schwarz, Gerhard, and K. Naumann. Method and apparatus for producing spherical ion-exchange resins. 3,069,366, 12–18–62, Cl. 260—2.1.
Schwarz, Helmut J., to Radio Corp. of America. Vaporization rate measuring apparatus. 3,050,981, 8–28–62, Cl. 73—15.
Schwarz, Helmut J., to United Aircraft Corp. Method of making electrical conductor device. 3,056,881, 10–2–62, Cl. 219—50.
Schwarz, John S. P. : *See—*
Matuszak, Alfred H., Metro, and Schwarz. 3,029,204.
Schwarz, Leonard H., and F. A. Remkiewicz, said Schwarz d.b.a. The Hedlen Co. Article handling apparatus. 3,069,035, 12–18–62, Cl. 214—309.
Schwarz, Meyer, to Sprague Electric Co. Transistors and method of making. 3,030,561, 4–17–62, Cl. 317—235.
Schwarz, Peter A. Gate closer. 3,039,134, 6–19–62, Cl. 16—72.
Schwarzaugl, Josef M., to Faber-Castell, A.W. Retractable ball-point pen. 3,051,131, 8–28–62, Cl. 21—42.03.
Schwarzaugl, Josef M., to Faber-Castell, A.W. Container for ball-point insert. 3,051,133, 8–28–62, Cl. 120—42.4.
Schwarzbach, Frederick, to United States of America, Navy. Photographic ortho projector. 3,020,799, 2–13–62, Cl. 88—24.
Schwarzberger, Arthur. Material clamps, 3,028,649, 4–10–62. Cl. 24—250.
Schwarzberger, Arthur. Work-handling apparatus for quilting machines. 3,044,426, 7–17–62, Cl. 112—117.
Schwarzberger, Arthur. Follower units for quilting machines. 3,046,921, 7–31–62, Cl. 112—118.
Schwarze, Ralph W., and R. J. Senger, to Develop-Amatic Engineering. Cable lacer. 3,057,648, 10–9–62, Cl. 289—17.
Schwarze, Werner, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Production of N-dialkyl and N-diaralkyl phosphorylhomocysteine thiolactones. 3,068,242, 12–11–62, Cl. 260—332.3.
Schwarzenbek, Eugene F., to The M. W. Kellogg Co. Isomerization process. 3,066,176, 11–27–62, Cl. 260—683.68.
Schwarzer, Carl G., and P. H. Williams, to Shell Oil Co. Polyepoxy ethers of polyhydric phenols and cured products obtained therefrom. 3,017,387, 1–16–62, Cl. 260—47.
Schwarzer, Carl G., and P. H. Williams, to Shell Oil Co. Epoxy-substituted polyhydric phenols. 3,062,840, 11–6–62, Cl. 260—348.
Schwarzkopf Development Corp. : *See—*
Kieffer, Richard, and Sedlatschek. 3,039,000.
Schwarzlander, Harry, to General Electric Laboratories, Inc. Electric meter. 3,064,192, 11–13–62, Cl. 324—118.
Schwarzmann, Matthias : *See—*
Hamprecht, Guenther, and Schwarzmann. 3,060,216.
Schwebel, Adolf, to Mabeg Maschinenbau G.m.b.H. Sheet separating and feeding device. 3,070,637, 12–25–62, Cl. 271—26.
Schwebel, Charles A. Clean-out structure for water heater. 3.043.467, 7–10–62, Cl. 220—14.
Schwechten, Heinz-Werner, and O. Bayer, to Bayer Aktiengesellschaft, Farbenfabriken. Process for the production of dyestuffs and dyestuff intermediates. 3,047,577, 7–31–62, Cl. 260—276.
Schweer, Herman, to Allis-Chalmers Mfg. Co. Compacting device. 3,029,723, 4–17–62, Cl. 99—237.
Schweer, Herman, to Allis-Chalmers Mfg. Co. Compacting device. 3,069,995, 12–25–62, Cl. 99—237.
Schweer, Max. Fuses, 3,046.373, 7–24–62, Cl. 200—121.
Schweickert, Hans, H. Gutsche, and R. Emeis, to Siemens-Schuckertwerke Aktiengesellschaft. Methods of producing substances of highest purity, particularly electric semiconductors. 3,030,189, 4–17–62. Cl. 23—223.5.
Schweiker, George C., and P. Robitschek, to Hooker Chemical Corp. Condensation elastomers containing fluorine. 3,016,360, 1–9–62, Cl. 260—40.
Schweiker, George C., and P. Robitschek, to Hooker Chemical Corp. Condensation elastomers from fluorine containing dicarboxylic compounds. 3,016,361, 1–9–62, Cl. 260—40.
Schweiter A.G., Maschinenfabrik : *See—*
Dietiker, Ernst. 3,037,716.
Schweiter, Walter. 3,026,054.
Schweiter, Walter. 3,042 462.
Zollinger, Walter. 3,022,021.
Schweiter, Walter, to Machinenfabrik Schweiter A.G. Yarn end locating attachment for an automatic winder. 3,026,-054, 3–20–62. Cl. 242—35.6.
Schweiter, Walter, to Maschinenfabrik Schweiter AG. Device for driving winding bobbins in automatic cross winders. 3,062,462, 11–6–62, Cl. 242—35.5.
Schweitzer, Carl E. : *See—*
Langsdorf, William P., Jr., MacDonald and Schweitzer. 3,017,389.
Lewis, Cameron D., MacDonald, and Schweitzer. 3,043,-803.

Schweitzer, Charles A., deceased; by G. M. Schweitzer, executrix. Apparatus for prefabricating coving. 3,066,725, 12–4–62, Cl. 156—588.
Schweitzer, Edmund O., Jr. Motion controlling and time indicating means. 3,059,411, 10–23–62, Cl. 5—24.
Schweitzer Electrostatic Co.: *See*—
Verba, Richard J., and Schweitzer. 3,057,558.
Schweitzer, Erich, and V. B. Brown, to Methode Electronics, Inc. Electric connector socket. 3,040,291, 6–19–62, Cl. 339—176.
Schweitzer, Frank J., Jr.: *See*—
Gibson, Wilfred C., and Schweitzer. 3,023,994.
Schweitzer, Gerhard, to R. Mangold (born Görler) and H. Görler, trading as Julius Karl Goerler, Transformatorenfabrik. Oscillator having voltage-sensitive tuning capacitor biased by oscillator grid self-bias and external signal. Re. 25,256, 10–9–62, Cl. 331—177.
Schweitzer, Gertrude M.: *See*—
Schweitzer, Charles A. 3,066,725.
Schweitzer, Gunther: *See*—
Hebel, Martin, and Schweitzer. 3,017,095.
Schweitzer, Howard V.: *See*—
Verba, Richard J., and Schweitzer. 3,057,558.
Schweitzer, Kurt H. Closure means for leg openings for use in baby seat assemblies. 3,015,493, 1–2–62, Cl. 280—33.99.
Schweitzer, Otto: *See*—
Bilder, Erich, Schweitzer, and Schwörzer. 3,030,170.
Behrends, Jurgen, Schweitzer, Kern, and Hopff. 3,020,264.
Schweitzer, Otto, to Deutsche Gold- und Silber-Scheideanstadt vormals Roessler. Process for the production of polymerizates of acroleins. 3,068,203, 12–11–62, Cl. 260—67.
Schweitzer, Otto, and J. Behrends, to Deutsche Gold- und Silber-scheideanstalt vormals Roessler. Process for the drying of gaseous formaldehyde. 3,051,755, 8–28–62, Cl. 260—606.
Schweitzer, Paul: *See*—
Fischle, Liselotte, Kulcke, Schweitzer, and Trapp. 3,067,413.
Schweitzer, Peter J., Division, Kimberly-Clark Corp.: *See*—
Schneider, Edmund C., Jr. 3,064,315.
Schweitzer, Roy C., and C. R. Anspach, to Thompson Ramo Wooldridge Inc. Oil tank assembly. 3,016,977, 1–16–62, Cl. 183—2.5.
Schweitzer, Walter G., Jr.: *See*—
Kessler, Karl G., and Schweitzer. 3,046,473.
Schweitzer, William H., and G. E. Crist, to Esso Research and Engineering Co. Marine loading dock. 3,059,664, 10–23–62, Cl. 137—356.
Schweitzer, William K., Jr., R. E. Lee, C. Jones, Sr., and J. L. Lang, to The Dow Chemical Co. Molding grade copolymers and process for preparing the same. 3,035,033, 5–15–62, Cl. 260—88.1.
Schweiz Gasapparatefabrik Solothurn: *See*—
Hönger, Guido. 3,021,893.
Schweizer, Ernst: *See* —
Ryffel, Kaspar, Rutishauser, and Schweizer. 3,047,541.
Schweizer, Paul E.: *See*—
Jordan, Homer G., Purgett, Restall, and Schweizer. 3,027,432.
Schweizer, Richard W.: *See*—
Fisher, Arthur L., Fountain, Schweizer, and Thomas. 3,036,143.
Schweizer, Walter H.: *See*—
Kugel, Fritz K., and Schweizer. 3,043,162.
Schweizerische Industrie-Gesellschaft: *See*—
Giraudi, Giorgio. 3,026,663.
Heinzer, Hans. 3,057,456.
Schweizerische Isola-Werke: *See*—
Mosimann, Hans, and Lutz. 3,058,948.
Schweizerische Lokomotiv- und Maschinenfabrik: *See*—
Müller, Theodor. 3,030,932.
Schweizerische Wagons-und Aufzugefabrik A.-G.: *See*—
Moser, Richard, Thalmann, and Baumann. 3,054,475.
Schweizerische Wagons- und Aufzugefabrik A.-G. Schlieren-Zurich: *See*—
Burckhardt, Christof, Moser, and Baumann. 3,048,818.
Moser, Richard, and Etter. 3,056,470.
Schibli, Marcel, and Leroux. 3,048,239.
Schwellenbach, Robert D. Self-leveling back hoe. 3,034,671, 5–15–62, Cl. 214—138.
Schwemer, Warren C.: *See*—
Carlson, Robert K., and Schwemer. 3,029,167.
Schwemmer, Martin: *See*—
Lauchenauer, Alfred, and Schwemmer. 3,044,891.
Schwend, Fred N.: *See*—
Oldenburg, Kenneth F., and Schwend. 3,048,253.
Oldenburg, Kenneth F., and Schwend. 3,051,376.
Schwend, Fred N., to Clary Corp. Read-out system. 3,017,-080, 1–16–62, Cl. 235—60.
Schwend, Fred N., to Clary Corp. Data translating and registering system. 3,028,080, 4–3–62, Cl. 235—61.6.
Schwender, Leonard D.: *See*—
Kerstetter, Donald R., and Schwender. 3,028,518.
McKeirnan, William R., and Schwender. 3,028,288.
Schwendt, Otto, and J. Meimberg, to Ri-Ri Werke A.G. Slide fastener. 3,047,922, 8–7–62, Cl. 24—205.1.
Schwenk, Erwin, and A. M. Gold, to The Worcester Foundation for Experimental Biology. Process for preparation of 3-amino-1,3,5(10)-estratrlene derivatives. 3,060,205, 10–23–62, Cl. 260—397.5.
Schwenker, John E., to Bell Telephone Laboratories, Inc. Transistor tree ring counter. 3,035,185, 5–15–62, Cl. 307—88.5.
Schwenzfeger, Edward E., to Bell Telephone Laboratories, Inc. Ferroelectric translator. 3,016,425, 1–9–62, Cl. 179—18.
Schwenzfeger, Edward E., to Bell Telephone Laboratories, Inc. Selection circuit. 3,019,293, 1–30–62, Cl. 178—26.
Schwerdhofer, Hans J.: *See*—
Dotter, Paul, and Schwerdhofer. 3,034,618.
Schwerdhöfer, Hans J., to Fichtel & Sachs A.G. Multiple speed hub. 3,057,227, 10–9–62, Cl. 74—750.
Schwerdle, Arthur, to Vineland Chemical Co. Pre-emergent crabgrass control. 3,030,199, 4–17–62, Cl. 71—2.7.
Schwerdle, Arthur, to Vineland Chemical Co. Substituted ammonium salts of arsonic acids and selective weed control. 3,056,821, 10–2–62, Cl. 260—442.
Schwerdle, Arthur, to Vineland Chemical Co. Method of controlling vegetation. 3,068,088, 12–11–62, Cl. 71—2.7.
Schwerdtfeger, Reinhard: *See*—
Kramer, Udo, Lehnartz, Schwerdtfeger, and Suchetzki. 3,052,286.
Schwerke, Robert E., to General Controls Co. Miniature snap switch. 3,033,953, 5–8–62, Cl. 200—67.
Schwerti, Edward: *See*—
Roth, Ernest J., Dale, and Schwerti. 3,034,455.
Schwerti, Edward, to Joe Lowe Corp. Doughnut aligning device. 3,061,072, 10–30–62, Cl. 198—34.
Schwertz, Frederick A., to The Haloid Co. Electrostatic alphanumerical printer with image transfer mechanism. 3,023,731, 3–6–62, Cl. 118—625.
Schwertz, Frederick A., to Xerox Corp. Electrostatic printing apparatus for forming multiple copies. 3,045,587, 7–24–62, Cl. 101—1.
Schwertz, Frederick A., to Xerox Corp. Two-color electrostatic printing apparatus. 3,045,644, 7–24–62, Cl. 118—637.
Schwertz, Frederick A., to Xerox Corp. Electrostatic techniques. 3,050 580, 3–21–62, Cl. 178—6.6.
Schwertz, Frederick A., to Xerox Corp. Electrostatic recording of information. 3,060,432, 10–23–62, Cl. 346—74.
Schwertz, Frederick A., to Xerox Corp. Electrostatic recording of information. 3,064,259, 11–13–62, Cl. 346—74.
Schwertz, Frederick A., to Xerox Corp. Process and apparatus for tesiprinting. 3,068,481, 12–11–62, Cl. 346—74.
Schweym, Erich: *See*—
Krieger, Hans, Schweym, and Geller. 3,037,239.
Schwick, Hans G.: *See*—
Von Pölnitz, Wolfgang, Schwick, and Bickhard. 3,063,-913.
Von Pölnitz, Wolfgang, Schwick, and Bickhard. 3,063,-914.
Schwieger, John T. Proportioning dispenser. 3,062,410, 11–6–62, Cl. 222—133.
Schwieger, Leander G.: *See*—
Bearden, Robert G., Kimball, Schneider, and Schwieger. 3,045,122.
Bearden, Robert G., and Leander G. 3,044,236.
Schwieter, Ulrich: *See*—
Isler, Otto, Ruegg, and Schwieter. 3,043,863.
Schwimmer, Paul W. Method of making identification cards with pictures. 3,067,659, 12–11–62, Cl. 95—1.1.
Schwing, Roger, to Garlock Inc. Cooled sealing assembly. 3 019,026, 1–30–62, Cl. 277—16.
Schwing, Roger, to Garlock Inc. Gasket ring. 3,054,620, 9–18–62, Cl. 277—225.
Schwing, Roger, to Garlock Inc. Sealing ring assembly. 3,066,942, 12–4–62, Cl. 277—62.
Schwing, Ronald F., to Beaumont Birch Co. Coal handling apparatus. 3,017,039, 1–16–62, Cl. 214—2.
Schwing, Russell L.: *See*—
Wells, Alton R., and Schwing. 3,033,958.
Schwing, Russell L., to Thermal Mfg. Co. Method of making electrically insulated heating units. 3,050,833, 8–28–62, Cl. 29—155.64.
Schwinger, Heinrich, to Fr. Hesser Maschinenfabrik-Aktiengesellschaft, Firma. Method and means for applying cement to the closure parts of filled bags. 3,035,938, 5–22–62, Cl. 117—44.
Schwinger, Heinrich, to Fr. Hesser Maschinenfabrik-Aktiengesellschaft, Firma. Endless conveyor mechanism for folding boxes in packaging machines. 3,067,863, 12–11–62, Cl. 198—210.
Schwinghamer, Robert J.: *See*—
Rasquin, John R., and Schwinghamer. 3,041,587.
Schwittek, Elmer W.: *See*—
Bettin, Roger R., Hahnel, Harrison, and Schwittek. 3,054,057.
Schwitzer Corp.: *See*—
McGavern, Sanford A., 3,048,649.
Muehlhausen, Robert J., 3,051,136.
Saunders, Fred S., 3,066,399.
Troyer, William J., 3,054,305.
Weir, Thomas J., 3,053,363.
Woollenweber, William E., Jr. 3,044,683.
Woollenweber, William E., Jr., Hardy, and Paul. 3,056,-634.
Schwoebel, Richard L.: *See*—
Church, David A., and Schwoebel. 3,040,565.
Schworzer, Ludwig-Karl: *See*—
Bader, Erich, Schweitzer, and Schworzer. 3,030,170.

Schwyn, Raymond E.: *See*—
Aurand, La Vern M., and Schwyn. 3,042,474.
Schwyzer, Robert, B. Iselin, and M. Feurer, to Ciba Corp. Method of preparing amides. 3,035,041, 5–15–62, Cl. 260—112.
Schwyzer, Robert, and B. Riniker, to Ciba Corp. Octapeptides. 3,040,017, 6–19–62, Cl. 260—112.
Schy, Stuart T.: *See*—
Gumpertz, Donald G., and Schy. 3,044,563.
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Schytil, Franz, L. Reh, P. Saccardo, and P. Dal Pozzo, to Metallgesellschaft Aktiengesellschaft and Sicedison S.p.A. Method of carrying out heat-consuming reactions. 3,057,680, 10–9–62, Cl. 23—88.
Sciacero, Rinaldo: *See*—
Sollenberger, Lester D., and Sciacero. 3,056,544.
Sciaky, Roberto: *See*—
Camerino, Bruno, Patelli, and Sciaky. 3,068,225.
Camerino, Bruno, Patelli, and Sciaky. 3,068,227.
Camerino, Bruno, Patelli, and Sciaky. 3,068,247.
Camerino, Bruno, Sciaky, and Sala. 3,068,248.
Scientific Design Co., Inc.: *See*—
Colton, John W. 3,024,082.
Colton, John W. 3,024,083.
Colton, John W. 3,038,315.
Davis, Robert S. 3,037,346.
Deprez, Andre C., and Colton. 3,031,515.
Feder, Jack B. 3,054,806.
Feder, Jack B., and Russell. 3,024,251.
Margiloff, Irwin B. 3,046,752.
Peterson, Oscar A. 3,034,869.
Saffer, Alfred. 3,053,854.
Saffer, Alfred, and Barker. 3,024,253.
Winnick, Charles N. 3,047,644.
Scientific Equipment Mfg. Corp.: *See*—
Nathanson, Herman S. 3,059,410.
Scientific Industries, Inc.: *See*—
Natelson, Samuel. 3,036,893.
Scindorff, Julius H.: *See*—
Gates, Beverly L., and Scindorff. 3,068,780.
Scinta, Anthony C.: *See*—
Deibel, Raymond A., and Scinta. 3,044,095.
Oishei, John R., Bitzer, and Scinta. 3,032,019.
Oishei, John R., and Scinta. 3,056,160.
Scinta, Anthony C., to Trico Products Corp. Windshield cleaner. 3,022,531, 2–27–62, Cl. 15—250.35.
Scinta, Anthony C., to Trico Products Corp. Windshield cleaning system. 3,035,298, 5–22–62, Cl. 15—250.42.
Scinta, Anthony C., to Trico Products Corp. Wiper arm. 3,047,900, 8–7–62, Cl. 15—250.21.
Scioloro, Joseph D. Holder for securing receptacles to the floor of a vehicle. 3,050,223, 8–21–62, Cl. 224—29.
Sciscione, Philip, to General Electric Co. High voltage disconnect switch. 3,047,685, 7–31–62, Cl. 200—48.
Scisson, Sidney E.: *See*—
Fenix, Gilbert J., and Scisson. 3,039,580.
Sciulli, Charles M.: *See*—
Agarwal, Jagdish C., Sciulli, and Stephenson. 3,062,640.
Sciuto, Alfred F. Automatic fire alarm energizing means. 3,046,536, 7–24–62, Cl. 340—227.
Scivally, Herschell R. Electric motor-propeller unit mounting and control means. 3,052,204, 9–4–62, Cl. 115—18.
Sclar, Nathan: *See*—
Waller, Milton M., and Sclar. 3,041,427.
Sclar, Nathan, to Nuclear Corp. of America. Self-powered semiconductor oscillators. 3,050,684, 8–21–62, Cl. 325—105.
Sclar, Nathan, to Nuclear Corp. of America. Infrared radiation amplifier. 3,062,959, 11–6–62, Cl. 250—83.3.
Sclar, Nathan, to Fairchild Camera and Instrument Corp. Single stage photomultiplier tube. 3,069,591, 12–18–62, Cl. 315—11.
Scoates, William D. Pitot tubes. 3,038,335, 6–12–62, Cl. 73—212.
Scofield, Donald H., to Insul-8-Corp. Electrical conductor. 3,033,916, 5–8–62, Cl. 174—117.
Scofield, Donald H., to Insul-8-Corp. Electrical conductor. 3,060,260, 10–23–62, Cl. 174—117.
Scofield, Donald W., to Philco Corp. Refrigeration apparatus. 3,037,358, 6–5–62, Cl. 62—3.
Scofield, Donald W., to Philco Corp. Fabric dryer with lint burning means. 3,061,942, 11–6–62, Cl. 34—82.
Scofield, Robert O., Sr., and L. C. Wolcott, to General Motors Corp. Engine throttle control apparatus. 3,058,555, 10–16–62, Cl. 192—3.
Scoggin, Baxter I., Jr., and W. E. Vaughan, to Cook Chemical Co. Sprayer head having improved sealing and discharging means. 3,064,865, 11–20–62, Cl. 222—321.
Scola, Daniel A., J. O. Smith, and R. J. Wineman, to United States of America, Atomic Energy Commission. Process for the catalytic treatment of polyphenyl hydrocarbons. 3,064,061, 11–13–62, Cl. 260—668.
Scoles, Graham J., and J. B. Lyall, to Associated Electrical Industries (Manchester) Ltd. Pen protective circuit utilizing paralleled inductor and resistor. 3,066,260, 11–27–62. Cl. 328—65.
Sconzo, Thomas G. Window frame assembly. 3,023,465, 3–6–62, Cl. 20—55.
Scope, Inc.: *See*—
Williams, Richard E., and Glass. 3,037,076.
Williams, Richard E., and Glass. 3,037,077.
Scopp, Howard A., to Plax Corp. Coating composition comprising an aqueous emulsion of vinylidene chloride and amine-aldehyde resin, method of coating polystyrene therewith, and article thus coated. 3,030,325, 4–17–62, Cl. 260—29.4.
Scott, Albert B., to The Central Pharmacal Co. Vaginal composition containing 9-aminoacridine undecylenate and n-myristoyl-3-hydroxybutylamine hydrochloride. 3,034,960, 5–15–62, Cl. 167—55.
Scott, Andrew C., to Acme Steel Co. Strap guide. 3,037,444, 6–5–62, Cl. 100—26.
Scott Aviation Corp.: *See*—
Benzel, Howard A. 3,051,170.
Miller, Arthur E. 3,037,501.
Miller, Arthur E. 3,064,854.
Saporito, Roy J. 3,032,462.
Scott, Benjamin B., to General Electric Co. Method and apparatus for continuously accreting molten material. 3,060,-056. 10–3–62. Cl. 117—51.
Scott, Bruce A., R. R. Oden, and D. J. Lawrence, to Aspen Boot, Ltd. Ski boot. 3,067,531, 12–11–62, Cl. 36—2.5.
Scott, Charles E., to Sun Oil Co. Olefin oxide polymerization catalysts. 3,016,394, 1–9–62, Cl. 260—639.
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Scott, Charles L., to Westinghouse Electric Corp. Starting circuit control for arc lamps. 3,036,240, 5–22–62, Cl. 315—174.
Scott, Cleveland E., and E. L. Allred, to Phillips Petroleum Co. Fast burning fuels. 3,068,640, 12–18–62, Cl. 60—35.4.
Scott, Dale K., and E. K. Mercer, to Southern States Inc. Coupling means. 3,028,991, 4–10–62, Cl. 220—23.4.
Scott, Don, and F. E. Hammer, to Fermco Laboratories, Inc. Deoxygenating method and product. 3,016,336, 1–9–62, Cl. 195—63.
Scott, Donald R.: *See*—
Hough, Fred O., and Scott. 3,023,154.
Hough, Fred O., and Scott. 3,065,153.
Schmid, Leonard J., and Scott. 3,021,579.
Scott, Edwin C., to Chris Turner & Scott Pty. Ltd. Louver windows. 3,060,528, 10–30–62, Cl. 20—62.
Scott, Edwin M., Jr. Explosive composition. 3,061,488, 10–30–62, Cl. 149—5.
Scott Engineering (Bournemouth) Ltd.: *See*—
Norledge, Ronald F. 3,044,319.
Scott, Ernest K. and M. L., to Accurate Steel Rule Die Manufacturers. Method of making steel rule cuting dies. 3,036,478, 5–29–62, Cl. 76—107.
Scott & Fetzer Co., The: *See*—
MacFarland, Charles H., Jr. 3,049,744.
Scott, Frank L., and H. Q. Smith, to Pennsalt Chemicals Corp. Polymers of triazines, sulfamides and formaldehyde. 3,039,997, 6–19–62, Cl. 260—67.6.
Scott, Francis L., to Pennsalt Chemicals Corp. Preparation of substituted perchlorylaromatic compounds. 3,047,589, 7–31–62, Cl. 260—349.
Scott, Francis L., to Pennsalt Chemicals Corp. Novel synthesis of sulfonamides. 3,062,813, 11–6–62, Cl. 260—239.8.
Scott, Fred W. Phonograph record. 3,035,840, 5–22–62, Cl. 274—42.
Scott, Frederick G.: *See*—
Burdis, William, and Scott. 3,063,597.
Scott, George A.: *See*—
Williams, Milton S., Jr., and Scott. 3,022,409.
Scott, George A., to General Electric Co. Door safety latch for heated cavity. 3,050,048, 8–21–62, Cl. 126—273.
Scott, Gerald, to Imperial Chemical Industries Ltd. Hyponitrite catalysts for polymerisation of ethylenically unsaturated compounds. 3,042,663, 7–3–62, Cl. 260—88.7.
Scott, H. A.: *See*—
Young, Lawrence A., and Cochron. 3,034,358.
Scott, Harold E. B., to Vickerys Ltd. Doctors for paper-making and like machines. 3,065,486, 11–27–62, Cl. 15—256.51.
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Scott, Harry A., to Continental Can Co., Inc. Locking band for containers. 3,054,548, 9–18–62, Cl. 229—5.7.
Scott, Harry A., and G. E. Dugan, to Railroad Accessories Corp. Rail bond connector devices. 3,058,764, 10–16–62, Cl. 287—20.3.
Scott, Harry R., to The Tappan Co. Oven door seal. 3,029,-805, 4–17–62, Cl. 126—190.
Scott, Howard M.: *See*—
Korff, Marvin, and Scott. 3,021,486.
Korff, Marvin, and Scott. 3,050,686.
Phillips, Clem H., and Scott. 3,054,927.
Scott, Ian J. C., to Holley Carburetor Co. Electronic governor. 3,036,562, 5–29–62, Cl. 123—102.
Scott, J. O., to Cities Service Research and Development Co. Gas fired oil-well burner. 3,050,123, 8–21–62, Cl. 166—59.
Scott, Jack R.: *See*—
Larsen, Ralph E., and Scott. 3,036,312.
Scott, James A.: *See*—
Cerwin, Frank J., and Scott. 3,018,700.
Scott, James A., to United States Steel Corp. Method of making a straight thread. 3,056,734, 10–2–62, Cl. 204—143.
Scott, James B.: *See*—
Phansalkar, Achyut K., Roebuck, and Scott. 3,046,222.
Roebuck, Albert H., and Scott. 3,042,612.

Scott, James W. Wheel driven music boxes. 3,054,377, 9–18–62, Cl. 116—61.
Scott, Joe E.: *See*—
Prizler, Paul D., and Scott. 3,065,576.
Scott, Joe L. Automatic grain separator control. 3,021,009, 2–13–62, Cl. 209—394.
Scott, John A.: *See*—
Bush, John P., and Scott. 3,055,399.
Scott, John E., to Sperry Rand Corp. Logical combining circuit. 3,043,511, 7–10–62, Cl. 235—172.
Scott, John H., to Progressive Engineering Co. Mechanical door mat. 3,029,452, 4–17–62, Cl. 15—37.
Scott, John H., and C. E. Bailey, to Progressive Engineering Co. Shoe cleaner. 3,044,099, 7–17–62, Cl. 15—311.
Scott, John L. Article vending machine. 3,064,857, 11–20–62, Cl. 221—116.
Scott, John N., Jr.: *See*—
Jones, Rufus Y., and Scott. 3,022,254.
Scott, John N., Jr., to Phillips Petroleum Co. Injection molding of plastic materials. 3,021,568, 2–20–62, Cl. 18—55.
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Scott, John R., and D. H. Bond, to The Texas Pipe Line Co. Inflatable seal bushing for pipeline casing. 3,038,732, 6–12–62, Cl. 277—34.
Scott, John W., to E. I. du Pont de Nemours and Co. Process of chlorinating polyethylene. 3,033,845, 5–8–62, Cl. 260—94.9.
Scott, Larkin B.: *See*—
Coates, Vincent J., and Scott. 3,039,353.
Scott, Larkin B., to The Perkin-Elmer Corp. Precision A.C. transducer. 3,027,510, 3–27–62, Cl. 323—45.
Scott, Larkin B., and F. B. Hutchinson, to The Perkin-Elmer Corp. Function generator. 3,032,702, 5–1–62, Cl. 323—61.
Scott, Lawrence B.: *See*—
Roddick, Douglas G., and Scott. 3,052,528.
Scott, Lyle B., to BJ Service, Inc. Injector mechanism for casing perforation plugging elements. 3,039,531, 6–19–62, Cl. 166—70.
Scott, Martin, to Metallized Carbon Co., Inc. Bearing and seal assembly. 3,048,453, 8–7–62, Cl. 308—36.2.
Scott, Maxamillian L.: *See*—
Scott, Erhardt K. and M. L. 3,036,478.
Scott, Morton W.: *See*—
Frangos, John, Jass, and Scott. 3,069,098.
Scott, O. M., & Sons Co., The: *See*—
Peoples, Virgil H., and West. 3,015,416.
West, John R. 3,028,717.
West, John R., and Robinson. 3,050,924.
West, John R., and Robinson. 3,050,925.
Scott, Orin W., to Beech Aircraft Corp. Propeller. 3,029,876, 4–17–62, Cl. 170—160.58.
Scott Paper Co.: *See*—
Busch, Richard D. 3,058,153.
Czepiel, Thomas P. 3,038,867.
Eberl, James J., and Coppick. 3,063,953.
McCarty, Clifford E., and Holak. 3,017,104.
McConnell, Albert L., and Morse. 3,070,462.
Pedrick, John L. 3,017,928.
Powers, William R. 3,025,200.
Steinmann, Henry W. 3,047,538.
Scott, Peter, and B. H. Stonehouse, to The General Electric Co. Ltd. Electric winch apparatus. 3,015,472, 1–2–62, Cl. 254—168.
Scott, Platho P., Jr.: *See*—
Lummus, James L., and Scott. 3,016,962.
Scott, Platho P., Jr., to Pan American Petroleum Corp. Low solids drilling fluid. 3,070,543, 12–25–62, Cl. 252—8.5.
Scott, Platho P., Jr., D. B. Anderson, and A. Park, to Pan American Petroleum Corp. Shale hydration inhibitors for clear water drilling fluids. 3,017,351, 1–16–62, Cl. 252—8.5.
Scott, Raymond P. W., and F. Carter, to Engelhard Hanovia, Inc. Measuring device. 3,067,327, 12–4–62, Cl. 250—43.5.
Scott, Reed B., to Lockheed Aircraft Corp. Thermal forming device. 3,065,331, 11–20–62, Cl. 219—149.
Scott, Richard: *See*—
Bartlett, William F., and Scott. 3,041,401.
Scott, Richard L., to Phillips Petroleum Co. Means and method for carbon and hydrogen analysis. 3,050,372, 8–21–62, Cl. 23—230.
Scott, Robert D., to I-T-E Circuit Breaker Co. Inflatable gasket for isolated phase bus. 3,038,022, 6–5–62, Cl. 174—99.
Scott, Robert E., to Gagnier Fibre Products Co. Socketed molding retainer. 3,039,160, 6–19–62, Cl. 24—213.
Scott, Robert E., to Gagnier Fibre Products Co. Molding retainer. 3,047,919, 8–7–62, Cl. 24—73.
Scott, Robert H., to General Motors Corp. Vehicle wheel rim. 3,043,358, 7–10–62, Cl. 152—410.
Scott, Robert J.: *See*—
Rogers, Ezra S., and Scott. 3,018,548.
Scott, Robert L. Fuel converter. 3,051,153, 8–28–62, Cl. 123—122.
Scott, Roderic M., to The Perkin-Elmer Corp. Rollers. 3,052,395, 9–4–62, Cl. 226—190.
Scott, Ronald E. Analog converter. 3,023,405, 2–27–62, Cl. 340—347.
Scott, Roy L. Safety wheel construction. 3,028,900, 4–10–62, Cl. 152—158.
Scott, Stanley R. Geometry projection device. 3,055,120, 9–25–62, Cl. 35—26.
Scott, Stephen W.: *See*—
Brennan, Joseph H., and Scott. 3,056,658.
Scott, Troy A., to Minneapolis-Honeywell Regulator Co. Photographic composition. 3,039,871, 6–19–62, Cl. 96—85.
Scott, Troy A., to Minneapolis-Honeywell Regulator Co. Photographic hydroxyethyl starch silver halide print-out composition. 3,047,392, 7–31–62, Cl. 96—108.
Scott, Vernon B.: *See*—
Dinning, Robert W., and Scott. 3,053,188.
Peters, Clifford M., and Scott. 3,044,492.
Scott, Victor L. Collapsible shelter. 3,027,189, 3–27–62, Cl. 297—184.
Scott Viner Co., The: *See*—
Carmichael, Mead S., Jr. 3,041,112.
Carmichael, Mead S., Jr., and Stark. 3,033,584.
Scott, Wayne R., to Prime Mfg. Co. Coiled strip ribbing. 3,023,888, 3–6–62, Cl. 206—59.
Scott, Wellington W., and J. P. Irvine, to Arwell Inc. Bait box. 3,015,184, 1–2–62, Cl. 43—131.
Scott, William D., and L. E. Hoffman. Unattended fish catching rig. 3,055,136, 9–25–62, Cl. 43—15.
Scott, William F.: *See*—
Jones, John P., Scott, and Methling. 3,040,541.
Scott, William J., to S. J. Forbes, Chuck. 3,030,121, 4–17–62, Cl. 279—97.
Scott, William J., to Ideal Industries, Inc. Connector. 3,056,851, 10–2–62, Cl. 174—87.
Scott, William J., and F. L. Crowther, to Associated Electrical Industries (Rugby) Ltd. T.R. devices. 3,059,193, 10–16–62, Cl. 333—13.
Scott, William M., Jr., to I-T-E Circuit Breaker Co. Removable cover for current limiting fuse housing. 3,030,474, 4–17–62, Cl. 200—133.
Scott, William P.: *See*—
Dry, Neal E., and Scott. 3,042,620.
Scott & Williams, Inc.: *See*—
Browne, Lindsay H. 3,048,114.
Folsom, George I. 3,026,694.
Lawson, Robert H. 3,029,619.
Lawson, Robert H. 3,046,763.
McDonough, John J. 3,034,324.
Moody, Robert J. 3,066,512.
Page, Frank R. 3,019,628.
Shelmire, Stanley R. 3,046,762.
Scotti, Ambrogio. Hydraulic mechanical device for tightening tubular elastic elements. 3,028,812, 4–10–62, Cl. 103—117.
Scotti, Tullio: *See*—
Arcamone, Federico, Bertazzoli, Ghione, and Scotti. 3,065,147.
Scottish Agricultural Industries Ltd.: *See*—
Baynham, John W. 3,026,193.
Ralstrick, Bernard, and Raitt. 3,049,419.
Scottish Mechanical Light Industries Ltd.: *See*—
Sandor, Bela T., and Talas. 3,052,923.
Scovel, James A.: *See*—
Doan, Harold R., and Scovel. 3,020,083.
Scovil, Henry E. D.: *See*—
Gyorgy, Ernst M., and Scovil. 3,051,917.
Scovill Mfg. Co.: *See*—
Bares, Richard W. 3,069,951.
Briechle, Joseph. 3,067,618.
Clason, George F. 3,059,352.
Duell, Morgan V. 3,025,581.
Firing, Osborne. 3,068,542.
Firing, Osborne. 3,068,549.
Harris, William H. 3,021,946.
Huelster, Otto J. 3,018,534.
Janes, Edmund D. 3,028,646.
Krake, Leland W. 3,070,255.
Lawson, Richard G. 3,056,197.
Lengyel, John F. 3,066,691.
Mackey, Charles W., Jr. 3,025,870.
Passaggio, Charles. 3,028,758.
Rinaldi, Nicholas. 3,018,532.
Seyfried, Arthur W. 3,050,921.
Troske, Frederick W. 3,028,601.
Williams, Selden T. 3,019,832.
Williams, Selden T. 3,031,354.
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Scoville, Jay R. Casing for modular units. 3,052,821, 9–4–62, Cl. 317—101.
Scoville, Wright A. Apparatus for cutting and sorting lumber and method. 3,024,818, 3–13–62, Cl. 144—309.
Scozzafava, Milton V.: *See*—
Boyden, Robert E., Scozzafava, and Stansell. 3,023,953.
Scozzafava, Milton V., J. K. Linn, R. E. Busch, and R. E. Boyden, to Clary Corp. Sales transaction registering apparatus. 3,017,081, 1–16–62, Cl. 235—60.31.
Scozzafava, Milton V., J. K. Linn, R. E. Busch, and R. E. Boyden, to Clary Corp. Sales transaction registering apparatus. 3,064,892, 11–20–62, Cl. 235—130.
Scragg, Ernest, & Sons Ltd.: *See*—
Findlow, Eric. 3,021,663.
Nesbitt-Dufort, Timothy. 3,016,678.
Scragg, Frederick. 3,023,481.
Scragg, Frederick. 3,035,399.
Scragg, Ernest P. R. 3,066,471.
Scragg, Ernest P. R., to Ernest Scragg & Sons Ltd. Textile yarn package changing arrangements. 3,066,471, 12–4–62, Cl. 57—34.5.

Scragg, Frederick, to Ernest Scragg & Sons Ltd. Yarn crimping apparatus. 3,023,481, 3–6–62, Cl. 28—1.
Scragg, Frederick, to Ernest Scragg & Sons Ltd. High speed false twist devices for textile yarns. 3,035,399, 5–22–62, Cl. 57—77.45.
Scragg, Frederick, and P. Forward, to Sydney & E. Scragg, Ltd. Twisting of textile yarns. 3,029,591, 4–17–62, Cl. 57—157.
Scragg, Sydney & E., Ltd.: *See*—
Scragg, Frederick, and Forward, 3,029,591.
Scremin, Ernest, ⅓ each to H. Singh, and E. L. Perry. Two-piece plowshare. 3,068,945, 12–18–62, Cl. 172—749.
Screw and Bolt Corp. of America: *See*—
Anthony, Jay D. 3,061,455.
Screw Conveyor Corp.: *See*—
Escher, Edward P. 3,047,128.
Escher, Edward P. 3,060,665.
Scriabine, Igor, to Societe des Usines Chimiques Rhone-Poulenc. Alkylaromatic aldehydes and their preparation. 3,023,247, 2–27–62, Cl. 260—599.
Scriba, Gottfried: *See*—
Von Friedrich, Adolf, and Scriba, 3,018,261.
Scribner, Albert W., to Royal McBee Corp. Record perforating device. 3,019,966, 2–6–62, Cl. 234—50.
Scribner, Albert W. Metal drawing. 3,024,896, 3–13–62, Cl. 205—26.
Scribner, Albert W., to Royal McBee Corp. Typewriting apparatus. 3,045,796, 7–24–62, Cl. 197—57.
Scribner, Arthur C.: *See*—
Wademegh, Robert, Scribner, and Haven. 3,044,034.
Scribner, Richard M., to E. I. du Pont de Nemours and Co. Nitrofluoroalkanes and their synthesis. 3,057,931, 10–9–62, Cl. 260—644.
Scripto, Inc.: *See*—
Bogle, Kenneth H., and Lovejoy. 3,017,035.
Lovejoy, Charles K. 3,032,012.
Race, Ruath J. 3,025,835.
Van Haltern, Frank, Jr., and Vaughan. 3,062,191.
Scriptomatic, Inc.: *See*—
Shepherd, Robert A. 3,053,176.
Scripture, Floyd R.: *See*—
Nelson, Harold B., and Scripture. 3,046,455.
Scrivens, George W., and R. J. Trewella, to Johnson & Johnson. Sterile sponge package. 3,061,087, 10–30–62, Cl. 206—63.2.
Scruby, Charles C., to Ladders, Inc. Ladders. 3,070,188, 12–25–62, Cl. 182—163.
Scruby, Stanley R.: *See*—
McIver, Donald J., and Scruby. 3,069,205.
Scruggs, David M.: *See*—
Herron, Robert H., Vogan, and Scruggs. 3,055,769.
Scudi, John V.: *See*—
Prince, Herbert N., Reisner, and Scudi. 3,070,498.
Reisner, David B., and Scudi. 3,021,333.
Scuhoff, Lydia A., to United States of America, Army. Ultrapure, ultra thin films of niobium oxide. 3,047,424, 7–31–62, Cl. 117—99.6.
Scully, Frank P., Jr., to Scully Signal Co. Flush box cover. 3,034,678, 5–15–62, Cl. 220—3.8.
Scully, John T. Brush holders. 3,026,998, 3–27–62, Cl. 206—15.1.
Scully, John T. Necktie holders. 3,050,737, 8–28–62, Cl. 2—153.
Scully-Jones and Co.: *See*—
Better, Bernard R. 3,041,898.
Lehde, John W., Jr. 3,017,643.
Scully Signal Co.: *See*—
Rowell, William G. 3,026,004.
Schutter, George M., and Young. 3,042,069.
Scully, Frank P., Jr. 3,034,678.
Scurlock, Arch C., M. L. Rice, and B. P. Wales, to Atlantic Research Corp. Catapult. 3,028,125, 4–3–62, Cl. 244—63.
Scutti, Frank W., Sr.: *See*—
Hallow, William C., Lion, Kranc, Custis, and Scutti. 3,032,301.
Sdruzeni podniku textilniho strojirenstvi: *See*—
Barton, Frantisek. 3,046,768.
Hanzl, Vladimir, and Maler. 3,043,122.
Losert, Miloslav. 3,033,012.
Losert, Miloslav, and Zahradka. 3,063,269.
Lunak, Hynek. 3,030,785.
Lunak, Hynek. 3,033,013.
Pavek, Miloslav. 3,038,293.
Pavek, Miloslav. 3,038,294.
Rotrekl, Otto. 3,047,028.
Svaty, Vladimir. 3,065,769.
Svatý, Vladimír, and Libánský. 3,065,770.
Svaty, Vladimir, Otta, and Houdek. 3,057,224.
Svaty, Vladimir, Riha, and Taticek. 3,047,027.
Seaberg, Ernest E.: *See*—
Moore, Michael, Seaberg, and Guest. 3,039,536.
Seaberg, Ernest E., and K. E. Guest, to Safety First Products Corp. Falling weight operated valve. 3,030,063, 4–17–62, Cl. 251—74.
Seaborg, Glenn T., and R. A. James, to United States of America, Atomic Energy Commission. Methods of preparation of element 95. 3,044,944, 7–17–62, Cl. 204—154.2.
Seaborn, Joyce E.: *See*—
Davis, Herbert M., and Seaborn. 3,065,410.
Seaborn, Paul E., to FMC Corp. Segregating apparatus. 3,031,078, 4–24–62, Cl. 209—121.
Seaborne, Thomas L. Milk measuring and sampling device for milking machines. 3,045,493, 7–24–62, Cl. 73—424.
Seabright, Clarence A., to The Harshaw Chemical Co. Blue pigments. 3,025,178, 3–13–62, Cl. 106—299.
Seabright-Oswego Falls Corp.: *See*—
Wilcox, Isaac L. 3,059,799.
Seabrook Farms Co., Division of Francis H. Leggett & Co.: *See*—
Fellers, John C., and Morin. 3,049,427.
Seabrook, John T. Gun rest with magnetic holding means. 3,041,938, 7–3–62, Cl. 89—37.
Seabury, William A., III., and R. D. McNutt, to International Business Machines Corp. Method of making electrical circuit. 3,059,320, 10–23–62, Cl. 29—155.5.
Seader, Leonard D.: *See*—
Hoagland, Albert S., and Seader. 3,034,111.
Seafeldt, Edward J. Low pressure tire alarm. 3,036,546, 5–29–62, Cl. 116—34.
Seager, Donald B., to Lockheed Aircraft Corp. Aircraft utilizing jet augmented thrust for VTOL. 3,066,891, 12–4–62, Cl. 244—23.
Seager, Donald W.: *See*—
Peshin, John V., and Seager. 3,049,457.
Seager, Donald W., and A. B. Ferry, to International Business Machines Corp. Method for producing a form-retaining roll of extensible tape. 3,061,886, 11–6–62, Cl. 18—48.
Seager, John J. Hoist line grab hook. 3,038,753, 6–12–62, Cl. 294—83.
Seagram, Joseph E., & Sons, Inc.: *See*—
Unger, Earl D. 3,018,910.
Seagraves, William H.: *See*—
Inc, Leonard J., and Seagraves. 3,039,086.
Sea Gull Lubricants, Inc.: *See*—
Wilkey, John E. 3,057,799.
Seal Sonic, Inc.: *See*—
Kroner, George. 3,063,570.
Mintz, Jacob. 3,039,599.
Sealana, Virginia A. Book marker. 3,059,609, 10–23–62, Cl. 116—119.
Sealanco Ltd.: *See*—
Howard, Frederick G. 3,043,424.
Sea-Land Service, Inc.: *See*—
Tantlinger, Keith W. 3,027,025.
Tantlinger, Keith W. 3,042,227.
Tantlinger, Keith W. 3,044,653.
Sealander, Oscar M. Stand for wheel aligning device. 3,057,-617, 10–9–62, Cl. 269—46.
Seale, Milton A. Trigonometric function finding device. 3,042,301, 7–3–62, Cl. 235—88.
Seale, Virgil L.: *See*—
Kirkpatrick, Willard H., and Seale. 3,042,625.
Kirkpatrick, Willard H., and Seale. 3,049,511.
Kirkpatrick, Willard H., Seale, and Church. 3,061,620.
Kirkpatrick, Willard H., Seale, and Noe. 3,047,495.
Sealectro Corp.: *See*—
Deakin, Stanley T. 3,027,534.
Deakin, Stanley T. 3,047,832.
Powell, Albert E. 3,016,498.
Powell, Albert E. 3,046,502.
Sealed Air Corp.: *See*—
Chavannes, Marc A. 3,018,540.
Chavannes, Marc A. 3,026,231.
Sealed Power Corp.: *See*—
Paull, Donald A., and Wilson. 3,051,633.
Sealey, William C., to Allis-Chalmers Mfg. Co. Distribution voltage regulator. 3,041,560, 6–26–62, Cl. 336—45.
Seal-Less Strapping Ltd.: *See*—
Mosey, Frederick W., Langford, and Wild. 3,035,814.
Sealol Corp.: *See*—
Biello, Stephen J., and Lindeboom. 3,029,835.
Seals, Wesley H.: *See*—
Edens, Samuel V., Goodrich, and Seals. 3,047,762.
Seals, William O.: *See*—
Milewski, John V., and Seals. 3,056,279.
Seal-Spout Corp.: *See*—
Klausmann, Milton H., Brucker, and O'Lenick. 3,025,-813.
Sealtite Insulation Mfg. Corp.: *See*—
Firnhaber, Miles S. 3,048,885.
Firnhaber, Miles S., Miller, and Kovach. 3,048,886.
Seaman, Bernard. Barbecue grill. 3,046,970, 7–31–62, Cl. 126—25.
Seaman, Francis E., and E. C. Garrabrant, to Lock Joint Pipe Co Prestressed concrete pipes. 3,034,537, 5–15–62, Cl. 138—176.
Seaman, Harry J. Pneumatic road roller. 3,015,997, 1–9–61, Cl. 94—50.
Seaman, Norman R. Composite air dome structure. 3,057,-368, 10–9–62, Cl. 135—1.
Seaman, Seth W., and R. A. Munroe. Tent structure. 3,052,-249, 9–4–62, Cl. 135—1.
Seamans, Donald C., and W. O. Ingalls, to Boston & Lockport Block Co. Pulley block. 3,050,286, 8–21–62, Cl. 254—192.
Seamless Rubber Co., The: *See*—
Boylan, William H., and O'Brien. 3,063,891.
O'Brien, William J., and Downey. 3,059,241.
Pestronk, Arnold. 3,034,467.
Seamster, Alfred H.: *See*—
Eichhorn, Jacob, Seamster, and Beall. 3,056,743.
Seanor, Rex C.: *See*—
Obarski, Richard W., Trishman, and Seanor. 3,060,734.

Seaporcel Metals, Inc. : *See*—
Burmeister, Frederick. 3,024,880.
Sear, Arthur W., P. D. Schulz, and D. E. White, to Minneapolis-Honeywell Regulator Co. Pressure responsive apparatus. 3,022,395, 2–20–62, Cl. 200—83.
Sear, Derek W., and C. W. Evans, to Dunlop Rubber Co. Ltd. Rubber hose. 3,024,813, 3–13–62, Cl. 138—137.
Searcy, Alan W., and D. J. Meschi, to United States of America, Atomic Energy Commission. Aluminum production method. 3,031,294, 4–24–62, Cl. 75—68.
Searcy, John H., to Systems Engineering Laboratories, Inc. Gating circuit for low-level multiplex system. 3,070,663, 12–25–62, Cl. 179—15.
Searcy, John H., and H. Scharla-Nielsen, to Radiation, Inc. Automatic voltage regulator. 3,054,942, 9–18–62, Cl. 323—15.
Searer, Jay C. : *See*—
Less, Frank W., Searer, and Roeck. 3,020,254.
Searight, Charles E., to Cataphote Corp. Stripe applicator for pavements. 3,018,704, 1–30–62, Cl. 94—44.
Searight, Charles E., to Cataphote Corp. Glass composition. 3,035,928, 5–22–62, Cl. 106—54.
Searl, Stacy F. Bed vibrator. 3,027,892, 4–3–62, Cl. 128—33.
Searle, G. D., & Co. : *See*—
Atwater, Norman W. 3,023,227.
Bergstrom, Clarence G., and Dodson. 3,027,386.
Bergstrom, Clarence G., and Dodson. 3,029,258.
Bergstrom, Clarence G., and Dodson. 3,029,259.
Bible, Roy H., Jr. 3,015,656.
Bible, Roy H., Jr. 3,038,930.
Bible, Roy H., Jr. 3,055,892.
Bible, Roy H., Jr. 3,055,893.
Brown, Edward A. 3,033,835.
Brown, Edward A. 3,053,840.
Brown, Edward A., and Cella. 3,036,069.
Cella, John A. 3,043,837.
Chinn, Leland J. 3,019,233.
Chinn, Leland J. 3,041,372.
Chinn, Leland J. 3,067,207.
Colton, Frank B. 3,031,473.
Colton, Frank B., and Ray. 3,068,249.
Counsell, Raymond E. 3,016,390.
Cusic, John W., and Hamilton. 3,055,891.
Cusic, John W., and Hamilton. 3,061,609.
Dodson, Raymond M. 3,016,403.
Dodson, Raymond M. 3,065,227.
Dodson, Raymond M., and Goldkamp. 3,017,418.
Dodson, Raymond M., and Muir. 3,029,233.
Dodson, Raymond M., and Papesch. 3,037,027.
Dodson, Raymond M., and Sollman. 3,032,565.
Dodson, Raymond M., and Sollman. 3,055,949.
Goldkamp, Arthur H. 3,036,067.
Goldkamp, Arthur H. 3,054,808.
Goldkamp, Arthur H. 3,057,885.
Jiu, James. 3,016,391.
Jiu, James. 3,018,297.
Jiu, James. 3,024,256.
Johns, William F. 3,016,389.
Johns, William F., and Mueller. 3,025,308.
Jordt, Robert. 3,059,766.
Kalm, Max J. 3,047,574.
Kalm, Max J., and Rorig. 3,025,293.
Klimstra, Paul D. 3,018,296.
Klimstra, Paul D., and Counsell. 3,018,298.
Krimmel, Carl P. 3,016,372.
Krimmel, Carl P. 3,043,868.
Lovell, Calvin, and Rorig. 3,025,302.
Lowrie, Harman S. 3,025,291.
Lowrie, Harman S. 3,037,022.
Mihina, Joseph S. 3,029,260.
Miramontes, Luis E. 3,033,857.
Muir, Robert D., and Dodson. 3,023,229.
Nysted, Leonard N. 3,038,912.
Papesch, Viktor. 3,056,781.
Papesch, Viktor. 3,056 782.
Papesch, Viktor, and Dodson. 3,056,783.
Pappo, Raphael. 3,017,410.
Pappo, Raphael. 3,043,836.
Pappo, Raphael. 3 063,987.
Robinson, Richard A. 3,015,660.
Robinson, Richard A. 3,025,297.
Rorig, Kurt J. 3,015,659.
Rorig, Kurt J. 3,015,662.
Rorig, Kurt J. 3,019,228.
Rorig, Kurt J. 3,028,391.
Rorig, Kurt J. 3,029,246.
Rorig, Kurt J. 3,036,115.
Rorig, Kurt J. 3,045,023.
Rorig, Kurt J. 3,068,237.
Rorig, Kurt J., and Yonan. 3,062,861.
Tweit, Robert C. 3,025,295.
Tweit, Robert C. 3,063,993.
Tyner, David A. 3,042,689.
Tyner, David A. 3,049,555.
Yang, Nien-Chu C. 3,060 202.
Zimmermann, Markus. 3,015,663.
Searle, Norman E., to E. I. du Pont de Nemours and Co. Esters of thiocarboxylic acids. 3,022,151, 2–20–62, Cl. 71—2.6.
Searle, Walter W. R., to The Hoover Co. Washer-extractor having a safety control. 3,058,329, 10–16–62, Cl. 68—24.
Searles, Amos. Conveyor belt cleaner. 3,047,133, 7–31–62, Cl. 198—230.
Searles, William G., to Sperry Rand Corp. Harvester. 3,030,876, 4–24–62, Cl. 100—98.
Searles, William G., to Sperry Rand Corp. Separator. 3,032,-193, 5–1–62, Cl. 209—144.
Sears, Chester G., and G. J. Butterworth, to Poor & Co. Crushing and screening plant. 3,016,203, 1–9–62, Cl. 241—24.
Sears, Kay G. : *See*—
Keen, Harry J., and Sears. 3,041,548.
Keen, Harry J., and Sears. 3,041,549.
Sears, Kay G., R. M. Logue, and N. Koulomzin, to Lovoie Laboratories, Inc. Automatic testing apparatus. 3,065,-414, 11–20–62, Cl. 324—57.
Sears, Ralph C. Windrowing attachment for rotary lawn mowers. 3,020,693, 2–13–62, Cl. 56—25.4.
Sears, Richard E., to Beaver Precision Products, Inc. Ball screw with stop means. 3,029,660, 4–17–62, Cl. 74—424.8.
Sears, Roebuck and Co. : *See*—
Chapin, Howard R. 3,062,473.
Chesser, Cecil E. 3,050,160.
Chesser, Cecil E. 3,062,261.
Cline, Truman H., and Clarke. 3,033,188.
Danley, Philip R. F. 3,023,439.
Duncan, Alan W. 3,027,215.
Golec, Edward J. 3,069,109.
Heiniger, Daniel W. 3,042,434.
Louthan, George R. 3,062,128.
Matoba, Kyozo. 3,049,117.
Roberts, John W. 3,032,242.
Stein, Max. 3,062,216.
Vieceli, Joseph L. 3,040,648.
Sears, Sam E. Combination awning and swimming pool cover. 3,021,530, 2–20–62, Cl. 4—172.
Sears, Thomas O. Inflatable fishing container. 3,025,629, 3–20–62, Cl. 43—55.
Sears, Vernon R. Portable hose spraying apparatus. 3,049,-304, 8–14–62, Cl. 239—318.
Sears, Victor H. : *See*—
Myerson, Simon, and Sears. 3,035,347.
Seary Mfg. Co. : *See*—
Flynn, Frank M. 3,045,867.
Flynn, Frank M. 3,067,805.
Seaton, Norman T. Variable-field permanent magnet. 3,018,-422, 1–23–62, Cl. 317—201.
Seaton, William E. : *See*—
Haynes, William A., and Seaton. 3,037,767.
Seaton, William H. :*See*—
Pike, Elmer A., and Seaton. 3,055,950.
Sea-Trim Corp. : *See*—
Sherrill, John F. 3,046,928.
Seaver, William B., to General Motors Corp. Shaft seal. 3,033,579, 5–8–62, Cl. 286—11.14.
Seavey, Edith S. : *See*—
Seavey, Gordon C. 3,030,516.
Seavey, Frederick R., to Olin Mathieson Chemical Corp. Method for the manufacture of bridge plugs. 3,029,681, 4–17–62, Cl. 86—1.
Seavey, Gordon C., deceased, by E. S. Seavey, executrix, to Comstock & Westcott, Inc. Transparent container inspection. 3,030,516, 4–17–62, Cl. 250—221.
Seavey, Gordon C., to Borg-Warner Corp. Hydraulic amplifier. 3,038,498, 6–12–62, Cl. 137—623.
Seaward, Carl R., to General Electric Co. Process for producing an electrically insulated conductor. 3,034,971, 5–15–62, Cl. 204—37.
Seaward, Edward T., and R. E. Rosati, to United Aircraft Corp. Fuel spray nozzle. 3,044,264, 7–17–62, Cl. 60—39.74.
Seay, Patrick H., to The Upjohn Co. 2-acetamido-4-phenyl thiazole process of inhibiting gastric secretion in human beings. 3,020,202, 2–6–62, Cl. 167—65.
Sebac Nouvelle S.A. : *See*—
Coanda, Henri. 3,047,208.
Sebald, Joseph F., and A. L. Jones, to Worthington Corp. Contact heater for fluids containing undissolved solids. 3,047,276, 7–31–62, Cl. 261—3.
Sebastian, Frances H. All purpose dryer. 3,023,912, 3–6–62, Cl. 211—178.
Sebastian, James R., and C. L. Filkins, to The Rapids-Standard Co., Inc. Pallets. 3,026,817, 3–27–62, Cl. 104—135.
Sebastian, Thomas E., to Continental Machines, Inc. Band cleaning device. 3 034,387, 5–15–62, Cl. 83—168.
Sebastopol Cooperative Cannery : *See*—
Overstreet, George W. and W. A. 3,039,504.
Sebek, Oldrich K. : *See*—
Hanze, Arthur R., Murray, and Sebek. 3,038,913.
Sebel, D., & Co. Ltd. : *See*—
Rassier, Cecil A. 3,034,827.
Rassier, Cecil A. 3,050,302.
Sebelist, Frederick J., and R. H. Weir, to E. I. du Pont de Nemours and Co. Esterification of terephthalic acid with aqueous glycol. 3,057,909, 10–9–62, Cl. 260—475.
Sebena, Charles C. Anti-skid device. 3,031,000, 4–24–62, Cl. 152—218.
Sebok, Albert L. : *See*—
Daugherty, Frank Z., and Sebok. 3,032,671.
Seborg, Earnest Y., to The Ingersoll Milling Machine Co. Rail leveling system. 3,027,813, 4–3–62, Cl. 90—15.
Secchitano, Joseph J., Jr. : *See*—
Vining, Edward K., Hardin, and Secchitano. 3,061,825.

Seccombe, Lionel H., Jr.: *See*—
Willis, Grant N., and Seccombe. 3,045,584.
Sechrist, Clifton N.: *See*—
Brandt, Preston L., and Sechrist. 3,030,939.
Sechrist, Clifton N., J. F. Jennings, and J. T. Kelly, to Standard Oil Co. Regenerative isomerization technique. 3,042,-730, 7–3–62, Cl. 260—683.74.
Sechrist, Roy H. Wheelchair steering arrangement. 3,017,-199, 1–16–62, Cl. 280—269.
Seck, Charles F., to Corning Glass Works. Capacitor manufacture. 3,020,193, 2–6–62, Cl. 156—517.
Seckerson, Clifford A.: *See*—
Ensberg, Eric B., and Seckerson. 3,061,340.
Seco, Inc.: *See*—
Moss, James R., Koch, and Stevens. 3,021,121.
Secretan, Frank, to Collins Radio Co. Digital phase-pulse demodulator. 3,020,485, 2–6–62, Cl. 329—104.
Secretan, Frank, to Collins Radio Co. Proportional digital synchronizer. 3,024,417. 3–6–62. Cl. 328—42.
Secretan, Frank, to Collins Radio Co. Digital phase storage circuit. 3,028,551, 4–3–62, Cl. 328—22.
Sectional Die Co., The: *See*—
Babitt, George J. 3,015,879.
Security Aluminum Corp.: *See*—
Riegelman, Harry M. 3,055,064.
Security First National Bank: *See*—
Turner, Wheeler M. 3,057,961.
Turner, Wheeler M., and Chabot. 3,053,981.
Security First National Bank of Los Angeles: *See*—
Baker, Reuben C. 3,054,450.
Beckner, Bernard E., and Druckey. 3,045,219.
Beckner, Bernard E., Irving, and Drukey. 3,062,922.
Security Storm Lock and Hardware Corp.: *See*—
Friedman, George J. 3,065,624.
Sedar, George A.: *See*—
Walker, William F., and Sedar. 3,040,500.
Sedberry, Donald D.: *See*—
Dunlap, Charles K., Jr., Gibson, McGee, and Sedberry. 3,064,870.
Sedergren, Erling D.: *See*—
Eames, James O. 3,040,845.
Sanford, Roy S., and Eames. 3,055,458.
Sedgfield, Hugh B., to Sperry Gyroscope Co. Ltd. High-accuracy gyroscopic apparatus. 3,055,223, 9–25–62, Cl. 74—5.37.
Sedgwick, Grant O.: *See*—
Hansen, Louis I., and Sedgwick. 3,051,729.
Sedgwick, Robert K.: *See*—
Brainard, Wallace E., Hansen, Sedgwick, and Sipek. 3,054,335.
Brainard, Wallace E., Hansen, Sedgwick, Sipek, and Baechle. 3,052,011.
Sedgwick, Robert K., and C. B. Sipek, to Kearney & Trecker Corp. Identifying means for tools. 3,052,999, 9–11–62, Cl. 40—2.2.
Sedlacek, Hugo, to Beteiligungs- und Patentverwaltungsgesellschaft mit beschrankter Haftung. Detachable bridge. 3,066,332, 12–4–62, Cl. 14—14.
Sedlacek, Vaclav: *See*—
Dubsky, Borivoj, Straka, Jahelka, and Sedlacek. 3,042,-858.
Dubsky, Borivoj, Straka, Jirik, and Sedlacek. 3,026,-491.
Sedlacsik, John, Jr.: *See*—
Sedlacsik, John, and J. Sedlacsik, Jr. 3,049,092.
Sedlacsik, John, Jr., to Interplanetary Research & Development Corp. Apparatus for electrostatically spray coating articles. 3,016,876, 1–16–62, Cl. 118—631.
Sedlacsik, John, Jr., to Interplanetary Research & Development Corp. Electrostatic spray coating apparatus and method. 3,051,394, 8–28–62, Cl 239—3.
Sedlacsik, John, Jr., to Interplanetary Research-Development Corp. Vacuum pump. 3,053,436, 9–11–62, Cl. 230—101.
Sedlacsik, John, and J. Sedlacsik, Jr., to Interplanetary Research & Development Corp. Apparatus for the electrostatic coating of articles. 3,049,092, 8–14–62, Cl. 118—629.
Sedlaczek, Karl: *See*—
Kieffer, Richard, and Sedlatschek, 3,039,000.
Sedley, Bruce S., to Audio Systems, Inc. Control means for electrical circuits and the like. 3,059,069, 10–16–62, Cl. 200—42.
Sedley, Bruce S., to Audio Tours, Inc. Loud-speaker enclosures. 3,064,086, 11–13–62, Cl. 179—100.
See, Walter E., to General Motors Corp. Inverted loud speaker. 3,024,323, 3–6–62, Cl. 179—115.5.
Seebohm, Donald W.: *See*—
Snider, Orvill E., Belden, Beuerman, and Seebohm. 3,021,326.
Seeburg Corp., The: *See*—
Breitenstein, Charles T. 3,034,685.
De Shon, Roy F., and Clement. 3,056,529.
Jensen, Herman G. 3,030,008.
Jorner, Victor. 3,020,050.
Kenney, Mahlon W., and Kiefer. 3,034,792.
McFarland, Richard B. 3,021,507.
Mills, Bert E. 3,053,168.
Pickering, Lenox K. 3,039,653.
Seed, Leslie, to Imperial Chemical Industries Ltd. Esters of hyponitrous acid and their use as polymerization catalysts. 3,044,997, 7–17–62, Cl. 260—89–1.

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Seeger, Florence O.: *See*—
Seeger, Edwin W. 3,016,434.
Seeger, Nelson V.: *See*—
Rosen, Irving, and Seeger. 3,068,294.
Snyder, Carl E., Seeger, Fauser, Finelli, and Lovell. 3,043,807.
Seeger, Robert W.: *See*—
Felts, Gordon P. 3,019,547.
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Seelandt, Karl H.: *See*—
Ipsen, Harold N., and Seelandt. 3,019,809.
Seelbach, Charles W.: *See*—
Tornqvist, Erik, and Seelbach. 3,034,992.
Seelbach, Charles W., and D. L. Cottle, to Esso Research and Engineering Co. Polymers of halogenated alicyclic and straight chain monomers. 3,058,966, 10–16–62, Cl. 260—91.5.
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Seeley, Edward S., to Altec Lansing Corp. Amplifier interconnecting circuit. 3,051,788, 8–28–62, Cl. 179—1.
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Seeley, Robert D.: *See*—
Reinowski, Leonard E., Hindin, and Seeley. 3,042,098.
Seelhoff, Harlan L.: *See*—
Cochran, John M., Seelhoff, and Banks. 3,023,352.
Seelig, Richard P.: *See*—
Wachtell, Richard L., and Seelig. 3,028,261.
Wachtell, Richard L., and Seelig. 3,037,883.
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Seeloff, Melvin M., to The Taylor-Winfield Corp. Flash welding apparatus. 3,046,385, 7–24–62, Cl. 219—97.
Seely, Warren A. Portable seat. 3,021,920, 2–20–62, Cl. 182—188.
Seem, Warren A.: *See*—
Stoddard, Nicholas J., and Seem. 3,025,659.
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Seemann, Walter P., and H. Hellberg, to Shell Oil Co. Method of chemical testing of oils. 3,030,190, 4–17–62, Cl. 23—230.
Seemuller, John R. Nitro phenylenediamine compositions and method for dyeing animal fibers. 3,049,393, 8–14–62, Cl. 8—10.
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Varga, Otto H. 3,053,501.
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Sefton, Verner B., and L. J. Sharman, to Canadian Industries Ltd. Manufacture of metaphosphates. 3,031,263, 4–24–62, Cl. 23—106.
Segal, Abram: *See*—
Clatot, Alfred, Lemoine, and Segal. 3,021,594.

Segal, George J., to Autolok Casters, Inc. Self locking casters. 3,025,930, 3–20–62, Cl. 188—74.
Segal, Leon: *See*—
Loeb, Leopold, Clayton, Koltum, Philips, Segal, and Takemura. 3,054,695.
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Segal, Leon, and K. H. Takemura, to United States of America, Army. Surface coatings resistant to chemical warfare liquids. 3,054,696, 9–18–62, Cl. 117—72.
Segal, Samuel. Lock construction. 3,041,866, 7–3–62, Cl. 70—1.5.
Segall, Gordon H.: *See*—
Graham, Neil B., and Segall. 3,056,764.
Segel, Edward, to J. E. Siebel Son's Co., Inc. Foaming malt beverages. 3,051,574, 8–28–62, Cl. 99—48.
Segel, Edward, to J. E. Siebel Sons' Co., Inc. Stabillzing malt beverages. 3,055,757, 9–25–62, Cl. 99—48.
Seger, Francis M.: *See*—
Munns, George W., Jr., Otto, and Seger. 3,070,576.
Seger, Fritz O., to Westinghouse Air Brake Co. Adjustable cam device. 3,021,724, 2–20–62, Cl. 74—568.
Segerdahl, Roy R.: *See*—
Kallenberg, John, and Segerdahl. 3,029,645.
Segerstrom, Carl A., to Raytheon Co. Servo loops. 3,040,311, 6–19–62, Cl. 343—7.3.
Segesman, Louis E.: *See*—
Krammes, Don C., and Segesman. 3,040,363.
Segro, Nicholas R.: *See*—
Suen, Tzeng J., and Segro. 3,053,787.
Segro, Nicholas R., to American Cyanamid Co. Process for polymerizing vinyl monomers in the presence of polymeric reducing agent and mixture of gases. 3,032,518, 5–1–62, Cl. 260—17.4.
Segro, Nicholas R., and W. Hodes, to American Cyanamid Co. Thermoplastic composition comprising a styrene polymer and a graft polymer. 3,044,972, 7–17–62, Cl. 260—17.
Segro, Nicholas R., and Y. Jen, to American Cyanamid Co. Molding composition comprising melamine formaldehyde resin and monomethylol melamine, and cured product thereof. 3,044,973, 7–17–62, Cl. 260—17.3.
Segrove, Herbert D., to British Industrial Sand Ltd. Purification of sand containing colour-imparting impurities. 3,030,364, 8–21–62, Cl. 23—182.
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Segura, Marnell A.: *See*—
Hunter, Edward A., Lambert, Segura, and Small. 3,046,244.
Sehl, Eugene, and W. D. Tebeau, to Western Supplies Co. Folding machine. 3,048,390, 6–12–62, Cl. 93—51.
Sehn, Francis J., and M. M. Clemons; said Clemons assor. to said Sehn. Automatic press material handling apparatus. 3,039,623, 6–19–62, Cl. 214—1.
Sehring, Richard: *See*—
Zeile, Karl, Sehring, and Schicke. 3,030,263.
Sehrwald, Sigrid C. V. Nippleglove. 3,070,249, 12–25–62, Cl. 215—11.
Seib, Frederick A. Combination litter and carriage means therefor. 3,015,114, 1–2–62, Cl. 5—86.
Seibel, Bobly H., to Boeing Airplane Co. Discontinuity depth gauge. 3,023,578, 2–27–62, Cl. 33—46.
Seibel, Robert, and N. Rochester, to International Business Machines Corp. Communication device. 3,022,878, 2–27–62, Cl. 197—19.
Seiberling Rubber Co.: *See*—
La Porte, Ralph T. 3,062,256.
McBride, Jack J. 3,052,314.
Seibert, Heinrich: *See*—
Bunge, Wilhelm, Seibert, and Haydn. 3,025,160.
Seibert, Howard F., to Bethlehem Steel Co. Apparatus for multi-diameter thread rolling. 3,044,329, 7–17–62, Cl. 80—9.
Seibert, Otto R. and W. F. Tapping spindle with yieldable nut retaining means. 3,045,265, 7–24–62, Cl. 10—135.
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Seibert, Warren F. Gaging device. 3,047,959, 8–7–62, Cl. 33—185.
Seibold, Ernst, and H. Müller, to J. M. Voith G.m.b.H. Power plant with drive motor and hydrodynamic transmission and controls for operating same. 3,055,169, 9–25–62, Cl. 60—12.
Seibold, Ernst G., and H. K. Müller, to J. M. Voith G.m.b.H. Maschinenfabrik. Variable slip fluid coupling. 3,020,719, 2–13–62, Cl. 60—54.
Seichter, Francis S.: *See*—
Loper, Ben H., and Seichter. 3,069,246.
Seid, Eugene, to California Computer Products, Inc. Light dimming adaptor for three-way lamps. 3,028,523, 4–3–62, Cl. 315—71.
Seida, Albert A. Device for progressively recording amounts of purchases. 3,037,766, 5–22–62, Cl. 235—125.
Seidel, Felix, W. Singer, and H. Springer, to Farbenfabrik Wolfen, VEB. Process for producing shaped articles from polyvinyl chloride. 3,067,000, 12–4–62, Cl. 18—54.
Seidel, Gunter: *See*—
Hartmann, Kurt, Hüsing, Seidel, Deppe, and Gredigk. 3,057,008.
Seidel, Harold, to Bell Telephone Laboratories, Inc. Negative resistance amplifier circuits. 3,040,267, 6–19–62, Cl. 330—56.
Seidel, Harold, to Bell Telephone Laboratories, Inc. Traveling wave maser. 3,056,091, 9–25–62, Cl. 330—4.
Seidel, Walter. Process for coating round bodies, in particular elastic cores for tennis balls, with seamless felt. 3,025,587, 3–20–62, Cl. 28—72.3.
Seidel, William B., to The Cincinnati Milling Machine Co. Machine tool anti-backlash motion transmitting mechanism. 3,031,897, 5–1–62, Cl. 74—441.
Seidel, William B., and E. Gosney, Jr., to The Cincinnati Milling Machine Co. Grinding wheel feed mechanism responsive to pressure of wheel on work. 3,056,239, 10–2–62, Cl. 51—165.
Seidel, Willy, and W. Knoblauch, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of colorless or only slightly colored addition products of alkylene oxides. 3,040,076, 6–19–62, Cl. 260—404.
Seidelhuber Steel Rolling Mill Corp.: *See*—
Persinger, Merle L. and L. O. 3,016,816.
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Seiden, Frank: *See*—
Engelbrecht, John H., and Seiden. 3,033,171.
Seiden, Herman L., to G. T. Schjeldahl Co. Sheet registry control. 3,043,532, 7–10–62, Cl. 242—57.1.
Seiden, Herman L., to G. T. Schjeldahl Co. Sheet feeding and sealing machine. 3,043,729, 7–10–62, Cl. 156—367.
Seiden, Herman L., to G. T. Schjeldahl Co. Sheet forming means. 3,059,549, 10–23–62, Cl. 93—20.
Seidenberg, Richard L.: *See*—
Mortimer, Donald C., and Seidenberg. 3,030,861.
Seidl, Friedrich, to Messrs. Alex, Friedmann Kommandit-Gesellschaft. System for feeding the condensate of steam heating installations in railroad cars. 3,028,098, 4–3–62, Cl. 237—40.
Seidl, Herbert, and A. Sifrin, to The Babcock & Wilcox Co. Fuel burning apparatus. 3,056,388, 10–2–62, Cl. 122—235.
Seidl, Lois, to American Enka Corp. Tensioning device. 3,026,063, 3–20–62, Cl. 242—155.
Seidle, Ralph E., to American Truck Body Co. Method and container for shipping brick. 3,054,362, 9–18–62, Cl. 105—367.
Seidler, Robert L. Lamp control circuit. 3,027,491, 3–27–62, Cl. 315—159.
Seidman, Herbert A., to General Precision, Inc. Step switch pulse generator. 3,043,964, 7–10–62, Cl. 307—88.5.
Seidman, Jay J., and J. R. Cornell, to The National Cash Register Co. Optical device and system. 3,019,344, 1–30–62, Cl. 250—208.
Seidner, Mihály. Liquid cooled rotors for turbo-alternators. 3,034,003, 5–8–62, Cl. 310—61.
Seidner, Orville R.: *See*—
Eddy, George D. 3,034,786.
Seido, Masami, to Minneapolis-Honeywell Regulator Co. Camera shutter cord having a changeable terminal. 3,058,089, 10–9–62, Cl. 339—180.
Seifert, Gerhard: *See*—
Jehnlich, Gerhard, and Seifert. 3,058,408.
Kodalle, Horst, and Seifert. 3,017,812.
Seifert, Hans, to Bayer Aktiengesellschaft. Farbenfabriken. Ion exchangers containing thiophenol groups. 3,044,969, 7–17–62, Cl. 260—2.2.
Seifert, Ralph W. V.: *See*—
Ott, Kenneth A., and Seifert. 3,066,592.
Seifert, Richard, to Maybach-Motorenbau G.m.b.H. Gudgeon pin lubricating system. 3,070,079, 12–25–62, Cl. 123—41.36.
Seifert, Richard, and O. Baur, to Maybach-Motorenbau G.m.b.H. Cylinder block and crankcase for multicylinder piston engine. 3,064,633, 11–20–62, Cl. 123—41.72.
Seifert, Walter F.: *See*—
Dever, Charles D., Harbour, and Seifert. 3,023,760.
Seifert, Wilbur S., to Whirlpool Corp. Apparatus for setting rivets. 3,055,528, 9–25–62, Cl. 218—42.
Seifert, Wolfgang K., and L. L. Ferstandig, to California Research Corp. Process for the preparation of mononitroolefins. 3,035,101, 5–15–62, Cl. 260—644.
Seiferth, Oscar E.: *See*—
Mayer, Gottfried O., and Seiferth. 3,044,886.
Seiferth, Oscar E., and G. M. Austin, to Oscar Mayer & Co., Inc. Food package. 3,070,446, 12–25–62, Cl. 99—171.
Seifferlein, Theo, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Exhaust reheat equipment for gas-turbine engines. 3,045,425, 7–24–62, Cl. 60—35.6.
Seiffert, Georg, to Askania-Werke A.G. Scale reading apparatus. 3,038,152, 6–5–62, Cl. 340—347.
Seifried, Lyle W., to Addressograph-Multigraph Corp. Embossing machine. 3,029,920, 4–17–62, Cl. 197—6.6.
Seifried, Paul, to Rheinmetall G.m.b.H., Firma. Breech block with support flaps mounted on hinge pins. 3,036,500, 5–29–62, Cl. 89—190.

Seifried, William A. Bean harvester. 3,031,832, 5–1–62, Cl. 56—192.
Seifter, Eli: *See*—
Langguth, Robert P., and Seifter. 3,024,100.
Seiger, Harry W. Multiple forceps tissue holding instrument. 3,035,582, 5–22–62, Cl. 128—321.
Seigle, William. Fishing line holder. 3,034,251, 5–15–62, Cl. 43—47.
Seigle, William R., to General Electric Co. Drawing tape programmer. 3,022,501, 2–20–62, Cl. 340—365.
Seijo, Ernest: *See*—
Cleland, William J., Henshall, Roper, Waring, and Seijo. 3,052,664.
Seijo, Ernest, and A. N. Roper, to Shell Oil Co. Product and process for preparing rubber containing vinyl cross-linked styrene resin of high impact strength. 3,068,191, 12–11–62, Cl. 260—45.5.
Seike, Helmut K., to Kaiser Industries Corp. Static power inverter. 3,024,373, 3–6–62, Cl. 307—150.
Seike, Helmut K., to Kaiser Industries Corp. Static power inverter. 3,046,412, 7–24–62, Cl. 307—82.
Seiko Denki Kogyo Kabushiki Kaisha: *See*—
Akioka, Yoshio, and Mishina. 3,033,075.
Seiler, Charles J., to General Electric Co. Composition and process for the production of laminates. 3,024,156, 3–6–62, Cl. 156—314.
Seiler, David A. L., and J. P. Brown, to Monsanto Chemicals Ltd. Germicides. 3,046,190, 7–24–62, Cl. 167—31.
Seiler, Edwin W. Roll supported vehicle for irregular terrain. 3,034,467, 9–18–62, Cl. 180—20.
Seiler, William, 50% jointly to L. C. Glaser, H. Herman, H. M. Felner, M. Goodson, and A. A. Fisher. Safety-razor handle having quick opening and closing means with cleaning positioning means. 3,027,637, 4–3–62, Cl. 30—60.5.
Seilhan, Lylan L.: *See*—
Walsh, Gregory F., Seilhan, and Walsh. 3,029,586.
Seiller, Philippe, and A. Borel. Wind actuated musical instrument. 3,034,392, 5–15–62, Cl. 84—351.
Sells, Edward C., Jr., to Walker Mfg. Co. Filter. 3,066,803, 12–4–62, Cl. 210—168.
Sein, Roberto, to Pan American Laboratories, Inc. Injector for subcutaneous implantation of solids. 3,016,895, 1–16–62, Cl. 128—217.
Seiple, Forrest H.: *See*—
Kuhar, William A., and Seiple. 3,052,769.
Seipos, Andrew G. Interlocking structural unit. 3,036,671, 5–29–62, Cl. 189—34.
Seirig, Alfred K.: *See*—
Enders, Adolf, Seirig, and Strunck. 3,052,227.
Seismograph Service Corp.: *See*—
Baltosser, Robert W., and Wilcox. 3,035,479.
Hammond, Joseph W. 3,018,838.
Hawkins, James E., Hunsicker, and Mahoney. 3,027,555.
Hawkins, James E., and Schoellhorn, and Baltosser. 3,046,553.
Hidy, John H. 3,042,898.
Holmes, Charles R., and Piper. 3,054,046.
Hunsicker, William R. 3,051,949.
Hunsicker, William R., and Mahoney. 3,027,556.
Wilson, Robert C., and Puchaty. 3,019,435.
Seiter, Eugene D., to E. I. du Pont de Nemours and Co. Apparatus for mixing flowable materials. 3,043,570, 7–10–62, Cl. 259—96.
Seitz, James P., to Ajax Magnethermic Corp. Control for electric furnace. 3,053,920, 9–11–62, Cl. 13—26.
Seitz, John M.: *See*—
Elizer, Lee H., Glasscock, and Seitz. 3,051,691.
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Seitz, John R. Football game. 3,043,594, 7–10–62, Cl. 273—94.
Seitz, Joseph K.: *See*—
Commons, Joe M. 3,023,793.
Seitz, Karl: *See*—
Riat, Henri, de Montmollin, and Seitz. 3,040,024.
Seiz, Edward A. Rack construction. 3,045,834, 7–24–62, Cl. 211—148.
Selzinger, August, to Agfa Aktiengesellschaft. Adjusting structure for enlargers or the like. 3,021,158, 2–13–62, Cl. 287—14.
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Sekella, Youston, to The Bendix Corp. High altitude sounding projectile. 3,064,480, 11–20–62, Cl. 73—421.5.
Seki, Hideo, M. Suzuki, and E. Kawai, to Sumitomo Chemical Co., Ltd. Production of crease resistance in cellulosic fabrics with the aid of 1,3-dimethylol-4,5-bis(alkoxy)-2-imidazolidinones. 3,029,164, 4–10–62, Cl. 117—139.4.
Seki, Yasuo: *See*—
Okamoto, Eiichi, Seki, and Suzuki. 3,065,393.
Sekine, Shigenobu, and S. Muramoto, to Sony Corp. Ignition system for an internal combustion engine. 3,020,897, 2–13–62, Cl. 123—32.
Sekiya, Minoru: *See*—
Ishidate, Morizo, and Sekiya. 3,057,868.
Sekizawa, Yasuharu: *See*—
Arishima, Masao, and Sekizawa. 3,019,173.
Selas Corp. of America: *See*—
Blaha, Emil. 3,046,607.
Blaha, Emil. 3,056,184.
Buckholdt, Robert E., and Bloom. 3,015,478.
Casey, Robert J. 3,020,032.
Fleischer, Kurt W. 3,026,858.
Fleischer, Kurt W. 3,062,197.
Furczyk, Alfons A. 3,051,460.
Hess, Frederic O. 3,044,110.
Hull, John R. 3,016,978.
Kniveton, James. 3,050,813.
Selby, Ernest E., and R. R. Knapp, to Dean Mfg., Inc. Device for treating water and method. 3,022,247, 2–20–62, Cl. 210—59.
Selby, Jack H.: *See*—
Haug, Chester J., Van Deusen, and Selby. 3,042,330.
Selby, Max M., to Tubular Structures Corp. of America. Dumping bucket. 3,027,032, 3–27–62, Cl. 214—707.
Selby, Michael C., and D. D. Evers, to Philco Corp. Photoconductor device. 3,060,338, 10–23–62, Cl. 313—101.
Selby, Myron C., L. F. Behrent, and F. X. Ries, to United States of America, Commerce. R. F. voltmeter calibration console. 3,041,533, 6–26–62, Cl. 324—74.
Selco Exploration Co. Ltd.: *See*—
Barringer, Anthony R. 3,017,567.
Selden, Leonard M.: *See*—
Bremer, Fred C. 3,043,506.
Seldin, Ira L.: *See*—
Buckley, Francis T., Seldin, and Wojcik. 3,069,301.
Seley, Eldon L., and R. C. Stone, Jr., to Bell Telephone Laboratories, Inc. Logic system including high fan-out stage having variable clamping means. 3,048,716, 8–7–62, Cl. 307—88.5.
Self-Changing Gears Ltd.: *See*—
Miller, Albert A. 3,051,021.
Miller, Albert A. 3,058,374.
Self, Richard E., to Thompson Ramo Wooldridge Inc. Damper reservoir gas actuator. 3,053,232, 9–11–62, Cl. 123—38.
Self, Richard E., and A. R. Allan, to Thompson Ramo Wooldridge Inc. Oscillatory actuator seal system. 3,053,236, 9–11–62, Cl. 121—99.
Selfridge, Frank W.: *See*—
Takewell, Robert B., and Selfridge. 3,026,185.
Selfridge, James J.: *See*—
Buckley, Ronald A., and Selfridge. 3,036,770.
Seliber, Joseph. Variable speed drive. 3,051,019, 8–28–62, Cl. 74—689.
Selig, Ernest T. Fixed volume sample taking device. 3,038,341, 6–12–62, Cl. 73—424.
Seligman, James F. Rhyming device. 3,036,386, 5–29–62, Cl. 35—35.
Selin, Clifford E.: *See*—
Back, Alexander E., Beck, and Selin. 3,057,714.
Selin, Karl I., to Basic Products Corp. Control circuits. 3,051,889, 8–28–62, Cl. 323—7.
Seling, Theodore V.: *See*—
McGillem, Clare D., and Seling. 3,028,596.
Selinger, Jacob J. and P. Door closers. 3,059,269, 10–23–62, Cl. 16—66.
Selinger, Peter: *See*—
Selinger, Jacob J. and P. 3,059,269.
Seljo Development Corp.: *See*—
Pollack, Selig. 3,062,384.
Pollack, Selig and J. 3,034,661.
Selke, William A., and J. I. Mathews, to Kimberly-Clark Corp. Paper composed of fibers having different temperature-responsive dimensional-change characteristics, and method of producing it. 3,032,465, 5–1–62, Cl. 162—146.
Sell, Eric A. F.: *See*—
Jackson, Thomas M., and Sell. 3,035,201.
Sell, Francis M., to Deering Milliken Research Corp. Method for hydrophobizing wool containing fabric. 3,058,850, 10–16–62, Cl. 117—141.
Sell, Frank A., Jr., to The Precise Engineering Co. Article packaging machine. 3,016,668, 1–16–62, Cl. 53—186.
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Selle, Heinz, to Schlepperwerk Nordhausen, VEB. Vehicular steering system. 3,051,257, 8–28–62, Cl. 180—79.2.
Selleck, James E. Support attachment for ironing boards. 3,055,129, 9–25–62, Cl. 38—107.
Sellers, Gose B., to Aerpat A.G. Locking pin. 3,052,940, 9–11–62, Cl. 24—211.
Sellers, Jack D. Tape handling mechanism. 3,021,989, 2–20–62, Cl. 226—118.
Sellers, Jacob L.: *See*—
Bluth, John M., and Sellers. 3,019,522.
Bluth, John M., and Sellers. 3,020,140.
Sellers, James S., deceased; M. Sellers, administratrix of said J. S. Sellers. Apparatus for transmitting sound from a baseball field. 3,045,064, 7–17–62, Cl. 179—1.
Sellers, Margaret: *See*—
Sellers, James S. 3,045,064.
Sellers, Ralph F.: *See*—
Walton, Richard K., Sellers, and Colclough. 3,026,278.
Sellers, Ralph F., to Union Carbide Corp. Catalytic process for producing organopolysiloxane resins. 3,068,199, 12–11–62, Cl. 260—46.5.

Sellers, William D.: *See*—
McAuley, James E. 3,063,937.
Sellers, William N., to American Cyanamid Co. Method of drying filamentary material. 3,049,809, 8–21–62, Cl. 34—18.
Sellers, William W. Electric heater. 3,045,097, 7–17–62, Cl. 219—19.
Sellet, Lucien, to Jacques Wolf & Co. Method for treatment of penetratable or porous material, and products produced thereby. 3,024,136, 3–6–62, Cl. 117—142.
Sellner, John W. Combined seating and reclining device and exerciser. 3,043,591, 7–10–62, Cl. 272—58.
Selner, John W., and D. F. Welborn. Exercising apparatus. 3,045,667, 7–24–62, Cl. 128—25.
Sells, Rex M., Jr.: *See*—
Halsey, Donald J., and Sells. 3,067,973.
Selm, Robert P., and B. T. Hulse, to Wilson & Co., Engineers & Architects. Treatment of chromate solutions. 3,027,-321, 3–27–62, Cl. 210—59.
Selma Trailer & Mfg. Co.: *See*—
Starr Ralph W. 3,054,635.
Selman, Jan: *See*—
Bruin, Pieter, and Selman. 3,024,285.
Selman, Johan C.: *See*—
Heijn, Herman J., and Selman. 3,056,551.
Selnick, Louis. Method of repairing sheet metal and means therefor. 3,066,719, 12–4–62, Cl. 153—32.
Selock, Dean P.: *See*—
Saidel, William R., Selock, and Lee. 3,053,152.
Sel-O-Min, Inc.: *See*—
Murphy, Donald R. 3,024,165.
Selover, James C.: *See*—
Taylor, Richard P., and Selover. 3,058,997.
Sel-Rex Precious Metals, Inc.: *See*—
Rinker, Edwin C. 3,020,217.
Selset, Ronald S., to Beebe Bros. Ratchet hoist. 3,062,505, 11–6–62, Cl. 254—167.
Selsing, Jorgen: *See*—
Smothers, William J., and Selsing. 3,024,303.
Seltzer, Edward I. Surgical clamp. 3,043,308, 7–10–62, Cl. 128—346.
Seltzer, Kenneth P., and C. B. Wendell, to Cabot Corp. Method of producing silicon tetrachloride in a molten salt bath. 3,067,012, 12–4–62, Cl. 23—205.
Seltzer, Morris: *See*—
Miller, Berram, Jr., and Seltzer. 3,057,029.
Seltzer, Norman L., to The Kendall Co. Diaper. 3,037,532, 6–5–62, Cl. 139—384.
Seiwitz, Charles M.: *See*—
Barie, Walter P., Jr., and Selwitz. 3,040,081.
Hay, Russell G., Meyer, and Selwitz. 3,068,306.
Selwitz, Charles M., and R. A. Walde, to Gulf Research & Development Co. Process for condensing aldehydes to esters. 3,047,618, 7–31–62, Cl. 260—494.
Selwyn Pacific Co.: *See*—
Beebee, Frederick L. 3,058,719.
Selzer, John. Power actuated end gate elevator for motor vehicles. 3,035,720, 5–22–62, Cl. 214—75.
Selzer, William E.: *See*—
Atanasoff, John V. and T. B., Beecher, Long, Tabler, Macrum, and Selzer. 3,033,366.
Selzle, Charles A., Sr. Golf game device. 3,018,108, 1–23–62, Cl. 273—180.
Selzler, Edwin M. Hydrostatic motor. 3,035,554, 5–22–62, Cl. 121—86.
Sem, Mathias O., to Elektrokemisk A/S. Process for operating Soderberg anodes with vertical contact studs. 3,024,178, 3–6–62, Cl. 204—67.
Semancik, Joseph T., and C. R. Walker, to American Telephone and Telegraph Co. Tandem transmitter start system. 3,043,905, 7–10–62, Cl. 178—3.
Semar, Claud S.: *See*—
Louton, James C., Jr., and Semar. 3,052,138.
Semar, Harold W., to Westinghouse Electric Corp. Vibration isolating bearing support. 3,015,523, 1–2–62, Cl. 308—9.
Semb, Joseph, J. R. Vaughan, Jr., and S. B. Davis, to American Cyanamid Co. Benzoylaminomethylpyridines. 3,037,-988, 6–5–62, Cl. 260—295.5.
Semelka, Carl J. Minnow pail attachment. 3,039,225, 6–19–62, Cl. 43—56.
Semelman, Jay R., to Lenkurt Electric Co., Inc. Permeability evaluator. 3,036,267, 5–22–62, Cl. 324—34.
Semenhuk, Michael H.: *See*—
Reif, Peter M., and Semenhuk. 3,035,835.
Semler, Gunther: *See*—
Thesing, Jan, Mohr, and Semler. 3,037,992.
Semler, Loren H., and C. E. Nyberg, to Metal Specialties Mfg. Co. Punch device. 3,015,161, 1–2–62, Cl. 30—363.
Semoes, John J. Cultivator. 3,018,833, 1–30–62, Cl. 172—159.
Semon, Howard W. Intermittent arming device for a mine. 3,015,272, 1–2–62, Cl. 102—16.
Semon, Lawrence J. Head set adapter for cord operated switchboards. 3,015,700, 1–2–62, Cl. 179—42.
Semon, Lawrence J. Telephone board lamp tester. 3,061,691, 10–30–62, Cl. 179—175.1.
Semon, William P. Article of manufacture with non-slip suction means. 3,043,025, 7–10–62, Cl. 36—59.
Semon, William P. Non-clogging cleat. 3,043,026, 7–10–62, Cl. 36—59.
Semonsen, Otto C. Radiator valves. 3,067,945, 12–11–62, Cl. 236—63.
Sempert, Max: *See*—
Wideroe, Rolf, and Sempert. 3,021,445.
Semple, Harry, Jr.: *See*—
Shearer, Robert, Semple, and Nifontoff. 3,045,592.
Semple, James, and R. G. Baird, to N. Slater Co. Ltd. Device for supporting or spacing cables. 3,070,651, 12–25–62, Cl. 174—128.
Semsel, Andrew M.: *See*—
Rauhut, Michael M., and Semsel. 3,060,241.
Rauhut, Michael M., and Semsel. 3,067,251.
Sen, Achintya K.: *See*—
Jones, Ralph, Jr., Price, and Sen. 3,066,141.
Sence, Leonard H., to Allis-Chalmers Mfg. Co. Liquid seal. 3,039,778, 6–19–62, Cl. 277—3.
Sendzimir, Bertha: *See*—
Sendzimir, Tadeusz. 3,049,948.
Sendzimir, Tadeusz, ¾ to T. and B. Sendzimir. Dual drive planetary reducing mills. 3,049,948, 8–21–62, Cl. 80—38.
Seney, John S., to E. I. du Pont de Nemours and Co. Heating apparatus. 3,037,106, 5–29–62, Cl. 219—20.
Seney, John S., to E. I. du Pont de Nemours and Co. Yarn splicer. 3,040,153, 6–19–62, Cl. 219—10.53.
Seney, John S., and R. Woodell, to E. I. du Pont de Nemours and Co. Continuous filament crepe yarn and fabric product. 3,052,268, 9–4–62, Cl. 139—426.
Senff, Paul W., to United Shoe Machinery Corp. Sole rounding machines. 3,019,461, 2–6–62, Cl. 12—17.2.
Seng Co., The: *See*—
Fox, Martin. 3,053,570.
Fox, Martin. 3,053,571.
Senger, Horst: *See*—
Hermann, Joachim, and Senger. 3,046,676.
Senger, Raymond J.: *See*—
Schwarze, Ralph W., and Senger. 3,057,648.
Senger, Werner I.: *See*—
Fibikar, Robert J., and Senger. 3,024,661.
Seniff, Russell W., R. N. Fracalossi, and P. Kangas. Dust guard. 3,022,097, 2–20–62, Cl. 286—6.
Senior, Bernard W.: *See*—
Custers, Jan F. H., Dyer, Senior, and Wedepohl. 3,061,-877.
Senior, Frank C.: *See*—
Udy, Marvin J., and Senior. 3,043,681.
Senior, George A., Jr., to Union Carbide Corp. Calcium trimethylolphenate. 3,023,252, 2–27–62, Cl. 260—621.
Senior, Norman, to Imperial Chemical Industries Ltd. Dry formulations of gibberellic acid compounds. 3,031,290, 4–24–62, Cl. 71—2.5.
Senior, William H.: *See*—
Bornemann, William J., Senior, and Wochner. 3,065,681.
Senior, William J., to Automotive Products Co. Ltd. Hatch covers. 3,039,527, 6–19–62, Cl. 160—188.
Senkbeil, Herman O., to The Dow Chemical Co. O-alkyl S-chloroalkyl phosphoramidothioates. 3,038,925, 6–12–62, Cl. 260—461.
Senkbeil, Herman O., to The Dow Chemical Co. O-(1-alkynylcycloalkyl) O,O-dialkyl phosphates and phosphorothioates. 3,041,366, 6–26–62, Cl. 260—461.
Senn Custom, Inc.: *See*—
Sinninger, Dwight V. 3,050,194.
Sinninger, Dwight V. 3,050,693.
Senn, Otto: *See*—
Merian, Ernest, Senn, and Wehrli. 3,050,516.
Senne, David L., to W. J. Voit Rubber Corp. Face plate with nose pincers. 3,027,561, 4–3–62, Cl. 2—14.
Senne, David L., to Voit Rubber Corp. Non-return valve for swim mask or face plate. 3,059,637, 10–23–62, Cl. 128—141.
Senne, Edgar P. Wall-installed vacuum cleaner. 3,023,447, 3–6–62, Cl. 15—314.
Sennewald, Kurt: *See*—
Vogt, Wilhelm, Gehrmann, and Sennewald. 3,048,639.
Vogt, Wilhelm, Gehrmann, and Sennewald. 3,067,241.
Vogt, Wilhelm, Weiden, Gehrmann, and Sennewald. 3,015,677.
Sennewald, Kurt, K. Born, H. Erpenbach, and G. Dobek, to Knapsack-Griesheim Aktiengesellschaft. Process for the preparation of unsaturated carboxylic acid nitriles. 3,022,332, 2–20–62, Cl. 260—464.
Sennewald, Kurt, G. Dobek, and H. Joest, to Knapsack-Griesheim Aktiengesellschaft. Process for dehydrating alpha-hydroxy-isobutyric acid esters. 3,022,336, 2–20–62, Cl. 260—486.
Sennewald, Kurt, A. Wolfram, H. Kolb, T. Sievers, and H. Hoyer, to Knapsack-Griesheim Aktiengesellschaft. Process for preparing trichloroacetic acid. 3,057,916, 10–9–62, Cl. 260—539.
Senning, Ake, and P. A. Astraqsson, to Svenska Aktiebolaget Gasaccumulator. Blood oxygenating apparatus. 3,065,748, 11–27–62, Cl. 128—214.
Sens, William H., to United Aircraft Corp. Pen-shaped nozzle with thrust deflector. 3,019,601, 2–6–62, Cl. 60—35.55.
Sensiper, Samuel: *See*—
Grabowski, Kenneth P., and Sensiper. 3,048,800.
Sensui, Nobuo, and S. Aoki, to Shibauro Kyodokogyo Kabushiki Kaisha. Automatic greasing device for vehicles. 3,022,863, 2–27–62, Cl. 184—7.
Senzani, Iro. Continuous packaging and package-ranging unit. 3,032,946, 5–8–62, Cl. 53—61.

Separator, Aktiebolaget: *See*—
Baum, Engelbert. 3,044,443.
Bergner, Nore E. 3,036,759.
Hass, John B. F. 3,065,733.
Palmqvist, Frederik T. E. 3,066,015.
Rönbeck, Arne I. 3,067,994.
Thylefors, Henric W. 3,052,401.
Wennerberg, Fritz J. 3,055,644.
Sepkoski Joseph J.: *See*—
Gobbo, Edward Sr., Lincoln, and Sepkoski. 3,065,751.
Seplavy, Louis R. Jackstand. 3,020,015, 2–6–62, Cl. 248—123.
Sepp, Oscar W., Jr., to M. Steinthal & Co., Inc. Form fitting parachute pack. 3,016,218, 1–9–62, Cl. 244—148.
Sepp, Oscar W., Jr., to M. Steinthal & Co., Inc. Parachutes. 3,041,022, 6–26–62, Cl. 244—152.
Seraphim, Donald P.: *See*—
Connell, Richard A., and Seraphim. 3,050,643.
Serbia, Gonzalo R., to Central Aguirre Sugar Co. Separation of dextrose and levulose. 3,044,904, 7–17–62, Cl. 127—46.
Serenate, Louis: *See*—
Weidenhammer, James A., Wroblewski, Watkins, Culveyhouse, and Serenate. 3,034,782.
Serenella, Joseph: *See*—
Richardson, William C. 3,062,545.
Seretny, Adolf. Manipulative toy hoop. 3,060,627, 10–30–62, Cl. 46—43.
Sergay, Dimitry B., to General Motors Corp. Self-leveling fluid spring. 3,031,180, 4–24–62, Cl. 267—34.
Sergay, Dimitry B., to General Motors Corp. Revolver gun with means for cutting the links of belted ammunition 3,046,842, 7–31–62, Cl. 89—33.
Sergi, Rocco J.: *See*—
Charlton, Ralph W., and Sergi. 3,040,210.
Sergi, Rocco J., to Congoleum-Nairn Inc. Water dispersed adhesive of rubber and a mixture of tackifiers, and process for preparing same. 3,015,638, 1–2–62, Cl. 260—24.
Serio, Anthony W. Vent knob. 3,047,186, 7–31–62, Cl. 220—44.
Serio, Anthony W. Detachable handle apparatus. 3,065,016, 11–20–62, Cl. 294—31.
Serio, Anthony W. Detachable handle apparatus. 3,065,017, 11–20–62, Cl. 294—31.
Serio, Anthony W. Detachable handle apparatus. 3,065,018, 11–20–62, Cl. 294—31.
Serlemitsos, Peter J.: *See*—
Detwiler, Harry S., Reese, and Serlemitsos. 3,015,206.
Serna, Alex. Transfer pantograph apparatus. 3,044,172, 7–17–62, Cl. 33—25.
Serniuk, George E.: *See*—
Tegge, Bruce R., Baldwin, and Serniuk. 3,023,191.
Serniuk, George E., to Esso Research and Engineering Co. Process for preparing 2-nitro-4-carboxybenzenesulfenyl chloride. 3,064,042, 11–13–62, Cl. 260—516.
Serniuk, George E., and I. Kuntz, to Esso Research and Engineering Co. Halogenation of rubbery copolymers. 3,033,832, 5–8–62, Cl. 260—78.4.
Serocki, Joseph S.: *See*—
Vicik, Otto A., and Serocki. 3,046,784.
Seron, Saundra B. Puppet assembly kit. 3,041,778, 7–3–62, Cl. 46—22.
Serota, Samuel: *See*—
Wall, Monroe E., Serota, and Kenney. 3,062,850.
Serpico, Sebastian J. Magnetic letter spinning game. 3,046,018, 7–24–62, Cl. 273—142.
Serrano Montijano, Emilio: *See*—
Castaño Muñoz, José, and Serrano Montijano. 3,064,660.
Serres, Carl, Jr., and E. K. Fields, to Standard Oil Co. Process for preparation of aromatic ketones. 3,038,940, 6–12–62, Cl. 260—590.
Serres, Carl, Jr., and E. K. Fields, to Standard Oil Co. Diarylmethanes. 3,043,886, 7–10–62, Cl. 260—649.
Serson, Paul H., to Her Majesty the Queen in right of Canada as represented by the Minister of Mines and Technical Surveys. Proton precession magnetometer. 3,070,745, 12–25–62, Cl. 324—.5.
Sertec Societe d'Etudes et de Recherches Techniques: *See*—
Seguenot, Gabriel J. 3,017,897.
Seguenot, Gabriel J. 3,045,697.
Serum-Werke Bernburg, VEB: *See*—
Behrens, Ulrich, and Ringpfeil. 3,044,940.
Servaud, Jean-Pierre: *See*—
Hellin, Michel, Coussemant, Lumbroso, and Servaud. 3,060,240.
Hellin, Michel, Coussemant, Lumbroso, Servaud, and Alexandre. 3,057,923.
Hellin, Michel, Coussemant, Lumbroso, Servaud, and Alexandre. 3,060,238.
Hellin, Michel, Coussemant, Lumbroso, Servaud, and Alexandre. 3,060,239.
Servco Equipment Co.: *See*—
Gates, Earl J. 3,017,233.
Servel, Inc.: *See*—
Dittman, Emil M., Coleman, and Steinhoff. 3,061,501.
Kirkman, Fredrick J. 3,015,719.
Warren, Robert A., Coleman, and Wilke. 3,056,849.
Wilke, Milton E., and Loverude. 3,061,659.
Servel, Inc., Burgess Battery Co. Division: *See*—
Coleman, Joseph J. 3,043,899.
Service Distributors, Inc.: *See*—
Taykmr,, Christopher G., and Barsocchini. 3,047,187.
Service (Engineers) Ltd.: *See*—
Dowley, Arthur. 3,052,007.
Service Metal Fabricators, Inc.: *See*—
Vani, James. 3,060,473.
Service National dit: Gaz de France: *See*—
Toche, Jean. 3,058,316.
Service Pipe Line Co.: *See*—
Hill, Arthur M. 3,070,056.
Hill, Arthur M. 3,070,065.
Servicised Products Corp.: *See*—
Fujihara, Yoshiki. 3,018,703.
Servier, Etienne: *See*—
Gancel, Pierre, and Servier. 3,059,731.
Servin, Robert S., to Robert Hosiery Mills, Inc. Slipper. 3,016,631, 1–16–62, Cl. 36—3.
Servin, Robert S., to Robert Hoisery Mills, Inc. Stretch type slipper. 3,032,898, 5–8–62, Cl. 36—9.
Servis Equipment Co.: *See*—
Collins, Johnnie C. 3,037,341.
Servo Corp. of America: *See*—
Baasch, Thomas L. 3,054,977.
Gallagher, Cornelius A. 3,028,484.
Hansel, Paul G. 3,023,410.
Hansel, Paul G., and Waller. 3,050,727.
Trunk, Edmund G. 3,031,657.
Waller, Herbert H. 3,023,370.
Waller, Herbert H. 3,055,002.
Waller, Herbert H. 3,061,671.
Waller, Herbert H. 3,067,342.
Westover, Thomas A., and Rosett. 3,054,898.
Willey, Frank G., and Westover. 3,018,555.
Servomechanisms, Inc.: *See*—
Huttenlocher, Henry J., Jr. 3,054,008.
Lohneiss, William H., and Boxer. 3,039,692.
Servos, Gerald H., to International Telephone & Telegraph Corp. Dielectric testing device. 3,069,620, 12–18–62, Cl. 324—54.
Serwer, Harry. Paint applying roller and method of making a cover therefor. 3,030,696, 4–24–62, Cl. 29—127.
Seseney, George T., and D. L. Hardy, to USECO, Inc. Potentiometer wiper reciprocating mechanism. 3,015,792, 1–2–62, Cl. 338—145.
Seshadri, Tiruvenkata R., and K. Chander, to Council of Scientific and Industrial Research. Removal of gossypol from cotton seed products. 3,043,856, 7–10–62, Cl. 260—425.
Sessions Clock Co., The: *See*—
Fox, William C. 3,016,686.
Sessions, J. H., & Son: *See*—
Willis, Grant N. 3,034,817.
Sessions, Stanley H.: *See*—
Strodt, John M., Webster, Steiner, and Sessions. 3,041,417.
Sessions, William C.: *See*—
Kaase, Robert W., and Sessions. 3,018,090.
Sestini, Amerigo. Electron discharge apparatus for treatment of plastic materials. 3,021,275, 2–13–62, Cl. 204—312.
Setchell, Barton T. Flyback transformer mountings. 3,035,210, 5–15–62, Cl. 317—101.
Seth, Robert B., d.b.a. Boston Chemical Products Co.: *See*—
Reiling, Thomas L. 3,053,867.
Setka, Raymond P.: *See*—
Carr, Edward W., and Setka. 3,027,912.
Seto, Mitsuru: *See*—
Fukuda, Shinro, Miyake, Akashi, and Seto. 3,026,215.
Seto, Thomas A., to Chas. Pfizer & Co., Inc. Process for preparing L-lysine by fermentation of the corresponding DL-lactam. 3,056,729, 10–2–62, Cl. 195—29.
Seton Corp.: *See*—
Jacob, Fraser B. 3,036,203.
Stieglitz, Hermann W., Jacob, and McIlvin. 3,036,204.
Stieglitz, Hermann W., Kaiser, and Moore. 3,036,202.
Setrin, Morton: *See*—
Merl, Kurt, and Setrin. 3,025,508.
Set Screw & Mfg. Co.: *See*—
Brown, Calvin O. 3,069,049.
Setser, Donald D., to The Dow Chemical Co. Method and apparatus for forming metal. 3,057,313, 10–9–62, Cl. 113—44.
Settele, Walter: *See*—
Studer, Martin, Settele, and Egger. 3,061,401.
Setterberg, Carl B., to United States Gypsum Co. Means for manufacturing mineral wool. 3,022,538, 2–27–62, Cl. 18—2.5.
Setterholm, Vance C.: *See*—
James, William L., and Setterholm. 3,027,759.
Settimi, Raymond J.: *See*—
Becker, Sylvan J., and Settimi. 3,017,977.
Settle, Haynes L.: *See*—
Terry, Trent B., and Watson. 3,066,418.
Settle, Joseph F., to General Electric Co. Tapered clamping ring for fan and improved hub design. 3,021,049, 2–13–62, Cl. 230—134.
Settlemire, Archie R.: *See*—
Gilreath, Roy U., and Settlemire. 3,068,594.
Settlemire, Eugene F., to Gas Register Corp. Sales registering device for gasoline pumps. 3,026,032, 3–20–62, Cl. 235—94.
Settles, James C., and D. D. Macklin, to Buckeye Steel Castings Co. Underframe structure and cushion mechanism for railway vehicles. 3,028,019, 4–3–62, Cl. 213—8.

Seubert, Oscar A. Valve wheel handle. 3,046,811, 7–31–62, Cl. 74—557.

Seubert, William A., to Union Carbide Corp. Large area film fabrication. 3,068,137, 12–11–62, Cl. 156—201.

Seubert, William A., and B. E. Pusey, to Union Carbide Corp. Inflatable plastic structure. 3,059,656, 10–23–62, Cl. 135—1.

Seuthe, August, Maschinenfabrik: *See*— Amtmann, Rudolf J. 3,054,162.

Sevebeck, Laurin L.: *See*— Crockett, Thomas W., Grunfelder, and Sevebeck. 3,061,798.

Seven, Marvin J. and R. P., and H. J. Venema. Phonocardiography apparatus. 3,052,756, 9–4–62, Cl. 179—1.

Seven, Raymond P.: *See*— Seven, Marvin J. and R. P., and Venema. 3,052,756.

Severance, Ralph H., to The Magnavox Co. Acceleration measuring device. 3,066,540, 12–4–62, Cl. 73—490.

Severance, Robert H., and W. Majske, to Severance Tool Industries, Inc. Method of manufacture of a file. 3,045,509, 7–24–62, Cl. 76—24.

Severance Tool Industries, Inc.: *See*— Hausser, Raymond E., Majeske, and Hubbard. 3,028,774. Severance, Robert H., and Majeske. 3,045,509.

Severini, Febo: *See*— Natta, Giulio, Beati, and Severini. 3,020,174.

Severson, James. Adhesively secured electrical devices. 3,029,303, 4–10–62, Cl. 174—97.

Severn, Clare F. Knock-down pallet carton. 3,026,015, 3–20–62, Cl. 229—41.

Severson, Asbjorn M.: *See*— Kompelien, Arlon D., and Severson. 3,040,737. Luch, James R., and Severson. 3,053,076.

Severson, Asbjorn M., and A. D. Kompellen, to Minneapolis-Honeywell Regulator Co. Control apparatus. 3,023,294, 2–27–62, Cl. 219—20.

Severson, Ole C., to The Viking Tool Co. Clamp-type holder for throw-away and indexible cutting inserts. 3,027,623, 4–3–62, Cl. 29—96.

Severson, Ole C., to The Viking Tool Co. Boring bars having indexible and disposable cutter inserts. 3,027,786, 4–3–62, Cl. 77—58.

Sevigne, Frank J., to Collett-Week Corp. Process for extracting vitamin A from source oils. 3,035,981, 5–22–62, Cl. 167—81.

Seward, Edgar C.: *See*— Kempel, Hubert, and Seward. 3,021,166.

Seward, Ruth E. Dress. 3,025,527, 3–20–62, Cl. 2—70.

Sewell, Philip H.: *See*— Attwood, William H., Sewell, and Wilkins. 3,031,153.

Sexauer, Russell E., to International Harvester Co. Hydraulic cylinder bypass relief valve mechanism. 3,059,622, 10–23–62, Cl. 121—38.

Sexsmith, David R.: *See*— Rassweiler, John H., and Sexsmith. 3,060,156. Rassweiler, John H., and Sexsmith. 3,068,213. Rassweiler, John H., and Sexsmith. 3,068,214.

Sexsmith, David R., to American Cyanamid Co. Quaternization of vinyl chloroacetate polymers. 3,050,506, 8–21–62, Cl. 260—85.7.

Sexson, Kenneth A.: *See*— Montgomery, Edna M., and Sexson. 3,046,161.

Sexton, Arthur R., to The Dow Chemical Co. Method of purification and crystallization of 2,2'-isopropylidene bis-(p-phenyleneoxy) diethanol. 3,051,760, 8–28–62, Cl. 260—613.

Sexton, Hatson J.: *See*— Frost, Raymond B., and Sexton. 3,024,046.

Sexton, Robert W., to American Air Filter Co., Inc. Gas cleaning method and apparatus. 3,022,859, 2–27–62, Cl. 183—16.

Sexton, William W. Tooth brushes. 3,065,480, 11–27–62, Cl. 15—172.

Seybold, Rene. Timbre-selector for a musical synthesizer. 3,056,326, 10–2–62, Cl. 84—1.19.

Seydel, Robert: *See*— Hausweiller, Arnold, Seydel, and Stroh. 3,029,276. Stroh, Rudolf, and Seydel. 3,051,762.

Seydel, Robert, T. Kempermann, W. Hahn, and R. Stroh, to Bayer Aktiengesellschaft, Farbenfabriken. Composition comprising rubber and 2,6-di-tertiary-butyl-3-methylphenol. 3,048,563, 8–7–62, Cl. 260—45.95.

Seyer, Frank H., and J. L. Marcotte, to Paper Mate Mfg. Co. Connector means for a tandem writing unit. 3,019,768, 2–6–62, Cl. 120—42.1.

Seyferth, Dietmar. Novel organo tin compounds. 3,070,615, 12–25–62, Cl. 260—429.7.

Seyffer, Max, to Rockwell G.m.b.H. Fast acting outboard motor mount. 3,039,723, 6–19–62, Cl. 248—4.

Seyfried, Arthur W., to Scovill Mfg. Co. Suction cleaner center support and cover locking means. 3,050,921, 8–28–62, Cl. 55—467.

Seyl, Robert G. Simplification in method of measuring corrosion of electronic conductors by nongaseous ionic conductors. 3,069,332, 12–18–62, Cl. 204—1.

Seyle, Harold W.: *See*— Humphrey, Michael W., Jones, and Seyle. 3,065,967.

Seyler, Ralph C., to E. I. du Pont de Nemours and Co. Whitening agent composition and process for its manufacture. 3,025,242, 3–13–62, Cl. 252—301.3.

Seymour, Douglas F., and J. Walton, to The English Electric Co. Ltd. Structure supporting linkwork assemblies. 3,032,844, 5–8–62, Cl. 24—16.

Seymour, James J., 25% to M. M. Marks, and 20% to M. I. Ross. Injection molding method and apparatus. 3,023,458, 3–6–62, Cl. 18—30.

Seymour, Malcolm: *See*— Chipman, Arthur D., and Seymour. 3,032,460.

Seymour, Malcolm, to The General Tire & Rubber Co. Foamed cushioning material for contoured chairs and method of making same. 3,023,430, 3–6–62, Cl. 5—345.

Seymour, Raymond E.: *See*— Chamberlain, Arthur G., and Seymour. 3,048,252.

Seymour, Raymond E., to Sperry Rand Corp. Selective interlock mechanism. 3,021,937, 2–20–62, Cl. 197—107.

Seymour, Raymond E., to Sperry Rand Corp. Perforated tape sensing and feeding means. 3,037,694, 6–5–62, Cl. 235—61.11.

Seymour, Raymond E., and E. T. Haraske, to Sperry Rand Corp. Keyboard interlock control means. 3,045,799, 7–24–62, Cl. 197—107.

Seymour, Robert D., to National Gypsum Co. Paint colorant. 3,068,111, 12–11–62, Cl. 106—177.

Seymour, Samuel L.: *See*— Duncan, James E., and Seymour. 3,020,803.

Seymour Tool & Engineering Co., Inc.: *See*— Steinwedel, Delmar C. 3,054,200.

Sferrazza, Peter J., to Sperry Rand Corp. Microwave attenuator switch. 3,018,454, 1–23–62, Cl. 333—98.

Sgricia, Mario T., to Rapistan-Keystone, Inc. Pusher for tow lines. 3,043,236, 7–10–62, Cl. 104—172.

Sgricia, Mario T., and R. W. Ferrari, to Rapistan-Keystone, Inc. Trolley control. 3,055,311, 9–25–62, Cl. 104—93.

Sguera, Giuseppe, to Officine Meccaniche e Fonderie A. Bosco S.p.A. Blade scraping device for unloading the centrifugal hydroextractors. 3,036,714, 5–29–62, Cl. 210—375.

Shaar, Edward C., to The Delman Co. Cleaning solvent reservoir cap. 3,025,827, 3–20–62, Cl. 116—133.

Shabad, Zygmund: *See*— Molloy, Martin, and Shabad. 3,054,863.

Shaboo, Edward Y.: *See*— Shaboo, Joseph S. and E. Y. 3,062,543.

Shaboo, Joseph S. and E. Y. Exercising device. 3,062,543, 11–6–62, Cl. 272—80.

Shabram, Lyle F., to Consolidated Thermoplastics Co. Rollchanging mechanism. 3,069,106, 12–18–62, Cl. 242—65.

Shabram, Lyle F., to Consolidated Thermoplastics Co. Stacking machine. 3,070,212, 12–25–62, Cl. 198—35.

Shachat, Norman, to Rohm & Haas Co. Diacetylene complex. 3,036,089, 5–22–62, Cl. 260—326.5.

Shackel, Joseph T. Utility carts. 3,037,786, 6–5–62, Cl. 280—35.

Shackelford, Byrd L. Automatically operating tail gate latch for tilting dump trucks. 3,055,711, 9–25–62, Cl. 298—23.

Shackell, Arthur, ½ to The Bifurcated & Tubular Rivet Co. Ltd. Riveting machines. 3,034,676, 5–15–62, Cl. 218—2.

Shackleton, James M.: *See*— Bremer, Fred C. 3,043,506.

Shacklett, Comer D.: *See*— Oberth, Adolf E., and Shacklett. 3,067,035.

Shacklett, Lillian M.: *See*— Shacklett, William E. 3,030,883.

Shacklett, Walter K.: *See*— Shacklett, William E. 3,030,883.

Shacklett, William E., ¼ each to I. and D. M. Fleischer, L. M. and W. K. Shacklett. Engraver's automatic rotary press. 3,030,883, 4–24–62, Cl. 101—156.

Shackman, Norman: *See*— Cataldo, John B., Thomas, Mead, and Shackman. 3,048,672.

Shackman, Norman, to I-T-E Circuit Breaker Co. Method for cladding an extruded stud. 3,049,791, 8–21–62, Cl. 29—155.55.

Shada, Joseph J., to The Bellows Co. Liquid mist generating device. 3,064,760, 11–20–62, Cl. 184—55.

Shade, Philip V.: *See*— Elssmann, Kurt W., and Shade. 3,059,172.

Shader, Benjamin A.: *See*— Jennings, Marvin D., and Shader. 3,065,879.

Shader, Benjamin A., to International Harvester Co. Cultivator. 3,061,021, 10–30–62, Cl. 172—750.

Shader, Benjamin A., and M. D. Jennings, to International Harvester Co. Cultivator spring trip. 3,049,180, 8–14–62, Cl. 172—268.

Shafer, Arnold L., to National Castings Co. Car coupler shield. 3,025,973, 3–20–62, Cl. 213—1.

Shafer, Hal J., Jr.: *See*— Blank, John M., and Shafer. 3,027,990.

Shafer, Homer J., to Shafer Valve Co. Modulating control for hydraulic motor. 3,024,809, 3–13–62, Cl. 137—622.

Shafer, James A., to National Castings Co. Variable pressure brake rigging. 3,023,855, 3–6–62, Cl. 188—195.

Shafer, Olin J.: *See*— King, Carl F., Jr., and Schroeder. 3,036,872.

Shafer, Richard C.: *See*— Monahan, Jack J., and Shafer. 3,045,715.

Shafer, Richard E., to Radio Corp. of America. Mounting for electrical elements. 3,020,450, 2–6–62, Cl. 317—99.

Shafer, Robert J.: *See*— Lasiewicz, Thaddeus W., and Shafer. 3,039,513.

Shafer Valve Co.: *See*— Johnson, George T. 3,055,345. Shafer, Homer J. 3,024,809.

Shafer, Wayne A., Jr.: *See*—
Phillips, Harry, Maciejowski, Shafer, Tucker, and Fuller. 3,015,594.

Shaffer, Archie, to Shaffer Bros. Camera and magazine. 3,043,187, 7–10–62, Cl. 88—17.

Shaffer Bros.: *See*—
Shaffer, Archie. 3,043,187.

Shaffer, Clifford A. Kaleidoscopes. 3,066,571, 12–4–62, Cl. 88—15.

Shaffer, Donald U. Wave motion actuated hydraulic pump. 3,030,893, 4–24–62, Cl. 103—68.

Shaffer, Donald U. Wave motion actuated pump. 3,040,667, 6–26–62, Cl. 103—70.

Shaffer, Francis N.: *See*—
Mooney, Richard W., and Shaffer. 3,043,781.

Shaffer, George E., Jr., and G. W. Schneider, Jr., to Milton Roy Co. Method of preparing a chemical blank sample. 3,015,544, 1–2–62, Cl. 23—230.

Shaffer, James H.: *See*—
Grimes, Warren R., Shaffer, and Watson. 3,063,794.

Shaffer, Joseph L. Device to serve rope ends. 3,031,561, 4–24–62, Cl. 219—21.

Shaffer Manufacturers, Inc.: *See*—
Bushong, Forest B. 3,062,578.

Shaffer, Marcia C.: *See*—
Waller, Richard C., and Shaffer. 3,034,920.

Shaffer, Paul C., K. E. Stratton, and L. P. Zidar, to Sylvania Electric Products Inc. Article positioning device. 3,034,-778, 5–15–62, Cl. 269—142.

Shaffer, Peter T. B.: *See*—
Lake, Donald B., and Shaffer. 3,048,546.

Shaffer, Robert A., and J. L. McIntyre, to Westinghouse Electric Corp. Electron discharge device. 3,040,200, 6–19–62, Cl. 313—65.

Shaffer, Robert C. Underwater propulsion system. 3,062,002, 11–6–62, Cl. 60—35.5.

Shaffer, Robert J. Plant package. 3,028,005, 4–3–62, Cl. 206—65.

Shaffer, Stewart M., to The Bendix Corp. Printed circuit board restraining means. 3,059,123, 10–16–62, Cl. 317—101.

Shaffer Tool Works: *See*—
Gibson, Wilfred C., McClintock, and Miller. 3,035,640.
Gibson, Wilfred C., and Schweitzer. 3,023,994.
Koppl, Ernest. 3,057,418.
McClintock, Ross A. 3,023,809.
Wilde, Arthur E. 3,023,012.
Wilde, Arthur E. 3,029,083.

Shaffer, Walter M., to Towmotor Corp. Hydraulic system for narrow aisle lift truck. 3,039,268, 6–19–62, Cl. 60—53.

Shaffer, Walter M., to Towmotor Corp. Narrow-aisle lift truck. 3,039,638, 6–19–62, Cl. 214—130.

Shaffer, William E.: *See*—
Baker, Adolph A., and Shaffer. 3,066,245.

Shaffer, William R., to Wald Industries, Inc. Road striping machine. 3,047,647, 4–3–62, Cl. 33—46.

Shaheen, Joseph M.: *See*—
Chipman, Arthur D., and Shaheen. 3,051,598.

Shajenko, Petro. Welding process and apparatus. 3,023,303, 2–27–62, Cl. 219—130.

Shakeshaft, Frederick, to Babcock & Wilcox Ltd. Steam turbine power plant. 3,016,711, 1–16–62, Cl. 60—67.

Shakespeare Co.: *See*—
Clickner, Earle D. 3,018,979.

Shalek, Joel E., to Sanborn Co. Floating lock for a shaft and the like. 3,053,110, 9–11–62, Cl. 74—504.

Shaler, Richard G., and E. L. Mcadam, to American Tansul Co. Wort treatment with clay and enzyme. 3,066,026, 11–27–62, Cl. 99—52.

Shalev, Baruch. Combination safety razor and shaving cream dispenser. 3,045,343, 7–24–62, Cl. 30—41.

Shalgren, Ernest W., to Western Electric Co., Inc. Two-hand pneumatic control and signalling system. 3,024,768, 3–13–62. Cl. 121—38.

Shalit, Harold: *See*—
Lorz, Waldemar, Mills, and Shalit. 3,064,062.

Shallenberg, Robert L., to International Harvester Co. Means for operating multiple drive units. 3,061,030, 10–30–62, Cl. 180—12.

Shallow, Eric W.: *See*—
Perry, Gerald H., Shallow, and Hoffman. 3,059,225.

Shalloway, Arthur M., to General Dynamics Corp. Pulse operated analog-to-digital converter. 3,028,590, 4–3–62, Cl. 340—347.

Shamaiengar, Muthu, to Waverly Oil Works Co. Lubricating composition. 3,028,335, 4–3–62, Cl. 252—33.3.

Shamban, W. S., & Co.: *See*—
Chaffin, Frank R. 3,068,513.

Shames, Albert A., to United States of America, Army. Collapsible monorail track. 3,051,094, 8–28–62, Cl. 104—126.

Shames, Harold: *See*—
Shames, Sidney J. and H. 3,032,357.
Shames, Sidney J. and H. 3,064,678.

Shames, Sidney J. and H. Flexible shower arm. 3,032,857, 5–1–62. Cl. 285—114.

Shames, Sidney J. and H. Washing machine coupling with external bleed. 3,064,678, 11–20–62, Cl. 137—562.

Shamos, Morris H., to Tung-Sol Electric Inc. Radiation alarm or the like. 3,056,123, 9–25–62, Cl. 340—237.

Shampaine, Hyman R., R. T. Adolphson, and J. Douglass, Jr.; said Adolphson and said Douglass assor. to said Shampaine. Hydraulically operated elevating mechanisms for operating tables and the like. 3,028,732, 4–10–62, Cl. 60—51.

Shampaine, Hyman R., R. T. Adolphson, and J. Douglass, Jr.; said Adolphson and said Douglass assors. to said Shampaine. Head-end control surgical operating table. 3,046,071, 7–24–62, Cl. 311—7.

Shampaine Industries, Inc.: *See*—
Cahn, Bernard. 3,069,167.
Chervenka, George R. 3,065,344.
Douglass, John, Jr., and Chervenka. 3,046,072.
Matteson, Emory F. 3,046,043.
Smith, William H., Frohner, and Adolphson. 3,070,086.

Shanahan, Robert J.: *See*—
Post, Lloyd P., and Shanahan. 3,020,707.

Shanahan, William J., to Skiatron Electronics & Television Corp. Number or symbol generator. 3,060,419, 10–23–62, Cl. 340—324.

Shand, Errol B., and C. C. Stanton, to Corning Glass Works. Method of making an abraded neck ampoule. 3,063,267, 11–13–62, Cl. 65—61.

Shand, George: *See*—
Atkinson, George G., and Shand. 3,027,544.

Shand and Jurs Co.: *See*—
Fletcher, Vernon A. 3,037,386.
Jurs, Albert E., Jr., and Veiffort. 3,045,488.
Jurs, Peter C., Van Overveen, and Fletcher. 3,055,629.
Koehne, Karl H. 3,057,199.

Shandel, Fred. Hook and eye choker assembly. 3,022,104, 2–20–62. Cl. 294—74.

Shandel, Fred. Device for removing wheel nuts and bolts. 3,069,945, 12–25–62, Cl. 81—53.

Shang, Jeng C., to Union Tank Car Co. Elevated tank. 3,050,210, 8–21–62, Cl. 220—18.

Shank, David L., to National Gypsum Co. Partition structure. 3,029,911, 4–17–62, Cl. 189—34.

Shank, Herbert C., Jr., to Anchor Hocking Glass Corp. Machine for decorating glass articles. 3,031,370, 4–24–62, Cl. 156—559.

Shankland, Vern W. Tie-down devices. 3,054,151, 9–18–62, Cl. 20—1.

Shanklin, Edward M.: *See*—
Bohannon, David L., Parnell, Shanklin, Williamson, and Nagel. 3,061,892.

Shanks, George F. Container structure. 3,057,524, 10–9–62, Cl. 222—430.

Shanks, John L., to Jersey Production Research Co. Circuit responsive to input wave zero crossings producing rectangular pulses of amplitude. 3,063,014, 11–6–62, Cl. 328—28.

Shanks, Norman: *See*—
Edwards, Harry, Partridge, Shanks, and Wilcock. 3,042,-311.

Shanley, Edward S.: *See*—
Rising, Donald B., and Shanley. 3,056,709.

Shanley, Edward S., and D. B. Rising, to Garlock Inc. Bearing. 3,056,637, 10–2–62, Cl. 308—238.

Shannon, Arthur V., to Pacon Research & Development Corp. Apparatus for making heat sealable wrapper. 3,030,915, 4–24–62, Cl. 93—205.

Shannon, James F., C. Tate, and J. Fulton, to Associated Electrical Industries Ltd. Epicyclic gearing. 3,026,745, 3–27–62, Cl. 74—801.

Shannon, Melvin L. Fishing tackle. 3,031,788, 5–1–62, Cl. 43—4.

Shannon, Raymond M., to Avco Corp. Spectrum generator. 3,049,626, 8–14–62, Cl. 307—88.5.

Shannon, Richard F.: *See*—
Morgan, Willard L., Morrison, and Shannon. 3,025,202.
Morgan, Willard L., Morrison, and Shannon. 3,062,682.
Slayter, Games, Morgan, Morrison, and Shannon. 3,050,-427.

Shannon, Richard F., to Owens-Corning Fiberglas Corp. Production of reinforced articles. 3,056,686, 10–2–62, Cl. 106—85.

Shannon, Richard F., W. L. Morgan, and P. W. Sullivan, to Owens-Corning Fiberglas Corp. Aqueous binder composition of phenol-formaldehyde condensate, aluminum sulfate and mineral oil, and glass fiber coated therewith. 3,039,-981, 6–19–62, Cl. 260—29.3.

Shannon, Robert H., and H. E. Williamson, to United Engineers & Constructors Inc. Control means for a boiling water nuclear reactor power system. 3,061,533, 10–30–62, Cl. 204—193.2.

Shannon, William H.: *See*—
Harrer, Paul H., and Shannon. 3,016,675.

Shanok, Abraham, V. and J. P. Decorative trim strip assembly. 3,016,590, 1–16–62, Cl. 24—73.

Shanok, Jesse P.: *See*—
Shanok, Abraham, V. and J. P. 3,016,590.

Shanok, Victor: *See*—
Shanok, Abraham, V. and J. P. 3,016,590.

Shansky, David, and F. V. Alla, to Minneapolis-Honeywell Regulator Co. Protected magnetic core element. 3,060,353, 10–23–62, Cl. 317—158.

Shanty, Frank: *See*—
Brumfield, Richard S., Dwaayer, Shanty, and Shoemaker. 3,049,121.

Shapero, Wallace H., to Continental Can Co., Inc. Dipping apparatus for fabricating flexible containers. 3,022,540, 2–27–62, Cl. 18—24.

Shapin, Theodore, Jr. Comparing apparatus. 3,049,693, 8–14–62, Cl. 340—149.

Shapiro, Albert J., and M. M. Kuritsky, to General Precision Inc. Gyroscope error computer for aircraft and other vehicles. 3,029,016, 4–10–62, Cl. 235—61.

Shapiro, Edward : *See—*
De Leo, Felix R., and Shapiro. 3,033,797.
Shapiro, Elliot : *See—*
Gould, David H., and Shapiro. 3,045,033.
Shapiro, Elliot L., and E. P. Oliveto, to Schering Corp. Selective reduction of steroidal dienones. 3,042,670, 7–3–62, Cl. 260—239.55.
Shapiro, Eugene B. : *See—*
Bachli, Herman, and Shapiro. 3,059,242.
Shapiro, Gustave, to United States of America, Navy. High frequency coaxial coupling. 3,045,202, 7–17–62, Cl. 339—64.
Shapiro, Harold : *See—*
Couch, Dwight E., Shapiro, Brenner, and Connor. 3,046,205.
Shapiro, Harold Z. : *See—*
Kibler, Frederick, and Shapiro. 3,051,475.
Shapiro, Haskell, to Borg-Warner Corp. Force measuring system. 3,019,641, 2–6–62, Cl. 73—141.
Shapiro, Henry, to Curtiss-Wright Corp., Propulsion Products Division. Vibration detector and measuring instrument. 3,058,339, 10–16–62, Cl. 73—71.4.
Shapiro, Henry, to Waste King Corp. Sprocket drive. 3,066,548, 12–4–62, Cl. 74—243.
Shapiro, Hymin : *See—*
Brown, Jerome E., De Witt, and Shapiro. 3,041,155.
Brown, Jerome E., Dewitt, and Shapiro. 3,060,212.
Cook, Shirl E., and Shapiro. 3,021,350.
Cook, Shirl E., and Shapiro. 3,038,916.
Cook, Shirl E., and Shapiro. 3,038,917.
Cook, Shirl E., and Shapiro. 3,038,918.
Cook, Shirl E., and Shapiro. 3,038,919.
Johnston, James D., Schroll, and Shapiro. 3,037,038.
Podall, Harold E., and Shapiro. 3,053,628.
Shapiro, Hymin, E. G. De Witt, and J. E. Brown, to Ethyl Corp. Complex bimetallic cyclopentadienyl organometallic compounds. 3,030,398, 4–17–62, Cl. 260—429.9.
Shapiro, Jonas M. : *See—*
Barton, Martin L., and Shapiro. 3,031,527.
Tulgan, Stanley S., and Shapiro. 3,064,215.
Tytlusky, Alexander, Shapiro, and Tulgan. 3,031,619.
Shapiro, Joseph : *See—*
Morse, Raymond L. 3,028,029.
Shapiro, Joseph. Ice cream cone package. 3,039,881, 6–19–62, Cl. 99—180.
Shapiro, Justin J., C. Deminet, and C. E. Camenson, to Microchemical Specities Co. Liquid dispensing devices. 3,067,915 .12–11–62, Cl. 222—255.
Shapiro, Lawrence S., to Clowd, Inc. Illuminating means. 3,023,305, 2–27–62, Cl. 240—2.
Shapiro, Lazarus C. Mercury relay. 3,040,147, 6–19–62, Cl. 200—12.
Shapiro, Martin. Ankle supporter. 3,028,861, 4–10–62, Cl. 128—166.
Shapiro, Nathan : *See—*
Turdo, Joseph C., and Shapiro. 3,059,771.
Shapiro, Seymour L. : *See—*
Freedman, Louis, and Shapiro. 3,027,301.
Geiger, Karl, Shapiro, and Freedman. 3,059,029.
Shapiro, Seymour L., and L. Freedman, to U.S. Vitamin & Pharmaceutical Corp. N-(carbanilido)-3-oxypyridyl betaines. 3,020,285, 2–6–62, Cl. 260—295.
Shapiro, Seymour L., and L. Freedman, to U.S. Vitamin & Pharmaceutical Corp. 3-[-(p-aminophenyl)ethyl]-5-methyl-oxazolidine-2,4-dione. 3,046,281, 7–24–62 Cl. 260—307.
Shapiro, Seymour L., L. Freedman, and H. Soloway, to U.S. Vitamin & Pharmaceutical Corp. Substituted diphenylchloracetates. 3,051,705, 8–28–62, Cl. 260—247.2.
Shapiro, Seymour L., and L. Freedman, to U.S. Vitamin & Pharmaceutical Corp. Substituted amino-3-(4- and 5-indanoxy)-propane-2-ols. 3,051,709, 8–28–62, Cl. 260—268.
Shapiro, Seymour L., L. Freedman, and I. M. Rose, to U.S. Vitamin & Pharmaceutical Corp. Process for preparing 3-(aminoalkyl)-oxazolidine-2,4-diones. 3,054,794, 9–18–62, Cl. 260—247.2.
Shapiro, Seymour L., and L. Freedman, to U.S. Vitamin & Pharmaceutical Corp. Pyridylethylated *d-α*-methylphenethylamines. 3,055,906, 9–25–62, Cl. 260—295.
Shapiro, Seymour L., L. Freedman, and K. Weinberg, to U.S. Vitamin and Pharmaceutical Corp. N-(*β*-hydroxy *β*-[substituted phenyl]) ethyl-3-hydroxypiperidines. 3,056,797, 10–2–62, Cl. 260—294.7.
Shapiro, Seymour L., and L. Freedman, to U.S. Vitamin & Pharmaceutical Corp. Method for treatment of mental disease. 3,057,780, 10–9–62, Cl. 167—65.
Shapiro, Seymour L., and L. Freedman, to U. S. Vitamin & Pharmaceutical Corp. 1-[(2-amino-4-substituted amino-1,3,5-triazinyl-6-yl)methyl], 1,1-dialkyl hydrazinium salts. 3,062,819, 11–6–62, Cl. 260—249.9.
Shapiro, Seymour L., and L. Freedman, to U.S. Vitamin and Pharmaceutical Corp. Quaternary ammonium salts of *ω*-(N-methyl-2,6-dimethylanilino) alkyl halides. 3,068,235, 12–11–62, Cl. 260—293.
Shapiro, Seymour L., L. Freedman, and H. Soloway, to U.S. Vitamin & Pharmaceutical Corp. Process for obtaining an anesthetic effect and composition. 3,069,315, 12–18–62, Cl. 167—52.
Shapiro, William J. Load dropping toy with magnetic means. 3,027,683, 4–3–62, Cl. 46—242.
Shapleigh, James H., to Hercules Powder Co. Tubular furnace. 3,063,814, 11–13–62, Cl. 23—277.
Shappell, Harold M. : *See—*
Chinn, Hyman G., and Shappell. 3,052,565.
Hessenthaler, Walter H., and Shappell. 3,034,941.
Shappell, Richard L., to American Can Co. Insulated container. 3,049,277, 8–14–62, Cl. 229—1.5.
Shappell, Stanley C., to Sylvania Electric Products Inc. Transfer synchronizer. 3,045,805, 7–24–62, Cl. 198—76.
Shar Dispersion Equipment Co., Inc. : *See—*
Hoffman, Harold J. 3,018,666.
Schmitt, Lawrence A., Jr. 3,044,750.
Sharawara, Walter H. Pre-shave lotion. 3,063,907, 11–13–62, Cl. 167—85.
Sharaway, Alan H. Market cart. 3,036,722, 5–29–62, Cl. 214—83.36.
Sharbaugh, John E. : *See—*
Sherman, Jerome. Sharbaugh, Fauth, Palladino, and De Huff. 3,060,111.
Share, Barnett, to Complete Machinery & Equipment Co., Inc. Coin receiving and collecting assembly for coin controlled devices. 3,034,705, 5–15–62, Cl. 232—16.
Share, Irwin : *See—*
Zimmerman, Harry, and Share. 3,067,394.
Sharek, Clement W., to Corning Glass Works. Display device. 3,065,353, 11–20–62, Cl. 250—213.
Sharfe, Louis, and O. Schlinger. Posturizing device for beds and the like. 3,032,782 5–8–62, Cl. 5—354.
Sharin, Samuel, T. R. Sheridan, A. Liguori, and H. J. Kishi, to Radio Corp. of America. Control circuit. 3,055,978, 9–25–62. Cl. 178—23
Sharma, Shri P. N. : *See—*
Chipalkatti, V. B., and H. R., and Sharma. 3,066,998.
Sharman, Lewis J. : *See—*
Sefton, Verner B., and Sharman. 3,031,263.
Sharon Steel Corp. : *See—*
Gordon, Howard A. 3,061,297.
Leflingwell, Wallace B., and Evans. 3,067,072.
Oswald, Raymond C. 3,038,423.
Sharon Tube Co. : *See—*
Wagner, August J. 3,054,605.
Sharon, Wilfred J., and M. Luty, to Aeroquip Corp. Anodizing rack. 3,035,999, 5–22–62, Cl. 204—297.
Sharp, Bernard : *See—*
Levy, Sidney E., Blumenfeld, and Sharp. 3,028,927.
Sharp, Carl R., and J. E. Streeter, to Rain Bird Sprinkler Mfg. Corp. Partial circle water sprinklers. 3,022,012, 2–20–62, Cl. 239—230.
Sharp, Chester L., to D. O. Johnson and L. W. Fagg, d.b.a. Johnson-Fagg Engineering Co. Pressure responsive plunger ring. 3,036,874, 5–29–62, Cl. 309—52.
Sharp, Dexter B., and G. H. Birum, to Monsanto Chemical Co. Oxidation process. 3,027,395, 3–27–62, Cl. 260—461.
Sharp, Everett H., to Dana Corp. Universal joint. 3,017,756, 1–23–62, Cl. 64—21.
Sharp, Frank W. : *See—*
Zillman, Jack H., Wagoner, Williams, and Sharp. 3,027,849.
Sharp, Frank W., and E. L. Medford, Jr., to Otis Engineering Corp. Expendable sealing plug. 3,042,116, 7–3–62, Cl. 166—179.
Sharp, John J., to International Computers and Tabulators Ltd. Information storage systems. 3,016,523, 1–9–62, Cl. 340—174.1.
Sharp, John J., to International Computers and Tabulators Ltd. Magnetic reading and recording. 3,048,831, 8–7–62, Cl. 340—174.1.
Sharp, Joseph C., to Midwestern Mfg. Co. Composite side boom. 3,055,511, 9–25–62, Cl. 212—8.
Sharp, Leonard W. D., and D. J. Blight, to The Plessey Co. Ltd. Electric rotary switch indexing means. 3,048,684, 8–7–62, Cl. 200—166.
Sharp, Martin. Dental apparatus. 3,037,283, 6–5–62, Cl. 32—67.
Sharp, Martin. Dental apparatus. 3,060,579, 10–30–62, Cl. 32—20.
Sharp, Rodman A., and M. S. Eichen, to General Dynamics Corp. Liquid control device. 3,049,887, 8–21–62, Cl. 62—55.
Sharp, Warren D. : *See—*
McCluer, Kenneth L., and Sharp. 3,025,021.
Sharpe, Frederick P., to Kelsey-Hayes Co. Bearing cup assembling machine. 3,023,495, 4–17–62, Cl. 29—201.
Sharpe, Frederick P., to Kelsey-Hayes Co. Stud inserting machine. 3,046,643, 7–31–62, Cl. 29—208.
Sharpe, Frederick P., to Kelsey-Hayes Co. Automatic rim loader. 3,061,115, 10–30–62, Cl. 214—1.
Sharpe, Frederick P., to Kelsey-Hayes Co. Hopper with mechanism for feeding properly oriented annular articles. 3,061,145, 10–30–62, Cl. 221—166.
Sharpe, Frederick P., to Kelsey-Hayes Co. Sand ring machine. 3,067,472, 12–11–62. Cl. 22—10.
Sharpe, Frederick P., to Kelsey-Hayes Co. Automatic rim loader. 3,067,708, 12–11–62, Cl. 113—38.
Sharpe, Paul D. : *See—*
Nelson, Lawrence B., and Sharpe. 3,060,136.
Sharpe, Philip B. Astronomical device. 3,024,542, 3–13–62, Cl. 35—47.
Sharpe, Philip B. Fan and lamp combined. 3,039,678, 6–19–62, Cl. 230—249.5.
Sharpe, Verlos G., to General Motors Corp. Refrigerator lighting arrangement. 3,028,208, 4–3–62, Cl. 312—223.

Sharpe, Verlos G., to General Motors Corp. Laundry appliance with clutch. 3,062,346, 11–6–62, Cl. 192—48.

Sharples, Arthur E. Laundering device. 3,039,287, 6–19–62, Cl. 68—214.

Sharples Corp., The: *See—*
Brautigam, Frank C. 3,065,119.
Downing, Francis P. 3,047,214.
Downing, Francis P., and Alberts. 3,020,160.
Gooch, Fred P. 3,061,181.
Sharples, Thomas D. 3,015,391.
Sharples, Thomas D. 3,048,271.
Sharples, Thomas D. 3,064,454.

Sharples, Geoffrey F., and G. D. Walley, to The English Electric Co. Ltd. Brake parachute attachments to aircraft. 3,058,702, 10–16–62, Cl. 244—110.

Sharples, Thomas D., to The Sharples Corp. Classification process and apparatus. 3,015,391, 1–2–62, Cl. 209—144.

Sharples, Thomas D., to The Sharples Corp. Particle classification. 3,048,271, 8–7–62, Cl. 209—144.

Sharples, Thomas D. to The Sharples Corp. Overload release coupling. 3,064,454, 11–20–62, Cl. 64—28.

Sharretts, Douglas N.: *See—*
Jeffords, Joseph. 3,038,653.

Shatterproof Glass Corp.: *See—*
Jendrisak, Joseph E. 3,026,617.

Shattock, Charles F. B., and C. J. Stone, to Westinghouse Brake & Signal Co. Ltd. Dual station brake control system. 3,018,137, 1–23–62, Cl. 303—14.

Shattuck, Ewart H.: *See—*
Rainard, Leo W., and Shattuck. 3,058,167.

Shattuck, Owen M., ⅛ to M. W. Nixon and F. Howard, Jr., and ⅛ to F. S. Hertzig. Electric circuit control mechanism for emergency transmitting device. 3,061,719, 10–30–62, Cl. 250—17.

Shaukis, Arthur J. Checking out system. 3,039,564, 6–19–62, Cl. 186—1.

Shaul, Theodore E.: *See—*
Gerstenmaier, John H., Leo, Miller, and Shaul. 3,042,974.

Shaul, Theodore E., to The Goodyear Tire & Rubber Co. Apparatus and method for manufacturing mats. 3,042,969, 7–10–62, Cl. 18—19.

Shavel, John, Jr., and G. Bobowski, to Warner-Lambert Pharmaceutical Co. 17-yohimbol derivatives. 3,046,279, 7–24–62, Cl. 260—287.

Shavel, John, Jr., and G. Bobowski, to Warner-Lambert Pharmaceutical Co. 17-substituted yohimbenes and process therefor. 3,048,593, 8–7–62, Cl. 260—288.

Shaver, Jay C., to Commercial Controls Corp. Information translation system. 3,039,679, 6–19–62, Cl. 234—36.

Shaver, John H., Jr. Light reflector. 3,065,341, 11–20–62, Cl. 240—11.35.

Shaver, Kenneth J.: *See—*
Perry, Randolph, Jr., and Shaver. 3,065,058.

Shaver, Kenneth J., to Monsanto Chemical Co. Alkali metal polyphosphatosulfates and preparation thereof. 3,048,471, 8–7–62, Cl. 23—106.

Shaver, Robert G.: *See—*
Avtges, James A., Harrison, and Shaver. 3,047,370.
Rand, William M., Rice, Shaver, and Whitney. 3,035,903.

Shaver, William C.: *See—*
Dennis, Clement O., and Shaver. 3,067,457.

Shaver, William R., to Pullman Inc. Compartmentizer mounting and locking arrangement. 3,029,747, 4–17–62, Cl. 105—376.

Shavit, Arthur: *See—*
Dean, Robert C., Jr., and Shavit. 3,061,273.

Shaw, Arnold E., ½ to C. J. Curtiss. Sinker applying device. 3,067,499, 12–11–62, Cl. 29—212.

Shaw, Bert J., to Shaw's Travel Tric, Inc. Portable ramp for wheel chairs. 3,030,645, 4–24–62, Cl. 14—72.

Shaw, Bracklee: *See—*
McCarty, Lewis C., Jr. 3,065,799.

Shaw, Charles H.: *See—*
Foreman, William T., and Shaw. 3,015,253.

Shaw, Charles J. Boat loading means. 3,044,643, 7–17–62, Cl. 214—450.

Shaw, Charles T.: *See—*
Bebout, Donald R., and Shaw. 3,069,065.

Shaw, Clifford, to Zirconal Processes Ltd. Electric arc furnaces. 3,057,937, 10–9–62, Cl. 13—35.

Shaw, Clifford, to Zirconal Processes Ltd. Method of manufacturing composite refractory objects. 3,060,543, 10–30–62, Cl. 25—156.

Shaw, Clifford, to Shaw Process Development Corp. Electric arc furnaces. 3,061,655, 10–30–62, Cl. 13—31.

Shaw, David N.: *See—*
Moquin, Paul L., Nicholas, and Shaw. 3,061,177.
Nicholas, Andrew J., and Shaw. 3,061,176.
Warner, Benjamin F., Tonkin, and Shaw. 3,066,728.

Shaw, Dorothy N. Charcoal quench device for broilers. 3,060,919, 10–30–62, Cl. 126—25.

Shaw, Edward P. Line sampling valve. 3,034,359, 5–15–62, Cl. 73—422.

Shaw, George B.: *See—*
De Lorean, John Z., Shaw, and Short. 3,021,715.

Shaw, George C.: *See—*
Rizzi, Peter A., and Shaw. 3,058,072.

Shaw, Gerald J., to Outboard Marine Corp. Mower with resiliently mounted engine. 3,056,249, 10–2–62, Cl. 56—25.4.

Shaw, Gerald J., to Outboard Marine Corp. Rotary mower with grass catcher. 3,065,588, 11–27–62, Cl. 56—25.4.

Shaw, Gilbert. Apparatus and method for orienting and mixing of synthetic fibers. 3,022,132, 2–20–62, Cl. 18—54.

Shaw, Harmon L., and F. E. Frost, to Perfecting Service Co. Rotary fluid connector with non-communicating passageways. 3,061,337, 10–30–62, Cl. 285—134.

Shaw, Harold F., to Thayer, Inc. Folding playpen. 3,063,065, 11–13–62, Cl. 5—99.

Shaw, Harold G., to United Shoe Machinery Corp. Heel seat fitting machines. 3,021,541, 2–20–62, Cl. 12—31.5.

Shaw, Harold N., to Market Forge Co. Kettles. 3,068,912, 12–18–62, Cl. 141—271.

Shaw, Harry. Relating to apparatus for transporting elongate objects. 3,018,028, 1–23–62, Cl. 226—172.

Shaw, Henry W. Portable lectern. 3,023,274, 2–27–62, Cl. 174—1.

Shaw, Herman L., to Aquafilter Corp. Filter tip. 3,048,180, 8–7–62, Cl. 131—207.

Shaw, Irvin W.: *See—*
Woolley, Kenneth C., and Shaw. 3,070,053.

Shaw, John, to The Tungum Co. Ltd. Change-speed drives. 3,062,065, 11–6–62, Cl. 74—217.

Shaw, John D. Comminutor. 3,049,857, 8–21–62, Cl. 56—501.

Shaw, John T.: *See—*
Benschem, Michael T., and Shaw. 3,040,088.

Shaw, Joseph L.: *See—*
Hansen, Leo J., Podebradsky, and Shaw. 3,041,182.

Shaw, Lee E.: *See—*
Shenk, Robert H., and Shaw. 3,045,453.

Shaw, Lyle F.: *See—*
Bougie, Romeo, and Shaw. 3,064,442.

Shaw, Lyle F., to Borg-Warner Corp. Automatic ice cube maker. 3,041,844. 7–3–62, Cl. 62—135.

Shaw, Mark, to Marksway Wear, Ltd. Provision of buoyancy for garments and the like. 3,047,889, 8–7–62, Cl. 9—329.

Shaw, Melvin: *See—*
Allen, Robert Y., Shaw, and Umstead. 3,021,639.

Shaw, Milton C., P. A. Smith, and N. H. Cook, to La Salle Steel Co. Metal finishing means and method for use of same. 3,055,102. 9–25–62, Cl. 29—547.

Shaw, Noel, to Shaw Process Development Corp. Molds. 3,022,555, 2–27–62, Cl. 22—193.

Shaw Process Development Corp.: *See—*
Shaw, Clifford. 3,061,655.
Shaw, Noel. 3,022,555.

Shaw, Prudence, ½ to F. C. Philpitt. Doll device. 3,048,941, 8–14–62, Cl. 46—116.

Shaw, Richard, Jr.: *See—*
Jursik, James, Ward, and Shaw. 3,054,304.

Shaw, Richard L., to The Monarch Machine Tool Co. Air bearing. 3,053,583, 9–11–62, Cl. 308—9.

Shaw, Robert F.: *See—*
Auerbach, Albert A., Berezin, Lubkin, and Shaw. 3,017,610.

Shaw, Robert F., to United States of America, Army. Antiozidants for rubber compositions. 3,032,520, 5–1–62, Cl. 260—28.5.

Shaw, Robert S., and R. P. Hopkins, to Rohm & Haas Co. Ion-exchange products and methods for making and using them. 3,024,207, 3–6–62, Cl. 260—2.1.

Shaw, Roger M. Foot measuring device. 3,032,880, 5–8–62, Cl. 33—3.

Shaw, Ronald A.: *See—*
Griffith, Alan Arnold, Lees, Shaw, and Willmer. 3,047,256.

Shaw, Ronald A., to Power Jets (Research and Development) Ltd. Air intake for jet sustained aircraft. 3,022,026, 2–20–62, Cl. 244—23.

Shaw & Slavsky Inc.: *See—*
Slavsky, Robert J. 3,041,760.
Slavsky, Robert J. 3,063,154.

Shaw, Stanley W. Key. 3,031,216, 4–24–62, Cl. 287—52.05.

Shaw, Vernon C. Wire or cable puller. 3,066,916, 12–4–62, Cl. 254—134.3.

Shaw-Walker Co., The: *See—*
Paquette, Kenneth N. 3,056,630.

Shaw, Walter C., to United Aircraft Corp. Pressure controlling means in aircraft air conditioning system. 3,051,070, 8–28–62, Cl. 98—1.5.

Shawfrank, Robert W., to Hussman Engineering Corp. Article perforation and food preservation. 3,020,377, 2–6–62, Cl. 219—19.

Shawhan, Elbert N., to Sun Oil Co. Fuel dispensing system. 3,036,585, 5–29–62, Cl. 137—101.19.

Shawhan, Elbert N., A. C. McLean, H. Palevsky, and R. L. Mather. Submerged body detection system. 3,020,470, 2–6–62, Cl. 324—3.

Shawinigan Chemicals Ltd.: *See—*
Germain, Leo M. 3,033,841.
Germain, Leo M. 3,053,721.
Johnson, Herbert S., and Reid. 3,034,863.
Kennedy, Douglas J. 3,032,896.
Rees, Richard W. 3,050,507.
Rees, Richard W. 3,053,821.
Rees, Richard W. 3,054,762.
Rees, Richard W. 3,058,940.

Shawinigan Resins Corp.: *See—*
Hall, Ralph, Smith, and Hilker. 3,067,063.
Kass, Robert E., Markhart, and Hunt. 3,061,566.
Kass, Robert E., Markhart, and Lavin. 3,063,995.

Shawinigan Resins Corp.: *See*—Continued
Lavin, Edward, and Cohen. 3,041,313.
Lavin, Edward, Fitzhugh, and Crozier. 3,069,379.
Lavin, Edward, and Markhart. 3,068,189.
Markhart, Albert H., Hunt, and Cohen. 3,048,560.
Markhart, Albert H., Hunt, and Lavin. 3,015,643.
Snelgrove, James A. 3,066,120.
Shaw's Travel Tric, Inc.: *See*—
Shaw, Bert J. 3,030,645.
Shay, Anthony J.: *See*—
Feldman, Louis I., Rigler, Shay, and Nielsen. 3,037,912.
Feldman, Louis I., Rigler, Shay, and Nielsen. 3,060,101.
Feldman, Louis I., Shay and Rigler. 3,037,913.
Shay, Anthony J., J. A. Lowery, N. Bohonos, and E. J. Backus, to American Cyanamid Co. Antibiotic and production thereof. 3,057,779, 10–9–62, Cl. 167—65.
Shay, Edward G., to The Atlantic Refining Co. Method for the enrichment of D_2O in solutions of D_2O in H_2O. 3,058,811, 10–16–62, Cl. 23—204.
Shay, Eli, to The Wean Engineering Co., Inc. Method and means for treating extended material. 3,058,378, 10–16–62, Cl. 83—38.
Shay, John M.: *See*—
Sturrock, John C., and Shay. 3,029,980.
Shay, Thomas M. Container. 3,036,725, 5–29–62, Cl. 217—12.
Shea, Edward T.: *See*—
Blake, Robert M., and Shea. 3,065,356.
Shea, Edward J., to United States of America, Navy. Coincidence detection circuit. 3,062,973, 11–6–62, Cl. 307—88.5.
Shea, John F. Potentiometer. 3,027,530, 3–27–62, Cl. 338—130.
Shea, Patrick H., to United States of America, Army. Aerial cable connector assembly. 3,067,695, 12–11–62, Cl. 104—112.
Shea, Reeford P., to Preco Inc. Paving machine control system. 3,029,716, 4–17–62, Cl. 94—46.
Sheaffer, W. A., Pen Co.: *See*—
Thompson, Elmer D., and Hansen. 3,027,613.
Zuber, Alexander A. 3,057,463.
Sheard, Anthony R.: *See*—
Goldsmid, Hiroshi J., and Sheard. 3,017,446.
Shearer, Newton H., Jr.: *See*—
Coover, Harry W., Jr., and Shearer. 3,058,969.
Shearer, Newton H., Jr., and H. W. Coover, Jr., to Eastman Kodak Co. Three-component catalyst containing polymeric methyl halide-metal reaction product and titanium compound for olefin polymerization. 3,018,278, 1–23–62, Cl. 260—93.7.
Shearer, Newton H., Jr., and H. W. Coover, Jr., to Eastman Kodak Co. Three-component catalyst containing polymeric methyl halide-metal reaction product and titanium compound for olefin polymerization. 3,026,310, 3–20–62, Cl. 260—93.7.
Shearer, Robert, H. Semple, Jr., and G. Nifontoff, to F. L. Smith Machine Co., Inc. Liquid applicator. 3,045,592, 7–24–62, Cl. 101—350.
Shearer, Robert E.: *See*—
Jackson, Carey B., and Shearer. 3,026,364.
Werner, Robert C., and Shearer. 3,031,518.
Shearer, Walter R. Combination spin and fly casting reel. 3,034,785, 5–8–62, Cl. 242—84.2.
Shearer, Walter V., and G. Householder, to The Plastic Coating Corp. Decorative laminated paper board and the method for its production. 3,042,563, 7–3–62, Cl. 154—45.9.
Shearman, Paul M., to Associated Electric Industries Ltd. Transistors. 3,030,560, 4–17–62, Cl. 317—235.
Shears, Stuart T., to United-Carr Fastener Corp. Check book clip. 3,023,474, 3–6–62, Cl. 24—259.
Shears, Stuart T., to United-Carr Fastener Corp. Buckle assembly. 3,045,304, 7–24–62, Cl. 24—77.
Sheckler, Addison C., to Carrier Corp. Thermoelectric panel. 3,035,109, 5–15–62, Cl. 136—4.
Shecter, George O., and I. L. Hirsch. Cushioning structure. 3,047,888, 8–7–62, Cl. 5—361.
Sheehan, John T.: *See*—
Bodanszky, Miklos, and Sheehan. 3,065,240.
Bodanszky, Mikolas, and Sheehan. 3,040,054.
Sheehan, Daniel J., and F. J. Stephan. Method and apparatus for transporting beams. 3,019,927, 2–6–62, Cl. 214—396.
Sheehan, James A.: *See*—
Hughes, Robert S., and Sheehan. 3,016,225.
Sheehan, John C. Process for the production of 6-aminopenicillanic acid. 3,028,379, 4–3–62, Cl. 260—239.1.
Sheehan, John F., Jr.: *See*—
Burke, Joseph L., and Sheehan. 3,021,815.
Sheehan, Leo J. Ship and pier fender. 3,033,151, 5–8–62, Cl. 114—219.
Sheehan, Leo J. Coupling for rope or cable ends. 3,048,909, 8–14–62, Cl. 24—123.
Sheehan, Robert T. Articulated belt conveyor and propelling car therefor. 3,052,341, 9–4–62, Cl. 198—109.
Sheen, Robert T., to Milton Roy Co. Chemical analyzer. 3,028,225, 4–3–62, Cl. 23—253.
Sheer, Charles, and S. Korman, to Sheer Korman Associates, Inc. Beneficiation of ores. 3,060,109, 10–23–62, Cl. 204—164.
Sheer Korman Associates, Inc.: *See*—
Sheer, Charles, and Korman. 3,060,109.
Sheer, Russell E., Jr.: *See*—
Cary, Kenneth H., Nagamatsu, and Sheer. 3,031,591.
Sheeran, Norman J., to Martin-Marietta Corp. Blood adhesive and method of producing the same. 3,058,835, 10–16–62, Cl. 106—79.
Sheers, Edward H., to American Cyanamid Co. Deodorization of cyanuric chloride. 3,019,223, 1–30–62, Cl. 260—248.
Sheesley, John M. Hydraulic actuated pump. 3,048,121, 8–7–62, Cl. 103—152.
Sheets, Francis J.: *See*—
Huhn, James S. F., and Sheets. 3,061,583.
Sheetz, Charles E., to FMC Corp. Article feed mechanism. 3,017,013, 1–16–62, Cl. 198—102.
Sheetz, Charles E., to FMC Corp. Container filling apparatus. 3,040,826, 6–26–62, Cl. 177—117.
Sheetz, David P.: *See*—
Le Fevre, Walter J., and Sheetz. 3,024,221.
Le Fevre, Walter J., and Sheetz. 3,033,833.
Sheffer, Leonard R. Tandem mowing mechanism. 3,045,413, 7–24–62, Cl. 56—294.
Sheffer, Stanley E.: *See*—
Zimmer, William G., Behringer, Hilgoe, and Sheffer. 3,039,387.
Sheffield Corp., The: *See*—
Aller, Willis F. 3,033,022.
Gesell, William F. 3,065,628.
Hecox, William, and Finlay. 3,060,387.
Jacobs, Orville W. 3,025,731.
Mahlmeister, Raymond A., and Straw. 3,028,675.
Roney, Richard N. 3,015,914.
Roney, Richard N. 3,015,961.
Roney, Richard N. 3,027,690.
Wiseman, Arthur W. 3,060,352.
Sheffield, Emory F.: *See*—
McNew, Daniel J., and Sheffield. 3,066,664.
Shefler, Sydney: *See*—
Casper, Erwin L., Ordahl, and Shefler. 3,048,076.
Sheftelman, Eugene H., to National Company, Inc. Transmission line fence burglar alarm. 3,031,643, 4–24–62, Cl. 340—258.
Sheidley, Hubert O., to Gustin-Bacon Mfg. Co. Glass fiber fissured acoustical board. 3,025,197, 3–13–62, Cl. 154—45.
Sheilds, Albert F., to S & S Corrugated Paper Machinery Co., Inc. Doctor roll. 3,016,874, 1–16–62, Cl. 118—262.
Sheinberg, David. Folding shelf. 3,032,204, 5–1–62, Cl. 211—93.
Sheinhartz, Irving, and J. L. Zambrow, to Sylvania Electric Products Inc. Apparatus and method for bonding tubular elements. 3,050,613, 8–21–62, Cl. 219—50.
Shekels, Howard D., to Sperry Rand Corp. Digital computer control. 3,043,510, 7–10–62, Cl. 235—157.
Shelburne, Richard M., to Hardwicke-Etter Co. Bypass for two-stage lint cotton cleaner. 3,027,604, 4–3–62, Cl. 19—202.
Shelby, Albert J. Adjustable snow and mud lug for vehicle tires. 3,019,830, 2–6–62, Cl. 152—225.
Shelby Salesbook Co., The: *See*—
Kehoe, James W. 3,022,094.
Shelby Spring Hinge Co., The: *See*—
Pittenger, Francis H. 3,021,556.
Shelby, Thomas A.: *See*—
Hirsch, Arthur G., Bolton, and Shelby. 3,062,770.
Shelby, Thomas A., to Standard Oil Co. Water soluble polyester and aqueous solution of same. 3,053,782, 9–11–62, Cl. 260—29.2.
Sheldahl, David B., to Sinclair Refining Co. Petroleum oil composition. 3,025,239, 3–13–62, Cl. 252—33.
Sheldahl, David B., to Sinclair Refining Co. Petroleum oil composition. 3,025,240, 3–13–62, Cl. 252—33.
Sheldahl, David B., and T. O. Counts, to Sinclair Refining Co. Anti-corrosive mineral oil compositions. 3,017,257, 1–16–62, Cl. 44—66.
Sheldahl, David B., and T. O. Counts, to Sinclair Refining Co. Corrosion inhibited composition. 3,024,259, 3–6–62, Cl. 260—401.
Sheldahl, David B., and T. O. Counts, to Sinclair Research, Inc. Anti-corrosive mineral oil compositions. 3,040,074, 6–19–62, Cl. 260—401.
Shelden, Charles H., and H. R. Lutes. Tissue suture clamp. 3,068,869, 12–18–62, Cl. 128—337.
Sheldon, Edward E. Endoscopes. 3,021,834, 2–20–62, Cl. 128—6.
Sheldon, Edward E. Endoscopes. 3,027,477, 3–27–62, Cl. 313—65.
Sheldon, Ernest F.: *See*—
Payne, Nigel E., and Sheldon. 3,024,968.
Sheldon, Gilbert J.: *See*—
Ferris, John T., Sheldon, Talbot, and Ulrich. 3,057,345.
Sheldon, Gilbert J., to Bausch & Lomb Inc. Illumination means for diagnostic instrument. 3,042,022, 7–3–62, Cl. 128—23.
Sheldon, Gilbert J., to Bausch & Lomb Inc. Flexible tube structures. 3,060,972, 10–30–62, Cl. 138—120.
Sheldon, Irwin R., to Precision Cine Equipment Corp. Film synchronizer. 3,053,426, 9–11–62, Cl. 226—76.
Sheldon, James: *See*—
Landmann, Wendell A., and Batzer. 3,047,399.
Sheldon, John L.: *See*—
Hares, George B., and Sheldon. 3,069,578.
Sheldon, Stewart L. Photographic methods and apparatus for use in cameras and projectors. 3,019,698, 2–6–62, Cl. 88—16.6.
Sheldrake, Leonard J.: *See*—
Hetzler, Lewis R., and Sheldrake. 3,022,455.

Sheldrick, William F.: *See*—
Bradley, John K., Brown, and Sheldrick. 3,049,417.
Bradley, John K., Dee, and Sheldrick. 3,047,379.
Sheler, Milo W., to The Bendix Corp. Power steering mechanism. 3,023,827, 3–6–62, Cl. 180—79.2.
Shelffo, Loren E., to Weber Addressing Machine Co., Inc. Stencil paper and coating composition. 3,062,675, 11–6–62, Cl. 117—35.5.
Shell Development Co.: *See*—
Merten, Eugen. Re. 25,160.
Shell, Haskiel R., to United States of America, Interior. Fluormica fluoramphibole ceramics and processes of making same. 3,054,685, 9–18–62, Cl. 106—39.
Shell Moulding Foundry Ltd.: *See*—
Hornig, Victor, and Clarke. 3,040,394.
Shell Oil Co.: *See*—
Alders, Lucas, and Baijlé. 3,041,373.
Anderson, Ralph, and Deal. 3,050,573.
Anderson, William S. 3,052,630.
Arabian, Karekin G., and Carraway. 3,041,268.
Arbogast, James L., and Fay. 3,052,837.
Ashe, Robert E., Haeber, Newman, and Otteman. 3,041,690.
Baker, Marion A. 3,052,594.
Balas, Jaroslav G. 3,067,189.
Balas, Jaroslav G., and Porter. 3,040,016.
Baldwin, Douglas, Jr., and Nager. 3,067,130.
Baliy, Adrianus P., and Ten Have. 3,062,736.
Barkelew, Chandler H. 3,049,891.
Barrett, Maurice L., Jr. 3,047,020.
Bauer, Richard J., Haeber, Otteman, and Perner. 3,064,735.
Bauer, Robert F., and Stratton. 3,043 255.
Beins, Berend M., and Dygert. 3,066,854.
Bell, Albert G., and Epton. 3,050,379.
Berger, Richard S. 3,045,001.
Bloembergen, Rudolf H. 3,053,757.
Bodlaender, Wolfgang B. A., and Dijkhuizen. 3,052,663.
Borsboom, Albertus C. H. 3,047,797.
Borstlap, Cornelis, and Kooijman. 3,067,220.
Boutte, Clarence P. 3,064,955.
Bradley, Theodore F., and Sommer. 3,015.635.
Brook, James H. T., and Glazebrook. 3,047,501.
Bruin, Pieter, and Selman. 3,024,285.
Buesink, Hendrik, and Kooijman. 3,067,221.
Buningh, Weigert C., and Ten Have. 3,055,825.
Bush, Warren V., and Holzman. 3,028,441.
Calhoun, George M., and Diamond. 3,041,279.
Calhoun, George M., and Hewett. 3,041,283.
Calhoun, George M., and Hewett. 3,041,284.
Calhoun, George M., and Hewett. 3,052,657.
Carey, James E. 3,067,170.
Carlson, George J., Dong, Higgins, and Wilcoxen. 3,066,127.
Channugam, Jayarajan. 3,019,182.
Channugam, Jayarajan. 3,019,199.
Chen, Harold H. 3,025,249.
Cheney, Harry A., and Foster. 3,040,015.
Cleland, William J., Henshall, Roper, Waring, and Seljo. 3,052,664.
Coppinger, Calvin M. 3,030,333.
Culver, Frederick H., and Lagucki. 3,050,130.
Datt, Paul L. 3,050,678.
Davis, Frank C. 3,062,896.
De Groot, Wilhelmus C., de Haan, and van den Bosch. 3,044,955.
De Jong, Johan R., and Goppel. 3,030,350.
De Roos, Huib, and Jense. 3,050,360.
Devlin, Paul A. 3,057,833.
Duck, Edward W., and Flatcher. 3,061,602.
Duguid, Howard Q. 3,067,681.
Dunlop, Arthur K., and Meeker. 3,053,633.
Edburg, Anton H., Jr. 3,049,989.
Edgar, John A., and Watson. 3,033,311.
Engel, Willem F. 3,017,402.
Engel, Willem F. 3,052,666.
Erikson, Jay A., Stiles, and Tieman. 3,065,257.
Ferrante, Gerald R. 3,052,562.
Ferrante, Gerald R., and Morris. 3,041,183.
Fischer, Rudolph F., and Smith. 3,043.851.
Forbes, Henry, Van der Marel, and Van den Berg. 3,028,-332.
Forbes, Henry, Van der Marel, and Van den Berg. 3,054,-745.
Foster, Kenneth W., Newman, and Geer. 3,050,127.
Francis, Charles E. 3,050,465.
Francis, Charles E. 3,067,142.
Franzen, Earl P., and Anderson. 3,048,117.
Garner, Philip J. 3,050,462.
Geer, Ronald L., and Otteman. 3,052.299.
Gordon, Benjamin E., and Weir. 3,041,282.
Greene, Charles R. 3,065,218.
Greene, Charles R., and Kunkel. 3,062,796.
Gutweiler, Klemens, and Niebergall. 3,070,582.
Haeber, John A. 3,050,129.
Haeber, John A. 3,062,288.
Haeber, John A., Newman, and Otteman. 3,050,117.
Handschy, John, Gordon, and Moore. 3,050,453.
Hawkinson, Donald R., and Todd. 3,062,589.
Hayes, William J. 3,050,139.
Hayes, William J. 3,050,140.
Hayes, William J. 3,062,287.
Shell Oil Co.: *See*—Continued
Hayes, William J. 3,066,325.
Heinz, Walter E., and Dodd. 3,041,161.
Higgins, Thair L., and Wilcoxen. 3,068,217.
Hijmans, Dirk. 3,060,950.
Hobson, Paul D. 3,041,278.
Hodgson, Russell L., and Raley. 3,052,735.
Holland, Stephen D. 3,053,903.
Holmes, Walter L., and Balfour. 3,031,424.
Hood, George C., Smith, and Pierotti. Re. 25,114.
Hubbert, Marion K., Smith, and Johnson. 3,046,601.
Jackson, Robert G., and Garner. 3,052,531.
Jaffe, Gunter S., Rocklin, and Van Winkle. 3,047,503.
Jaffe, Gunter S., Rocklin, and Van Winkle. 3,053,803.
Johnson, George F., and Teague. 3,062,836.
Jorda, Robert M., and Yachik. 3,049,752.
Kerkhoven, Rudolf E., and Dijkstra. 3,062,672.
King, Ralph W., and Movsovic. 3,027,280.
Koetitz, Kenneth F., and Fetterly. 3,062,904.
Kolb, Robert H. Re. 25,209.
Kolb, Robert H. 3,059,237.
Kolb, Robert H. 3,062,052.
Kreutzer, William A. 3,028,304.
Kuiken, Jan. 3,050,310.
Kurhajec, George A., Johnston, and Furman. 3,047,622.
Lagucki, Edward B. 3,052,302.
Loeffler, Donald E. 3,036,001.
Loeffler, Donald E. 3,041,632.
Luftglass, Murray A., and Peldon. 3,041,310.
Luten, Daniel B., Jr., and Meeker. 3,053,634.
Lutz, Robert G. 3,048,551.
Malott, Raymond A. 3,052,298.
Martin, Robert W. 3,052,640.
Martin, Robert W., and Sullivan. 3,062,895.
Masterton, Bruce and Langton. 3,050,572.
McEver, James W. 3,066,732.
McKenna, Thomas G. 3,068,270.
Meeker, Robert E. 3,053,632.
Meier, Dale J., and Kahn. 3,018,258.
Melchior, Jan G. 3,050,456.
Merlyn, John W., and Tuttle. 3,054,358.
Merten, Eugen. 3,046,889.
Meyers, Douglas C. 3,049,292.
Meyers, Douglas C. 3,050,125.
Morales, Juan G., and Soloway. 3,052,703.
Morris, Rupert C., and Rocklin. 3,030,428.
Morrow, Andrew S., Brewer, and Torbin. 3,052,629.
Moseley, John C., Ellis, Hayward, and Houston. 3,030,-426.
Movsovic, David J., and Ranadive. 3,030,401.
Nelson, Richard C. 3,033,790.
Nelson, Richard C. 3,068,764.
Nevill, Mason J. 3,052.265.
Newey, Herbert A. 3,041.352.
Newey, Herbert A. 3,057,909.
Nieuwenhuis, Willem E. 3,063,935.
Noorduyn, Arnold, and Doorman. 3,068,184.
Nozaki, Kenzie. 3,069,380.
Nozaki, Kenzie. 3,069,381.
Olney, Richard B. 3,050,447.
Outwin, Bertram N., and Otteman. 3,050,138.
Pannell, Calvin E. 3,058,921.
Paul, Albert P. 3,044,862.
Payne, George B. 3,053,857.
Payne, George B., and Deming. 3,053,856.
Payne, George B., and Sullivan. 3,041,356.
Payne, George B., Sullivan, Van Ess, and Williams. 3,062,890.
Peterson, Walter H. 3,050,463.
Peterson, Walter H., and Freeman. 3,067,223.
Pfrunger, Robert D., and Babbitt. 3,068,796.
Phillips, Donald D., and Soloway. 3,036,092.
Plummer, Donald P. 3,030,299.
Pogonowski, Ivo C. 3,036,437.
Porter, Lee M., and Balas. 3,066,125.
Porter, Lee M., and Balas. 3,066,126.
Porter, Lee M., Chantry, and York. 3,050,554.
Post, Benjamin G., Marple, and Arabian. 3,036,024.
Postma, Gerrit W. 3,052,836.
Racusen, David W., and Legator. 3,052,598.
Rader, William E. 3,017,319.
Rader, William E., and Legator. 3,044,884.
Reay, Walter H., Street, and King. 3,056,769.
Redlich, Otto, and Papadopoulos. 3,065,059.
Reynolds, Edward A. 3,029,971.
Reynolds, Richard J., and Ruetman. 3,047,552.
Rhodes, Aaron D., and Stratton. 3,017,934.
Rijnsdorp, Johannes E. 3,002.271.
Robinson, Robert, and Fray. 3,067,244.
Rocklin, Albert L. 3,047,631.
Rocklin, Albert L. 3,052.715.
Rocklin, Albert L. 3,052.728.
Rocklin, Albert L. 3,053,904.
Rocklin, Albert L. 3,068,197.
Rocklin, Albert L., and Van Winkle. 3,026,264.
Roddick, Douglas G., and Scott. 3,052,528.
Rolfson, Francis B. 3,049,907.
Rudy, Thomas P. 3,019,277.
Rudy, Thomas P. 3,066,663.
Rumscheidt, Gottfried E. 3,036,034.
Rundquist, Dean W. 3,050,113.
Ryan, Julian G. 3,030,303.

Shell Oil Co.: *See*—Continued
Samman, Gerard R. F., and Duruy. 3,070,454.
Sax, Karl J. 3,062,899.
Scheibli, James R. 3,051,084.
Schmidt Thomas R. 3,060,377.
Schmuling, Donald W. 3,067,137.
Schultz, Wilburn E. 3,062,303.
Schwarzer, Carl G., and Williams. 3,062,840.
Schroeder, Carl W. 3,018,262.
Schwarzer, Carl G., and Williams. 3,017,387.
Seemann, Walter P., and Hellberg. 3,030,190.
Seijo, Ernest, and Roper. 3,068,191.
Shokal, Edward C. 3,044,996.
Shokal, Edward C., Devlin, and Winkler. 3,040,010.
Slaugh, Lynn H. 3,052,737.
Steincamp, Sammy B. 3,053,320.
Stratton, Hal. 3,015,360.
Streich, John, and Jones. 3,068,269.
Sullivan, William J. 3,067,174.
Sullivan, William J., and Williams. 3,067,175.
Sun, Yun-Pei. 3,053,729.
Sutton, Reid E., and Bame. 3,063,818.
Sutton, Reid E., and Bame. 3,065,065.
Swiger, William F. 3,044,561.
Swiger, William F. 3,051,113.
Taicler, Paul W. 3,049,714.
Talley, Samuel K. 3,035,930.
Tieman, Charles H. 3,068,271.
Tieman, Charles H., and Stiles. 3,068,268.
Toth, Frederick J., and Toomey. 3,062,302.
Treseder, Richard S. 3,037,622.
Treseder, Richard S., and de Roos. 3,062,684.
Turner, James R., and Cline. 3,070,434.
Tvedt, Thorwald J. 3,047,810.
Van Amerongen, Gerrit J. 3,029,231.
Van Amerongen, Gerrit J., and Nozaki. 3,068,180.
Van Bergen, Johannes C., Laqueuille, and Boon. 3,047,184.
Van den Bussche, Hendrik K. J. 3,027,880.
Van der Wissel, Herman T. 3,050,318.
Van De Vusse, Jan G. 3,059,006.
Van Vusse, Jan G., Mondria, and Alders. 3,059,005.
Van Dijck, Willem J. D., and Kloosterziel. 3,050,451.
Van Ess, Paul R. 3,047,588.
Van't Spijker, Peter, and Van der Marel. 3,050,458.
Vegter, Geert C., and De Brabander. 3,065,274.
Vegter, Geert C., and Thrush. 3,050,438.
Versluis, Roeland. 3,039,948.
Versluis, Roeland. 3,039,751.
Voetter, Heinz, Verburg, and Zuiderweg. 3,062,517.
Voge, Hervey H. 3,067,272.
Vogel, Charles B. 3,050,151.
Vogel, Charles B., and Lamb. 3,062,314.
Vogel, Charles B., and Lamb. 3,063,035.
Vogel, John V. 3,040,576.
Vos, Johan M., and De Vries. 3,059,007.
Waale, Marinus J., and Vos. 3,059,004.
Ward, Harold E. 3,062,154.
Ward, Loyal F., Jr., and Phillips. 3,069,313.
Warren, William J. 3,066,529.
Watt, William A. L., and Moseley. 3,063,819.
Whetstone, Richard R. 3,027,296.
Wilson, William B., and Good. 3,051,645.
Winsor, Phillip D., and Lloyd. 3,041,281.
Witman, Robert C. 3,047,579.
Wittenwyler, Clifford V. 3,033,088.
Yang, Nien-Chu C., and Finnegan. 3,062,841.
Yap, Jan K., and Van Rossum. 3,066,462.
Youngman, Edward A. 3,041,137.
Youngman, Edward A. 3,066,128.
Youngman, Edward A., and Hewett. 3,041,321.
Zuiderweg, Frederik J. 3,062,627.
Zuiderweg, Frederik J., and Reman. 3,065,168.
Zuiderweg, Frederik J., Reman, and Schaafsma. 3,065,167.
Zuiderweg, Frederik J., Reman, and Schaafsma. 3,065,169.
Shellek, Daniel: *See*—
Smith, George E., and Shellek. 3,065,288.
Sheller Mfg. Corp.: *See*—
Ericson, Lloyd J. 3,041,671.
Shelley, Edwin F.: *See*—
Goodell, John D., and Shelley. 3,021,611.
Goodell, John D., Tengsater, and Shelley. 3,051,327.
Shelley, Joseph B. Bag top chain stitching machine. 3,034,459, 5–15–62, Cl. 112—10.
Shelley, Rulon G., to North American Aviation, Inc. Fire control system. 3,034,116. 5–8–62, Cl. 343—7.
Shelley, Thomas, to Rolls-Royce Ltd. Method of assembling a bladed member. 3,053,504, 9–11–62, Cl. 253—77.
Shellito, Urson M. Reel for flexible plastic pipe. 3,053,471, 9–11–62, Cl. 242—86.
Shelly, Robert S., to Pack Mfg. Co. Parallel ruling apparatus for layout or register tables. 3,025,604, 3–20–62, Cl. 33—81
Shelmire, Stanley R., to Scott & Williams, Inc. Knitting method and machine. 3,046,762, 7–31–62, Cl. 66—43.
Shelor, Edgar G., Jr.: *See*—
Moeller, Alvin W., and Shelor. 3,031,661.
Shelsinger, Bernard E., Jr. Multiple contact switch. 3,027,435, 3–27–62, Cl. 200—83.
Shelton, Clarence R. Crimping device for shotgun shells. 3,048,077, 8–7–62, Cl. 86—40.
Shelton, Dothan L. Syllabic typewriting machines. 3,026,984, 3–27–62, Cl. 197—17.
Shelton, Dothan L. Two-way closure locks. 3,043,617, 7–10–62, Cl. 292—6.
Shelton, Earl J., Jr., to Raytheon Co. Tunable stabilized traveling wave tube oscillator. 3,027,521, 3–27–62, Cl. 331—82.
Shelton, Glenmore L., Jr.: *See*—
McDermid, William L., Petersen, and Shelton. 3,036,775.
Shelton, Glenmore L., Jr., to International Business Machines Corp. Specimen identification apparatus and method. 3,064,519, 11–20–62, Cl. 88—1.
Shelton, Haywood: *See*—
Langmuir, David B., Langmuir, Shelton, and Wuerker. 3,065,640.
Shelton, Haywood, to Thompson Ramo Wooldridge Inc. Charged particle ejection means. 3,018,399, 1–23–62, Cl. 313—63.
Shelton, Joseph O. Article of headwear. 3,030,632, 4–24–62, Cl. 2—209.3.
Shelton, Winston L., to General Electric Co. Drain overflow arrangement for built-in washing machine. 3,039,286, 6–19–62, Cl. 68—208.
Shelton, Winston L., D. E. Wilson, and J. M. Evjen, to General Electric Co. Mounting arrangement for built-in washing machine. 3,038,284, 6–12–62, Cl. 68—3.
Shelton-V, George D., to The Flintkote Co. Spraying of liquid plastic and an additive material. 3,033,472, 5–8–62, Cl. 239—408.
Shelton-V, George D., to The Flintkote Co. Fluid tip and air cap. 3,039,702, 6–19–62, Cl. 239—549.
Shelton-V, George D. Sand blasting nozzle. 3,069,812, 12–25–62, Cl. 51—11.
Shelton-V, George D. Method of transporting materials and apparatus for performing said method. 3,070,403, 12–25–62, Cl. 302—52.
Shely, Benjamin L., to Minnesota Mining and Mfg. Co. Method for increasing photosensitivity of photoconductive materials. 3,069,365, 12–18–62, Cl. 252—501.
Shempaine Industries Inc.: *See*—
Smith, William H. 3,037,498.
Shen, Kwan-Ting: *See*—
De Groote, Melvin, and Shen. 3,056,498.
De Groote, Melvin, and Shen. 3,060,210.
Shen, Kwan-Ting, to Petrolite Corp. Process of inhibiting corrosion. 3,015,622, 1–2–62, Cl. 252—8.55.
Shen, Tsung Y., E. F. Rogers, and L. H. Sarett, to Merck & Co., Inc. Derivatives of thiaxanthenone. 3,031,452, 4–24–62, Cl. 260—268.
Shenefelt, Roy D.: *See*—
Esenther, Glenn R., Allen, Casida, and Shenefelt. 3,070,495.
Shenemann, Jack M.: *See*—
Hollenbeck, Clifford M., and Sheneman. 3,033,685.
Shenk, Robert H., and L. E. Shaw, to Zurn Industries, Inc. Gear coupling with combination lubricant plug and stops for limiting end movement of hubs. 3,045,453, 7–24–62, Cl. 64—9.
Shenkenberg, David R., to The Kroger Co. Process for the manufacture of a chocolate flavored powder. 3,027,257, 3–27–62, Cl. 99—24.
Shenker, Nathan M. Garment package. 3,043,423, 7–10–62, Cl. 206—46.
Shenkle, Courtney C.: *See*—
Thomas, Herbert G., Cornish, Shenkle, and Last. 3,045,486.
Shennum, Robert H.: *See*—
Leonard, Donald J., and Shennum. 3,030,448.
Shepanski, Joseph F. Sleeve installing tool. 3,028,664, 4–10–62, Cl. 29—282.
Shepard, Alvin F., to Hooker Chemical Corp. Vulcanization of butyl rubber with 3,5-dialkyl phenol-aldehyde heat reactive resins. 3,028,356, 4–3–62, Cl. 260—43.
Shepard, Alvin F., to Hooker Chemical Corp. Vulcanization of butyl rubber with a hydrocarbon-substituted dinuclear phenol dialcohol, and product obtained thereby. 3,028,357, 4–3–62, Cl. 260—43.
Shepard, Amos E., to United Aircraft Corp. Intermediate compressor case. 3,038,652, 6–12–62, Cl. 230—120.
Shepard, Arthur P., to Metco Inc. Heat-fusible material spray equipment. 3,055,591, 9–25–62, Cl. 239—13.
Shepard, David H., to Intelligent Machines Research Corp. Differential scanning apparatus. 3,056,033, 9–25–62, Cl. 250—219.
Shepard, Harry W., Jr. Ticket issuing mechanism. 3,051,953, 8–28–62, Cl. 346—24.
Shepard, Leonard F., to International Latex Corp. Omnidirectional high altitude helmet. 3,030,626, 4–24–62, Cl. 2—2.1.
Shepard, Leonard F., to International Latex Corp. Pressure suit for high altitude flying. 3,042,926, 7–10–62, Cl. 2—2.1.
Shepard, Orson C.: *See*—
Hayes, Walter C., and Shepard. 3,043,680.
Shepard, Robert L.: *See*—
Bush, Harry D., and Shepard. 3,060,251.
Shepardson, Donald W.: *See*—
Mayo, Clyde R., and Shepardson. 3,062,109.
Rutkus, John, Jr., and Shepardson, and Griswold. 3,062,095.
Shepardson, Donald W., and J. Rutkus, Jr., and A. W. Griswold, to Xerox Corp. Exposure station apparatus. 3,062,110, 11–6–62, Cl. 95—1.7.

Shepherd, Ben L. and B. G. Muffler. 3,017,948, 1–23–62, Cl. 181—64.

Shepherd, Benjamin F., to Ingersoll-Rand Co. New metal alloy material and method of heat treating. 3,063,833, 11–13–62, Cl. 75—159.

Shepherd, Bob G. : *See*—
Shepherd, Ben L. and B. G. 3,017,948.

Shepherd, Charles G., to Garcy Co. of Canada Ltd. Hinge structure. 3,052,372, 9–4–62, Cl. 220—38.

Shepherd, Dennis V. : *See*—
Collins, Bernard P., and Shepherd. 3,032,884.

Shepherd, George F. Casters. 3,054,135, 9–18–62, Cl. 16—18.

Shepherd, Neal H. : *See*—
Buesing, Richard T., Gifford, and Shepherd. 3,049,710.

Shepherd, Raymond P., and W. D. Boone, to Dover Corp. Under wing fueling nozzle. 3,045,721, 7–24–62, Cl. 141—346.

Shepherd, Ridgley G., Jr., to Dennison Mfg. Co. Top label surprinting. 3,043,732, 7–10–62, Cl. 156—230.

Shepherd, Robert A., to Scriptomatic, Inc. Addressing machine. 3,053,176, 9–11–62, Cl. 101—132.5.

Shepherd, Robert C. : *See*—
Painter, Erle V., and Shepherd. 3,049,000.

Shepherd, Robert G. : *See*—
Fedrick, James L., Redin, and Shepherd. 3,048,519.
Fitchett, Gilmer T., Gordon, and Shepherd. 3,051,702.

Shepherd, Robert N., to Minneapolis-Honeywell Regulator Co. Control system. 3,062,486, 11–6–62, Cl. 244—77.

Shepherd, Thomas L. Socket wrench. 3,068,728, 12–18–62, Cl. 81—177.

Shepley, John H., to Sperry Rand Corp. Support and container. 3,028,117, 4–3–62, Cl. 242—129.

Shepley, John H., to Sperry Rand Corp. Wire splicer. 3,040,-652, 6–26–62, Cl. 100—1.

Shepley, William L. : *See*—
Cook, Edward G., and Shepley. 3,021,706.

Sheppard, C. E., Co., The : *See*—
Peyrado, Charles L. 3,026,876.

Sheppard, Chester S., and M. H. Wilt, to United States Steel Corp. Carbazole amines. 3,041,348, 6–26–62, Cl. 260—315.

Sheppard Enterprises : *See*—
Winston, Jack W. 3,030,255.

Sheppard, John C., to United States of America, Atomic Energy Commission. Process for extracting neptunium and plutonium from nitric acid solutions of same containing uranyl nitrate with tertiary amine. 3,047,360, 7–31–62, Cl. 23—14.5.

Sheppard, Kalin L., and N. M. Pierce. Apparatus for forming drum jacks. 3,047,217, 7–31–62, Cl. 234—48.

Sheppard, William L. Governor. 3,064,669, 11–20–62, Cl. 137—51.

Shepperd, Irving J. : *See*—
Bowen, Carl W., Shepperd, and Werner. 3,025,519.

Sheps, Martin L., and L. H. Bowen, III, to The Black and Decker Mfg. Co. Balanced trigger mechanism for air tool. 3,037,740, 6–5–62, Cl. 251—282.

Sher, Ben C., and H. F. Fruth, to Radio Industries, Inc. Production of electrical printed circuits. 3,031,344, 4–24–62, Cl. 117—212.

Sher, Ben C., and H. F. Fruth. Electrical component preparation utilizing a pre-acid treatment followed by chemical metal deposition. 3,035,944, 5–22–62, Cl. 117—213.

Sher, Bernard L., to North American Aviation, Inc. Frequency comparison means. 3,058,063, 10–9–62, Cl. 324—79.

Sher, Fred D. Container for packaging merchandise. 3,023,-925, 3–6–62, Cl. 220—60.

Sher, Harry N., to The Distillers Co. Ltd. Continuous process for the production of yeast. 3,032,476, 5–1–62, Cl. 195—94.

Sherbeck, Leander A. : *See*—
Hoffman, Henry A., Jr., and Sherbeck. 3,019,119.

Sherburne, Philip C., to Grinnell Corp. Motor-driven positioner. 3,031,160, 4–24–62, Cl. 248—58.

Sherburne, Philip C., to Grinnell Corp. Gas motor driven positioner. 3,049,325, 8–14–62, Cl. 248—58.

Sherburne, Philip C., to Grinnell Corp. Turnbuckle blank. 3,065,006, 11–20–62, Cl. 287—60.

Sheredos, Yonan J. : *See*—
Kerley, James J., Jr., and Sheredos. 3,065,959.

Sherer-Gillett Co. : *See*—
West, Reginald C. 3,065,609.

Sherfey, Joseph M. : *See*—
Brenner, Abner, and Sherfey. 3,019,174.

Sheridan, David S. Seamless extruded plastic rectal tubes. 3,042,044, 7–3–62, Cl. 128—348.

Sheridan, David S. Medico-surgical tubes having integral connectors formed in their ends. 3,042,045, 7–3–62, Cl. 128—349.

Sheridan, David S. Non-sparking medico-surgical tubes. 3,070,132, 12–25–62, Cl. 138—118.

Sheridan, Jerome R. : *See*—
Schlayer, Earle G., Gegner, Ballwig, and Sheridan. 3,053,386.

Sheridan, Robert Anthony. Artificial wake for duck decoy. 3,021,635, 2–20–62, Cl. 43—3.

Sheridan, T. W. & C. B., Co. : *See*—
Zurlo, John T. 3,064,512.

Sheridan, Thomas L., and R. A. Nyberg. Transistor blocking oscillator power supply. 3,023,375, 2–27–62, Cl. 331—112.

Sheridan, Thomas R. : *See*—
Sharin, Samuel, Sheridan, Liguori, and Kishi. 3,055,978.

Sheriff, Merle M., and F. J. Holland. Accelerator pedal controlled full power brake system for vehicles. 3,063,527, 11–13–62, Cl. 192—3.

Sheriff, William H. Animal restraining device. 3,043,268, 7–10–62, Cl. 119—98.

Sherlaw, William, and H. Leheup, to Rolls-Royce Ltd. Deicer system for a gas turbine engine. 3,057,154, 10–9–62, Cl. 60—39.09.

Sherlock, Roy, to The Distillers Co. Ltd. Process for the production of cobalamin/peptide compositions. 3,035,983, 5–22–62, Cl. 167—81.

Sherman, Alden O. Method of forming hollow vanes and blades for gas turbines. 3,052,961, 9–11–62, Cl. 29—156.8.

Sherman, Alex, to Square D Co. Sensing device for data cards and the like. 3,042,299, 7–3–62, Cl. 235—61.11.

Sherman, Arthur, to Thiokol Chemical Corp. Nozzle for reaction motor. 3,049,877, 8–21–62, Cl. 60—35.55.

Sherman, Bennett, to Barnes Engineering Co. Dispersion prism with no deviation. 3,057,248, 10–9–62, Cl. 88—1.

Sherman, Bernard H. : *See*—
Frazier, Thomas C., Jr., and Sherman. 3,065,231.

Sherman, Charles A., to Weyerhauser Co. Mark sensing lumber defect cutter. 3,044,508, 7–17–62, Cl. 144—2.

Sherman Enterprises, Inc. : *See*—
Sherman, Kenneth C. 3,051,483.

Sherman, George M. *See*—
Grenstad, Arvid, Hereth, Morris, and Sherman. 3,045,552.

Sherman, George O., to The Salvajor Co. Garbage grinder. 3,017,125, 1–16–62, Cl. 241—46.

Sherman, George O., to The Salvajor Co. Silverware salvage assembly for garbage grinders. 3,033,368, 5–8–62, Cl. 209—155.

Sherman, George R., to General Electric Co. Dual axis oven door structure. 3,018,509, 1–30–62, Cl. 16—147.

Sherman, George R., to General Electric Co. Range with front-serviceable backsplasher. 3,040,733, 6–26–62, Cl. 126—214.

Sherman, Guy S., and L. E. Williams. Machine for simultaneously dispensing a plurality of substantially equal quantities of a viscous substance. 3,066,644, 12–4–62, Cl. 118—315.

Sherman, H. B., Mfg. Co. : *See*—
Turner, George L. 3,045,923.

Sherman, Harvey : *See*—
Bauer, Benjamin B., and Sherman. 3,019,303.

Sherman, Jerome, J. E. Sharbaugh, W. L. Fauth, Jr., N. J. Pallaticino, and R. G. De Huff, to United States of America, Atomic Energy Commission. Nuclear reactor. 3,060,111, 10–23–62, Cl. 204—193.2.

Sherman, Kenneth C., to Sherman Enterprises, Inc. Mechanism for elevating and separately discharging bowling balls and pins. 3,051,483, 8–28–62, Cl. 273—43.

Sherman Knee Co., The : *See*—
Rueb, Theodore O. 3,045,454.

Sherman, Louise. Hem flaring devices for dresses and the like. 3,054,114, 9–18–62, Cl. 2—211.

Sherman, Michael, to Thompson Ramo Wooldridge Inc. D–C output frequency discriminators using lag lead phase shift networks, sampling, and averaging circuits. 3,054,-064, 9–11–62, Cl. 329—137.

Sherman, Orville B., to Owens-Illinois Glass Co. Method for extruding plastic materials. 3,023,461, 3–6–62 Cl. 18—55.

Sherman, Orville B., to Owens-Illinois Glass Co. Method and apparatus for low pressure molding. 3,025,567, 3–20–62, Cl. 18—30.

Sherman, Orville B., to Sherman Plastics Corp. Method of forming plastic articles. 3,032,823, 5–8–62, Cl. 18—55.

Sherman, Patsy O. : *See*—
Sherman, Ralston M., and Smith. 3,068,187.

Sherman, Patsy O., and S. Smith, to Minnesota Mining and Mfg. Co. Emulsion polymerization of water insoluble ethylenic monomers. 3,062,765, 11–6–62, Cl. 260—29.6.

Sherman Plastics Corp. : *See*—
Sherman, Orville B. 3,032 823.

Sherman, Ralston M., to The Silent Glow Oil Burner Corp. Incinerators. 3,070,047, 12–25–62, Cl. 110—18.

Sherman, William C., to Chas. Pfizer & Co., Inc. Antibiotics in feeds. 3,022,218, 2–20–62, Cl. 167—53.

Sherman, William O., Jr., to Norfolk Iron & Wire Works, Inc. House moving unit. 3,021,155, 2–13–62, Cl. 280—423.

Sherman, William R. : *See*—
Dickson, Donald E. and Sherman. 3,055,910.
Von Esch, Anne M., and Sherman. 3,058,988.

Sherman, William R., to Abbott Laboratories. Antibacterial agents. 3,024,233, 3–6–62, Cl. 260—247.2.

Sherman, William R., to Abbott Laboratories. Process for preparing 2-fluoroalkyl-5-nitrofurans. 3,047,587, 7–31–62, Cl. 260—346.1.

Sherning, Olof D., ½ to G. H. Roach. Method of making a high temperature thermocouple. 3,069,752, 12–25–62, Cl. 29—155.5.

Sherno, Stanley A., to G. W. Woelfel. Methods for producing three dimensional signs. 3,061,881, 11–6–62, Cl. 18—47.5.

Shero, Ronald D. Automobile window screen. 3,016,952, 1–16–62, Cl. 160—354.

Sherrard, George H., and Z. T. Khachadoorian, to Cordo Chemical Corp. Laminated structures. 3,061,491, 10–30–62, Cl. 154—43.

Sherrick, Paul H.: *See*—
Nielsen, Carl A., Ewen, and Sherrick. 3,015,536.
Sherrill, John F., to Sea-Trim Corp. Boat trimming stabilizer. 3,046,928, 7–31–62, Cl. 114—66.5.
Sherrill, Joseph C., W. M. Linfield, and B. E. Marsh, to Armour and Co. Rendering fabric anti-static, soft and micro-organisms resistant. 3,033,704, 5–8–62, Cl. 117—47.
Sherrill, Joseph H., to R. J. Reynolds Tobacco Co. Packages. 3,037,683, 6–5–62, Cl. 229—44.
Sherrill, Price E., and C. E. Moss, to The Firestone Tire & Rubber Co. Textile lubricating apparatus. 3,018,605, 1–30–62, Cl. 57—120.
Sherritt Gordon Mines Ltd.: *See*—
Meddings, Basil. 3,062,680.
Nashner, Sydney, and Forward. 3,034,864.
Sherrod, Eugene L., ½; and R. T. Sherrod. Pump for semi-fluid material. 3,068,806, 12–18–62, Cl. 103—169.
Sherrod, Robert T.: *See*—
Sherrod, Eugene L. 3,068,806.
Sherron, Emmitt B. Lifting implement. 3,025,097, 3–13–62, Cl. 294—88.
Sherron, Percival H. Illuminated telephone booth. 3,017,712, 1–23–62, Cl. 40—130.
Sherron, Percival H. Replaceable ceiling structure for telephone booths. 3,031,862, 5–1–62, Cl. 62—259.
Sherron, Percival H. Roof cap for multiple telephone booth assemblies. 3,059,561, 10–9–62, Cl. 189—2.
Sherron, Percival H. Telephone booth door hanger construction. 3,046,594, 7–31–62, Cl. 16—95.
Sherron, Percival H. Corner post connection for telephone booth. 3,046,614, 7–31–62, Cl. 20—3.5.
Sherron, Percival H. Hinged ceiling telephone booths. 3,046,615, 7–31–62, Cl. 20—3.5.
Sherron, Percival H. Illuminated telephone booth. 3,059,-102, 10–16–62, Cl. 240—2.
Sherron, Percival H. Telephone dialing mechanism. 3,069,-509, 12–18–62, Cl. 179—81.
Sherts, James H., S. M. Terry, and K. H. Coultrap, to Pittsburgh Plate Glass Co. Method of forming foam layers on carpeting. 3,041,224, 6–26–62, Cl. 156—79.
Sherwen, Joseph W., to The General Electric Co. Ltd. Vibratory equipment. 3,063,546, 11–13–62, Cl. 198—220.
Sherwen, Theo, and L. G. Taylor, to Horstmann & Sherwen Ltd. Saw guard for a circular sawing machine. 3,043,353, 7–10–62, Cl. 143—159.
Sherwin-Williams Co., The: *See*—
Barkman, Aaron, Fujimoto, and Orwig. 3,050,263.
Barkman, Aaron, Fujimoto, and Orwig. 3,055,600.
Damusis, Adolf. 3,023,109.
Franklin, William M., and Jones. 3,055,492.
Gehring, Harvey T. 3,017,375.
Giordano, Joseph. 3,027,096.
Grummitt, Oliver J. 3,043,704.
Grummitt, Oliver J., and Stearns. 3,023,117.
Kuhn, Joseph M. 3,017,377.
Martens, Charles R. 3,042,651.
Penoyer, Charles E. 3,016,555.
Petty, John L. 3,032,277.
Petty, John L. 3,058,931.
Petty, John L. 3,058,932.
Pope, Charles E. 3,055,596.
Simon, Paul. 3,021,293.
Sherwood, Edwin T.: *See*—
Fiandt, Ronald M., and Sherwood. 3,061,827.
Ganiere, Herbert C., Schimek, and Sherwood. 3,021,469.
Sherwood, Edwin T., and E. Schimek, to Globe-Union Inc. Low tension ignition system. 3,052,818, 9–4–62, Cl. 315—209.
Sherwood, Glenn L., to Kaywood Corp. Window blinds and frames for like structures. 3,059,291, 10–23–62, Cl. 20—62.
Sherwood, Gordon M.: *See*—
Cheney, Charles W. B. 3,025,692.
Cheney, Charles W. B. 3,026,135.
Cheney, Charles W. B. 3 030,137.
Sherwood, John F. Thermally controlled expansible means for imparting motion to mechanism. 3,029,595, 4–17–62, Cl. 60—23.
Sherwood, John F. Thermal hydraulic power assembly. 3,059,417, 10–23–62, Cl. 60—23.
Sherwood, Laurence T., Jr., to E. I. du Pont de Nemours and Co. Photostabilized polyoxymethylenes. 3,050,500, 8–21–62, Cl. 260—45.95.
Sherwood, Richard C., and H. J. Williams, to Bell Telephone Laboratories, Inc. Magneto-optical information storage unit. 3,059,538, 10–23–62, Cl. 88—61.
Sherwood, Thomas K., to Union Oil Co. of California. Separation of hydrocarbons with an adsorbent slurry. 3,068,-627, 12–18–62, Cl. 55—22.
Sheshunoff, Victor: *See*—
Whitfield, Marshall G., and Sheshunoff. 3,044,156.
Shesta, John, to Thiokol Chemical Corp. Combustion chamber outer jacket. 3,044,257, 7–17–62, Cl. 60—35.6.
Shetty, Bola V., W. F. Bruce, and M. E. Freed, to American Home Products Corp. Dihydroxy-tertiary-butylamines. 3,062,839, 11–6–62, Cl. 260—347.7.
Shevchenko, Richard P., and D. B. Waring, to United Aircraft Corp. Oil-scrubbed bearing race and face seal. 3,025,115, 3–13–62, Cl. 308—187.1.
Shevel, Wilbert L., Jr., to International Business Machines Corp. Temperature sensing circuit. 3,054,044, 9–11–62, Cl. 323—48.
Shevlin, Robert T.: *See*—
Melmed, Arthur S., Shevlin, and Laupheimer. 3,054,989.
Shewell, Earl W., to Arean Eastern Ltd. Locking mechanism. 3,048,245, 8–7–62, Cl. 189—36.
Shewmaker, James E., and J. F. Nelson, to Esso Research and Engineering Co. Radiation induced ethylene polymerization. 3,018,236, 1–23–62, Cl. 204—154.
Shewmon, Daniel C. Bolt with driving head shearable at pre-determined torque. 3,027,796, 4–3–62, Cl. 85—61.
Shewmon, Ralph K.: *See*—
Flora, Raymond A., Neyhouse, Savage, and Shewmon. 3,060,593.
Neyhouse, George A., Savage, and Shewmon. 3,033,014.
Neyhouse, George A., Savage, and Shewmon. 3,049,021.
Shiba, Kamekichi. Apparatus and method for measuring surface temperatures. 3,039,308, 6–19–62, Cl. 73—339.
Shibata, George T.: *See*—
Shibata, Katasusuke, and Mori. 3,068,616.
Shibata, Katasusuke, and T. Mori, ½; to G. T. Shibata. Plant cultivation apparatus. 3,068,616, 12–18–62, Cl. 47—1.
Shibaura Kyodo Kogyo Kabushiki Kaisha: *See*—
Akamatsu, Hayao, and Yoshikawa. 3,024,869.
Sensui, Nobuo, and Aoki. 3,022,863.
Shichman, Daniel, to United States Rubber Co. Flame-sprayed metal article. 3,053,610, 9–11–62, Cl. 18—47.
Shickel, James B., to General Electric Co. Spark gap protector. 3,045,143, 7–17–62, Cl. 313—325.
Shiel, Robert J.: *See*—
Lawrence, Robert W., and Shiel. 3,055,648.
Shields, Albert F., to S & S Corrugated Paper Machinery Co. Inc. Sheet gripping means for cutting and creasing press. 3,042,398, 7–3–62, Cl. 271—79.
Shields, Albert F., to S & S Corrugated Paper Machinery Co., Inc. Counting means. 3,063,577, 11–13–62, Cl. 214—6.
Shields, Albert F., to S & S Corrugated Paper Machinery Co., Inc. Outside lap glue unit. 3,068,837, 12–18–62, Cl. 118—249.
Shields, Donald J.: *See*—
Coover, Harry W., Jr., and Shields. 3,062,900.
Shields, James L.: *See*—
Lunn, Lawrence M., Shields, and De Vault. 3,043,998.
Shields, John B., to Foremost Dairies, Inc. Method of manufacturing an instantized product. 3,057,727, 10–9–62, Cl. 99—56.
Shields, Peter E. Seed peanut planter with housing and seed chute. 3,023,930, 3–6–62, Cl. 221—200.
Shields, Robert L.: *See*—
Brown, Alvin M., Ayers, Shields, Maloney, and Kmiecik. 3,020,834.
Brown, Alvin M., Ayers, Shields, Maloney, and Kmiecik. 3,049,992.
Shields, William D., to Voss Engineering Co. Floating supplemental bearings for roller levelers. 3,064,712, 11–20–62, Cl. 153—106.
Shields, William H.: *See*—
Chambers, Caswell G. 3 058,735.
Shiels, Thomas E., Jr., to Fleming & Sons, Inc. Beverage container carrier. 3,056,528, 10–2–62, Cl. 220—116.
Shiffler, Richard V.: *See*—
Fife, Harvey R., and Shiffler. 3,062,747.
Shiffman, Jerome. Display containers. 3,015,383, 1–2–62, Cl. 206—45.23.
Shiffman, Jerome. Tools for removing and fitting watch crystals. 3,052,906, 9–11–62, Cl. 15—105.
Shiffman, Jerome. Tools for handling watch crystals. 3,068,-558, 12–18–62, Cl. 29—210.
Shiflett, Thurston: *See*—
Carter, William L., and Shiflett. 3,041,779.
Shifrer, Martin G.: *See*—
Bellingher, Fred A., and Shifrer. 3,039,810.
Shigekuni, Thomas N. Tool coupling assembly. 3,023,054, 2–27–62, Cl. 306—31.
Shildneck, Paul R.: *See*—
Larson, Roy F., Langlois, and Shildneck. 3,016,398.
Shile, Raymond. Adjustable foot for palletized loads. 3,061,-257, 10–30–62, Cl. 248—193.
Shiller, Larry: *See*—
Johnstone, Charles A., Hersh, Meekins, and Shiller. 3,068,755.
Shillington, Harry R., to Western Electric Co., Inc. Capacitance measuring circuit. 3,042,859, 7–3–62, Cl. 324—60.
Shillington, Harry R., to Western Electric Co., Inc. Capacitance measuring and dielectric strength test set. 3,042,860, 7–3–62, Cl. 324—60.
Shillington, Harry R., to Western Electric Co., Inc. Electrical breakdown count test set. 3,048,774, 8–7–62, Cl. 324—54.
Shillington, Harry R., to Western Electric Co., Inc. System for connecting electrical networks. 3,054,052, 9–11–62, Cl. 324—73.
Shimada, Saburo, to Riccar Sewing Machine Co., Ltd. Device for automatic zigzag sewing. 3,062,164, 11–6–62, Cl. 112—158.
Shimada, Saburo, to Riccar Sewing Machine Co., Ltd. Automatic and hand-operated apparatus for use in rotary type zigzag sewing machines. 3,067,702, 12–11–62, Cl. 112—158.
Shimada, Satoshi, to Sony Corp. Horizontal deflection synchronizing device. 3,070,657, 12–25–62, Cl. 178—69.5.
Shimanckas, William J., to Outboard Marine Corp. Lubrication of a marine propulsion device. 3,042,146, 7–3–62, Cl. 184—6.

Shimano, Keizo. Three stage speed change mechanism for a bicycle. 3,021,728, 2–20–62, Cl. 74—750.

Shimato, Toshihiko : *See*—
Masukawa, Miyoshi, Ota, Yamada, and Shimato. 3,016,-286.

Shimazaki, Thomas T. : *See*—
Anderson, William F., Shimazaki, Stelle, and Tellefson. 3,029,198.

Shimizu, Akio. Automatic machine for grinding and polishing a surface of masonry. 3,041,793, 7–3–62, Cl. 51—180.

Shimizu, Toshio. Interphone apparatus. 3,055,979, 9–25–62, Cl. 179—1.

Shimkus, Robert A., to Revere Camera Co. (formerly Samica Corp.). Automatic photographic exposure control with glare compensation and back-light compensation. 3,051,-068, 8–28–62, Cl. 95—64.

Shimmon, William L. Box turning device for fork-lift trucks. 3,024,929, 3–13–62, Cl. 214—313.

Shimokoshi, Masao : *See*—
Miyaue, Takashi, and Shimokoshi. 3,059,026.

Shimoyamada, Masatsugu : *See*—
Suzuki, Shigeru, Shimoyamada, Akabayashi, Ogawa, and Iwatsuki. 3,055,735.

Shimp, Nathan B., to Speicher Brothers, Inc. Self return trip cleaner for trenching machine. 3,049,816, 8–21–62, Cl. 37—97.

Shimula, Yoshihiro, and H. Uchida, to Rigaku Denki Co. Ltd. System for measuring the lattice spacing of crystal by means of X-rays. 3,022,423, 2–20–62, Cl. 250—51.5.

Shimula, Yoshihiro, and H. Uchida. Automatic recording system of X-ray diffraction patterns. 3,051,834, 8–28–62, Cl. 250—51.5.

Shimula, Yoshihiro, and H. Uchida, to Rigaku Denki Co. Ltd. X-ray diffraction system. 3,051,835, 8–28–62, Cl. 250—51.5.

Shimura, Kensuke, and T. Uremura. Process for producing L-isoleucine. 3,041,247, 6–26–62, Cl. 195—29.

Shimwell, Rodney H., and E. L. Robinson, to Simms Motor Units Ltd. Electric generator supply systems. 3,041,525, 6–26–62, Cl. 322—28.

Shin Nippon Chisso Hiryo Kabushiki Kaisha : *See*—
Kusama, Jun. 3,067,065.

Shine, Edward C. Turntable. 3,032,917, 5–8–62, Cl. 45—131.

Shinkle, Jackson J. Box carrying and closing arrangement. 3,022,255, 5–1–62, Cl. 229—46.

Shinko Seiki Kabushiki Kaisha : *See*—
Yamazoe, Masao. 3,061,298.

Shin-Mitsubishi Jukogyo Kabushiki Kaisha : *See*—
Namiki, Shigeru. 3,057,485.

Shinn, Clifford L. Water-proof tail light. 3,046,388, 7–24–62, Cl. 240—8.3.

Shinn, Dalton L. : *See*—
Schiffbauer, Robert V., and Shinn. 3,028,502.

Shinn, Guy C. Recessible fifth wheel pin. 3,031,206, 4–24–62, Cl. 280—433.

Shinn, Kenneth H. K. Electrical connector. 3,049,582, 8–14–62, Cl. 174—92.

Shinner, John E. T., to Joseph Lucas (Industries) Ltd. Speed governors. 3,058,354, 10–16–62, Cl. 73—511.

Shiobara, Tadashi : *See*—
Meguro, Seitaro, Ozawa, Yasuhara, Sukegawa, Shiobara, and Yoshihara. 3,063,844.

Shionogi & Co., Ltd. : *See*—
Igarashi, Kikuo. 3,043,834.
Komeno, Taichiro. 3,016,386.
Komeno, Taichiro 3,047,590.
Kubota, Tokuo. 3,060,250.
Nagata, Wataru, Narisada, and Sugasawa. 3,055,917.
Tanaka, Kentaro. 3,062,808.
Yamamoto, Ryuichi, Tanaka, and Takehara. 3,031,467.

Shipes, Kelly V., to Dresser Industries, Inc. Differential transformer. 3,039,069, 6–12–62, Cl. 336—30.

Shiplett, Lester D., and B. H. Ochterbeck. Knee rest for automobiles. 3,018,134, 1–23–62, Cl. 297—427.

Shipley, Charles W., C. W. Lawrence, and M. E. Wasilisin, to Martin-Marietta Corp. Crisscross core for laminated metal structures. 3,037,592, 6–5–62, Cl. 189—34.

Shipley, Clifford S. : *See*—
Leum, Leonard N., Connor, Rothrock, and Shipley. 3,041,270.

Shipley, Frank : *See*—
Barricks, Joseph B. 3,040,932.

Shipley, Kenneth C., to Inland Steel Co. Inner cover for box annealing furnace. 3,053,523, 9–11–62, Cl. 266—5.

Shipley, Robert M., Jr. Tree shaker apparatus. 3,059,402, 10–23–62, Cl. 56—328.

Shipman, Gary M., to J. P. Stevens & Co., Inc. Process for producing sized glass yarns and cleaning fabrics woven therefrom. 3,045,317, 7–24–62, Cl. 28—75.

Shipman, James J., and G. L. Smith, to The B. F. Goodrich Co. Spinning dope solutions of a vinylidene cyanide interpolymer and method of making. 3,031,428, 4–24–62, Cl. 260—32.6.

Shipton, E., & Co. Ltd. : *See*—
Strong, Bernard. 3,021,559.

Shiraishi, Makoto, and M. Matsumoto, to Kurashiki Rayon Co., Ltd. Polyvinyl alcohol product and process for making the same. 3,052,662, 9–4–62, Cl. 260—91.3.

Shiraishi, Tsuneyoshi. Method of preparing colloidal calcium magnesium silicate. 3,046,152, 7–24–62, Cl. 106—306.

Shire, Phillip H., to Toledo Scale Corp. Printer keyboard. 3,023,696, 3–6–62, Cl. 101—93.

Shireman, William R. : *See*—
Gwinn, Joseph M., Jr., O'Brien, and Shireman. 3,031,779.

Shires, James W. N., to Express Dairies (Northern) Ltd. Fully automatic machine for loading and unloading crates, boxes and like containers in stacks. 3,022,904, 2–27–62, Cl. 214—6.

Shirley, Julian W., and G. T. Gore, to Riegel Textile Corp. Apparatus for striping fabric material. 3,052,211, 9–4–62, Cl. 118—315.

Shirley, Marcus B., and A. M. Thomas, Jr., to Esso Research and Engineering Co. Caustic regeneration process. 3,044,-859, 7–17–62, Cl. 23—184.

Shirley, Sidney D., to Esso Research and Engineering Co. Improved process for operating a furnace. 3,052,287, 9–4–62, Cl. 158—117.5.

Shirley, Walter, P. Ramsden, and G. H. Nixon, to D. Napier & Son Ltd. Fuel supply systems for rocket engines. 3,017,-745, 1–23–62, Cl. 60—35.6.

Shirley, William J., ½ to Skifferolje Aktiebolaget, Svenska. Method of recovery from fossil fuel bearing strata. 3,061,-009, 10–30–62, Cl. 166—39.

Shirn, George A. : *See*—
Lebovec, Kurt, and Shirn. 3,061,461.

Shiroyanagi, Kenji : *See*—
Yabut, Teijiro, Ikeda, Shiroyanagi, Ikeda, Fujimaki, Katayama, Tsuji, and Sato. 3,049,535.

Shiu, Thomas B. : *See*—
Cummings, Thomas N., Peterson, and Shiu. 3,041,802.
Cummings, Thomas N., Peterson, and Shiu. 3,042,225.
Kumagai, Harry M., and Shiu. 3,039,388.

Shivack, Ian M. : *See*—
Chertoff, Allen B., and Shivack. 3,039,021.

Shive, William, and C. G. Skinner, Jr. Bicarbamic acid diesters and series. 3,043,861, 7–10–62, Cl. 260—482.

Shivek, Herbert L., to Eastern Steel Rack Co. Shelf bracket construction. 3,021,013, 2–13–62, Cl. 211—136.

Shively, Lyman R. : *See*—
Lenney, James F., and Shively. 3,039,936.

Shivers, Amos J., to Phillips Petroleum Co. Underground storage. 3,049,921, 8–21–62, Cl. 73—302.

Shivers, Joseph C., Jr. : *See*—
Schaefgen, John R., and Shivers. 3,044,987.

Shivers, Joseph C., Jr., to E. I. du Pont de Nemours and Co. Segmented copolyetherester elastomers. 3,023,192, 2–27–62, Cl. 260—75.

Shivers, Joseph C., Jr., to E. I. du Pont de Nemours and Co. Segmented copolymers. 3,044,989, 7–17–62, Cl. 260—77.5.

Shivers, Paul F., to Robertshaw-Fulton Controls Co. Control device. 3,044,295, 7–17–62, Cl. 73—339.

Shlaes, Jacquelen. Combination sofa-bed and table structure. 3,059,246, 10–23–62, Cl. 5—2.

Shlaes, Jacquelyn. Combination sofa-bed and table unit. 3,059,247, 10–23–62, Cl. 5—2.

Shlager, Abraham E. Square column. 3,050,161, 8–21–62, Cl. 189—38.

Shlesinger, Bernard E., Jr. Multiple contact switch. 3,047,683, 7–31–62, Cl. 200—26.

Shobe, Chester L., 1/10 to Gadget-of-The-Month Club, Inc. Apparatus for eliminating undesired air from the water of heating and cooling systems. 3,070,114, 12–25–62, Cl. 137—216.

Shoberg, Wayne D. Ventilators. 3,036,511, 5–29–62, Cl. 98—71.

Shobert, Erle I., II, to Stackpole Carbon Co. Engine ignition system cable. 3,045,199, 7–17–62, Cl. 338—66.

Shobert, Samuel M. Method of continuously making glass-reinforced plastic tubing. 3,033,729, 5–8–62, Cl. 154—83.

Shock, Frank E. Table tennis set mounting and retaining means. 3,064,823, 11–20–62, Cl. 211—15.

Shockley, Alvin, and J. Teng, to Nylonge Corp. Apparatus for the production of artificial sponge. 3,048,888, 8–14–62, Cl. 18—5.

Shockley, William : *See*—
Dacey, George C., Lee, and Shockley. 3,028,655.

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Shockley, William. Process for growing single crystals. 3,031,275, 4–24–62, Cl. 23—301.

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Baker, William A., and Shoemack. 3,032,461.

Shoemake, Harold R. : *See*—
Lauderdale, Jack D. 3,068,611.

Shoemaker, Carlyle E., to J. T. Baker Chemical Co. Process of purifying silane. 3,031,268, 4–24–62, Cl. 23—204.

Shoemaker, Carlyle E., and G. Sumrell, to J. T. Baker Chemical Co. Process of purifying silane. 3,041,141, 6–26–62, Cl. 23—204.
Shoemaker, Charles J.: *See*—
Brumfield, Richard S., Dwaayer, Shanty, and Shoemaker. 3,049,121.
Shoemaker, John V., to Lyon Inc. Wheel cover. 3,044,834, 7–17–62. Cl. 301—37.
Shoemaker, John V., to Lyon Inc. Wheel cover. 3,048,445, 8–7–62, Cl. 301—37.
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Shoemaker, John V., to Lyon Inc. Wheel cover. 3,055,712, 9–25–62, Cl. 301—37.
Shoemaker, Milton J.: *See*—
Onstad, Ragnar E., Shoemaker, Frohmader, and Rowe. 3,031,827.
Shoemaker, Milton J., to Research Products Corp. Plastic liquid protective coatings. 3,066,038, 11–27–62, Cl. 106—224.
Shoemaker, Paul S.: *See*—
Cramer, Thomas F., and Shoemaker. 3,039,480.
Shoemaker, Richard W. Process of recovering fresh water from salt water with a hot heavy material. 3,032,482, 5–1–62, Cl. 202—74.
Shoemaker, Robert C.: *See*—
Harris, Donald A., and Shoemaker. 3,054,521.
Shoemaker, Robert H., and J. A. Faler, to Kolene Corp. Method of cleaning metal strip continuously. 3,024,139, 3–6–62. Cl. 134—15.
Shoemaker, Robert M.: *See*—
Pankratz, A. J., Shoemaker, and Steen. 3,048,315.
Shoemaker, Robert R.: *See*—
Francis, Elliott S., and Shoemaker. 3,024,194.
Shokal, Edward C., to Shell Oil Co. Process for polymerizing unsaturated aldehydes. 3,044,996, 7–17–62, Cl. 260—80.
Shokal, Edward C., P. A. Devlin, and D. E. Winkler, to Shell Oil Co. Allyl glycidyl ether and vinyl acetate copolymers. 3,040,010, 6–19–62, Cl. 260—85.7.
Shold, William J. Poultry waterer. 3,052,215, 9–4–62, Cl. 119—78.
Sholeen, Robert G.: *See*—
Mall, Arthur W., and Sholeen. 3,040,789.
Sholin, Edwin E. Crushing machine with flexible drive. 3,020,832, 2–13–62. Cl. 100—233.
Sholin, William C. Hair drying attachment for clothes dryer. 3,064,360, 11–20–62, Cl. 34—91.
Sholtz, Mitchell D. Electrical system for bomb release mechanisms. 3,021,758, 2–20–62, Cl. 89—1.5.
Shomber, Kerian J., to United-Carr Fastener Corp. Aluminum grommet-stud. 3,060,112, 10–23–62. Cl. 204—197.
Shook, Adlum M., to Press Seal Gasket Corp. Pipe joint assembly. 3,048,415, 8–7–62, Cl. 277—170.
Shook, Donald H. to National-Standard Co. Bead building apparatus. 3,051,362, 8–28–62. Cl. 226—11.
Shook, Raymond E., Jr., to Sprout, Waldron, & Co., Inc. Pulp handling system, method and apparatus. 3,047,453, 7–31–62, Cl. 162—100.
Shook, Sheridan R., to The Magnavox Co. Remote control apparatus. 3,054,957, 9–18–62, Cl. 325—393.
Shoolery, James N.: *See*—
Bloch, Felix, Packard, and Shoolery. 3,068,399.
Shoolery, James N., to Varian Associates. Gyromagnetic resonance detection method and apparatus. 3,039,048, 6–12–62, Cl. 324—.5.
Shoolery, James N., and S. F. Varian, to Varian Associates. Gyromagnetic resonance method and apparatus. 3,068,398, 12–11–62, Cl. 324—.5.
Shoor, Bernard A., to Endeveo Corp. Testing system and insulated mounting therefor. 3,042,744, 7–3–62, Cl. 174—138.
Shoosmith, Guy T., to Plenty and Son Ltd. Volumetric output indicating device. 3,039,427, 6–19–62, Cl. 116—136.5.
Shoosmith, Guy T. Pump installation. 3,060,858, 10–30–62, Cl. 103—11.
Shoosmith, Guy T., to Plenty and Son Ltd. Variable-capacity rotary pumps. 3,065,706, 11–27–62, Cl. 103—120.
Shopalovich, Predrag: *See*—
Jones, Harold G., Chirlaco, and Shopalovich. 3,061,248.
Shope, Claude A., to Phillips Petroleum Co. Gas generator. 3,048,112, 8–7–62, Cl. 102—98.
Shope, Earl S. Cornea tome. 3,058,471, 10–16–62, Cl. 128—305.
Shop-O-Rama, Inc.: *See*—
Miller, William N., Jr. 3,030,855.
Shoquist, Robert H., to Warner Electric Brake & Clutch Co. Reversible coil type actuator for friction couplings. 3,040,856, 6–26–62. Cl. 192—81.
Shore, Alfred W.: *See*—
Fyfe, William A., and Shore. 3,045,739.
Shore, Charles. Extension ladder with removable anti-tilting brace. 3.059.723, 10–23–62, Cl. 182—107.
Shore, David T., to The A.P.V. Co. Ltd. Method and apparatus for the continuous filtration of brewers' mash. 3,057,726, 10–9–62, Cl. 99—52.
Shore, James C.: *See*—
Buonanno, Joseph E., and Shore. 3,046,185.
Shore, Jerome R.: *See*—
Kinzelman, Francis J. Re. 25,134.
Shores, Jerry B. Hanger construction. 3,042,217, 7–3–62, Cl. 211—45.
Shores, Samuel J. Drill rod coupling. 3,048,431, 8–7–62, Cl. 287—103.
Shorkey, Albert F., G. Powell, and J. S. Wilson, Jr., to The Dow Chemical Co. Packaging of anhydrous sodium hydroxide. 3,028,955, 4–10–62, Cl. 206—84.
Short, Brooks H.: *See*—
De Lorean, John Z., Shaw, and Short. 3,021,715.
Dyer, John W., Short, and Parker. 3,015,835.
Short Brothers & Harland Ltd.: *See*—
Brooke-Smith, Thomas W. 3.041.018.
Conway, Hugh G., and Ransom. 3,056,598.
Ransom, Richard S. 3,015,992.
Ransom, Richard S. 3,068,030.
Reid, Lawrence. 3,069,117.
Short, Franklin W. and E. F. Elslager, to Parke, Davis & Co. Schistosomiasis treatment. 3,057,776, 10–9–62, Cl. 167—55.
Short, Harold O., to The Black and Decker Mfg. Co. Shockproof brush holder assembly. 3,034,006, 5–8–62, Cl. 310—247.
Short, J. R., Milling Co.: *See*—
Beaber, Nathaniel J., and Obey. 3,043,826.
Ferrari, Charles G., and Higashiuchi. 3,047,406.
Short, James N., and F. W. Solomon, to Phillips Petroleum Co. Polymer compositions and improved process for vulcanization of rubbery hydroxy-containing polymers with polyisocyanates. 3,036,045, 5–22–62, Cl. 260—77.5.
Short, Joe R.: *See*—
Johnson, William A., and Short. 3,015,307.
Short, Joe T.: *See*—
Parker, Samuel P., and Short. 3.034.193.
Short, Joe T., and J. M. Smith, to Calloway Mills Co. Mop holder. 3,029,454, 4–17–62, Cl. 15—147.
Short, Oliver A., to E. I. du Pont de Nemours and Co. Method for forming an electrically conducting mark on a nonconducting surface. 3,032,443, 5–1–62, Cl. 117—212.
Shortell, Raymond E.: *See*—
Straub, Melvin J., Shortell, Lobash, Doying, and Jounen. 3,061,909.
Shotmeyer, Albert. Hydraulic lift. 3,061,044, 10–30–62, Cl. 187—8.41.
Shotton, James A., to Phillips Petroleum Co. Mixtures of acyclic polyhydroxy alcohols and glycol ethers and anticing additives for hydrocarbon fuels. 3,032,971, 5–8–62, Cl. 60—35.4.
Shotton, James A., and L. O. Edmonds, to Phillips Petroleum Co. Coating composition. 3,060,060, 10–23–62, Cl. 117—132.
Shotton, Thomas E., Jr. Portable dryer unit. 3,036,382, 5–29–62, Cl. 34—48.
Shotwell, Odette L.: *See*—
Cravenho, Renato, Shotwell, and Pridham. 3,017,327.
Shoudy, Albert A., Jr.: *See*—
Hanink, Dean K., Shoudy, and Thomson. 3,065,107.
Hanink, Dean K., Shoudy, Thomson, and Mette. 3,033,705.
Shoudy, Albert A., Jr., and E. G. Ross, to General Motors Corp. Process of coating austenitic steel, with chromium alloy coatings. 3,053,689, 9–11–62, Cl. 117—71.
Shoulders, Charles D. Engine supporting jig. 3,062,530, 11–6–62. Cl. 269—71.
Shoultes, Donald P.: *See*—
Wiggins, Joseph P., and Shoultes. 3,015,733.
Shoup, Edgar C., Jr., to United Aircraft Corp. Circumferential bleed valve. 3,030,006, 4–17–62, Cl. 230—114.
Shoup Electronics, Inc.: *See*—
Cohen, Albert. 3.034.711.
Shoup, Ransom F., and E. A. Fox, Sr., to Shoup Research and Development Corp. Party selecting mechanism for voting machine. 3,051,379, 8–28–62, Cl. 235—55.
Shoup, Ransom F., and E. A. Fox, Sr., to Shoup Research and Development Co. Voting machine. 3,054,557, 9–18–62, Cl. 235—50.
Shoup, Ransom F., and E. A. Fox, Sr., to Shoup Research and Development Corp. Voting machine. 3,063,623, 11–13–62, Cl. 235—55.
Shoup, Ransom F., and E. A. Fox, Sr., to Shoup Research and Development Corp. Voting machine. 3,067,929, 12–11–62. Cl. 235—54.
Shoup, Ransom F., and E. A. Fox, Sr., to Shoup Research and Development Corp. Voting machine. 3,069,076, 12–18–62, Cl. 235—54.
Shoup Research and Development Co.: *See*—
Shoup, Ransom F., and Fox. 3.051.379.
Shoup, Ransom F., and Fox. 3,054,557.
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Shoup, Ransom F., and Fox. 3,069,076.
Shoup Toll Collecting Devices. Inc.: *See*—
Bower, Clyde S. 3,048,251.
Lord, John G. 3,036,684.
Lord, John G. 3,044,048.
Show, Ralph W.: *See*—
Cross, Radley. 3,065,310.
Showalter, Edward W., Jr. Commutator and method of making same. 3,049,604, 8–14–62, Cl. 200—166.
Showers, Lewis M., Jr., and C. T. Biscardi. Automatic antiskid chains for vehicles. 3,027,927, 4–3–62, Cl. 152—214.
Shramek, Ladd C., to The Bendix Corp. Method for forming shell molded cores. 3,069,727, 12–25–62, Cl. 18—55.
Shramo, Daniel J.: *See*—
Stiglic, Paul M., Shramo, and Hehmeyer. 3,066,653.

Shreckhise, George W. Apparatus for coating fabrics. 3,036,-551, 5–29–62, Cl. 118—325.
Shreffler, Wesley E.: *See*—
Johnson, Leslie A., and Shreffler. 3,031,590.
Shreve, Curtis H.: *See*—
Richards, William H., Jr., and Shreve. 3,016,167.
Shrewsbury, Robert S., to Vic-Mar Corp. Nozzle. 3,022,016, 2–20–62, Cl. 239—521.
Shrewsbury, Robert S., to Vic-Mar Corp. Method of sectionizing citrus fruit. 3,030,995, 4–24–62, Cl. 146—236.
Shri Ram Institute for Industrial Research: *See*—
Chipalkatti, Vasant B., and Manivannan. 3,032,889.
Chipalkatti, Vasant B., and Manivannan. 3,042,480.
Masaguppi, Jayant A., and Chipalkatti. 3,036,922.
Shri Ram Institute For Industrial Research, Civil Lines: *See*—
Chipalkatti, Vasant B. and H. R., and Sharma. 3,066,-998.
Shrimplin, Ray E. Animal self-feeder. 3,040,707, 6–26–62, Cl. 119—53.5.
Shriner, Walter. Cigarette smoke filtration device. 3,064,657, 11–20–62, Cl. 131—10.
Shriver, Henry V.: *See*—
Harrison, Richard, III, Shriver, and Holland. 3,016,115.
Shrubsall, Arthur F. G. E. Claussen, N. G. Schreiner, and C. E. Jackson, to Union Carbide Corp. Metal arc welding, composition, and method of making same. 3,031,345, 4–24–62, Cl. 148—24.
Shrubsall, Arthur E., and K. W. Rimer, to Union Carbide Corp. Free-peeling submerged arc welding composition. 3,068,128, 12–11–62, Cl. 148—26.
Shrum, Calvin O. Pneumatic operator for trailer landing gear. 3,064,943, 11–20–62, Cl. 254—86.
Shrum, Curt M.: *See*—
Meador, Albert S., and Shrum. 3,055,211.
Shryock, Howard A.: *See*—
Fordyce, Homer E., and Shryock. 3,065,587.
Shryock, Wayne: *See*—
Marchus, Clarence E., and Shryock. 3,030,731.
Shubart, Harry S.: *See*—
Sieg, Burton L., and Shubart. 3,058,795.
Shubart, Harry S., to Emil J. Paidar Co. Barber chair arm structure. 3,042,451, 7–3–62, Cl. 297—422.
Shuey, Charles M.: *See*—
Kirby, Patricia W., and Shuey. 3,026,887.
Shuford Mills, Inc.: *See*—
Long, John R. 3,015,204.
Shuftan, Eugen J. Photocomposition systems. 3,059,525, 10–23–62, Cl. 88—16.
Shuk, John J., and D. R. Wilson, to Jenkins Bros. Valve. 3,055,391, 9–25–62, Cl. 137—516.25.
Shukys, Julius G., to Air Reduction Co., Inc. Process of making vinyl ether polymers. 3,022,280, 2–20–62, Cl. 260—91.1.
Shular, David M. Means for sewing buttons on garments. 3,023,422, 3–6–62, Cl. 2—265.
Shulertz, Joseph I., to Cadillac Overall Supply Co. Bowling pin duster. 3,051,484, 8–28–62, Cl. 273—43.
Shulgin, Alexander T., to The Dow Chemical Co. Amido- and imidophenyl methylcarbamate. 3,037,993, 6–5–62, Cl. 260—326.
Shulgin, Alexander T., to The Dow Chemical Co. Alpha amino substituted methylenemalononitriles. 3,057,864, 10–9–62, Cl. 260—247.
Shulgin, Alexander T., to The Dow Chemical Co. Aminophenyl carbamates. 3,060,225, 10–23–62, Cl. 260—479.
Shulkin, Irving: *See*—
Singer, Hyman, and Shulkin. 3,061,843.
Shull, Frank T. Alarm equipped cabinet for fire extinguisher. 3,042,910, 7–3–62, Cl. 340—280.
Shull, Gilbert M., to Chas. Pfizer & Co. Inc. 19-hydroxy pregnanes. 3,039,926, 6–19–62, Cl. 167—65.
Shull, Gilbert M., to Chas. Pfizer & Co. Inc. 19-hydroxylated Δ^4-pregnene derivatives. 3,040,038, 6–19–62, Cl. 260—239.55.
Shulman, Robert S.: *See*—
Grandy, Andrew J., and Shulman. 3,027,839.
Shulters, Robert B.: *See*—
Bos, John R., and Shulters. 3,028,108.
Shultz, James H.: *See*—
Boyer, William M., Schultz, and Zike. 3,043,798.
Shumacher, Eric, to Harwood Cabinets Ltd. Forming machines for wood and like materials. 3,063,483, 11–13–62, Cl. 144—266.
Shumaker, John F., to Bendix-Westinghouse Automotive Air Brake Co. Fluid pressure system. 3,057,540, 10–9–62, Cl. 230—1.
Shumaker, Lawrence E., to Eversman Mfg. Co. Tractor-mounted land leveler. 3,032,902, 5–8–62, Cl. 37—180.
Shumway, Carl K., Jr., to Bausch & Lomb Inc. Image rotating optical system. 3,030,857, 4–24–62, Cl. 88—29.
Shumway, Durland K.: *See*—
Schachter, William H., Shumway, and Murchison. 3,028,-221.
Shunk Mfg. Co.: *See*—
Irish, Warren B. 3,059,357.
Shunkwiler, Charles D.: *See*—
Mathews, George P., and Shunkwiler. 3,050,156.
Shupe, Marvin, and R. W. Boles. Floral piece foundation. 3,047,981, 8–7–62, Cl. 47—41.
Shurcliff, William A., to Polaroid Corp. Automatic focusing system. 3,037,423, 6–5–62, Cl. 88—26.
Shure Brothers, Inc.: *See*—
Bauer, Benjamin B. 3,055,988.
Shurhit Products, Inc.: *See*—
Neapolitakis, Nicholas T. 3,018,413.
Shur-Lok Corp.: *See*—
Kottsieper, Edward. 3,022,809.
Kreider, David B., and Delgadillo. 3,041,912.
Shurtleff O O: *See*—
Chatham, George N., and Shurtleff. 3,026,906.
Chatham, George N., and Shurtleff. 3,027,913.
Chatham, George N., and Shurtleff. 3,030,981.
Chatham, George N., and Shurtleff. 3,057,377.
Shurtz, Earl J. Package vending machine. 3,057,512, 10–9–62, Cl. 221—77.
Shuster, Myer M. Adjustable three roll inspection gage. 3.052.035, 9–4–62, Cl. 33—199.
Shustrom, Elmer N., to The Cadillac Co. Inc. Shutter. 3,046,619, 7–31–62, Cl. 20—62.
Shute, Clifton A.: *See*—
Brumley, Corwin H., and Shute. 3,029,693.
Shutt, Paul B., to The Bendix Corp. Master cylinder construction. 3,064,432, 11–20–62, Cl. 60—54.6.
Shutt, Paul B., to The Bendix Corp. Face seal in master cylinder. 3,068,651, 12–18–62, Cl. 60—54.6.
Shuttleworth, Cornelius J., and T. A. McConnell. Air quality gauge. 3,015,228, 1–2–62, Cl. 73—29.
Shuttleworth, Rose A., to United States of America, Army. Photoconductive locating device. 3,033,073, 5–8–62, Cl. 88—14.
Shuxteau, Eugene A.: *See*—
Davis, Raiph M., Shuxteau, and Long. 3,036,753.
Shuxteau, Eugene A., and J. J. Masi, to Container Corp. of America. Void-forming construction for pre-cast beams. 3,024,513, 3–13–62, Cl. 25—128.
Shwayder Bros., Inc.: *See*—
Axtell, Willard G. 3,029,915.
Craddock, Ronald G., and King. 3,037,831.
Gardner, David E., and King. 3,037,814.
Garmon, Lee F., Jr., and Axtell. 3,034,327.
King, Marvin M., and Moy. 3,041,110.
Strojnik, Aaron J., and Wallenstrom. 3,015,977.
Shwayder, Warren M. Process for applying tungsten carbide particles to a workpiece surface. 3,049,435, 8–14–62, Cl. 117—22.
Shwisha, Haim, to Orly Lite, Inc. Flashlight structure. 3,054,988, 9–11–62, Cl. 340—81.
Siangelis Associates Inc.: *See*—
Gottwald, Antonin. 3,046,975.
Sias, Roy C.: *See*—
Terry, Billy W., Sias, and Woods. 3,067,151.
Sias, Roy C., to Continental Oil Co. Alkyl aryl sulfonates. 3,035,082, 5–15–62, Cl. 260—505.
Sias, Roy C., and R. M. Tillman, to Continental Oil Co. Fuel additive for jet propulsion engines. 3,061,419, 10–30–62, Cl. 44—68.
Sibakin, George, and P. M. Audette, to The Steel Co. of Canada, Ltd. Process for the reduction of iron oxide. 3,029,141, 4–10–62, Cl. 75—34.
Sibbald, Frederick R., to The Hoover Co. Pulley drive for washing machine. 3,060,764, 10–30–62, Cl. 74—665.
Sibley, Henry C.: *See*—
Haner, Robert B., and Sibley. 3,021,506.
Sibley, John R., to Joy Mfg. Co. Mining apparatus having coring and bursting head swingable in horizontal planes. 3,052,454, 9–4–62, Cl. 262—9.
Sibley, John R., to Joy Mfg. Co. Mining machine having pivotally mounted cutters. 3,061,290, 10–30–62, Cl. 262—9.
Sibley, Robert C., to Sylvania Electric Products Inc. Magnetron tuner. 3,046,446, 7–24–62, Cl. 315—39.61.
Sibley, Robert C., to Sylvania Electric Products Inc. Detuning interfering magnetron modes. 3,069,595, 12–18–62, Cl. 315—39.69.
Sicard, Jean P., to Lenkurt Electric Co., Inc. Frequency doubling circuit. 3,044,004, 7–10–62, Cl. 321—4.
Sicedison A.p.A.: *See*—
Gechele, Giovanni B., Nenz, and Barberis. 3,020,284.
Sicedison S.p.A.: *See*—
Gatta, Giorgio, and Benetta. 3,049,520.
Schytil, Franz, Reh, Saccardo, and Dal Pozzo. 3,057,680.
Sich, Edward: *See*—
Burton, Robert W., and Sich. 3,047,345.
Sichak, William, to International Telephone and Telegraph Corp. Diversity combining system. 3,029,338, 4–10–62, Cl. 250—20.
Sichak, William, to International Telephone and Telegraph Corp. Sideband generator. 3,029,396, 4–10–62, Cl. 331—43.
Sicherman, Karl L. Portable folding steps. 3,035,671, 5–22–62, Cl. 189—43.
Sick, Erwin. Photoelectric scanning device. 3,062,965, 11–6–62, Cl. 250—236.
Sickinger, Hans A.: *See*—
Müller, Josef. 3,032,640.
Sickles, Ralph E., to Goodyear Aircraft Corp. Electroless nickel-phosphorous alloy plating bath and method. 3,060,-059, 10–23–62, Cl. 117—130.
Siculan, Daniel. Combination broom and dust pan. 3,029,-455, 4–17–62, Cl. 15—159.
Sidaris, Nickolas J.: *See*—
Loveland, Roger S., and Sidaris. 3,056,450.
Sidaris, Nickolas J., to Minneapolis-Honeywell Regulator Co. Dryer control system. 3,045,993, 7–24–62, Cl. 263—10.

Siddall, Don F., to The United States Stoneware Co. Process of blending a plasticizer with a vinyl resin. 3,048,557, 8–7–62, Cl. 260—30.6.

Siddeley Engines Ltd.: *See*—
Frost, Alan. 3,022,935.

Siddle, John K.: *See*—
Staehle, Haswell E., and Siddle. 3,053,198.

Siddliqui, Salimuzzaman. Rauwolfia alkaloidal complexes and process for insulating the same from Rauwolfia plant material. 3,047,562, 7–31–62, Cl. 260—236.

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Sidell, Philip A., to The Ingraham Co. Directional drive control for self-starting synchronous motors of either starting direction. 3,027,469, 3–27–62, Cl. 310—41.

Sidell, Philip A., to Barber-Colman Co. Motor and speed indicating apparatus. 3,041,520, 6–26–62, Cl. 318—490.

Sidell, Philip A., G. N. Kaniwec, and O. B. Burgeson, to The Ingrahman Co. 24-hour time alarm. 3,034,280, 5–15–62, Cl. 58—21.1.

Sidelman, Abraham, to H. Goodman & Sons, Inc. Ball tip bristle brush roller. 3,050,070, 8–21–62, Cl. 132—39.

Siden, Edward: *See*—
Buzzelli, Frank D., Goodwin, and Siden. 3,057,365.

Siderman, Joseph A., to United States of America, Army. Altitude controlled correlator. 3,069,668, 12–18–62, Cl. 340—178.

Sidersky, Lionel: *See*—
Lelbowitz, Alec. 3,063,921.

Sides, Harold I.: *See*—
Sides, Harold I. 3,022,593.
Welter, George I. 3,023,018.

Sides, Harold I., to H. I. and K. B. Sides. Tag display unit. 3,022,593, 2–27–62, Cl. 40—308.

Sides, Kitty B.: *See*—
Sides, Harold I. 3,022,593.

Sides, Wilmont L. Tree shaker. 3,041,811, 7–3–62, Cl. 56—328.

Sidi, Henri, to Heyden Newport Chemical Corp. Peroxide oxidation of polyhalobenzaldehydes. 3,069,461, 12–18–62, Cl. 260—525.

Sidi, Henri, to Heyden Newport Chemical Corp. Process for the production of dipentaerythritol. 3,069,475, 12–18–62, Cl. 260—615.

Sidler Ltd.: *See*—
Butterworth, Archibald J. 3,057,424.

Sidlo Joseph J., to Beltone Hearing Aid Co. Hearing aid. 3,055,990, 9–25–62, Cl. 179—107.

Sidney Machine Tool Co., The: *See*—
Gerchow, Wilbur R. 3,058,365.

Sidney, Milton M., and J. C. Goodrich, to Mailman Bros., d.b.a. Durham Enders Razor Co. Carton opener. 3,057,-058, 10–9–62, Cl. 30—2.

Sidney Roofing & Paper Co. Ltd.: *See*—
Lemon, Cecil G. 3,035,657.

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Sieben, Herschel J. Barrier wall for manhole construction. 3,041,838, 7–3–62, Cl. 61—41.

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Fleckenstein, Hans, Sieber, and Kiesow. 3,022,969.

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Siebert, Adam J.: *See*—
Schultz, Rudolph H., and Siebert. 3,068,731.

Siebert, Bertha E.: *See*—
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Siebert, Howard G. Window platform. 3,061,040, 10–30–62, Cl. 182—58.

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Siebert, Raymond C., to General Dynamics Corp. Tone arm suspension and balancing system. 3,028,161, 4–3–62, Cl. 274—23.

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Kiesskalt, Siegfried, Hulsen, and Otters. 3,069,016.

Siedel, Walter: *See*—
Soder, Alfons, and Siedel. 3,030,377.
Sturm, Karl, Siedel, and Weyer. 3,058,882.

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Belck, Lothar H., and Siedschlag. 3,039,524.

Siefen, Howard T.: *See*—
Aulbaugh, Johnnie M., Kramis, and Siefen. 3,020,313.

Siefker, Joseph A.: *See*—
Doelling, George L., and Siefker. 3,032,504.

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Sanström, Sixten A. 3,051,366.

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Siegel, Floyd G., to Hewlett-Packard Co. Cathode ray tube beam finder circuit. 3,040,206, 6–19–62, Cl. 315—22.

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Siegel, Sheldon, R. H. Pettebone, and E. J. Hanus, to Merck & Co., Inc. Method for rendering nicotinamide palatable. 3,070,508, 12–25–62, Cl. 167—81.

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Siegel, William J., and J. J. White, to ACF Industries Inc. Punching and riveting apparatus. 3,030,833, 4–24–62, Cl. 78—48.

Siegele, Frederick H.: *See*—
Milks, John E., Wystrach, and Siegele. 3,032,500.

Siegelman, Abraham: *See*—
Jacobson, Edward, and Siegelman. 3,020,548.

Siegemund, Richard, to Steidinger, Gebr. Recording and playback head for magnetic sound recorders. 3,067,294, 12–4–62, Cl. 179—100.2.

Siegenthaler, André: *See*—
Carrard, Florentin. 3,026,978.

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Sieger, George M., Jr., and J. F. Weidenheimer, to American Cyanamid Co. Metaphosphoric acid complexes of tetracycline and its analogs. 3,053,892, 9–11–62, Cl. 260—559.

Siegert, Charles L. Infra-red radiation monitor. 3,023,398, 2–27–62, Cl. 340—51.

Siegert, Walter. Bending tool for plastic tile. 3,020,590, 2–13–62, Cl. 18—19.

Siegfried, Walter: *See*—
Pitaroggia, Paolo G., and Siegfried. 3,052,253.

Siegler Corp., The: *See*—
Aalund, Thomas K., and Sullivan. 3,019,301.
Cecil, James R., and Stratton. 3,032,700.
Chirgwin, Keith M., and Stratton. 3,054,940.
Kahle, Hermann A. 3,032,699.
Krausz, Alfred. 3,032,701.
Parsen, Benjamin. 3,033,480.
Simpson, Arthur W. 3,038,576.

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Siegler, Inc.: *See*—
Fancher, Kenneth I. 3,067,694.
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Siegrist, Adolf E.: *See*—
Duennenberger, Max, Maeder, and Siegrist. 3,036,084.

Siegrist, Adolf E., and M. Duennenberger, to Ciba Ltd. Aminoplasts-containing layer form structure of improved resistance to light. 3,033,720, 5–8–62, Cl. 154—46.
Siegrist, Hans: *See*—
Benz, Jakob, Schneider, and Siegrist. 3,035,043.
Sielaff, William G., to Admiral Corp. Mounting for ultrasonic resonator rod. 3,054,380, 9–18–62, Cl. 116—137.
Sielicki, Alexander J., to A. O. Smith Corp. Method of flaw detection in a metal member. 3,020,745, 2–13–62, Cl. 73—15.
Siemens Edison Swan Ltd.: *See*—
Darlaston, Arthur J. H., and Alston. 3,027,313.
Deakin, Stanley T. 3,027,538.
Deakin, Stanley T. 3,038,703.
Drake, Bernard, and Hicks. 3,047,816.
Freestone, Roland, and Weir. 3,054,709.
Leslie, John D. 3,022,388.
Hailey, Albert M., and Clarke. 3,016,526.
Hitch, Eric G., Pells, and Fleetwood. 3,030,445.
Schaffer, Jeffrey, and Furby. 3,027,420.
Warman, Bloomfield J. 3,024,428.
Siemens-Electrogerate Aktiengesellschaft: *See*—
Sarukhanian, Georg. 3,043,119.
Siemens & Halske Aktiengesellschaft: *See*—
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Bauder, Josef, Steiner, Herrmann, and Jahn. 3,024,308.
Bidlingmaier, Meinrad, Schittko, and Manfreda. 3,041,532.
Bosch, Werner. 3,064,096.
Braumann, Gundokar. 3,053,953.
Buron, Oskar. 3,052,783.
Demmel, Georg. 3,053,939.
Deserno, Peter, and Schnädelbach. 3,043,973.
Donath, Bernhard. 3,069,676.
Eickhoff, Hans-Jurgen. 3,069,635.
Freystedt, Erich, and Nicolaus. 3,026,458.
Hennig, Fritz. 3,069,497.
Hiller, Rolf, Rutkowski, Krägeloh, Voegtlen, and Zahlhaas. 3,051,793.
Jabczynski, Hans J., Korber, and Voegtlen. 3,038,968.
Kafka, Wilhelm. 3,054,945.
Katz, Helmut. 3,069,585.
Keller, Wolfgang, and Emeis. 3,053,918.
Kniepkamp, Heinrich, and Rosenberger. 3,063,811.
Kroos, Friedrich-Karl. 3,056,044.
Laas, Kurt. 3,051,794.
Laas, Kurt. 3,053,937.
Lehrmann, Leon. 3,054,952.
Lohs, Willy, Paul, and Kallhardt. 3,043,917.
Lurk, Hans-Joachim, and Laas. 3,059,057.
Neumann, Helmut, and Drost. 3,037,092.
Nissl, Franz. 3,036,006.
Nitsch, Rudolf. 3,053,938.
Paul, Walter, Geese, Gober, and Greska. 3,051,799.
Pospischil, Reginhard, and Hulsebus. 3,064,209.
Reiser, Joseph. 3,053,638.
Rempka, Joachim K. O., Schmidt, and Woltersdorf. 3,040,176.
Rudolph, Hans. 3,040,122.
Rummel, Theodor. 3,051,555.
Schön, Freiwalt. 3,069,599.
Schoninger, Edgar. 3,064,146.
Siebertz, Karl. 3,036,892.
Steiner, Otto. 3,038,634.
Veith, Werner. 3,041,489.
Von Sanden, Dieter. 3,045,063.
Weissfloch, Andreas. 3,042,992.
Werner, Otto. 3,054,043.
Wetzger, Joachim, Neumann, and Wiesner. 3,054,924.
Siemens & Halske Aktiengesellschaft, Berlin & Munich: *See*—
Buser, Rudolf. 3,026,509.
Butzke, Fritz, Graml, and Voelcker. 3,026,371.
Fasserty, Gabor. 3,030,693.
Geyer, Hans, and Fischer. 3,019,375.
Kallhardt, Heinrich. 3,020,983.
Kneisel, Otto. 3,035,124.
Kraust, Rudolf, and Strabelt. 3,019,298.
Lohmann, Adalbert, Friess, Hinze, and Schmidt. 3,026,369.
Meigel, Helmut, Laas, and Papke. 3,026,376.
Nitsch, Rudolf. 3,033,939.
Rummel, Theodor. 3,021,198.
Rummel, Theodor. 3,031,270.
Schmidt, Werner. 3,035,213.
Schofer, Rudolf, Heywang, and Fenner. 3,027,529.
Siebertz, Karl, Henker, and Dorendorf. 3,035,183.
Wolak, Kurt, Karrer, and Rettig. 3,033,965.
Siemens & Halske Gesellschaft m.b.H.: *See*—
Sommer, Rudolf, and Muller. 3,035,998.
Siemens-Planiawerke A.G. fur Kohlefabrikate: *See*—
Ragoss, Alfred, Fitzer, Nedopil, and Buhmann. 3,035,308.
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Seeliger, Ernst, Kebbel, and v. Sanden. 3,058,470.
Siemens-Schuckertwerke Aktiengesellschaft: *See*—
Anke, Klaus, Kessler, and Ströle. 3,044,704.
Bergmann, Erich. 3,026,407.
Braün, Wolfgang. 3,036,965.
Bürklin, Gerlinde, and Kasten. 3,043,760.
Czulius, Werner. 3,023,360.
Duffing, Paul. 3,045,087.
Einsele, Arnold, Pratsch, and Slamecka. 3,038,116.
Siemens-Schuckertwerke Aktiengesellschaft: *See*—Continued
Emeis, Reimer. 3,030,194.
Emeis, Reimer. 3,041,225.
Emeis, Reimer. 3,043,375.
Emeis, Reimer. 3,046,405.
Emeis, Reimer. 3,050,667.
Frohlich, Heinz. 3,057,792.
Frohlich, Heinz. 3,057,795.
Grundeberg, Gerhard, Jung, Spengler, and Justi. 3,067,276.
Grüss, Heinz. 3,068,158.
Gutsche, Heinrich. 3,042,494.
Haas, Karl, and Voll. 3,021,147.
Henkel, Hans-Joachim, and Gremmelmaier. 3,041,508.
Herlet, Adolf, Spenke, and Emeis. 3,068,383.
Herschmann, Heinrich. 3,059,083.
Heuschel, Konrad, and Kersting. 3,057,690.
Hoffmann, Manfred. 3,068,369.
Hofmann, Viktor. 3,040,711.
Janner, Karl. 3,050,624.
Justi, Eduard, and Neumann. 3,021,378.
Keller, Wolfgang, and Hoffmann. 3,046,379.
Kersting, Arno. 3,068,078.
Kliesch, Günter. 3,068,391.
Kuhrt, Friedrich. 3,041,416.
Kuhrt, Friedrich, and Maaz. 3,042,887.
Maaz, Karl. 3,042,854.
Meissen, Wolfgang. 3,046,414.
Merkel, Hans. 3,021,196.
Michel, Rüprecht. 3,026,857.
Patalong, Hubert, and Herlet. 3,068,127.
Rossner, Wolfgang. 3,068,343.
Reuschel, Konrad, and Schink. 3,042,493.
Rolf, Erich. 3,015,791.
Rössner, Wolfgang. 3,035,142.
Schering, Hans. 3,041,144.
Schreiner, Horst, and Bohm. 3,059,040.
Schreyer, Karl, and Gaudich. 3,027,448.
Schweickert, Hans, Gutsche, and Emeis. 3,030,189.
Slamecka, Ernest. 3,064,183.
Vielstich, Wolf, Justi, and Winsel. 3,068,157.
Weppler, Rudolf. 3,048,765.
Wiehl, Klemens. 3,046,361.
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Skinner, Kenneth R., and Sienkiewicz. 3,018,329.
Sienko, Edward N.: *See*—
Kaplan, Robert, and Sienko. 3,029,778.
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Sierhuis, Paul J. C. Alarm repeating mechanism for an alarm clock. 3,018,612, 1–30–62, Cl. 58—21.12.
Siering, Robert L., to Johns-Manville Corp. Wallboard fastener. 3,020,602, 2–13–62, Cl. 40—4.
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Sierra Engineering Co.: *See*—
Bloom, Aaron, and Kindred. 3,035,594.
Kindred, Bob A. 3,028,573.
Morton, William D., Jr., and Wilcox. 3,035,573.
Stroup, Lelia P. 3,032,780.
Sierra Engineering Co., Inc.: *See*—
Mecham, Ferris J. 3,055,229.
Sierra, Frank: *See*—
Schubert, Alton J., and Sierra. 3,065,287.
Sierra, Huberto M., to International Business Machines Corp. Division system. 3,028,086, 4–3–62, Cl. 235—160.
Sierra, Huberto M., to International Business Machines Corp. Multiplier system. 3,033,455, 5–8–62, Cl. 235—160.
Sierra, Huberto M., to International Business Machines Corp. Floating decimal point arithmetic control means for calculator. 3,037,701, 6–5–62, Cl. 235—159.
Sierra, Huberto M., to International Business Machines Corp. Arithmetic circuit. 3,045,914, 7–24–62, Cl. 235—170.
Sierra, Huberto M., to International Business Machines Corp. Matrix arithmetic system with input and output error checking circuits. 3,063,636, 11–13–62, Cl. 235—153.
Sierra Metals Corp.: *See*—
Thielemann, Rudolf H. 3,026,198.
Thielemann, Rudolf H. 3,026,199.
Wilder, Arthur G. 3,041,688.
Sierracin Corp., The: *See*—
Brady, Irving E. 3,041,436.
Sies, Frank N. Devices for use in pump installations. 3,070-019, 12–25–62, Cl. 103—5.
Sieswerda, Bauke S.: *See*—
Fontein, Freerk J., and Sieswerda. 3,017,666.

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Sievers, Albert J : *See*—
Lee, Terry G., and Sievers. 3,070,725.

Sievers, Theodor : *See*—
Sennewald, Kurt, Wolfram, Kolb, Sievers, and Hoyer. 3,057,916.

Sievert, Dale W.: *See*—
Tice, William F., and Sievert. 3,069,610.

Sievert, Dale W., to Barber-Colman Co. Brush mounting for small commutator type motors. 3,025,421, 3–13–62, Cl. 310—245.

Sievert, James A., to Ansul Chemical Co. Portable hand fire extinguisher. 3,042,117, 7–3–62, Cl. 169—31.

Sievert, Max, Aktiebolaget : *See*—
Dahlgren, Tore V., and Ericsson. 3,070,154.
Ericsson, Karl E. 3,035,632.
Ericsson, Karl E. 3,065,745.

Sieverts, William C. Automatic release device. 3,034,750, 5–15–62, Cl. 244—150.

Sieving, Alfred W., and D. R. Greer, to Caterpillar Tractor Co. Brake control for tractor trailer combinations with retarder systems. 3,057,666, 10–9–62, Cl. 303—8.

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Siff, Elliott J. : *See*—
Saslovsky, Sidney, Machover and Siff. 3,018,965.

Sifferd, Robert H., to Armour and Co. Manufacture of vitamin B12. 3,033,849, 5–8–62, Cl. 260—211.5.

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Sifo Co. : *See*—
King, Bartley E. 3,058,237.

Sifrin, Andreas : *See*—
Seidl, Herbert, and Sifrin. 3,056,388.

Sigg, Hans, to Maag Gear Wheel & Machine Co. Ltd. Drive from a driving shaft to a driven shaft in a gear assembly distributed through two parallel intermediate shafts. 3,064,490, 11–20–62, Cl. 74—410.

Siggel, Erhard : *See*—
Heisenberg, Erwin, Siggel, and Lotz. 3,037,050.
Kleekamm, Fritz, and Siggel. 3,018,608.

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Sigl, Paul F. : *See*—
Klauss, Ralph E., and Sigl. 3,067,848.

Sigler, John E. : *See*—
Hicks, John E., and Sigler. 3,041,133.

Sigler, Richard J., to Reed Roller Bit Co. Tree or shrub remover. 3,017,709, 1–23–62, Cl. 37—2.

Sigler, Richard J., and J. J. Schnelbacher, to Reed Roller Bit Co. Excavation machine. 3,017,707, 1–23–62, Cl. 37—2.

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Sigma Engineering Service, Inc. : *See*—
Ianuzzi, Joseph N., and Bryner. 3,068,626.

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Benner, Winfield H., and Wynne. 3,031,582.

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Sigmon, Henry H., Jr. : *See*—
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Signal Mfg. Co. : *See*—
Smith, Aaron H. 3,019,042.
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Smith, Aaron H. 3,069,716.

Signal Oil and Gas Co. : *See*—
Hancock, Charles K. 3,020,252.

Signal-Stat Corp. : *See*—
Dickson, John B. 3,059,104.
Grontkowski, Raymond B. 3,040,207.
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Welsh, James W. 3,019,318.

Signode Steel Strapping Co. : *See*—
Cechner, Frank A., and Sterner. 3,041,961.
Crosby, George A., and Otto. 3,023,693.
Ericsson, Arvid I. 3,040,606.
Hollins, Jesse R. 3,057,261.
Kobiella, Robert J. 3,039,336.
Kuster, William F. 3,032,184.
Leslie, John H., and Dancz. 3,028,885.
Lingle, Harrison C. 3,048,204.
Lingle, Harrison C. 3,061,235.
Lingle, Harrison C., and Ohgren. 3,068,485.
Luth, Robert C. 3,058,689.
Martin, Hollinshead T., and Laughlin. 3,042,282.

Signo-Matic Ltd. : *See*—
Hirshhorn, Martin. 3,060,604.

Signore, Cresenzo A. and V. Locating devices. 3,068,578, 12–18–62, Cl. 33—75.

Signore, Virgil : *See*—
Signore, Cresuzo A. and V. 3,068,578.

Signorella, Albert. Ligature measuring device. 3,042,329, 7–3–62, Cl. 242—48.

Signorelli, Frank J., and H. B. Farrar, to General Dynamics Corp. Seal structure. 3,029,480, 4–17–62, Cl. 20—69.

Signorino, Charles A., to The Atlantic Refining Co. Method for the production of 4,4,5-trimethyl-metadioxane. 3,062,835, 11–6–62, Cl. 260—340.7.

Sigo, Arthur T. : *See*—
Hutton, Robert W., Sigo, and Adams. 3,046,352.

Sigoda, Victor J. Cutting device. 3,029,759, 4–17–62, Cl. 112—127.

Sigvardsson, Bejron K. G., and C. W. Gardner, to General Motors Corp. Electrostatic coating apparatus with rotary impeller. 3,067,949, 12–11–62, Cl. 239—15.

Sih, Charles J. : *See*—
Weisenborn, Frank L., and Sih. 3,056,838.

Sih, Charles J., and R. E. Bennett, to Olin Mathieson Chemical Corp. Dehydrogenation of steroids by dehydrogenase and hydrogen carrier. 3,047,469, 7–31–62, Cl. 195—51.

Sih, Charles J., and F. L. Weisenborn, to Olin Mathieson Chemical Corp. Process for preparing 9a-hydroxy steroids. 3,065,146, 11–20–62, Cl. 195—51.

Sihn, Wilhelm, Jr., K.-G. : *See*—
Kienhofer, Klaus. 3,017,780.
Langheck, Richard. 3,035,668.

Sihvonen, Yro T., to General Motors Corp. Light beam transducer. 3,058,002, 10–9–62, Cl. 250—211.

Siiberg, Hemming G., to Tung-Sol Electric Inc. Snap action switch. 3,032,620, 5–1–62, Cl. 200—67.

Siiberg, Hemming G., to Tung-Sol Electric Inc. Snap action device. 3,052,780, 9–4–62, Cl. 200—113.

Sijpesteijn, Antje K., to The Nederlandse Centrale Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek. Seed disinfection. 3,022,216, 2–20–62, Cl. 167—38.

Sikina, Thomas V., to United States of America, Air Force. Method of etching and etching solution for use therewith. 3,041,258, 6–26–62, Cl. 204—143.

Sikora, Stephen J., to United States of America, Navy. Autopilot force link. 3,023,495, 3–8–62, Cl. 244—76.

Sikorra, Daniel J., to Minneapolis-Honeywell Regulator Co. Signal processing apparatus. 3,041,479, 6–26–62, Cl. 307—106.

Silberbach, Richard O., to Motorola, Inc. Vehicle radio Osing Zener diodes to both regulate and filter the bias voltage supply. 3,059,109, 10–16–62, Cl. 250—20.

Silberger, Marvin E., to American Chain & Cable Co., Inc Motor brake. 3,025,938, 3–20–62, Cl. 192—2.

Silberglait, Harry : *See*—
Budofsky, Seymour S. 3,052,329.
Hillenbrand, George C. 3,052,946.

Silen, Almer A. Portable collapsible fire escape device. 3,042,143, 7–3–62, Cl. 182—163.

Silence, Neal C. : *See*—
Uebele, George S., and Silence. 3,038,131.

Silentbloc Ltd. : *See*—
Compton, Jack B. S. 3,030,132.
Hutton, Philip C. 3,055,687.

Silent Glow Oil Burner Corp., The : *See*—
Sherman, Rallston M. 3,070,047.

Silken, Howard. Radial arm saw table. 3,066,710, 12–4–62, Cl. 143—132.

Silker, Wyatt B., to United States of America, Atomic Energy Commission. Removal of radioactive ions from waters. 3,029,200, 4–10–62, Cl. 210—24.

Silks, Walter, to Goodman Mfg. Co. Lock-in clutch for continuous mining machines. 3,032,159, 5–1–62, Cl. 192—114.

Sill, Gustave A. : *See*—
Hall, William K., Sill, and Wolfe. 3,028,213.

Sillars, Frederick S. : *See*—
Baker, Corwin W., Brumby, Christensen, and Sillars. 3,030,038.
Sillars, Frederick S., to United Shoe Machinery Corp. Fastener packages. 3,031,670, 5–1–62, Cl. 1—56.
Sillars, Frederick S., to Campbell Soup Co. Method and apparatus for soldering cans. 3,056,368, 10–2–62, Cl. 113—61.
Sillcox, Edward L. : *See*—
Martin, Frank S., and Sillcox. 3,060,512.
Silliker, John H. : *See*—
Mink, Leon D., and Silliker. 3,028,245.
Silombra, Armando, to Superga Societa per Azioni. Rubber ski shoe. 3,050,874, 8–28–62, Cl. 36—2.5.
Silsby, Christopher C., Jr. : *See*—
Butler, Clarence A., Jr., and Silsby. 3,017,338.
Silsby, Stanley D. : *See*—
Packard, Charles F., and Silsby. 3,054,208.
Silson, Victor : *See*—
Joss, Ira, Lederberg, and Silson. 3,033,213.
Silva, Clarence A. : *See*—
Miller, Retha. 3,053,568.
Silva, Lawrence M. : *See*—
Fletcher, Taylor C., and Silva. 3,027,079.
Silva, Lawrence M., to Beekman Instruments, Inc. Automatic marginal checking apparatus. 3,027,542, 3–27–62, Cl. 340—147.
Silva, Luis. Cooking utensil. 3,020,826, 2–13–62, Cl. 99—426.
Silva, Paul F., to General Electric Co. Cyclic silane esters. 3,065,254, 11–20–62, Cl. 260—448.8.
Silva, Paul F., and N. G. Holdstock, to General Electric Co. Process for preparing organosilicon compounds. 3,067,-230, 12–4–62, Cl. 260—448.2.
Silva, Tony C. Method of transforming new bricks into bricks which simulate aged bricks. 3,043,040, 7–10–62, Cl. 41—26.
Silver, Alexander : *See*—
Le May, Jan B., Parker, Paul, Silver, Stein, and Wood. 3,060,686.
Riley, James H., Silver, and Powell. 3,032,056.
Silver, Alexander, to The Garrett Corp. Pneumatic control apparatus. 3,027,904, 4–3–62, Cl. 137—82.
Silver, Alexander, to The Garrett Corp. Relief valve. 3,032,-061, 5–1–62, Cl. 137—529.
Silver, Alexander, to The Garrett Corp. Waste gate control for supercharger turbines. 3,035,408, 5–22–62, Cl. 60—13.
Silver, Alexander, to The Garrett Corp. Manually piloted pressure operated valve. 3,036,587, 5–29–62, Cl. 137—219.
Silver, Alexander, to The Garrett Corp. Fluid pressure detector. 3,067,616, 12–11–62, Cl. 73—411.
Silver, Bertram S. Cabinet drawer. 3,063,774, 11–13–62, Cl. 312—322.
Silver, Carlton : *See*—
Carter, Charles C. 3,032,121.
Silver Creek Precision Corp. : *See*—
Donofrio, Alfonso M. 3,020,939.
Donofrio, Alfonso M. 3,036,604.
Donofrio, Thomas F. 3,021,001.
Silver, Edward A., to Sperry Rand Corp. Device having roll covered with sandpaper. 3,028,656, 4–3–62, Cl. 222—312.
Silver, Eugene G. Rod support and holder. 3,033,502, 5–8–62, Cl. 248—38.
Silver, Jules, and G. Fuller ; said Fuller assor. to said Silver. Disposable hypodermic syringe. 3,052,239, 9–4–62, Cl. 128—218.
Silver, Jules, and G. Fuller ; said Fuller assor. to said Silver. Disposable hypodermic syringe. 3,052,240, 9–4–62, Cl. 128—218.
Silver, Julian, to Instant-Fold Products, Inc. Collapsible cover for three-dimensional articles. 3,022,808, 2–27–62, Cl. 150—52.
Silver, Louis J. Scouring device. 3,060,478, 10–30–62, Cl. 15—209.
Silver, Nathaniel : *See*—
Eck, Robert A., and Silver. 3,049,599.
Muehnick, Paul, Tanner, Silver, and Helterline. 3,042,848.
Silver, Reba J. Emergency net. 3,027,967, 4–3–62, Cl. 182—137.
Silver, Saul H. : *See*—
Ehrsam, George W., Jr., Rubinowitz, and Silver. 3,064,552.
Silver, Stan M. Carton with spout. 3,057,533, 10–9–62, Cl. 229—17.
Silver, Stan M. Carton with integral dispensing spout. 3,057,534, 10–9–62, Cl. 229—17.
Silver, Stanley H. : *See*—
Topper, John M., and Silver. 3,040,454.
Silver, Warner C. Self-propelled reversing vehicle. 3,016,-024, 1–9–62, Cl. 104—149.
Silverberg, Bernard M., and F. D. Jones, to Deere & Co. Coupling for power takeoff shaft. 3,070,393, 12–25–62, Cl. 287—130.
Silverberg, Morton : *See*—
Welsh, Herbert F., Appleton, and Silverberg. 3,021,512.
Silverman, Arnold L. : *See*—
Bacon, Arnold, Silverman, and Cote. 3,023,435.
Silverman, Arthur. Awning type window structure with locking means. 3,045,296, 7–24–62, Cl. 20—42.
Silverman, Benjamin B. System and apparatus for hydroponic growing. 3,053,011, 9–11–62, Cl. 47—38.
Silverman, Bernard P., H. W. Cordes, and F. Maurer, to Friden, Inc. Recording apparatus. 3,054,556, 9–18–62, Cl. 235—23.
Silverman, Bernard R., R. J. Carroll, A. E. Simkins, J. Di Geambeardino, and J. L. Jones, to United States of America, Navy. Life vest preserver. 3,068,500, 12–18–62, Cl. 9—338.
Silverman, Daniel. High voltage electrostatic demonstration apparatus. 3,028,685, 4–10–62, Cl. 35—19.
Silverman, Daniel, to Pan American Petroleum Corp. Explosive charge coupler. 3,057,296, 10–9–62, Cl. 102—21.6.
Silverman, Herman : *See*—
Silverman, Ira. 3,023,832.
Silverman, Ira, 50% to H. Silverman. Swimming pool ladder. 3,023,832, 3–6–62, Cl. 182—93.
Silverman, Joseph, to Associated Nucleonics, Inc. Energy source device. 3,031,519, 4–24–62, Cl. 136—89.
Silverman, Leslie, to United States of America, Atomic Energy Commission. Method of removing radioactive iodine from gases. 3,018,159, 1–23–62, Cl. 23—2.
Silverman, Leslie. Method and apparatus for forming and utilizing a filter medium. 3,063,216, 11–13–62, Cl. 55—22.
Silverman, Louis, and R. A. Sallach, to North American Aviation, Inc. Removal of alkali metals from inaccessible locations. 3,044,869, 7–17–62, Cl. 75—66.
Silverman, Melvin H. Releasable hinge assembly. 3,055,015, 9–25–62, Cl. 4—240.
Silverman, Richard J. Portable telescopic outdoor electric lantern. 3,015,720, 1–2–62, Cl. 240—25.
Silverman, Solly. Ball pick-up devices for mixing machines. 3,044,780, 7–17–62, Cl. 273—144.
Silverman, William B., to Owens-Illinois Glass Co. Furnace construction method. 3,021,645, 2–20–62, Cl. 50—153.
Silvers, Charles. Panel gate. 3,022,045, 2–20–62, Cl. 256—73.
Silverschotz, Stanford B., and S. Schreiber, to International Telephone and Telegraph Corp. Electric motor. 3,054,011, 9–11–62, Cl. 310—268.
Silversher, Herman L. : *See*—
Barnes, James F., and Silversher. 3,044,498.
Silverstein, Martin S. : *See*—
Kirshner, Howard A., and Silverstein. 3,066,486.
Silverstein, Melvin F. : *See*—
De Claris, Nicholas, Jelatis, and Silverstein. 3,031,076.
Silverstein, Robert M. : *See*—
Nutting, Lee, Silverstein, and Himel. 3,033,875.
Nutting, Lee, Silverstein, and Himel. 3,041,351.
Silverstolpe, Karl O. L. Apparatus for aseptically pouring a bacteriological substrate or the like into cover-carrying vessels. 3,050,915, 8–28–62, Cl. 53—111.
Silverstone, Joseph : *See*—
Spidy, Alexander R., and Silverstone. 3,048,303.
Silverstone, Joseph. Inflatable life-rafts. 3,034,154, 5–15–62, Cl. 9—11.
Silverstone, Joseph. Inflatable structures. 3,054,124, 9–18–62, Cl. 9—11.
Silverstone, Joseph, and I. B. Wright, to P. Frankenstein & Sons (Manchester) Ltd. Immersion-responsive actuator for valves or other devices. 3,029,982, 4–17–62, Cl. 222—5.
Silvestri, Giuliana : *See*—
Monaco, Werner, Notarbartolo, and Silvestri. 3,022,291.
Silvestri, Michael A. : *See*—
Goldstein, Herman B., and Silvestri. 3,049,446.
Silvey, Leonard L. Rodent poison container and feeder. 3,025,630, 3–20–62, Cl. 43—131.
Silvis, Robert T. Combined bulk milk and whey tank. 3,054,-525, 9–18–62, Cl. 220—16.
Sima, George A. : *See*—
Chittenden, Windsor N., and Sima. 3,037,782.
Siman, Alfred W. : *See*—
Doubleday, Ralph S., and Siman. 3,054,552.
Sima-Societa Lesina Macchine Agrarie-Soc. p. Az. : *See*—
Golfieri, Oberdan. 3,055,308.
Simeca S.A. : *See*—
Rossetti, Charles. 3,053,149.
Simek, John G. : *See*—
Kunzleman, Harry C., and Simek. 3,015,732.
Simendinger, Joseph A., to Sizer Mfg. Co. Contact wheels. 3,029,566, 4–17–62, Cl. 51—141.
Simeone, John : *See*—
Schueler, Frederick W., Simeone, Delin, and Oxland. 3,056,606.
Simerl, R. A. Wall receptacle. 3,041,570, 6–26–62, Cl. 339—36.
Simi, Hendrick E., to South Chester Corp. Fastening device. 3,060,538, 10–30–62, Cl. 24—221.
Simili, Fabrik feiner Schleifprodukt : *See*—
Flad, Hermann, Knoll, and Von Imffeld. 3,039,280.
Simison, Allen L., to Owens-Corning Fiberglas Corp. Roofing felt. 3,015,582, 1–2–62, Cl. 117—126.
Simjian, Luther G., to Universal Match Corp. Key device. 3,036,297, 5–22–62, Cl. 340—274.
Simjian, Luther G., to Universal Match Corp. Deposit exchange machine including image recording means. 3,038,-157, 6–5–62, Cl. 346—22.
Simjian, Luther G., to Universal Match Corp. Subscriber controlled apparatus. 3,039,582, 6–19–62, Cl. 194—4.
Simjian, Luther G., to General Research, Inc. Bowling alley. 3,039,772, 6–19–62, Cl. 273—39.
Simjian, Luther G., to Universal Match Corp. Depository machine combined with camera means. 3,042,919, 7–3–62, Cl. 346—22.

Simjian, Luther G., to Universal Match Corp. Depository machine combined with camera means. 3,042,920, 7–3–62, Cl. 346—22.
Simjian, Luther G., to Reflectone Electronics, Inc. Training device for motor vehicle. 3,043,020, 7–10–62, Cl. 35—11.
Simjian, Luther G., to Universal Match Corp. Receptacle for depository apparatus. 3,049,312, 8–14–62, Cl. 242—56.1.
Simjian, Luther G., to Universal Match Corp. Depository machine combined with image recording means. 3,056,132, 9–25–62, Cl. 346—22.
Simjian, Luther G., to Universal Match Corp. Depository machine. 3,056,133, 9–25–62, Cl. 346—22.
Simjian, Luther G., to Universal Match Corp. Article vending machine. 3,061,143, 10–30–62, Cl. 221—2.
Simjian, Luther G., to Universal Match Corp. Beverage brewing apparatus. 3,064,553, 11–20–62, Cl. 99—289.
Simkevich, John C. : *See*—
Burgeni, Alfred A., and Simkevich. 3,067,745.
Simkin, Jacob. Method of improving beverages produced by fermentation by means of protein derivatives. 3,066,025, 11–27–62. Cl. 99—35.
Simkins, Albert E. : *See*—
Silverman, Bernard R., Carroll, Simkins, Di Geambeardino, and Jones. 3,068,500.
Simkins, Daniel, to Continental Can Co., Inc. Collapsible and expendable pallet. 3,026,078, 3–20–62, Cl. 248—120.
Simko, Joseph P., Jr. : *See*—
Strohmayer, Herbert F., Minckler, Simko, and Stogryn. 3,066,123.
Simkus, Neris J. : *See*—
Arthur, Richard P., and Simkus. 3,038,977.
Simm, Clarke N., to California Research Corp. Method of controlling an underground combustion zone. 3,026,937, 3–27–62, Cl. 166—39.
Simm, Eugene L. : *See*—
Gregoire, Resta S., and Simm. 3,040,636.
Simmen, Robert, to Mefina S.A. Projectile fuze for a gun with rifled bore. 3,039,392, 6–19–62, Cl. 102—71.
Simmen, Robert, and R. Morel, to Mefina S.A. Mechanical time fuzes, particularly for a submarine explosive charge. 3,030,887, 4–24–62, Cl. 102—84.
Simmie, Walter S., to Pressed Steel Co. Ltd. Resistance welding. 3,053,973, 9–18–62, Cl. 219—116.
Simmie, Walter S., D. A. Bywater, and D. Robinson, to Pressed Steel Co. Ltd. Resistance welding. 3,053,972, 9–11–62, Cl. 219—111.
Simmie, Walter S., D. A. Bywater, and D. Robinson, to Pressed Steel Co. Ltd. Resistance welding. 3,053,974, 9–11–62, Cl. 219—116.
Simmler, Walter : *See*—
Kopnick, Horst, Delfs, and Simmler. 3,040,080.
Simmon, Alfred, to Simmon Bros., Inc. Exposure control device for photographic color print apparatus. 3,027,801, 4–3–62, Cl. 88—24.
Simmon, Alfred, to Simmon Bros., Inc. Illuminating apparatus for photographic printers and enlargers. 3,028,483, 4–3–62, Cl. 240—41.35.
Simmon, Alfred, and L. L. Weisglass, to Simmon Brothers, Inc. Exposure control apparatus for making color prints. 3,069,971, 12–25–62, Cl. 88—24.
Simmon Bros., Inc. : *See*—
Simmon, Alfred. 3,027,801.
Simmon, Alfred. 3,028,483.
Simmon, Alfred, and Weisglass. 3,069,971.
Simmonds Aerocessories, Inc. : *See*—
Cohn, Irving H., and Thaler. 3,068,695.
Loeber, Donald E. 3,069,265.
Morris, John N., and Hossack. 3,068,794.
Simmonds Aerocessories Ltd. : *See*—
Jones, Ernest. 3,025,931.
Machen, James F. 3,046,894.
Ryder, Frederick, and Fishman. 3,015,233.
Simmonds, Milo R., to E. H. Replogle. Fluid motor. 3,056,378, 10–2–62, Cl. 116—70.
Simmonds, Milo R. Fastening methods and means for structural sandwiches. 3,061,054, 10–30–62, Cl. 189—34.
Simmonds Precision Products, Inc. : *See*—
Eostwick, Norvan W. 3,055,305.
Edwards, Harrison F. 3,050,999.
Machen, James F. 3,068,798.
Mathews, Edward C. 3,040,458.
Morris, John N., and Hossack. 3,068,794.
Smith, Stanley J. 3,022,665.
Simmonds, William H., to Westinghouse Electric Corp. Grid making machine. 3,029,844, 4–17–62, Cl. 140—71.5.
Simmons, Bill J. : *See*—
Smith, Raymond B., Simmons, and Hall. 3,024,365.
Simmons, Bill J., to Phillips Petroleum Co. Composition analyzer utilizing radiation. 3,017,252, 1–16–62, Cl. 23—260.
Simmons Co. : *See*—
Constanti, James A. 3,032,781.
Hausted, Ray K. 3,021,534.
Johnson, Nels. 3,016,852.
Kinnebrew, Joseph E. 3,030,147.
Mayer, Edwin H. 3,045,259.
Mayer, Edwin H. 3,059,250.
Williams, Earl L. 3,027,895.
Simmons, Donald M., Jr., to Homestead Valve Mfg. Co. Dual phase spray generator. 3,049,302, 8–14–62, Cl. 239—75.
Simmons, Edward C. : *See*—
Jacobs, James W., and Simmons. 3,036,442.
Simmons, Harold C., to Parker-Hannifin Corp. Variable area valve. 3,042,317, 7–3–62, Cl. 239—453.
Simmons, Harry M. : *See*—
Came, George E., and Simmons. 3,047,031.
Simmons, Henry T. Cop grip holder for a weaver's shuttle. 3,037,530, 6–5–62, Cl. 139—198.
Simmons, Howard E., Jr., to E. I. du Pont de Nemours and Co. Omega-hydropolyfluoroperhaloalkanones and ketals thereof. 3,029,252, 4–10–62, Cl. 260—340.9.
Simmons, Howard E., Jr., to E. I. du Pont de Nemours and Co. Polymeric secondary alcohols having recurring alpha-hydroxy amide groups. 3,048,570, 8–7–62, Cl. 260—87.3.
Simmons, Howard E., Jr., to E. I. du Pont de Nemours and Co. Reaction products of aromatic amines with polycyano heterocyclic compounds. 3,052,681, 9–4–62, Cl. 260—288.
Simmons, James F. : *See*—
Couty, Donald E., and Simmons. 3,066,600.
Simmons, Joe B. Settling and screening device for fluid conduits. 3,040,898, 6–26–62, Cl. 210—312.
Simmons, Joe J. Apparatus for electrolytic dental desensitization. 3,019,787, 2–6–62, Cl. 128—172.1.
Simmons, John A. Adjustable microphone stand. 3,040,137, 6–19–62, Cl. 179—148.
Simmons, Lance L., to American Radiator & Standard Sanitary Corp. Air moving unit. 3,035,760, 5–22–62, Cl. 230—125.
Simmons, Milton E., C. J. Finsterwalder, and F. J. Terkoski, to General Motors Corp. Dynamo electric machine. 3,021,444, 2–13–62, Cl. 310—259.
Simmons, Milton E., C. J. Finsterwalder, and F. J. Terkoski, to General Motors Corp. Frame and core assembly for a dynamo electric machine. 3,045,137, 7–17–62, Cl. 310—258.
Simmons, Milton E., and C. J. Finsterwalder, to General Motors Corp. Folding top actuation mechanism. 3,049,935, 8–21–62, Cl. 74—424.8.
Simmons, Milton L. Method and apparatus for high pressure botanical impregnation. 3,069,809, 12–25–62, Cl. 47—57.5.
Simmons, Ray E. : *See*—
Ludowici, Richard E., Lukins, and Simmons. 3,042,568.
Simmons, Wallace R., and L. J. Koch, to United States of America, Atomic Energy Commission. Sodium-water heat exchanger. 3,029,796, 4–17–62, Cl. 122—32.
Simmons, Walter R., to Townsend Co. Mechanism for setting rivets. 3,038,626, 6–12–62, Cl. 218—42.
Simmons, Walter R., to Townsend Co. Fluid powered gun for setting fasteners. 3,039,270, 6–19–62, Cl. 60—54.5.
Simmons, William H., and M. Stoit, to United States of America, Army. Stabilization boom for aircraft encapsulated seat. 3,015,462, 1–2–62, Cl. 244—122.
Simms Motor Units Ltd. : *See*—
Bradbury, Cyril H. 3,061,106.
Bradbury, Cyril H., and Friedlander. 3,061,105.
Shimwell, Rodney H., and Robinson. 3,041,525.
Simms, Paul R., to Teletype Corp. Paper roll carrier for printing telegraph apparatus. 3,033,339, 5–8–62, Cl. 197—133.
Simms, Philip W. Light dimming attachment. 3,016,454, 1–9–62, Cl. 240—46.03.
Simms, Robert L., Jr., to Bell Telephone Laboratories, Inc. Selector circuits for telephone switching systems. 3,033,936, 5–8–62, Cl. 179—18.
Simms, T. S., & Co. Ltd. : *See*—
Barr, George M. 3,047,198.
Patriquen, Andrew O. 3,050,337.
Simnad, Massoud T. : *See*—
Goeddel, Walter V., and Simnad. 3,031,389.
Simnad, Massoud T., to United States of America, Atomic Energy Commission. Method for forming a coating of molybdenum carbide on a carbon body. 3,028,256, 4–3–62, Cl. 117—46.
Simon, Abraham G. : *See*—
Carrigan, William H., and Simon. 3,068,348.
Simon, Albert, to United States of America, Atomic Energy Commission. Destruction of neutral particles in a device for producing a high density plasma. 3,032,490, 5–1–62, Cl. 204—154.2.
Simon, Albert E., Jr., and R. J. Cavaliere, to The Esterbrook Pen Co. Fountain pens. 3,040,708, 6–26–62, Cl. 120—45.4.
Simon, Albert E., Jr., and H. E. Steinberg, to The Esterbrook Pen Co. Clip mountings for fountain pens. 3,041,693, 7–3–62, Cl. 24—11.
Simon, Allan I. : *See*—
Ruekberg, Herbert S., and Simon. 3,025,561.
Simon, Andre, to Ateliers Heuze, Malevez et Simon Reunis, Societe Anonyme. Equipment for moving from one level to another the units of automatic conveyor tables. 3,045,806, 7–24–62, Cl. 198—85.
Simon-Carves Ltd. : *See*—
Chick, James E., and Symington. 3,048,273.
Landau, Manfred, Todhunter, and Kennaway. 3,061,421.
Piotrowski, Tadeusz V. 3,060,865.
Simon, Edward M., Jr., to Atlas Chemical Industries Inc. Spinning of viscose. 3,041,132, 6–26–62, Cl. 18—54.
Simon, George : *See*—
Maier, Richard J. 3,049,207.
Simon, George, to Kay Mfg. Corp. Spring unit for furniture backs. 3,039,762, 6–19–62, Cl. 267—101.
Simon, Henri J. H., to Stamicarbon N.V. Process of preparing nickel-aluminum or cobalt-aluminum alloys starting from Raney catalysts. 3,036,909, 5–29–62, Cl. 75—27.

Simon, Henry, Ltd. : *See*—
Allen, Robert W. 3,035,868.
Bromley, Harold. 3,045,562.
Brown, Thomas J. A., Spencer, and Grady. 3,028,053.
Easter, John W., and Higham. 3,059,552.
Matthews, Roy. 3,057,475.
Spencer, Frederick, and Jones. 3,033,621.

Simon, Ivan, to Owens-Corning Fiberglas Corp. Method for optical measurement of fiber diameters. 3,069,964, 12–25–62, Cl. 88—14.

Simon, James P., to General Electric Co. Lift fan support arrangement for aircraft. 3,061,243, 10–30–62, Cl. 244—23.

Simon, Jean-Claude : *See*—
Biggi, Victor, and Simon. 3,022,419.

Simon, John. Watch winding system with watertight crown. 3,060,677, 10–30–62, Cl. 58—90.

Simon, John P., to International Harvester Co. Transmission for vehicles. 3,022,683, 2–27–62, Cl. 74—759.

Simon, John P., to United States of America, Atomic Energy Commission. Apparatus for shearing tubular jackets. 3,052,142, 9–4–62, Cl. 82—54.

Simon, Joseph, and W. E. Pollock, to General Precision, Inc. Head for variable reluctance converter. 3,051,943, 8–28–62, Cl. 340—347.

Simon, Myron S. : *See*—
Blout, Elkan R., Green, Rogers, Simon, and Woodward. 3,019,107.
Blout, Elkan R., and Simon. 3,047,386.
Green, Milton, and Simon. 3,022,166.

Simon, Paul, to The Sherwin-Williams Co. Fire retardant protective and decorative coatings. 3,021,293, 2–13–62, Cl. 260—3.3.

Simon, Ralph, J. E. Voorhees, J. A. Hoess, and V. C. Frisby, to Fairchild Stratos Corp. High flotation landing gear. 3,052,429, 9–4–62, Cl. 244—103.

Simon, Robert H. M. : *See*—
Latinen, George A., and Simon. 3,067,812.

Simon, Roger : *See*—
Leroy, Pierre, and Simon. 3,053,525.
Leroy, Pierre, and Simon. 3,062,524.

Simon, Selwyn, M. W. Toepper, and H. E. Kasting, to Union Carbide Corp. Apparatus for use in the production of shaped meat products. 3,039,382, 6–19–62, Cl. 100—219.

Simon, Wayne E., to North American Aviation, Inc. Temperature probe. 3,016,745, 1–16–62, Cl. 73—349.

Simon, Wilhelm, to Ciba Ltd. Glass for making electrodes for determining pH-values. 3,025,174, 3–13–62, Cl. 106—52.

Simon, William E. : *See*—
Levin, William G., and Simon. 3,057,002.
Levin, William G., and Simon. 3,067,451.

Simonart, Paul. Method of pasteurizing. 3,058,833, 10–16–62, Cl. 99—212.

Simonds Abrasive Co. : *See*—
Kohn, William III. 3,069,817.

Simonds, George D., R. W. Stieg, K. A. McLyman, and A. V. Larson, to FWD Corp. Double universal joint. 3,050,963, 8–28–62, Cl. 64—21.

Simonds, Milton R. : *See*—
Salzberg, Harold K., and Simonds. 3,018,280.

Simonds, Patrick W. Wrist reel. 3,044,732, 7–17–62, Cl. 242—96.

Simonds Saw and Steel Co. : *See*—
Wilcox, Walter M. 3,036,486.

Simonds Worden White Co. : *See*—
Douglass, Thomas E., and Tilton. 3,032,404.

Simone, Dominic : *See*—
Herman, Daniel F., Resnick, and Simone. 3,050,504.

Simone, Dominic, and D. F. Herman, to National Lead Co. Aqueous phase polymerization of vinyl monomers with organic peroxytalysts. 3,037,004, 5–29–62, Cl. 260—80.

Simone, Dominic, and D. F. Herman, to National Lead Co. Aqueous phase polymerization of vinyl and related monomers. 3,053,817, 9–11–62, Cl. 260—80.

Simonen, Paul A. : *See*—
Heckman, John F., and Simonen. 3,066,109.

Simonet, John F., and C. P. Castle. Proteinizing green forage plant material. 3,063,839, 11–13–62, Cl. 99—2.

Simonian, John V. : *See*—
Kroll, Harry, Simonian, and Knell. 3,038,793.

Simonin, Raymond F., and M. Bernard. Dynamic method of liquid-phase aerobic fermentations, and products obtained therefrom. 3,041,181, 6–26–62, Cl. 99—147.

Simonis, Edward A., to The De Havilland Engine Co. Ltd. Auxiliary gas supply from gas turbine engine and aircraft fitted therewith. 3,058,695, 10–16–62, Cl. 244—42.

Simoniz Co. : *See*—
Branton, Philip L. 3,067,156.
Strandskov, Carl V. 3,042,631.

Simons, Allison K., A. O. Radke, and H. N. Tengler, to Bostrom Corp. Vehicle seat rebound control. 3,061,260, 10–30–62, Cl. 248—399.

Simons, John C., Jr. : *See*—
Roehrig, Jonathan R., and Simons. 3,065,060.

Simons, John C., Jr., to National Research Corp. Improvement in vacuum coating apparatus comprising an ion trap for the electron gun thereof. 3,046,936, 7–31–62, Cl. 118—49.1.

Simons, Joseph : *See*—
Hadfield, Harry R., Ricketts, Simons, and Stephen. 3,042,477.

Simons, Keneth A., to Jerrold Electronics Corp. Directional coupler. 3,048,798, 8–7–62, Cl. 333—10.

Simons, Raymond S., 55% to American National Bank & Trust Co. of Chicago, trustee, and 5% to S. R. Wittelle. Method and means for controlling brightness and depth of focused images. 3,035,489, 5–22–62, Cl. 88—57.

Simons, Walford J. L., and G. J. White, to Rotax Ltd. Actuating mechanism for railway points. 3,051,421, 8–28–62, Cl. 246—401.

Simpelaar, Clyde S., to Modine Mfg. Co. Method of fabricating heat exchangers. 3,021,804, 2–20–62, Cl. 113—118.

Simpelaar, Clyde S., to Modine Mfg. Co. Method of bonding and/or coating metals. 3,069,765, 12–25–62, Cl. 29—470.

Simpkin, Kenneth H. : *See*—
Barber, Ernest E., and Simpkin. 3,049,297.
Barber, Ernest E., and Simpkin. 3,049,298.

Simpkins, Lyle M. Headlight control. 3,058,030, 10–9–62, Cl. 315—82.

Simpkins, Nathaniel J., to Miss Georgia Dairies, Inc. Crate stacker. 3,037,645, 6–5–62. Cl. 214—6.

Simpkins, William, to Tiffany Stand Co. Stand having retractable casters. 3,054,623, 9–18–62, Cl. 280—43.14.

Simplex Forms System, Inc. : *See*—
Van Heldren, William L., and Schoffmann. 3,055,076.

Simplex Lock Corp. : *See*—
Rosenhagen, William. 3,040,556.

Simplex Wire and Cable Co. : *See*—
Peterson, George E. 3,032,320.

Simplot, J. R., Co. : *See*—
Conrad, James E., and Kueneman. 3,057,732.

Simpson, Alfred M., to The Metal Box Co. Ltd. Carton setting-up dies. 3,063,348, 11–13–62, Cl. 93—51.

Simpson, Alvan D., to The Forming Machine Co. of America, Inc. Method of and machine for forming strips of material from wet mixes, including fibers. 3,021,255, 2–13–62, Cl. 162—156.

Simpson, Arthur I. F., and W. A. Cawthra, to Modern Telephones (Great Britain) Ltd. Loudspeaking telephone systems. 3,065,300, 11–20–62, Cl. 179—1.

Simpson, Arthur M., to International Steel Co. Revolving door pushbar circuit controller. 3,020,038, 2–6–62, Cl. 268—73.

Simpson, Arthur W., to The Siegler Corp. Torque limiting and overload sensing device. 3,038,576, 6–12–62, Cl. 192—150.

Simpson, Byard D. : *See*—
Payne, Matthew H., and Simpson. 3,027,920.

Simpson, Charles G., and S. Loginow, to Philco Corp. Fabrication of electrical circuit components. 3,022,019, 2–20–62, Cl. 242—9.

Simpson, Charles H. Process for extracting sulphur from material containing elemental sulphur. 3,063,817, 11–13–62, Cl. 23—312.

Simpson, De Roy. Portable highway barricade. 3,057,601, 10–9–62, Cl. 256—64.

Simpson, Duncan W., and W. H. Dawson, Jr., to Curtiss-Wright Corp. Simulated turbine system for turbo-propeller aircraft. 3,015,894, 1–9–62, Cl. 35—12.

Simpson, Edward B., to Socony Mobil Oil Co., Inc. Repetitive seismic source operation. 3,058,540, 10–16–62, Cl. 181—5.

Simpson, Fred E., and R. A. Folkers, to Caterpillar Tractor Co. Combined seal and thrust means. 3,050,346, 8–21–62, Cl. 305—11.

Simpson, Frederick A. Thermally sensitive valves. 3,018,-054, 1–23–62, Cl. 236—34.5.

Simpson, George R., to American Optical Co. Goggles and the like. 3,040,616 6–26–62, Cl. 88—1.

Simpson, Herbert, Corp. : *See*—
Huppke, Glen P., and McIlvaine. 3,020,977.
Kauffman, John H., McIlvaine, and Granath. 3,034,835.
Luce, Roy L. 3,055,149.

Simpson, Heywood Y., and V. L. Erlich, to Reeves Brothers, Inc. Art of dyeing synthetic polymeric materials having paraffinic chains as nuclei. 3,052,510, 9–4–62, Cl. 8—55.

Simpson, Howard W. Twelve speed power shift planetary transmission. 3,031,901, 5–1–62, Cl. 74—759.

Simpson, Jack N., to The Electric Storage Battery Co. Lining for safety helmets. 3,039,109, 6–19–62, Cl. 2—3.

Simpson, James S., to Columbian Rope Co. Blended fiber rope. 3,016,683, 1–16–62, Cl. 57—140.

Simpson, John : *See*—
Parkin, Leslie, and Simpson. 3,027,609.

Simpson, John A. : *See*—
Marton, Ladislaus L., and Simpson. 3,069,592.

Simpson, Justin, to Continental Can Co., Inc. Milk carton assembling machine. 3,039,368, 6–19–62, Cl. 93—39.2.

Simpson, Kenneth R. : *See*—
Nicholson, James F., and Simpson. 3,020,442.

Simpson, Raymond L., to Dearborn Electronic Laboratories of Delaware, Inc. Capacitor. 3,016,481, 1–9–62, Cl. 317—258.

Simpson, Richard W. : *See*—
Meli, Joseph P., Wright, Kittle, and Simpson. 3,068,717.

Simpson, Roba R. Self-controlled toy airplane. 3,068,612, 12–18–62, Cl. 46—81.

Simpson, Robert L. Curtain valve. 3,047,019, 7–31–62, Cl. 137—625.28.

Simpson, Russell J. Fork lift mounting unit for a wheel tractor. 3,066,818, 12–4–62, Cl. 214—671.

Simpson, Stuart C. Cultivator. 3,048,229, 8–7–62, Cl. 172—698.

Simpson, Theodore S., Jr., to ABC Chemical Corp. Bait station for rats and the like. 9,045,387, 7–24–62, Cl. 43—131.

Simpson, Verne G., to General Electric Co. Rubber compositions, 3,017,378, 1–16–62, Cl. 260—37.
Simpson, Victor R., and T. W. Thompson, to International Business Machines Corp. Continuous type belt. 3,041,964, 7–3–62, Cl. 101—111.
Simpson, Vinson R., and J. W. Orendorff, to International Harvester Co. Combination gauge wheel and colter. 3,047,077, 7–31–62, Cl. 172—519.
Simpson, Warren O.: *See*—
Eger, Edward F. and Simpson. 3,018,008.
Simpson, William, to Newey Brothers Ltd. Hook fastenings for garments. 3,050,740, 8–28–62, Cl. 2—265.
Simpson, William E., and D. N. Stevens, to General Motors Corp. Vehicle windscreen wiper systems. 3,060,479, 10–30–62, Cl. 15—250.14.
Sims, Glenn E.: *See*—
Le Paul L., and Sims. 3,069,477.
Sims, Homer J., to Rohm & Haas Co. Bicyclooctane derivative and process of producing same. 3,015,671, 1–2–62, Cl. 260—491.
Sims, Homer J., to Rohm & Haas Co. Inhibited monomeric systems. 3,022,292, 2–20–62, Cl. 260—239.3.
Sims, Homer J., to Rohm & Haas Co. Inhibited monomeric systems. 3,026,066, 5–22–62, Cl. 260—239.3.
Sims, James R.: *See*—
Focht, Frank T., and Sims. 3,032,106.
Sims, James R., to Jersey Production Research Co. Caisson with float releasably attached. 3,036,438, 5–29–62, Cl. 61—82.
Sims, Leslie L., to Ethyl Corp. Stable solvent composition. 3,060,125, 10–23–62, Cl. 252—153.
Sims, Nathaniel L.: *See*—
Garfinkel, Alan R., Sims, and Spinelli. 3,058,104.
Sims, Raymond B., to Davy and United Engineering Co. Ltd. Apparatus for controlling thickness of material. 3,022,-688, 2–27–62, Cl. 80—56.
Sims, Robbie A. Form stripping scaffold. 3,035,659, 5–22–62, Cl. 182—13.
Sims, Royal W. Portable storage and dispensing silo for bulk dry cement. 3,024,930, 3–13–62, Cl. 214—501.
Sims, Sanford. Pipe joint seal. 3,033,581, 5–8–62, Cl. 288—19.
Sims, Victor A., to Air Reduction Co., Inc. Vinylation of aromatic heterocyclic nitrogen compounds. 3,047,583, 7–31–62, Cl. 260—313.
Simson, Verne H.: *See*—
Fischer, Paul M., and Simson. 3,036,683.
Sinatra, Angelo S.: *See*—
Dziedziula, Edward J., Pecoraro, and Sinatra. 3,016,-930.
Sinclair, Charles H.: *See*—
Holmes, George B., Sinclair, Alexander, and Vernon. 3,016,663.
Sinclair, Charles W.: *See*—
Hibbard, Thomas L., and Sinclair. 3,061,053.
Sinclair Co., The: *See*—
Sinclair, Peter S. 3,021,590.
Sinclair, Gordon R., to United States of America, Air Force. Deceleration parachute retraction system. 3,036,795, 5–29–62, Cl. 244—113.
Sinclair, Harold: *See*—
Basebe, Arthur C. 3,029,604.
Sinclair Oil & Gas Co.: *See*—
Hart, John F. 3,024,667.
Holbert, Don R. 3,030,805.
Johnson, James F. 3,033,990.
Nelson, John W. 3,031,402.
Pelzer, Harry L. 3,040,809.
Perry, Robert O., Holbert, and Zeito. 3,044,548.
Peterson, Lorenz A. 3,023,304.
Young, David W., and Pare. 3,031,495.
Zenor, Hughes M. 3,059,119.
Sinclair, Peter S., to The Sinclair Co. Support wire for dandy roll covers. 3,021,590, 2–20–62, Cl. 29—121.
Sinclair Refining Co.: *See*—
Broman, Victor E., and Bosmajian. 3,063,942.
Burk, Emmett H., Jr., and Thomas. 3,041,272.
Cole, Eldon B., and Niles. 3,042,506.
Cole, Eldon B., and Niles. 3,053,645.
Eickemeyer, Daniel B., and Ovist. 3,038,859.
Gallagher, James E. 3,021,867.
Keith, Carl D., Burk, and Mooi. 3,026,268.
Loring, Lewis D., and Voss. 3,015,623.
Matson, Howard J. 3,021,281.
Nelson, John W., Lundquist, and Young. 3,024,293.
Palmer, Robert C., and Morris. 3,049,494.
Piros, John J. 3,033,040.
Podlipnik, John. 3,020,879.
Podlipnik, John. 3,023,156.
Safford, Donald E. 3,024,403.
Sheldahl, David B. 3,025,239.
Sheldahl, David B 3,025,240.
Sheldahl, David B., and Counts. 3,017,257.
Sheldahl, David B., and Counts. 3,024,259.
Smith, Robert M. 3,033,657.
Thomas, Owen H., and Hettinger. 3,017,441.
Verdol, Joseph A. 3,025,305.
Verdol, Joseph A. 3,057,800.
Verley, Guy M. 3,038,858.
Watson, William B. 3,017,346.
Young, David W. 3,022,267.
Young, David W. 3,050,497.
Young, David W., Chambers, and Pare. 3,062,754.
Sinclair Research Inc.: *See*—
Burk, Emmett H., Jr., and Turnquest. 3,044,956.
Feiler, Leonard, Gruben, and Leiner. 3,043,794.
Friedman, Bernard S., and Cotton. 3,052,698.
Harvey, Ronald G., Hoffman, and Patinkin. 3,035,104.
Hoffman, William D. 3,035,105.
Honerkamp, Donald L., and Hudson. 3,055,822.
Matson, Howard J. 3,047,500.
Overhuls, Robert L. 3,066,524.
Payne, Richard B., Mrstik, and Case. 3,056,667.
Perry, Robert O. 3,056,288.
Sarem, Amir M. 3,023,606.
Sarem, Amir M. 3,040,570.
Sheldahl, David B., and Counts. 3,040,074.
Smith, Kenneth A., and Tomsic. 3,041,273.
Usdin, Eugene. 3,050,731.
Verdol, Joseph A. 3,036,003.
Verley, Guy M. 3,044,860.
Westphal, James A. 3,066,255.
Wreyford, Donald M. 3,070,797.
Young, David W., and Curtice. 3,049,493.
Sinclair, Stuart W.: *See*—
Reel, Leo D., and Sinclair. 3,061,353.
Sinclair, Stuart W., to L. D. Reel. Apparatus for engaging and moving elongated tubular objects such as pipe and the like of varying lengths and diameters. 3,024,058, 3–6–62, Cl. 294—67.
Sinclair, William, to Ericsson Telephones Ltd. Electromagnetic indicators. 3,022,502, 2–20–62, Cl. 340—366.
Sindars, Fred E. Insulating jacket for fluid lines and the like. 3,060,069, 10–23–62, Cl. 154—45.
Sindeband, Seymour J.: *See*—
Park, Robert H., Sindeband, and Gilfillan. 3,015,273.
Sindell, Le Roy J. E. Folding boat. 3,028,612, 4–10–62, Cl. 9—2.
Sindlinger, Paul W.: *See*—
Reed, Theron J. 3,064,830.
Sindy, Clarence F.: *See*—
Kolda, Frank V., and Sindy. 3,032,948.
Sindzinski, Willy: *See*—
Buchwald, Fritz, Fliegner, Kastenbein, and Sindzinski. 3,069,011.
Siner, Stephen J.: *See*—
Sussman, Vincent, and Siner. 3,037,070.
Sinex, John C.: *See*—
Catlin, Robert T., and Sinex. 3,058,115.
Sinex, John C., to Remington Arms Co., Inc. Captive piston stud driver. 3,023,414, 3–6–62, Cl. 1—44.5.
Singdale, Fred N., G. W. Wedemeyer, and W. H. Righter, to Lockheed Aircraft Corp. Load cell transducer. 3,036,-283, 5–22–62, Cl. 338—5.
Singelmann, Dietrich E., to Bell Aerospace Corp. Jet propelled aquatic vehicle. 3,041,831, 7–3–62, Cl. 60—35.55.
Singelmann, Dietrich E., to Bell Aerospace Corp. Pump seal. 3,049,081, 8–14–62, Cl. 103—101.
Singelmann, Dietrich E., to Bell Aerospace Corp. Marine propulsion. 3,055,331, 9–25–62, Cl. 114—66.5.
Singer, Albert. Skirt hangers. 3,047,197, 7–31–62, Cl. 223—96.
Singer, Arnold. Collapsible rack. 3,039,617, 6–19–62, Cl. 211—86.
Singer, Arnold J., to Reed & Carnick. Allantoin and coal tar extract composition and treatment of psoriasis. 3,043,-745, 7–10–62, Cl. 167—58.
Singer, Ben L. Eaves trough and supporting bracket therefor. 3,057,117, 10–9–62, Cl. 50—4.
Singer-Cobble, Inc.: *See*—
Card, Joseph L. 3,016,029.
Card, Joseph L. 3,019,748.
Card, Roy T. 3,064,600.
Dedmon, George D. 3,056,364.
Singer, Edward N., and F. A. Giordano, to United States of America, Navy. Time controlled switching system. 3,069,568, 12–18–62, Cl. 307—88.5.
Singer Fidelity, Inc.: *See*—
Greczin, John. 3,049,901.
Mahler, Peter A. 3,023,594.
Mahler, Peter A., and Peel. 3,062,028.
Peel, Robert. 3,030,788.
Peel, Robert. 3,040,549.
Reymes-Cole, John M. R. and B. T. R. 3,049,899.
Singer, Franz: *See*—
Fahlenberg, Paul, Gebele, and Singer. 3,059,558.
Gebele, Kurt, and Singer. 3,065,683.
Gebele, Kurt, and Singer. 3,067,665.
Singer, Hans S. Cooking device. 3,038,402, 6–12–62, Cl. 99—403.
Singer, Hyman, and I. Shulkin, said Shulkin assor. to said Singer. Articulated bed. 3,061,843, 11–6–62, Cl. 5—66.
Singer, Isaac M., Jr.: *See*—
Beecher, Jack B., Kallal, Sayre, and Singer. 3,025,571.
Singer, Jerome R., to National Scientific Laboratories, Inc. Method and apparatus for storing information. 3,017,-612, 1–16–62, Cl. 340—173.
Singer, John J., Jr.: *See*—
Bersworth, Frederick C., and Singer. 3,033,214.
Singer, John J., Jr., and M. Weisberg, to Hampshire Chemical Corp. Process and preparation of amino nitriles and acetic acids. 3,061,628, 10–30–62, Cl. 260—465.5.

Singer Mfg. Co., The : *See*—
Ayres, Waldemar A. 3,025,809.
Bialy, Edward W. 3,051,109.
Cortese, Joseph, and Vollman. 3,051,111.
Daman, Louis F. 3,022,576.
Dunn, Earl F., and Koszta. 3,036,535.
Enos, John P. 3,026,837.
Gardner, August M., and Zbylut. 3,044,427.
Goosman, Herbert J. 3,058,436.
Graham, Richard P. 3,067,705.
Graham, Richard P., and Hage. 3,039,410.
Graham, Richard P., Herron, and Ketterer. 3,051,110.
Greulich, Robert G. 3,055,326.
Hacklander, Hans. 3,016,851.
Hacklander, Hans. 3,018,744.
Hacklander, Hans. 3,031,991.
Happe, Reynold, and Lubas. 3,016,659.
Herbst, Edward J. 3,016,033.
Herbst, Edward J., and Muller. 3,048,460.
Hermanns, Frederick R. 3,068,821.
Herr, John A. 3,068,044.
Hess, Harvey C. 3,046,918.
Hurme, Herbert J., Ketterer, and Reed. 3,029,758.
Johnson, Ralph E. 3,018,743.
Johnson, Ralph E. 3,021,801.
Johnson, Ralph E. 3,023,721.
Johnson, Ralph E. 3,023,722.
Johnson, Ralph E. 3,026,831.
Johnson, Ralph E. 3,027,857.
Johnson, Ralph E. 3,049,086.
Johnson, Ralph E. 3,051,107.
Johnson, Ralph E. 3,057,311.
Johnson, Ralph E. 3,060,878.
Kelemencky, Monroe R. 3,053,204.
Ketterer, Stanley J. 3,051,108.
Ketterer, Stanley J. 3,060,877.
Ketterer, Stanley J. 3,065,718.
Ketterer, Stanley J., and Edwards. 3,063,392.
Ketterer, Stanley J., Edwards, and Ivanko. 3,038,429.
Ketterer, Stanley J., and Smith. 3,068,820.
Kostenowczyk, Stanley. 3,025,811.
Kuhar, Ludwig J. 3,046,922.
McCann, Francis B. 3,046,920.
Momberg, James W., and Taylor. Re. 25,203.
Oehlschlager, George A., Meloy, and Van Ness. 3,041,008.
Parry, Frank. 3,017,498.
Parry, Frank, and Matchett. 3,028,824.
Ritter, Herman. 3,036,536.
Ross, Roger J. 3,033,137.
Ross, Roger J. 3,044,425.
Stanton, Edward W., and Perkins. 3,050,899.
Szuba, Walter D. 3,016,031.
Szuba, Walter D., and Benzing. 3,029,762.
Szuba, Walter D., and Zilg. 3,026,836.
Turner, Edgar P., and Cook. 3,029,763.
Wu, William I. L. 3,070,754.

Singer, Oscar C. Sewage treatment plant. 3,043,433, 7–10–62, Cl. 210—197.

Singer, Robert B. Locking differential. 3,053,114, 9–11–62, Cl. 74—711.

Singer, Samuel. Price tag mount. 3,016,638, 1–16–62, Cl. 40—5.

Singer, Walter : *See*—
Seidel, Felix, Singer, and Springer. 3,067,000.

Singerman, Joseph. Inverse square law teaching apparatus. 3,056,216, 10–2–62, Cl. 35—19.

Singerman, Sol, to American Cyanamid Co. Sterile package for surgical fabric. 3,017,990, 1–23–62, Cl. 206—63.2.

Singh, Harry : *See*—
Seremin, Ernest. 3,068,945.

Singher, Heron O., and L. Zuckerman, to Ortho Pharmaceutical Corp. Process for depyrogenation and purification of streptokinase. 3,016,337, 1–9–62, Cl. 195—66.

Singher, Heron O., and R. Egan, to Ortho Pharmaceutical Corp. Method of purifying streptokinase. 3,060,102, 10–23–62, Cl. 195—66.

Singiser, Frank K. Universal cap. 3,019,932, 2–6–62, Cl. 215—37.

Singlemann, Dietrich E., to Bell Aerospace Corp. Mechanical drive. 3,068,719, 12–18–62, Cl. 74—69.

Singleton, Charles N. Gas-fired incinerator. 3,051,100, 8–28–62, Cl. 110—8.

Singleton, Franklin J., and A. D. Sylvester, to L. E. Carpenter & Co. Method and apparatus for embossing and printing thermoplastic film and the product thereof. 3,024,154, 3–6–62, Cl. 156—209.

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Singleton, Henry E. : *See*—
Duncan, Donal B. and Singleton. 3,057,211.

Singleton, Henry E., to Litton Industries, Inc. Acceleration measuring system. 3,062,059, 11–6–62, Cl. 73—517.

Singleton, Ogle R., Jr., to Reynolds Metals Co. Process and product of zinc and aluminum lamination. 3,046,640, 7–31–62, Cl. 29—197.

Singleton, Thomas C., to Monsanto Chemical Co. Polymerization of acrylonitrile. 3,055,877, 9–25–62, Cl. 260—88.7.

Singley, John E., and A. Christiansen, to Tennessee Corp. Cured resins from glycidyl ether of dihydroxydiphenylsulfones. 3,044,983, 7–17–62, Cl. 260—49.

Singley, John E., and G. P. Whittle, to Tennessee Corp. Molding powder comprising glycidyl ethers of dihydroxydiphenylsulfones. 3,060,151, 10–23–62, Cl. 260—49.

Singley, Mark E., to Farm Instruments Corp. Self feeding structures for animal foodstuffs. 3,053,228, 9–11–62, Cl. 119—52.

Siniawsky, Leon : *See*—
Adams, Lowell V., and Siniawsky. 3,043,478.

Sinkewitsch, Leonid, to M. Grundig. Deck for tape recording. 3,043,531, 7–10–62, Cl. 242—55.13.

Sinkler, Deas. Lined valve. 3,061,269, 10–30–62, Cl. 251—317.

Sinn, Gustav : *See*—
Von Brachel, Hanswilli, Esser, Holtschmidt, and Sinn. 3,070,584.

Sinn, Richard W. : *See*—
Rowe, Eugene C., Sinn, and Steinel. 3,055,557.
Steinel, Edwin H., Rowe, and Sinn. 3,032,634.

Sinn, Robert S., to Radio Corp. of America. Velocity and distance measuring system and method. 3,057,071, 10–9–62, Cl. 33—46.

Sinnema, Yde A., to Twincon, N.V., Koog-Zaandijk. Process for the preparation of a cocoa butter substitute as well as for the preparation of chocolate and the shaped product thus obtained. 3,070,445, 12–25–62, Cl. 99—118.

Sinner, Edwin A., and D. A. Hull, to Kay Paper Products, Inc. Cell partitions for cartons. 3,038,625, 6–12–62, Cl. 217—33.

Sinner, Eugen : *See*—
Naegeli, Werner, and Sinner. 3,035,313.

Sinner, Herbert, and W. Fries, to Henkel & Cie, G.m.b.H. Colored cleaning agents. 3,058,916, 10–16–62, Cl. 252—99.

Sinninger, Dwight V., to Senn Custom, Inc. Rack assembly. 3,056,518, 8–21–62, Cl. 211—147.

Sinninger, Dwight V., to Senn Custom, Inc. Variable oscillator circuit utilizing reverse biased diode for operation at a predetermined frequency. 3,050,693, 8–21–62, Cl. 331—10.

Sinopoli, Frank. Portable electrical receptacle box. 3,049,688, 8–14–62, Cl. 339—12.

Sinski, Henry A. : *See*—
Russo, Carl J., Trifunovic, and Sinski. 3,027,108.
Russo, Carl J., Trifunovic, and Sinski. 3,058,690.

Sintetos, Nicholas D., ½ to G. I. Magnuson, and ½ to G. I. and R. Magnuson and L. J. Fox, trustees. Vegetable trimming apparatus. 3,017,913, 1–23–62, Cl. 146—81.

Sintz, Claude, Inc. : *See*—
Buell, Richard W., Lobdell, and Wrinn. 3,034,813.

Sioux Steam Cleaner Mfg. Co., Inc. : *See*—
Seinhart, Glenn D. 3,046,070.

Sipek, Charles B. : *See*—
Brainard, Wallace E., Hansen, Sedgwick, and Sipek. 3,054,333.
Brainard, Wallace E., Hansen, Sedgwick, Sipek, and Baechle. 3,052,011.
Sedgwick, Robert K., and Sipek. 3,052,999.

Sipos, Endre : *See*—
Witte, Norman H., and Sipos. 3,033,683.
Witte, Norman H., and Sipos. 3,069,443.

Sippach, Frederick W. : *See*—
Gill, Joseph, and Sippach. 3,019,416.

Suppel, Charles P., Jr. : *See*—
Wanielista, Walter, and Sippel. 3,044,378.

Siracusa, Dante A., to Bowen Itco, Inc. Releasing spear for casing. 3,036,855, 5–29–62, Cl. 294—102.

Siracusa, Dante A., and R. W. Walker, to Bowen Itco, Inc. Jar with safety joint and adjusting means. 3,050,131, 8–21–62, Cl. 166—178.

Sirakawa, Kenzo, to Takeda Pharmaceutical Industries, Ltd. 2-(pyrazol-1-yl)-pyrimidine derivatives. 3,040,047, 6–19–62, Cl. 260—256.4.

Sirakawa, Kenzo, T. Tsujikawa, and T. Tsuda, to Takeda Chemical Industries, Ltd. 1-[pyrimidinyl-(2)] guanazole compounds. 3,041,339, 6–26–62, Cl. 260—256.4.

Siri, Louis J., to Penn Controls, Inc. Adjustable thermostat. 3,015,235, 1–2–62, Cl. 73—363.1.

Siri, Louis J., to Penn Controls, Inc. Crankcase oil level control. 3,038,974, 6–12–62, Cl. 200—84.

Siri, Louis J., to Penn Controls, Inc. Fluid expansion power element. 3,066,698, 12–4–62, Cl. 137—784.

Sirianni, Salvatore P. Ball point pen. 3,048,148, 8–7–62, Cl. 120—42.4.

Sirks, Walter M. Sound-producing toy. 3,040,474, 6–26–62, Cl. 46—52.

Sirles, Aden R. : *See*—
Hawkes, Ralph O. and H. G., Morrison, and Sirles. 3,017,997.

Sirles, Edgar A. : *See*—
Sirles, John P. and E. A. 3,052,179.

Sirles, John P. and E. A., to C. Tennant Sons & Co. Decurling attachment for automatic wire strapping machines. 3,052,179, 9–4–62, Cl. 100—28.

Sirois, Benoit J., to Phelps Dodge Copper Products Corp. Multi-component metallic tube and method of making same. 3,040,780, 6–26–62, Cl. 138—142.

Sirois, Lionel J., J. F. Mote, and A. G. Habib, to Esso Research and Engineering Co. Separation of acetone, alcohol and water. 3,031,384, 4–24–62, Cl. 202—42.

Sirois, Rosaire J. Traction arm for vehicle anti-skid device. 3,068,949, 12–18–62. Cl. 180—1.
Siron, Raoul, to Alpha Handels A.G. Method of shoe manufacture. 3,029,449, 4–17–62. Cl. 12—142.
Sirons, Janis A., to United States of America, Air Force. Radio compass. 3,064,256, 11–13–62. Cl. 343—120.
Sirota, Julius, to National Starch and Chemical Corp. Modified acid casein and adhesive derived therefrom. 3,058,836, 10–16–62, Cl. 106—146.
Sirvetz, Marshall H. : *See*—
Schloemann, Ernst F. R. A., and Sirvetz. 3,066,355.
Sirvetz, Marshall H., to Raytheon Co. Microwave device. 3,015,788, 1–2–62, Cl. 333—24.
Sisk, Glenn A., to National Missile and Electronics Inc. Thermoelectric wire stripper. 3,038,985, 6–12–62, Cl. 219—29.
Sisk, Glenn A., to American Missile Products Co., Inc. Electric wire stripper. 3,041,439, 6–26–62, Cl. 219—29.
Sisk, Lulu E. : *See*—
Sisk, Martin A. 3,040,895.
Sisk, Martin A., deceased ; L. E. Sisk, executrix. Finish rim for surface drains and the like. 3,040,895, 6–26–62, Cl. 210—164.
Sisk, Mason J. : *See*—
Rice, Robert, Sisk, and Thompson. 3,065,849.
Sisley, Leslie J. Baler. 3,019,576, 2–6–62, Cl. 53—61.
Sisson, George M., to Sir Howard Grubb Parsons & Co. Ltd. Photographic plate or film measuring devices. 3,056,331, 10–2–62, Cl. 88—14.
Sisson, Gilbert E., and H. Eickhoff, to Franklin Research and Development Corp. Crossover stock cutting device in multi-reel winding apparatus. 3,026,053, 3–20–62, Cl. 242—25.
Sisson, Kenneth O., to General Motors Corp. Washing machine having an agitate drive with a flexible coupling and a spin drive with a brake initiating means. 3,060,712, 10–30–62, Cl. 68—23.
Sistrunk, Thomas O. : *See*—
Cook, Shirl E., and Sistrunk. 3,049,558.
Pearson, Tillmon H., and Sistrunk. 3,050,470.
Redman, Horace E., and Sistrunk. 3,028,408.
Sisulak, Michael S., to General Electric Co. Automatic clothes washing machine with multiple-compartment dispenser. 3,028,740, 4–10–62, Cl. 68—12.
Sites, Benjamin L., and M. S. Agruss, to Miehle-Goss-Dexter, Inc. Quick dry vehicle and method of drying same. 3,041,-203, 6–26–62, Cl. 117—93.
Sites, Benjamin L., and M. S. Agruss, to Miehle-Goss-Dexter, Inc. Coating material and method of drying same. 3,047,422, 7–31–62, Cl. 117—93.
Sites, Benjamin L., and M. S. Agruss, to Miehle-Goss-Dexter, Inc. Quick drying printing ink for coating materials and method of drying same. 3,050,413, 8–21–62, Cl. 117—93.
Sites, Benjamin L., and M. S. Agruss, to Miehle-Goss Dexter, Inc. Quick drying vehicle and method. 3,051,591, 8–28–62, Cl. 117—93.
Sites, Benjamin L., and M. S. Agruss, to Miehle-Goss-Dexter, Inc. Quick drying printing ink and method of drying same. 3,052,568, 9–4–62, Cl. 117—93.
Sittel, Karl, to Walsco Co. Method and apparatus for handling charged particles. 3,017,982, 1–23–62, Cl. 198—1.
Sittel, Karl, to The Franklin Institute. Tonometer. 3,070,-087, 12–25–62, Cl. 128—2.
Sitterly, Charles S., to Cbradco Inc. Window sash positioner. 3,015,511, 1–2–62, Cl. 292—70.
Sitterson, Cephas B., Jr. : *See*—
Nelson, Howard N., and Sitterson. 3,019,944.
Sittig, Lewis P. Satellite globe. 3,027,656, 4–3–62, Cl. 35—46.
Siuta, Walter T., to National Lead Co. Process of producing paper laminates, pigmented resinous composition and process of preparing same. 3,035,966, 5–22–62, Cl. 162—166.
Sivalls Tanks, Inc. : *See*—
Perry, Charles R. 3,029,580.
Siviy, George : *See*—
Sabol, Victor F., and Siviy. 3,036,184.
Siwakoski, Edward T. Soldering and unsoldering gun. 3,024,343, 3–6–62, Cl. 219—26.
Siwek, Stanley Z., to Pioneer Gen-E-Motor Corp. Starters for small internal combustion engines. 3,055,351, 9–25–62, Cl. 123—179.
Siwinski, George W., to FMC Corp. Purification of hydrogen peroxide. 3,043,666, 7–10–62, Cl. 23—207.
Six, Wilbur L. : *See*—
Gradinger, Leland, and Six. 3,041,648.
Sixsmith, Herbert : *See*—
Latham, Robert, Thompson, Sixsmith, Folkierski, and Pickering. 3,032,727.
Sixtus, Klaus, and K. Reichel, to Licentia Patent-Verwaltungs G.m.b.H. Composition of magnetic core material and method of producing same. 3,032,503, 5–1–62, Cl. 252—62.5.
Size, Robert A. Solution heating apparatus and system. 3,026,867, 3–27–62, Cl. 126—350.
Sizer Mfg. Co. : *See*—
Simendinger, Joseph A. 3,029,566.
Sizer, Phillip S., to Otis Engineering Corp. Hydraulically actuatable anchor for well pipe. 3,025,913, 3–20–62, Cl. 166—120.
Sjöblom, Anders G. Fuel injection pump for multi-cylinder internal combustion engines. 3,020,902, 2–13–62, Cl. 123—139.
Sjolander, Newell O. : *See*—
McCormick, Jerry R. D., Sjolander, Hirsch, and Reichenthal. 3,038,005.
McCormick, Jerry R. D., Sjolander, Hirsch, and Reichenthal. 3,069,326.
Sjoquist, Gunnar, to Sunbeam Corp. Knife sharpening attachment. 3,058,268, 10–16–62, Cl. 51—116.
Sjöstrand, Fritiof S., C. O. L. Ottosson, and S. R. Zernell, to Atlas Copco Aktiebolag. Portable power tools. 3,019,673, 2–6–62, Cl. 77—7.
Sjovall, Jan : *See*—
Bergstrom, Sune, and Sjovall. 3,069,322.
Skaar, Donald L. : *See*—
Kreisler, Robert I., Evans, and Skaar. 3,068,459.
Skaggs, Russell A. Roller skate. 3,024,033, 3–6–62, Cl. 280—11.28.
Skagius, Kurt T. : *See*—
Iversen, Else N., Rubinstein, and Skagius. 3,025,303.
Skala, George F., to General Electric Co. Condensation nuclei optical measuring apparatus. 3,019,692, 2–6–62, Cl. 88—14.
Skallquist, Karl S. A., to Dagens Nyheters Aktiebolag. Driving mandrel for rolls of paper in printing and similar machines. 3,041,977, 7–30–62, Cl. 242—72.
Skalwold, Robert N., and T. G. Burke, to United States of America, Air Force. Contour scanning device. 3,068,581, 12–18–62. Cl. 33—174.
Skandinaviska Aerosol Aktiebolaget : *See*—
Wihlin, Claes E. 3,062,751.
Skanska Attikfabriken AB : *See*—
Fröman, Bengt G. I. 3,057,731.
Skantar, Elmer T., to Westinghouse Air Brake Co. Air supply arrangement for air spring suspension system of railway cars. 3,063,756, 11–13–62, Cl. 303—5.
Skantz, John W. Portable power-operated cutting tools. 3,040,631, 6–26–62, Cl. 90—12.
Skärstrom, Åke R., to Arenco Aktiebolag. Bunch transfer device. 3,036,580, 5–29–62, Cl. 131—81.
Skärström, Åke R., to Arenco Aktiebolag. Apparatus for severing and distributing sheets from a web of paper or tobacco. 3,037,411, 6–5–62, Cl. 83—152.
Skarstrom, Charles W., and W. O. Heilman, to Esso Research and Engineering Co. Heatless fractionator. 3,069,830, 12–25–62, Cl. 55—58.
Skau, Evald L. : *See*—
Magne, Frank C., Skau, and Mod. 3,066,111.
Skavinsky, Anthony. Vertical-lift, horizontal flight aircraft. 3,063,655, 11–13–62, Cl. 244—23.
Skay, Frank, to Ford Motor Co. Pressure actuated switch. 3,054,871, 9–18–62, Cl. 200—83.
Skeats, Wilfred F., to General Electric Co. Electric bus duct apparatus. 3,015,743, 1–2–62, Cl. 307—147.
Skeen, Gary R., to Carl G. Peterson Co. Feed roll mounting and lifting device. 3,067,999, 12–11–62, Cl. 271—51.
Skeen, Samuel A. : *See*—
Ottestad, Jack B., and Skeen. 3,039,292.
Ottestad, Jack B., Skeen, and Baker. 3,036,538.
Skeggs, Leonard T., to Technicon Instruments Corp. Chart readers and comparators and method of translating light transmittance values of optical chart recordings into concentration values. 3,024,692, 3–13–62, Cl. 88—14.
Skeist, Irving : *See*—
Rynkiewicz, Henry J., Schwarz, and Skeist. 3,063,787.
Skellett, Albert M., to Tung-Sol Electric Inc. Regenerative circuit for cold cathode vacuum tubes. 3,029,395, 4–10–62, Cl. 330—112.
Skelton, Charles W., to Texas Instruments Inc. Function generator utilizing non-conducting side of a binary chain. 3,069,557, 12–18–62, Cl. 307—88.5.
Skelton, Jesse D. : *See*—
Burns, Kay N., and Skelton. 3,058,110.
Johnson, Virgil R., and Skelton. 3,047,836.
Meier, Roark, Skelton, and Webster. 3,037,186.
Skelton, Thomas N., to The Auto-Soler Co. Shoe finishing apparatus. 3,066,331, 12–4–62, Cl. 12—1.
Skerkoske, Eugene J., and L. S. Spielman, to Eclipse Fuel Engineering Co. Burner construction. 3,044,754, 7–17–62, Cl. 263—19.
Skerritt, John W., to International Business Machines Corp. Monostable multivibrator. 3,037,132, 5–29–62, Cl. 307—88.5.
Skerritt, John W., to International Business Machines Corp. Bistable multivibrator. 3,045,128, 7–17–62, Cl. 307—88.5.
Skerritt, John W., to International Business Machines Corp. Flip-flop responsive to leading and trailing transients of successive input pulses employing diode, R-C combination. 3,047,732, 7–31–62, Cl. 307—88.5.
Skerritt, Roy P. Rotary lawn sprinkler. 3,029,028, 4–10–62, Cl. 239—252.
Skett, Herbert E., S J. D. Randall, and C. R. Jordan, to R. J. Fullwood & Bland Ltd. Apparatus for cleaning a vacuum milking plant. 3,062,224, 11–6–62, Cl. 134—58.
Skewis, Francis H. : *See*—
Bernhardt, Ernest C., and Skewis. 3,044,118.
Skiatron Electronics & Television Corp. : *See*—
Shanahan, William J. 3,060,419.
Skidmore, Donald M., to Sperry Rand Corp. Radar object positional indicator. 3,016,530, 1–9–62, Cl. 343—11.

Skidmore, Rijah, to J. E. Mitchell Co. Tympan. 3,064,330, 11–20–62, Cl. 29—124.
Skifferolje Aktiebolaget, Svenska : *See*—
Shirley, William J. 3,061,009.
Skil Corp. : *See*—
Amundsen, Oliver O., and Botefuhr. 3,022,769.
Bork, Hugo W. 3,049,802.
Etzkorn, Elmer F. 3,020,789.
Hall, Emery L., and Kocian. 3,056,439.
Skillin, Walter F., to Union Mfg. Co. Scroll chuck. 3,028,-169, 4–3–62, Cl. 279—114.
Skillman, William A., W. Evanus, and D. H. Mooney, Jr., to Westinghouse Electric Corp. Pulse doppler moving target simulator. 3,018,478, 1–23–62, Cl. 343—17.7.
Skinner, Burrhus F., to Rheem Mfg. Co. Teaching aid. 3,056,215, 10–2–62, Cl. 35—9.
Skinner, Charles : *See*—
Smith, James E., Berger, and Skinner. 3,036,664.
Skinner, Charles A., Jr. : *See*—
Shive, William, and Skinner. 3,043,861.
Skinner, Clawson N. Method and apparatus for shaping and sizing dentures. 3,049,804, 8–21–62. Cl. 32—1.
Skinner, Clayton H., to Hewitt-Robins Inc. Moving handrail. 3,048,256, 8–7–62, Cl. 198—16.
Skinner Engine Co. : *See*—
Clark, William A. 3,041,659.
Skinner, Eugene S., to Beloit Iron Works. Paper machine dryer drum. 3,065,552, 11–27–62, Cl. 34—124.
Skinner, George M. : *See*—
Hinds, Gene W., Skinner, and Smith. 3,020,035.
Skinner, George M., and R. M. Gage, to Union Carbide Corp. Alternating current arc plasma torches. 3,024,350, 3–6–62, Cl. 219—75.
Skinner, Harvey G., to Westmoreland Plastics Co., Inc. Fluorescent lamp holder. 3,058,085, 10–9–62, Cl. 339—53.
Skinner Irrigation Co., The : *See*—
Dudley, Wray E., Friedmann, and Paullus. 3,038,666.
Skinner, Jack W. : *See*—
Murtland, James B., Jr., Schoepf, and Skinner. 3,056,-208.
Skinner, Kenneth R., and L. J. Sienkiewicz, to Westinghouse Electric Corp. Television tuning apparatus. 3,018,329, 1–23–62, Cl. 178—5.8.
Skinner, Lee B. : *See*—
Westfield, John A. 3,033,068.
Skinner Precision Industries, Inc. : *See*—
Multer, Howard, and Roddy. 3,023,016.
Padula, Lawrence D. 3,022,799.
Skinner, Ralph L., ½ to R. T. Skinner. Seal. 3,069,174, 12–18–62, Cl. 277—48.
Skinner, Ralph L., ½ to R. T. Skinner. Seal. 3,069,175, 12–18–62 Cl. 277—48.
Skinner, Ransom P., to Union Carbide Corp. Cooling head for small chambers. 3,064,451, 11–20–62, Cl. 62—514.
Skinner, Robert T. : *See*—
Skinner, Ralph L. 3,069,174.
Skinner, Ralph L. 3,069,175.
Skinner, Stanley J. : *See*—
Eagleton, Sidney D., and Skinner. 3,030,665.
Skinner, Vincent S. : *See*—
Watkins, Jack, and Skinner. 3,035,437.
Skirow, Benjamin A. Cup container. 3,064,872, 11–20–62, Cl. 229—15.
Skirpan, Stephen J. Preset lighting control system. 3,049,-645, 8–14–62, Cl. 315—316.
Skirt-O-Matic, Inc. : *See*—
Michlin, Alex. 3,024,954.
Skirvin, William M. Means to feed supplementary air to internal combustion engines. 3,024,776, 3–13–62, Cl. 123—119.
Ski Waxer, Inc. : *See*—
Kurlander, John, and Althen. 3,045,639.
Sklar, Abe. Battery corrosion eliminator. 3,042,735, 7–3–62, Cl. 136—181.
Sklar, J., Mfg. Co. : *See*—
Sovatkin, Edward J. 3,038,467.
Sklaroff, Morton : *See*—
Maltby, Frederick L., and Sklaroff. 3,065,462.
Sklenar, Jerome B. Water ski rope retrieving apparatus. 3,038,829, 4–10–62, Cl. 114—235.
Skobel, Max. Process and apparatus for making supported sleeving. 3,045,281, 7–24–62, Cl. 18—13.
Skochdopole, Richard E., L. C. Rubens, and G. D. Jones, to The Dow Chemical Co. Foamed articles of ethylene-propylene copolymers and method of making. 3,062,729, 11–6–62, Cl. 204—154.
Skoglund, George A., and R. D. Wingate. Heating element. 3,060,303, 10–23–62, Cl. 219—46.
Skogseid, Anders, to A/S Jens Villadsen's Fabrikker. Method of reacting felted cellulose, sulphate cellulose and sulphite cellulose with gaseous ketenes. 3,051,543, 8–28–62, Cl. 8—121.
Skolaude, Heinrich : *See*—
Bohm, Siegfried, Winkler, and Skolaude. 3,052,170.
Skolaut, Paul L., and A. B. Waters, to Halliburton Co. Paraffin control composition and method. 3,051,653, 8–28–62, Cl. 252—8.3.
Skold, John F. Multiple conveyor. 3,048,258, 8–7–62, Cl. 198—75.
Skolnick, Max. Electro-plating method and apparatus. 3,061,526, 10–30–62, Cl. 204—15.
Skolnik, Frank J. Door hinge. 3,036,331, 5–29–62, Cl. 16—151.
Skolnik, Sol : *See*—
Finnegan, William G., Henry, and Skolnik. 3,055,911.
Skomoroski, Robert M. : *See*—
Heath, Carl E., Jr., and Skomoroski. 3,053,898.
Skoning, John H. S. Inorganic binder for refractory materials. 3,057,740, 10–9–62, Cl. 106—38.9.
Skoog, Douglas A., to Philco Corp. Thin film resistors. 3,044,903, 7–17–62, Cl. 117—229.
Skoog, Folke : *See*—
Strong, Frank M., Skoog, and Miller. 3,070,432.
Skoog, Per O. Method and means for producing tight-fitting patches for use in plywood-patching machines. 3,021,249, 2–13–62, Cl. 156—293.
Skooglund, John W. : *See*—
Enns, Mark K., and Skooglund. 3,069,613.
Skopyk, Joseph. Poison extractor. 3,068,868, 12–18–62. Cl. 128—300.
Skovmand, Harry A. and K. R., to International Business Machines Corp. Data processing system. 3,069,659, 12–18–62, Cl. 340—172.5.
Skovmand, Kenneth R. : *See*—
Skovmand, Harry A. and K. R. 3,069,659.
Skovranek, John. Boarding platform actuated pump. 3,020,-870, 2–13–62, Cl. 114—183.
Skow, Ross E., to Hydro Engineering Corp. Surface foam eradicator. 3,028,845, 4–10–62, Cl. 122—491.
Skow, Ross E., to Hydro Engineering Corp. Heat exchanger for distilling devices. 3,029,068, 4–10–62, Cl. 257—241.
Skow, Ross E. Method and apparatus for purifying water. 3,055,810, 9–25–62, Cl. 202—71.
Skowron, Edmund A., to Woodings-Verona Tool Works. Automatically releasing lifting tongs. 3,051,521, 8–28–62, Cl. 294—83.
Skowron, John F., and D. L. Winsor, to Raytheon Co. Traveling wave electron discharge devices. 3,015,750, 1–2–62, Cl. 315—3.5.
Skowron, John F., F. E. Haynes, and L. D. Smullin, to Raytheon Co. Traveling wave tubes. 3,069,588, 12–18–62, Cl. 315—3.6.
Skowronski, George V., to American Can Co. Carton. 3,019,959, 2–6–62, Cl. 229—45.
Skowronski, George V., to American Can Co. Display carton. 3,040,956, 6–26–62, Cl. 229—32.
Skoyles, Derek R., to North American Philips Co., Inc. Deflection and focusing apparatus for cathode ray tubes. 3,035,198, 5–15–62, Cl. 313—76.
Skraban, Casimir J. Automatic spin casting reel. 3,052,424, 9–4–62, Cl. 242—84.2.
Skramstad, Harold K. : *See*—
Rabinow, Jacob, and Skramstad. 3,066,895.
Skramstad, Harold K., C. Raudenbush, and J. A. Hart, to United States of America, Navy. Single ended amplifier with double ended output. 3,050,690, 8–21–62, Cl. 330—117.
Skrip, Frank J. Tire chain. 3,042,097, 7–3–62, Cl. 152—239.
Skrmetta, Cecil B., 10% to R. Q. Skrmetta. Shrimp washer and peeler. 3,024,490, 3–13–62, Cl. 17—2.
Skrmetta, Paul C. and R. Q. Shrimp de-veiner. 3,031,714, 5–1–62, Cl. 17—2.
Skrmetta, Raphael Q. : *See*—
Skrmetta, Cecil B. 3,024,490.
Skrmetta, Paul C. and R. Q. 3,031,714.
Skrobish, Mitchell : *See*—
Kizaur, Arthur J., Mueller, and Skrobish. 3,069,544.
Skromme, Arnold B., to Deere & Co. Silo unloader. 3,045,841, 7–24–62, Cl. 214—17.
Skromme, Arnold B., and R. S. Wilkes, to Deere & Co. Material unloader with cross conveyor and rotor. 3,037,780, 6–5–62, Cl. 275—6.
Skuba, Witold K., to Ford Motor Co. Infinitely variable disc drive. 3,043,150, 7–10–62, Cl. 74—199.
Skubic, Leroy F., to The Paltier Corp. Lifting device for bar stock rack. 3,028,186, 4–3–62, Cl. 294—67.
Skudd, Benton J., to Benton-Williams Co., Inc. Shower closure. 3,025,532, 3–20–62, Cl. 4—149.
Skudre, Arnold M. : *See*—
Cureton, Warren D., Ford, Huebsch, and Skudre. 3,052,-767.
Skulley, John V. Valve structure. 3,067,769, 12–11–62, Cl. 137—483.
Skupas, John A., to Faultless Caster Corp. Caster bearing seal and damper. 3,032,804, 5–8–62, Cl. 16—36.
Skupas, John A., R. H. Godwin, and R. W. Martin, to Faultless Caster Corp. Caster construction. 3,032,805, 5–8–62, Cl. 16—44.
Skupas, John A., and I. Stollman, to Faultless Caster Corp. Sealed caster construction. 3,060,488, 10–30–62, Cl. 16—18.
Skurner, John A. Hand computer. 3,024,984, 3–13–62, Cl. 235—80.
Skuta, Felix F., to G-M Laboratories, Inc. Adjustment of tachometer generators. 3,015,875, 1–9–62, Cl. 29—155.5.
Skuttle Mfg. Co. : *See*—
Powers, Milton A. 3,048,163.
Skwirut, Henry : *See*—
Knochel, William J., Murphy, and Skwirut. 3,030,542.
Skydyne, Inc. : *See*—
Kantor, Maxwell. 3,024,939.
Slaasted, Raymond S., and P. J. Kohler, to Modine Mfg. Co. Heat exchanger. 3,017,161, 1–16–62, Cl. 257—245.

Slaats, Matthew A., and P. S. Manson, to The Bendix Corp. Unbalanced autotransformer audio amplifier. 3,066,188, 11–27–62, Cl. 179—1.

Slack, Charles M., W. G. Roman, S. Krasik, and W. J. Purcell, to Westinghouse Electric Corp. Fluidized bed nuclear reactor. 3,039,945, 6–19–62, Cl. 204—193.2.

Slack, Charles M., and W. G. Roman, to Westinghouse Electric Corp. Reactor. 3,058,897, 10–16–62, Cl. 204—154.2.

Slack, Howard A., to The Pure Oil Co. Geochemical process. 3,033,654, 5–8–62, Cl. 23—230.

Slack, Howard A., and G. D. Brunton, to The Pure Oil Co. Electronic gravity meter. 3,027,767, 4–3–62, Cl. 73—382.

Slack, Howard A., and G. A. Marsh, to The Pure Oil Co. Method of determining variation of formation resistivity with distance from borehole by means of induction logging. 3,024,042, 3–8–62, Cl. 324—6.

Slack Mfg. Co. : *See*—
Fish, Alvin K., and Block. 3,041,628.

Slack, Robert W. Combination spreader and mower. 3,023,-562, 3–6–62, Cl. 56—25.4.

Slack, Ronald : *See*—
Holland, Anthony, and Slack. 3,026,332.

Slade, Albert E., and D. A. Buck, to Arthur D. Little, Inc. Cryotron translators. 3,019,978, 2–6–62, Cl. 235—164.

Slade, Chaloner B. : *See*—
Booth, Eugene T., Jr., Pontius, Jacobsohn, and Slade. 3,024,009.

Slade, Duncan E., to United States Rubber Co. Overshoe. 3,026,635, 3–27–62, Cl. 36—7.3.

Slade, Herbert J. Window well cover. 3,048,897, 8–14–62, Cl. 20—1.

Slade, Herbert J. Window well cover. 3,048,900, 8–14–62, Cl. 20—40.

Sladner, Walter J. : *See*—
Fierce, William L., and Sladner. 3,061,644.

Slagg, James E. : *See*—
Dickinson, Clarence R., and Slagg. 3,050,704.

Slagh, Harold R. : *See*—
Tolkmith, Henry, Slagh, and Kauer. 3,022,329.

Slaght, Edgar C. : *See*—
Girard, Theodore A., and Slaght. 3,048,608.

Slagle, Robert L., to Berger Industries Inc. Reverse rigging arrangement for tower. 3,045,973, 7–24–62, Cl. 254—139.1.

Slagle, William R. Stop motion mechanism for circular knitting machines. 3,040,550, 6–26–62, Cl. 66—163.

Slamar, Frank, to United States Steel Corp. Continuous gage. 3,065,415, 11–20–62, Cl. 324—61.

Slamar, Frank, and A. Teplitz, to United States Steel Corp. Packaging line. 3,019,577, 2–6–62, Cl. 53—74.

Slamb, Gene E., and F. R. Werner, to The National Cash Register Co. Repeat cycling control mechanism for cash registers and accounting machines. 3,015,434, 1–2–62, Cl. 235—11.

Slamecka, Ernest : *See*—
Binsele, Arnold, Pratsch, and Slamecka. 3,038,116.

Slamecka, Ernest, to Siemens-Schuckertwerke Aktiengesellschaft. Circuit-breaker testing arrangements. 3,064,183, 11–13–62, Cl. 324—28.

Slark, Norman A. Apparatus for the manufacture of cascade image amplifiers. 3,055,725, 9–25–62, Cl. 316—31.

Slate, Claude C. Wide-angle rear view mirror. 3,063,344, 11–13–62, Cl. 88—98.

Slaten, John M. Vein stripper. 3,045,676, 7–24–62, Cl. 128—303.

Slater, Douglas M., to John W. McDougall Co., Inc. Dies for bending sheet metal. 3,034,559, 5–15–62, Cl. 153—21.

Slater Electric Inc. : *See*—
Slater, Saul I. 3,019,406.

Slater, James L. : *See*—
Markley, William F., and Slater. 3,061,667.
Slater, Saul I. 3,037,146.

Slater, Jay W. : *See*—
Hammer, James P., and Slater. 3,021,059.

Slater, John M., to North American Aviation, Inc. Guidance system utilizing two-axis stabilization. 3,039,316, 6–19–62, Cl. 74—5.34.

Slater, John M., and J. C. Boltinghouse, to North American Aviation, Inc. Free-rotor gyroscope motor and torquer drives. 3,025,708, 3–20–62, Cl. 74—5.46.

Slater, John M., D. E. Findley, and J. F. Leicester, III, to North American Aviation, Inc. Gimbal support for a stable element. 3,029,646, 4–17–62, Cl. 74—5.34.

Slater, John M., and J. S. Acterman, to North American Aviation, Inc. Gas bearing gyroscope. 3,048,043, 8–7–62, Cl. 74—5.

Slater, John M., D. E. Wilcox, and W. L. Pondrom, to North American Aviation, Inc. Portable gravimeter. 3,062,051, 11–6–62, Cl. 73—382.

Slater, N., Co. Ltd. : *See*—
Semple, James, and Baird. 3,070,651.

Slater, Saul I., to Slater Electric Inc. Wiring device with wire gripping electrical connector. 3,019,406, 1–30–62, Cl. 339—95.

Slater, Saul I., to Slater Electric Inc. Light dimming switch. 3,037,146, 5–29–62, Cl. 315—200.

Slater, Thomas, Jr. Drinking fountain attachment for faucets. 3,030,029, 4–17–62, Cl. 239—25.

Slates, Harry L. : *See*—
Taub, David, Wendler, and Slates. 3,053,865.

Slatkovski, Emil. Louvered ventilating devices and method for producing same. 3,021,778, 2–20–62, Cl. 98—121.

Slatkovski, Emil J. : *See*—
Dean, Ralph K., Slatkovski, and Wegner. 3,015,135.

Slatter, Brian H., to Bristol Siddeley Engines Ltd. Control systems for gas turbine engines. 3,048,012, 8–7–62, Cl. 60—39.28.

Slattery, Robert E. : *See*—
Baer, Robert A., Slattery, and Tripp. 3,030,494.

Slattery, Thomas G., and B. M. Torrey, to Automation, Inc. Magnetic memory device. 3,049,697, 8–14–62, Cl. 340—174.1.

Slaugh, Lynn H., to Shell Oil Co. Synthesis of alkenyl substituted cycloalkanes. 3,052,737, 9–4–62, Cl. 260—666.

Slaughter, Alvina M. Lunch safe. 3,026,995, 3–27–62, Cl. 206—4.

Slaughter, Gerald M. : *See*—
Donnelly, Ralph G., Gilliland, and Slaughter. 3,022,162.
Gilliland, Ralph G., Patriarca, Slaughter, and Williams. 3,038,249.
Patriarca, Peter, and Slaughter. 3,065,537.

Slaughter, James B. Adjustable ripper tooth for power shovels. 3,039,210, 6–19–62, Cl. 37—117.5.

Slaughter, James B. Tool for applying crawler treads. 3,048,917, 8–14–62, Cl. 29—200.

Slaven, John G., to York Trailer Co. Ltd. Coupling gear. 3,056,612, 10–2–62, Cl. 280—434.

Slavich, Michael, to United States Gypsum Co. Method and apparatus for cleaning wood chips. 3,042,198, 7–3–62, Cl. 209—9.

Slavin, Martin J. : *See*—
Rabin, Richard, Oken, and Slavin. 3,023,959.

Slavin, Michael, and B. P. Hooten, Jr., to The Bendix Corp. Printed circuit capacitor and method of manufacture. 3,040,214, 6–19–62, Cl. 317—101.

Slavin, William J. Mounting mechanism for automobile radio antenna. 3,056,570, 10–2–62, Cl. 248—43.

Slavsky, Robert J., to Shaw & Slavsky, Inc. Movable merchandise indicator. 3,041,760, 7–3–62, Cl. 40—10.

Slavsky, Robert J., to Shaw & Slavsky, Inc. Tire tread gauge. 3,063,153, 11–13–62, Cl. 33—169.

Slawson, Richard S., to George W. Dahl Co., Inc. Pressure relay. 3,043,325, 7–10–62, Cl. 137—112.

Slayter, Games, to Owens-Corning Fiberglas Corp. Damping pad. 3,018,991, 1–30–62, Cl. 248—22.

Slayter, Games, to Owens-Corning Fiberglas Corp. Apparatus for producing fibers. 3,030,659, 4–24–62, Cl. 18—2.5.

Slayter, Games, to Owens-Corning Fiberglas Corp. Polyphase materials. 3,047,383, 7–31–62, Cl. 75—201.

Slayter, Games, to Owens-Corning Fiberglas Corp. Control of crystal growth in mica materials. 3,056,653, 10–2–62, Cl. 23—115.

Slayter, Games, to Owens-Corning Fiberglas Corp. Method for producing glass roving. 3,060,674, 10–30–62, Cl. 57—157.

Slayter, Games, and A. A. Fowle, to Owens-Corning Fiberglas Corp. Inverted turbine. 3,015,524, 1–2–62, Cl. 308—9.

Slayter, Games, and H. J. Snow, and S. D. Philipps, to Owens-Corning Fiberglas Corp. Method for producing and treating fibers. 3,021,563, 2–20–62, Cl. 18—47.3.

Slayter, Games, H. J. Snow, R. G. Russell, and D. Kleist, to Owens-Corning Fiberglas Corp. Apparatus for processing heat-softenable materials. 3,026,563, 3–27–62, Cl. 18—2.6.

Slayter, Games, and R. W. Roth, to Owens-Corning Fiberglas Corp. Method and apparatus for forming continuous filaments. 3,040,377, 6–26–62, Cl. 18—8.

Slayter, Games, H. B. Whitehurst, and W. L. Morgan, to Owens-Corning Fiberglas Corp. Methods for combining metals and compositions containing metals with glass and materials produced therefrom. 3,047,409, 7–31–62, Cl. 106—47.

Slayter, Games, W. L. Morgan, A. R. Morrison, and R. F. Shannon, to Owens-Corning Fiberglas Corp. Fibrous glass product and method of manufacture. 3,050,427, 8–21–62, Cl. 156—26.

Slayton, Ransom D., to Teletpye Corp. Signal distortion indicator. 3,045,061, 7–17–62, Cl. 178—69.

Sleafti-Magnesia Aktiengesellschaft : *See*—
Eckert, Oskar. 3,066,102.

Slechta, Henry C., to Western Electric Co., Inc. Strip supply system. 3,028,826, 4–10–62, Cl. 113—94.

Sleeper & Hartley, Inc. : *See*—
Halvorsen, Elmer W. 3,028,904.
Penny, Chester F. 3,069,024.

Sleeper, Murrel B. : *See*—
Le Clear, Robert L., M. B. and R. Sleeper. 3,021,545.

Sleeper, Murrel B., to Gerbing Mfg. Co. Hydraulic variable speed drive. 3,059,744, 10–23–62, Cl. 192—58.

Sleeper, Richard : *See*—
Le Clear, Robert L., M. B. and R. Sleeper. 3,021,545.

Slemmons, Charles O. : *See*—
Fleming, Earl L., Neher, and Slemmons. 3,066,503.

Slemmons, Charles O., to The General Tire & Rubber Co. Stabilizer for fender buffer system. 3,055,182, 9–25–62, Cl. 61—48.

Slemmons, Charles O., and J. A. Welch, to The General Tire & Rubber Co. Single piston air spring with floating band. 3,033,558, 5–8–62, Cl. 267—65.

Slemmons, Charles O., S. C. Sabo, and W. Baranecky, to The General Tire & Rubber Co. Method of and apparatus for building an air spring bellows. 3,061,499, 10–30–62, Cl. 156—194.

Slenker, Stephen, and W. C. Kinzinger, to Philco Corp. Plural-transistor circuit with fuse means. 3,022,465, 2–20–62, Cl. 330—30.

Slenker, Stephen A. Electrical potentiometer. 3,018,458, 1–23–62, Cl. 338—143.

Sletten, Carlyle J. Stretch array for scanning. 3,032,763, 5–1–62, Cl. 343—793.

Sletzinger, Meyer, to Merck & Co., Inc. Certain alpha-hydrazino-imidazole-propionic acid derivatives. 3,049,548, 8–14–62, Cl. 260—309.

Sletzinger, Meyer, and W. A. Gaines, to Merck & Co., Inc. α-Trifluoromethyloxyphenylalanines. 3,046,300, 7–24–62, Cl. 260—471.

Sletzinger, Meyer, and M. Tishler, to Merck & Co., Inc. 2-amino-5,6-dihydropteridines. 3,067,200, 12–4–62, Cl. 260—251.5.

Sletzinger, Meyer, D. F. Reinhold, and S. Karady, to Merck & Co., Inc. 16α-lower alkyl pregnane and choleno derivatives. 3,068,228, 12–11–62, Cl. 260—239.57.

Slezak, Frank B.: *See*—
Hirsch, Alfred, and Slezak. 3,040,044.
Rosen, Irving, and Slezak. 3,019,075.

Slezak, Frank B., and J. Rosen, to Diamond Alkali Co. Halogly coluril bactericidal compositions for disinfecting and bleaching. 3,019,160, 1–30–62, Cl. 167—33.

Slezak, Frank B., and H. A. McElravy, Jr., to Diamond Alkali Co. Preparation of 2,4-dioxohexahydro-1,3,5-triazine. 3,035,055, 5–15–62, Cl. 260—248.

Slezak, Frank B., and R. M. Bimber, to Diamond Alkali Co. 1,3,5-trithiane compounds. 3,066,149, 11–27–62, Cl. 260—327.

Slick, Fred S. Means for displaying a flag. 3,063,406, 11–13–62, Cl. 116—173.

Slifka, Elden P.: *See*—
Nelson, Kay F., Romney, and Slifka. 3,029,321.

Slinger, Frank H.: *See*—
Howard, Harold T., Slinger, and Wardleworth. 3,054,-792.
Howard, Harold T., Slinger, and Wardleworth. 3,054,-793.

Slip On Easel Corp.: *See*—
Buchholtz, George O. 3,039,227.

Slipp, Kenneth W. Chain welding fixture having tensioned adjustable chain securing means. 3,030,766, 4–24–62, Cl. 59—34.

Sloan, Arthur: *See*—
Tandler, William S., Grossman, and Sloan. 3,023,506.

Sloan, Carol L.: *See*—
Barber, William A., and Sloan. 3,031,413.

Sloan, Carol L., and W. A. Barber, to American Cyanamid Co. Cyclopentadienyl-metal halides and method of making. 3,046,288, 7–24–62, Cl. 260—429.5.

Sloan, David H., to United States of America, Navy. Ramjet device. 3,049,883, 8–21–62, Cl. 60—39.72.

Sloan, Donald D., and A. M. Sveit, to Dennison Mfg. Co. Indicia applying machine. 3,036,519, 5–29–62, Cl. 101—19.

Sloan, James A., and H. R. Billeter, to Sloan Valve Co. Flush valve operators. 3,038,347, 6–12–62, Cl. 74—18.2.

Sloan, John E. N.: *See*—
Brown, Norman C., Sloan, and Kingsbury. 3,043,744.

Sloan, Kenneth R., and H. W. Baer, to Radio Corp. of America. Article orienting and positioning device. 3,025,944, 3–20–62, Cl. 198—30.

Sloan, Norton Q.: *See*—
Long, George B., and Sloan. 3,049,655.

Sloan, Raymond W., to Socony Mobil Oil Co., Inc. Depth measuring system. 3,027,649, 4–3–62, Cl. 33—129.

Sloan, Theodore H., ¼ to W. B. Jaspert. Method and apparatus for honing annular bodies. 3,021,648, 2–20–62, Cl. 51—135.

Sloan, Theodore H., ¼ to W. B. Jaspert. Renewable bearing supports. 3,040,483, 6–26–62, Cl. 51—154.

Sloan, Theodore H., 25% to W. B. Jaspert. Method for honing bearing surfaces. 3,045,399, 7–24–62, Cl. 51—291.

Sloan, Theodore H., ¼ to W. B. Jaspert. Pinch roll drive for honing cylindrical bodies. 3,047,989, 8–7–62, Cl. 51—236.

Sloan, Theodore H., ¼ to W. B. Jaspert. Work reciprocating mechanism for tape honing machines and the like. 3,057,123, 10–9–62, Cl. 51—151.

Sloan Valve Co.: *See*—
Billeter, Henry R. 3,061,199.
Filliung, Jacques J. 3,034,138.
Filliung, Jacques J. 3,034,151.
Filliung, Jacques J. 3,066,314.
Sloan, James A., and Billeter. 3,038,347.

Sloan, William R., to International Telephone and Telegraph Corp. System for large-area display of two-color information. 3,069,681, 12–18–62, Cl. 346—74.

Sloane, Howard J., and K. B. Bradley, to The Dow Chemical Co. Preparation of 4-chlorodiphenyl oxide. 3,022,353, 2–20–62, Cl. 260—612.

Sloane, William H., and G. J. F. Leitl. Track roller bearings and the like. 3,020,109, 2–6–62, Cl. 308—207.

Slobodzinski, Edwin J.: *See*—
Pomerene, James H., and Slobodzinski. 3,019,351.

Slobodzinski, Edwin J., to International Business Machines Corp. Passive element binary circuit gate. 3,037,128, 5–29–62, Cl. 307—88.5.

Slobodzinski, Edwin J., to International Business Machines Corp. Logic, exclusive-or, and shift register circuits utilizing directly connected cascade transistors in "tree" configuration. 3,040,192, 6–19–62, Cl. 307—88.5.

Slobodzinski, Edwin J., to International Business Machines Corp. Inverter circuit and complementing flip-flop using constant current sources and isolated collector to emitter connection. 3,070,709, 12–25–62, Cl. 307—88.5.

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Slockett, Robert D.: *See*—
Burns, Harold W., and Slockett. 3,062,862.

Slocombe, Cyprian M., and B. T. Lovern to Samuel Fox & Co. Ltd., and AEI-Birlec Ltd. Electrode clamps. 3,026,444, 3–20–62, Cl. 314—101.

Slocombe, Robert J., and J. E. Fields, to Monsanto Chemical Co. Cyano esters of acidic copolymers. 3,040,006, 6–19–62, Cl. 260—78.5.

Slocombe, Robert J., and G. L. Wesp, to Monsanto Chemical Co. Methyl vinyl ketone terpolymers. 3,051,685, 8–28–62, Cl. 260—63.

Slocum, Charles W., to C. W. Slocum and R. D. Bauer. Switch calibration apparatus. 3,048,028, 8–7–62, Cl. 73—1.

Slolper & Voice Optical Co., Inc.: *See*—
Voice, Bernard I. 3,032,936.

Slomon, Ira I. Self-starter adhesive and glue applicator. 3,048,880, 8–14–62, Cl. 15—571.

Slone, Howard I.: *See*—
Barcus, Edward L., and Slone. 3,027,807.

Sloneker, James H.: *See*—
Jeanes, Allene R., and Sloneker. 3,054,689.

Sloop, Clifford E. Current transformer cabinet assembly and method of wiring the same. 3,029,401, 4–10–62, Cl. 336—92.

Sloop, Clifford E. Meter socket by-pass. 3,035,242, 5–15–62, Cl. 339—19.

Sloop, Clifford E. Transformer mounting. 3,062,495, 11–6–62, Cl. 248—260.

Slosberg, Benjamin L., to Missouri Wood Heel Co. Heel structure. 3,045,366, 7–24–62, Cl. 36—24.5.

Slosberg, David K., and E. Nakonieczny, to Bonafide Mills, Inc. Method of making plastic terrazzo and resultant product. 3,017,714, 1–23–62, Cl. 41—17.

Slotterbeck, Ober C.: *See*—
Schatz, Ralph H., Gleason, and Slotterbeck. 3,063,857.
Winters, Merilyn T., and Slotterbeck. 3,035,017.
Winters, Merilyn A., Slotterbeck, Koenecke, and Van Nostrand. 3,058,837.

Slotterbeck, Ober C., and M. T. Winters, to Esso Research and Engineering Co. Method of stabilizing oxidized drying oils for isocyanate-sulphur dioxide curing. 3,050,489, 8–21–62, Cl. 260—33.4.

Slotterbeck, Ober C., and A. H. Gleason, to Esso Research and Engineering Co. Core molding composition. 3,055,761, 9–25–62, Cl. 106—38.2.

Slough, Kenneth C., to Fire Boss, Inc. Dry chemical fire extinguishing system. 3,040,816, 6–26–62, Cl. 169—9.

Slovacek, Woodrow W.: *See*—
Cunningham, Fred A., Klatt, Brown, and Slovacek. 3,019,274.
Cunningham, Fred A., Klatt, Brown, and Slovacek. 3,020,162.

Slover, James W.: *See*—
Payton, Edwin M., and Slover. 3,042,196.

Sloyan, Jerome J. Supports. 3,017,226, 1–16–62, Cl. 308—3.

Sloyan, Jerome J. Method of manufacturing a motor base. 3,065,523, 11–27–62, Cl. 29—150.

Sluijters, Robert, to American Enka Corp. Mixing apparatus. 3,051,453, 8–28–62, Cl. 259—4.

Sluma, William: *See*—
Walz, Bruno. 3,021,546.

Slumberland (Developments) Ltd.: *See*—
Thompson, William, and Sykes. 3,070,135.

Sluz, Konstantin A. Apparatus for douching the anus. 3,019,447. 2–6–62. Cl. 4—7.

Slyngstad, Charles E., and R. L. Nagy, to The M. W. Kellogg Co. Hydrocarbon conversion apparatus and method of operation. 3,053,753, 9–11–62, Cl. 208—78.

Smaga, George: *See*—
Diederich, Robert F., McCarthy, and Smaga. 3,030,825.

Small, Augustus B.: *See*—
Hunter, Edward A., Lambert, Segura, and Small. 3,046,-244.
Hunter, Edward A., Small, and Miller. 3,062,767.

Small, Eugene V., and T. J. Keim. Extensible supporting device. 3,027,091, 3–27–62, Cl. 238—134.

Small, George E., and J. R. Fulmer, to Geo. D. Roper Corp. Automatic control for range double burner. 3,016,198, 1–9–61, Cl. 236—1.

Small, Leslie C., Jr., to United Aircraft Corp. Stator construction. 3,043,564, 7–10–62, Cl. 253—78.

Small, Lillian: *See*—
Hirsch, Julius A., and Small. 3,019,445.

Small, Owen M.: *See*—
McGowan, John P., and Small. 3,067,027.

Small, Percy A.: *See*—
Lewis, Dennis A., and Small. 3,053,790.
Stanhope, Richard D., and Small. 3,055,788.

Small, Rudolph E.: *See*—
Nystrand, Ernst D., and Small. 3,063,367.

Small, Samuel N., to A. G. Cohen and P. Weiss. Hinged sections for umbrella tops. 3,046,701, 7–31–62, Cl. 56—229.

Small, Samuel N., ¼ to J. Salzman. Universally adjustable control device. 3,047,688, 7–31–62, Cl. 200—61.41.

Smalley, Harvey D., Jr. Ink dispensing apparatus. 3,065,886, 11–27–62, Cl. 222—400.7.

Smalley, William, to Wm. Gardner & Sons (Gloucester) Ltd. Conveyor feeders. 3,070,261, 12–25–62, Cl. 222—55.

Smallpeice, Cosby D. P. Tool feed mechanism. 3,024,672, 3–13–62, Cl. 77—33.7.

Smallwood, Harold G. Golfer's head holding harness. 3,059,-932, 10–23–62, Cl. 273—190.

Smart, Charles L.: *See*—
Linville, Robert G., Osborne, and Smart. 3,039,999.

Smart, Charles L., to Celanese Corp. of America. Polyacrylonitrile and method of preparation. 3,069,482, 12–18–62, Cl. 260—88.7.

Smart, Ernest F., to Westinghouse Electric Corp. Apparatus for assembly of electron discharge devices. 3,065,521, 11–27–62, Cl. 29—25.19.

Smart, William D.: *See*—
Ilich, George M., Jr., Robinson, and Smart. 3,037,046.

Smart, William D., to Abbott Laboratories. Process for N-methylacridone. 3,021,334, 2–13–62, Cl. 260—279.

Smathers, Ralph L., and J. G. Rauleson. Multiple window anchoring device. 3,016,996, 1–16–62, Cl. 189—64.

Smauder, Ellis E., to American Incinerator Corp. Municipal incinerator. 3,031,981, 5–1–62, Cl. 110—8.

Smead Mfg. Co., The: *See*—
Podner, Joseph. 3,039,470.

Smeal, Donald L., to L. R. Nelson Mfg. Co. Irrigation pipe moving apparatus. 3,051,095, 8–28–62, Cl. 104—162.

Smeal, Thomas W.: *See*—
Hafner, William F., Leach, and Smeal. 3,046,217.

Smedresman, Max, to Nysco Laboratories, Inc. Low density wheyboard tablets. 3,015,611, 1–2–62, Cl. 167—82.

Smee, Peter G., to General Electric Co. Limiter circuit employing shunt diode means to sweep out distributed capacitance in the non-conducting state. 3,020,420, 2–6–62, Cl. 307—88.5.

Smeets, Gerard G. F., to Houdaille Industries, Inc. Calibrated positioning device. 3,049,807, 8–21–62, Cl. 33—189.

Smeets, Helmut, to Schloemann Aktiengesellschaft. Drum for winding on and unwinding cold-rolled bands. 3,067,964, 12–11–62, Cl. 242—721.

Smeltz, Kenneth C., to E. I. du Pont de Nemours and Co. Ethylene telomerization process of preparing same. 3,055,-953, 9–25–62, Cl. 260—653.1.

Smeltzer, George S., to Westinghouse Electric Corp. Electrical apparatus. 3,030,550, 4–17–62, Cl. 315—203.

Smeltzer, Jack C., to Thompson Ramo Wooldridge Inc. Saturable reactor power supply. 3,048,767, 8–7–62, Cl. 321—23.

Smeltzer, Jack C., to Thompson Ramo Wooldridge Inc. Transistor flip-flop indicator circuit. 3,048,823, 8–7–62, Cl. 340—173.

Smetko, Francis M. Head rest for seat backs. 3,046,057, 7–24–62, Cl. 297—397.

Smets, Victor F. Adjustable coded calendar. 3,050,886. 8–28–62, Cl. 40—109.

Smeulers, Wouter: *See*—
Janssen, Peter J. H., Boekhorst, and Smeulers. 3,061,757.
Janssen, Peter J. H., and Smeulers. 3,020,480.
Janssen, Peter J. H., and Smeulers. 3,066,183.
Janssen, Peter J. H., Smeulers, and Eisele. 3,061,674.

Smeulers, Worter, to North American Philips Co., Inc. Circuit arrangement for synchronizing a relaxation oscillator. 3,070,753, 12–25–62, Cl. 331—11.

Smilowski, Antoni J., I. J. Vogelfanger, C. L. Fischer, and S. H. G. Connock, to Canadian Patent and Development Ltd. Blood vessel size measuring instrument. 3,038,259, 6–12–62, Cl. 33—149.

Smialowski, Antoni J., I. J. Vogelfanger, C. L. Fischer, and S. H. G. Connock, to Canadian Patent and Development Ltd. Vascular everter. 3,057,355, 10–9–62, Cl. 128—334.

Smidth, F. L., & Co.: *See*—
Andersen, Niels E. 3,036,822.
Fagerholt, Gunnar R. 3,068,110.

Smile, Hamad J.: *See*—
Paulson, Elmar E., and Smile. 3,035,759.

Smiler, Jacob M., to Pioneer Sample Book Co. Phonograph record jacket. 3,061,086, 10–30–62, Cl. 206—62.

Smiley, Harry J.: *See*—
Nowicki, Henry F., and Smiley. 3,034,541.

Smiley, Robert A.: *See*—
Bennett, Ovell F., Huber, and Smiley. 3,022,320.
Kirby, Arthur F., and Smiley. 3,035,100.

Smiley, William D., to Union Carbide Corp. Coated carbonaceous articles. 3,019,128, 1–30–62, Cl. 117—71.

Smilg, Benjamin: *See*—
Early, Paul F., and Smilg. 3,042,033.

Smirl, Richard L., to Borg-Warner Corp. Clutch. 3,061,062, 10–30–62, Cl. 192—69.

Smirl, Richard L., to Borg-Warner Corp. Clutch anti-spin device. 3,068,980, 12–18–62, Cl. 192—110.

Smirles, Victor W. Removal of liquids from drums or other containers. 3,052,256, 9–4–62, Cl. 137—270.

Smirnow, Peter: *See*—
Eiden, Leo W., Rustad, and Smirnow. 3,022,616.

Smisko, Paul, to Stackpole Carbon Co. Dynamoelectric brush. 3,042,629, 7–3–62, Cl. 252—507.

Smit, Anne: *See*—
Huisman, Henderikus O., and Smit. 3,056,834.

Smit, Nimrod, and J. J. Coetzee, to African Metals Corp. Ltd. Production of orthophosphates of calcium. 3,053,624, 9–11–62, Cl. 23—108.

Smith, A. O., Corp.: *See*—
Anderson, Archie C. 3,052,585.
Andrus, Orrin E. 3,052,527.
Andrus, Orrin E. 3,062,507.
Boncher, Harry P., and Deringer. 3,037,925.
Brueckner, Karl K. 3,052,328.
Carstens, Fred A. 3,046,647.
Chyle, John J. 3,035,152.
Chyle, John J. 3,035,153.
Chyle, John J. 3,062,950.
Erickson, Charles D. 3,024,945.
Evers, William J. 3,033,164.
Healy, James H. 3,043,530.
Hendricksen, Warren, and Needham. 3,016,462.
Hinrichs, John F. 3,038,059.
Jaskowiak, Frank T. 3,066,556.
Johnson, Arthur E. 3,047,848.
Johnson, Arthur E. 3,059,164.
Johnson, Arthur E. 3,067,377.
Martin, Wesley G. 3,037,230.
Maynard, John T. 3,041,976.
McGaughey, James H. 3,055,549.
Moe, Frank R. 3,046,815.
Needham, Howard H. 3,016,463.
Needham, Howard H. 3,052,021.
Needham, Howard H. 3,062,401.
Nielsen, Einer S. 3,029,504.
Rudorf, Sigurd K. 3,058,024.
Schilberg, Arnold G. 3,037,271.
Schmitz, Ewald F. 3,024,942.
Schmitz, Ewald F. 3,067,975.
Sielicki, Alexander J. 3,020,745.
Steen, William E. 3,024,665.
Swank, Rehl W. 3,021,032.
Wasson, Loerwood C. 3,016,256.
Wasson, Loerwood C. 3,047,156.
Wepler, George R. 3,047,774.

Smith, A. O., Harvestore Products, Inc.: *See*—
Hacker, Frederick W. 3,016,128.
Hacker, Frederick W. 3,029,791.
Haggard, John M., and McMurray. 3,028,838.
McMurray, Paul M., and Haggard. 3,042,000.
Osborne, Le Roy M. 3,024,923.

Smith, Aaron H., to Signal Mfg. Co. Coupling element. 3,019,042, 1–30–62, Cl. 287—108.

Smith, Aaron H., to Signal Mfg. Co. Dolly for cleaning apparatus with improved wheel bearings. 3,042,461, 7–3–62, Cl. 308—15.

Smith, Aaron H., to Signal Mfg. Co. Cleaning apparatus. 3,055,039, 9–25–62, Cl. 15—353.

Smith, Aaron H., to Signal Mfg. Co. Floor cleaning apparatus. 3,064,300, 11–20–62, Cl. 15—322.

Smith, Aaron H., to Signal Mfg. Co. Vacuum cleaner nozzle and attachment. 3,069,716, 12–25–62, Cl. 15—371.

Smith, Alan: *See*—
Westall, Arthur, and Smith. 3,035,402.
Westall, Arthur, and Smith. 3,065,593.

Smith, Alan L.: *See*—
Steski, Bernard, Smith, and Werthwine. 3,050,436.

Smith, Alan W., to Union Carbide Corp. Extended range pirani gauge. 3,053,093, 9–11–62, Cl. 73—399.

Smith, Albert: *See*—
Roos, Jacob F., and Smith. 3,048,316.

Smith, Albert C.: *See*—
Franzel, Richard M., and Smith. 3,037,385.

Smith, Albert L. Microscopic slide marker. 3,057,291, 10–9–62, Cl. 101—4.

Smith, Alden F., to United Aircraft Corp. Ducted fan engine. 3,063,661, 11–13–62, Cl. 244—54.

Smith, Alexander, and B. D. Baggs, Jr. Mower and hoe. 3,028,919, 4–10–62, Cl. 172—125.

Smith, Alexander, and B. D. Baggs, Jr. Lawn edger. 3,031,-830, 5–1–62, Cl. 56—25.4.

Smith, Alexander, and B. D. Baggs, Jr. Tractor mower. 3,040,502, 6–26–62, Cl. 56—6.

Smith, Alexander, and B. D. Baggs, Jr. Debanker. 3,066,-745, 12–4–62, Cl. 172—118.

Smith, Alfred A. Crutch tip. 3,040,757, 6–26–62, Cl. 135—64.

Smith, Alfred J., and E. Metcalf, to Rolls-Royce Ltd. Aircraft control systems. 3,030,053, 4–17–62, Cl. 244—77.

Smith, Alfred R., to United States Steel Corp. Heat exchanger for pulverulent material. 3,026,626, 3–27–62, Cl. 34—57.

Smith, Alfred R., to Ford Motor Co. Steering column coupling. 3,044,281, 7–17–62, Cl. 64—10.

Smith, Allan K.: *See*—
Eldridge, Arthur C., Nash, and Smith. 3,069,327.
Rackis, Joseph J., and Smith. 3,049,530.

Smith, Alvin H.: *See*—
Dinsmore, David W., and Smith. 3,060,166.

Smith, Archibald B. Machine tool fixture support. 3,038,385, 6–12–62, Cl. 90—11.

Smith, Arnold R., to Bell Telephone Laboratories, Inc. Compensating arrangements. 3,060,583, 10–30–62, Cl. 33—46.

Smith, Arthur F., to International Business Machines Corp. Sheet feeding and registering machines. 3,015,485, 1–2–62, Cl. 271—53.

Smith, Arthur F. Film-forming and wiping distillation process and apparatus for carrying out the same. 3,020,211, 2–6–62, Cl. 202—64.

Smith, Arthur F., to International Business Machines Corp. Punching machines for punching records while in motion. 3,037,688, 6–5–62, Cl. 234—50.

Smith, Arthur F. Process and apparatus for treating fluid materials. 3,054,684, 9–18–62, Cl. 99—216.

Smith, Arthur F. Distillation film wiping apparatus. 3,054,-729, 9–18–62, Cl. 202—236.

Smith, Arthur F. Thin film distillation apparatus. 3,060,-107, 10–23–62, Cl. 202—236.

Smith, Arthur J., to Bostitch Industrial Stapling Machine Co. Pneumatic tool. 3,051,135, 8–28–62, Cl. 121—21.

Smith, Arthur L. Jet type rotary steam engine. 3,024,611, 3–13–62, Cl. 60—108.

Smith, Arthur W., to DAG Mfg. Co. Sink stopper. 3,060,459, 10–30–62, Cl. 4—295.

Smith, Barry L., to The Dazey Corp. Electric can opener. 3,066,409, 12–4–62, Cl. 30—4.

Smith, Benjamin F., to Light Metals Corp. Puller for extrusion apparatus. 3,058,587, 10–16–62, Cl. 207—1.

Smith, Benjamin H., to Heinemann Electric Co. Relay structure. 3,017,475, 1–16–62, Cl. 200—103.

Smith, Bernard: *See*—
Hughes, Roderick F., and Smith. 3,028,168.

Smith, Bernard J., to General Electric Co. Width control. 3,027,500, 3–27–62, Cl. 317—200.

Smith, Bert, Jr.: *See*—
Buchanan, J. D., and Smith. 3,015,317.

Smith, Bill: *See*—
Goodenow, Wayne B., Smith, and Young. 3,032,271.

Smith, Blanchard D., Vehicle shifting apparatus. 3,020,967, 2–13–62, Cl. 180—1.

Smith, Blanchard D., Jr., to Melpar, Inc. Position plotter. 3,043,514, 7–10–62, Cl. 235—181.

Smith, Bobbie G., to Collins Radio Co. Smoke generator. 3,024,200, 3–6–62, Cl. 252—359.

Smith, Bobby L., and J. Auxiliary car chair. 3,050,333, 8–21–62, Cl. 296—64.

Smith Bros., Inc.: *See*—
Spoor, Herbert J., and Weir. 3,035,972.

Smith, Bruce W.: *See*—
Bonza, Louis P., Byrne, and Smith. 3,041,668.

Smith, Buford B. Coin controlled vending machine. 3,033,-338, 5–8–62, Cl. 194—80.

Smith, Burton D. Arrowhead structure. 3,021,138, 2–13–62, Cl. 273—106.5.

Smith, Burton H.: *See*—
Howe, Nathaniel S., Davis, Smith, Nesta, and Pulsifer. 3,066,330.

Smith, Byron D.: *See*—
Moe, Walter J., Smith, Miller, and Cray. 3,039,688.

Smith, Caldwell P., to United States of America, Air Force. Detection of relative distribution patterns. 3,036,268, 5–22–62, Cl. 324—77.

Smith, Carl A., to White-Rodgers Co. Solenoid valve. 3,027,-132, 3–27–62, Cl. 251—54.

Smith, Carl F.: *See*—
Starck, Clemens B., Smith, and Hellmann. 3,053,661.

Smith, Carl K. Apparatus for coating pipes. 3,041,700, 7–3–62, Cl. 25—38.

Smith, Carl M., and D. E. Graham, to General Aniline & Film Corp. Condensation product of m-phenylene-diamine and a dialkyl ketone, epoxy resin composition containing same, and process of curing. 3,032,526, 5–1–62, Cl. 260—42.

Smith, Carlton V. Collapsible step ladder. 3,025,924, 3–20–62, Cl. 182—156.

Smith, Cecil R., Jr., C. A. Glass, and I. A. Wolff, to United States of America, Agriculture. Method of preparing a drying oil and intermediates therefor. 3,027,388, 3–27–62, Cl. 260—410.9.

Smith, Cecil R., Jr., M. O. Bagby, and I. A. Wolff, to United States of America, Agriculture. Method of preparing 14-hydroxy-cis-11-eicosenoic acid and ester derivatives thereof. 3,057,893, 10–9–62, Cl. 260—410.9.

Smith, Charles A.: *See*—
McCarty, Horace G., and Smith. 3,040,509.
Patton, Thomas O., and Smith. 3,067,463.

Smith, Charles A. V. Portable structural units, particularly bridge units. 3,034,162, 5–15–62, Cl. 14—72.

Smith, Charles A. V. Vehicles. 3,044,645, 7–17–62, Cl. 214—505.

Smith, Charles B.: *See*—
Battison, Alvin H., Hix, Smith, and Wilkerson. 3,055,-582.
Battison, Alvin H., and Smith. 3,028,584.
Greening, Donald J., Peterson, and Smith. 3,026,464.

Smith, Charles E.: *See*—
Fath, Douglas W., and Smith. 3,016,483.
Fath, Douglas W., and Smith. 3,034,033.
Greening, Donald J., and Smith. 3,021,466.
Greening, Donald J., and Smith. 3,047,742.
Peterson, Norman L., and Smith. 3,047,729.
Tellefson, Clair W., Smith, and Nelson. 3,046,850.

Smith, Charles G., to Raytheon Co. Methods of heating and levitating molten material. 3,023,091, 2–27–62, Cl. 23—301.

Smith, Charles H., to Flight Refueling Inc. Cable laying system. 3,042,385, 7–3–62, Cl. 258—1.2.

Smith, Charles H., Jr., to United States of America, Navy. Automatic frequency search and following receiver. 3,045,-625, 7–24–62, Cl. 114—23.

Smith, Charles J., C. E. Read, and B. A. Wehring, to Monroe Auto Equipment Co. Vehicle power steering control device. 3,016,049, 1–9–62, Cl. 121—46.5.

Smith, Chester A., to General Electric Co. Electric motor winding arrangement. 3,062,978, 11–6–62, Cl. 310—166.

Smith, Chester L., and C. W. Pinkley; said Smith assor. to United States of America, Army. Analogue to digital integrator. 3,023,376, 2–27–62, Cl. 331—131.

Smith, Clarence C.: *See*—
Schoij, Edgar, and Smith. 3,068,818.

Smith, Clarence H., Jr.: *See*—
Turner, James F., Bartman, and Smith. 3,057,309.

Smith, Clarence J., H. G. Henrickson, and J. E. Drummond, to Kaiser Aluminum & Chemical Corp. Apparatus for forming containers. 3,053,209, 9–11–62, Cl. 113—7.

Smith, Clarence L.: *See*—
Fury, Arthur M., and Smith. 3,059,611.

Smith, Clarence M., to The Bryant Electric Co. Wiring device. 3,018,461, 1–23–62, Cl. 339—95.

Smith, Clarence M., to The Bryant Electric Co. Wiring device. 3,036,285, 5–22–62, Cl. 339—14.

Smith, Clark C. Method and composition for facilitating fitting of dental appliances. 3,060,577, 10–30–62, Cl. 32—17.

Smith, Clement: *See*—
Adams, Harold A. 3,061,162.

Smith, Clifford E.: *See*—
Tuschhoff, John V., and Smith. 3,022,289.

Smith, Clifford E., and J. V. Tuschhoff, to A. E. Staley Mfg. Co. Process for modifying starch and the resulting products. 3,069,410, 12–18–62, Cl. 260—233.3.

Smith, Cornelius C.: *See*—
Daudin, Jacques, and Smith. 3,063,852.
Daudin, Jacques P. M., and Smith. 3,037,867.

Smith-Corona Marchant Inc.: *See*—
Anderson, Carl P., and Kearney. 3,064,079.
Avery, Harold T. 3,032,262.
Bacon, Stanley H., Efstathiou, and Greene. 3,060,272.
Bradbury, Wilburn F. 3,051,377.
Canny, Floyd H. 3,062,351.
Edwards, Richard A., and Reynolds. 3,017,088.
Hamilton, Eugene P., Trebino, and Dell. 3,047,731.
Heise, Kurt. 3,053,444.
Mathi, Walter E., and Nolde. 3,021,060.
Reynolds, Eugene E. 3,017,089.
Reynolds, Eugene E., Lindberg, Avery, Munzing, and Thomas. 3,019,971.
Reynolds, Eugene E., and Thomas. 3,043,502.
Schlitzkus, Robert F. 3,016,579.

Smith, Curtis W.: *See*—
Fischer, Rudolph F., and Smith. 3,043,851.

Smith, Dale E., to Cast-Die, Inc. Method of making a cutting die. 3,025,727, 3–20–62, Cl. 76—107.

Smith, Dan L., to Esco Corp. Method of casting employing an investment mold. 3,059,282, 10–23–62, Cl. 18—58.

Smith, Daniel L., to D. L. Smith, trustee. Free flowing condiment dispenser. 3,058,628, 10–16–62, Cl. 222—242.

Smith, Darwin L.: *See*—
Ketterer, Stanley J., and Smith. 3,068,820.

Smith, David C., and R. F. Mikes; said R. F. Mikes, assor. to D. C. Smith. Cartridge toothbrush. 3,021,850, 2–20–62, Cl. 132—84.

Smith, David F. Purification of caustic alkali by ion exchange. 3,042,491, 7–3–62, Cl. 23—184.

Smith, David G., to Moffats Ltd. Foot operated catch for doors. 3,030,102, 4–17–62, Cl. 268—72.

Smith, David G., to Moffats Ltd. Oven rack elevating and lowering mechanism. 3,043,290, 7–10–62, Cl. 126—337.

Smith, David G., to Moffats Ltd. Warmer shelf. 3,051,819, 8–28–62, Cl. 219—37.

Smith, David R.: *See*—
Zelinski, Robert P., and Smith. 3,050,513.

Smith, David S. J., to General Dynamics Corp. Binary code storage system. 3,056,113, 9–25–62, Cl. 340—173.

Smith, David T.: *See*—
Biehl, Harold R., and Smith. 3,060,560.

Smith, Delmont K.: *See*—
Mitchell, Reid L., and Smith. 3,054,705.
Mitchell, Reid L., Smith, and Welton. 3,046,082.

Smith, Derek R.: *See*—
Fifield, Charles H., Smith, and Robinson. 3,021,274.

Smith, Devon L. Tape recorder control device. 3,057,570, 10–9–62, Cl. 242—55.12.

Smith-Dieterich Corp.: *See*—
Smith, Philip S. 3,023,666.
Smith, Philip S. 3,031,920.

Smith, Donald A.: *See*—
Allen, Charles F. H., Talbot, Yudelson, and Smith. 3,047,394.
Houck, Robert C., Smith, and Yudelson. 3,062,674.

Smith, Donald C., and J. C. King, to Alloy Die Casting Co. Portable water treatment device. 3,016,146, 1–9–62, Cl. 210—190.

Smith, Donald F., to American Viscose Corp. Weftless ribbon. 3,052,584, 9–4–62, Cl. 156—167.

Smith, Donald F., and J. P. Lester, to Rodale Electronics, Inc. Automatic range selector. 3,016,488, 1–9–62, Cl. 324—115.

Smith, Donald L. : *See*—
Dennis, Wolcott, and Smith. 3,062,016.
Smith, Donald M. Running light for watercraft. 3,043,949, 7–10–62, Cl. 240—7.5.
Smith, Donald P. : *See*—
Wilcox, Harvey N., and Smith. 3,047,061.
Smith, Donald P. Composite container. 3,042,285, 7–3–62, Cl. 229—51.
Smith, Donald R., and W. A. Gibson, to Her Majesty the Queen in Right of Canada, as represented by the Minister of National Defence. Automatic hydraulic saddle lock. 3,045,635, 7–24–62, Cl. 114—235.
Smith, Donald W., to Southwestern Cotton Oil Co. Packing gland for vertical screw conveyor. 3,015,505, 1–2–62, Cl. 286—11.13.
Smith-Douglass Co., Inc. : *See*—
Hollingsworth, Clinton A. 3,070,228.
Smith, Dresden G. Saw sharpening apparatus for sharpening curved saw blades. 3,024,670, 3–13–62, Cl. 76—31.
Smith, Dudley C. : *See*—
Blackman, John W., and Smith. 3,026,705.
Smith, E. Quimby, Jr. : *See*—
Ryden, Carl V., Smith, and Matthews. 3,040,517.
Smith, Earl G., to Construction Machinery Co. Concrete mixing drum and method of making same. 3,023,056, 2–27–62, Cl. 308—204.
Smith, Earl L. : *See*—
Hall, Ralph, Smith, and Hilker. 3,067,063.
Koerner, Ernest C., Hall and Smith. 3,022,200.
Smith, Edgar J., to General Precision, Inc. Remote station digital data transmission system. 3,047,662, 7–31–62, Cl. 179—2.
Smith, Edmond L., to Combustion Engineering, Inc. Treatment of waste liquors. 3,047,362, 7–31–62, Cl. 23—48.
Smith, Edward A., to Raymond International, Inc. Method for making and installing concrete piles and the like. 3,027,724, 4–3–62, Cl. 61—53.7.
Smith, Edward J. : *See*—
Zaratkiewicz, Edwin A., and Smith. 3,015,591.
Smith, Edward M., to Techno Corp. Viscous dampener for valves. 3,047,012, 7–31–62, Cl. 137—512.15.
Smith, Edward M., to Gorman-Rupp Industries, Inc. Cardiac massage apparatus. 3,053,249, 9–11–62, Cl. 128—39.
Smith, Edward V. C. : *See*—
Spicer, Daniel S., Smith, and Sanders. 3,038,838.
Smith, Edward W. Use of pulsating pressures for increasing the permeability of underground structures. 3,048,226, 8–7–62, Cl. 166—42.
Smith, Edwin K., Jr. : *See*—
Strakosch, Clarence P., Jr., Smith, and Wolter. 3,029,-570.
Strakosch, Clarence P., Jr., Smith, and Wolter. 3,029,-781.
Smith, Edwin K., Jr., J. D. Alexander, and R. Marks, to Minnesota Mining and Mfg. Co. Photoprinting apparatus. 3,022,716, 2–27–62, Cl. 95—77.5.
Smith, Edwin K., Jr., and F. J. Anastasio, to Miehle-Goss-Dexter, Inc. Newspaper stuffing machine. 3,048,388, 8–7–62, Cl. 270—57.
Smith, Edwin S., to The Goodyear Tire & Rubber Co. Polymerization process with a peroxydicarbonate initiator formed in situ. 3,022,281, 2–20–62, Cl. 260—92.8.
Smith, Egerton, Engineers Ltd. : *See*
Smith, George E., and Chantler. 3,055,550.
Smith, Elmus H., and G. T. Hoyle, Jr., to American Duralite, Inc. Mullion construction. 3,067,845, 12–11–62, Cl. 189—75.
Smith, Elwin G., & Co., Inc. : *See*—
Mosteller, George. 3,023,864.
Smith, Ellwood H., to Lovell Mfg. Co. Imperforate drum combination clothes washer and dryer. 3,039,285, 6–19–62, Cl. 68—19.
Smith, Elwood E. Shoe shine shoe holders. 3,041,642, 7–3–62, Cl. 12—53.7.
Smith, Eric S. Ore retort. 3,037,759, 6–5–62, Cl. 266—15.
Smith, Eric S. Gold pan. 3,059,776, 10–23–62, Cl. 209—447.
Smith, Ernest G., to Myford Engineering Co. Ltd. Belt driven change speed gears. 3,057,216, 10–9–62, Cl. 74—217.
Smith, Erwin L., to Clay Equipment Corp. Paddle-actuated animal drinking device. 3,049,094, 8–14–62, Cl. 119—75.
Smith, Eugene E. Billet turner. 3,044,636, 7–17–62, Cl. 214—1.
Smith, Eugene M. : *See*—
Hodge, Allen W., and Smith. 3,057,050.
McEuen, Kenneth W., and Smith. 3,015,885.
Smith, Eugene M., to General Electric Co. Capacitor trip arrangement for an electric circuit breaker. 3,064,163, 11–13–62, Cl. 317—60.
Smith, Evander A., to C. F. Phelps and W. T. Spigner. Nut cracker. 3,049,160, 8–14–62, Cl. 146—15.
Smith, F. L., Machine Co., Inc. : *See*—
Novick, Abraham. 3,056,322.
Smith, Floyd C. : *See*—
Huetten, Clarence, Smith, and Rogers. 3,030,460.
Smith, Francis E. : *See*—
Drakeford, George E., and Smith. 3,044,522.
Drakeford, George E., and Smith. 3,044,523.
Smith, Francis J. Window well cover. 3,046,613, 7–31–62, Cl. 20—1.
Smith, Frank H. : *See*—
Hameister, Harold L., Wallace, and Smith. 3,061,064.
Smith, Frank P., to International Telephone and Telegraph Corp. Delay line circuitry for color television receivers. 3,042,873, 7–3–62, Cl. 329—192.
Smith, Fred T., to Whiting Corp. Hydraulic hoist control system. 3,035,414, 5–22–62, Cl. 60—53.
Smith, Fred T., to Whiting Corp. Constant mechanical advantage rotary hydraulic device. 3,046,950, 7–31–62, Cl. 121—121.
Smith, Frederick A. Combination hollow footing stringer and foundation drain duct. 3,017,722, 1–23–62, Cl. 50—100.
Smith, Frederick H. Work stop. 3,030,105, 4–17–62, Cl. 269—315.
Smith, Frederick J. Towel dispenser. 3,025,829, 3–20–62, Cl. 118—221.
Smith, Frederick W. : *See*—
Allin, Philip E. V., and Smith. 3,015,787.
Smith, George A. : *See*—
Hargens, Charles W., and Smith. 3,054,296.
Smith, George E. : *See*—
Smith, Cono S., Smith, and Etlinger. 3,018,400.
Smith, George E., and R. Chantler, to Smith, Egerton, Engineers Ltd. Spiral conveyors. 3,055,550, 9–25–62, Cl. 222—52.
Smith, George E., and D. Shellek, to Union Carbide Corp. Constant load variable-height spring. 3,065,288, 11–20–62, Cl. 136—111.
Smith, George E. P., Jr., to The Firestone Tire & Rubber Co. N-(propynyl)-2-(thiazole) sulfenamides. 3,020,287, 2–6–62, Cl. 260—306.6.
Smith, George E. P., Jr., to The Firestone Tire & Rubber Co. New nitrogenous organic compounds. 3,038,888, 6–12–62, Cl. 260—79.5.
Smith, George F. : *See*—
Downing, Edward T., and Smith. 3,046,444.
Smith, George H., to Minnesota Mining and Mfg. Co. Chloroformic sulfonic acid. 3,060,048, 10–23–62, Cl. 106—287.
Smith, George S., to Union Carbide Corp. Preparation of ammonium metavanadate. 3,063,795, 11–13–62, Cl. 23—51.
Smith, George W., to E. I. du Pont de Nemours and Co. 1,3-diaminoadamantane dinitrite and method of preparation. 3,040,096, 6–19–62, Cl. 260—563.
Smith, George W., and H. D. Williams, to E. I. du Pont de Nemours and Co. Nitroadamantanes and their preparation. 3,053,907, 9–11–62, Cl. 260—644.
Smith, Gerald C., P. Wiatrek, and M. H. Klatt, to Ed. Friedrich, Inc. Refrigeration circuit for heat pumps. 3,029,614, 4–17–62, Cl. 62—324.
Smith, Gerald D., to Auto-Electronics, Inc. Electronic siren and communication apparatus. 3,051,944, 8–28–62, Cl. 340—384.
Smith, Gerald L. : *See*—
Shipman, James J., and Smith. 3,031,428.
Smith, Gilbert M., to Philco Corp. Differential switching amplifier. 3,026,455, 3–20–62, Cl. 317—149.
Smith, Glen D. and N. W. Mechanical stilt. 3,058,120, 10–16–62, Cl. 3—4.
Smith, Grant M., and E. R. Hibbard, to Ampex Corp. Signal generator. 3,059,053, 10–16–62, Cl. 178—69.5.
Smith, Graydon, and J. E. Bailey, to Clevite Corp. Position measuring apparatus. 3,034,036, 5–8–62, Cl. 323—51.
Smith, Graydon, and J. E. Bailey, to Clevite Corp. Measuring system. 3,070,742, 12–25–62, Cl. 323—60.
Smith, Grover H. Meter register assembly including internal spacer collar. 3,067,612, 12–11–62, Cl. 73—273.
Smith, Grover H., and R. D. Wans ; said Wans assor. to said Smith. Water meter register casings. 3,068,696, 12–18–62, Cl. 73—273.
Smith, H. C. Oil Tool Co. : *See*—
Smith, Kenneth H. 3,029,881.
Smith, Harold J. : *See*—
Goldberg, Alan A., and Smith. 3,063,893.
Smith, Harold R. : *See*—
Stange, Charles W., and Smith. 3,051,286.
Smith, Harold W., to American Liquid Gas Corp. Agricultural method and apparatus for heating, treating, and circulating air. 3,067,541, 12–11–62, Cl. 47—2.
Smith, Harris W. : *See*—
Hunter, Robert H., Hanje, and Smith. 3,047,054.
Hunter, Robert H., and Smith. 3,070,150.
Hunter, Robert H., and Smith. 3,070,317.
Smith, Harrison C., and W. Jung, to Automatic Electric Laboratories, Inc. Emergency reporting telephone system. 3,055,981, 9–25–62, Cl. 179—5.
Smith, Harry B., D. H. Mooney, Jr., and W. Ewanus, to Westinghouse Electric Corp. Pulse doppler radar system. 3,023,409, 2–27–62, Cl. 343—13.
Smith, Harry B., and J. W. Stuntz, to United States of America, Air Force. Gated electrical storage circuit. 3,066,261, 11–27–62, Cl. 328—121.
Smith, Harry F., to Mansfield Sanitary Inc. Valve with tubular resilient seal. 3,048,187, 8–7–62, Cl. 137—437.
Smith, Harry I. Level. 3,069,782, 12–25–62, Cl. 33—213.
Smith, Harry M., Jr. Copy holder for multiple exposures. 3,026,767, 3–27–62, Cl. 88—24.
Smith, Harvey J., to Modern Metal Products Co. Goods display, can draining and towel dispensing cabinet. 3,028,206, 4–3–62, Cl. 312—35.
Smith, Helen E., to Philco Corp. Inner lining assembly for refrigerator cabinet. 3,038,769, 6–12–62, Cl. 312—214.
Smith, Henry J., Jr. : *See*—
Smith, Henry J., Sr. 3,029,757.

Smith, Henry J., Sr., deceased, by H. J. Smith, Jr., executor. Industrial sewing machine adapter. 3,029,757, 4–17–62, Cl. 112—11.

Smith, Henry M.: *See*—
Koda, Nobuo J., Smith, Corderman, and Rodgers. Re. 25,221.

Smith, Herbert E., and C. R. Russell. Process for preparing polysaccharide sulfates. 3,057,855, 10–9–62, Cl. 260—233.5.

Smith, Herbert G., to American Air Filter Co., Inc. Gas burners. 3,016,950, 1–16–62, Cl. 158—116.

Smith, Herbert Q.: *See*—
Deger, Thomas E., and Smith. 3,063,880.
Scott, Francis L., and Smith. 3,039,997.

Smith, Herbert R., to United States of America, Army. Finned projectile support and guide. 3,024,726, 3–13–62, Cl. 102—5.

Smith, Hinsdale, Jr. Winding apparatus. 3,062,469, 11–6–62, Cl. 242—77.1.

Smith, Homer A., to Minerals & Chemicals Philipp Corp. Production of non-caking fertilizer by use of attapulgite clay. 3,041,159, 6–26–62, Cl. 71—64.

Smith, Homer E., to United States of America, Navy. Launcher. 3,029,703, 4–17–62, Cl. 89—1.5.

Smith, Homer P., and G. Wilkinson, to United States Rubber Co. Production of trans-polybutadiene by stereo-specific action of rhodium chloride on butadiene-1,3 in aqueous emulsion. 3,025,286, 3–13–62, Cl. 260—94.3.

Smith, Horace C.: *See*—
Ashton, Robert, and Smith. 3,067,562.

Smith, Horace F.: *See*—
Lovegrove, Henry J., and Smith. 3,023,621.

Smith, Horace L., Jr., to Hupp Corp. Automatic batch weighing apparatus. 3,016,100, 1–9–62, Cl. 177—52.

Smith, Horace L., Jr., and V. Lichtenstein, to Philip Morris, Inc. Apparatus and method for measuring the volume and density of solid material. 3,060,724, 10–30–62, Cl. 73—32.

Smith, Horace V., to Oil Metering and Processing Equipment Corp. Apparatus and method for testing liquid shrinkage. 3,031,885, 5–1–62, Cl. 73—53.

Smith, Horace V., to Oil Metering and Processing Equipment Corp. Rotary valve. 3,032,066, 5–1–62, Cl. 137—625.43.

Smith, Horace V., to Oil Metering and Processing Equipment Corp. Liquid metering apparatus. 3,045,485, 7–24–62, Cl. 73—224.

Smith, Horace V., to Oil Metering and Processing Equipment Corp. Double float liquid metering apparatus. 3,054,290, 9–18–62, Cl. 73—224.

Smith, Howard, Paper Mills Ltd.: *See*—
Stidwill, George B. M. 3,030,107.
Tomlinson, George H., and G. H. Tomlinson, II. 3,046,-182.

Smith, Hubert T., and J. K. Lash, to United States Rubber Co. Accessory for tire shaping and curing presses. 3,067,-466, 12–11–62, Cl. 18—17.

Smith, Hugh C. Support for small boats. 3,065,475, 11–27–62, Cl. 9—30.

Smith, Hugh R., Jr., to Stauffer Chemical Co. Electron-beam furnace with beam emission suppressors. 3,040,112, 6–19–62. Cl. 13—31.

Smith, J. K., Research & Development Co.: *See*—
Smith, John K. 3,037,651.

Smith, Jack: *See*—
Custin, Thomas G., and Smith. 3,031,623.
Klopp, James W., and Smith. 3,043,263.
Sweett, Henry C., Parsley, and Smith. 3,042,998.

Smith, Jack C., and E. E. Etterman, to Detrex Chemical Industries, Inc. Batch extraction rinse. 3,046,081, 7–24–62, Cl. 8—159.

Smith, Jack C., E. E. Etterman, and R. T. Romine, to Detrex Chemical Industries, Inc. Centrifugal extractor. 3,063,-564, 11–13–62, Cl. 210—78.

Smith, Jack V.: *See*—
Wieslander, Frederick W., Copony, Davidson, Alexander, and Smith. 3,030,015.

Smith, Jack W.: *See*—
Ahlbeck, Richard A., and Smith. 3,068,511.

Smith, James: *See*—
Monroe, Ernest M., and Smith. 3,069,827.
Schmitt, Edward J., and Smith. 3,023,963.

Smith, James Campbell, Inc.: *See*—
Rogant, Humbert R. 3,027,961.

Smith, James D., to Ronson Corp. Windshield lighter structure. 3,055,201, 9–25–62, Cl. 67—7.1.

Smith, James E., C. J. Berger, and C. B. Skinner, to Chemetron Corp. Indicating systems for vertical lifting apparatus. 3,036,664, 5–29–62, Cl. 187—9.

Smith, James G.: *See*—
Kibler, Charles J., Bell, and Smith. 3,033,822.
Kibler, Charles J., Bell, and Smith. 3,033,826.
Kibler, Charles J., Bell, and Smith. 3,033,827.
Kibler, Charles J., Bell, and Smith. 3,049,506.

Smith, James G., to Eastman Kodak Co. Synergistic catalyst composition containing a group II metal salt and an arsenic compound for preparing condensation-type polyesters. 3,068,205, 12–11–62, Cl. 260—75.

Smith, James J. S.: *See*—
Tryhorn, Donald W., and Smith. 3,064,417.

Smith, James K.: *See*—
Wintermute, Glenn E., and Smith. 3,028,667.
Wintermute, Glenn E., Smith, and Brighton. 3,022,211.

Smith, James L.: *See*—
Harrington, Robert C., Jr., and Smith. 3,038,877.

Smith, James L., to Bell Telephone Laboratories, Inc. Magnetic memory circuits. 3,060,411, 10–23–62, Cl. 340—174.

Smith, James L., and R. C. Harrington, Jr., to Eastman Kodak Co. Synthetic fibers and fabrics having microbicidal activity. 3,034,957, 5–15–62, Cl. 167—38.5.

Smith, James M.: *See*—
Short, Joe T., and Smith. 3,029,454.

Smith, James M., to Sylvania Electric Products Inc. Heater working machine and method. 3,033,241, 5–8–62, Cl. 140—71.5.

Smith, James T., to International Business Machines Corp. Information storage device employing atomic particle bombardment to effect semi-permanent change in target lattice. 3,054,961, 9–18–62, Cl. 328—124.

Smith, Jean: *See*—
Smith, Bobby L. and J. 3,050,333.

Smith, Joe D., 33⅓% to C. E. Adkins, Dual control safety brake. 3,067,842, 12–11–62, Cl. 188—152.

Smith, John C. Recoilless flamethrower. 3,016,086, 1–9–62, Cl. 158—28.

Smith, John D. Liquid dispensers. 3,036,740, 5–29–62, Cl. 222—131.

Smith, John E., to Holley Carburetor Co. Pumps. 3,016,843, 1–16–62, Cl. 103—170.

Smith, John E., to Lees, James and Sons Co. Industrial apparatus, method, and product. 3,020,863, 2–13–62, Cl. 112—7.

Smith, John F.: *See*—
Pailthrop, John R., and Smith. 3,656,767.

Smith, John F., to Motorola, Inc. Frequency selective signalling system. 3,039,081, 6–12–62, Cl. 340—171.

Smith, John H., to E. I. du Pont de Nemours and Co. Alkaline earth sulfide in curing of fluorocarbon elastomer. 3,039,-992, 6–19–62, Cl. 260—45.7.

Smith, John F., to E. I. du Pont de Nemours and Co. Process for the preparation of polyurethane elastomers. 3,061,574, 10–30–62, Cl. 260—37.

Smith, John G., to Burroughs Corp. Magazine for holding sheets. 3,061,304, 10–30–62, Cl. 271—62.

Smith, John H., to Correct-Air Corp. Air seal for adjustable motor mount. 3,027,736, 4–3–62, Cl. 62—428.

Smith, John H., and R. H. Miller; said Miller assor. to said Smith. Cam-controlled liquid dispenser. 3,047,119, 7–31–62, Cl. 194—87.

Smith, John I.: *See*—
Sallach, Max E., and Smith. 3,027,070.

Smith, John J., to Mueller Co. Method and apparatus for connecting a service pipe to a main. 3,038,484, 6–12–62, Cl. 137—15.

Smith, John J., to Mueller Co. Stopper inserting and extracting machine. 3,046,645, 7–31–62, Cl. 29—240.

Smith, John K., to J. K. Smith Research & Development Co. Automatic handling apparatus. 3,037,651, 6–5–62, Cl. 214—653.

Smith, John K. High speed boat paddles. 3,068,498, 12–18–62. Cl. 9—24.

Smith, John O.: *See*—
Scola, Daniel A., Smith, and Wineman. 3,064,061.

Smith, John W., Jr.: *See*—
Clarke, John V., Jr., Metro, and Smith. 3,068,084.

Smith, John P., Jr., to The Daven Co. Indicator and totalizer systems. 3,040,700, 6–26–62, Cl. 116—135.

Smith, John R., to McGraw-Edison Co. Induction apparatus. 3,045,195, 7–17–62, Cl. 336—60.

Smith, John R., to Gopher Motor Rebuilding, Inc. Welding jig. 3,063,410, 11–13–62, Cl. 118—503.

Smith, John W.: *See*—
Littlefield, Carl, and Smith. 3,069,826.

Smith, John W., to Eastman Kodak Co. Apparatus for opening continuous multifilament crimped tow. 3,016,581, 1–16–62, Cl. 19—65.

Smith, John W., to Potlatch Forests, Inc. Spacing apparatus for parallel bonding of boards. 3,038,511, 6–12–62, Cl. 144—281.

Smith, John W., to Eastman Kodak Co. False twisting apparatus for tow. 3,043,084, 7–10–62, Cl. 57—77.3.

Smith, John W., Jr., to Plas-Tainer Inc. Sealing means. 3,022,918, 2–27–62, Cl. 215—56.

Smith, Joseph A., to Allied Chemical Corp. Process for pebbling by spraying a mixture of ammonium nitrate and ammonium phosphates. 3,037,855, 6–5–62, Cl. 71—64.

Smith, Joseph B. Split coupling. 3,017,204, 1–16–62, Cl. 285—373.

Smith, Joseph B. Pipe coupling. 3,028,180, 4–3–62, Cl. 285—348.

Smith, Joseph C., to Blu Strike Blade Co. Dispensing magazine for razor blades. 3,070,260, 12–25–62, Cl. 21—102.

Smith, Joseph W.: *See*—
Steen, Donald E., and Smith. 3,034,558.

Smith, Keith L.: *See*—
Thompson, Bruce R., Hill, and Smith. 3,020,229.

Smith, Keith L., to Union Carbide Corp. Coagulation of dispersed solids. 3,020,230, 2–6–62. Cl. 210—54.

Smith, Keith L., to Union Carbide Corp. Alkylene oxide polymers stabilized with aminoformaldehyde condensation products. 3,063,960, 11–13–62, Cl. 260—45.2.

Smith, Kenneth A., and W. J. Tomsic, to Sinclair Research, Inc. Process for the conversion of hydrocarbons with the use of an expanding transfer line reactor. 3,041,273, 6–26–62, Cl. 208—153.
Smith, Kenneth A., T. M. Jones, Jr., and E. T. Williams, Jr. Plastic carton. 3,063,595, 11–13–62, Cl. 220—113.
Smith, Kenneth C.: *See*—
Schuftan, Paul M., and Smith. 3,034,306.
Smith, Kenneth D., to Bell Telephone Laboratories, Inc. Proximity fuze with electro-optical apparatus. 3,060,857, 10–30–62, Cl. 102—70.2.
Smith, Kenneth L., to International Computers and Tabulators Ltd. Electronic computing machines. 3,030,019, 4–17–62, Cl. 235—157.
Smith Kline & French Laboratories: *See*—
Blank, Benjamin, and Kerwin. 3,021,368.
Burger, Alfred. 3,050,559.
Chow, Alfred W., and Hoover. 3,041,332.
Chow, Alfred W., and Weinstock. 3,041,333.
Cook, Leonard. 3,017,326.
Craig, Paul N. 3,043,839.
Craig, Paul N. 3,043,842.
Craig, Paul N. 3,047,572.
Georgian, Vlasios, and Kerwin. 3,019,236.
Georgian, Vlasios, Kerwin, and Wolff. 3,019,235.
Gordon, Maxwell, and Sutton. 3,033,867.
Hompe, Robert W., Trezona, and Whitecar. 3,016,672.
Kerwin, James F. 3,017,408.
Kerwin, James F. 3,038,909.
Kerwin, James F. 3,038,934.
Kerwin, James F., and Wolff. 3,033,861.
Lund, Alfred R. 3,031,702.
Saggiomo, Andrew J., and Weinstock. 3,016,373.
Saggiomo, Andrew J., and Weinstock. 3,033,866.
Weinstock, Joseph. 3,028,387.
Whitecar, Alten E. 3,044,597.
Zirkle, Charles L. 3,048,595.
Smith Kline & French Laboratories Ltd.: *See*—
Anderson, Elvin L. 3,070,606.
Craig, Paul N. 3,068,222.
Cromley, William H., and Hart. 3,063,630.
Flores, Minerva C., and Loev. 3,055,928.
Ganellin, Charon R., and Spickett. 3,067,204.
Gordon, Maxwell. 3,063,996.
Kaiser, Carl, and Zirkle. 3,059,020.
Kaiser, Carl, and Zirkle. 3,068,283.
Kerwin, James F. 3,064,037.
Raff, Allan M. 3,054,724.
Ullyot, Glenn E. 3,058,979.
Smith, Larrabee M., to Bell Telephone Laboratories, Inc. Digital data converter. 3,051,929, 8–28–62, Cl. 340—172.5.
Smith, Larz M.: *See*—
Kirk, Donald R., and Smith. 3,020,986.
Smith, Laurence H., to Atlas Pacific Engineering Co. Fruit handling machine. 3,061,070, 10–30–62, Cl. 198—33.
Smith, La Vergne L.: *See*—
Phillips, Delbert L., and Smith. 3,026,928.
Smith, Lee. Magnetic indicator for multi-cylinder engine valve setting. 3,016,037, 1–9–62, Cl. 116—124.
Smith, Lee A. Pouring spout device. 3,031,112, 4–24–62, Cl. 222—570.
Smith, Lee B., and C. Woolf, to Allied Chemical Corp. Production of fluoroethylenes. 3,043,889, 7–10–62, Cl. 260—653.5.
Smith, Leland L.: *See*—
Marx, Michael, and Smith. 3,020,275.
Smith, Leland L., T. Foell, Jr., and H. Mendelsohn, to American Cyanamid Co. Refining of demethylchlortetracycline. 3,050,558, 8–21–62, Cl. 260—559.
Smith, Leland L., H. Mendelsohn, and J. J. Goodman, to American Cyanamid Co. 2β-hydroxy-9α-halo-11-oxygenated pregnenes. 3,063,989, 11–13–62, Cl. 260—239.55.
Smith, Leland R.: *See*—
Tomaszek, Edward P., and Smith. 3,030,817.
Smith, Le Roy O.: *See*—
Winger, Jerroid, Smith, and Richter. 3,069,485.
Smith, Lester E.: *See*—
McSherry, James H., and Smith. 3,059,425.
Smith, Lester L.: *See*—
Halvorson, Harlan L. 3,036,508.
Smith, Lester L., to Automatic Electric Laboratories, Inc. Switching selector repeater. 3,019,299, 1–30–62, Cl. 179—18.
Smith, Lester L., to Automatic Electric Laboratories, Inc. Reverting call telephone system. 3,033,931, 5–8–62, Cl. 179—17.
Smith, Lester L., to Automatic Electric Laboratories, Inc. PABX restricted service adapter. 3,055,984, 9–25–62, Cl. 179—27.
Smith, Lillian V. Combination lawn sweeper and incinerator. 3,026,551, 3–27–62, Cl. 15—4.
Smith, Lincoln E.: *See*—
Pezdek, Victor J., and Smith. 3,041,783.
Smith, Lloyd B. Ring type debarker. 3,058,500, 10–16–62, Cl. 144—208.
Smith, Lloyd B. Apparatus for conveying logs axially. 3,068,918, 12–18–62, Cl. 144—246.
Smith, Lloyd B., and J. D. Childress, to Radio Corp. of America. Matrix frame. 3,017,615, 1–16–62, Cl. 340—174.
Smith, Lofton H. Automatic distributor. 3,034,181, 5–15–62, Cl. 19—74.
Smith, Lofton H. Cleaning screen. 3,038,212, 6–12–62, Cl. 19—95.
Smith, Louis B. Golf ball washer. 3,041,645, 7–3–62, Cl. 15—97.
Smith, Lundy E., and E. Douglass. Wheel braking and spinning apparatus. 3,056,567, 10–2–62, Cl. 244—103.
Smith, Lynnval M.: *See*—
Hinkle, John H., Jr., Weaver, and Smith. 3,058,803.
Smith, M. Morton: *See*—
Griffen, Thomas J., and Smith. 3,050,028.
Smith, Mahlon J., to The Washburn Co. Rotary roast rack. 3 049 072 8–14–62. Cl. 99—427.
Smith, Marion S. Rim-load dual wheel kit. 3,068,049, 12–11–62, Cl. 301—36.
Smith, Marvin A., to Universal Oil Products Co. Apparatus for the manufacture of spherical particles. 3,023,171, 2–27–62, Cl. 252—359.
Smith, Marvin H. Fish lure forms. 3,023,534, 3–6–62, Cl. 43—42.22.
Smith, Maurice C., Jr., to Marbill Co. Method of making a bottom structure for shoes. 3,021,572, 2–20–62, Cl. 18—58.
Smith-Meeker Engineering Co.: *See*—
Lindley, Frederick A., Jr. 3,068,466.
Smith, Melvelin B., to Fisk Tool Co. Indicator bracket support. 3,032,809, 5–1–62, Cl. 248—346.
Smith, Merle E. Rock processing machine. 3,016,656, 1–16–62, Cl. 51—72.
Smith, Merlin G.: *See*—
Haven, Byron L., and Smith. 3,063,013.
Smith, Merrill M., and T. M. Knowland, to American Biltrite Rubber Co., Inc. Apparatus for forming plastic sheets. 3,039,137, 6–19–62, Cl. 18—4.
Smith, Merrill M., E. R. Holmstrom, and N. S. Marcus, to American Biltrite Rubber Co., Inc. Luminous floor or wall covering and method of manufacture. 3,049,459, 8–14–62, Cl. 154—49.
Smith, Millard F. Smoke filtering device. 3,045,680, 7–24–62, Cl. 131—10.
Smith, Millard L., and R. E. Witman, to Duval Sulphur & Potash Co. Potash treating process. 3,026,194, 3–20–62, Cl. 71—64.
Smith, Monroe F.: *See*—
Jennings, Edward C., and Smith. 3,032,523.
Smith, Neal J., to California Research Corp. Laterally rigid primacord column. 3,064,570, 11–20–62, Cl. 102—20.
Smith, Nelson J., to General Motors Corp. Refrigerating apparatus. 3,055,193, 9–25–62, Cl. 62—440.
Smith, Nettie O. Paper hangers table and paste container. 3,025,121, 3–13–62, Cl. 312—228.
Smith, Noel W.: *See*—
Smith, Glen D. and N. W. 3,058,120.
Smith, Norman H., and K. R. Gray, to Rayonier Inc. Fluid loss control agent for drilling muds. 3,025,235, 3–13–62, Cl. 252—8.5.
Smith, Norman L.: *See*—
Radley, Jack A., Stanley, and Smith. 3,056,644.
Smith, O. F.: *See*—
Gray, Cameron E., and Smith. 3,066,596.
Smith Oil Agitator Co.: *See*—
Smith, Onis O. 3,022,052.
Smith, Olin K., to Ledex, Inc. Rotary actuator. 3,027,772, 4–3–62, Cl. 74—89.
Smith, Onis O., to Smith Oil Agitator Co. Mixing device for oil tanks with attachably connected power unit. 3,022,052, 2–20–62, Cl. 259—110.
Smith, Orson W., to Smithway Machine Co., Inc. Air actuated platen for sanding machines. 3,049,839, 8–21–62, Cl. 51—144.
Smith, Orville R.: *See*—
Reesby, Carl E., and Smith. 3,054,848.
Smith, Otho W. Power lift for trailer. 3,033,400, 5–8–62, Cl. 214—672.
Smith, Otho W. Vehicle wheel suspension. 3,055,677, 9–25–62, Cl. 301—36—104.5.
Smith, Otto J. M. Dead beat response, resonant load, control system and method. 3,051,883, 8–28–62, Cl. 318—448.
Smith, Otto J. M., to Electro-Measurements, Inc. Method and apparatus for generating a signal and a system and method for utilizing the same. 3,060,378, 10–23–62, Cl. 324—57.
Smith, Owen C. Sawmill set works. 3,021,880, 2–20–62, Cl. 143—118.
Smith, Paul A.: *See*—
Howard, Herbert H., and Smith. 3,045,826.
Howard, Herbert H., Smith, and Lubben. 3,062,377.
Howard, Herbert H., Smith, and Lubben. 3,063,888.
Lubben, Robert A., and Smith. 3,067,504.
Smith, Paul A., to Permanent Filter Corp. Filtration equipment. 3,049,240, 8–14–62, Cl. 210—295.
Smith, Paul E., Jr., to Conval Corp. Pulse modulation recording for telemetering. 3,020,118, 2–6–62, Cl. 346—74.
Smith, Paul F.: *See*—
Leeson, James L., Jr., and Smith. 3,069,600.
Smith, Paul F., to Parker-Hannifin Corp. Double contact fluid seal. 3,061,321, 10–30–62, Cl. 277—180.
Smith, Paul L.: *See*—
Hinds, Gene W., Skinner, and Smith. 3,020,035.
Smith, Paul L., and A. L. Bayes; said Smith assor. to Union Carbide Corp. Method of concentrating fruit juice. 3,044,887, 7–17–62, Cl. 99—205.

Smith, Paul T. Gold plating bath and process. 3,057,789, 10–9–62, Cl. 204—46.

Smith, Peter M., and W. C. Wrhen, to Nnited States Steel Corp. Latch for rotary tables. 3,068,963, 12–18–62, Cl. 188—69.

Smith, Philip B.: *See*—
Haworth, Lionel, Basford, Smith, and Bottoms. 3,067,-628.

Smith, Philip G.: *See*—
Wood, Joseph D., Smith, and Carter. 3,054,876.

Smith, Philip N., to Deering Milliken Research Corp. Condition responsive apparatus and method. 3,044,699, 7–17–62, Cl. 235—92.

Smith, Philip S., to Smith-Dieterich Corp. Multi-cameras for mosaic photography. 3,023,666, 3–6–62, Cl. 88—16.6.

Smith, Philip S., to Smith-Dietrich Corp. Mosaic photography. 3,031,920, 5–1–62, Cl. 88—16.6.

Smith, Prescott A.: *See*—
Shaw, Milton C., Smith, and Cook. 3,055,102.

Smith, Procter A. Carburetor for internal combustion engines. 3,049,852, 8–21–62, Cl. 55—228.

Smith, Ralph E., to Manning, Maxwell & Moore, Hoist with pendant control. 3,032,016, 5–1–62, Cl. 121—46.

Smith, Ralph E., to Mission Mfg. Co. Backup member for elastic elements. 3,036,943, 5–29–62, Cl. 154—52.

Smith, Ralph E., to Mission Mfg. Co. Piston rubbers. 3,049,-385, 8–14–62, Cl. 277—212.

Smith, Ralph N., to Ampex Corp. Frequency discriminator. 3,068,420, 12–11–62, Cl. 329—103.

Smith, Randal E., to Potash Co. of America. Method for producing granular muriate of potash. 3,048,478, 8–7–62, Cl. 23—313.

Smith, Randal E., to Potash Co. of America. Method and means for filtration of slurries. 3,064,813, 11–30–62, Cl. 210—67.

Smith, Randall E., to Republic Fastener Products Corp. Clip ring pliers with offset jaws. 3,069,686, 12–25–62, Cl. 1—220.

Smith, Randlow, to Texaco Inc. Isobutane-olefin alkylation process with flash concentration of depropanizer feed. 3,068,307, 12–11–62, Cl. 260—683.62.

Smith, Randolph E.: *See*—
Hood, George C., Smith, and Pierotti. Re. 25,114.

Smith, Raymond A. Full view non-scuff golf club putter. 3,064,975, 11–20–62, Cl. 273—80.

Smith, Raymond B., to North American Aviation, Inc. Automatic checkout coding system. 3,058,061, 10–9–62, Cl. 324—7.

Smith, Raymond B., B. J. Simmons, and R. W. Hall, to North American Aviation, Inc. Autocollimator. 3,024,365, 3–6–62, Cl. 250—201.

Smith, Raymond D. Conductive system for time switches with wiping contacts. 3,018,339, 1–23–62, Cl. 200—37.

Smith, Raymond D. Backsettable rotary time switch. 3,028,-456, 4–3–62, Cl. 200—36.

Smith, Raymond H., to The La Resista Corset Co. Body supporting garments. 3,021,845, 2–20–62, Cl. 128—463.

Smith, Raymond J., to Minnesota Mining and Mfg. Co. Tape attaching machine. 3,037,335, 6–5–62, Cl. 53—198.

Smith, Raymond K., to Klasing Hand Brake Co. Railway car journal bearing. 3,020,099, 2–6–62, Cl. 308—56.

Smith, Raymond K., to Klasing Hand Brake Co. Railway car journal bearing. 3,020,100, 2–6–62, Cl. 308—56.

Smith, Randolph P., to Ford Motor Co. Pivoted seat back. 3,054,641, 9–18–62, Cl. 297—383.

Smith, Raymond P. Expanding trailer. 3,062,579, 11–6–62, Cl. 296—23.

Smith, Raymond W.: *See*—
Mecum, William D., Smith, and Spokes. 3,061,579.

Smith, Reggie: *See*—
Bury, Harry, Claydon, and Smith. 3,018,631.

Smith, Reginald L., to Parkinson Cowan Ltd. Fluid flow meters. 3,040,578, 6–26–62, Cl. 73—257.

Smith, Reginald S. J., and J. M. Lowe, to Dunlop Tire and Rubber Corp. Pneumatic tires. 3,024,828, 3–13–62, Cl. 152—354.

Smith Research and Development Co., Inc.: *See*—
Kreutzer, Conradin O. 3,061,966.
Kreutzer, Conradin O. 3,069,797.

Smith, Rex, and C. H. Maclean. Photographic developing apparatus. 3,062,122, 11–6–62, Cl. 95—89.

Smith, Rex L.: *See*—
Burkardt, Lohr A., Finnegan, and Smith. 3,046,168.
Finnegan, William G., Smith, and Wiebke. 3,055,780.

Smith, Richard B., 45% to W. M. Jones. Spill-proof device. 3,015,411, 1–2–62, Cl. 220—90.4.

Smith, Richard E.: *See*—
Read, Douglas, Cranford, Major, and Smith. 3,057,187.

Smith, Richard G., to The Lionel Corp. Unloading station. 3,028,027, 4–3–62, Cl. 214—146.5.

Smith, Richard M., to Johnson & Johnson. Pressure sensitive adhesive tape having a release coating of fatty alcohol itaconate. 3,052,566, 9–4–62, Cl. 117—68.5.

Smith, Robbie J. Well cavity plug forming device. 3,032,115, 5–1–62, Cl. 166—181.

Smith, Robert B.: *See*—
Plank, Charles J., Rosinski, and Smith. 3,015,620.

Smith, Robert C. Lamp with adjustable shade sections. 3,035,166, 5–15–62, Cl. 240—81.

Smith, Robert C. M., and E. R. Townley, to Ilford Ltd. Process and solution for bleaching photographic images. 3,061,433, 10–30–62, Cl. 96—60.

Smith, Robert D.: *See*—
Hubbard, Charles L., and Smith. 3,056,226.
Williams, Charles O., Drexelius, and Smith. 3,062,146.

Smith, Robert D. Excavator. 3,015,175, 1–2–62, Cl. 37—192.

Smith, Robert D., to American Enka Corp. Treatment of polyamides. 3,060,550, 10–30–62, Cl. 28—76.

Smith, Robert E.: *See*—
Bauer, Oliver F., Beman, and Smith. 3,069,779.

Smith, Robert E., to Sinclair Refining Co. Reactor with valve for expansion control and quenching. 3,033,657, 5–8–62, Cl. 23—284.

Smith, Robert E. and W. B., and M. J. Wise, to The Flexicore Co., Inc. One piece casting form. 3,023,477, 3–6–62, Cl. 25—121.

Smith, Robert E., and J. D. Jewell, to North American Aviation, Inc. Digital valve. 3,036,598, 5–29–62, Cl. 137—623.

Smith, Robert F.: *See*—
Kirkland, Earl V., Lee, and Smith. 3,058,942.

Smith, Robert H. Anesthesia machines. 3,017,881, 1–23–62, Cl. 128—188.

Smith, Robert J.: *See*—
Harke, Martin W., and Smith. 3,028,945.

Smith, Robert K., and C. S. Popoff, to E. F. Houghton & Co. Sulfur compounds. 3,041,280, 6–26–62, Cl. 252—33.6.

Smith, Robert L.: *See*—
Grant, Clyde P., Forrester, and Smith. 3,037,381.

Smith, Robert M.: *See*—
Bartz, Quentin R., Ehrlich, Knudsen, and Smith. 3,023,-204.
Rogers, William A., Jr., Woehst, and Smith. 3,022,315.

Smith, Robert M., to General Electric Co. Vacuum cleaner with floating floor nozzle. 3,032,799, 5–8–62, Cl. 15—359.

Smith, Robert M., to Owens-Illinois Glass Co. Bonded glass surfaces and method therefor. 3,070,474, 12–25–62, Cl. 154—3.

Smith, Robert R., D. C. M. Mann, and E. Bevis, to B.X. Plastics Ltd. Irradiation grafting of acrylonitrile on vinyl chloride-vinylidene chloride copolymers. 3,066,085, 11–27–62, Cl. 204—154.

Smith, Robert R., D. C. M. Mann, and G. R. Logie, to B.X. Plastics Ltd. Process for the polymerization of ethylenically unsaturated monomers with a diphenyl ethane accelerator. 3,066,115, 11–27–62, Cl. 260—45.5.

Smith, Robert S.: *See*—
Eggenberger, John S., Lloyd, and Smith. 3,019,123.
Eggenberger, John S., Lloyd, and Smith. 3,047,423.

Smith, Robert S. C., to J. S. Hillyer. Reciprocating pump. 3,043,235, 7–10–62, Cl. 103—192.

Smith, Robert W., to Aladdin Mfg. Co. Portable heater for golf balls. 3,066,925, 12–4–62, Cl. 263—5.

Smith, Robert W., and R. A. Vaughan, to Dresser Industries, Inc. Vehicle-aligning apparatus. 3,042,309, 7–3–62, Cl. 238—14.

Smith, Roger G. Tone-color projector. 3,062,085, 11–6–62, Cl. 84—464.

Smith, Ronald F. Water sleds. 3,045,264, 7–24–62, Cl. 9—310.

Smith, Ronald V., to J. E. Lonergan Co. Safety relief valve. 3,027,916, 4–3–62, Cl. 137—557.

Smith, Ronald V., to J. E. Lonergan Co. Safety relief valve. 3,042,068, 7–3–62, Cl. 137—315.

Smith, Roy J. Hydraulic brake system. 3,058,309, 10–16–62, Cl. 60—54.6.

Smith, Roy J., to The General Electric Co. Ltd. Thermal reactors. 3,055,820, 9–25–62, Cl. 204—193.2.

Smith, Roy R., Jr., to Econo-Pak Register Co., Inc. Rotary press. 3,049,078, 8–14–62, Cl. 101—228.

Smith, Rulo W., to Rieke Metal Products Corp. Vented pour spout. 3,040,938, 6–26–62, Cl. 222—478.

Smith, S., & Sons (England) Ltd.: *See*—
Bowen, Tom. 3,062,061.
Brazier, Horace J. 3,050,986.
Gordon, George A. D., Taylor, and Wood. 3,050,988.
Ramsay, Dorothy A. 3,028,759.
Rankin, Alexander B. C. 3,049,761.
Worster, Norman G. 3,052,134.

Smith, Samuel: *See*—
Bolstad, Archibald N., Sherman, and Smith. 3,068,187.
Sherman, Patsy O., and Smith. 3,062,765.

Smith, Samuel, to Stevens & Bullivant Ltd. Rotary swaging and forging machines. 3,064,508, 11–20–62, Cl. 78—22.

Smith, Samuel V., to Pneu-Hy Co. Hydraulic pneumatic well pumping apparatus. 3,058,307, 10–16–62, Cl. 60—52.

Smith, Samuel V., to Pneu-Hy Co. Hydraulic pumping apparatus. 3,058,308, 10–16–62, Cl. 60—52.

Smith, Sherman S. Creeper. 3,019,533, 2–6–62, Cl. 36—7.6.

Smith, Sidney R., Jr., to General Electric Co. Transformer cover. 3,035,209, 5–15–62, Cl. 317—15.

Smith, Stanley A.: *See*—
Fortune, James D. 3,025,003.

Smith, Stanley J.: *See*—
Knudsen, Knud J., and Smith. 3,060,415.

Smith, Stanley J., to Simmonds Precision Products, Inc. Liquid contents gauges. 3,022,665, 2–27–62, Cl. 73—304.

Smith, Stanton B., and A. J. Juhola, to Pittsburgh Chemical Co. Filtration media. 3,015,367, 1–2–62, Cl. 183—4.

Smith, Stephen H., to Norton Co. Grinding machine. 3,034,-268, 5–15–62, Cl. 51—237.

Smith, Theodore H. : *See*—
Domizi, Dante J., Holasek, Smith, and Lannan. 3,058,-004.
Smith, Theodore R. : *See*—
King, Edwin V., Jr., and Smith. 3,063,808.
Smith, Thomas A. : *See*—
Daniels, Charles J., and Smith. 3,020,908.
Smith, Thomas C. : *See*—
Baker, Kenneth L., Smith, and Pechmann. 3,048,111.
Smith, Thomas O., III : *See*—
Doty, Luther L., Jr., and Smith. 3,063,667.
Smith, Thomas R., to The Maytag Co. Fluid control system for washing machine. Re. 25,125, 2–20–62, Cl. 68—12.
Smith, Thomas R., to The Maytag Co. Clothes drier. 3,022,-581, 2–27–62, Cl. 34—75.
Smith, Thomas R., to The Maytag Co. Combination washer-drier having an air flow water trap. 3,050,974, 8–28–62, Cl. 68—20.
Smith, Thomas R., and P. S. Decatur, to The Maytag Co. Exhaust vent suds control. 3,035,429, 5–22–62, Cl. 68—20.
Smith, Thomas R., G. J. Davis, W. J. McNally, and J. R. Cochran, to The Maytag Co. Automatic dispenser for washing machine. 3,035,431, 5–22–62, Cl. 68—207.
Smith, Thomas W. : *See*—
Kariher, Donald H., and Smith. 3,056,407.
Smith, Thomas W., to Watts Electric & Mfg. Co. Metering device for plastic material. 3,038,507, 6–12–62, Cl. 141—117.
Smith, Thomas W., and J. Weir, to The English Electric Co. Ltd. Air intakes for air-consuming propulsion engines of supersonic aircraft. 3,066,892, 12–4–62, Cl. 244—53.
Smith, Tom F., 50% to R. E. Corney, Jr. Curved projection screen. 3,026,770, 3–27–62, Cl. 88—28.90.
Smith, Tom F., 50% to R. E. Carney, Jr. Motion picture camera for making panoramic pictures. 3,055,265, 9–25–62, Cl. 88—16.6.
Smith, Tom F., 50% to R. E. Carney, Jr. Panoramic projection system. 3,063,334, 11–13–62, Cl. 88—16.6.
Smith, Tom R., to American Air Filter Co., Inc. Gas filtering method and apparatus. 3,053,030, 9–11–62, Cl. 55—242.
Smith, Tom R., to American Air Filter Co., Inc. Gas filter apparatus. 3,055,158, 9–25–62, Cl. 55—118.
Smith, Traver J., ½ to G. I. Magnuson and ½ to G. I. and R. Magnuson and L. J. Fox, as trustees. Methods and apparatus for color grading of fruits and vegetables. 3,016,788, 1–16–62, Cl. 88—14.
Smith, Uel L., to Westinghouse Electric Corp. Instrument shunts. 3,059,182, 10–16–62, Cl. 324—126.
Smith, Verity C., to Barnstead Still and Sterilizer Co. Filtration apparatus. 3,031,082, 4–24–62, Cl. 210—232.
Smith, Victor : *See*—
Alvin, Walter D., and Smith. 3,028,305.
Smith, W. H., & Son Ltd. : *See*—
Dyke, Leslie A. 3,052,182.
Smith, W. H., & Son (Alacra) Ltd. : *See*—
Kruger, Michel H., and Smith. 3,052,794.
Smith, Walter H. B., deceased, by K. B. Groves, executrix. Hammer assembly for a pistol. 3,016,646, 1–16–62, Cl. 42—69.
Smith, Walter H. B., deceased, by K. B. Groves, executrix. Breech bolt lock. 3,053,002, 9–11–62, Cl. 42—16.
Smith, Walter J. : Steering connection between a barge and a pusher tug. 3,035,537, 5–22–62, Cl. 114—236.
Smith, Walter N. Single lever control means for remote push-pull mechanisms. 3,057,221, 10–9–62, Cl. 74—472.
Smith, Walter R. : *See*—
Spencer, Walter B., Smith, and Cosman. 3,024,089.
Smith, Walter V. : *See*—
Erickson, Edward B., Jacobsen, Giusti, Merrill, and Smith. 3,053,400.
Smith, Walter W., to General Motors Corp. Die. 3,034,465, 5–15–62, Cl. 113—49.
Smith, Walton R., and N. F. Helper, to States Batteries, Inc. Battery carton. 3,056,536, 10–2–62, Cl. 229—14.
Smith, Ward H., to Birko Chemical Corp. Treatment of animal by-products. 3,025,166, 3–13–62, Cl. 99—107.
Smith Warner B. : *See*—
Smith, Robert E., and W. B., and Wise. 3,023,477.
Wise, Mark J., and Smith. 3,039,632.
Smith, Watson B. : *See*—
Hale, James F., and Smith. 3,028,242.
Hale, James F., and Smith. 3,054,675.
Smith, Wendell V., to United States Rubber Co. Irradiation cross-linking of copolymers. 3,053,742, 9–11–62, Cl. 204—154.
Smith, Wendell V., to United States Rubber Co. Irradiation of vinyl chloride polymer plus two unsaturated monomers. 3,061,531, 10–30–62, Cl. 204—154.
Smith, Wilfred A. : *See*—
Woodard, Harry W., Smith, and Kruger. 3,028,040.
Smith, Willard B. Hanger block clamps for castable roof structures. 3,029,055, 4–10–62, Cl. 248—228.
Smith, Willard C. Pea sheller. 3,026,877, 3–27–62, Cl. 130—30.
Smith, William A. Grease extracting vent with heating means. 3,021,777, 2–20–62, Cl. 98—115.
Smith, William B., Jr. : *See*—
Wright, Ernest L., III, Smith, and Wayland. 3,038,821.
Smith, William C. : *See*—
Hubbert, Marion K., Smith, and Johnson. 3,046,601.
Ross, John M., and Smith. 3,068,238.
Smith, William C., to E. I. du Pont de Nemours and Co. Preparation of selected inorganic fluorides. 3,026,179, 3–20–62, Cl. 23—203.
Smith, William C., and C. K. Henninger, to Ametek, Inc. Load indicator for centrifugal separator. 3,044,625, 7–17–62, Cl. 210—86.
Smith, William E., to Stauffer Chemical Co. Processes for preparing liquid stable aluminum alkoxide materials. 3,068,263, 12–11–62, Cl. 260—448.
Smith, William E., and A. R. Anderson, to Stauffer Chemical Co. Adducts of aluminum monohydroxy diacetylsalicylate and esters and the process for preparing same. 3,041,240, 6–26–62, Cl. 167—65.
Smith, William G., to Pittsburgh Plate Glass Co. Stretching apparatus. 3,019,475, 2–6–62, Cl. 18—1.
Smith, William H., to Shampaine Industries Inc. Control systems for mechanical respirators. 3,037,498, 6–5–62, Cl. 128—30.
Smith, William H., and H. E. Grenoble, to General Electric Co. Treatment of steam for the protection of certain metal parts. 3,032,386, 5–1–62, Cl. 21—2.7.
Smith, William H., R. Frohner, and R. T. Adolphson, to Shampaine Industries, Inc. Incubators for infants. 3,070,086, 12–25–62, Cl. 128—1.
Smith, William J. : *See*—
Downing, Richard M., Mortberg, and Smith. 3,016,576.
Smith, William J., to S & S Vending Machine Co. Package vending machine. 3,028,045, 4–3–62, Cl. 221—10.
Smith, William J., to The Bendix Corp. Attenuator for strong signals in a radio receiver. 3,052,853, 9–4–62, Cl. 330—24.
Smith, William M. : *See*—
Holdsworth, Robert S., and Smith. 3,017,399.
Holdsworth, Robert S., and Smith. 3,063,977.
Smith, William R., and G. R. Monaco, to The A. C. Gilbert Co. Throttle control of model trains on the same track. 3,024,739, 3–13–62, Cl. 104—149.
Smith, William R., and G. R. Monaco, to The A. C. Gilbert Co. Combined toy sawmill and lumber loading station. 3,054,214, 9–18–62, Cl. 46—39.
Smith, William R., W. H. Runk, and M. G. Kretzmer, Jr., to The A. C. Gilbert Co. Pick a back loader and unloader for toy railway. 3,067,540, 12–11–62, Cl. 46—40.
Smith, William V. Lawn mower blade balance indicator. 3,039,313, 6–19–62, Cl. 73—483.
Smith, William V., Lawn mower blade balance indicator. 3,039,313, 6–19–62, Cl. 73—484.
Smith, William W., and H. J. Strauss, to The Electric Storage Battery Co. Storage battery construction. 3,057,942, 10–9–62, Cl. 136—6.
Smith, Willis R., to General Railway Signal Co. Changeable indicator. 3,047,852, 7–31–62, Cl. 340—324.
Smith, Woodrow W. Method and apparatus for straightening automobile frames. 3,050,099, 8–21–62, Cl. 153—32.
Smithburn, George E. Demountable power unit and associated implements. 3,040,590, 6–26–62, Cl. 74—16.
Smithcraft Corp. : *See*—
Kruger, Michel H., 3,052,794.
Smithe, F. L., Machine Co., Inc. : *See*—
Nifontoff, George, and Cicone. 3,060,888.
Novick, Abraham. 3,019,761.
Shearer, Robert, Semple, and Nifontoff. 3,045,592.
Smithers, Phillip G. K., to Trico Products Corp. Windscreen wipers. 3,056,991, 10–6–62, Cl. 15—250.41.
Smithers, V. L., Mfg. Co., The : *See*—
Smithers, Vernon L. 3,031,018.
Smithers, Vernon L., to The V. L. Smithers Mfg. Co. Portable power-driven implement. 3,031,018, 4–24–62, Cl. 172—41.
Smithgall, Harry E. : *See*—
Drake, Oscar A., and Smithgall. 3,016,471.
Smithies, John : *See*—
Bell, Angus S., Smithies, and Briggs. 3,044,914.
Smith-Johannsen, Robert, to S-J Chemical Co. Method of making microporous film. 3,020,597, 2–13–62, Cl. 18—57.
Smith-Johannsen, Robert, to S-J Chemical Co. Method of adhering cured silicone rubber. 3,056,735, 10–2–62, Cl. 204—154.
Smithson, John A. : *See*—
Arnold, George L., Bailey, Lindsay, and Smithson. 3,047,861.
Smithway Machine Co., Inc. : *See*—
Smith, Orson W. 3,049,839.
Smitley, Marion L., to Holley Carburetor Co. Pressurized fuel system. 3,059,692, 10–23–62, Cl. 158—36.3.
Smitmans, Gretchen, and W. K. Vollmer, to Union Carbide Corp. Compositions of partially hydrolyzed vinyl chloride-vinyl acetate copolymers and polyurethane resins, polyethylene coated with same and process for making coated article. 3,024,216, 3–6–62, Cl. 260—45.5.
Smits, Friedolf M. : *See*—
Atalla, Martin M., Ross, and Smits. 3,045,129.
Smits, Wytze B., to Smitsvonk N.V. Research Laboratorium. Ignition system for gaseous and/or liquid fuels. 3,027,493, 3–27–62, Cl. 317—83.
Smitsvonk N.V. Research Laboratorium : *See*—
Smits, Wytze B. 3,027,493.
Smitzer, Louis A. : *See*—
Forester, Harold E., Smitzer, and Gross. 3,060,827.
Smock, George E. : *See*—
Frickert, Philip J., Jr., Russell, and Smock. 3,039,169.

Smock, Robert B. Force proving ring. 3,057,196, 10-9-62, Cl. 73—141.

Smogar, Franjo. Cylindric safety-lock 3,025,695, 3-20-62, Cl. 70—360.

Smolin, Edwin M.: *See*—
Anderson, Richard D., and Smolin. 3,025,319.

Smolin, Edwin M., and R. D. Anderson, to American Cyanamid Co. Acrylic monomers and the preparation thereof. 3,025,322, 3-13-62, Cl. 260—533.

Smolin, William: *See*—
Arnold, George B., Kluge, Schlicht, and Smolin. 3,017,430.

Smoll, Richard M., to The Carlson Co., Inc. Shaft rotating seal, 3,042,415, 7-3-62, Cl. 277—22.

Smoll, Richard M. Clutch or brake diaphragm. 3,060,971, 10-30-62, Cl. 137—795.

Smoot, Charles H., to Republic Flow Meters Co. Electrical servosystem control circuit. 3,017,556, 1-16-62, Cl. 318—448.

Smothers, William J., and J. Selsing, to The Ohio Brass Co. Glazed insulator which comprises a ceramic body and a primary coat under the glaze which has a lower coefficient of thermal expansion than the ceramic body. 3,024,303, 3-6-62, Cl. 174—189.

Smulders, August H. M., to Werf Gusto v/h firma A.F. Smulders, N.V. Apparatus for producing a relative linear displacement betwen a column and a movable body by means of hydraulic pressure. 3,056,585, 10-2-62, Cl. 254—110.

Smulders, Frans, N.V. Maschinefabriek: *See*—
Tulp, Wijbrand J. 3,022,041.

Smulka, Roman: *See*—
Jenkins, George F., and Smulka. 3,028,726.

Smullin, Louis D.: *See*—
Skowron, John F., Haynes, and Smullin. 3,069,588.

Smyser, Harold D.: *See*—
Wheeler, Ora L., and Smyser. 3,036,054.

Smyser, Harry E.: *See*—
Fisch, Jacob, McCormack, and Smyser. 3,051,186.

Smyser, James A. Wheel supporting apparatus. 3,016,934, 1-16-62, Cl. 144—288.

Smyth, Donald, to S. A. Brush Co, Ltd. Brushes and their manufacture. 3,031,708, 5-1-62, Cl. 15—193.

Smyth, Donald M.: *See*—
Lehovec, Kurt, and Smyth. 3,036,144.

Smyth, Henry L. R., D. M. Makow, and S. K. Keays, to National Research Council. Electronic control circuit. 3,022,418, 2-20-62, Cl. 250—17.

Smyth Mfg. Co., The: *See*—
McCahon, John O. 3,068,501.
Schramm, Carl. 3,016,550.

Smyth, Robert R., to Technical Operations, Inc. Electric wave converter. 3,061,769, 10-30-62, Cl. 321—16.

Smyth, Thomas C. Porosity testing of papermaker's felt. 3,056,281, 10-2-62, Cl. 73—38.

Smythe, Carl V., C. E. Neubeck, and E. A. Robbins, to Rohm & Haas Co. Meat tenderizing compositions. 3,033,691, 5-8-62, Cl. 99—222.

Smythe, Robert L., to McGraw-Edison Co. Guy guard. 3,051,278, 8-28-62, Cl. 189—31.5.

Snape, Alfred L., to The Gillette Co. Pilferproof merchandise case. 3,025,958, 3-20-62, Cl. 206—79.

Snape, Alfred L., to The Gillette Co. Display stand. 3,025,968, 3-20-62, Cl. 211—59.

Snap-On Tools Corp.: *See*—
Larson, Kenneth R. 3,069,903.

Snapp, Charles N., Jr., to Temprite Products Corp. Cabinet assembly for water coolers. 3,020,112, 2-6-62, Cl. 312—280.

Snapp, John M., and W. E. Sparrow, to Martin-Marietta Corp. Lightweight printed circuit panel. 3,052,749, 9-4-62, Cl. 174—68.5.

Snappy, Inc.: *See*—
Greenlaw, Lyle E. 3,052,490.

Snare, Nils B. R.: *See*—
Derman, Karl G. E., and Snare. 3,042,417.

Snavely, Benjamin L. Electrical bridge measuring apparatus. 3,028,757, 4-10-62, Cl. 73—398.

Snavely, Benjamin L. Oscillator. 3,049,678, 8-14-62, Cl. 331—168.

Snavely, Earl S., Jr.: *See*—
Evans, George E., Powers, Estes, and Snavely. 3,054,030.

Snead, June L. Diaper cleansing water closet. 3,018,488, 1-30-62, Cl. 4—1.

Sneath, Oswald B., to Multitone Electric Co. Ltd. Communication by induction. 3,043,916, 7-10-62, Cl. 179—82.

Sneath, Oswald B., to Multitone Electric Co. Ltd. Receiver for electromagnetic signals. 3,044,054, 7-10-62, Cl. 340—311.

Snedden, Louis L.: *See*—
Donaldson, Francis, Snedden, and Cone. 3,030,086.

Sneddon, Graham W.: *See*—
Coles, Harold J., and Sneddon. 3,068,164.

Sneddon, Robert A., to Anaconda Aluminum Co. Vibratory conveyor discharge gate. 3,042,360, 7-3-62, Cl. 251—175.

Sneddon, Thomas, to Clyde Paper Co. Ltd. Manufacture of plastic sheets. 3,018,515, 1-30-62, Cl. 18—12.

Sneed, John. Seals. 3,057,629, 10-9-62, Cl. 277—165.

Sneed, John. Seal. 3,057.630, 10-9-62, Cl. 277—165.

Sneen, Franz, to Konstruktioner & Experiment A.B. Hydraulic servo motor. 3,032,020, 5-1-62, Cl. 121—99.

Snelgrove, James A., to Shawinigan Resins Corp. Homopolymer of 1-phenylvinyl acetate and method of producing it. 3,066,120, 11-27-62, Cl. 260—89.1.

Snell, Foster D., Inc.: *See*—
Berkeley, Bernard, and Schoenholz. 3,057,804.

Snell, George W. Florist's easel. 3,058,706, 10-16-62, Cl. 248—27.8.

Snell, Tammie J. L. Novelty birth announcement. 3,069,006, 12-18-62, Cl. 206—47.

Snellen, Paul F., ½ to A. O. Fredrickson. Electrical measuring and control apparatus. 3,025,461, 3-13-62, Cl. 324—46.

Snelling, John E.: *See*—
Hamlyn, Peter M., Snelling, and Horstmann. 3,051,119.

Snelling, Michael A.: *See*—
Dell, Hugh A., and Snelling. 3,046,501.

Snellman, Roger, to Harbison-Walker Refractories Co. Rotary kiln lining block. 3,037,468, 6-5-62, Cl. 110—99.

Snepvangers, Rene C., to Fairchild Recording Equipment Corp. Phonograph pickup cartridge. 3,060,281, 10-23-62, Cl. 179—100.41.

Snia Viscosa Societa Nazionale Industria Applicazioni Viscosa S.p.A.: *See*—
Muench, Werner, Notarbartolo, and Messina. 3,017,394.
Muench, Werner, Notarbartolo, and Silvestri. 3,022,291.

Snider, Harold F.: *See*—
Snider, Kenneth D., Snider, and Raney. 3,037,296.

Snider, Orvill E., R. H. Belden, D. R. Beuerman, and D. W. Seebohm, to Allied Chemical Corp. Purification of caprolactam. 3,021,326, 2-13-62, Cl. 260—239.3.

Snider, Paul E.: *See*—
Jones, Henri J., and Snider. 3,066,666.

Snider, William R., to The Great Lakes Tractor Co. Rotary mower. 3,044,241, 7-17-62, Cl. 56—295.

Snijders, Antonie, to De Staat der Nederlanden, ten deze vertegenwoordigd door de directeurgeneraal der Posterijen, Telegrafie en Telefonie. Reactance logical circuits with a plurality of grouped inputs. 3,059,127, 10-16-62, Cl. 307—88.5.

Snincak, Stephen A. Collar insert. 3,058,119, 10-16-62, Cl. 2—103.

Snitzer, Saul. Method of cementing soles to shoes. 3,056,-988, 10-9-62, Cl. 12—142.

Snoddon, William J., to Yale Rubber Mfg. Co. Adhesive composition for elastomers. 3,051,666, 8-28-62, Cl. 260—3.5.

Snoddy, Max E. High pressure fitting. 3,056,617, 10-2-62, Cl. 285—341.

Snodgrass, Shonloss R.: *See*—
Anderson, Walter L., Snodey, and Welchman. 3,035,259.

Snodgrass, George E. Punting pole. 3,043,261, 7-10-62, Cl. 115—9.

Snodgrass, L. I., Co., The: *See*—
Snodgrass, Alex G. 3,038,651.

Snodgrass, Reuben P., to Sperry Rand Corp. Compound aircraft instrument. 3,033,035, 5-8-62, Cl. 73—178.

Snoek, Johannes: *See*—
Kleis, Derk, and Snoek. 3,070,658.

Snook, Douglas N. Hand tool for opening chain links. 3,055,244, 9-25-62, Cl. 81—15.

Snow, Arnold E., to General Electric Co. Lockable enclosed switch. 3,055,995, 9-25-62, Cl. 200—44.

Snow & Co. Ltd.: *See*—
Noble, John G. 3,035,565.

Snow, Harold A., and H. W. Kettmann, to International Telephone and Telegraph Corp. Broadband diode FM modulator. 3,048,796, 8-7-62, Cl. 332—19.

Snow, Henry J.: *See*—
Slayter, Games, Snow, and Philipps. 3,021,563.
Slayter, Games, Snow, Russell, and Kleist. 3,026,563.

Snow, James F. Sealing structure. 3,025,087, 3-13-62, Cl. 277—112.

Snow, John R.: *See*—
Jewett, John E., Moothart, Morrison, and Snow. 3,015,800.

Snow, Kenneth T.: *See*—
Hankus, Chester P. 3,067,797.
Hankus, Chester P. 3,069,192.

Snow, Lorenzo L.: *See*—
Jeffs, Floyd D., and Snow. 3,042,441.

Snow, Robert E., to International Minerals & Chemical Corp. Beneficiation of calcite-apatite-quartz ores. 3,022,890, 2-27-62, Cl. 209—11.

Snow, Robert E., to International Minerals & Chemical Corp. Process for the beneficiation of sylvinite ore. 3,052,349, 9-4-62, Cl. 209—9.

Snow, Robert E., to International Minerals & Chemical Corp. Beneficiation of ores. 3,063,561, 11-13-62, Cl. 209—3.

Snow, Robert G., to Mechron. Multiple channel electronic switching circuit. 3,047,741, 7-31-62, Cl. 307—88.5.

Snow, Thomas W.: *See*—
Baker, Willard L., and Snow. 3,024,479.

Snow, Walter A., and C. J. Hornbeck, to Carrier Corp. Rotor construction. 3,059,901, 10-23-62, Cl. 253—69.

Snow, William H. Anchor nut assembly with removable shim. 3,033,260, 5-8-62, Cl. 151—41.7.

Snowdon, Donald R., and G. R. Andersen, to Cummins-Chicago Corp. Perforating apparatus. 3,018,036, 1-23-62, Cl. 234—111.

Snowman, John W., and A. T. Bell, to The British Oxygen Co. Ltd. Oxygen supply system. 3,068,879, 12-18-62, Cl. 137—81.

Snowman, William H., to Westinghouse Electric Corp. Refrigerator cabinet. 3,063,775, 11-13-62, Cl. 312—329.

Snoy, Frederick J.: *See*—
Snoy, Joseph B. and F. J. 3,058,373.
Snoy, Joseph B.: *See*—
Richards, Elmer A., and Snoy. 3,064,780.
Snoy, Joseph B. and F. J., to Borg-Warner Corp. Transmission control system. 3,058,373, 10–16–62, Cl. 74—732.
Snyder, Asa E., D. Hornung, and J. K. Liu, to U.S. Industries, Inc. Floats. 3,066,324, 12–4–62, Cl. 9—8.
Snyder, Carl E., N. V. Seeger, E. E. Fauser, A. F. Finelli, and J. A. Lovell, to The Goodyear Tire & Rubber Co. Polyurethane elastomers. 3,043,807, 7–10–62, Cl. 260—75.
Snyder, Carl J., to Westinghouse Electric Corp. Electroresponsive recording device. 3,059,239, 10–16–62, Cl. 346—74.
Snyder, Charles F.: *See*—
Pennington, Robert E., Yule, and Snyder. 3,047,612.
Snyder, Charles W.: *See*—
Reynolds, Alfred O., Plow, and Snyder. 3,023,806.
Snyder, Christopher L., and R. S. Straley, to Indiana General Corp. Matrix for computers. 3,031,649, 4–24–62, Cl. 340—174.
Snyder, Clermont J., to Anaconda Wire and Cable Co. High conductivity tin-bearing aluminum alloy. 3,063,832, 11–13–62, Cl. 75—138.
Snyder, Clyde A., to Bell Intercontinental Corp. Filter. 3,041,808, 7–3–62, Cl. 55—304.
Snyder Corp.: *See*—
Gajdo, Leo P. 3,039,329.
Snyder, Edward C., and J. E. Wolfer, Jr., to Corn Products Co. Non-crystallizing dextrose liquor. 3,066,049, 11–27–62, Cl. 127—38.
Snyder, Edward D., and D. R. Hamilton. Fishing signal device. 3,020,664, 2–13–62, Cl. 43—17.
Snyder, Eugene T. Inserting machine to receive and insert newspapers directly from a newspaper press. 3,052,463, 9–4–62, Cl. 270—57.
Snyder, Francis H., and Associates, Inc.: *See*—
Snyder, Francis H. 3,019,155.
Snyder, Francis H., to Francis H. Snyder and Associates, Inc. Decorative laminates. 3,019,155, 1–30–62, Cl. 162—149.
Snyder, Glenn M., to Landis Tool Co. Feeding movement for sizer shoe of concentric grinder. 3,031,805, 5–1–62, Cl. 51—103.
Snyder, Glenn M., and W. P. Flohr, Jr., to Landis Tool Co. Precision means for positioning machine tool elements. 3,036,411, 5–29–62, Cl. 51—165.
Snyder, Herman B., to Boeing Airplane Co. Process of chemical milling and acid aqueous bath used therefor. 3,052,582, 9–4–62, Cl. 156—18.
Snyder, Herman B., and R. B. Kaylor, to Boeing Airplane Co. Electrolytic acid descaling of metals. 3,025,225, 3–13–62, Cl. 204—145.
Snyder, Herman B., and F. K. Spencer, to Boeing Airplane Co. Process of chemical milling and acid aqueous bath used therefor. 3,061,494, 10–30–62, Cl. 156—18.
Snyder, James M., to E. I. du Pont de Nemours and Co. Production of cyanide salts. 3,015,539, 1–2–62, Cl. 23—79.
Snyder, John C., to Hercules Powder Co. Process for preparation of triethylaluminum. 3,038,922, 6–12–62, Cl. 260—448.
Snyder, John L., III, to Texas Instruments Inc. Masking device for radar mapping unit. 3,032,755, 5–1–62, Cl. 343—5.
Snyder, Joseph A.: *See*—
Morrow, Morris R., Snyder, and Howell. 3,065,171.
Soares, Joseph J.: *See*—
Roy, George L. 3,023,759.
Snyder, Kenneth E., to General Motors Corp. Transmission control valve. 3,027,776, 4–3–62, Cl. 74—472.
Snyder, Kenneth E., to General Motors Corp. Servo pressure regulator. 3,046,809, 7–31–62, Cl. 74—472.
Snyder, Kenneth E., to General Motors Corp. Transmission. 3,057,225, 10–9–62, Cl. 74—677.
Snyder, Merton F., and L. W. Foster, to McCulloch Corp., Marine Products Division. Outboard motor. 3,018,754, 1–30–62, Cl. 115—18.
Snyder, Paul W., Jr.: *See*—
Schreiner, Max, Jr., and Snyder. 3,019,180.
Snyder, Richard P., to Harbison-Walker Refractories Co. Band stresser. 3,063,677, 11–13–62, Cl. 254—51.
Snyder, Richard P., E. Leatham, C. D. Gabor, and A. H. Pack, to Harbison-Walker Refractories Co. Production of dead burned magnesia. 3,060,000, 10–23–62, Cl. 23—201.
Snyder, Robert F., to The Goodyear Tire & Rubber Co. Electrical temperature control apparatus. 3,031,560, 4–24–62, Cl. 219—20.
Snyder, Robert F., to The Goodyear Tire & Rubber Co. Calibration of electrical temperature control. 3,038,983, 6–12–62, Cl. 219—20.
Snyer, Robert F., to The Goodyear Tire & Rubber Co. Retreading system. 3,038,984, 6–12–62, Cl. 219—20.
Snyder, Robert W., to Armstrong Cork Co. Apparatus for producing sheet material. 3,060,502, 10–30–62, Cl. 18—9.
Snyder, Russel D., to Chicago Rawhide Mfg. Co. Shaft seal assembly. 3,061,319, 10–30–62, Cl. 277—92.
Snyder, Verne D., to Sylvania Electric Products Inc. Testing seals. 3,034,338, 5–15–62, Cl. 73—40.7.
Snyder, William: *See*—
Heller, Kenneth G., and Snyder. 3,017,588.
Snyder, William J.: *See*—
Mihalakis, Agis I., Read, and Curtin. 3,063,339.
Snyder, William L. Garment hanger. 3,056,533, 10–2–62, Cl. 223—96.
Snygg, Arnold J., to Minneapolis-Honeywell Regulator Co. Control apparatus. 3,034,038, 5–8–62, Cl. 323—89.
Soares, Joe F., and L. V. Alves; said Soares assor. to said Alves. Food distributing wagon. 3,035,729, 5–22–62, Cl. 214—519.
Soares, Violet: *See*—
Roy, George L. 3,023,759.
Sobchak, John, to The Bendix Corp. Means to prevent zero torque error in a synchro receiver. 3,044,047, 7–10–62, Cl. 340—198.
Sobel Metal Products, Inc.: *See*—
Jonas, Walter M. 3,051,178.
Jonas, Walter M. 3,052,006.
Menkel, Kurt. 3,035,584.
Sobel, Morton. Garment bone. 3,020,557, 2–13–62, Cl. 2—260.
Sobey, Albert J., to General Motors Corp. Bypass engine. 3,016,698, 1–16–62, Cl. 60—35.6.
Sobey, Albert J., and R. M. Swick, to General Motors Corp. Afterburner fuel control. 3,032,980, 5–8–62, Cl. 60—35.6.
Sobin, Ben A.: *See*—
Celmer, Walter D., Murai, Routien and Sobin. 3,021,259.
Sobol, Bruce J. Fluid circulation system. 3,034,505, 5–15–62, Cl. 128—214.
Sobole, Yvan, to Societe Bourguignonne de Mecanique. Apparatus for intensive emission of infra-red radiation. 3,027,935, 4–3–62, Cl. 158—99.
Sobolewski, Edmund W.: *See*—
Howard, Carlton J., and Sobolewski. 3,022,159.
Sobolewski, Edward J. Building structures. 3,047,912, 8–7–62, Cl. 20—16.
Soc. Acc. Emanuel di G. e R. Emanuel & C.: *See*—
Emanuel, Roberto. 3,026,021.
Societe a Responsabilite Limitee Dite Sterimec: *See*—
Fontaine, Jacques. 3,066,720.
Societe a Responsabilite Limitee la Detection Electronique Francaise: *See*—
Guilleux, Robert. 3,028,490.
Societe a Responsabilite Limitee Recherches: *See*—
Lucien, Rene. 3,047,018.
Societe Anonyme dite, La Manufacture de Feutres de Mouzon (Anciens Etablissements Roger Sommer & Ses Fils): *See*—
Maillard, Frederic G. 3,017,918.
Societe Anonyme pour l'Exploitation de Brevets d'Appareils Electroniques Codelec: *See*—
Dubonnet, André. 3,018,652.
Dubonnet, Andre. 3,036,453.
Societe Bertin & Cie: *See*—
Bertin, Jean H., Radosch, and Duthion. 3,066,485.
Societe Chimique de la Grande Paroisse (Azote & Produits Chimiques): *See*—
Du Chaffaut, Roger. 3,067,017.
Societe d'Appareils de Controle et d'Equipment des Moteurs S.A.C.E.M.: *See*—
Mennesson, Bernard R. 3,024,834.
Societe d'Applications Chimiques d'Etudes et de Recherches: *See*—
Montandraud, Jean. 3,062,716.
Societe d'Applications et de Constructions pour Materiel Automobile (S.A.C.M.A.): *See*—
Mennesson, Andre L. 3,043,362.
Societe d'Applications et de Pour Materiel Automobile (S.A.C.M.A.): *See*—
Mennesson, Robert M. 3,044,488.
Societe d'Applications Generales d'Electricite et de Mecanique: *See*—
Marie, Georges R.-P. 3,031,665.
Rabeux, Jean, and Jacob. 3,043,926.
Societe d'Applications Generales d'Electricite et de Mecanique S.A.G.E.M.: *See*—
Judet, Henri. 3,038,428.
Societe de Constructions Mecaniques de Stains: *See*—
Thomas, André. 3,020,846.
Thomas, Andre. 3,026,871.
Societe d'Electro-Chimie d'Electro-Metallurgie et des Acieries Electriques d'Ugine: *See*—
Armand, Marcel. 3,069,240.
Audubert, Rene, and de Lacheisserie. 3,041,253.
Greffe, André. 3,024,508.
Greffe, Andre, Asselin, and Grandjacques. 3,054,670.
Lichtenberger, Robert, and Weiss. 3,068,290.
Mollard, Paul. 3,038,842.
Sable, Andre. 3,033,650.
Sable, Andre. 3,044,837.
Sable, Andre. 3,051,552.
Thermet, Robert, and Parvi. 3,029,295.
Thermet, Robert, and Parvi. 3,029,299.
Societe d'Electronique et d'Automatisme: *See*—
Auricoste, Jean. 3,070,781.
Cogniat, Marcel. 3,018,655.
Dumaire, Marc J. 3,049,302.
Hanlet, Jacques M. N. 3,019,137.
Hanlet, Jacques M. N. 3,030,515.
Hanlet, Jacques M. N. 3,030,541.
Hanlet, Jacques M. N. 3,035,177.
Lapuyade, Robert H. 3,040,182.
Lapuyade, Robert H. 3,040,229.
Raymond, Francois H., and Henry-Baudot. 3,029,518.
Raymond, Francois H., and Jeudon. 3,062,995.
Raymond, Francois H., Richard, Recoque, and Brodin. 3,058,098.
Richard, André M. 3,041,584.

Societe de l'Electronique Francaise: *See*—
Jakoubovitch, Albert. 3,064,108.
Societe de Prospection Electrique, Procedes Schlumberger: *See*—
Berthelin, Bruno P. 3,016,959.
Societe des Etablissements Malicet & Blin: *See*—
Bischoff, Charles A. 3,019,510.
Societe d'Etude de Vehicules S.E.V.: *See*—
Schwander, Erwin. 3,033,270.
Schwander, Erwin. 3,033,271.
Schwander, Erwin. 3,064,631.
Societe d'Etude des Industries du Petrole Au Port de Strasburg (Societe a Responsabilite Limitee): *See*—
Donnet, Jean-Baptiste A. 3,023,118.
Societe d'Etudes Chimiques pour l'Industrie et l'Agriculture: *See*—
Rubin, Maurice. 3,022,348.
Societe d'Etudes de Machines Speciales, Societe Anonyme: *See*—
Chambon, Louis J. 3,057,241.
Societe d'Etudes, d'Inventions et de Brevets-S.E.I.B.: *See*—
Carriol, Louis A. 3,054,531.
Societe d'Etudes et Conseils A.E.R.O.: *See*—
Dufour, Roland. 3,063,468.
Societe d'Etudes et d'Applications Biochimiques (S.E.A.B.), Societe a Responsabilite Limitee dite: *See*—
Lallouette, Pierre. 3,036,960.
Societe d'Etudes et de Brevets S.A.: *See*—
Razis, Andre. 3,070,322.
Societe d'Etudes et de Participations Eau, Gaz.: *See*—
Horgen, Helge. 3,046,727.
Huber, Robert. 3,049,866.
Societe d'Etudes et de Participations Eau, Gaz, Electricite Energie S.A.: *See*—
Horgen, Helge. 3,020,706.
Horgen, Helge. 3,038,298.
Societe d'Etudes et de Participations pour l'Industrie et le Commerce de la Bonneterie: *See*—
Loizillon, Guy. 3,015,943.
Societe d'Etudes et d'Exploitation du Generateur a Piston Libre: *See*—
Brun, Georges. 3,056,355.
Societe d'Etudes et d'Exploitation pour le Transport Continu par Canalisation Mobile, par Canalisation Mobile, par abreviation Secéam: *See*—
Hubert, Jean M. A. 3,066,615.
Societe d'Etudes pour le Stockage et le Transport sous-marins des Fluides (S.O.M.A.F.): *See*—
Denis, Louis, Wolff, and Brocard. 3,018,748.
Societe d'Etudes Pour le Traitement et l'Utilisation des Eaux-S.E.T.U.E.: *See*—
Gomella, Cyril. 3,019,183.
Gomella, Cyril. 3,063,924.
Societe d'Exploitation de Brevets de Machines Agricoles (S.E.B.M.A.): *See*—
Bay, Jack A. M. 3,066,983.
Societe d'Exploitation des Brevets CLS: *See*—
Clatot, Alfred, Lemoine, and Segal. 3,021,594.
Societe d'Exploitation des Laboratoires Jacques Logeais (S.A.R.L.): *See*—
Maillard, Jacques G. A. E., Morin, and Benard. 3,065,134.
Maillard, Jacques G. A. E., Morin, Vincent, and Benard. 3,047,462.
Societe Financiere de la Cellulose: *See*—
Gonzalez, Jacques de los S. 3,051,209.
Societe Financiere d'Expansion Commerciale et Industrielle S.A. "Spindex": *See*—
Ludwig, Gunter. 3,067,685.
Societe Francaise de Recherches Biochimiques H. Besson & Cie: *See*—
Debay, Andre. 3,016,399.
Societe Industrielle de Liaisons Electriques: *See*—
Hours, Georges. 3,024,411.
Noirclerc, André. 3,031,589.
Societe Industrielle de Mecanique et Carrosserie Automobile-Simca: *See*—
Marchetti, Carlo. 3,019,030.
Societe Industrielle et Commerciale des Ourvriers Lunetiers (Cottet, Poichet, Tagnon & Cie): *See*—
Beasse, Jacques. 3,025,761.
Societe Industrielle Generale de Mecanique Appliquee S.I.G.M.A.: *See*—
Pomper, Victor. 3,018,628.
Societe Le Lit Tous Soins: *See*—
Borotra, Henriette. 3,023,429.
Societe Nationale d'Etude et de Construction de Moteurs d'Aviation: *See*—
Bertin, Jean H., Bauger, Kadosch, and Maunoury. 3,041,823.
Bertin, Jean H., and Kadosch. 3,020,713.
Bertin, Jean H., Kadosch, and Maunoury. 3,016,699.
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Carlotti, Pierre F. 3,024,608.
Dumez, Raoul H. 3,045,484.
Eggers, Gerhard, and Dumez. 3,045,953.
Eggers, Gerhard, and Ernst. 3,020,714.
Eggers, Gerhard, Dumez, and Ernst. 3,058,691.

Societe Nationale d'Etude et de Construction de Moteurs d'Aviation: *See*—Continued
Eggers, Gerhard, Ernst, Gire, and Tremouilles. 3,036,-430.
Ernst, Gunther. 3,041,015.
Ernst, Günther, and Eggers. 3,018,988.
Feraud, Roger A., and Alder. 3,048,966.
Frenzal, Otto. 3,049,005.
Gelin, Paul. 3,041,829.
Minos, Jean-Marie. 3,054,256.
Poujade, Jules C. J. 3,035,412.
Rosekopf, Hans. 3,042,462.
Seifferlein, Theo. 3,045,425.
Trinler, Alfred. 3,039,988.
Vesper, Walter, Schinzinger, and Bauger. 3,026,675.
Societe Technique pour l'Industrie Nouvelis S.A. "Stin": *See*—
Hofstetter, Ernst, and Haas. 3,015,725.
Sockel, William G., and V. F. Gongoll, to The Electric Storage Battery Co. Face protective devices. 3,052,887, 9–11–62, Cl. 2—9.
Sockell, William J., Sr. Journal lubricator pad. 3,042,465, 7–3–62, Cl. 308—243.
Socony Mobil Oil Co., Inc.: *See*—
Anderson, Conroy D., and Cramer. 3,041,269.
Anderson, Conroy D., Cramer, and Houser. 3,041,271.
Andress, Harry J., Jr. 3,031,284.
Andress, Harry J., Jr. 3,046,224.
Andress, Harry J., Jr., and Gee. 3,031,282.
Andress, Harry J., Jr., and Gee. 3,039,860.
Andress, Harry J., Jr., and Gee. 3,039,861.
Andress, Harry J., Jr., and Gee. 3,046,102.
Baker, John E. 3,030,298.
Becker, Myron. 3,020,136.
Becker, Myron. 3,031,283.
Behn, Robert A. 3,028,315.
Bergstrom, Eric V. 3,057,404.
Bergstrom, Eric V. 3,067,131.
Bergstrom, Eric V. 3,069,348.
Berry, James E. 3,053,878.
Boenau, Arthur H., Bruins, and Salvesen. 3,062,771.
Bourguet, Jean M., and Drew. 3,049,013.
Brennan, James A. 3,015,369.
Brennan, William R. 3,049,380.
Brooks, Frank W., Jr. 3,050,460.
Brooks, Warren B. 3,027,952.
Ciapetta, Frank G., Coonradt, and Garwood. 3,015,549.
Ciapetta, Frank G., Coonradt, and Garwood. 3,023,159.
Ciapetta, Frank G., Coonradt, and Garwood. 3,046,219.
Connally, Carl, Jr., and Justen. 3,047,063.
Connally, Carl A., Jr. 3,026,716.
Cook, Evin L. 3,018,834.
Coonradt, Harry L., and Leaman. 3,048,536.
Daudin, Jacques, and Smith. 3,063,852.
Daudin, Jacques P. M., and Smith. 3,037,867.
Davis, John B., and Raymond. 3,057,784.
Davis, William R. 3,069,351.
Drake, Leonard C. 3,015,541.
Drew, Robert D. 3,051,466.
Dunlap, Peggy M. 3,042,610.
Eastwood, Sylvander C. 3,050,935.
Eastwood, Sylvander C., Oleck, and Wantuck. 3,068,169.
Edwards, Roy T., and Westall. 3,052,623.
Elliott, Kenneth M. 3,054,744.
Frick, Gilbert R. 3,025,916.
Frilette, Vincent J. 3,033,778.
Frost, Holloway H., and Hoops. 3,048,847.
Gee, Paul Y. C., and Andress. 3,034,876.
Gee, Paul Y. C., and Andress. 3,051,562.
Gee, Paul Y. C., and Andress, Jr. 3,068,083.
Gersie, John J., and Nelson. 3,042,640.
Godbey, John K. 3,048,447.
Groenendyke, Goethe M. 3,021,074.
Hamilton, Lyle A., and Landis. 3,040,057.
Hardin, Edward P., Jr., and Medlin. 3,060,116.
Hodges, Hayden D., and Dean. 3,044,298.
Holzinger, Rudolph J. 3,019,190.
Joslin, Charles M. 3,046,886.
Koch, Robert L., Ramey, and Jenkins. 3,036,632.
Krulish, John A. C. 3,033,026.
Kush, Vernon P. 3,052,624.
Levine, William S. 3,041,870.
Locher, J Hartley. 3,028,923.
Malakoff, Norman L., and Nelson. 3,060,045.
McClure, Carroll D. 3,064,753.
McLaughlin, Robert L. 3,069,478.
McLaughlin, Robert L., and Schick. 3,023,245.
Miller, Lawrence O., Schick, and McLaughlin. 3,027,707.
Mueller, William F. 3,038,115.
Munns, George W., Jr., Otto, and Seger. 3,070,576.
Nelson, Lawrence B., and Sharpe. 3,060,136.
Oleck, Stephen M. 3,025,247.
Oleck, Stephen M., Rosinski, and Wantuck. 3,025,248.
Otto, Ferdinand P. 3,036,971.
Payne, Grady L 3,052,356.
Payne, John W. 3,060,117.
Plank, Charles J., and Rosinski. 3,067,127.
Plank, Charles J., Rosinski, and Smith. 3,015,620.
Ramella, Amilcare. 3,069,350.
Ramey, Henry J., Jr. 3,044,543.
Reid, Luther J. 3,015,368.
Reid, Luther J., Jr. 3,025,246.
Reid, Luther J., Jr. 3,067,002.

Socony Mobil Oil Co., Inc.: *See*—Continued
Richards, David C. 3,055,450.
Romberg, Francis M. 3,039,558.
Salinas, James W. 3,058,418.
Schick, John W. 3,028,436.
Schick, John W. 3,028,437.
Schreiner, Max, Jr., and Snyder. 3,019,180.
Schwartz, Albert B. 3,059,997.
Simpson, Edward B. 3,058,540.
Sloan, Raymond W. 3,027,649.
Stripling, Allen A. 3,022,488.
Summers, Gerald C. 3,034,593.
Travis, Bobby J. 3,065,527.
Tucker, Stanley. 3,028,331.
Turner, Stanley E., and Caldwell. 3,035,174.
Weisz, Paul B. 3,028,434.
Wise, John J. 3,060,249.
Soddy, Thomas C.: *See*—
Uphues, Gerard T., Orshansky, and Soddy. 3,024,872.
Soddy, Thomas C., to American Seal-Kap Corp. of Delaware. House car side door structure. 3,020,603, 2–13–62, Cl. 20—23.
Soddy, Thomas C., to American Seal-Kap Corp. of Delaware. Brake arrangement for railway vehicle truck. 3,027,976, 4–3–62, Cl. 188—59.
Soddy, Thomas C., to American Seal-Kap Corp. of Delaware. Wall and sliding door structure. 3,056,176, 10–2–62, Cl. 20—23.
Soder, Alfons, and W. Siedel, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of nitriles of tetracyclines. 3,030,377, 4–17–62, Cl. 260—313.
Söderbaum, Carl G., and I. Mitnitzky, to Telefonaktiebolaget L M Ericsson. Amplifying device. 3,022,379, 2–20–62, Cl. 179—1.
Soderberg, Emil O. Climber. 3,019,852, 2–6–62, Cl. 182—134.
Soderberg, Paul W., to Bruce Products Corp. Abrasive and polish compound. 3,042,509, 7–3–62, Cl. 51—305.
Soderberg, Victor L., to DK Mfg. Co. Devices for cleaning convoluted tubing. 3,062,227, 11–6–62, Cl. 134—168.
Soderhamn Machine Mfg. Co.: *See*—
Clark, James R. 3,061,207.
Dillingham, Frederick L. 3,024,537.
Dillingham, Frederick L. 3,028,891.
Soderhamn Verkstader AB: *See*—
Wexell, Harry W. 3,069,101.
Soderhamns Verkstader Aktiebolag: *See*—
Wexell, Harry W. 3,032,281.
Soderman, George W., to Western Electric Co., Inc. Contour grinder. 3,020,680, 2–13–62, Cl. 51—73.
Soderquist, Frederick J., H. D. Boyce, and J. L. Amos, to The Dow Chemical Co. Polymerization of mono- and polymethylstyrene. 3,058,968, 10–16–62, Cl. 260—93.5.
Soderquist, Leslie E., to The McNeil Machine & Engineering Co. Press for shaping and curing pneumatic tires. 3,030,658, 4–24–62, Cl. 18—2.
Söderqvist, Karl O., to Aktiebolaget Bofors. Device for feeding rounds of ammunition from a magazine to the ramming position of a gun. 3,021,762, 2–20–62, Cl. 89—33.
Sod-Master Corp.: *See*—
Ditter, Francis J. 3,034,586.
Soehl, John, and W. C. Huffman. Silage cutting and collecting apparatus. 3,017,045, 1–16–62, Cl. 214—17.
Soehngen, John W., to Celanese Corp. of America. Wet spinning apparatus and start up process. 3,047,906, 8–7–62, Cl. 18—8.
Soehngen, John W., to Celanese Corp. of America. Wet spun cellulose triacetate. 3,057,038, 10–9–62, Cl. 28—82.
Soehring, Klaus: *See*—
Endres, Gunther, Soehring, and Henn. 3,038,835.
Soehrman, Walter E. Power transmission. 3,046,814, 7–31–62, Cl. 74—689.
Soer, Clifford G., to American Motors Corp. Wheel suspension device. 3,057,640, 10–9–62, Cl. 280—96.2.
Soeterbroek, Johannes C.: *See*—
De Vries, Harmen, Schuhmacher, and Soeterbroek. 3,068,216.
Soffa, Albert: *See*—
Byeer, Manuel M., Hohenadel, and Soffa. 3,044,642.
Sofranko, Andrew J., and D. Dery, to Lombard Corp. Billet center punching apparatus. 3,059,509, 10–23–62, Cl. 78—9.
Sofrin, Thomas G.: *See*—
Tyler, John M., and Sofrin. 3,033,494.
Sogni, Giuseppe. Adjustable speed electric motor. 3,066,250, 11–27–62, Cl. 318—46.
Sogoian, Kaloust P. Door closer. 3,057,003, 10–9–62, Cl. 16—52.
Sogoian, Kaloust P. Hydraulic door closer. 3,057,004, 10–9–62, Cl. 16—52.
Sohacki, Steven. Telephone dialing system. 3,062,920, 11–6–62, Cl. 179—90.
Sohler, Hubert. Traveling suction cleaner for textile mills. 3,045,274, 7–24–62, Cl. 15—312.
Sohn, Allen O. Printing and die cutting machine. 3,065,691, 11–27–62, Cl. 101—227.
Sohn, John P., to Arvin Industries, Inc. Electric heater. 3,019,324, 1–30–62, Cl. 219—34.
Söhner, Gerhard, to Robert Bosch, G.m.b.H. Electronic ignition control system for internal combustion engines. 3,060,346, 10–23–62, Cl. 315—171.
Sohngen, Rudolf, to Bayer Aktiengesellschaft, Farbenfabriken. Welded constructions for rotationally symmetrical containers. 3,045,858, 7–24–62, Cl. 220—10.
Sohns, Carl B., to Square D Co. Control device. 3,023,780, 3–6–62, Cl. 137—623.
Sohosky, John J. Coin display device. 3,028,949, 4–10–62, Cl. 206—83.
Soileau, Trasimond A., Jr., to General Electric Co. Electric discharge device and methods of manufacture. 3,022,440, 2–20–62, Cl. 313—250.
Soja, Matthew, to Westinghouse Electric Corp. Combination television receiver and audio system. 3,018,330, 1–23–62, Cl. 178—5.8.
Sokaly, James A.: *See*—
Schirmer, Theresa. 3,035,865.
Sökjer-Petersen, Gunnar H., J. E. Johansson, and K.-E. Nyman. Augers for soil survey and a process of using said augers. 3,062,045, 11–6–62, Cl. 73—101.
Sokol, Benjamin, to Republic Aviation Corp. Radar reflector. 3,029,433, 4–10–62, Cl. 343—912.
Sokol, Benjamin, and L. R. Sparrow, to Republic Aviation Corp. Method of making reinforced synthetic resin forming tool. 3,035,310, 5–22–62, Cl. 18—59.
Sola, John B.: *See*—
Maximoff, Paul A., Krol, and Sola. 3,063,139.
Maximoff, Paul A., Krol, and Sola. 3,067,902.
Sola, Joseph G. Voltage regulating apparatus. 3,022,458, 2–20–62, Cl. 323—45.
Sola, Joseph G., to Basic Products Corp. Ballast for discharge devices. 3,059,143, 10–16–62, Cl. 315—138.
Solaini, Peter. Shaving cream applicator. 3,065,485, 11–27–62, Cl. 15—245.
Solar Aircraft Co.: *See*—
Long, John V., Stetson, and Furth. 3,041,206.
Stetson, Alvin R. 3,024,174.
Solar Light Mfg. Co.: *See*—
Lazerson, Herman M. 3,045,577.
Solari & C. S.p.A.: *See*—
Solari, Fermo, 3,035,406.
Solari, Fermo, to Solari & C. S.p.A. Calendar-clock. 3,035,406, 5–22–62, Cl. 58—6.
Solartron Electronic Group Ltd., The: *See*—
Bailey, Christopher E. G. 3,021,071.
Bailey, Christopher E. G. 3,041,516.
Bailey, Christopher E. G., and Norrie. 3,065,457.
Davies, David L. 3,024,426.
Soldano, Umberto: *See*—
Greco, Guido, Luciani, and Soldano. 3,067,177.
Soldinger, Oscar: *See*—
Sharfe, Louis, and Soldinger. 3,032,782.
Sole, Jean A.: *See*—
Epelboin, Andree P. and J. A., and Sole. 3,060,113.
Solem, Clarence E.: *See*—
Possis, Zinon C., Straub, Lobash, Johnson, and Solem. 3,063,313.
Solem, Wendell H. Drying system. 3,066,423, 12–4–62, Cl. 34—86.
Soler, Luis: *See*—
Friend, Harry J., and Soler. 3,024,952.
Soles, Otto H., and R. E. Kane, to Westinghouse Electric Corp. Compressed gas circuit interrupter. 3,023,291, 2–27–62, Cl. 200—148.
Solheim, Karsten. Golf club. 3,042,405, 7–3–62, Cl. 273—80.
Solid State Products, Inc.: *See*—
Dixon, Lloyd H., Jr. 3,020,454.
Dixon, Lloyd H., Jr. 3,039,175.
Solida Textil- und Netzwaren-Manufaktur Ruthard Dietze K.G.: *See*—
Dietze, Ruthard. 3,037,515.
Soling, Sam P.: *See*—
McGehee, Clyde, Newton, and Soling. 3,054,274.
Solinsky, Joseph, Electrical connectors. 3,041,572, 6–26–62, Cl. 339—92.
Solis Societa a Responsabilita Limitata: *See*—
Mazzi, Aramis. 3,067,599.
Solite Corp.: *See*—
Old, Albert F. 3,039,165.
Sollars, Herbert M. Animal fountain. 3,016,044, 1–9–62, Cl. 119—80.
Sollenberger, Lester D., to Nautec Corp. Indicating mechanism. 3,027,866, 4–3–62, Cl. 116—114.
Sollenberger, Lester D., and R. Sciacero, to Nautec Corp. Parking meter locking means. 3,056,544, 10–2–62, Cl. 232—16.
Solley, Douglas A., Jr.: *See*—
Janos, Alfred G., Solley, and Robbie. 3,034,313.
Solley, Douglas A., Jr., and K. A. Robbie, to General Electric Co. Multi-temperature refrigerator. 3,050,955, 8–28–62, Cl. 62—190.
Sollich, Robert. Circulation tempering of chocolate and similar substances. 3,021,779, 2–20–62, Cl. 99—236.
Sollin, Ingmar, to International Minerals & Chemical Corp. Ore beneficiation process. 3,032,196, 5–1–62, Cl. 209—166.
Sollinger, Ferdinand P., to Curtiss-Wright Corp. Exhaust nozzle actuator. 3,024,600, 3–13–62, Cl. 60—35.6.
Sollins, Stanley: *See*—
Greenfield, Anthony F. 3,034,521.
Sollman, Paul B.: *See*—
Dodson, Raymond M., and Sollman. 3,032,565.
Dodson, Raymond M., and Sollman. 3,055,919.

Solodar, Warren E. : *See*—
Green, Milton, and Solodar. 3,022,354.
Green, Miiton, and Solodar. 3,061,434.
Soloducha, Nicolas. Pressure leaching apparatus. 3,018,170, 1–23–62, Cl. 23—260.
Solomon, Allen L. : *See*—
Goldberg, Paul, and Solomon. 3,050,655.
Solomon, Bert P. Pleating device. 3,062,281, 11–6–62, Cl. 160—348.
Solomon, Frank : *See*—
Di Pasquale, Renato, and Solomon. 3,016,413.
Solomon, Frank, and K. N. Brown, to Yardney International Corp. Uni-potential silver electrode. 3,055,964, 9–25–62, Cl. 136—76.
Solomon, Frank, K. N. Brown, and R. Di Pasquale, to Yardney International Corp. Electrochemical electrode structure. 3,069,486, 12–18–62, Cl. 136—30.
Solomon, Iouel : *See*—
Abragam, Anatole, Combrisson, and Solomon. 3,049,661.
Abragam, Anatole, Combrisson, and Solomon. 3,049,662.
Solomon, Irvine J., M. J. Klein, and K. Hattori. Preparation of symmetrical dialkyldiboranes. 3,053,899, 9–11–62, Cl. 260—606.5.
Solomon, Jack L., to Varian Associates. Tunable high frequency tube. 3,059,139, 10–16–62, Cl. 315—5.22.
Solomon, James J. : *See*—
Ellis, Nicholas D., and Solomon. 3,032,185.
Solomon, Leroy E., to The Electric Storage Battery Co. Storage battery electrolyte. 3,067,275, 12–4–62, Cl. 136—153.
Solomon, Milton, to International Wheel Corp. Wheel with white side wall. 3,020,091, 2–6–62, Cl. 301—63.
Solomon, Nathan L. Hair curling device. 3,064,659, 11–20–62, Cl. 132—40.
Solomon, Paul W. : *See*—
Short, James N., and Solomon. 3,036,045.
Solomon, Paul W., to Phillips Petroleum Co. Reducing stickiness during the milling of a rubbery diene polymer by addition of a hydrocarbon acid ester of a phosphoric acid. 3,050,487, 8–21–62, Cl. 260—30.6.
Solomon, William : *See*—
O'Dell, James R., Solomon, and Holtz. 3,068,690.
Solovieff, George B. : *See*—
Russell, Fred J., and Solovieff. 3,019,633.
Russell, Fred J., and Solovieff. 3,048,996.
Russell, Fred J., and Solovieff. 3,068,682.
Solow, Benjamin : *See*—
Douglass, Walter H., and Solow. 3,064,070.
Solow, Benjamin, to International Resistance Co. Rheostat. 3,025,485, 3–13–62, Cl. 338—77.
Solow, Benjamin, and J. J. Bohrer, to International Resistance Co. Encapsulated electrical component. 3,070,647, 12–25–62, Cl. 174—52.
Solow, Sidney P., and R. H. Yamin. Method of making an identification leader for motion picture film. 3,022,165. 2–20–62 Cl. 96—43.
Soloway, Harold : *See*—
Shapiro, Seymour, Freedman, and Soloway. 3,051,705.
Shapiro, Seymour L., Freedman, and Soloway. 3,069,315.
Soloway, Samuel B. : *See*—
Morales, Juan G., and Soloway. 3,052,703.
Phillips, Donald D., and Soloway. 3,036,092.
Soloway, Sidney, to Schlumberger Well Surveying Corp. Radiation-responsive apparatus. 3,034,008, 5–8–62, Cl. 313—61.
Soltis, Joseph D. : *See*—
Luring, William S., Glaser, Foust, and Soltis. 3,060,921.
Soltman, Donald W. : *See*—
Saffer, John L., and Soltman. 3,031,225.
Soltz, Max, to William Gluckin & Co., Inc. Brassiere packaging and display mount. 3,029,938, 4–17–62, Cl. 206—79.
Solum, James R., to B & W Inc. Compression type stop collar. 3,040,405, 6–26–62, Cl. 24—263.
Solum, James R., and W. C. Hempel, to B and W Inc. Well scratcher. 3,070,168, 12–25–62, Cl. 166—173.
Solvay & Cie : *See*—
Deprez, Charles. 3,025,332.
De Prez, Charles. 3,059,034.
Deprez, Charles, Bulté, and Crabbe. 3,052,618.
Schoberle, Robert, and De Greef. 3,021,200.
Van Diest, Jacques. 3,051,635.
Viriot, Jacques, and Pagniez. 3,061,615.
Solvic Societe Anonyme : *See*—
De Coene, Robert. 3,025,285.
De Coene, Robert, and Mathieu. 3,041,324.
De Coene, Robert, and Mathieu. 3,067,185.
Solvik, Ragner S. : *See*—
Kirch, William, and Solvik. 3,070,589.
Solyst, Eric : *See*—
Misbin, Ted J., Tarbuck, and Solyst. 3,032,339.
Solyst, Erik R., to Burroughs Corp. Sheet feeder. 3,027,161. 3–27–62, Cl. 271—10.
Somar Industries, Inc. : *See*—
Plummer, Wade S. 3,059,400.
Somers, Raymond A., S. Kahn, and D. R. Locke, to Sperry Rand Corp. Electric dry shaver. 3,039,188, 6–19–62, Cl. 30—43.
Somerson, Norman L. : *See*—
Demain, Arnold L., and Somerson. 3,024,169.
Somerset Wire Co., Ltd. : *See*—
Hann, Kenneth G., and McFarlane. 3,068,353.
Somerville, George R., Jr., to Southwest Research Institute. Encapsulating apparatus. 3,015,128, 1–2–62, Cl. 18—2.6.
Somerville, James, to United States of America, Navy. Wing tip tow. 3,062,171, 11–6–62, Cl. 114—235.
Somerville, James, J. N. Yaccarino, and R. A. Starry, to United States of America, Navy. Practice depth charge dispenser. 3,021,759, 2–20–62, Cl. 89—1.5.
Somerville, Robert : *See*—
Hoff, Wally C., and Somerville. 3,064,567.
Somerville, Willard T., to International Flavors & Fragrances, Inc. Products of formaldehyde and myrcene and processes for making same. 3,030,384, 4–17–62, Cl. 260—345.1.
Somlyody, Arpad : *See*—
Glaser, David, and Somlyody. 3,031,594.
Somma Tool Co., Inc. : *See*—
Poorman, John E., and Kurtz. 3,062,080.
Sommer, Albert, to "Straba" Handels- Aktiengesellschaft. Method for the production of bituminous compositions. 3,021,566, 2–20–62, Cl. 18—47.5.
Sommer, Albert, to "Straba" Handels-Aktiengesellschaft. Bituminous surfaces. 3,044,373, 7–17–62, Cl. 94—23.
Sommer, Frank. Pushing and pulling devices. 3,069,761, 12–25–62, Cl. 29—252.
Sommer, Gerald. Turndown collar. 3,024,467, 3–13–62, Cl. 2—131.
Sommer, Gordon M., to U.S. Industries, Inc. Die clamp. 3,027,793, 4–3–62, Cl. 83—698.
Sommer, Gordon M., and V. J. Mankowsky, to U.S. Industries, Inc. Seals. 3,021,146, 2–13–62, Cl. 277—3.
Sommer, Harry J. : *See*—
Bradley, Theodore F., and Sommer. 3,015,635.
Sommer, Leo H., to Dow Corning Corp. Polymers of silacyclobutanes. 3,046,291, 7–24–62, Cl. 260—448.2.
Sommer, Leo H., to Dow Corning Corp. Silylpropyl silylbutanoates. 3,050,501, 8–21–62, Cl. 260—448.8.
Sommer, Leo H., and C. L. Frye, to Dow Corning Corp. Optically active organosilicon compounds. 3,024,262, 3–6–62, Cl. 260—448.2.
Sommer, Reinhold, to VEB Schlepperwerk Nordhausen. Transmission system. 3,025,711, 3–20–62, Cl. 74—342.
Sommer, Richard : *See*—
Fischer, Oskar, and Sommer. 3,068,773.
Greger, Paul, Kinder, and Sommer. 3,017,813.
Sommer, Richard, to Voigtlander A.G. Photographic camera provided with shutter and diaphragm. 3,019,716, 2–6–62, Cl. 95—64.
Sommer, Richard, to Voigtlander A.G. Photographic camera provided with means for adjustment of the light value. 3,039,376, 6–19–62, Cl. 95—64.
Sommer, Rudolf, and H. Muller, to Siemens & Halske Gesellschaft m.b.H. Multi-purpose electrode for electrochemical processes. 3,035,998, 5–22–62, Cl. 204—284.
Sommer, Siegfried : *See*—
Grundmann, Werner, Bestian, Bahr, and Sommer. 3,066,130.
Rust, Kurt, Junghanns, Sommer and Bier. 3,047,557.
Rust, Kurt K. G., Gumboldt, Horndler, Sommer, and Heitzer. 3,058,970.
Sommer, Siegried, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for obtaining a purified polyolefin from a polyolefin dispersion. 3,045,-067, 7–17–62, Cl. 260—93.7.
Sommer, Walter, to SKF Kugellagerfabriken Gesellschaft mit beschrankter Haftung. Anti-friction bearing arrangement for bottom rolls. 3,070,413, 12–25–62, Cl. 308—187.1.
Sommer, William F., and D. B. Jackson, to The National Cash Register Co. Printing control means for accounting machines. 3,060,846, 10–30–62, Cl. 101—93.
Sommerer, Erich. Device for the lifting of loads. 3,053,050, 9–11–62, Cl. 60—51.
Sommerer, Erich. Supporting structure for use in inspection pits or the like. 3,057,437, 10–9–62, Cl. 187—8.42.
Sommerfeld, Franz, and J. Luther, to Reifenhauser K.G. Apparatus for the continuous production of packaging. 3,056,339, 10–2–62, Cl. 93—82.
Sommerfield, Edward H., to International Business Machines Corp. High speed transistor switch. 3,050,636, 8–21–62, Cl. 307—88.5.
Sommers, Alexis, to El-Tronics, Inc. Fuse construction. 3,041,428, 6–26–62, Cl. 200—131.
Sommers, Alfred, to General Precision, Inc. Manganese-zinc ferrite and method of making. 3,020,236, 2–6–62, Cl. 252—62.5.
Sommers, David. Diffraction cameras. 3,070,694, 12–25–62, Cl. 250—51.5.
Sommerville, Anthony W. : *See*—
Nicklin, Thomas, Sommerville, Brunner, and Isherwood. 3,035,889.
Sommerville, Thos., Co. : *See*—
McKulla, George W., Jr. 3,047,986.
Somos, Istvan : *See*—
Hansen, Albert, Jr., Kelley, Somos, and Tobin. 3,070,739.
Somville, Charles A., to A.V.R., Achat, Ventes, Representations, Societe Anonyme. Device for assembling and/or fixing elements of metal frames. 3,018,861, 1–30–62, Cl. 189—36.
Somville, Charles A., to Achat, Ventes, Representations, Societe, Anonyme, "A.V.R." Fastening device for metal constructions. 3,031,049, 4–24–62, Cl. 189—78.
Sonatore, Anthony T., to Daystrom, Inc. Pivot base securing method and means. 3,068,413, 12–11–62, Cl. 324—155.

Soncini, William, to S.p.A. Meccanica Garelli. Two-stroke engines having automatic suction timing device. 3,016,050, 1–9–62, Cl. 123—73.

Sondheimer, Franz: *See*—
Ringold, Howard J., Sondheimer, and Rosenkranz. 3,032,552.
Ringold, Howard J., Sondheimer, Rosenkranz, Strok, and Djerassi. 3,065,226.

Sondheimer, Franz, and G. Rosenkranz, to Syntex Corp. Process for the preparation of $\Delta^{1,4}$-pregnadiene-3,20-dione and intermediates therefor. 3,055,915, 9–25–62, Cl. 260—397.3.

Sones, William L., and J. O. Burke, to General Motors Corp. Brushless generator rectifier assembly. 3,059,168, 10–16–62, Cl. 322—59.

Song, John, to American Cyanamid Co. Production of N,N′-bis(thiocarbamyl)-hydrazine from thiosemicarbazide. 3,033,901, 5–8–62, Cl. 260—552.

Song, John, R. L. Horton, P. T. McGregor, and F. X. Markley, to American Cyanamid Co. New derivatives of pyrrolopyridines and pyrroloquinolines and methods of preparing the same. 3,025,243, 3–6–62, Cl. 260—295.

Song, John, and F. X. Markkley, to American Cyanamid Co. 4-cyano-3-oxo-pyrrolidine carboxylates. 3,060,194, 10–23–62, Cl. 260—326.3.

Songer, Francis H. Spring actuated rolling exercise toy. 3,046,011, 7–24–62, Cl. 272—56.

Songer, Paul A.: *See*—
Pavlik, Charles J., and Songer. 3,043,612.

Soni, Louis: *See*—
Starkl, Anton A. 3,055,141.

Sonic Engineering Corp.: *See*—
Cottell, Eric C. 3,059,584.

Sonkin, Ben: *See*—
Kanner, Seymour, and Sonkin. 3,021,883.

Sonnanstine, Edgar H., Jr.: *See*—
Thomas, Edward R., Sonnanstine, and Carey. 3,047,227.

Sonneberg, Joachim, to Hildesheim Diessel Gebr. Apparatus for conveying and metering milk. 3,036,738, 5–29–62, Cl. 222—66.

Sonne, Frederick T., to Chicago Aerial Industries, Inc. Polar camera. 3,016,001, 1–9–62, Cl. 95—15.

Sonneborn Chemical and Refining Corp.: *See*—
Liberthson, Leo, and Zara. 3,053,674.

Sonneborn, Willi, to Felter & Guilleaume Carlswerk A.G. Carrier frequency communication system. 3,049,596, 8–14–62, Cl. 179—175.31.

Sonnefeld, Georg. Gas turbine system with feedback cycle. 3,037,345, 6–5–62, Cl. 60—35.6.

Sonneman Products, Inc.: *See*—
Gilmore, Dale T. 3,029,751.

Sonnenfeld, Richard J.: *See*—
Uraneck, Carl A., and Sonnenfeld. 3,070,583.

Sonnenschein, Abraham H.: *See*—
Jaffe, David L., and Sonnenschein. 3,060,427.

Sonni, Arthur W. Combination of clinical thermometer and magnifying case. 3,052,158, 9–4–62, Cl. 88—39.

Sonnier, Bruce C., to Continental Oil Co. Wire line fishing tool. 3,029,098 4–10–62, Cl. 294—86.

Sonnier, Rolfe, to Continental Oil Co. Aligning tool. 3,069,-762. 12–25–62, Cl. 29—271.

Sonnino, Mario, to American Cyanamid Co. Tow-processing apparatus. 3,027,740, 4–3–62, Cl. 68—5.

Sonnino, Mario, to American Cyanamid Co. Wet-spinning apparatus. 3,028,626, 10–10–62, Cl. 18—8.

Sonnino, Mario, to American Cyanamid Co. Apparatus for producing a crimped tow. 3,041,705, 7–3–62, Cl. 28—1.

Sonnino, Mario, to American Cyanamid Co. Method of processing a tow. 3,066,006, 11–27–62, Cl. 8—151.2.

Sonntag, Alfred, and A. E. Bowen, Jr., to The Alpha Molykote Corp. Lubricant testing machine. 3,028,746, 4–10–62, Cl. 73—10.

Sonobe, Shiro, O. Tominaga, and K. Nomura, to Nihon Denki Tokei Co., Ltd. Solar switch. 3,043,923, 7–10–62, Cl. 200—38.

Sonobond Corp.: *See*—
Jones, James B. 3,056,192.
Jones, James B., Elmore, and De Prisco. 3,052,020.
Molloy, Martin, and Shabad. 3,054,863.

Sonoco Products Co.: *See*—
Coker, Fizlee H., and Reaves. 3,066,539.
Dunlap, Charles K. 3,045,945.
Dunlap, Charles K., Jr., Gibson, McGee, and Sedberry. 3,064,870.
Durkin, Joseph A., and Fayne. 3,070,281.
Martin, Elbert H. 3,039,601.
Morris, Henry F. 3,033,489.

Sonotone Corp.: *See*—
Belove, Louis. 3,064,065.

Sontag, Harcourt C. Cabin pressure schedule deviation indicator. 3,049,925, 8–21–62, Cl. 73—407.

Sontheimer, Carl G., to Dictaphone Corp. Remote control system. 3,045,069, 7–17–62, Cl. 179—6.

Sontheimer, Carl G., to Trak Electronic Co., Inc. Controllable induction. 3,060,393, 10–23–62, Cl. 336—20.

Sony Corp.: *See*—
Ezaki, Reona, and Kurose. 3,033,714.
Fukui, Hatsuaki, and Tsujii. 3,061,743.
Iikura, Shigetsune. 3,050,270.
Iwama, Kazuo, and Ezaki. 3,054,033.
Sekine, Shigenobu, and Muramoto. 3,020,897.
Shimada, Satoshi. 3,070,657.
Tsukamoto, Tetsuo. 3,070,465.
Uemura, Saburo. 3,066,197.

Sony Kabushikihaisha (Sony Corp.): *See*—
Igarashi, Tadashi. 3,045,776.
Igarashi, Tadashi. 3,046,798.
Iikura, Shigetsune. 3,050,269.
Kishi, Kanesuke, Nakatsuru, and Kawakami. 3,053,339.

Soodnizin, Nicholas Y. Automatic stationary rotary tongs. 3,025,733, 3–20–62, Cl. 81—53.

Sookne, Arnold M., J. D. Galligan, H. R. Guest, and J. T. Adams, to Union Carbide Corp. Treatment of textile fabrics with 1,1,3-tris-(2,3-epoxyalkoxy)butanes. 3,024,135, 3–6–62, Cl. 117—139.4.

Sookne, Arnold M., H. R. Guest, and J. T. Adams, to Union Carbide Corp. Treatment of textile fabrics with methylglycidyl ethers. 3,026,216, 3–20–62, Cl. 117—139.4.

Soos, Steven W., to The Controllix Corp. Switch operating mechanism. 3,069,518, 12–18–62, Cl. 200—98.

Soper, Glenn T.: *See*—
Ensign, George G., Soper, and Lundahl. 3,026,734.
Ensign, George G., Soper, and Lundahl. 3,041,819.

Soper, La Vern G., and L. M. Harris, to National Presto Industries, Inc. Beverage maker. 3,022,411, 2–20–62, Cl. 219—4.

Soper, Quentin F., to Eli Lilly and Co. Herbicidal method. 3,063,822, 11–13–62, Cl. 71—2.3.

Soper, Ralph B., to Sylvania Electric Products Inc. Method and apparatus for treating bodies of semiconductor material. 3,051,363, 4–24–62, Cl. 156—17.

Sorba, Janine: *See*—
Paquot, Charles, Lefort, and Sorba. 3,020,320.

Sorbie, Thomas B.: *See*—
Early, Richard L., Lauck, Pigg, and Sorbie. 3,030,564.
Early, Richard L., and Sorbie. 3,025,447.
Early, Richard L., and Sorbie. 3,059,523.

Sorchy, Anthony J., to Manning, Maxwell & Moore, Inc. Drive released motor brake. 3,028,512, 4–3–62, Cl. 310—77.

Sorchy, Anthony J., to Manning, Maxwell & Moore, Inc. Motor brake. 3,032,667, 5–1–62, Cl. 310—77.

Sordoillett, Chantal: *See*—
Foufonus, Jean and C. 3,069,959.

Soreng, John E., to Indak Mfg. Corp. Pushbutton switch. 3,054,879, 9–18–62, Cl. 200—159.

Sorensen, Carl: *See*—
Porland, Kjeld, and Sorensen. 3,063,640.

Sorensen, David P.: *See*—
Davis, Horace R., Jr., and Sorensen. 3,043,879.

Sorensen, Egon, to Sunroc Corp. Bubbler relief mechanism. 3,033,466, 5–8–62, Cl. 239—32.

Sorensen, Egon, and J. G. Crost, to Sunroc Corp. Water cooling system. 3,069,872, 12–25–62, Cl. 62—391.

Sorensen, Harald M.: *See*—
Krabbe, Ulrik H., and Sorensen. 3,017,591.

Sörensen, Harry W. Pellet press. 3,016,026, 1–9–62, Cl. 107—1.

Sorensen, Knud B., and A. J. Bjerkan, to Deere & Co. Auxiliary sprocket carrying means for a planter. 3,022,-754, 2–27–62, Cl. 111—52.

Sorensen, Knud B., and A. J. Bjerkan, to Deere & Co. Depth regulating means for a furrow opener. 3,023,718, 3–6–62, Cl. 111—36.

Sorensen, Knud B., and A. J. Bjerkan, to Deere & Co. Adjusting means for a variable drive planter. 3,062,159, 11–6–62, Cl. 111—85.

Sorenson, Bill W., and C. Denhardt. Collapsible cradle for automatic washers. 3,022,995, 2–27–62, Cl. 269—55.

Sorenson, Gerald T., to Chain Belt Co. Flexible coupling for shafts. 3,063,261, 11–13–62, Cl. 64—11.

Sorenson, Howard R. Airplane wing adjustable mounting. 3,028,123, 4–3–62, Cl. 244—48.

Sorenson, Perc C.: *See*—
Lawrence, Harry J. 3,024,646.

Sorenson, Stanley E. Acoustical suspension system including acoustical pan. 3,049,204, 8–14–62, Cl. 189—85.

Sorenson, Wayne R.: *See*—
Kwolek, Stephanie L., Morgan, and Sorenson. 3,063,966.

Sorenson, Wesley T., to Carling Electric, Inc. Toggle switch. 3,031,547, 4–24–62, Cl. 200—67.

Sorg, Leonard V., to Standard Oil Co. Broad-range direct-reading polarograph. 3,067,384, 12–4–62, Cl. 324—31.

Sorgenti, Harold A., H. Nack, and G. F. Sachsel, to The Battelle Development Corp. Process for treating food. 3,035,918, 5–22–62, Cl. 99—1.

Sorger, Gunther U., and S. J. Raff, to Weinschel Engineering Co., Inc. Radio-frequency power bridge. 3,047,803, 7–31–62, Cl. 324—106.

Soriero, Frank J., Jr.: *See*—
Henry, Thomas R., and Soriero. 3,038,331.

Sorkin, Morris: *See*—
Auer, Frederick G., and Sorkin. 3,017,796.
Fischer, Paul E., Heatley, and Sorkin. 3,048,088.

Sorkin, Morris, to Champlain Co., Inc. Intermittent web feed mechanism providing low velocity feed prior to stoppage. 3,025,740, 3–20–62, Cl. 83—282.

Sorlie, George S. Iron holder. 3,027,129, 3–27–62, Cl. 248—117.7.

Sormani, Angelo: *See*—
Lazari, Fabrizio, and Sormani. 3,031,912.

Sornsen, Wallace V., to Paul E. Hawkinson Co. Pneumatic tire spreader. 3,043,565, 7–10–62, Cl. 254—50.4.

Soroban Engineering, Inc.: *See*—
Holmes, Thomas G. Re. 25,120.
MacNeill, John H. Re. 25,123.
MacNeill, John H. 3,057,214.
MacNeill, John H. 3,069,146.
MacNeill, John H., and White. 3,069,674.
Soroban, Inc.: *See*—
MacNeill, John H. 3,019,970.
Sorokin, Victor G.: *See*—
Winer, Bernard L., and Sorokin. 3,044,838.
Sorrell, Ray T., to United States of America, Navy. Projectile anchors and anchoring emplacing devices. 3,018,752, 1–30–62, Cl. 114—206.
Sorrells, Weldon B. Combination mop cart and mop sink. 3,045,252, 7–24–62, Cl. 4—167.
Sorsa, George: *See*—
Lawall, Adam, and Sorsa. 3,041,078.
Sorsa, George, and R. E. Curran, said Sorsa assor. to said Curran. Chuck mechanism for collets. 3,042,418, 7–3–62, Cl. 279—50.
Sorstokke, Harold: *See*—
Beck, Thomas M., and Sorstokke. 3,068,267.
Sortor, Charles H., to FMC Corp. Apparatus for locating leaks in well casings. 3,040,566, 6–26–62, Cl. 73—155.
Sortor, Charles H., to FMC Corp. Method and apparatus for installing well liner. 3,067,801, 12–11–62, Cl. 153—80.
Sorvoll, Ivan, Inc.: *See*—
Blum, Josef. 3,028,075.
Sosa, Joseph. Humidor. 3,023,064, 2–27–62, Cl. 312—31.
Sosis, Paul: *See*—
Wilbert, Godfrey, and Sosis. 3,028,429.
Sosnovsky, George, to Armour Research Foundation of Illinois Institute of Technology. Allylic esters and the production thereof. 3,047,603, 7–31–62, Cl. 260—448.2.
Soss, Charles J. Latch mechanism. 3,044,815, 7–17–62, Cl. 292—173.
Sothcott, John E. L.: *See*—
Halliday, William, Haslett, and Sothcott. 3,031,251.
Soubier, Leonard D., to Owens-Illinois Glass Co. Method of and apparatus for making plastic articles. 3,019,480, 2–6–62, Cl. 18—5.
Soubier, Leonard D., to Owens-Illinois Glass Co. Method and apparatus for forming hollow plastic articles. 3,032,810, 5–8–62, Cl. 18—5.
Soubier, Leonard D., deceased; O. M. Soubier, executrix. Method and apparatus for forming plastic articles. 3,048,-890, 8–14–62, Cl. 18—5.
Soubier, Leonard D., to Owens-Illinois Glass Co. Apparatus for producing charges of molten glass. 3,069,879, 12–25–62, Cl. 65—327.
Soubier, Olive M.: *See*—
Soubier, Leonard D. 3,048,890.
Soudan, Paul, and H. Mercier, to Compagnie de Produits Chimiques et Electrometallurgiques Pechiney. Heat exchanger. 3,053,512, 9–11–62, Cl. 257—154.
Soudure Electrique Autogene, la: *See*—
Krieweth, Wolfgang, and Dohm. 3,040,166.
Soudure Electrique Autogene, S.A., La: *See*—
Danhier, Francois G. 3,022,415.
Danhier, Francois G. 3,024,352.
Souffie, Robert D.: *See*—
Pariser, Rudolph, and Souffie. 3,042,652.
Soukup, Joseph A., Jr. Rope gripping device. 3,037,463, 6–5–62, Cl. 104—202.
Soule, Charles W. Dispensing and vending machine. 3,031,-055, 4–24–62, Cl. 194—10.
Soule, Robert M., Jr., to General Railway Signal Co. Means for lubricating curved railroad track rails. 3,059,724, 10–23–62, Cl. 184—3.
Soule, Robert M., Jr., and J. H. Auer, Jr., to General Railway Signal Co. Vehicle weighing system. 3,054,894, 9–18–62, Cl. 246—251.
Soulier, Eugene E. Fish scaling device. 3,016,564, 1–16–62, Cl. 7—5.
Soulsby, Norman H., to William Jones Ltd. Presses. 3,033,-105, 5–8–62, Cl. 100—214.
Soumerai, Henri: *See*—
Berger, Richard K., Nicholas, Pickle, Soumerai, and Van Newenhoven. 3,033,009.
Nicholas, Andrew J., and Soumerai. 3,040,969.
Soumerai, Henri, to Worthington Corp. Enclosed motor compressor unit. 3,051,373, 8–28–62, Cl. 230—206.
Soundscriber Corp., The: *See*—
Balmer, Donald F., and Lyon. 3,018,111.
Lyon, William H. 3,051,405.
Lyon, William H. 3,054,861.
Sourber, Earl Jacob. Hot air welding apparatus. 3,047,050, 7–31–62, Cl. 156—497.
Sousa, Anthony A., to Union Carbide Corp. Alkenyl pyridinium quaternary compounds as defoliants. 3,069,253, 12–18–62, Cl. 71—2.5.
South, Clarence R. and J. V. Wrench for fire sprinkler heads. 3,030,840, 4–24–62, Cl. 81—53.
South, John V.: *See*—
South, Clarence R. and J. V. 3,030,840.
South, Joseph A.: *See*—
Bond, Bethel, and South. 3,043,897.
South African Farm Implement Manufacturers Ltd.: *See*—
Ward, Walter H. 3,039,540.
South African Iron and Steel Industrial Corp., Ltd.: *See*—
Hoffman, Daniel J. N., and Beeton. 3,015,852.
Southard, Carl D., to International Business Machines Corp. Data input-output control mechanism. 3,029,412, 4–10–62, Cl. 340—172.5.
Southard, Carl D., to International Business Machines Corp. Digit extraction. 3,067,406, 12–4–62, Cl. 340—172.5.
Southard, Hubert H. Bag closure. 3,047,205, 7–31–62, Cl. 229—62.
South Bend Joy Mfg. Co., Inc.: *See*—
Couzens, Joseph J. 3,056,611.
Rutkowski, Roman V. 3,065,975.
South Bend Tackle Co., Inc.: *See*—
Macy, John M., and Larsson. 3,034,741.
South Chester Corp.: *See*—
Barry, John K. 3,039,802.
Bisbing, Robert H. 3,032,771.
Bisbing, Robert H., and Barry. 3,030,849.
Simi, Hendrick E. 3,060,538.
South Coast Fisheries, Inc.: *See*—
McConville, Thomas P. 3,024,114.
Southcomb, Harold J.: *See*—
Sutheim, George M., and Southcomb. 3,029,157.
Southeastern Metals Co.: *See*—
McMasters, Robert A. 3,021,010.
Southern Chemicals, Inc.: *See*—
Lousino, Elwin F., and Brown. 3,022,712.
Southern Clays, Inc.: *See*—
Gunn, Fred A., and Morris. 3,034,859.
Southern Equipment Co.: *See*—
Muckler, Frank, and Vandas. 3,051,582.
Southern Extrusions, Inc.: *See*—
Cary, Lloyd H. 3,026,702.
Southern Industries Corp.: *See*—
McFarland, William E., and Gambel. 3,063,158.
Southern Machinery Co.: *See*—
Kennedy, Harry R., Andersen, and Jones. 3,059,407.
Southern Metal Products Corp.: *See*—
Beasley, Thomas J., Jr., and Rodenbaugh. 3,064,306.
Southern Mill Equipment Corp.: *See*—
Hoefer, Karl E. 3,031,868.
Southern States Inc.: *See*—
Burdeshaw, Thomas A. 3,024,328.
Newsome, Joe B. 3,065,945.
Scott, Dale K., and Mercer. 3,028,991.
Southern Steel Co.: *See*—
Browning, James E., Anderson, and Youngblood. 3,053,352.
Southwell, E. H., Co.: *See*—
Southwell, Edward H., Emal, Cuhrt, and Wang. 3,029,-674.
Southwell, Edward H., E. A. Emal, L. C. Cuhrt, and A. F. Wang, to E. H. Southwell Co. Tube cutting machine. 3,029,674, 4–17–62, Cl. 82—71.
Southwest Research Institute: *See*—
Somerville, George R., Jr. 3,015,128.
Southwestern Cotton Oil Co.: *See*—
Smith, Donald W. 3,015,505.
Southwestern Engineering Co.: *See*—
McCausland, Robert J. 3,035,700.
Wright, Howard W., Jr., and Spencer. 3,029,946.
Southwestern Illinois Coal Corp.: *See*—
Bridges, Raymond H., and Alexander. 3,018,563.
Southwestern Industrial Electronics Co.: *See*—
Erath, Louis W. 3,023,368.
South Western Marine Factors Ltd.: *See*—
Jones, Leslie C. 3,063,404.
Southwestern Porcelain Steel Corp.: *See*—
Maroney, Clair F. 3,055,460.
Southwick, Harold. Dispensing apparatus. 3,028,014, 4–3–62, Cl. 211—49.
Southwood, Dewey R. Convertible amusement and recreation device. 3,031,688, 5–1–62, Cl. 5—120.
Southwood, Robert L.: *See*—
Kremen, Seymour S., and Southwood. 3,048,929.
Southworth Machine Co.: *See*—
Hawkes, Howard T., Ginn, and Sabasteanski. 3,017,041.
Woodward, Cyril H. T., and De Floria. 3,027,031.
Souza, David W., to Dymo Industries, Inc. Embossable plastic assembly. 3,036,945, 5–29–62, Cl. 154—53.5.
Sova, Clarence. Push-button-operated article holder. 3,039,-728, 6–19–62, Cl. 248—316.
Sovatkin, Edward J., to J. Sklar Mfg. Co. Surgical instrument. 3,038,467, 6–12–62, Cl. 128—17.
Sovia, Cedric C.: *See*—
Jordan, Wesley A., and Sovia. 3,041,187.
Sovia, Cedric C., and H. Papp, to General Mills, Inc. Apparatus for applying flock. 3,021,079, 2–13–62, Cl. 239—306.
Sovia, Cedric C., and H. Papp, to General Mills, Inc. Non-reusable receptacle. 3,063,600, 11–13–62, Cl. 222—193.
Sowards, Donald M., to E. I. du Pont de Nemours and Co. Aluminum pigments and fibers. 3,026,220, 3–20–62, Cl. 148—6.1.
Sowell, Ernest A.: *See*—
Curtin, Richard L., Sowell, and Scallet. 3,066,036.
Curtin, Richard L., Sowell, and Scallet. 3,066,037.
Sowinski, Francis A.: *See*—
Yale, Harry L., and Sowinski. 3,050,524.
Yale, Harry L., Sowinski, and Bernstein. 3,054,791.
Yale, Harry L., Sowinski, and Bernstein. 3,069,432.
Sowinski, Gerard T., to National Gypsum Co. Ceiling grid runner connection means. 3,059,735, 10–23–62, Cl. 189—36.

Söyland, Ingebret, and K. Arrangement in mobile excavators. 3,021,023, 2–13–62, Cl. 214—138.
Söyland, Kristian: *See*—
Söyland, Ingebret, and K. 3,021,023.
Spaa, Jacob H., and E. F. de Haan, to North American Philips Co., Inc. Apparatus for measuring the radioactivity of particles in a gas. 3,015,729, 1–2–62, Cl. 250—83.6.
Space Components Inc.: *See*—
Peay, Paul W., Reed, and Redding. 3,040,143.
Reed, Stanley E. and D. F., and Deady. 3,048,678.
Space-General Corp.: *See*—
Boensel, Donald W., and Brugma. 3,062,442.
Ghose, Rabindra N. 3,036,265.
Lehan, Frank W., and Brown. 3,063,048.
Lehan, Frank W., and Hughes. 3,036,210.
Lehan, Frank W., Sanders, and Newberry. 3,030,614.
Lehan, Frank W., Sanders, and Newberry. 3,063,017.
Newberry, Alvin W., and Lehan. 3,064,238.
Space Structures, Inc.: *See*—
Visser, Gerrit A., and Bollenbacher. 3,059,281.
Space Technology Laboratories, Inc.: *See*—
Bers, Naum S. 3,052,859.
Clark, George L., and Hickey. 3,027,515.
Crittenden, Eugene C., Jr., and Spriggs. 3,055,775.
Davies, Paul M. 3,056,041.
Dazey, Mitchell H. 3,052,819.
Gordon, John M. 3,061,803.
Josephson, Vernal. 3,042,828.
Kemp, Robert F. 3,044,045.
Muchmore, Robert B. 3,025,448.
Robinson, Wesley A. 3,046,410.
Robins, Paul C. 3,038,126.
Schmidlin, Fred W., Cooper, and Crittenden. 3,048,825.
Schmidlin, Frederick W. 3,024,140.
Space-Tone Electronics Corp.: *See*—
Miller, Theodore G., Jr. 3,059,986.
Spachner, Sheldon A.: *See*—
Metcalfe, Arthur G., and Spachner. 3,037,272.
Spacht, Ronald B., to The Goodyear Tire & Rubber Co. Oxidizable diene rubber containing phenolic substituted xylenes. 3,026,297, 3–20–62, Cl. 260—45.95.
Spacht, Ronald B., to The Goodyear Tire & Rubber Co. Antioxidants in gasoline fuels. 3,031,281, 4–24–62, Cl. 44—63.
Spacht, Ronald B., to The Goodyear Tire & Rubber Co. Stabilization of organic compositions with metal deactivators. 3,034,879, 5–15–62, Cl. 44—71.
Spacht, Ronald B., to The Goodyear Tire & Rubber Co. Diene rubber stabilized with alkylated phenols. 3,035,015, 5–15–62, Cl. 260—45.95.
Spacht, Ronald B., to The Goodyear Tire & Rubber Co. Rubbery polymer of a conjugated diene containing a novolac resin as an antioxidant. 3,062,761, 11–6–62. Cl. 260—3
Spack, Edward G.: *See*—
Gilman, George W., Pullis, and Spack. 3,069,501.
Spadaro, Giorgio I. Hanger bolt and resilient decorative abutment washer. 3,027,795, 4–3–62, Cl. 85—53.
Spademan, Charles F., to Toledo Scale Corp. Load measuring device. 3,057,419, 10–9–62, Cl. 177—12.
Spademan, Charles F., to Toledo Scale Corp. Weighing device. 3,066,752, 12–4–62, Cl. 177—211.
Spadolini, Pierluigi. Standardized knockdown furniture elements. 3,029,119, 4–10–62, Cl. 312—264.
Spaeth, Irvin J., to American Seal-Kap Corp. of Delaware. Railway brake beam support chair structure. 3,018,855,
Spaeth, Irvin J., to American Seal-Kap Corp. of Delaware. Railway brake beam connector, guide and support. 3,056,-474, 10–2–62, Cl. 188—210.
Spafford, Ralph W., ½ to B. B. Krost. Control apparatus for electrical systems. 3,039,029, 6–12–62, Cl. 318—17.
Spagna, Anthony and E. 3. Image reversing prism system. 3,039,351, 6–19–62. Cl. 88—1.
Spagna, Emanuel: *See*—
Spagna, Anthony and E. 3,039,351.
Spahn, Charles F., Jr.: *See*—
Keller, Arthur C., Peek, Schneier and Spahn. 3,042,773.
Spain, Frank N., and C. A. Van Pappelendam, to North American Aviation, Inc. High temperature sandwich structure. 3,067,494, 12–11–62, Cl. 29—183.
Spain, Horace H.: *See*—
Hilton, Albert R., Jr., and Spain. 3,070,169.
Williams, Robert E., and Spain. 3,047,067.
Spain, Virginia R. Collapsible ironing board. 3,064,373, 11–20–62, Cl. 38—115.
Spalding, A. G., & Bros., Inc.: *See*—
Latina, Harry B. 3,051,958.
Latina, Roland N. 3,055,409.
Wright, John H., and Ohlson. 3,069,806.
Spalding, Albert K. Method and means for producing hydraulic vibrations. 3,020,720, 2–13–62, Cl. 60—54.5.
Spalding, Dudley B. Introduction of vaporific liquid to a pressure exchanger. 3,022,050, 2–20–62, Cl. 257—267.
Spalding, Dudley B. Pressure exchangers. 3,019,962, 2–6–62, Cl. 230—69.
Spalding, James G., to Otis Engineering Corp. Circulating valve. 3,016,096, 1–9–62, Cl. 166—224.
1–30–62, Cl. 188—210.
Spalding, Robert V. Excavating machines. 3,049,823, 8–21–62, Cl. 37—190.
Spalding, Robert V. Excavating machines. 3,068,597, 12–18–62, Cl. 37—189.
Spalding, Thomas P. Centrifugal clutch. 3,058,561, 10–16–62, Cl. 192—105.
Spalek, Adolph T. Method of and apparatus for making orthographic projections. 3,044,177, 7–17–62, Cl. 33—189.
Spalla, Celestino: *See*—
Di Marco, Aurelio, Boretti, Barchielli, Spalla, Cattapan, and Bertazzoli. 3,026,316.
Spalla, Celestino, R. Modelli, and A. M. Amici, to Societa Farmaceutici Italia. Production of hydrocortisone by multiple fermentation. 3,030,278, 4–17–62, Cl. 195—51.
Span Tendons Ltd.: *See*—
Harris, Alan J. 3,060,640.
Spang & Co.: *See*—
Rath, Frank E. 3,049,305.
Spangler, Edwin L.: *See*—
Ebner, Walter P. 3,056,998.
Spangler, Fred W.: *See*—
Milton, Kirby M., and Spangler. 3,033,680.
Spanjer Bros., Inc.: *See*—
Marcin, Joseph J. 3,063,199.
Spanjer, David L.: *See*—
Hutchinson, Philip S., and Spanjer. 3,045,728.
Spanjer, David L., to Ibis Enterprises Ltd. Log barking machine. 3,066,712, 12–4–62, Cl. 144—208.
Spannagel, Hans, and N. von Ruecker, to Dr. Ing. h.c.F. Porsche, K.G. Disk brake. 3,051,271, 8–28–62, Cl. 188—
Spano, John F.: *See*—
Von Hofe, George W., and Spano. 3,057,266.
Spano, Levio: *See*—
Messina, Giuseppe, De Pisapia, Spano, and Condorelli. 3,056,829.
Spanski, Eugene V.: *See*—
Larke, Victor W., and Spanski. 3,048,236.
Spanur, Frank G.: *See*—
Carmichael, Robert, Spanur, and Klun. 3,069,489.
Spar, Donald: *See*—
Spar, Robert B. and D. 3,025,712.
Spar, Robert B. and D. Hydraulic control system. 3,025,-712, 3–20–62, Cl. 74—364.
Sparber, Frederick J., to United States of America, Atomic Energy Commission. Quick disconnect electrical connector. 3,049,690, 8–11–62, Cl. 339—45.
Spare-atron Ltd.: *See*—
Fefer, Gregory. 3,020,448.
Sparke, Maurice B.: *See*—
Pethrick, Samuel R., and Sparke. 3,065,180.
Sparkle-Top Corp.: *See*—
Pancrazi, Alex. 3,025,990.
Sparks Corp.: *See*—
Hartman, Maurice D., Jr., and Sparks. 3,054,503.
Sparks, George C.: *See*—
Hartman, Maurice D., Jr., and Sparks. 3,054,503.
Sparks, Neil R.: *See*—
Martner, Samuel T., and Sparks. 3,065,814.
Sparks, Rolla. Board puller. 3,035,815, 5–22–62, Cl. 254—129.
Sparks, Thomas, to Monroe Calculating Machine Co. Register selection control devices. 3,018,949, 1–30–62, Cl. 235—60.
Sparks, Virgil H.: *See*—
Trammell, Albert T., and Sparks. 3,026,095.
Sparks, William. Fish tape. 3,028,146, 4–3–62, Cl. 254—1343.
Sparks, William J.: *See*—
Gessler, Albert M., and Sparks. 3,070,557.
Gessler, Albert M., and Sparks. 3,070,568.
Gessler, Albert M., and Sparks. 3,070,570.
Snapp, John M., and Sparrow. 3,052,749.
Sparks, William J., to Jersey Production Research Co. Viscous water waterflooding. 3,053,765, 9–11–62, Cl. 252—8.55.
Sparkuhl, Konstantin, 50% to T. Gregory. Fluid flowmeters. 3,049,918, 8–21–62, Cl. 73—209.
Sparling, Walter N.: *See*—
Jones, John W., Messner, and Sparling. 3,039,037.
Sparr, Anders V. Milk pipe line. 3,016,877, 1–16–62, Cl. 119—14.03.
Sparrow, Lawrence R.: *See*—
Sokol, Benjamin, and Sparrow. 3,035,310.
Sparrow, Maxwell B.: *See*—
Felix, Joseph. 3,016,068.
Spars, Byron G., and P. P. McCall, to Esso Research and Engineering Co. Refining process for petroleum wax. 3,022,245, 2–20–62. Cl. 208—26.
Spartis, Louis T.: *See*—
Beahm, Horace C., and Spartis. 3,049,461.
Spase, Charles B., to Lipe-Rollway Corp. Method of making a thermal unit. 3,034,207, 5–15–62, Cl. 29—405.
Spaulding, Carl P., and W. S. Duncan, to Datex Corp. Shaft position encoder. 3,019,427, 1–30–62, Cl. 340—347.
Spaulding, Carl P., and E. L. Wheeler, to Datex Corp. Analog-to-digital converter. 3,054,996, 9–18–62, Cl. 340—347.
Spaulding, David C., and S. E. Horne, Jr., to The B. F. Goodrich Co. Cross-linked carboxylic polymers. 3,032,538, 5–1–62, Cl. 260—80.3.
Spaulding Fibre Co., Inc.: *See*—
Johnson, Clarence E., and Detert. 3,044,085.
Raphael, Thomas, Merrill, and Webb. 3,062,699.
Spaulding, Joseph H., G. M. Rodmaker, and W. R. Wedding, said Rodmaker and said Wedding assors. to said Spaulding. Fluorescent lighting fixture. 3,065,333, 11–20–62, Cl. 240—3.

Spaulding, William R. Thermometer spinner. 3,019,654, 2–6–62, Cl. 73—373.
Spaulding, Carl P.: *See*—
Bodnar, John W., Rosen, and Spaulding. 3,063,625.
Spaven, William J.: *See*—
Cutsogeorge, George A., Hebenstreit, and Spaven. 3,038,106.
Spaw, Carl S.: *See*—
Rogers, Eugene E., and Maskulka. 3,066,433.
Speaker, Richard L., to Speaker Sortation Systems, Inc. Conveyor system. 3,034,665, 5–15–62, Cl. 214—11.
Speaker Sortation Systems, Inc.: *See*—
Speaker, Richard L. 3,034,665.
Speakman Co.: *See*—
Fraser, James. Re. 25,173.
Fraser, James. 3,065,917.
Weese, Wilfred W. 3,032,058.
Spear, Gilmore M., to The Gleason Works. Alternate blade face mill cutter for spiral bevel and hypoid gears. 3,036,364, 5–29–62, Cl. 29—105.
Spear Products, Inc.: *See*—
Wolfe, Robert A. 3,034,794.
Spear, Robert B.: *See*—
Parent, Charles P., and Spear. 3,043,336.
Spear, Walter A., to Nutone, Inc. Ventilator for wall oven. 3,026,788, 3–27–62, Cl. 98—115.
Spearman, Charles K., to Lockheed Aircraft Corp. Yaw and thrust control. 3,026,068, 3–20–62, Cl. 244—52.
Spearman, Charles K., and E. G. Ward, to Lockheed Aircraft Corp. Control means for vehicle. 3,047,254, 7–31–62, Cl. 244—52.
Spears, Earl M., and W. Papsdorf, to Oxy-Gear Inc. Flow control unit for portable inhalators. 3,043,302, 7–10–62, Cl. 128—203.
Spears, Esten W., Jr.: *See*—
Egbert, William F., and Spears. 3,046,742.
Egbert, William F., and Spears. 3,062,006.
Spears, Robert M. Dual suction cup door check and holder. 3,042,958, 7–10–62, Cl. 16—84.
Specht, Charles A.: *See*—
Robinson, Alfred J., Specht, and Albert. 3,025,133.
Specht, John K.: *See*—
Alexander, Robert H., and Specht. 3,023,469.
Specht, Theodore R.: *See*—
Stein, Gerhard M., and Specht. 3,069,643.
Specht, Theodore R., to Westinghouse Electric Corp. Magnetic core structure. 3,064,220, 11–13–62, Cl. 336—217.
Special Effects, Inc.: *See*—
Lytle, Ardell L. 3,064,576.
Speciálný, Jan: *See*—
Delong, Armin, Drahoš, and Speciálný. 3,046,397.
Special Products Corp.: *See*—
Allen, Robert C., and Engle. 3,030,103.
Specialties Development Corp.: *See*—
Blake, Richard F. 3,048,793.
Blake, Richard F. 3,060,417.
Cutsogeorge, George A., Hebenstreit, and Spaven. 3,038,106.
Daley, Horace S. 3,038,627.
Dennis, David H. 3,055,191.
Dennis, David H. 3,055,192.
Dennis, David H. 3,063,260.
Dennis, David H., and Hebenstreit. 3,067,589.
Dennis, David H., Riull, and Schrank. 3,058,527.
Doublin, Ralph S., and Siman. 3,054,552.
Hebenstreit, Lester V., and Lushetsky. 3,054,587.
Herr, Warren E. 3,027,902.
Kirkup, Richard P. 3,054,586.
Mapes, Daniel, Orsini, and Heidersberger. 3,055,553.
Morgan, Carrel B., and Thomsen. 3,033,216.
Olandt, John W. 3,016,956.
Olandt, John W. 3,051,652.
Parsons, Floyd B. 3,067,762.
Parsons, Floyd B., and Then. 3,017,157.
Quail, Bernard W. Re. 25,251.
Quail, Bernard W., and Morgan. 3,017,907.
Rakowski, Alexander J., Rollins, and Zenobia. 3,016,506.
Rollins, James E. 3,068,438.
Rollins, James E., Rakowski, and Zenobia. 3,024,435.
Thomsen, William A. V., Morgan, and Quail. 3,016,920.
Wismar, William F. 3,040,970.
Specialties, Inc.: *See*—
Bucalo, Louis. 3,050,266.
Cahill, Daniel T. 3,025,072.
Fitch, Eugene K., Jr. 3,062,054.
Gray, Walter W. 3,040,569.
Schreck, Seymour. 3,041,952.
Ward, John W. 3,060,790.
Specialty Engineering & Electronics Co.: *See*—
Just, Richard, and Waly. 3,042,802.
Specialty Mfg. Co., The: *See*—
Anderson, Arthur A. 3,042,358.
Miller, Lloyd W. 3,037,308.
Moench, Frank F. 3,067,989.
Specialty Valves Ltd.: *See*—
Taggart, Reginald. 3,060,965.
Specker, Charles E. Device for holding and locking a plurality of printing types. 3,068,790, 12–18–62, Cl. 101—394.
Speckhardt, Georg, and K. Heumig. Process for the recovery of naphthalene. 3,067,269, 12–4–62, Cl. 260—674.
Spector, Clarence J., and R. M. Warner, Jr., to Bell Telephone Laboratories, Inc. Field effect avalanche transistor circuit with selective reverse biasing means. 3,062,972, 11–6–62, Cl. 307—88.5.
Spector, Dov. Anode mountings. 3,066,090, 11–27–62, Cl. 204—197.
Spector, Marshall L., to The M. W. Kellogg Co. Separation of acetylenic impurities using a cuprous and cupric chloride solution. 3,068,304, 12–11–62, Cl. 260—677.
Spector, Morris, to Advance Transformer Co. Circuit for starting and operating discharge tubes. 3,061,759, 10–30–62, Cl. 315—257.
Spedding, Frank H., and T. A. Butler, to United States of America, Atomic Energy Commission. Decontamination of uranium. 3,057,889, 5–15–62, Cl. 75—84.1.
Speed, David B., to E. I. du Pont de Nemours and Co. Free-flowing sodium silicate powder. 3,051,550, 8–28–62, Cl. 23—110.
Speed Developments Co. Ltd., Marine Works: *See*—
Everett, Ernest W. J., and Gilbert. 3,044,049.
Speed Flow, Inc.: *See*—
Lewis, Orrin E. 3,050,167.
Speed, Kenneth O., and L. A. Wilson. Adjustable measuring instrument. 3,016,618, 1–16–62, Cl. 33—143.
Speedco, Inc.: *See*—
Good, Paul F. 3,067,558.
Speedlap Corp.: *See*—
Boettcher, Stephen A., and Page. 3,040,770.
Speed-O-Print Business Machines: *See*—
Carlson, John W. 3,023,931.
Carlson, John W. 3,031,942.
Speed-Park, Inc.: *See*—
Alimanestiano, Mihai. 3,063,579.
Speedrack, Inc.: *See*—
Konstant, Anthony N. 3,028,976.
Speedry Chemical Products, Inc.: *See*—
Rosenthal, Sidney N. 3,020,578.
Rosenthal, Sidney N. 3,030,922.
Rosenthal, Sidney N. 3,035,542.
Rosenthal, Sidney N. 3,044,101.
Rosenthal, Sidney N. 3,048,879.
Rosenthal, Sidney N. 3,050,768.
Rosenthal, Sidney N. 3,051,980.
Rosenthal, Sidney N. 3,057,000.
Rosenthal, Sidney N. 3,069,767.
Speed Selector Inc.: *See*—
Aplin, Denis C. 3,064,486.
Spee-Flo Mfg. Corp., The: *See*—
Levey, Gustave S. 3,018,968.
Speer Carbon Co., Inc.: *See*—
McCarthy, William. 3,047,782.
Gamboldi, George R., and Nolan. 3,030,544.
Speer, Hugh B., Jr. Pneumatic tire assembly. 3,027,926, 4–3–62, Cl. 152—187.
Speer, John R., to Jones & Laughlin Steel Corp. Method and apparatus for measuring uniform elongation. 3,037,291, 6–5–62, Cl. 33—142.
Speer, Paul, C. Griggs, and D. J. McAvoy, to Armour and Co. Process for recovering fats and meat and bone scrap from inedible slaughterhouse materials. 3,046,286, 7–24–62, Cl. 260—412.6.
Spees, Arthur T. Disposable applicator. 3,053,385, 9–11–62, Cl. 206—63.2.
Speeter, Merrill E.: *See*—
Aspergren, Brooke D., Moffett, and Speeter. 3,022,314.
Speh, Herman A.: *See*—
Heddendorf, George B., and Speh. 3,018,887.
Spehr, Eugen: *See*—
Hany, Harald, Roosen, and Spehr. 3,051,089.
Speicher Brothers, Inc.: *See*—
Shimp, Nathan B. 3,049,816.
Speidel Corp.: *See*—
Maeder, Paul F. 3,026,731.
Speier, John L., to Dow Corning Corp. Method of curing condensed siloxane resins. 3,015,646, 1–2–62, Cl. 260—46.5.
Speight, Francis R.: *See*—
Lotarski, Stephen P., and Speight. 3,030,644.
Speir, Godfrey B.: *See*—
Doerries, George H., and Speir. 3,067,626.
Speiser, Ambros P., and H. Steinmann, to International Business Machines Corp. Pulse generator. 3,065,366, 11–20–62, Cl. 310—15.
Speiser, Bruno, to Elgen Mfg. Corp. Duct devices. Re. 25,153, 4–3–62, Cl. 138—39.
Speiser, Peter: *See*—
Hiltpold, Robert, Fisch, and Speiser. 3,055,433.
Speller, Jack B.: *See*—
Schaefer, Carl F., and Speller. 3,020,533.
Speller, Thomas H.: *See*—
Andrycha, Joseph J., and Speller. 3,069,938.
Spellman, James E., to E. I. du Pont de Nemours and Co. Composite spinneret plate unit. 3,060,500, 10–30–62, Cl. 18—8.
Spence, Fred E. Dental articulator. 3,052,030, 9–4–62, Cl. 32—32.
Spence, Marilyn Y.: *See*—
Younce, Charles P. 3,037,776.

Spence, Paulsen. Piloted self-operative hot water supply system. 3,067,946, 12–11–62, Cl. 236—80.
Spence, Peter, & Sons Ltd.: *See*—
Bonath, Klaus, Endter, De Rycke, Lewis, and Rippon. 3,069,335.
Torkar, Karl, and Bergmann. 3,038,784.
Worel, Heinrich, and Torkar. 3,027,231.
Spence, Robert A.: *See*—
Reid, John B., and Spence. 3,052,904.
Spence, Robert A., to North American Chemical Co. Apparatus for conditioning shoe filler compositions. 3,046,579, 7–31–62, Cl. 12—18.2.
Spence, Sydney P.: *See*—
Nicholson, Richard E., and Spence. 3,068,206.
Spence, Sydney P., A. R. Grover, F. P. Klosek, and R. E. Nicolson, to Union Carbide Corp. Process of producing polyglycidyl ethers of polyhydric phenols. 3,069,434, 12–18–62, Cl. 260—348.6.
Spencer, Alexander, to Gestetner Ltd. Photolithography. 3,053,658, 9–11–62, Cl. 96—33.
Spencer Chemical Co.: *See*—
Francis, William C. 3,016,376.
Francis, William C. 3,019,218.
Hopkins, Thomas R., and Francis. 3,016,287.
Hopkins, Thomas R., and Francis. 3,065,233.
Hopkins, Thomas R., Osborn, and Francis. 3,016,374.
Hopkins, Thomas R., and Steele. 3,016,375.
Scherrer, Joseph H. 3,024,231.
Stanford, Warren E., and Miller. 3,033,670.
Talbert, Norwood K. 3,062,634.
Spencer, Claude: *See*—
Walton, Edward, and Spencer. 3,049,551.
Spencer, Claude, and E. Walton, to Merck & Co., Inc. Process for the production of 3-amino-4,7-dihydroxycoumarin hydrochloride. 3,049,550, 8–14–62, Cl. 260—343.2.
Spencer, Corwin N., and W. H. Myers, to The Firestone Tire & Rubber Co. White sidewall tire. 3,041,674, 7–3–62, Cl. 18—61.
Spencer, Donald B., to Guy F. Atkinson Co. Boring machine. 3,034,164, 5–15–62, Cl. 15—104.1.
Spencer, Forrest R.: *See*—
Snyder, Herman B., and Spencer. 3,061,494.
Spencer, Frank R., to American Cyanamid Co. Method of preparing expandable resin comprising dissolving said resin in a miscible blend of organic liquids. 3,018,257, 1–23–62, Cl. 260—2.5.
Spencer, Francis T., to Pepperell Mfg. Co. Shed-proof napped blanket fabric. 3,037,262, 6–5–62, Cl. 28—80.
Spencer, Francis T., to Pepperell Mfg. Co. Apparatus for use in the fluid treatment of napped fabrics. 3,068,836, 12–18–62, Cl. 118—34.
Spencer, Frank R., to American Cyanamid Co. Preparation of shaped expanded thermoplastic polymer. 3,033,806, 5–8–62, Cl. 260—2.5.
Spencer, Frederick: *See*—
Brown, Thomas J. A., Spencer, and Grady. 3,028,053.
Spencer, Frederick, and R. W. Jones, to Henry Simon Ltd. and The Hoffmann Mfg. Co., Ltd. Roller journals for roller mills. 3,033,621, 5–8–62, Cl. 308—207.
Spencer, Glenn S., to The Bendix Corp. Semi-automatic two-speed hub gearing for velocipedes. 3,049,944, 8–21–62, Cl. 74—750.
Spencer, Gwynne W., II, to International Business Machines Corp. Automatic reference switching circuit. 3,054,909, 9–18–62, Cl. 307—88.5.
Spencer, Herman J. Valve. 3,027,875. 4–3–62, Cl. 121—13.
Spencer, Jack C., and R. Whitmore, to The Avon India Rubber Co. Ltd. Central buffing and draft gear. 3,031,089, 4–24–62, Cl. 213—43.
Spencer, Leland H., and K. D. Asher. 25% to S. Davis. Liquid measuring container. 3,045,495, 7–24–62, Cl. 73—427.
Spencer, Lloyd: *See*—
Wright, Howard W., Jr., and Spencer. 3,029,946.
Spencer, Richard W., to Sperry Rand Corp. Shifting register. 3,039,082, 6–12–62, Cl. 340—174.
Spencer, Robert B.: *See*—
Robinson, Gerald W., and Spencer. 3,066,757.
Spencer, Robert J.: *See*—
Papps, Joseph S., and Spencer. 3,026,621.
Spencer, Rolf E.: *See*—
Booth, Richard H., and Spencer. 3,033,458.
Spencer, Rolf E., to Electric & Musical Industries Ltd. Interpolating devices, especially for controlling automatic machine tools. 3,021,075, 2–13–62, Cl. 235—197.
Spencer, Rolf E., to Electric & Musical Industries Ltd. Automatic machine tools. 3,026,040, 3–20–62, Cl. 235—197.
Spencer, Roy E. Tape measure apparatus. 3,054,573, 9–18–62, Cl. 242—107.5.
Spencer Turbine Co., The: *See*—
Hunt, David H. 3,025,894.
Hunt, David M. 3,042,765.
Spencer, Walter B., W. R. Smith, and A. F. Cosman, to Cabot Corp. Process for producing high surface area metal oxides. 3,024,089, 3–6–62, Cl. 23—182.
Spencer, Warren H.: *See*—
Guderian, Walter L., Kanda, Schulz, and Spencer. 3,035,229.
Spencer, William O. Service rack. 3,031,184, 4–24–62, Cl. 269—177.
Spencer, William R. Magnetic rubber tobacco priming bands. 3,026,587, 3–27–62, Cl. 24—16.
Spencer, William R. Lamp assembly. 3,050,621, 8–21–62, Cl. 240—41.6.
Spendelow, Howard R., Jr., R. L. Folkman, and C. R. Allenbach, to Union Carbide Corp. Electrodes for melting refractory metals. 3,054,166, 9–18–62, Cl. 29—182.8.
Spengler, Herbert: *See*—
Gruneberg, Gerhard, Jung, Spengler, and Justi. 3,067,-216.
Vielstich, Wolf, Rottig, and Spengler. 3,019,088.
Spenke, Eberhard: *See*—
Herlet, Adolf, Spenke, and Emeis. 3,068,383.
Spenle, Erwin, to August Thyssen-Hutte Aktiengesellschaft. Apparatus for introducing wide metal strip into a pickling device. 3,060,945, 10–30–62, Cl. 134—63.
Spenninger, William R., to Bell Telephone Laboratories, Inc. Wire cutting pliers. 3,047,947, 8–7–62, Cl. 30—186.
Speranza, George P., to Jefferson Chemical Co., Inc. Method for producing 2-oxazolidones from epoxides and isocyanates. 3,020,262, 2–6–62, Cl. 260—47.
Speranza, George P., and M. Lichtenwalter, to Jefferson Chemical Co., Inc. Preparation of aminoethylpiperazine. 3,055,901, 9–25–62, Cl. 260—268.
Sperath, Ervin J. Humidifier. 3,016,892, 1–16–62, Cl. 126—113.
Sperazz, Charles M., Sr.: *See*—
Zurawinski, Mitchell, and Sperazz. 3,061,242.
Sperce1, Robert J.: *See*—
Gerth, Sol R., Katz, Adler, and Spercel. 3,026,104.
Spergel, Philip: *See*—
Warren, Richard F., and Spergel. 3,024,680.
Spergel, Philip, to Industrial Nucleonics Corp. Transportation lag compensator. 3,045,222, 7–17–62, Cl. 340—213.
Sperling, Arthur W.: *See*—
Mones, Arthur H., Mandel, and Sperling. 3,028,252.
Sperling, Gertrude R.: *See*—
Moss, Harry G. 3,053,537.
Sperling, Karl-Heinz, to Dierks & Sohne. Device for mixing and agglomerating pulverulent to granular material. 3,024,010, 3–6–62, Cl. 259—107.
Spero, Arthur F., to Industrial Nucleonics Corp. Measuring instrument. 3,021,483, 2–13–62, Cl. 324—131.
Spero, George B.: *See*—
Lincoln, Frank H., Jr., Spero, and Thompson. 3,020,297.
Lincoln, Frank H., Schneider, and Spero. 3,027,367.
Lincoln, Frank H., Schneider, and Spero. 3,030,360.
Spero, George B., and J. L. Thompson, to The Upjohn Co. 6α-meth-l-9α-fluoro-11-oxygenated progesterons. 3,045,031, 7–17–62, Cl. 260—397.3.
Spero, Robert E.: *See*—
Lanning, Walter C., and Spero. 3,034,053.
Speroni, Giovanni: *See*—
Perini, Mario, and Speroni. 3,047,459.
Speros, Carlene. Flower holder. 3,056,969, 10–9–62, Cl. 2—171.
Sperow, Henry L. Trailer for boats. 3,044,646, 7–17–62, Cl. 214—505.
Spewowitz, Seymour. Float switch. 3,045,084, 7–17–62, Cl. 200—84.
Sperr, Richard A.: *See*—
Plummer, Walter A., and Sperr. 3,058,867.
Sperry, Charles R.: *See*—
Gordon, William J. J., Lincoln, and Sperry. 3,035,299.
Sperry, Charles R., and S. Marden, to Arthur D. Little, Inc. Slide fastener. 3,026,589, 3–27–62, Cl. 24—205.1.
Sperry, Chester C.: *See*—
Johnson, Le Roy E., and Sperry. 3,043,176.
Sperry, Gene: *See*—
Richardson, William F., and Sperry. 3,038,426.
Sperry Gyroscope Co. Ltd., The: *See*—
Hallam, Thomas B., and Jones. 3,056,497.
Holiyday, James H. 3,055,519.
Hubbard, David W. 3,055,250.
Sedgfield, Hugh B. 3,055,223.
Summerlin, Frederick A., and Hadekel. 3,020,889.
Summerlin, Frederick A., and Roberts. 3,062,993.
Sweett, Henry C., Parsley, and Smith. 3,042,998.
Tancred, William L., and Bennett. 3,055,580.
Sperry, Herbert O., to Color Process Co., Inc. Display assembly. 3,050,887, 8–28–62, Cl. 40—124.1.
Sperry Products, Inc.: *See*—
Henry, Elliott A. 3,019,636.
Henry, Elliott A. 3,036,231.
Henry, Elliott A. 3,050,989.
Henry, Elliott A. 3,057,188.
Henry, Elliott A., and Laposka. 3,038,102.
Weighart, Fred G. 3,033,029.
Sperry Rand Corp.: *See*—
Andersen, Gordon W., Hill, and Martin. 3,026,494.
Anderson, Gordon R., and McCallion. 3,029,334.
Baker, Donald H., and Kesselring. 3,020,980.
Bargeski, Alexander J. 3,034,061.
Barker, Joseph W. 3,018,871.
Barney, Ray H., and Greenspan. 3,044,065.
Barrett, William G. 3,016,469.
Beach, Lennox F. 3,020,869.
Beach, Lennox F. 3,067,847.
Beiler, Aaron P. 3,069,172.
Bentley, George P., and Dueger. 3,020,769.
Berkowitz, Bernard. 3,049,708.
Blain, Albert. 3,034,093.
Blain, Albert, Welsh, Wilson, Meyer, and Roggenstein. 3,037,606.

Sperry Rand Corp.: *See*—Continued
Blumenthal, Edwin I., Eckert, and Welsh. 3,056,947.
Blumenthal, Edwin I., and Lopez. 3,031,136.
Bonn, Theodore, and Pryves. 3,047,231.
Bonn, Theodore H. 3,018,419.
Bonn, Theodore H., and Eckert. 3,041,468.
Breisford, John E. 3,050,176.
Campbell, Francis S. 3,058,698.
Campbell, Joseph K. 3,027,701.
Chamberlain, Arthur G., and Seymour. 3,048,252.
Cinnirella, Edward C. 3,023,779.
Clement, Warren F., and Rintoul. 3,023,625.
Clement, Warren F., Schaffer, and Zupanick. 3,033,042.
Clement, Warren F., and Zupanick. 3,023,574.
Colagrossi, Joseph, and Wines. 3,054,959.
Craddock, Reginald V. 3,034,096.
Cray, Seymour R. 3,041,582.
Cray, Seymour R. 3,041,583.
Cray, Seymour R., and Hendrickson. 3,041,466.
Crimmins, James W. 3,048,123.
D'Agostino, Jack V., and Rothenberg. 3,016,534.
Daniels, Howard L. 3,026,029.
Daniels, Howard L., Edstrom, and Herzfeld. 3,063,181.
Daniels, Howard L., and Fritze. 3,060,409.
Daubenberger, Orvie J. 3,059,488.
Davis, William W. 3,066,283.
Diamond, Herbert B. 3,028,760.
Downs, John W. 3,034,049.
Durbin, Edward. 3,044,064.
Durbin, Edward, and Drogin. 3,034,119.
Eberle, Edward E. 3,021,452.
Engelbrecht, John H., and Seiden. 3,033,171.
Erb, Martin S. 3,054,506.
Even-Tov, Ori. 3,019,870.
Falk, Robert A. 3,020,768.
Field, Richard H. 3,058,686.
Frank, Robert L. 3,016,533.
Fritze, Curtis W. 3,032,246.
Fujimoto, Akira, Nordahl, and Sandoval. 3,033,994.
Garbarini, Robert F., Wendt, and Rawitz. 3,037,289.
Garfinkel, Alan R., Sims, and Spinelli. 3,058,104.
Gates, Lauren W. 3,068,781.
Goldstein, Raymond. 3,052,855.
Gray, Harry J., Jr., and Nordahl. 3,039,009.
Gunter, Colie W. 3,030,262.
Haas, Isy. 3,047,819.
Ham, Charles M. 3,058,789.
Hawkins, Robert D. 3,049,344.
Hecht, Herbert. 3,021,097.
Hecht, Herbert. 3,058,700.
Hecht, Herbert, and Kaufman. 3,070,333.
Heitshu, Daniel C. 3,055,759.
Heitshu, Daniel C. 3,065,033.
Hess, John J., Jr. 3,070,332.
Hill, John L., and Engstrom. 3,064,242.
Hobbs, William, Jr. 3,039,607.
Hobbs, William, Jr. 3,040,873.
Hutchinson, Irving N. 3,043,541.
Israelson, Evert G. 3,048,255.
Itzkan, Irving, and McIsaac. 3,024,384.
Jahn, Dale M. 3,021,067.
Johnson, Carl A. 3,042,813.
Johnson, Wesley R., and Larson. 3,023,279.
Joline, Everett S. 3,016,048.
Joline, Everett S. 3,020,764.
Joline, Everett S. 3,049,007.
Kestenbaum, William W. 3,021,487.
King, Gordon van B. 3,039,080.
Klima, Stanley J., and Niechniedowicz. 3,049,464.
Kliman, Merwin, and Kass. 3,021,518.
Kline, Charles M. 3,031,064.
Kline, Charles M., and Hobbs. 3,034,667.
Kretzing, John C. 3,029,395.
Lanning, Walter C. 3,024,418.
Lanning, Walter C., and Spero. 3,034,053.
Leslie, Richard E., and Greenspan. 3,029,392.
Letson Richard A. 3,059,881.
Logie, Russell M. 3,057,548.
Lorenz, Ray. 3,042,812.
Lustig, Howard E. 3,029,017.
Mason, Harry L. 3,061,188.
Match, Marvin J., and Thomson. 3,052,427.
McCarty, Horace G., and Hale. 3,036,420.
McCarty, Horace G., and Smith. 3,040,509.
McDuffie, James W. 3,036,514.
McDuffie, James W. 3,059,490.
McDuffie, James W., and Nolt. 3,030,877.
McDuffie, James W., and Nolt. 3,044,390.
McDuffie, James W., and Nolt. 3,068,784.
Meyer, Bruce L. 3,068,416.
Miller, Harry, and Jude. 3,023,616.
Miller, Lee S. 3,029,431.
Mitchell, Earl N. 3,039,891.
Moe, Walter J., Smith, Miller, and Cray. 3,039,688.
Monsees, Claude E., and Petrea. 3,023,823.
Morgan, William E., Jr. 3,021,424.
Nelson, Kay F, Romney, and Slifka. 3,029,321.
Nolt, Edwin B. 3,022,622.
Nolt, Edwin B. 3,036,515.
Nolt, Edwin B. 3,036,543.
Nolt, Edwin B. 3,059,569.

Sperry Rand Corp.: *See*—Continued
Nolt, Edwin B., and McDuffie. 3,027,825.
Nolt, Edwin B., and McDuffie. 3,040,508.
Norman, Robert H. 3,043,966.
Morris, John C. 3,048,254.
Osder, Stephen S. 3,038,156.
Osder, Stephen S. 3,058,699.
Owen, Archibald D., and Lassetter. 3,049,705.
Paige, Walter G. 3,048,246.
Pellett, Allwin W. 3,044,391.
Pellett, Allwin W. 3,054,343.
Perry, Edward G. 3,020,800.
Perry, Edward G., Jr., and Philipson. 3,064,560.
Pohm, Arthur V. 3,065,105.
Pohm, Arthur V. 3,070,783.
Pohm, Arthur V., Mitchell, and Rossing. 3,015,807.
Potter, Francis M. 3,024,451.
Procter, Edward C. 3,044,242.
Procter, Edward C. 3,054,299.
Reitman, Lester J. 3,028,580.
Rider, Paul Z. 3,038,023.
Rocks, Eugene S. 3,052,129.
Roggenstein, Edwin O. 3,047,121.
Rubens, Sidney M., and Rossing. 3,030,612.
Schreitmueller, Rudolph T. 3,049,702.
Schroeder, George F. 3,058,043.
Scott, John E. 3,043,511.
Searles, William G. 3,030,876.
Searles, William G. 3,032,193.
Seymour, Raymond E. 3,027,937.
Seymour, Raymond E. 3,037,694.
Seymour, Raymond E., and Haraske. 3,045,799.
Sferrazza, Peter J. 3,018,454.
Shekels, Howard D. 3,043,510.
Shepley, John H. 3,028,117.
Shepley, John H. 3,044,552.
Silver, Edward A. 3,028,056.
Skidmore, Donald M. 3,016,530.
Snodgrass, Reuben P. 3,033,035.
Somers, Raymond A., Kahn, and Locke. 3,039,188.
Spencer, Richard W. 3,030,082.
Steagall, William F. 3,022,067.
Tarbox, John P., and Hollyday. 3,059,755.
Tava, Alben J., Adams, and Annunziato. 3,059,229.
Thompson, William J. 3,033,954.
Thornton, James E., and Cray. 3,035,182.
Tomiyasu, Kiyo. 3,034,076.
Tomiyasu, Kiyo, and Frost. 3,016,531.
Tower, Walter R., Strauss, and Tereszkiewicz. 3,034,117.
Treffeisen, Donal R. 3,037,725.
Tribken, Everett R. 3,058,697.
Vutz, Wilhelm, and Mittenbergs. 3,030,875.
Wadey, Walter G. 3,034,628.
Wadey, Walter G. 3,059,842.
Wallin, Robert E., and Blanshine. 3,059,383.
Walter, Oscar, and Steeves. 3,021,935.
Wellman, Francis C. 3,021,431.
Welsh, Herbert F., Appleton, and Silverberg. 3,021,512.
West, James R. 3,022,882.
Westerback, Ivar S. 3,052,122.
Wheeler, Lisle L., and Garbarini. 3,033,084.
Wing, Willis G. 3,058,359.
Winters, Berl C. 3,058,210.
Worden, Dale S., and Noker. 3,024,001.
Wyle, Henry. 3,061,672.
Zinke, Robert L. 3,049,672.
Zinke, Robert L. 3,049,676.

Sperry Rand Corp., Ford Instrument Co. Division: *See*—
Bomzer, Herbert W. 3,024,696.
Buckley, Charles W., and Rappaport. 3,026,150.
Crooke, Raymond E. 3,030,017.
Crowther, George A., Brown, and Hampton. 3,064,884.
D'Amico, Salvatore P. 3,024,996.
Groudan, Alan, Wirfel, Lustig, and Dessauer. 3,040,259.
Gucker, George C., Hardigan, Xenakis, and Quinn. 3,033,462.
Kalienberg, John, and Segerdahl. 3,029,645.
McKeown, Patrick J., and Frann. 3,022,008.
Merl, Kurt, and Setrin. 3,025,508.
Mernyk, Edwin H. 3,051,009.
Newell, William H. 3,049,294.
Rabin, Richard, Oken, and Slavin. 3,023,959.
Sarzin, Julius L., Teltscher, Steinberg, and Weisman. 3,025,470.
Teltscher, Erwin S., and Valavanis. 3,028,509.

Sperry Rand Corp. (Sperry Gyroscope Co. Division): *See*—
Henry, Everett A., and Lloyd. 3,052,428.

Sperry Sun Well Surveying Co.: *See*—
Kielman, Fred S., Jr. 3,016,621.
Morris, Marion H., and Williston. 3,023,512.

Sperti, George S., and W. J. Lommel, to Institutum Divi Thomae Foundation. High pressure mercury vapor arc lamp. 3,052,815, 9–4–62, Cl. 315—49.

Sperzel, Peter J. Pre-set sustaining hinge for toilet seats. 3,040,339, 6–26–62, Cl. 4—240.

Spes, Hellmuth: *See*—
Altenschopfer, Theodor, Enk, Knorr, and Spes. 3,043,862.
Enk, Eduard, Knorr, and Spes. 3,049,560.
Enk, Eduard, and Spes. 3,057,912.

Spets, Herbert A. Fishhook setting device. 3,060,615, 10–30–62, Cl. 43—15

Spetzler, August L., and J. A. Richards, to General Time Corp. Poising machine for balance wheels. 3,020,682, 2–13–62, Cl. 51—145.

Spevacek, Charles A., to The Cuneo Press, Inc. Printing ink and method of multi-color printing. 3,031,317, 4–24–62, Cl. 106—23.

Spex Industries, Inc.: *See*—
Landon, Donald O. 3,041,920.

Speyer, Nico B.: *See*—
Houben, Jan A., Van Meyl, and Speyer. 3,043,722.

Speziale, Angelo J., to Monsanto Chemical Co. Process for producing dialkyl (carbamoylmethyl) phosphonates. 3,066,-140, 11–27–62, Cl. 260—247.7.

Spiazzi, Ivo, to Fabbrica Italiana Macchine Aziendali. Settable type wheel printing mechanism. 3,049,075, 8–14–62, Cl. 101—93.

Spicacci, Attilio R. Apparatus for manufacturing bearing races and the like. 3,031,808, 5–1–62, Cl. 51—237.

Spicacci, Attilio R. Method and apparatus for describing circular arcs. 3,045,350, 7–24–62, Cl. 33—27.

Spicer, Daniel S., E. V. C. Smith, and B. E. Sanders, to Merck & Co., Inc. Method of producing purified properdin. 3,038,-838, 6–12–62, Cl. 167—74.

Spicer, Hugh C., and R. F. Hammond, to General Electric Co. Electric discharge device and method of making. 3,041,126, 6–26–62, Cl. 316—9.

Spicer, John J., Jr., to Novo Industrial Corp. Safety means for control circuits for vehicle automatic transmissions. 3,028,926, 4–10–62, Cl. 180—82.

Spickelmier, Carl F.: *See*—
Carper, Harold R. 3,063,202.

Spickett, Robert G. W.: *See*—
Ganellin, Charon R., and Spickett. 3,067,204.

Spickelmier, Betty S.: *See*—
Carper, Harold R. 3,063,202.

Spidy, Alexander R., and J. Silverstone, to The Walter Kidde Co. Ltd. and P. Frankenstein & Sons (Manchester) Ltd. Gas release devices. 3,048,303, 8–7–62, Cl. 222—5.

Spiece, Stanley J.: *See*—
Schultz, Blaine H., Spiece, and Pirhofer. 3,062,989.

Spiece, Stanley J., to McGraw-Edison Co. Condenser bushing. 3,055,968, 9–25–62, Cl. 174—31.

Spiegehalter, William G., to General Electric Co. Vent and exhaust arrangement for air conditioning unit. 3,021,696, 2–20–62, Cl. 62—429.

Spiegel, Allen J.: *See*—
Noseworthy, Melvin M., and Spiegel. 3,026,248.

Spiegel, Allen J., to Chas. Pfizer & Co., Inc. Stable aqueous streptomycin penicillin composition. 3,062,718, 11–6–62, Cl. 167—65.

Spiegel, Julian F., to Kingsbury Machine Works, Inc. Kingsbury type leveling plate thrust bearing. 3,056,635, 10–2–62, Cl. 308—160.

Spiegel, Peter. Internal combustion engine exhaust silencers. 3,044,571, 7–17–62, Cl. 181—51.

Spiegel, Sigmund: *See*—
Blavier, Paul. 3,063,166.

Spiegelberg, Hans: *See*—
Doebel, Karl, Rey-Bellet, Schläpfer, and Spiegelberg. 3,067,209.

Spiegelberg, Hans, and B. P. Vaterlaus, to Hoffmann-La Roche Inc. Reduction of diphenimide. 3,017,337, 1–16–62, Cl. 204—75.

Spiegler, Louis, to E. I. du Pont de Nemours and Co. Fluorine-containing waxes and process for preparing them. 3,069,280, 12–18–62, Cl. 106—271.

Spiel, Sidney: *See*—
Barnett, Irvin, and Speil. 3,055,831.

Spielberg, Arnold M., and J. F. Page, to Radio Corp. of America. Information transferring system. 3,024,445, 3–6–62, Cl. 340—172.5.

Spielberger, Seymour C.: *See*—
Fasenau, Frederick H., and Spielberger. 3,019,404.

Spieles, Robert L., to General Motors Corp. Dielectric embossing. 3,052,587, 9–4–62, Cl. 156—220.

Spieles, Robert L., to General Motors Corp. Dielectric process and apparatus for forming materials. 3,053,960, 9–11–62, Cl. 219—10.53.

Spielman, Albert, to Sanjo Utility Mfg. Co., Inc. Garment hanger. 3,032,273, 5–1–62, Cl. 239—57.

Spielman, James F., to Aerotec Industries, Inc. Aircraft seats and aircraft seating. 3,019,050, 1–30–62, Cl. 297—217.

Spielman, James F., to Aerotec Industries, Inc. Energy-absorbing means. 3,059,966, 10–23–62, Cl. 297—216.

Spielman, Lyle S.: *See*—
Keating, James P., and Spielman. 3,064,720.
Skerkoske, Eugene J., and Spielman. 3,044,754.

Spielman, Maurice: *See*—
Hirth, Leo J., Spielman, and Landgren. 3,069,480.

Spielman, Warren L. Can opener. 3,018,549, 1–30–62, Cl. 30—4.

Spierckel, Armand J. M. Semi-automatic lubricating device. 3,062,321, 11–6–62, Cl. 184—40.

Spierer, Edward D.: *See*—
Callan, Joseph M., and Spierer. 3,025,460.

Spies, Hecker & Co.: *See*—
Jaffe, Fritz, and Kaesmacher. 3,053,690.

Spiess, C. F., & Sohn Chemische Fabrik: *See*—
Knoevenagel, Kurt. 3,027,364.

Spiess, Georg. Sheet feed apparatus. 3,048,391, 8–7–62, Cl. 271—26.

Spiess, Georg. Pneumatic device for separating the uppermost sheet from a pile in sheet feeding apparatus. 3,048,-392, 8–7–62, Cl. 271—27.

Spiess, Hans, to Oerlikon Engineering Co. Oil seal. 3,033,-577, 5–8–62, Cl. 277—3.

Spiess, Newton E., Jr., and N. E. Sullivan, to National Dairy Products Corp. Powder agglomerating method and apparatus. 3,042,526, 7–3–62, Cl. 99—56.

Spiessl, Ewald: *See*—
Gebele, Kurt, and Spiessl. 3,044,382.

Spieth, Ernst K. Target conveying device. 3,020,047, 2–6–62, Cl. 273—105.6.

Spietz, Frederick C., to Chrysler Corp. Belt tightener. 3,018,667, 1–30–62, Cl. 74—242.9.

Spigner, W. T.: *See*—
Smith, Evander A. 3,049,160.

Spikes, Richard B. Automatic safety brake system. 3,015,522, 1–2–62, Cl. 303—9.

Spillane, Leo J.: *See*—
Franz, Raymond A. 3,057,705.
Franz, Raymond A., and Spillane. 3,057,704.

Spillar, Rudolph, to Western Electric Co., Inc. Universal circuit board. 3,023,498, 2–13–62, Cl. 339—18.

Spiller, Charles A., Jr., and R. V. Malo, to Standard Oil Co. Process for separation of phthalic acids. 3,029,278, 4–10–62, Cl. 260—524.

Spillios, Themus A. Apparatus for handling strip or bar materials. 3,043,452, 7–10–62, Cl. 214—16.4.

Spillman, Kenneth W., to The Parker Pen Co. Retractable point writing instrument. 3,033,167, 5–8–62, Cl. 120—42.03

Spillmann, Werner, to Escher Wyss, Aktiengesellschaft. Heat transfer system for nuclear power plant. 3,043,763, 7–10–62, Cl. 204—193.2.

Spilman, Raymond C. A. Jerabek, and R. T. Jackson, to Reliance Mfg. Co. Packages for merchandising garments or the like articles. 3,066,792, 12–4–62, Cl. 206—45.33.

Spina, John. Safety parachute opening device. 3,052,433, 9–4–62, Cl. 244—149.

Spindel-Motoren- und Maschinenfabrik A.G.: *See*—
Beerli, Karl. 3,049,860.

Spindle Specialty Co.: *See*—
Lindsay, Maurice E. 3,018,600.
Lindsay, Maurice E. 3,040,506.

Spindler, Bernard A. Dog house. 3,026,844, 3–27–62, Cl. 119—19.

Spindler, John E., to C. van der Lely, N.V. Rake wheel provided at its circumference with resilient tines. 3,069,834. 12–25–62, Cl. 56—377.

Spinelli, Biagio A.: *See*—
Garfinkel, Alan R., Sims, and Spinelli. 3,058,104.

Spinelli, Frank P., and R. Castenschiold, to Automatic Switch Co. Engine starting control system. 3,047,725, 7–31–62, Cl. 290—36.

Spingies, Erwin, and H. Rose, to Brunsviga Maschinenwerke Aktiengesellschaft. Apparatus for the reception, storage, and representation of positive and negative numerical values, especially for use with standard office machines. 3,019,980, 2–6–62, Cl. 235—172.

Spingies, Erwin, and H. Rose, to Brunsviga Maschinenwerke Aktiengesellschaft. Arrangement for electrically dividing up sums of money and the like according to species. 3,027,-074, 3–27–62, Cl. 235—92.

Spingies, Erwin, and H. Rose. Electronic computer for addition, subtraction, multiplication and division in the decimal system. 3,031,139, 4–24–62, Cl. 235—160.

Spingies, Erwin, and H. Rose, to Olympia Werke Aktiengesellschaft. Apparatus for the remote control of calculating machines. 3,044,700, 7–17–62, Cl. 235—146.

Spingies, Erwin, and H. Rose. Arrangement for determining tabular values. 3,058,094, 10–9–62, Cl. 340—147.

Spink, Donald R.: *See*—
McCord, Andrew T., and Spink. 3,032,388.

Spinks, Charles W., to Diamond National Corp. Carton diverting mechanism. 3,061,068, 10–30–62, Cl. 198—31.

Spinks, Charles W., and D. A. Hunter, to Diamond National Corp. Carton diverting mechanism. 3,070,215, 12–25–62, Cl. 198—102.

Spinney, Clayton S., to The Morley Co. Mattress handle press. 3,064,264, 11–20–62, Cl. 1—318.

Spinrad, Bernard I., H. A. Sandmeier, and F. H. Martens, to United States of America, Atomic Energy Commission. Fuel assay reactor. 3,070,538, 12–25–62 Cl. 204—193.2.

Spintex Spinnerei-Maschinenbau, Stiehl, Fromm & Co.: *See*—
Schöller, Gottfried, and Ellinger. 3,056,252.

Spiotta, Roberto. Air delivery units particularly for underwater compressed air respirators. 3,040,762, 6–26–62, Cl. 137—63.

Spira, Joel S. Dimming device. 3,032,688, 5–1–62, Cl. 315—272.

Spira, Joel S. Electric rectifying power control and lamp dimming system. 3,061,744, 10–30–62, Cl. 307—146.

Spira-Klein, Mrs. Marie-Louise: *See*—
Mieville, André. 3,051,025.

Spiralit, Societe: *See*—
Grieten, Gustave. 3,070,054.

Spires, Krell E., Jr.: *See*—
Barbulesco, Daniel J., McCormick, and Spires. 3,018,-649.

Spiri, Willy H., to Abegg & Reinhold Co. Roller drive kelly bushing. 3,035,424, 5–22–62, Cl. 64—23.7.

Spiro, George: *See*—
Garrison, Richard J., Henches, and Spiro. 3,030,525.

Spirotechnique, La : *See*—
Gagnan, Emile, and Cousteau. 3,028,860.
Spisak, Edward G., to Gar Wood Industries, Inc. Wheel trim. 3,037,817, 6–5–62, Cl. 301—37.
Spiselman, Joseph W., and W. F. Pawlowski. Sectional flooring. 3,025,934, 3–20–62, Cl. 189—34.
Spitfire Tool and Machine Co., Inc. : *See*—
Day, Lawrence, Dobrick, and Kay. 3,032,937.
Spitz, Samuel, to Electronic Oil Well Heater, Inc. Oil well temperature indicator and control. 3,026,940, 3–27–62, Cl. 166—60.
Spitz, Theodore S., C. F. Zahner, and R. L. Samson, to Curtiss-Wright Corp. Automatic electronic signal keyer. 3,021,516, 2–13–62, Cl. 340—345.
Spitzer, Lyman, Jr., to United States of America, Atomic Energy Commission. Reactor. 3,016,341, 1–9–62, Cl. 204—154.2.
Spitzer, Penn F., Jr., and F. Aagaard, to American Cyanamid Co. Oil soluble orange and yellow dyes. 3,049,533, 8–14–62, Cl. 260—197.
Spitzmiller, Ervin R. : *See*—
Bernstein, Jack, and Spitzmiller. 3,068,278.
Spitzmiller, Leo X., and J. L. Volger. Tubeless tire repair apparatus. 3,044,116, 7–17–62, Cl. 18—18.
Spivack, John D., to Geigy Chemical Corp. Tertiary amino alkylated amides. 3,048,620, 8–7–62, Cl. 260—471.
Spivack, John D., J. B. Peterson, and H. Kroll, to Geigy Chemical Corp. N-(alkylarylsulfonyl)-amino acids and salts thereof. 3,027,405, 3–27–62, Cl. 260—501.
Spivey, Hoke A. Portable chain saw mortising gage. 3,039,502, 6–19–62, Cl. 144—73.
Spivey, Warren R. : *See*—
Brackin, Hoyt E., and Spivey. 3,050,609.
Spo, Inc. : *See*—
Young, Lester C. 3,017,675.
Spodig, Heinrich. Magnetic separator. 3,016,145, 1–9–62, Cl. 209—223.
Spodnewski, Walter G., to United States of America, Air Force. Degaussing plate assembly for electro-magnetic vibration exciter. 3,062,041, 11–6–62, Cl. 73—71.6.
Spodobalski, Joseph W., to Morris, Wheeler, & Co., Inc. Apparatus for swaging or flaring saw teeth. 3,022,684, 2–27–62, Cl. 76—48.
Spoehr, Thomas F., and J. Burt, to Voi-Shan Industries, Inc. Plug means for countersunk fasteners having recessed heads. 3,065,662, 11–27–62, Cl. 85—41.
Spofa, sdruzeni podniku pro zdravotnickou vyrobu : *See*—
Cullik, Karel, Herold, Palkoska, Belik, and Dasek. 3,037,917.
Spogen, Lee R., Jr., and A. J. Svien, to Collins Radio Co. UHF transmission line switch. 3,064,211, 11–13–62, Cl. 333—7.
Spohr, Julius C., to MacGregor Sport Products, Inc. Fielder's glove. 3,030,629, 4–24–62, Cl. 2—19.
Spokes, Raymond E. : *See*—
Mecum, William D., Smith, and Spokes. 3,061,579.
Spolders, Rudolf, W. Breuing, and H. Pieper, to Ruhrstahl Aktiengesellschaft. Steel purification. 3,060,015, 10–23–62, Cl. 75—60.
Sponsible, Harry, to The Upjohn Co. Parenteral aqueous tetracycline composition containing N,N-dimethyl-acetamide solvent. 3,070,502, 12–25–62, Cl. 167—65.
Sponsel, Kurt : *See*—
Leupold, Curt W., Mohr, and Sponsel. 3,025,203.
Spooner, Daniel. Containers or jars. 3,022,916, 2–27–62, Cl. 215—31.
Spooner, David L., to Industrial Nucleonics Corp. Means for digitally indicating functions of an analog signal. 3,026,033, 3–20–62, Cl. 235—154.
Spooner, David L., to International Telephone and Telegraph Corp. Voltage comparator. 3,039,024, 6–12–62, Cl. 317—149.
Spooner, David L., to Industrial Nucleonics Corp. Energy modulation. 3,049,621, 8–14–62, Cl. 250—83.3.
Spooner Dryer & Engineering Co, Ltd., The : *See*—
Spooner, William W. 3,053,310.
Spooner, Robert B., to Koppers Co., Inc. Nuclear reactor safety device. 3,070,535, 12–25–62. Cl. 204—193.2.
Spooner, William W., to The Spooner Dryer & Engineering Co, Ltd. Apparatus for aligning plural superposed webs. 3,053,310, 9–11–62, Cl. 156—499.
Spoor, Herbert J., and R. J. Weir, to Smith Bros., Inc. Preparation and method for obtaining relief from coughing. 3,035,972, 5–22–62, Cl. 167—55.
Spoorweg Sein Industrie N.V. : *See*—
Holdway, Donald F. F. 3,027,499.
Sporck, Claus L., to The Lodge & Shipley Co. Metal working. 3,029,667, 4–17–62, Cl. 80—5.
Sporck, Claus L., to The Lodge & Shipley Co. Metal working roller. 3,029,764, 4–17–62, Cl. 113—52.
Sporck, Claus L., to The Lodge & Shipley Co. Metal working. 3,055,327, 9–25–62, Cl. 113—52.
Sporck, Claus L., and B. Sassen, to The Lodge & Shipley Co. Lightweight plurality of generally conical, hollow, metallic objects. 3,058,205, 10–16–62, Cl. 29—183.
Sporck, Claus L., and W. H. Busch, to The Lodge & Shipley Co. Lavatory with built-in water heater. 3,065,473, 11–27–62, Cl. 4—166.
Sporenberg, Willi : *See*—
Strugala, Alfred, Sporenberg, and Schmidt. 3,064,507.
Spork, Erwin E. Sliding door mounting. 3,042,960, 7–10–62, Cl. 16—105.
Sporn, Stanley R., and R. E. Mayer, to American Bosch Arma Corp. Position control system. 3,038,451, 6–12–62, Cl. 121—41.
Sportelli, Frank A., to Gravure Enterprises, Inc. Gravure. 3,024,111, 3–6–62, Cl. 96—38.
Sport-Wear Hosiery Mills, Inc. : *See*—
Hayes, Wallace. 3,039,282.
Spotnails, Inc. : *See*—
Beckman, William R., and Kremiller. 3,056,964.
Nelson, Edward D. 3,027,560.
Rogers, Murray H. 3,056,965.
Spound, Albert M. Reclining vehicle seat construction. 3,021,098, 2–13–62, Cl. 247—61.
Spound, Albert M. Reclining chair headrest construction. 3,024,064, 3–6–62, Cl. 397—61.
Spound, Albert M. Adjustable headrest for reclining chairs. 3,055,707, 9–25–62, Cl. 297—403.
Spound, Albert M. Reclining seat construction. 3,065,023, 11–20–62, Cl. 297—61.
Spound, Albert M., and N. W. Mizelle, said Mizelle, assor. to said Spound. Headrest construction. 3,065,029, 11–20–62, Cl. 297—391.
Spracklen, John G., to Zenith Radio Corp. Limiter-frequency detector. 3,028,559, 4–3–62, Cl. 329—134.
Spracklen, John G., to Zenith Radio Corp. Television receiver. 3,055,976, 9–25–62, Cl. 178—7.5.
Spracklen, Stanford B. : *See*—
Martin, Sterling T., and Spracklen. 3,051,392.
Spracklen, Stanford B., to Beckman Instruments, Inc. Oven temperature control. 3,028,470, 4–3–62, Cl. 219—19.
Spracklen, Stanford B., to Beckman Instruments, Inc. Chromatograph control system. 3,057,184, 10–9–62, Cl. 73—23.
Spracklen, Stanford B., D. N. Campbell, and C. G. Fellows, to Union Carbide Corp. Vapor fraction analyzer. 3,041,869, 7–3–62, Cl. 73—23.
Spradlin, George L. Arm exerciser. 3,059,476, 10–23–62, Cl. 73—380.
Spragins, John D., Jr., L. T. Pockman, and G. A. Brettell, to Ampex Corp. Loudspeaker. 3,027,964, 4–3–62, Cl. 181—31.
Sprague Electric Co. : *See*—
Adelson, Leonard, and Allmaker. 3,049,651.
Bryan, Samuel. 3,042,841.
Lehovec, Kurt. 3,029,366.
Lehovec, Kurt. 3,042,565.
Lehovec, Kurt, and Shirn. 3,061,461.
Lehovec, Kurt, and Smyth. 3,036,144.
Levitas, Alfred D. 3,066,051.
Netherwood, Paul H., and Rice. 3,048,750.
Peck, David B., and Markarian. 3,041,511.
Robinson, Preston. 3,065,391.
Robinson, Preston. 3,066,247.
Robinson, Preston, and Rogers. 3,070,522.
Ross, Sidney D. 3,067,367.
Ross, Sidney D., Petersen, and Finkelstein. 3,052,829.
Ruscito, Anthony J. 3,015,787.
Schroeder, Walter W., and Peck. 3,056,072.
Schwarz, Meyer. 3,030,561.
Sprague, Frank D., ½ to F. D. Sprague, Jr., and ½ to G. D. Sprague. Well packer. 3,038,541, 6–12–62, Cl. 166—196.
Sprague, Frank D., Jr. : *See*—
Sprague, Frank D. 3,038,541.
Sprague, Gary D. : *See*—
Sprague, Frank D. 3,038,541.
Sprague, Gordon V., Jr. : *See*—
Gubbrandsen, Helge, and Sprague. 3,052,901.
Sprague & Henwood, Inc. : *See*—
Janson, Leroy W., and Jones. 3,039,546.
Turman, Toby L. 3,029,874.
Sprague, James M., to Merck & Co., Inc. 10-(omega-amino alkyl)-10-hydroxythiaxanthenes. 3,047,580, 7–31–62, Cl. 260—293.4.
Sprague, James M., and E. J. Cragoe, Jr., to Merck & Co., Inc. Certain 1,2,5 thiadiazole-3-hydrazides. 3,027,381, 3–27–62. Cl. 260—302.
Sprague, James M., and E. J. Cragoe, Jr., to Merck & Co., Inc. Quaternary salts of N-alkanoyl-N-dimethyl hydrazine. 3,064,051, 11–13–62. Cl. 260—562.
Sprague, Milton A., to Ansul Chemical Co. Method of seed-bed preparation. 3,056,668, 10–2–62, Cl. 71—2.1.
Sprague, Richard L. : *See*—
Dyer, John W., and Sprague. 3,030,794.
Sprague, Richard L., and D. F. Wigner, to General Motors Corp. Magnetic switch. 3,047,690, 7–31–62, Cl. 200—87.
Sprague Robert H., to Horizons Inc. Preparation of triphenylmethane dyes. 3,046,209, 7–24–62, Cl. 204—158.
Sprague, Wesley C., to Sprague's E-Z-Lift Towbar, Inc. Towing mechanism. 3,048,286, 8–7–62, Cl. 214—86.
Sprague's E-Z-Lift Towbar, Inc. : *See*—
Sprague, Wesley C. 3,048,286.
Spraitzar, Frank C. : *See*—
Andrews, Steve, and Spraitzar. 3,020,878.
Spra-Lok Corp. : *See*—
Edelstone, Sigmund E., Dunlop, and Schlotthauer. 3,049,262.
Edelstone, Sigmund E., and Hardison. 3,049,263.
Sprando, Anthony E. : *See*—
Deer, James W., and Sprando. 3,018,347.
Sprang, George O., Floor scrubbing machine. 3,047,894, 8–7–62, Cl. 15—99.

Spraul, Joseph R.: *See*—
Batzer, David and Spraul. 3,054,523.
Spraul, Joseph R., and D. Batzer, to General American Transportation Corp. Reduction of titanium dioxide. 3,047,477, 7–31–62, Cl. 204—64.
Spray, Claude L. Process of treating the raw juice of agave plant leaves. 3,019,193, 1–30–62, Cl. 252—87.
Spray, Robert P.: *See*—
Morway, Arnold J., Daniels, and Spray. 3,018,249.
Sprayon Products, Inc.: *See*—
Ellis, John G. 3,044,713.
Spreading Machine Exchange, Inc.: *See*—
Kibler, Frederick, and Shapiro. 3,051,475.
Spreeuwers, Harm R.: *See*—
Kessler, Jacob C. F., and Spreeuwers. 3,029,226.
Kessler, Jacob C. F., and Spreeuwers. 3,037,956.
Spreiregen, Jacques. Headwear. 3,047,879, 8–7–62, Cl. 2—181.
Spremulli, Paul F.: *See*—
Blanding, Wendell S., Foster, and Spremulli. 3,021,643.
Spreng, Manfred: *See*—
Wehde, Heinrich, Lange, Fischer, and Spreng. 3,051,406.
Spreter, Roy P.: *See*—
Mylting, Laurits E., Spreter, and Horn. 3,038,482.
Spreter, Victor, to Fluckizer & Cie. Process for the manufacture of dials having recessed markings or markings formed in relief. 3,054,175, 9–18–62, Cl. 29—527.
Sprick, William L., to Caterpillar Tractor Co. Turbocharged V-type engine. 3,027,706, 4–3–62, Cl. 60—13.
Spriggs, Rueben S.: *See*—
Crittenden, Eugene C., Jr., and Spriggs. 3,055,775.
Springer, Albert L. Mechanical liner hanger. 3,018,830, 1–30–62, Cl. 166—124.
Springer, Anton M., to Telefonbau und Normalzeit G.m.b.H. Rotatable electromagnetic transducer system. 3,022,383, 2–20–62, Cl. 179—100.2.
Springer, Anton M., to Telefonbau und Normalzeit G.m.b.H. Magnetic recording and playback systems for magnetic tape and magnetic wire. 3,041,000, 6–26–62, Cl. 242—55.12.
Springer, Anton M., to Telefonbau und Normalzeit G.m.b.H. Rotatable magnetic systems for transforming audio currents. 3,047,673, 7–31–62, Cl. 179—100.2.
Springer, Anton M., to Telefonbau und Normalzeit G.m.b.H. Electromagnetic transducer. 3,064,088, 11–13–62, Cl. 179—100.2.
Springer, Bernhard: *See*—
Herte, Paul, Springer, and Karwowski. 3,023,513.
Springer, Edward L.: *See*—
Hawk, Thomas F., and Springer. 3,048,946.
Springer, Edward M., to Heyer Inc. Sheet feed control for duplicating machines. 3,029,074, 4–10–62, Cl. 271—61.
Springer, Edward M., to Heyer Inc. Pressure control for sheet feed means in duplicating machine. 3,063,711, 11–13–62, Cl. 271—36.
Springer, George and H. A. Cake pan stand. 3,066,918, 12–4–62, Cl. 257—250.
Springer, Hans: *See*—
Seidel, Felix, Singer, and Springer. 3,067,000.
Springer, Henrietta A.: *See*—
Springer, George and H. A. 3,066,918.
Springer, Lamar D., to The National Cash Register Co. Sterling multiplier. 3,067,938, 12–11–62, Cl. 235—156.
Springfield Boiler Co.: *See*—
Rehm, Gustav A. 3,029,797.
Springfield Machine Tool Co., The: *See*—
Montanus, Richard C. 3,053,127.
Springfield, Redwood L. Bimetallic mounting. 3,015,234, 1–2–62, Cl. 73—339.
Springfield Wire & Tinsel Co.: *See*—
Fessenden, Peter J. 3,045,102.
Springmeier, Edward H. Master hydraulic cylinder construction. 3,030,777, 4–24–62, Cl. 60—54.6.
Springmeier, Robert W. Basting device. 3,029,464, 4–17–62, Cl. 15—541.
Sprinkle, John L.: *See*—
Cron, James C., and Sprinkle. 3,039,209.
Spritz, Melvin J. Refrigerator deodorizer. 3,051,395, 8–28–62, Cl. 239—57.
Sproson, Kenneth W., to Bedard-Sproson, Inc. Shears. 3,046,655, 7–31–62, Cl. 30—233.
Spross, Spencer A., to Salada-Shirriff-Horsey Ltd. Marmalade base and process for its preparation. 3,019,111, 1–30–62, Cl. 99—129.
Sproul, Robert W., and W. Schreuer, to National Co., Inc. Wide dynamic range communications receiver. 3,063,011, 11–6–62, Cl. 250—20.
Sproule, John, to C. A. Miketta. Table-sofa-bed. 3,035,277, 5–22–62, Cl. 5—3.
Sproule, Robert A., to Electronic Switchgear (London) Ltd. Liquid conductivity measuring cell. 3,028,546, 4–3–62, Cl. 324—30.
Sproule, Robert S., to Dominion Engineering Works Ltd. Dry band Francis turbine. 3,051,441, 8–28–62, Cl. 253—117.
Sprout, Dale E. Lasso practicing apparatus. 3,066,939, 12–4–62, Cl. 273—102.
Sprout, Waldron & Co., Inc.: *See*—
Fisher, Chester D. 3,038,673.
Shook, Raymond E., Jr. 3,047,453.
Sprowl, John D., to Kaiser Aluminum & Chemical Corp. Method of coating a ferrous base with aluminum. 3,055,771, 9–25–62, Cl. 117—114.
Sprude, Edgar O., to Burroughs Corp. Modularized electrical network assembly. 3,065,384, 11–20–62, Cl. 317—101.
Sprung, Murray M., and F. O. Guenther, to General Electric Co. Novel organopolysiloxanes. 3,017,385, 1–16–62, Cl. 260—46.5.
Sprunk, Claude P.: *See*—
Mickle, Francis A., and Sprunk. 3,064,984.
Spud's Tools & Die, Inc.: *See*—
Roberts, James S. 3,021,577.
Spuhl, Walter. Machine for clamping two work pieces to one another. 3,056,966, 10–9–62, Cl. 1—177.
Spühl, Walter. Device for switching-off the feed of a coiled spring in a machine for the production of sprung structures. 3,064,693, 11–20–62, Cl. 140—92.7.
Spunize Co. of America, Inc.: *See*—
Cocker, John, II. 3,067,480.
Spunt, Shepard A. Processes for indicating the free end of textile strand wound on a core. 3,038,233, 6–12–62, Cl. 28—72.
Spunt, Shepard A. Dielectric welding device. 3,042,101, 7–3–62, Cl. 156—380.
Spurck, Richard F., to The Machlett Laboratories, Inc. Electroplating rack. 3,056,739, 10–2–62, Cl. 204—297.
Spurgeon, Samuel J., to Anderson Electric Corp. Combination driving point and compression connector for ground rod and ground conductor. 3,060,257, 10–23–62, Cl. 174—7.
Spurgeon, Samuel J., to Anderson Electric Corp. Compression connector cap. 3,060,258, 10–23–62, Cl. 174—7.
Spurlin, Harold M.: *See*—
Breslow, David S., and Spurlin. 3,058,944.
Spurlin, William G., to Ford Motor Co. Linch pin with spring retainer means. 3,015,248, 1–2–62, Cl. 85—8.3.
Spurlin, William V., to Syntron Co. Dual eccentric weight vibratory generator for circular feeder. 3,053,380, 9–11–62, Cl. 198—220.
Spurling, John E., to International Electronic Research Corp. Mass flow sensor. 3,026,727, 3–27–62, Cl. 73—211.
Spurlock, A. D. Electrical boat bail device. 3,018,751, 1–30–62, Cl. 114—197.
Spurlock, A. D. Boat bail devices. 3,029,768, 4–17–62, Cl. 114—185.
Spyridakis, Emanuel G., to Ingersoll-Rand Co. Impact tool. 3,070,201, 12–25–62, Cl. 192—30.5.
Square D Co.: *See*—
Anger, Ernest G., and Pettit. 3,050,670.
Arneberg, Don J., 3,037,154.
Arneberg, Don J., and Gribble. 3,059,231.
Brandenberg, Karl A. 3,024,333.
De Viney, Terrence E. 3,035,215.
De Witt, William C. 3,027,430.
Goudy, Paul R., Gribble, and Marien. 3,024,337.
Gribble, Joseph J., and Marien. 3,032,624.
Hudson, James W., and King. 3,029,964.
Karch, Walter C. 3,017,471.
Kiessling, Rudolf H. 3,045,503.
Kiessling, Rudolf H. 3,055,226.
King, Robert E., and Stanback. 3,065,386.
Kralik, Andrew J., and Di Marco. 3,061,697.
Lister, Charles A. 3,017,481.
Lister, Charles A. 3,028,934.
Lyon, Lyman R. 3,061,698.
Mekelburg, Earl F., and Frey. 3,059,072.
Mierendorf, Robert C. 3,065,385.
Mierendorf, Robert C., and Guettel. 3,034,024.
Mierendorf, Robert C., and Meyer. 3,024,354.
Montross, Robert C. 3,024,398.
Nielsen, Erik C., and Boley. 3,024,439.
Reiland, Frank D. 3,047,650.
Reiland, Frank D. 3,061,663.
Reiland, Frank D. 3,070,252.
Schurr, Charles A. 3,047,788.
Sherman, Alex. 3,042,299.
Sohns, Carl B. 3,023,780.
Stanback, Harris I. 3,070,679.
Whiting, Harold E. 3,032,619.
Young, Victor E. 3,037,157.
Square Mfg. Co.: *See*—
Arnett, Leslie, and Freise. 3,015,419.
Squier, William H., to J. P. Stevens & Co., Inc. Molded automobile floor covering and method for producing same. 3,036,942, 5–29–62, Cl. 154—49.
Squillace, Joseph W., E. Alieva, and M. A. Monticelli. Method and apparatus for making artificial dentures. 3,026,614, 3–27–62, Cl. 32—19.
Squire, Herbert D., to Admiral Corp. Sheet metal nut having depressed oval opening providing thread means. 3,018,685, 1–30–62, Cl. 85—36.
Squire, Herbert D., to Midwest Mfg. Corp. Adjustable shelf. 3,056,640, 10–2–62, Cl. 312—214.
Squires, George R., Jr., and R. W. Squires, to Dover Maid Industries, Inc. Adjustable shelving. 3,056,507, 10–2–62, Cl. 211—136.
Squires, Paul C., to United States of America, Navy. Digit displays. 3,034,806, 5–15–62, Cl. 283—1.
Squires, Rathbun B., to Westinghouse Electric Corp. Transmission cost computer. 3,058,660, 10–16–62, Cl. 235—185.
Squires, Richard W.: *See*—
Squires, George R., Jr., and R. W. Squires. 3,056,507.
Squires, Walter, Jr., and A. Terrenzio, to Esso Research and Engineering Co. Process for regeneration of contact masses. 3,055,824, 9–25–62, Cl. 208—216.

Squires, Walter G., Jr., to United States of America, Navy. Explosively anchored buoy. 3,035,285, 5–22–62, Cl. 9—9.

Squirrel, Frederick : *See*—
Lowe, Walter M., and Squirrel. 3,035,810.

Sramek, Elmer D. : *See*—
Engleson, Harry E., and Sramek. Re. 25,143.
Engleson, Harry E., and Sramek. 3,016,670.
Engleson, Harry E., and Sramek. 3,031,814.
Engleson, Harry E., and Sramek. 3,040,635.
Engleson, Harry E., and Sramek. 3,045,558.
Engelson, Harry E., and Sramek. 3,068,761.
Engelson, Harry E., and Sramek. 3,069,158.

Sreb, Jules H. : *See*—
Tatel, Howard E., and Sreb. 3,025,521.

Sreb, Jules H., to United States of America, Navy. Radio sonde. 3,064,194. 11–13–62, Cl. 325—115.

Sreb, Molly T. : *See*—
Tatel, Howard E., and Sreb. 3,025,521.

Srigley, Leland R. : *See*—
Mottin, Ralph E., Mix, and Srigley. 3,043,415.

Srybnik, Simon : *See*—
Taylor, John H. 3,036,823.

Staackmann, Joachim W., and H. P. Furgal, to Armour and Co. Water insoluble defibrillated meat protein. 3,062,655, 11–6–62, Cl. 99—14.

Staar, Marcel J. H. Devices for locking the chassis of record turntables record changers and the like turntable apparatus. 3,059,882, 10–23–62, Cl. 248—20.

Staats, Herbert, and A. Payton. Polygonal cutter. 3,059,508, 10–23–62, Cl. 77—61.

Staats, Robert C. : *See*—
Loveless, Vernon O., and Staats. 3,029,644.

Staba, Edward A. : *See*—
Ciarleglio, Louis F., Duffield, Staba, and Suffredini. 3,031,746.

Staba, Edward A., to Olin Mathieson Chemical Corp. Explosive forming with inertia means. 3,060,879, 10–30–62, Cl. 113—51.

Stabil Internacional S.A. : *See*—
Parodi, Federico A. 3,063,210.

Stabilito, Dominick : *See*—
Kennedy, Edward, Martinez, Paprzycki, and Stabilito. 3,028,713.
Kennedy, Edward, Martinez, Paprzycki, and Stabilito. 3,064,406.

Stabler, Alfred, and K. Unser, to Landis & Gyr A.G. Controllable ionization chamber. 3,067,350, 12–4–62, Cl. 313—93.

Stabler, Edward P., to General Electric Co. All magnetic shift register. 3,050,715, 8–21–62, Cl. 340—174.

Stacey, Elmer G. : *See*—
Hawk, Leonard H., and Stacey. 3,054,211.

Stacey, Ernest P. : *See*—
Bienvenue, Roland L., Stacey, and Swasey. 3,063,474.
Swasey, Samuel E., Wallace, and Stacey. 3,063,130.

Stach, Kurt : *See*—
Kasparek, Hermann, Stach, and Pfroepffer. 3,028,389.

Stack, Bogdan R., to International Telephone and Telegraph Corp. Carrier signalling system. 3,050,269, 10–23–62, Cl. 179—15.

Stack, George R., to Doman Helicopters, Inc. Moisture proof helicopter blade. 3,055,437, 9–25–62, Cl. 170—159.

Stack, Mary E. Adjustable support means for liquid dispensing vessels. 3,026,079, 3–20–62, Cl. 248—125.

Stack, Robert L., to Standard Oil Co. Removal of liquid hydrocarbons from empty compartments of ocean-going tankers. 3,067,069, 12–4–62, Cl. 154—22.

Stack, Vernon T., to The Gordon Co. Yarn clamping and severing mechanism for knitting machines. 3,055,199, 9–25–62, Cl. 66—140.

Stackhouse, Donald E. Fish lure. 3,056,228, 10–2–62, Cl. 43—42.51.

Stackhouse, Robert D., to Union Carbide Corp. High temperature coatings and bodies. 3,016,311, 1–9–62, Cl. 117—105.

Stackhouse, Wells F., to American Locker Co., Inc. Coin controlled lock. 3,023,875, 3–6–62, Cl. 194—92.

Stackhouse, Wells F., to American Locker Co., Inc. Coin controlled checking cabinets. 3,037,605, 6–5–62, Cl. 194—92.

Stackhouse, Wells F., to American Locker Co., Inc. Checking locker. 3,050,169, 8–21–62, Cl. 194—19.

Stackpole Carbon Co. : *See*—
Kosco, John C., and Schutz. 3,068,557.
Krellner, Walter G. 3,063,947.
Shobert, Erle I., II. 3,045,199.
Smisko, Paul. 3,042,629.

Stacy, John T., H. A. Saller, deceased (by M. A. Saller, executrix), and S. W. Forembka, Jr., to United States of America, Atomic Energy Commission. Fuel element for neutronic reactors. 3,032,492, 5–1–62, Cl. 204—193.2.

Stacy, John T., and H. A. Saller, to United States of America, Atomic Energy Commission. Iron base alloys and articles made therefrom. 3,047,484, 7–31–62, Cl. 204—193.2.

Stacy, Thomas F., to The French Oil Mill Machinery Co. Automatic cage type press. 3,070,003, 12–25–62, Cl. 100—51.

Stade, Gerhard, to Herbert Lindner G.m.b.H. Positioning, adjusting or measuring device for machines. 3,037,420, 6–5–62, Cl. 88—14.

Stadelman, Frank, to Latendorf Conveying Corp. Apparatus and method for de-panning bread loaves or the like. 3,057,497, 10–9–62, Cl. 214—309.

Stadelman, Frank, to Latendorf Conveying Corp. Apparatus de-panning bread loaves or the like. 3,066,812, 12–4–62, Cl. 214—309.

Stadelmann, Joachim P., to Chrysler Corp. Magnetically driven devices. 3,049,636, 8–14–62, Cl. 310—97.

Stadelmann, Rudolf, to Machine Tool Works Oerlikon, Administration Co. Loading and unloading device for cartridge magazines. 3,045,525, 7–24–62, Cl. 86—47.

Stadium Products Co., Inc. : *See*—
Goyette, Robert D. 3,024,022.

Stadler, George, Sr. Direct color enlarging apparatus. 3,031,922, 5–1–62, Cl. 88—24.

Stadler, Robert : *See*—
Reppe, Walter, and Stadler. 3,023,237.

Stadler, Robert, and F. Becke, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of acrylic acid esters. 3,048,621, 8–7–62, Cl. 260—479.

Stadler, Robert, and H. Lautenschlager, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of acrylic acid esters. 3,060,227, 10–23–62, Cl. 260—486.

Stadthaus, Kurt R. : *See*—
Stalker, Kenneth W., and Stadthaus. 3,035,463.

Staege, Werner, R. and R. Schenk, to Georg Schafer & Co., Kugelfeschen. Device for influencing the fuel delivery of an injection pump supplying the fuel for an internal combustion engine. 3,033,186, 5–8–62, Cl. 123—140.

Staege, Werner, R. Schenk, and R. Kleeberger. Fuel injection pump for internal combustion engines. 3,064,579, 11–20–62, Cl. 103—2.

Staehle, Haswell E., and J. K. Siddle, to Midland-Ross Corp. Thermopump system. 3,053,198, 9–11–62, Cl. 103—255.

Staerck, Thomas H., to English Electric Valve Co. Travelling wave electron discharge tubes. 3,026,445, 3–20–62, Cl. 315—3.5.

Staeuble, Max, and K. Weber, to Ciba Ltd. Anthraquinone vat dyestuff containing a reactive triazine nucleus. 3,022,304, 2–20–62, Cl. 260—249.

Staeuble, Max, and K. Weber, to Ciba Co., Inc. New rubicene dyestuffs capable of fixation on textile fibers. 3,029,236, 4–10–62, Cl. 260—249.5.

Staeuble, Max, and P. Stahel, to Ciba Co., Inc. Process for dyeing polyhydroxylated materials and preparations therefor. 3,031,252, 4–24–62, Cl. 8—34.

Staeuble, Max, and K. Weber, to Ciba Ltd. Dibenzanthrone vat dyestuffs containing a reactive triazine nucleus. 3,054,-795, 9–18–62, Cl. 260—249.

Staeuble, Max, and K. Weber, to Ciba Ltd. Anthraquinone vat dyestuffs containing chlorotriazinyl groups. 3,060,180, 10–23–62, Cl. 260—249.

Staff, Charles B., to Union Carbide Corp. Method of joining the edges of webs to form a large area film fabrication. 3,063,889, 11–13–62, Cl. 156—201.

Staff, William S. Vibration detecting and recording system. 3,040,586, 6–26–62, Cl. 73—492.

Staffa, Raymond J. : *See*—
Mayfield, Alfred L., and Staffa. 3,026,261.

Staffel, Paul J. : *See*—
Beaver, David J., Stoffel, and Hamm. 3,066,021.

Stafford, Alton B. Axle puller. 3,025,595, 3–20–62, Cl. 29—239.

Stafford, John N. Linking and nesting units. 3,053,493, 9–11–62, Cl. 248—163.

Stafford, Mildred I. Golf ball retriever. 3,038,751, 6–12–62, Cl. 294—19.

Stafford, Owen L. : *See*—
Greminger, George K., Jr., and Stafford. 3,060,139.

Stafford, Roger A., to Thompson Ramo Wooldridge Inc. Apparatus for performing high-speed division. 3,023,961, 3–6–62, Cl. 235—164.

Stafford, Roger A., to Thompson Ramo Wooldridge Inc. Serial-parallel arithmetic units without cascaded carries. 3,023,962, 3–6–62, Cl. 235—175.

Stafiej, Stanley F., and S. J. Groszos, to American Cyanamid Co. Plasticized compositions of a halo-vinylidene resin and a borazole. 3,032,525, 5–1–62, Cl. 260—32.4.

Staflex Co. Ltd. : *See*—
Went, Norman H., and Banks. 3,067,162.

Stage, Leo J., to Sun Chemical Corp. Reflective fabric and its manufacture. 3,039,904, 6–19–62, Cl. 154—44.

Stager, Francis W. : *See*—
Minor, Robert N. and T. A., and Stager. 3,030,850.
Minor, Robert N. and T. A., and Stager. 3,066,766.

Stager, Francis W., and R. N. and T. A. Minor, Automobile anti-skid control assembly. 3,046,060, 7–24–62, Cl. 303—21.

Staggers, John O., and H. K. Bruner, to Vanadium Corp. of America. Process of making ferroalloys. 3,030,204, 4–17–62, Cl. 75—129.

Stagmeier, Arthur F., to General Foods Corp. Dehydrated potato product and process. 3,021,224, 2–13–62, Cl. 99—207.

Stagmeier, Arthur F., to General Foods Corp. Dehydration of water chestnuts. 3,023,110, 2–27–62, Cl. 99—204.

Stahel, Peter : *See*—
Staeuble, Max, and Stahel. 3,031,252.

Staheli, Paul : *See*—
Wildbolz, Rudolf, Binder, and Staheli. 3,029,477.

Stahl, Alex D. : *See*—
Foote, Daniel J., and Stahl. 3,050,977.

Stahl, Curt, to U.S. Tile-Service Corp. Monitor system. 3,070,655, 12–25–62, Cl. 178—5.8.
Stahl, Lloyd E., to Woodall Industries, Inc. Headliner panel and roof assembly. 3,042,446, 7–3–62, Cl. 296—137.
Stahl Metal Products, Inc.: *See*—
Marra, Everett. 3,024,917.
Stahl, Nils E. J., and O. U. Larsson. Ticket recorder; recording counter or the like. 3,023,950, 3–6–62, Cl. 235—1.
Stahl, Richard F., and C. Woolf, to Allied Chemical Corp. Isomerization of dichlorobutenes. 3,049,572, 8–14–62, Cl. 260—654.
Stahl, Richard F., and C. Woolf, to Allied Chemical Corp. Isomerization of dichlorobutenes. 3,049,573, 8–14–62, Cl. 260—654.
Stahl, Roy P.: *See*—
Schwartz, Robert E., Stahl, and Falk. 3,044,265.
Schwartz, Robert E., Stahl, and Falk. 3,050,944.
Stahl, Samuel, D. J. Foote, and K. H. Buchmann, to Master Lock Co. Permutation locks. 3,023,600, 3–6–62, Cl. 70—81.
Stahl, Seymour: *See*—
Dimler, William A., Jr., and Stahl. 3,065,258.
Stahl- und Rohrenwerke Reisholz G.m.b.H.: *See*—
Zimpel, Adolf. 3,036,696.
Stahl- und Walzwerke Rasselstein/Andernach, A.G.: *See*—
Busch, Andreas. 3,066,041.
Stahlecker, Fritz, to Wilhelm Stahlecker G.m.b.H. Load arm for pressure rollers of draw frames. 3,015,860, 1–9–62, Cl. 19—135.
Stahlecker, Fritz. Belt tensioner, particularly for spinning or twisting machines. 3,050,929, 8–28–62, Cl. 57—105.
Stahlecker, Hans: *See*—
Schurr, Hans, and Stahlecker. Re. 25,192.
Stahlecker, Wilhelm: *See*—
Schurr, Hans, and Stahlecker. 3,054,250.
Stahlecker, Wilhelm. Multiple spindle drive for spinning and twining machines. 3,035,400, 5–22–62, Cl. 57—105.
Stahlecker, Wilhelm, G.m.b.H.: *See*—
Stahlecker, Fritz. 3,015,860.
Stahler, Gerhard: *See*—
Scherer, Otto, Hahn, and Stahler. 3,020,304.
Stahler, Maurice R., Jr.: *See*—
Hyson, Archibald M., and Stahler. 3,030,212.
Hyson, Archibald M., and Stahler. 3,062,659.
Stahlgruber Otto Gruber & Co.: *See*—
Gruber, Willeim. 3,039,509.
Stahli, Alois, to Bauwerk A.G. Device for the aligning of parquet blocks. 3,065,834, 11–27–62, Cl. 198—33.
Stähli, Gustav, and K. Hänseler, to Joh. Jacob Rieter & Cie, Actiengesellschaft. Ring traveler. 3,036,422, 5–29–62, Cl. 57—125.
Stähli, Paul, to Gebert & Cie. Operating device for a flushing cistern discharge valve. 3,027,567, 4–3–62, Cl. 4—67.
Stahly, John M. Side delivery dump cart. 3,019,054, 1–30–62, Cl. 298—18.
Stahlwerk Kabel C. Pouplier Jr. G.m.b.H.: *See*—
Croneyer, Otto, Pritzbuer, Winterhoff, and Mayer. 3,067,476.
Stahlwerke Südwestfalen, A.G.: *See*—
Gassen, Horst. 3,046,320.
Stahmann, John A., to Gladding, McBean & Co. Three-dimensional carrier sheet for decorating hollow ware. 3,060,606, 10–30–62, Cl. 41—10.
Stahmer, Bernhardt. Power control means for vertical lift propeller jet aircraft. 3,045,949, 7–24–62, Cl. 244—12.
Stahmer, Bernhardt. Jet-diversion dome aircraft. 3,053,483, 9–11–62, Cl. 244—29.
Stahnke, Otto: *See*—
Keunecke, Emil, and Stahnke. 3,060,106.
Stahr, Donald F.: *See*—
Le Bras, Louis R., and Stahr. 3,055,867.
Le Bras, Louis R., and Stahr. 3,057,824.
Stahre, Robert E.: *See*—
O'Connell, John B., and Stahre. 3,035,451.
Staiger, Kurt: *See*—
Burtt, Jack R., Palino, and Staiger. 3,047,271.
Kamm, Wunibald I. E., Staiger, and Krautter. 3,036,588.
Staiger, Leo. Tray attachment for a patient's bed. 3,037,214, 6–5–62, Cl. 5—92.
Staines, Alfred J., to Harris-Intertype Corp. Sheet lifting device. 3,039,767, 6–19–62, Cl. 271—26.
Stainless & Steel Products Co.: *See*—
Larson, John I., Mohr, Eilers, and Logemann. 3,065,974.
Stair, Carlyle B. Regulator for vehicle brakes. 3,053,348, 9–11–62, Cl. 188—112.
Stair, Carlyle B. Emergency trailer brake actuator. 3,058,548, 10–16–62, Cl. 188—112.
Stair, Carlyle B. Emergency brake actuator. 3,058,781, 10–16–62, Cl. 303—2.
Stake, Anders G., and C. L. Thelning, to Percy Tham Aktiebolag. Top and side hinged window. 3,036,346, 5–29–62, Cl. 20—42.
Staker, Donald: *See*—
Paris, William W., and Staker. 3,068,082.
Staker, Donald D., to Monsanto Chemical Co. Acid polyester succinates. 3,045,042, 7–17–62, Cl. 260—485.
Stakmore Co., Inc.: *See*—
Geller, Roscoe G. 3,030,141.
Wilkinson, Michael A. 3,042,447.
Stal Refrigeration AB: *See*—
Conradi, Henrik, de Frumerie, and Andersson. 3,041,954.
Stalcup, Howard J., to Stalcup, Inc. Steam emitting sign apparatus. 3,069,794, 12–25–62, Cl. 40—106.22.
Stalcup, Inc.: *See*—
Stalcup, Howard J. 3,069,794.
Stalcup, Johnnie V.: *See*—
Evans, Richard C., and Stalcup. 3,015,299.
Stalder, William L.: *See*—
Hanson, George E., and Stalder. 3,031,438.
Stalego, Charles J.: *See*—
Morgan, Willard L., Whitehurst, Russell and Stalego. 3,021,564.
Stalego, Charles J., to Owens-Corning Fiberglas Corp. Method and apparatus for forming fibers. 3,015,127, 1–2–62, Cl. 18—2.5.
Stalego, Charles J., to Owens-Corning Fiberglas Corp. Apparatus for producing fibers. 3,015,842, 1–9–62, Cl. 18—2.5.
Stalego, Charles J., to Owens-Corning Fiberglas Corp. Apparatus for forming and processing continuous filaments. 3,032,813, 5–8–62, Cl. 18—8.
Stalego, Charles J., to Owens-Corning Fiberglas Corp. Method and apparatus for forming fibers. 3,049,751, 8–21–62, Cl. 18—2.5.
Staley, A. E., Mfg. Co.: *See*—
Bralley, James A., and Wolff. 3,030,392.
Brockway Charles E. 3,061,472.
Brockway Charles E., Christman, and Estes. 3,061,471.
Brockway, Charles E., and Ready. 3,065,223.
Casey, James P., and Lehman. 3,015,572.
Cogswell, George W. 3,069,361.
Etheridge, Oliver R., Wagoner, McDonald, and Lippincott. 3,067,067.
Fiala, Richard J. 3,061,622.
Hurst, Thomas L., and Turner. 3,067,108.
Larson, Roy F., Langlois, and Shildneck. 3,016,398.
Tuschhoff, John V., and Smith. 3,022,289.
Smith, Clifford E., and Tuschhoff. 3,069,410.
Staley, Alan A.: *See*—
Dreyfoos, Alex W., Jr., Mazza, Radke, and Staley. 3,055,006.
Staley, John, to Reynolds Metals Co. Welding with oscillatable welding head. 3,035,156, 5–15–62, Cl. 219—125.
Staley Mfg. Co.: *See*—
Staley, William L. 3,064,974.
Staley, Thomas L.: *See*—
Bangert, Robert J., and Staley. 3,020,333.
Staley, William L., to Staley Mfg. Co. Automatic pin cleaning and dust control apparatus. 3,064,974, 11–20–62, Cl. 273—45.
Stalker Corp., The: *See*—
Clarke, Daniel J. 3,057,393.
Clarke, Daniel J., and Stalker. 3,018,542.
Clarke, Daniel J., and Stalker. 3,045,327.
Clarke, Daniel J., and Stalker. 3,045,967.
Stalker, Edward A. 3,044,152.
Stalker, Edward A. 3,045,964.
Stalker, Edward A. 3,056,188.
Stalker, Edward A. 3,068,824.
Stalker, Edward A.: *See*—
Clarke, Daniel J., and Stalker. 3,018,542.
Clarke, Daniel J., and Stalker. 3,045,327.
Clarke, Daniel J., and Stalker. 3,045,967.
Stalker, Edward A. Joint construction. 3,019,512, 2–6–62, Cl. 29—156.8.
Stalker, Edward A. Centrifugal pumping means. 3,019,736, 2–6–62, Cl. 103.
Stalker, Edward A., to Stalker Corp. Hollow blades for compressors. 3,044,152, 7–17–62, Cl. 29—156.8.
Stalker, Edward A., to The Stalker Corp. Bladed wheels for compressors, turbines and the like. 3,045,964, 7–24–62, Cl. 253—39.
Stalker, Edward A., to The Stalker Corp. Method and apparatus for continuous fabrication of compressor blades. 3,056,188, 10–2–62, Cl. 29—156.8.
Stalker, Edward A. Method of making hollow blades for compressors, turbines, and the like. 3,058,202, 10–16–62, Cl. 29—156.8.
Stalker, Edward A., to Stalker Corp. Apparatus for bonding. 3,068,824, 12–18–62, Cl. 113—59.
Stalker, James E., to Home Metal Products Co. Vented kitchen hood. 3,064,551, 11–20–62, Cl. 98—115.
Stalker, Kenneth W., and K. R. Stadthaus, to General Electric Co. Machine for forming wheels. 3,035,463, 5–22–62, Cl. 80—16.
Stall, Cash G., ⅓0 to Gadget-Of-The-Month Club, Inc. Educational toy. 3,015,895, 1–9–62, Cl. 35—35.
Stall, James H. Barbecuing vehicle. 3,025,782, 3–20–62, Cl. 99—339.
Stall, Joe C.: *See*—
Bearden, William G., and Stall. 3,070,450.
Stallard, Ralph M., to General Motors Corp. Trim panel joint covering. 3,046,179, 7–24–62, Cl. 156—219.
Stallard, Ross G. Adjustable chair seat. 3,022,037, 2–20–62, Cl. 248—421.
Stallbaumer, Hans: *See*—
Haüsserrnann, Kurt, Mäucher, and Stallbaumer. 3,016,120.
Staller, Karel J., to International Telephone and Telegraph Corp. High current rectifier. 3,025,436, 3–13–62, Cl. 317—234.
Stallman, Ralph F. Bearings. 3,058,791, 10–16–62, Cl. 308—238.

Stallmann, Otto, to E. I. du Pont de Nemours and Co. Process for preparing polyfluoroaldehydes. 3,038,941, 6–12–62, Cl. 260—603.

Stalmuke, Constantine J. : *See—*
Ahara, Edward V., Johnson, De Groot, and Stalmuke. 3,051,125.
Brown, Robert C., De Groot, and Stalmuke. 3,030,917.

Stalson, Stanley L., to United States Steel Corp. Apparatus for cleaning wire rod. 3,044,098, 7–17–62, Cl. 15—302.

Stalter, Neil J., to E. I. du Pont de Nemours and Co. Hydrogen peroxide-alkali metal bicarbonate acidic bleaching process. 3,017,236, 1–16–62, Cl. 8—111.

Staltz, Orville B. : *See—*
Sauer, John E. B. 3,049,663.

Stambaugh, Burnell C., and G. E. Meckley, to Hanover Tool Co., Inc. Ratchet-type open end wrench. 3,023,654, 3–6–62, Cl. 81—179.

Stambaugh, Curvin D. : *See—*
Todd, Richard H., and Stambaugh. 3,035,820.

Stambaugh, Edgel P. : *See—*
Foos, Raymond A., and Stambaugh. 3,065,095.

Stambaugh, Richard H., and J. D. Fuller. Prefabricated knock-down building structure. 3,020,601, 2–13–62, Cl. 20—2.

Stambera, Adolf, to Fr. Hesser Maschinenfabrik-Aktiengesellschaft, Firma. Apparatus for discharging bulk material in granular or powdery state. 3,049,268, 8–14–62, Cl. 222—227.

Stamberger, Paul, to Minerals & Chemicals Philipp Corp. Method for preparing aqueous dispersions of clay coated with polymers of ethylenically unsaturated monomers and aqueous film forming compositions produced thereby. 3,068,185, 12–11–62, Cl. 260—29.6.

Stamford Chemical Industries, Inc. : *See—*
Michaels, Edwin B. 3,034,989.
Michaels, Edwin B. 3,067,144.
Michaels, Edwin B. 3,067,155.
Poon, George S. Y. 3,067,176.

Stamford Rubber Supply Co., The : *See—*
Posnansky, Karl W. 3,031,422.

Stamford Wall Paper Co., Inc. : *See—*
Lovella, Loretta A. 3,054,508.

Stamicarbon N.V. : *See—*
De Bruyne, Marinus A., Hoedemakers, and Hoogendonk. 3,055,049.
De Koning, Jacob. 3,047,147.
De Koning, Jacob. 3,047,148.
De Koning, Jacob. 3,047,149.
De Koning, Jan. 3,061,099.
De Vries, Harmen, Schuhmacher, and Soeterbroek. 3,068,216.
Dumont, Robert G. A. 3,047,150.
Fontein, Freerk J. 3,045,823.
Fontein, Freerk J., Dreissen, and Jennekens. 3,037,629.
Fontein, Freerk J., and Sieswerda. 3,017,666.
Haringhuizen, Pieter J. 3,036,439.
Koopal, Sieds, Verstrijden, Pesch, and Deumens. 3,056,-830.
Leeman, Jan N. J. 3,016,144.
Ottenheym, Johannes H. 3,036,113.
Ottenheym, Johannes H., and Kerkhoffs. 3,048,580.
Ottenheym, Johannes H., Pesch, and Verstrijden. 3,052,-671.
Ottenheym, Johannes H., and von den Hoff. 3,031,443.
Pesch, Willem, and Verstrijden. 3,047,564.
Schuhmacher, Jacobus P., and Hendriks. 3,048,575.
Simon, Henri J. H. 3,036,909.
Steeman, Johannes W. M. 3,047,629.
Steeman, Johannes W. M. 3,056,837.
Van den Berg, Cornelis E. P. V., Bos, and Müytjens. 3,060,162.
Van der Velden, Hermanus A. 3,052,259.
Van Dinteren, Johannus C. 3,046,791.
Winants, Gerard I. H., and Hoogendonk. 3,056,671.
Zaborowski, Robert. 3,023,893.

Stamm, Alfred J. : *See—*
Conlisk, John R., Jonas, Stamm, Tarkow, and Weatherwax. 3,034,947.

Stamm, Heinrich, to Ebauches-Fabrik, ETA A.G. Escapement lever for watches, timepieces and the like. 3,030,764, 4–24–62, Cl. 58—121.

Stammbach, Walter : *See—*
Frick, Wilhelm E., and Stammbach. 3,034,955.

Stammer, Charles H., and I. M. Miller, to Merck & Co., Inc. Fermentation process for producing novobiocin. 3,049,475, 8–14–62, Cl. 195—80.

Stammers, Peter H. : *See—*
Reynolds, Reginald, and Stammers. 3,046,947.
Reynolds, Reginald, and Stammers. 3,046,949.

Stamp, Hugo O., deceased, to R. J. Stamp and Marine National Exchange Bank of Milwaukee, executors of said H. O. Stamp. Golf club separator. 3,053,298, 9–11–62, Cl. 150—5.

Stamp, Robert J. : *See—*
Stamp, Hugo O. 3,053,298.

Stampa, Guido B. : *See—*
Farnham, Alford G., and Stampa. 3,062,803.

Stampe, Gerhard, K. F. Mollering, and K. Grosskopf, to Otto H. Drager. Flammable gas detection. 3,026,711, 3–27–62, Cl. 73—23.

Stamper, George F. Pipe hanger. 3,042,352, 7–3–62, Cl. 248—68.

Stamper, Lance J. : *See—*
Lill, Melvin H., and Stamper. 3,030,815.

Stampfli, Harald, to Lucifer S.A. Servo-valves. 3,016,065, 1–9–62, Cl. 137—623.

Stamps, Mabel W. : *See—*
Jones, Hugh H., and Stamps. 3,062,326.

Stamps, Samuel C. : *See—*
Jones, Hugh H., and Stamps. 3,062,326.

Stamps, William E., A. R. Merrill, and M. R. Livingston, to Celanese Corp. of America. Method of producing slub yarn with an intermittent core. 3,044,251, 7–17–62, Cl. 57—157.

Stan, Henry : *See—*
Glass, Marvin I., and Stan. 3,061,312.

Stanaback, Robert J. : *See—*
Meltzer, Robert I., Stanaback, and Lutz. 3,046,306.

Stanaway, Robert E. : *See—*
Gibbs, Joseph P., and Stanaway. 3,060,396.

Stanback, Harris I. : *See—*
King, Robert E., and Stanback. 3,065,386.

Stanback, Harris I., to Square D Co. Fusible load center. 3,070,679, 12–25–62, Cl. 200—133.

Stanberry, C. J., Jr. : *See—*
Groves, William L., Jr., and Stanberry. 3,065,172.

Stanberry, C. J., Jr., and W. L. Grooves, Jr., to Continental Oil Co. Low fluid loss composition. 3,052,628, 9–4–62, Cl. 252—8.55.

Stancher, Joseph E., to Essaness Theater Corp. Admission control system. 3,018,470, 1–23–62, Cl. 340—51.

Stancliff, Clifton L. and G. N. ; said G. N. Stancliff assor. to said C. L. Stancliff. Liquid-cooled internal combustion engine with means for relieving thermal stress. 3,062,614, 11–6–62, Cl. 123—41.01.

Stancliff, Gerald N. : *See—*
Stancliff, Clifton L. and G. N. 3,062,614.

Standal, Elizabeth V. : *See—*
Standal, Stanley. 3,051,120.

Standal, Stanley, deceased ; E. V. Standal, executrix. Inboard outboard drive mechanism for boats. 3,051,120, 8–28–62, Cl. 115—41.

Standard Bag Co. : *See—*
Kaplan, Charles L., and Mylius. 3,041,987.

Standard Brands Inc. : *See—*
Campbell, Alfred D. 3,031,308.
Fetzer, Walter R. 3,020,157.
Fetzer, Walter R. 3,020,158.
Johnston, William R. 3,034,968.
Satterly, Kenneth B. 3,037,017.

Standard Car Truck Co. : *See—*
Williams, Ray C., and Clasen. 3,024,743.

Standard Coil Products Co., Inc. : *See—*
Eland, Robert C. A. 3,066,270.
Reynolds, George W. 3,046,363.

Standard Container, Inc. : *See—*
Vogel, William M., Jr. 3,056,560.

Standard Conveyor Co. : *See—*
Boller, Charles R. 3,063,542.
Jones, Thomas P. 3,019,883.
Stout, Glenn M., and Nellis. 3,055,611.
Stout, Glenn M., and Nellis. 3,055,612.

Standard Dredging Corp. : *See—*
Murray, John B., Posselt, and Long. 3,068,655.

Standard Electrical Products Co. : *See—*
Jordan, Stanley R. 3,038,771.
Ross, Albert. 3,025,452.
Schubert, Alton J., and Sierra. 3,065,287.

Standard Fire Hose Co. : *See—*
Hattenhauer, Albert W. 3,067,822.

Standard Gage Co., Inc. : *See—*
Croshier, Walter J., and Burgi. 3,026,622.

Standard Instrument Corp. : *See—*
Zeitlin, Edward J., Leighton, and Gaon. 3,036,767.

Standard Insulation Co., Inc. : *See—*
Sacher, Alex. 3,015,577.

Standard Mirror Co., Inc. : *See—*
Knowlton, William E., and Meade. 3,026,771.
Meade, Lynn C. 3,059,539.
Weingartner, Gerald A. 3,064,536.

Standard Oil Co., The : *See—*
Belden, Sarah H. 3,070,603.

Standard Oil Co. (Indiana) : *See—*
Alford, Harvey E., and Veatch. 3,023,116.
Baldwin, Richard H. 3,064,044.
Barber, Herbert H., Jr. 3,015,227.
Barnes, Robert S., Jr., and Mann. 3,032,502.
Barney, James E., II, Tuskan, and Hensley. 3,058,813.
Becker, Sam B. 3,036,132.
Belkin, Harold M. 3,033,541.
Beretvas, Helen S., and Juriga. 3,068,218.
Binning, Robert C., Jennings, and Martin. 3,035,060.
Binning, Robert C., and Woskow. 3,042,197.
Blaha, Eli W., and Sabol. 3,051,654.
Bolton, Benjamin A. 3,026,300
Bolton, Benjamin A. 3,054,763.
Bolton, Benjamin A. 3,067,158.
Bolton, Benjamin A., and Kolb. 3,051,724.
Bowman, Norman J. 3,047,524.
Bowman, Norman J., and Proell. 3,015,570.
Bowman, Norman J., and Proell. 3,015,571.
Bowman, Norman J., and Proell. 3,040,087.
Brandenburg, John F., and Gordon. 3,039,921.
Brandt, Preston L., and Sechrist. 3,030,939.
Broadhead, Ronald L. 3,040,001.

Standard Oil Co. (Indiana) : *See*—Continued
Broadhead, Ronald L. 3,047,525.
Broadhead, Ronald L. 3,066,108.
Broadhead, Ronald L., and Fields. 3,035,025.
Broadhead, Ronald L., and Van Strien. 3,053,783.
Butcher, Walter W., and Proell. 3,067,076.
Carmody, Don R., and Zletz. 3,066,478.
Cassis, Frank A. 3,024,256.
Clingman, William H., Jr. 3,067,115.
Cropper, Wendell P., and Ritzenthaler. 3,020,749.
Dale, Allan L., Orullian, and Pope. 3,051,433.
Dravnieks, Andrew. 3,061,548.
Dravnieks, Andrew, Troscinski, and Birkness. 3,056,664.
Evering, Bernard L., and Roebuck. 3,032,508.
Evering, Bernard L., and Roebuck. 3,067,228.
Fields, Ellis K. 3,030,415.
Fields, Ellis K. 3,048,615.
Fields, Ellis K. 3,048,616.
Fields, Ellis K. 3,048,617.
Fields, Ellis K. 3,048,618.
Fields, Ellis K., and Sandri. 3,046,314.
Ford, Fred A. 3,045,053.
Fotis, Peter, Jr. 3,069,363.
Freedman, Arthur J. 3,060,007.
Freedman, Arthur J. 3,067,386.
Freedman, Arthur J., and Reid. 3,049,915.
Frey, Horst E. 3,042,656.
Frey, Horst E. 3,067,179.
Garetson, Paul K., and Jones. 3,037,008.
Gaynor, James W., and Eisenhauer. 3,024,193.
Gaynor, James W., and Vienna. 3,062,745.
Gordon, Leon B., and Moote. 3,036,016.
Grubaugh, Richard F. 3,044,123.
Grubb, Henry M., and Threhardt. 3,064,193.
Hamer, Martin. 3,036,905.
Hamer, Martin, Kawahara, and Brown. 3,037,492.
Hamer, Martin, La Croix, and Tracy. 3,052,530.
Hamer, Martin, and Oblad. 3,036,902.
Hirsch, Arthur G. 3,028,350.
Hirsch, Arthur G., Bolton, and Shelby. 3,062,770.
Hirsch, Arthur G., Bolton, and Van Strien. 3,067,157.
Hirsch, Arthur G., and Knobloch. 3,032,559.
Hodes, William, and Van Strien. 3,046,258.
Hook, Edwin O., and Tate. 3,023,092.
Ives, Edwin. 3,026,191.
Jacobs, Robert B., and Rhodes. 3,037,375.
Jason, Emil F., and Fields. 3,042,722.
Jason, Emil F., and Fields. 3,052,716.
Jason, Emil F., and Fields. 3,054,814.
Jennings, Joseph F., and Clingman. 3,062,905.
Johnston, Walker F., Jr., and Teykl. 3,024,187.
Kalfadelis, Charles D., and Meyer. 3,022,333.
Kapff, Sixt F. 3,061,723.
Kapff, Sixt F., and Ginsburgh. 3,021,199.
Kapff, Sixt. F., and Jacobs. 3,060,723.
Kawahara, Fred K., Brown, and Tracy. 3,065,742.
Kawahara, Fred K., and Mickel. 3,049,871.
Kirkland, Earl V., Lee, and Smith. 3,058,942.
Knight, Harmon M., and Kelly. 3,024,204.
Knight, Harmon M., and Kelly. 3,030,433.
Knight, Harmon M., and Kelly. 3,066,131.
Knobloch, James O., and Liao. 3,033,899.
Knobloch, James O., and Meyer. 3,059,025.
Kolb, Kenneth E., and Bolton. 3,060,191.
Korpics, Charles J. 3,056,703.
Korpics, Charles J. 3,067,075.
Leisey, Frank A. 3,033,036.
Lemmon, Norman E., and Sabol. 3,042,613.
Lewis, Lloyd G., Whitesell, and Ginsburgh. 3,037,123.
Linsk, Jack. 3,056,702.
Marti, Paul O., Jr. 3,054,258.
Martin, Eugene C., and Jennings. 3,066,121.
May, Paul D., and Lee. 3,025,327.
McAlister, Charles G., Lee, and Knight. 3,053,869.
McKinney, Aubrey R. 3,060,223.
Meguerian, Garbis H., and Rumpel. 3,059,467.
Micheletti, Steno F. 3,032,953.
Mohlman, John W. 3,048,529.
Morello, Edwin F. 3,020,180.
Morriss, Francis V., and Meiners. 3,061,414.
Mosher, Robert A. 3,056,260.
Mosher, Robert A., and Ossyra. 3,060,687.
Nerheim, Arvie G. 3,063,286.
Nerheim, Arvie G., and Tucker. 3,050,984.
Oita, Katashi, and Jason. 3,052,649.
Peters, Edwin F., and Evering. 3,033,844.
Petkus, John J., and Wygant. 3,048,495.
Proell, Wayne A. 3,028,273.
Proell, Wayne A. 3,028,810.
Proell, Wayne A., and Bowman. 3,020,181.
Proell, Wayne A., and Stanley. 3,044,912.
Rhodes, Joseph C. 3,021,704.
Ridgway, John A., Jr., and O'Connor. 3,020,241.
Ridgway, John A., Jr., and Zlatkis. 3,030,191.
Ritzenthaler, Bruce A. 3,046,420.
Ritzenthaler, Bruce A. 3,048,336.
Rolih, Robert J., and Fields. 3,054,821.
Rosscup, Robert J., and Liehe. 3,015,625.
Sechrist, Clifton N., Jennings, and Kelly. 3,042,730.
Serres, Carl, Jr., and Fields. 3,038,940.
Serres, Carl, Jr., and Fields. 3,043,886.
Standard Oil Co. (Indiana) : *See*—Continued
Shelby, Thomas A. 3,053,782.
Sorg, Leonard V. 3,067,384.
Spiller, Charles A., Jr., and Malo. 3,029,278.
Stack, Robert L. 3,067,069.
Stephens, James R. 3,035,026.
Stephens, James R. 3,046,252.
Stephens, James R., and Van Strien. 3,063,969.
Stephens, James R., Van Strien, and Broadhead. 3,040,000.
Stoffer, Robert L., and Van Winkle. 3,027,307.
Stuckey, James M. 3,043,891.
Swakon, Edward A. 3,021,357.
Tisinai, George F., and Troscinski. 3,028,268.
Traise, Thornton P., and Leet. 3,052,633.
Wadsworth, Francis T., and Kenton. 3,040,009.
Walker, Donald C., and Gambril. 3,053,074.
Weitkamp, Alfred W. 3,026,315.
Whitesell, Lowell G. 3,058,662.
Williams, Jack A., and Hirsch. 3,020,199.
Wolff, William F. 3,015,670.
Zajac, Stephen J. 3,053,769.
Standard Oil Co. (Ohio), The : *See*—
Alford, Harvey D. 3,064,055.
Belden, Sarah H. 3,030,374.
Burhans, Ralph W. 3,050,252.
Burhans, Ralph W. 3,063,637.
Burhans, Ralph W., and Jackson. 3,029,642.
Burhans, Ralph W., Jackson, and Stevko. 3,048,335.
Burrows, Harry R., and Bionchek. 3,058,102.
Callahan, James L. 3,044,965.
Callahan, James L., Foreman, and Veatch. 3,044,966.
De Gray, Richard J. 3,033,661.
De Gray, Richard J. 3,033,663.
De Gray, Richard J., and Scheible. 3,030,375.
Emrick, Donald D. 3,049,557.
Emrick, Donald D. 3,067,192.
Emrick, Donald D., and Darling. 3,044,998.
Fay, Philip S., Hook, Hughes, and Liao. 3,031,280.
Frazier, David. 3,024,978.
Grimes, William W. 3,061,561.
Hardman, Harley F., and Alford. 3,063,856.
Hook, Edwin O., and Tate. 3,060,009.
Howsmon, Wilfred B., Jr. 3,024,267.
Howsmon, Wilfred B., Jr. 3,056,840.
Idol, James D., Jr., and Foreman. 3,021,366.
Jackson, Warren, Jr., and Jones. 3,059,891.
Koopman, Herman H. 3,059,726.
Milberger, Ernest C. 3,050,546.
Ransom, George M. 3,048,428.
Stevko, Philip J. 3,064,470.
Strecker, Harold A. 3,024,203.
Veatch, Franklin, Alford, and Croft. 3,030,215.
Wade, Harry D., and Scheible. 3,049,261.
Standard Optical Mfg. Co. : *See*—
Okner, Luke. 3,029,697.
Standard Packaging Corp. : *See*—
Bolding, Hubert V. 3,050,231.
Bolding, Hubert V. 3,069,004.
Goodell, John D. 3,029,824.
Johnson, Clarence A. 3,023,938.
McGlynn, Walter J., Jr. 3,070,142.
Wistrand, John C. 3,022,924.
Standard Plastics, Inc. : *See*—
Weller, John J. 3,035,825.
Standard Products Co., The : *See*—
Brock, Henry W., Hooton, and Ojala. 3,053,306.
Lipschutz, Sidney, and Barnett. 3,065,894.
Reid, James. 3,067,455.
Reid, James S. 3,046,172.
Reid, James S. 3,066,091.
Reid, James S. 3,068,136.
Standard Railway Equipment Mfg. Co. : *See*—
Phillips, Earl A. 3,058,511.
Standard Register Co., The : *See*—
Davidson, John T., Georgen, and Fortune. 3,044,694.
Standard Research Consultants, Inc. : *See*—
Pelledeau, Maurice. 3,034,445.
Standard Screw Co. : *See*—
Corlett, Webster D., and Mackie. 3,034,386.
Corlett, Webster D., and Mackie. 3,060,785.
Standard Steel Corp. : *See*—
Freeman, Marvin B. 3,025,611.
Freeman, Marvin B. 3,039,747.
Standard Steel Works, Inc. : *See*—
Kordes, Myron G. 3,062,398.
Standard-Thomson Corp. : *See*—
Baker, William E. 3,041,567.
Hoffmann, Johannes T. and K. 3,037,336.
Wood, Thomas M. N. 3,015,354.
Woods, John E. 3,045,918.
Standard Tool and Mfg. Co. : *See*—
Zilahy, Edward Z. 3,018,006.
Standard Ultramarine & Color Co. : *See*—
Moser, Frank H., and Stepp. 3,024,247.
Rhodes, William H. 3,021,191.
Standard-Vacuum Oil Co. : *See*—
Stolle, Donald E. 3,029,522.
Standing, Charles A., and H. H. Bailey. Trailer with steerable wheels. 3,044,795, 7–17–62, Cl. 280—81.
Standish, Norman W. : *See*—
Bachman, Gustave B., and Standish. 3,037,061.

Standley, Henderson B. Motor vehicle seat head rest. 3,042,450, 7–3–62, Cl. 297—399.

Standley, Wendell E.: *See*—
Nigrelli, Biagio, Standley, and R. B. and J. I. Wittmann. 3,053,025.
Nigrelli, Biagio J., Standley, Wittmann, and Ferraro. 3,034,270.

Standring, Edgar J.: *See*—
Abel, Edmund, Jr., and Standring. 3,040,640.

Stanek, Eldon E. Adjustable fishing float. 3,037,319, 6–5–62, Cl. 43—44.95.

Stanek, Mark J., to Union Carbide Corp. Polymerization process of polar vinyl monomers with vanadyl diketones as catalysts. 3,062,797, 11–6–62, Cl. 260—89.1.

Stanfield, William G.: *See*—
Redmond, William G., and Stanfield. 3,060,362.

Stanfill, John M. Means for clamping a signal circuit antenna cable to a railroad rail. 3,059,884, 10–23–62, Cl. 248—68.

Stanford, Evelyn C., to Mine Safety Appliances Co. Determination of carbon dioxide. 3,068,073, 12–11–62, Cl. 23—232.

Stanford, George W., and W. R. Partridge, to The M. W. Kellogg Co. Combined isomerization and reforming process. 3,018,244, 1–23–62, Cl. 208—79.

Stanford, Warren E., and D. D. Miller, to Spencer Chemical Co. Process and composition for inhibiting corrosion of metals. 3,033,670, 5–8–62, Cl. 71—59.

Stanforth, Donald R.: *See*—
Brough, Wayne S., and Stanforth. 3,063,165.

Stange, Charles W., and H. R. Smith. Coin-controlled shopping bag dispenser. 3,051,286, 8–28–62, Cl. 194—10.

Stange, Hugo, to Olin Mathieson Chemical Corp. Preparation of trialkyl borates from sodium pentaborate or borax. 3,020,308, 2–6–62, Cl. 260—462.

Stange, Hugo, to Olin Mathieson Chemical Corp. Stabilization of diboranecacetylene liquid reaction products. 3,030,418, 4–17–62, Cl. 260—606.5.

Stange, Hugo, to FMC Corp. Novel phosphorus compounds. 3,060,008, 10–23–62, Cl. 44—69.

Stange, Klaus K., and R. D. Durand, to International Business Machines Corp. Power stacker. 3,064,969, 11–20–62, Cl. 271—71.

Stanger, Walter E., to General Electric Co. Retractable flange coupling unit. 3,019,036, 1–30–62, Cl. 285—18.

Stanger, Walter E., to General Electric Co. Captive nut with bolt grinding means. 3,053,357, 9–11–62, Cl. 189—36.

Stangl, Johann M. Decorated ceramic ware. 3,060,610, 10–30–62, Cl. 41—26.

Stanhope, Richard D., and L. A. Small, to American Metal Products Co. Method of bonding heat-hardenable backing materials to woven low friction materials. 3,055,788, 9–25–62, Cl. 156—247.

Stanier, Andrew F.: *See*—
Holt, William. 3,035,909.

Staniforth, Eric: *See*—
Hargreaves, Derek B., and Staniforth. 3,049,851.

Stanik, John: *See*—
Dodge, Harry G. 3,050,757.

Stanimir, William, to Victoria Precision Works Co. Ltd. Child's collapsible rocking chair. 3,047,333, 7–31–62, Cl. 297—32.

Stanish, Edward S., to Abbott Laboratories. Effervescent sweetening tablet. 3,061,445, 10–30–62, Cl. 99—141.

Stanko, George L., to Abbott Laboratories. Stable isoproteronol compositions. 3,039,929, 6–19–62, Cl. 167—65.

Stankowski, Edward S.: *See*—
Conti, Girard N., and Stankowski. 3,067,709.

Stanley, Allen C.: *See*—
McCarty, George W., and Stanley. 3,045,725.

Stanley, Chester A.: *See*—
Levey, Le Roy D., and Stanley. 3,069,774.

Stanley, Edward W.: *See*—
Anderson, Charles U., and Stanley. 3,015,266.

Stanley, Frederic R., ¼ to Martindale Electric Co. Ltd. Sanitary masks. 3,033,200, 5–8–62, Cl. 128—146.

Stanley, Harry T., to Westinghouse Electric Corp. Color television apparatus. 3,018,401, 1–23–62, Cl. 313—85.

Stanley, Henry: *See*—
Schoenberg, Albert I., Fertig, and Stanley. 3,059,024.

Stanley Home Products, Inc.: *See*—
Le Febvre, Alfred L., Johnson, and Fuller. 3,032,796.

Stanley, John E., to Duo-Flex Corp. Demountable accoustical ceiling. 3,032,833, 5–8–62, Cl. 20—4.

Stanley, John E., to Duo-Flex Corp. Demountable acoustical ceiling. 3,053,359, 9–11–62, Cl. 189—85.

Stanley, John S.: *See*—
Radley, Jack A., Stanley, and Smith. 3,056,644.

Stanley, Lester N.: *See*—
Posselt, Frederick W., and Stanley. 3,029,122.

Stanley, Mary E. Cake platters and packaging means therefor. 3,062,374, 11–6–62, Cl. 206—65.

Stanley, Norman C.: *See*—
Huff, O. C., and Stanley. 3,048,280.
Huff, O. C., and Stanley. 3,055,695.

Stanley, Oscar M. Check-out counters. 3,025,651, 3–20–62, Cl. 53—384.

Stanley, Oscar M. Supermarket cart. 3,039,783, 6–19–62, Cl. 280—33.99.

Stanley, Peter J., and L. S. Tillery, to Clayton Mark & Co. Centrifugal jet pump. 3,063,377, 11–13–62, Cl. 103—113.

Stanley, Peter P.: *See*—
Johansen, John V., and Stanley. 3,052,073.

Stanley, Robert A., and A. C. Bluestein, to Anaconda Wire & Cable Co. Shielded electric cable. 3,060,261, 10–23–62, Cl. 174—120.

Stanley, Stanley J., to Stanley Supply Co., Inc. Means and methods for packaging surgical gloves. 3,024,900, 3–13–62, Cl. 206—7.

Stanley Supply Co., Inc.: *See*—
Stanley, Stanley J. 3,024,900.

Stanley, Thomas A., to Imperial Chemical Industries Ltd. Extrusion of organic thermoplastic polymeric materials. 3,035,303, 5–22–62, Cl. 18—12.

Stanley, Wallace A.: *See*—
Heller, Robert M., and Stanley. 3,040,286.

Stanley, Wallace A., to Watts Electric & Mfg. Co. Connector structure. 3,040,285, 6–19–62, Cl. 339—64.

Stanley, William G.: *See*—
Proell, Wayne A., and Stanley. 3,044,912.

Stanley, Works: *See*—
Bobrowski, Louis G. 3,047,920.
Bruning, William E. 3,025,804.
Bruning, William E. 3,052,292.
Ford, Barton H. 3,025,907.
Ford, Barton H. 3,032,453.
Ford, Barton H. 3,063,498.
Ford, Barton H. and M. J. 3,028,981.
Ford, Michael J. 3,025,805.
Ford, Michael J. and B. H. 3,042,112.
Ford, Michael J. and B. H. 3,025,908.
Giannini, Joseph M., Sr. 3,061,870.
Haigis, Russell J., and Stowell. 3,042,508.
Higbee, Earl V. 3,017,908.
Johnson, Kenneth M., and MacFarlane. 3,041,098.
Kraut, Herman G. 3,031,072.
March, Joseph F. 3,055,108.
Martens, Harry H. 3,023,909.
Murphy, Clifford F. 3,051,318.
Reiss, Edmund F. 3,031,220.
Schätzschock, Adolf, and Weitzl. 3,016,600.
West, Robert F., and Robinson. 3,040,792.

Stanly, Henry J., to Metalwash Machinery Co. Spraying booth. 3,018,847, 1–30–62, Cl. 183—22.

Stannage, William: *See*—
Pearce, Thomas J. P., and Stannage. 3,063,936.

Stannard, Forrest B. Method of making valved bags from extruded thermoplastic materials. 3,051,605, 8–28–62, Cl. 156—196.

Stanray Corp.: *See*—
Allen, John W. 3,019,930.
Allen, John W. 3,020,059.
Allen, John W. 3,063,675.
Ford, Michael J. 3,021,897.
Fraenkel, Stephen J. 3,051,458.
Fraenkel, Stephen J. 3,059,288.
Lichti, Robert D. 3,034,372.
Moore, Herbert C. 3,038,185.
Phillips, Earl A. 3,037,726.

Stansbury, Benjamin H., Jr., to Hough Mfg. Corp. Folding doors and the like and mounting means therefor. 3,065,786, 11–27–62, Cl. 160—84.

Stansbury, Benjamin H., Jr., and W. D. Teague, Jr., to Columbus Plastic Products, Inc. Tableware drainer. 3,027,041, 3–27–62, Cl. 220—21.

Stansbury, Harry A., Jr.: *See*—
Cox, Eugene F., Manning, and Stansbury. 3,069,468.
Guest, Howard R., Adams, and Stansbury. 3,043,850.

Stansbury, Harry A., Jr., and H. R. Guest, to Union Carbide Corp. Long chain alkoxy diamines. 3,023,243, 2–27–62, Cl. 260—404.

Stansbury, Harry A., Jr., and H. R. Guest, to Union Carbide Corp. Preparation of alpha-ketoesters. 3,048,622, 8–7–62, Cl. 260—483.

Stansbury, Harry A., Jr., and D. T. Manning, to Union Carbide Corp. Process for producing 1,8-dioximino-4,7-methano-3a,4,7,7a-tetrahydroindene. 3,068,287, 12–11–62, Cl. 260—566.

Stansbury, John G.: *See*—
Clapp, Robert J., Latham, and Stansbury. Re. 25,202.
Stansbury, Roy E.: *See*—
Goodhue, Coyle D., Louthan, and Stansbury. 3,060,081.
Mahan, John E., and Stansbury. 3,067,091.

Stansell, Alpheus F.: *See*—
Boyden, Robert E., Scozzafava, and Stansell. 3,023,953.

Stant Mfg. Co., Inc.: *See*—
Friend, Dawson. 3,067,907.
Johnson, Glen A. 3,035,435.
Johnson, Glen A. 3,035,436.
Rodgers, Robert E. 3,053,408.

Stanton, Austin N., to Varo, Inc. Acoustic airspeed indicator. 3,028,578, 4–3–62, Cl. 340—1.

Stanton, Austin N., to Varo, Inc. Headgear mounted cathode ray tube and binocular viewing device. 3,059,519, 10–23–62, Cl. 88—1.

Stanton, Courtland C.: *See*—
Shand, Errol B., and Stanton. 3,063,267.

Stanton, Courtland C., to Corning Glass Works. Pipe coupling for connecting pipe sections of diverse size. 3,065,000, 11–20–62, Cl. 285—177.

Stanton, Edward W., and K. Perkins, to The Singer Mfg. Co. Carrying case cover for sewing machines. 3,050,899, 8–28–62, Cl. 45—68.2.

Stanton, George E., to The Bendix Corp. Combination retracting mechanism and wear indicator. 3,018,852, 1–30–62, Cl. 188—72.

Stanton, George E., to The Bendix Corp. Combination adjuster and reset mechanism. 3,032,144, 5–1–62, Cl. 188—72.

Stanton, George W., and T. G. Traylor, to The Dow Chemical Co. Compositions comprising graft copolymers of n-vinyl lactam monomers on acrylonitrile polymer substrates, and method of making same. 3,022,264, 2–20–62, Cl. 260—45.5.

Stanton, George W., and T. G. Traylor, to The Dow Chemical Co. Compositions comprising graft copolymers of certain aminated alkenyl aromatic monomers on acrylonitrile polymer substrates and method of making. 3,022,265, 2–20–62, Cl. 260—45.5.

Stanton, George W., and T. G. Traylor, to The Dow Chemical Co. N-vinyl-3-morpholinone-graft copolymer and method of preparing same. 3,026,292, 3–20–62, Cl. 260—45.5.

Stanton, George W., and T. G. Traylor, to The Dow Chemical Co. Compositions consisting essentially of graft copolymers of vinyl pyridine monomers on acrylonitrile polymers and method of preparing same. 3,048,561, 8–7–62, Cl. 260—45.5.

Stanton, George W., and T. G. Traylor, to The Dow Chemical Co. Method of making graft copolymer of vinyl lactam monomer on polyolefin substrate, composition containing same, and article thereof. 3,049,507, 8–14–62, Cl. 260—45.5.

Stanton, George W., and T. G. Traylor, to The Dow Chemical Co. Graft copolymer of azotic monomer on polyolefin substrate, article thereof and method of making same. 3,049,508, 8–14–62, Cl. 260—45.5.

Stanton, George W., and T. G. Traylor, to The Dow Chemical Co. Compositions comprising graft copolymers of aminated acrylate and methacrylate monomers on acrylonitrile polymers and method of preparing same. 3,050,498, 8–21–62, Cl. 260—45.5.

Stanton, George W., and T. G. Traylor, to The Dow Chemical Co. Graft copolymers of N-vinyl-3-morpholinone on polyolefin substrates and method of making same. 3,058,950, 10–16–62, Cl. 260—45.5.

Stanton, Leo F.: *See*—
Dorosz, Adolph S., and Stanton. 3,044,086.
Dorosz, Adolph S., and Stanton. 3,048,862.

Stanton, Lon. Fletching jig for arrows. 3,024,017, 3–6–62, Cl. 269—38.

Stanton, Norman C. Upholstered seating and furniture. 3,070,402, 12–25–62, Cl. 297—421.

Stanton, Robert J., to American Machine & Foundry Co. Tube welding apparatus. 3,054,883, 9–18–62, Cl. 219—65.

Stanton, Robert L., to American Mfg. Co., Inc. Synthetic rope structure. 3,026,669, 3–27–62, Cl. 57—140.

Stanton, Robert L., and W. H. Myers, to Jones & Laughlin Steel Corp. Wire rope fitting. 3,032,846, 5–8–62, Cl. 24—123.

Stanton, Walter O., to Pickering & Co., Inc. Multiple coil electromagnetic sound reproducer. 3,031,536, 4–24–62, Cl. 179—100.41.

Stanton, Walter O., to Pickering & Co., Inc. Stereophonic phonograph pick-up device. 3,067,295, 12–4–62, Cl. 179—100.41.

Stanulis, Leonard M., to Whirlpool Corp. Ice maker. 3,055,189, 9–25–62, Cl. 62—353.

Stanwood, David A.: *See*—
Prizler, Paul D., and Stanwood. 3,065,820.

Stanwood Industries Inc.: *See*—
Van Moss, John H., Jr., and Waller. 3,049,265.

Stanzel, Victor. Remotely powered propulsion and control mechanism for model aircraft. 3,018,585, 1–30–62, Cl. 46—77.

Stanzel, Victor. Remote control propulsion and steering mechanism for model watercraft. 3,043,052, 7–10–62, Cl. 46—243.

Stanzel, Victor. Model aircraft. 3,045,391, 7–24–62, Cl. 46—78.

Stapleford, Leonard E., and A. M. Halley, to James Halley & Sons Ltd. Rotary photogravure printing apparatus. 3,027,831, 4–3–62, Cl. 101—247.

Staples, Charles F. Surface indicators. 3,019,639, 2–6–62, Cl. 73—95.

Staples, Crawford E., to Westinghouse Air Brake Co. High shunting sensitivity track circuits. 3,015,723, 1–2–62, Cl. 246—34.

Staples, Crawford E., to Westinghouse Air Brake Co. Code detecting apparatus. 3,046,454, 7–24–62, Cl. 317—134.

Staples, Ernest L., Jr.: *See*—
Korbitz, Norman D., and Staples. 3,032,941.

Staples, Gerald E. Pecan cracker. 3,059,678, 10–23–62, Cl. 146—11.

Staples, John P., to United States of America, Navy. Overload protection circuit. 3,049,632, 8–14–62, Cl. 307—88.5.

Staples, Lynn W.: *See*—
Strout, Raymond D., and Staples. 3,024,016.

Staples, Lynn W., and R. D. Strout, to Saginaw Wire Products, Inc. Spring structures particularly for vehicle seats and backs. 3,039,763, 6–19–62, Cl. 267—107.

Staples, Paul R., to Reynolds Metals Co. Differential expansion of pressure welded passageway panel. 3,015,878, 1–9–62, Cl. 29—157.3.

Staples, Stanley F.: *See*—
Reddle, Victor L., Hoppmann, and Staples. 3,040,622.

Stapleton, James M., to United States Steel Corp. Method and apparatus for cooling sinter. 3,057,715, 10–9–62, Cl. 75—5.

Stapleton, John M.: *See*—
Ross, Wilford H., Jr., Maloney, and Stapleton. 3,060,066.

Stapleton, Robert E.: *See*—
Pappis, James, and Stapleton. 3,056,938.

Stapling Machines Co.: *See*—
Fitch, Robert B. 3,039,381.
Hayward, Leroy S. 3,028,995.
Hayward, Leroy S., Kingsley, and Horvath. 3,056,435.
Kingsley, David G. 3,025,892.
McCrea, Joseph. 3,051,344.
Rice, Richard L., and Riker. 3,032,074.
Voorhees, Thomas L. 3,018,482.

Star Cutter Co.: *See*—
Larry, George A. 3,054,308.
Windsor, Meredith M., and Lincoln. 3,021,735.

Star Expansion Industries Corp.: *See*—
Bell, Lewis W., Eager, and Maynard. 3,055,008.
Bell, Walter. 3,063,669.

Star Machine & Tool Co.: *See*—
Wisti, Morris D. 3,060,644.

Star Shade Cutter Co.: *See*—
Gast, Albert K., Jr. 3,064,452.

Starbuck, Richard P.: *See*—
Arnberg, Benjamin T., Braendlein, and Starbuck. 3,029,601.

Starcher, Paul S.: *See*—
Kilsheimer, John R., Phillips, and Starcher. 3,043,813.
Phillips, Benjamin, and Starcher. 3,018,294.
Phillips, Benjamin, and Starcher. 3,041,357.
Phillips, Benjamin, and Starcher. 3,052,692.
Phillips, Benjamin, and Starcher. 3,056,806.
Phillips, Benjamin, and Starcher. 3,063,949.
Phillips, Benjamin, and Starcher. 3,064,008.
Tinsley, Samuel W., Starcher, McGary, and Patrick. 3,019,202.
Tinsley, Samuel W., Starcher, McGary, and Patrick. 3,035,001.

Starck, Arthur M. Sport practice device. 3,018,109, 1–23–62, Cl. 273—186.

Starck, Arthur M. Sash balance device. 3,026,560, 3–27–62. Cl. 16—197.

Starck, Clemens B., C. F. Smith, and R. J. Hellmann, to Eastman Kodak Co. Polyester film elements and subbing compositions therefor. 3,053,661, 9–11–62, Cl. 96—87.

Starck, Noel L. Safeguard device for automotive electrical systems. 3,021,429, 2–13–62, Cl. 307—10.

Starck, Werner, K.-H. Kahrs, A. Kuhlkamp, and W. Ehmann, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for preparing pure polyvinyl alcohol. 3,050,503, 8–21–62, Cl. 260—91.3.

Starck, Werner, F. Rochlitz, H. Vilcsek, and J. Winter, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Phosphorus-containing polyesters and process for their manufacture. 3,058,935, 10–16–62, Cl. 260—22.

Starck, William A. Dispensers for ice cream or the like. 3,046,912, 7–31–62, Cl. 107—48.

Starcosa Machinen- und Apparatebau G.m.b.H.: *See*—
Schmiedel, Ludwig. 3,018,895.
Schmiedel, Ludwig. 3,040,893.

Stardust, Inc.: *See*—
Herman, Bernard. 3,066,675.

Stargardter, Hans, to General Electric Co. Fluid-flow machinery blading. 3,044,746, 7–17–62, Cl. 253—77.

Sta-Rite Products, Inc.: *See*—
Boyd, Clinton A. 3,041,977.

Stark, Adolf: *See*—
Flaig, Heinrich, and Stark. 3,067,815.

Stark, Ernst: *See*—
Keicher, Georg, and Stark. 3,055,863.

Stark, Forest G., to Art Metal, Inc. Adjustable foot device. 3,036,401, 5–29–62, Cl. 45—139.

Stark, Frank H., to Rolls-Royce Ltd. Turbine and compressor blades. 3,044,745, 7–17–62, Cl. 253—39.15.

Stark, Fred J., to Custom Polymers, Inc. Coating compositions. 3,051,673, 8–28–62, Cl. 260—28.5.

Stark, Hans C. Method of preparing $N^2,N^{4'}$-alkylene-$N^1,N^{1'}$-alkylene-bis-2-aminoquinaldinium-dihalides and resultant products. 3,027,378, 3–27–62, Cl. 260—286.

Stark, Helmuth, to Hoesch Aktiengesellschaft. Adjustable shock absorber for automotive vehicles. 3,063,518, 11–13–62, Cl. 188—88.

Stark, Howard J. Low density cellular explosive foam. 3,049,454, 8–14–62, Cl. 149—92.

Stark, John B.: *See*—
Goodban, Alan E., and Stark. 3,047,430.

Stark, John B., to United States of America, Agriculture. Separation of nitrogenous organic compounds. 3,015,655, 1–2–62, Cl. 260—211.5.

Stark, Lawrence. Pupillometer. 3,036,568, 5–29–62, Cl. 128—2.

Stark, Louis E., to Union Carbide Corp. Electric arc welding method. 3,047,708, 7–31–62, Cl. 219—74.

Stark, Martin H. Staggered ply tube body. 3,064,544, 11–20–62, Cl. 93—94.

Stark, Robert A.: *See*—
Carmichael, Mead S., Jr., and Stark. 3,033,584.

Stark, William J.: *See*—
Foster, Paul H., and Stark. 3,060,404.

Starkie, David, to English Rose Ltd. Method of producing crimped thermoplastic yarns. 3,065,519, 11–27–62, Cl. 28—72.

Star-Kist Foods, Inc.: *See*—
Erickson, Reginald T. 3,050,403.
Starkl, Anton A., 50% to L. Sani. Toy parachute. 3,055,141, 9–25–62, Cl. 46—86.
Starks, Ernest E., ½ to J. L. McAtee. Artery graft and method of producing artery grafts. 3,029,819, 4–17–62, Cl. 128—334.
Starline, Inc.: *See*—
Ferris, Robert G. 3,019,763.
Ferris, Robert G. 3,069,770.
Ferris, Robert G., and Yuenger. 3,035,874.
Starmer, Roy, and J. R. Emmett, to Richardsons, Westgarth & Co. Ltd. Steam generating plants. 3,062,194, 11–6–62, Cl. 122—1.
Starn, Roy E., to E. I. du Pont de Nemours and Co. Bleach fast reactive dyes. 3,040,022, 6–19–62, Cl. 260—153.
Starn, Roy E., Jr.: *See*—
Gale, Donald J., and Starn. 3,027,362.
Starn, Roy E., Jr., to E. I. du Pont de Nemours, and Co. Fiber-reactive polymeric azo dyes. 3,027,361, 3–27–62, Cl. 260—153.
Starnes, Charles O., W. N. Ferguson, and W. J. Pressley. Doffer comb apparatus for carding machine. 3,061,890, 11–6–62, Cl. 19—106.
Starnes, Earl W. Process and apparatus for reducing the breaking forces on a ballooning strand of yarn or the like. 3,060,670, 10–30–62, Cl. 57—58.83.
Starnes, Earl W. Twister for fiber attenuating apparatus. 3,064,413, 11–20–62, Cl. 57—58.59.
Starnes, Earl W. Apparatus for moving layers of material from one station to another. 3,064,968, 11–20–62, Cl. 271—19.
Starnes, Jesse B., P. E. Loveday, and R. R. Carney, to Union Carbide Corp. Production of cold refrigerant gas. 3,037,-360, 6–5–62, Cl. 62—97.
Staron, Edward: *See*—
Hall, Merchand B., Anderson, and Staron. 3,021,876.
Starp, Franz W. R.: *See*—
Rentschler, Waldemar T., and Starp. 3,062,112.
Rentschler, Waldemar T., and Starp. 3,068,768.
Starp, Franz W. R., to Alfred Gauthier G.m.b.H. Photographic camera. 3,059,559, 10–23–62, Cl. 95—64.
Starp, Franz W. R., to Alfred Gauthier, G.m.b.H. One-eye mirror-type reflex camera having intra-lens shutter. 3,062,-113, 11–6–62, Cl. 95—42.
Starr, Albert C. Auxiliary door for a boxcar. 3,039,525, 6–19–62, Cl. 160—40.
Starr, Harry E.: *See*—
Arnett, Samuel E., and Starr. 3,018,621.
Starr, James E., to The Budd Co. Compensation of strain gauge transducer non-linearity. 3,034,346, 5–15–62, Cl. 73—141.
Starr, James E., to The Budd Co. Strain gauge bridge circuit arrangement, particularly for load cells. 3,034,347, 5–15–62, Cl. 73—141.
Starr, James E., to The Budd Co. Beam-diaphragm pressure load cell improvements. 3,035,240, 5–15–62, Cl. 338—4.
Starr, Leland E.: *See*—
Milani, Virgil I., McGill, and Starr. 3,049,043.
Starr, Ralph W., to Selma Trailer & Mfg. Co. Harvesting apparatus. 3,034,635, 5–15–62, Cl. 198—45.
Starr, Robert V.: *See*—
Yarrick, Charles J., and Starr. 3,070,682.
Starr, Samuel S.: *See*—
Wyckoff, Harold W., Oneal, and Starr. 3,066,366.
Starre, Gerrit, to North American Philips Co., Inc. Electric motor. 3,067,975, 11–6–62, Cl. 310—50.
Starrett, James R., to The Bauer Bros. Co. Digester. 3,070,-156, 12–25–62, Cl. 162—237.
Starrett, Richard H.: *See*—
Olmstead, Philip J., and Starrett. 3,037,458.
Starrs, Bernard A., to Olin Mathieson Chemical Corp. Molybdenum containing derivatives of 1-hydroxy-2-pyridine thiones and method of preparing same. 3,027,371, 3–27–62, Cl. 260—270.
Starrs, Bernard A., to Olin Mathieson Chemical Corp. Stannous chloride bis-(2-pyridyl-1-oxide) disulfide and method of preparing same. 3,027,372, 3–27–62, Cl. 260—270.
Starry, Raymond A.: *See*—
Somerville, Yaccarino, and Starry. 3,021,759.
Starwood Industries, Inc.: *See*—
Van Moss, John R., Jr., and Waller. 3,058,709.
Waller, Percy H. 3,038,417.
Stary, Walter E. Tube-expanding device. 3,016,944, 1–16–62, Cl. 153—82.
Starzec, Francis J.: *See*—
Murphy, Joseph E., and Starzec. 3,040,271.
Starzec, Francis J., and J. E. Murphy, to General Motors Corp. Transient responsive protection circuit. 3,048,718, 8–7–62, Cl. 307—93.
Starzec, Stanley J., to Automatic Electric Laboratories, Inc. Relay stablizer. 3,048,267, 8–7–62, Cl. 206—46.
Stasiuk, Mitchell D. Nipple piercing tool. 3,047,950, 8–7–62, Cl. 30—368.
Stasse, Henry L., to Allied Chemical Corp. Method for bonding gypsum to paper. 3,047,447, 7–31–62, Cl. 156—40.
Stasse, Roland. Engine powered wheelbarrow. 3,021,625, 2–20–62. Cl. 37—130.
Stastny, Edwin O.: *See*—
McMaster, Archie J., Lieberman, and Stastny. 3,054,-005.

State Industries: *See*—
McAfee, Clif. 3,033,511.
State of the Netherlands for the purposes of this Application Represented by the Board of Directors of the State Gas Concern, The: *See*—
Van Dijk, Adrianus. 3,045,614.
State University and the School of Mines, The: *See*—
Cooley, Albert M. 3,016,303.
States Batteries, Inc.: *See*—
Smith, Walton R., and Helper. 3,056,536.
Statham Instruments, Inc.: *See*—
Brown, George J. 3,058,350.
Brown, George J. 3,065,625.
Di Giovanni, Mario. 3,036,469.
Pegram, John B. 3,032,876.
Statham, Louis D. 3,038,344.
Statham, Louis D. 3,058,348.
Stedman, Cecil K. 3,033,972.
Statham, Louis D., to Statham Instruments, Inc. Combined angular and linear accelerometer. 3,038,344, 6–12–62, Cl. 73—504.
Statham, Louis D., to Statham Instruments, Inc. Transducer. 3,058,348, 10–16–62, Cl. 73—398.
Statler, Lowell. Overload spring. 3,033,590, 5–8–62, Cl. 280—124.
Stato A.G.: *See*—
Stauffer, Ferdinand B. 3,066,670.
Staton, Hubert. Container formed out of an inverted tire casing and a method therefor. 3,038,512, 6–12–62, Cl. 150—50.
Statsinger, Joseph, to American Bosch Arma Corp. Navigation apparatus. 3,023,617, 3–6–62, Cl. 73—178.
Staub, Alfred, to J. R. Geigy, A.-G. Aminoanthraquinonyl monoazo dyestuffs. 3,041,129, 6–26–62, Cl. 8—26.
Staub, Theodor. Recording instrument. 3,034,126, 5–8–62, Cl. 346—102.
Staubli & Co., Gebr.: *See*—
Stäubli, Heinrich H. 3,057,379.
Stäubli, Heinrich H., to Staubli & Co., Gebr. Dobbies. 3,057,-379, 10–9–62, Cl. 139—71.
Staudy, Julian L., and J. H. Koob, to Pennsalt Chemicals Corp. Method of dry cleaning and rendering fabrics water repellent. 3,057,748, 10–9–62, Cl. 117—66.
Stauder, Lawrence F., to The Bendix Corp. Linear rate generator. 3,024,374, 3–6–62, Cl. 310—15.
Staudt, Erwin, and P. Harter, to Eastman Kodak Co. Exposure control systems for photographic cameras. 3,033,089, 5–8–62, Cl. 95—10.
Stauffenberg, Walter H., to American Cyanamid Co. Paper containing pigment or filler. 3,021,257, 2–13–62, Cl. 162—162.
Stauffer Chemical Co.: *See*—
Beck, Thomas M., and Sorstokke. 3,068,267.
Cooper, Robert S. 3,035,896.
Curtis, Ralston, and Probandt. 3,063,824.
Davis, Robert G., Goldfarb, and Heiss. 3,025,139.
Davis, Robert G., Haimsohn, and Bashour. 3,025,138.
Fancher, Llewellyn W., and Baker. 3,039,863.
Fearing, Ralph B., and Walsh. 3,060,083.
Fearing, Ralph B., Walsh, and Brady. 3,020,198.
Fouch, Jasper F. 3,064,068.
Hanks, Charles W. 3,068,309.
Horning, Robert M., Kaznoff, and Heil. 3,066,010.
Lauck, Robert M., and Tucker. 3,041,177.
Maxwell, Richard C., and Stoffey. 3,018,216.
McCollough, Fred, Jr. 3,034,860.
Pitt, Harold M., and Bender. 3,026,361.
Price, Glenn R., Walsh, and Hallett. 3,070,493.
Schallis, Alvin. 3,025,144.
Schallis, Alvin. 3,039,858.
Smith, Hugh R., Jr. 3,040,112.
Smith, William E. 3,068,263.
Smith, William E., and Anderson. 3,041,240.
Steinhauer, Roger C. 3,034,919.
Tiles, Harry, and Antognini. 3,066,020.
Toy, Arthur D. F., and Blanch. 3,034,862.
Tucker, James W. 3,034,899.
Urfer, Allen D., and Jackson. 3,043,707.
Walsh, Edward N., and Brady. 3,034,951.
Stauffer, Dale A.: *See*—
Fancher, Otis E., Nichols, and Stauffer. 3,021,325.
Fancher, Otis E., and Stauffer. 3,042,496.
Stauffer, Ferdinand B., to Stato A.G. Hypodermic injection apparatus. 3,066,670, 12–4–62, Cl. 128—218.
Stauffer, Hans F., to Nordberg Mfg. Co. Grinding mill trunnion. 3,051,399, 8–28–62, Cl. 241—176.
Stauffer, Robert A., to National Research Corp. Apparatus and process for metallic vapor coating. 3,043,728, 7–10–62, Cl. 156—231.
Stauffer, Robert J., to Westinghouse Electric Corp. Packaging insert. 3,048,323, 8–7–62, Cl. 229—39.
Stauffer, William O., to Kaiser Aluminum & Chemical Corp. Apparatus for transfer of molten metal. 3,028,642, 4–10–62, Cl. 22—85.
Staunt, Martin. Control unit mountings for air driven dental handpieces. 3,036,804, 5–29–62, Cl. 248—228.
Staunt, Martin. Dental handpieces. 3,050,856, 8–28–62, Cl. 32—26.

Staunt, Martin. Foot operated speed control units and systems for air driven dental handpieces. 3,054,187, 9–18–62, Cl. 32—27.
Staunton, John J. J. : *See*—
Coleman, Edwin D., and Staunton. 3,023,664.
Staunton, John J. J., to Coleman Instruments, Inc. Method and flame generating apparatus for flame photometry. 3,015,983, 1–9–62, Cl. 88—14.
Staunton, John J. J., to Coleman Instruments, Inc. Diffraction grating having a plurality of blaze angles. 3,045,532, 7–24–62, Cl. 88—14.
Stauth, Samuel K., to Mayrath Co. Carriages for elevating conveyors. 3,038,591, 6–12–62, Cl. 198—233.
Stava, Louis F. : *See*—
Brown, John O., and Stava. 3,025,900.
Stavenau, Harold L., to Truth Tool Co. Casement window hinge-lock operator mechanism. 3,032,330, 5–1–62, Cl. 268—118.
Stavenau, Harold L., to Truth Tool Co. Bar type window operator. 3,064,965, 11–20–62, Cl. 268—109.
Stavenau, Harold L., to Truth Tool Co. Window operator. 3,064,966, 11–20–62, Cl. 268—109.
Staver Co. Inc., The : *See*—
Staver, Edward F. 3,028,444.
Staver, Edward F., to The Staver Co. Inc. Telescoping vacuum tube shield. 3,028,444, 4–3–62, Cl. 174—35.
Stavis, Gus, to General Precision, Inc. Coherent continuous wave doppler navigation system. 3,032,758, 5–1–62, Cl. 343—9.
Stavis, Gus, and R. Grossman, to General Precision, Inc. Frequency to simulated synchro output converter. 3,044,003, 7–10–62, Cl. 321—3.
Stavrolakis, James A. : *See*—
Day, Maurice J., and Stavrolakis. 3,038,817.
Stead, Zelma M. Head rest. 3,035,279, 5–22–62, Cl. 5—337.
Steadman, Thomas R., and P. R. Steyermark, to W. R. Grace & Co. Process for the preparation of diglycosylureas at reduced pressure. 3,020,273, 2–6–62, Cl. 260—211.5.
Steagall, William F., to Sperry Rand Corp. Serial binary adder. 3,022,007, 2–20–62, Cl. 235—176.
Steahly, George W. : *See*—
Hoel, Dean C., and Steahly. 3,069,383.
Stearman, Margie L. : *See*—
Stearman, Thomas O. and M. L. 3,028,645.
Stearman, Thomas O. and M. L. Tire chain connector. 3,028,645, 4–10–62, Cl. 24—68.
Stearn, George F., to The English Electric Co. Ltd. Insulation of high voltage transformers. 3,044,031, 7–10–62, Cl. 336—70.
Stearn, Richard A., to Drott Mfg. Corp. Trailer boat hoist. Re. 25,276, 10–30–62, Cl. 214—396.
Stearns, Carl L., and L. Ritter, to American Cyanamid Co. Sprayable composition. 3,069,319, 12–18–62, Cl. 167—58.
Stearns, Charles R. Removable vented spout. 3,042,270, 7–3–62, Cl. 222—484.
Stearns, Dick E. Electric pulse generator and control therefor. 3,056,088, 9–25–62, Cl. 328—68.
Stearns, James A. : *See*—
Grummitt, Oliver J., and Stearns. 3,023,117.
Stearns, Mary B., to General Dynamics Corp. Solar power source. 3,053,923, 9–11–62, Cl. 136—4.
Stearns, R. H. : *See*—
Hansen, Quinten A. 3,045,782.
Stearns, R. N. : *See*—
Hansen, Quinten A. 3,045,782.
Stearns-Rogers Mfg. Co. : *See*—
Brown, Ernest N. 3,034,669.
Deming, Herschel P. 3,058,018.
Stearns, Thomas H., to Sanders Associates, Inc. Solder connection for electrical circuits. 3,070,650, 12–25–62, Cl. 174—88.
Stearns, Thornton, to Kollsman Instrument Corp. Instrument lighting device. 3,040,168, 6–19–62, Cl. 240—2.1.
Steatit-Magnesia Aktiengesellschaft : *See*—
Eckert, Oskar. 3,024,196.
Zerbes, Georg. 3,036,009.
Steatite Research Corp. : *See*—
Albers-Schoenberg, Ernst. 3,019,189.
Stebbins, Mark C. Alarm device. 3,038,436, 6–12–62, Cl. 116—9.
Stecher, Edward B. Aviation fuel filter. 3,019,904, 2–6–62, Cl. 210—312.
Steck, Clyde O., to St. Regis Paper Co. Thermal insulating wall board and wall constructions thereof. 3,041,219, 6–26–62, Cl. 154—45.
Steckart, John R. Inner spring structure having one or more yieldable corners. 3,056,146, 10–2–62, Cl. 5—351.
Stecker, Herbert C. Germicides containing trifluoromethyl halogenated salicylanilides. 3,041,236, 6–26–62, Cl. 167—31.
Steckl, Rudolph : *See*—
Siemons, Willem J., Kelemen, and Steckl. 3,046,100.
Steckler, Robert : *See*—
Liebling, Raymond, and Steckler. 3,064,057.
Steckler, Robert, and J. Werner, to General Antline & Film Corp. Composition and process for binding glass fibers with an unsaturated polyester, poly-N-vinyl imidazole and a vinyl monomer. 3,018,267, 1–23–62, Cl. 260—45.4.
Steckler, Robert, J. Werner, and F. A. Hessel, to General Aniline & Film Corp. Bisymmetrical phenolic compounds. 3,061,650, 10–30–62, Cl. 260—611.
Stedfeld, Rowland L., to General Motors Corp. Lightweight engine. 3,067,928, 12–11–62, Cl. 230—116.
Steding, Jacob A. : *See*—
Van der Meer, Bernardus F. J., and Steding. 3,055,706.
Stedman, Cecil K., to United States of America, Navy. Homing system for torpedo. 3,021,807, 2–20–62, Cl. 114—23.
Stedman, Cecil K., to Statham Instruments, Inc. Pressure welding apparatus and method. 3,033,972, 5–8–62, Cl. 219—74.
Stedman, Cecil K. Motion sensing device. 3,065,639, 11–27–62, Cl. 73—515.
Stedman Foundry and Machine Co., Inc. : *See*—
Perrine, Paul M. 3,028,105.
Stedman, Harold F. : *See*—
Cowles, Roderick J., and Stedman. 3,037,878.
Stedman, Hubert Q., Jr., and A. Danoras, to Weston Hydraulics, Ltd. Torque motor with null balance. 3,058,038, 10–9–62, Cl. 317—177.
Stedman, Russell F., to Universal Oil Products Co. Refining of hydrocarbons. 3,023,160, 2–27–62, Cl. 208—240.
Steede, Otho G., to The Lewis Engineering & Mfg. Co. Machine for applying spiral stripes to tubular members. 3,028,803, 4–10–62, Cl. 101—124.
Steel Co. of Canada Ltd., The : *See*—
Kelday, Roy M., and Hayden. 3,038,592.
Sibakin, George, and Audette. 3,029,141.
Steel Heddle Mfg. Co. : *See*—
Kaufmann, Frank H. 3,015,346.
Kaufmann, John J. 3,047,029.
Kaufmann, John J. 3,058,495.
Kaufmann, John J., Jr. 3,015,347.
Steel, John F., to Kota Products Inc. Window. 3,040,850, 6–26–62, Cl. 189—62.
Steel Products Engineering Co., The : *See*—
Glasgow, James S., and Kerr. 3,034,619.
Steel, Thomas : *See*—
Kent, Nelson H., and Steel. 3,051,436.
Steelcase, Inc. : *See*—
Bullock, Earle C. 3,028,975.
Pipe, John. 3,021,960.
Pipe, John. 3,050,348.
Pipe, John. 3,065,038.
Steel City Industries, Inc. : *See*—
Cook, Raymond D., and Lang. 3,021,581.
Cook, Raymond D., and Lang. 3,023,920.
Cook, Raymond D., and Lang. 3,025,338.
Cook, Raymond D., and Lang. 3,066,904.
Sefton, Robert C. 3,042,681.
Steele, Alan E., to United States of America, Air Force. Jet engine thrust augmentation system. 3,017,747, 1–23–62, Cl. 60—35.6.
Steele, Carlton A. : *See*—
Pitts, Thomas E., and Steele. 3,048,349.
Steele, Carlton A. Yarn guide with delayed yarn release for winding machines. 3,055,602, 9–25–62, Cl. 242—18.
Steele, Floyd G., to Northrop Corp. Superconductive resonant circuit and accelerometer. 3,015,960, 1–9–62, Cl. 73—517.
Steele, Floyd G., to Digital Control Systems, Inc. Methods and apparatus for differentiating difunction signal trains. 3,021,062, 2–13–62, Cl. 235—152.
Steele, Floyd G., to Digital Control Systems, Inc. Ordered time interval computing systems. 3,021,064, 2–13–62, Cl. 235—154.
Steele, Floyd G., to Digital Control Systems, Inc. Difunction computing elements. 3,022,949, 2–27–62, Cl. 235—152.
Steele, Floyd G., to Digital Control Systems, Inc. Electronic digital differential analyzer. 3,027,078, 3–27–62, Cl. 235—152.
Steele, Floyd G., to Digital Control Systems, Inc. Electronic digital differential analyzer. 3,035,768, 5–22–62, Cl. 235—152.
Steele, Floyd G., to Digital Control Systems, Inc. Velocity quantizer. 3,045,912, 7–24–62, Cl. 235—151.
Steele, Floyd G., to Digital Control Systems, Inc. Incremental computing apparatus. 3,050,251, 8–21–62, Cl. 235—164.
Steele, Floyd G., to Digital Control Systems, Inc. Firing point locator system. 3,063,047, 11–6–62, Cl. 343—7.
Steele, Floyd G., to Digital Control Systems, Inc. Highly reliable rectifier unit. 3,069,562, 12–18–62, Cl. 307—88.5.
Steele, Gerald H., and R. J. Hickin, to Packaging Corp. of America. Article handling mechanism. 3,037,609, 6–5–62, Cl. 198—34.
Steele, Glen R., to Bathey Mfg. Co. Self-locking connection for structural members. 3,055,462, 9–25–62, Cl. 189—36.
Steele, Henry J., to Lucas Joseph (Industries) Ltd. Gas lubricated bearings. 3,058,785, 10–16–62, Cl. 308—9.
Steele, Howard L. : *See*—
Prasse, Herbert F., and Steele. 3,039,397.
Steele, James G., and W. H. McKee, to Kemp Products Ltd. Roll tape dispenser and container. 3,069,055, 12–18–62, Cl. 225—47.
Steele, James W. : *See*—
Hopkins, Thomas R., and Steele. 3,016,375.
Steele, Martin C. : *See*—
Gold, Robert D., and Steele. 3,029,353.
Steele, Martin C., to Radio Corp. of America. Semiconductor cryistor circuit. 3,042,852, 7–3–62, Cl. 323—94.
Steele, Martin C., to Radio Corp. of America. Semiconductor electrical apparatus. 3,042,853, 7–3–62, Cl. 323—94.
Steele, Martin C., and A. L. Eichenbaum, to Radio Corp. of America. Harmonic generator. 3,064,210, 11–13–62, Cl. 332—52.

Steele, Maurice G., to Rome Cable Corp. Rolling contact measuring device. 3,015,165, 1–2–62, Cl. 33—134.

Steele, Oliver P., III: *See*—
Fields, Charles V., and Steele. 3,040,236.
Macha, Edward A., and Steele. 3,066,989.

Steele, Ralph R.: *See*—
Hayden, Ralph L., and Steele. 3,023,729.

Steele, Richard J. Cutting means for tubular material. 3,044,757, 7–17–62, Cl. 266—23.

Steele, Richard O.: *See*—
De Benneville, Peter L., and Steele. 3,024,080.

Steele, Roger C., to Hexcel Products Inc. Heat transfer panel. 3,018,087, 1–23–62, Cl. 257—1.

Steele, William E.: *See*—
Quade, Edward A., and Steele. 3,063,041.

Steelmade Inc.: *See*—
Sturrock, John C., and Shay. 3,029,980.

Steels Engineering Products Ltd.: *See*—
Hallsworth, Arnold. 3,033,401.
Hallsworth, Arnold. 3,061,127.

Steeman, Johannes W. M., to Stamicarbon N.V. Process of preparing cyclohexanone and cyclohexanol. 3,047,629, 7–31–62, Cl. 260—586.

Steeman, Johannes W. M., to Stamicarbon N.V. Process for preparing hexamethylenediamine. 3,056,837, 10–2–62, Cl. 260—586.

Steen, Charles L. Coupling for conductor cord plugs. 3,048,810, 8–7–62, Cl. 339—75.

Steen, Eugene S.: *See*—
Pankratz, A. J., Shoemaker, and Steen. 3,048,315.

Steen, Hans P., to Litton Systems, Inc. Stylus and support for electric recorders. 3,018,153, 1–23–62, Cl. 346—139.

Steen, Harford K., to Interstate Bag Co., Inc. Shopping bag with turned in edge. 3,023,946, 3–6–62, Cl. 229—54.

Steen, Harford K., to Interstate Bag Co., Inc. Shopping bag having reinforced top and bottom. 3,034,699, 5–15–62, Cl. 229—54.

Steen, Harry I.: *See*—
Bumpas, Troy D., Wheeler, Steen, and Bumpas. 3,031,-869.

Steen, William E., to A. O. Smith Corp. Variable ratio transmission. 3,024,665, 3–13–62, Cl. 74—198.

Steenbeck, Max, and W. Schimmel, to Wissenschaftlich-Technisches Buro fur Reaktorbau. Process for producing nuclear reactor fuel. 3,031,390, 4–24–62, Cl. 204—154.2.

Steenrod, Richard A., Jr.: *See*—
Emmerling, Anson A., Kaufman, Osborne, and Steenrod. 3,023,262.

Steenwerth, Charles L.: *See*—
Wentz, Richard K., and Steenwerth. 3,039,661.

Steepe, James P. Means for tandem operation of powered vehicles. 3,035,653, 5–22–62, Cl. 180—14.

Steer, Donald E., and J. W. Smith, to National Distillers and Chemical Corp. Side wall valves. 3,034,558, 5–15–62, Cl. 152—429.

Steever, Andrew B., to The Babcock & Wilcox Co. High pressure pulverized coal gasifier. 3,018,174, 1–23–62, Cl. 48—63.

Steeves, Harold W.: *See*—
Walter, Oscar, and Steeves. 3,021,935.

Steeves, Robert W.: *See*—
Baer, Charles A., Clough, and Steeves. 3,016,873.
Baer, Charles A., Clough, and Steeves. 3,063,865.
Cerych, John Z., Clough, and Steeves. 3,029,777.
Cerych, John Z., Clough, and Steeves. 3,065,958.

Steeves, Robert W., to National Research Corp. Vapor source and processes for vaporizing iron, nickel and copper. 3,063,-858, 11–13–62, Cl. 117—5.1.

Stefan, Russell O., and A. G. Lang. Flare gun. 3,044,360, 7–17–62, Cl. 89—1.

Stefanakis, William H. Reversible mirror and removable picture frame. 3,039,217, 6–19–62, Cl. 40—152.

Stefancin, Carl. Rotary engine. 3,034,484, 5–15–62, Cl. 121—53.

Stefanick, William F. Block making machine. 3,055,075, 9–25–62, Cl. 25—41.

Stefanini, Roberto: *See*—
Pagliarini, Pietro, Magri, and Stefanini. 3,062,853.

Stefano, Archibald M. Physical therapy machine. 3,062,204, 11–6–62, Cl. 128—25.

Stefanov, Boris, to Kauke & Co., Inc. Circuit for the conversion of amplitude pulses to time duration pulses. 3,053,-996, 9–11–62, Cl. 307—88.5.

Stefanovic, Milutin: *See*—
Muller, Georges, and Stefanovic. 3,022,324.

Stefanutti, Sergio. Vertical take off and landing aircraft. 3,037,721, 6–5–62, Cl. 244—7.

Steffen, Raymond A., to Champion Papers Inc. Paper and process for manufacture. 3,041,200, 6–26–62, Cl. 117—68.

Steffen, Vincent B. Apparatus for the storage and drying of grain. 3,044,182, 7–17–62, Cl. 34—50.

Steffens, Eugene W. Flow control valve. 3,017,903, 1–23–62, Cl. 138—45.

Steffensen, Otto: *See*—
Beyer-Olsen, Knut, and Steffensen. 3,020,669.

Steffensen, Percy L., to Bethlehem Steel Co. Feeder for pelletizing furnace. 3,063,582, 11–13–62, Cl. 214—18.

Stegelman, Albert F.: *See*—
Fox, Homer M., and Stegelman. 3,050,435.

Stegeman, Raymond F. E.: *See*—
McCulloch, Donald J., and Stegeman. 3,060,803.
O'Dea, Martin J., and Stegeman. 3,045,543.

Stegeman, Raymond F. E., to Bausch & Lomb Inc. Eyeshields. 3,049,716, 8–21–62, Cl. 2—14.

Stegeman, Raymond F. E., to Bausch & Lomb Inc. Ophthalmic mounting. 3,060,802, 10–30–62, Cl. 88—41.

Stegnik, Aaron J., and H. A. Wallenstrom, to Shwayder Bros., Inc. Safety device for punch presses and the like. 3,015,977, 1–9–62, Cl. 83—61.

Stegley, Brian J., and S. A. Pittard; said Pittard assor. to said Stegley. Windows. 3,022,547, 2–27–62, Cl. 20—52.2.

Steglich, Herbert H., to Zenith Radio Corp. Acoustical enclosures. 3,037,577, 6–5–62, Cl. 181—31.

Stegmaier, Hermann, to B. Gartner. Link closing machine having magazine loading clip. 3,020,704, 2–13–62, Cl. 59—1.

Stegman, Charles B. Pancake motor. 3,061,750, 10–30–62, Cl. 310—268.

Stegman, Ernst, to Arno H. Wirth Firma. Bending machine. 3,052,277, 9–4–62, Cl. 153—15.

Stegmeier, William J., and S. S. Di Bona. Hinged gate device. 3,068,981, 12–18–62, Cl. 193—10.

Stegner, Charles B.: *See*—
De Mott, Elmer G., Stegner, and Stolar. 3,026,478.

Stehle, Norman E., to United States of America, Navy. Air cooled fitting for duct or hose. 3,062,564, 11–6–62, Cl. 285—41.

Stehlin, Theodore A., to St-West, Inc. Piston valve. 3,062,-496, 11–6–62, Cl. 251—218.

Stehman, Harold E., and J. P. Wall. Combination outboard motor guard, dolly and boat seat. 3,041,084, 6–26–62, Cl. 280—47.24.

Steichele, Joseph, to SKF Kugellagerfabriken Gesellschaft mit beschrankter Haftung. Spindle drive arrangement for textile machines. 3,069,835, 12–25–62, Cl. 57—105.

Steichele, Joseph, G. Wendel, and K.-H. Breitenbach, to SKF Kugellagerfabriken Gesellschaft mit beschrankter Haftung. Spindle drive arrangement for textile machines. 3,025,658, 3–20–62, Cl. 57—105.

Steidinger, Donald J.: *See*—
Stratton, Edwin J. D., and Steidinger. 3,026,018.

Steidinger, Donald J., to Uarco, Inc. Gluing device. 3,033,-160, 5–8–62, Cl. 118—313.

Steidinger, Donald J., to Uarco, Inc. Continuous form stationery. 3,065,979, 11–27–62, Cl. 282—11.5.

Steidinger Gebr.: *See*—
Siegemund, Richard. 3,067,294.

Steidinger, K.G., Gebr.: *See*—
Zimmermann, Heinrich, and Hermann. 3,020,051.

Steiger A.G. Lithographie, Druckerei: *See*—
Blumer, Hans. 3,053,151.

Steiger, Robert. Control system for rectilinear knitting-machines. 3,053,065, 9–11–62, Cl. 66—154.

Steigerwald, Carl J., to The Fyle-National Co. Explosion proof pressure for motor starters and circuit breakers. 3,016,431, 1–9–62, Cl. 200—50.

Steigerwald, Karl H.: *See*—
Schleich, Fritz, and Steigerwald. 3,033,974.

Steigerwald, Karl H., to Carl Zeiss. Method for welding a cover plate to a structural part composed of strips of any shape. 3,016,449, 1–9–62, Cl. 219—117.

Steigerwald, Karl H. Reciprocating mold using a vacuum and pressure assist. 3,045,299, 7–24–62, Cl. 22—57.2.

Steigerwald, Karl H. Methods of effecting a high rate of heat transfer from a heated surface to a liquid. 3,056,-287, 10–2–62, Cl. 257—1.

Steigleder, Charles J.: *See*—
Grillon, August B., Holland, Pope, and Steigleder. 3,045,-619.

Steigleder, Johann H. Conveyors. 3,044,604, 7–17–62, Cl. 198—152.

Steiman, Wolf, and W. R. O'Donnell, to VCA Inc. Aerosol valve construction. 3,036,744, 5–29–62, Cl. 222—394.

Steimel, Robert M., to Barber-Greene Co. Rotary charging chute for aggregate feeding. 3,043,019, 7–10–62, Cl. 34—141.

Stein, Albert E. Wheel chock. 3,024,871, 3–13–62, Cl. 188—32.

Stein, Arnold B., to United States of America, Army. Integral missile tanks. 3,058,421, 10–16–62, Cl. 102—49.

Stein, Elmer L., to Eye-Beam Displays, Inc. Interacting shuffle display and leaflet. 3,023,929, 3–6–62, Cl. 221—47.

Stein, Elmer L., to Vibrate Corp. Flashing reflective display. 3,032,906, 5–8–62, Cl. 40—138.

Stein, Fred, Laboratories, Inc.: *See*—
Stein, Frederick W. 3,028,549.

Stein, Frederick W., to Fred Stein Laboratories, Inc. Test cell improvement. 3,028,549, 4–3–62, Cl. 324—61.

Stein, Friedrich: *See*—
Buschhorn, Walther, and Stein. 3,060,861.

Stein, Gerhard M., and T. R. Specht, to Westinghouse Electric Corp. Magnetic core structure. 3,069,643, 12–18–62, Cl. 336—217.

Stein, Jerome: *See*—
Reese, Henry W. 3,062,715.

Stein, John A.: *See*—
Curran, George W., and Stein. 3,024,586.

Stein, Joseph. Method of debonding a brake lining from a brake shoe. 3,058,870, 10–16–62, Cl. 156—344.

Stein, Joseph A., to Bacharach Industrial Instrument Co. Air filer gauge. 3,066,527, 12–4–62, Cl. 73—118.

Stein, June M. Climbing gaff. 3,025,927, 3–20–62, Cl. 182—221.

Stein, Louis : *See*—
Lipp, Donald, and Nash, 3,016,902.
Stein, Marcel. Device for the prevention of shutdown corrosion attacks in steam spaces and condensate recipients of steam installations. 3,050,040, 8–21–62, Cl. 122—4.
Stein, Max, to Sears, Roebuck and Co. Brassiere. 3,062,-216, 11–6–62, Cl. 128—467.
Stein, Robert R. : *See*—
Goldsmith, Morris, and Stein. 3,017,899.
Stein, Romar E. : *See*—
Nameth, James F., and Stein. 3,026,517.
Stein, Roy H. Roofing machine. 3,026,780, 3–27–62, Cl. 94—44.
Stein, Russell G., ½ to R. N. Dude. Hydraulic tool. 3,024,-524, 3–13–62, Cl. 29—252.
Stein, Russell G. Tool for inserting press-fit wrist pins. 3,031,744, 5–1–62, Cl. 29—283.
Stein, Werner : *See*—
Blaser, Bruno, Schirp, and Stein. 3,064,041.
Blaser, Bruno, Stein, and Schirp. 3,023,216.
Pietsch, Helmut, Kohler, and Stein. 3,052,647.
Schutt, Hartwig, and Stein. 3,023,234.
Waldmann, Hans, and Stein. 3,052,700.
Stein, Werner, H. Schirp, and H. Schütt, to Henkel & Cie G.m.b.H. Process for the introduction of carboxyl groups into aromatic compounds. 3,023,217, 2–27–62, Cl. 260—295.5.
Stein, Werner, and H. Hennig, to Henkel & Cie., G.m.b.H. Preparation of conversion products of ricinoleates. 3,031,-482, 4–24–62, Cl. 260—413.
Stein, William S. Rotatable advertising display. 3,031,784, 5–1–62, Cl. 40—128.
Stein, Wolfgang J., and S. Straniti, to Avco Corp. Torque meter. 3,045,479, 7–24–62, Cl. 73—136.
Steinbacher, Franz R. : *See*—
Ensrud, Alf F., Ochieano, and Steinbacher. 3,025,935.
Steinback G.m.b.H. : *See*—
Paul, Adolf. 3,047,460.
Steinbeck, John E. A. : *See*—
Katzenberger, Edward F., and Steinbeck. 3,050,277.
Steinberg, David J., to Metal Skin Corp. Protection of polished metallic surfaces. 3,054,708, 9–18–62, Cl. 156—1.
Steinberg, George M. : *See*—
Hackley, Brennie E., Jr., Poziomek, and Steinberg. 3,045,025.
Hackley, Brennie E., Jr., Poziomek, and Steinberg. 3,054,798.
Hackley, Brennie E., Jr., Poziomek, and Steinberg. 3,054,799.
Steinberg, Harold E. : *See*—
Simon, Albert E., Jr., and Steinberg. 3,041,693.
Steinberg, Herbert L. Closure. 3,034,680, 5–15–62, Cl. 220—27.
Steinberg, Howard : *See*—
Brotherton, Robert J., Willcockson, and Steinberg. 3,045,038.
English, William D., McCloskey, and Steinberg. 3,028,-368.
English, William D., Steinberg, and McCloskey. 3,068,-182.
McCloskey, Allen L., Taylor, and Steinberg. 3,044,943.
Steinberg, Howard, and D. L. Hunter, to United States Borax & Chemical Corp. Method for preparing 2,6-di-tert alkylphenoxyboron dihalides. 3,027,397, 3–27–62, Cl. 260—462.
Steinberg, Howard, D. L. Hunter, M. H. Pickard, and L. L. Petterson to United States Borax & Chemical Corp. Preparation of alkali metal salts of glycol monoborates. 3,048,-614, 8–7–62. Cl. 260—462.
Steinberg, Hyman A. Solar oven. 3,025,851, 3–20–62, Cl. 126—270.
Steinberg, Irwin : *See*—
Sarzin, Julius L., Teltscher, Steinberg, and Weisman. 3,025,470.
Steinberg, Jack, to Oscar Mayer & Co., Inc. Web feeding means. 3,055,246, 9–25–62, Cl. 83—74.
Steinberg, Marvin D. Preparation of tea beverage and products used therein. 3,047,396, 7–31–62, Cl. 99—77.
Steinberg, Marvin P. : *See*—
Nelson, Alvin I., McGill, and Steinberg. 3,063,849.
Steinberg, Max R. Power driven riding golf cart. 3,043,389, 7–10–62, Cl. 180—27.
Steinberg, Nathan G. : *See*—
Tishler, Max, Steinberg, and Hirschmann. 3,067,193.
Tishler, Max, Steinberg, and Hirschmann. 3,067,194.
Steinberg, Otho L. Lens adapter. 3,049,970, 8–21–62, Cl. 88—24.
Steinberg, Saac. Abrading machine. 3,061,982, 11–6–62, Cl. 51—128.
Steinberger, Bernard F. Circuit continuity tester. 3,063,006, 11–6–62, Cl. 324—51.
Steinberger, Rudolph R. Safety device for washing machines. 3,042,772, 7–3–62, Cl. 200—84.
Steinbock, Edmund A., R. Neiman, and E. A. Steinbock, Jr. ; said R. Neiman and said E. A. Steinbock, Jr., assor. to said E. A. Steinbock. Mold former. 3,064,309, 11–20–62, Cl. 18—34.1.
Steinbock, Edmund A., Jr. : *See*—
Steinbock, Edmund A., Neiman, and Steinbock, Jr. 3,064,309.
Steinbock, Edmund A., Jr. Electric furnaces. 3,025,380, 3–13–62, Cl. 219—35.
Steinbock G.m.b.H., Firma : *See*—
Loef, Jakob. 3,029,088.
Steinbrecher, Kenneth W. : *See*—
Beaudoin, Leonard W., Kraft, and Steinbrecher. 3,046,-228.
Steinbrenner, Hans, and E. Muller, to Daimler-Benz Aktiengesellschaft. Apparatus for analyzing noise produced by machines. 3,029,385, 4–10–62, Cl. 324—77.
Steinbruner, William J., to General Motors Corp. Control switch. 3,060,285, 10–23–62, Cl. 200—16.
Steinbuch, Karl, to International Standard Electric Corp. Automatic character recognition method. 3,066,224, 11–27–62, Cl. 250—219.
Steinbuch, Karl, R. Braun, and G. Merz, to International Standard Electric Corp. Telephone line supervisory system. 3,053,936, 9–11–62, Cl. 179—18.
Steinbuch, Karl W., and H. Endres, to International Standard Electric Corp. Automatic character recognition method. 3,069,079, 12–18–62, Cl. 235—61.11.
Steincamp, Sammy B., to Shell Oil Co. Fluid injection apparatus wells. 3,053,320, 9–11–62, Cl. 166—68.
Steindler, Martin J., to United States of America, Atomic Energy Commission. Process of treating uranium hexafluoride and plutonium hexafluoride mixtures with sulfur tetrafluoride to separate same. 3,046,089, 7–24–62, Cl. 23—14.5.
Steinel, Edwin H., E. C. Rowe, and R. W. Sinn. Protective device for lower extremities. 3,032,634, 5–1–62, Cl. 219—19.
Steinel, Edwin H. : *See*—
Rowe, Eugene C., Sinn, and Steinel. 3,055,557.
Rowe, Eugene C., Sinn, and Steinel. 3,055,558.
Steinemann, Willy : *See*—
Kraus, Wilhelm J., and Steinemann. 3,041,328.
Steinen, William F. Spray nozzle. 3,045,926, 7–24–62, Cl. 239—457.
Steinen, William F. Spray nozzle. 3,045,932, 7–24–62, Cl. 239—601.
Steinen, William F. Flat spray atomizing nozzle. 3,054,563, 9–18–62, Cl. 239—492.
Steinen, William F. Draft regulator. 3,070,312, 12–25–62, Cl. 236—45.
Steiner, Albert M., to Bromo Mint Co. Whirling toy. 3,046,-692, 7–31–62, Cl. 46—52.
Steiner, Emri H. Boat ventilator. 3,031,943, 5–1–62, Cl. 98—13.
Steiner, Fred A. : *See*—
Stroud, John M., Webster, Steiner, and Sessions. 3,041,-417.
Steiner, Frederick, to Ericsson Telephones Ltd. Electromagnetic audible signalling device. 3,054,997, 9–18–62, Cl. 340—392.
Steiner, Friedrich : *See*—
Steiner, Fritz. 3,025,522.
Steiner, Fritz, also known as Friedrich Steiner, to International Standard Electric Corp. Doppler-type direction-finder. 3,025,522, 3–13–62, Cl. 343—113.
Steiner, Fritz, to International Standard Electric Corp. Circular antenna array system scanning switch. 3,048,843, 8–7–62, Cl. 343—113.
Steiner, Fritz, and E. Kramar, to International Standard Electric Corp. Radio direction finding system. 3,054,105, 9–11–62. Cl. 343—113.
Steiner, Harry. Brassiere. 3,066,677, 12–4–62, Cl. 128—489.
Steiner, Harry. Brassiere. 3,067,751, 12–11–62, Cl. 128—489.
Steiner, James V. Variable golf club head. 3,064,980, 11–20–62, Cl. 273—171.
Steiner, James V. Variable golf club. 3,070,370, 12–25–62, Cl. 273—81.
Steiner, John : *See*—
Freeman, Stephen E., and Steiner. 3,024,215.
Steiner, John E. : *See*—
Manganello, Samuel J., and Steiner. 3,038,797.
Steiner, John E., to Barber-Colman Co. Condition sensing apparatus. 3,046,411, 7–24–62, Cl. 307—43.
Steiner, Klaus : *See*—
Hinselbecher, Max, Steiner, and Kull. 3,067,456.
Steiner, Lajos. Clamping devices and the like to clamp or hold articles in a releasable manner. 3,067,642, 12–11–62, Cl. 81—361.
Steiner, Louis. Dispensing devices. 3,037,663, 6–5–62, Cl. 221—90.
Steiner, Nicholas P. : *See*—
Sugarman, Meyer L., Jr., and Steiner. 3,051,569.
Steiner, Otto : *See*—
Bauder, Josef, Steiner, Herrmann, and Jahn. 3,024,308.
Steiner, Otto, to Siemens & Halske Aktiengesellschaft. Signal recording devices. 3,038,654, 6–12–62, Cl. 234—115.
Steiner, Roy : *See*—
Jucker, Ernst, Ebnöther, Rissi, Vogel, and Steiner. 3,036,065.
Steiner, Rudolf, ½ to E. D. Kilmer. Electromagnetic motor. 3,020,425, 2–6–62, Cl. 310—20.
Steiner, Walter. Rope made from synthetic thermoplastics. 3,023,483, 3–6–62, Cl. 28—81.
Steinert, Emil F., M. Rebuffoni, L. F. Pettit, Jr., and G. E. Cossaboom, to Westinghouse Electric Corp. Arc welding apparatus. 3,058,031, 10–9–62, Cl. 315—139.
Steinert, Emil F., and M. Rebuffoni, to Westinghouse Electric Corp. Power supply apparatus. 3,069,614, 12–18–62, Cl. 321—14.

Steinert, Gerhard, to Kohlenscheidungs-Gesellschaft, m.b.H. Radiant tubular heat exchanger. 3,015,319, 1–2–62, Cl. 122—478.

Steinert, Gerhard, to Kohlenscheidungs-Gesellschaft, m.b.H. Method for drying and burning black liquor. 3,053,615, 9–11–62, Cl. 23—48.

Steinert, Kurt: *See*—
Paul, Adolf, and Steinert. 3,036,651.

Steingas, Richard R.: *See*—
Green, Homer H., Radke, and Steingas. 3,043,376.

Steingrübner, Arthur, to Patentgesellschaft Plate & Co. Zipper. 3,063,120. 11–13–62, Cl. 24—205.13.

Steinhagen, William K.: *See*—
Ramgeon, George P., Steinhagen, and Unger. 3,057,545.

Steinhagen, William K., to General Motors Corp. Vehicle suspension. 3,037,763, 6–5–62, Cl. 267—34.

Steinhagen, William K., and R. L. Merrell, to General Motors Corp. Make-up valve for air system. 3,068,881, 12–18–62, Cl. 137—116.

Steinhard, Bertram H.: *See*—
Decker, Jacob, and Steinhard. 3,018,590.

Steinhards, Arnolds, and W. Mathes, to Dr. F. Raschig G.m.b.H. Agricultural composition and method. 3,043,-673, 7–10–62, Cl. 71—2.5.

Steinhardt, Amos: *See*—
Steinhardt, David W. 3,029,187.

Steinhardt, David W., deceased; A. Steinhardt and F. A. Goldwater, executors. Gelatin adhesive pharmaceutical preparations. 3,029,187, 4–10–62, Cl. 167—60.

Steinhauer, Roger C., to Victor Chemical Works. Flameproofing compositions and the use of same. 3,029,283, 4–10–62, Cl. 260—551.

Steinhauer, Roger C., to Stauffer Chemical Co. Fire retardant composition and cellulosic fabric treated therewith. 3,034,919, 5–15–62, Cl. 117—137.

Steinhof, Karl: *See*—
Schurich Herbert. 3,063,270.

Steinhof, Karl, Apparatefabrik: *See*—
Bunge, Otto, and Schurich. 3,029,620.
Schurich, Herbert. 3,021,061.
Schürich, Herbert. 3,025,687.
Schurich, Herbert. 3,063,270.

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Steinhoff, Ernest F.: *See*—
Dittman, Emil M., Coleman, and Steinhoff. 3,061,501.

Steiniger, Herman W., to The Bauer Bros. Co. Disc refiner. 3,040,995, 6–26–62, Cl. 241—79.

Steininger, Erwin: *See*—
Zorn, Hermann, Pass, and Steininger. 3,068,293.

Steininger, Herbert W.: *See*—
Jackson, John M., Steininger, Beel, and Werner. 3,061,-183.

Steinitz, Stephan, to Vickers Inc. Power transmission. 3,061,770. 10–30–62. Cl. 323—81.

Steinkamp, Frederick E. Detachable streamer means for use in playing touch football. 3,063,718, 11–13–62, Cl. 273—55.

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Steinlein, Gustav, and W. Trunk, to Fichtel & Sachs A.G. Separator arrangement for internal combustion engine. 3,022,776, 2–27–62, Cl. 123—73.

Steinmann, Heinrich: *See*—
Speiser, Ambros P., and Steinmann. 3,065,366.

Steinmann, Henry W., to Scott Paper Co. Preparation of urea-formaldehyde foamed resin. 3,047,538, 7–31–62, Cl. 166—7.

Steinmayer, Alwin G., and J. G. Everhart, to McGraw-Edison Co. Method of constructing stationary induction apparatus. 3,032,863, 5–8–62, Cl. 29—155.57.

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Steinmetz, Walter C., to The Jeffrey Mfg. Co. Materials reducing apparatus. 3,018,972, 1–30–62, Cl. 241—41.

Steinmeyer, Gerhard, to Heli-Coil Corp. Inserting tool for screw thread inserts. 3,052,972, 9–11–62, Cl. 29—240.5.

Steinmueller, Ralph E., and V. M. Rowell, to Harry W. Dietert Co. Universal strength testing machine. 3,050,992, 8–28–62, Cl. 73—93.

Steinmuller, Hans, to Brown, Boveri & Cie Aktiengesellschaft. Laundering machine for washing and centrifugal drying. 3,066,522, 12–4–62, Cl. 68—24.

Steinrötter, Heinz: *See*—
Hirschbeck, Josef, and Steinrötter. 3,026,172.

Steinrötter, Heinz, and H. Lorenz, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Method of regenerating absorbent solutions. 3,039,845, 6–19–62, Cl. 23—2.

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Sepp, Oscar W., Jr. 3,016,218.
Sepp, Oscar W., Jr. 3,041,022.

Steinweiel, Delmar C., to Seymour Tool & Engineering Co., Inc. Adjustable height ironing tables. 3,054,200, 9–18–62, Cl. 38—121.

Steiro Engineering Co., Inc.: *See*—
Steiro, Harry. 3,047,929.

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Steisslinger, Kurt, to Eastman Kodak Co. Indicator mechanisms for photographic cameras. 3,046,858, 7–31–62, Cl. 95—10.

Steisslinger, Kurt, to Eastman Kodak Co. Control mechanisms for photographic cameras. 3,062,113, 11–6–62, Cl. 95—10.

Steketee, Cornelis J. Machine for harvesting beets and like tubers. 3,029,877, 4–17–62, Cl. 171—58.

Steketee, Cornelis J. Machine for harvesting beets and like tubers. 3,029,878, 6–5–62, Cl. 171—55.

Steketee, Cornelis J. Machine for harvesting beets and like tubers. 3,054,460, 9–18–62, Cl. 171—58.

Stella, S.A.: *See*—
Castan, Pierre, and Gandillon. 3,028,348.

Stella, Virginio, to Cinechimica. Wear resistant treatment of sound- and image-reproducing tape. 3,041,196, 6–26–62, Cl. 117—43.

Stelle, Allen M.: *See*—
Anderson, William F., Shimazaki, Stelle, and Tellefson. 3,029,198.

Steller Cycle Corp.: *See*—
Steller, Philip. 3,024,023.

Steller, Philip, to Steller Cycle Corp. Exercising device. 3,024,023, 3–6–62, Cl. 272—73.

Stelli, Daniel E., to General Electric Co. Control mechanism. 3,051,313, 8–28–62, Cl. 210—144.

Stelling, Walter R., Jr., and E. S. Faulls, Jr., to Faustel, Inc. Machine and method for sheeting and interfolding material. 3,034,780, 5–15–62, Cl. 270—39.

Stellmacher, Wilhelm, to Mannesmann Aktiengesellschaft. Process for cutting metal blocks. 3,069,298, 12–18–62, Cl. 148—9.

Stello, Phyllis E.: *See*—
Mytton, Robert W., and Stello. 3,041,690.

Stelma, Inc.: *See*—
Peterson, Norman E. 3,025,349.
Peterson, Norman E. 3,057,958.

Stelmachowski, Carl, to Super-Cut, Inc. Honing stone assembly. 3,037,333, 6–5–62, Cl. 51—184.3.

Steltz, Irvin J., and R. W. Young, to Benjamin Foster Co. Mastic coating material. 3,053,781, 9–11–62, Cl. 260—28.5.

Stelzer, Carl, to Hauni-Werke Korber & Co. K.G. Method and device for producing multiple filter rods for filter tip cigarettes. 3,039,367, 6–19–62, Cl. 93—1.

Stelzer, Erwin. Drive means for mixing or blending apparatus. 3,061,751. 10–30–62. Cl. 310—269.

Stelzer, Leland B., G. J. Grosman, Jr., and R. B. Heath, to Texaco Inc. Record translating apparatus. 3,063,150, 11–13–62. Cl. 33—23.

Stelzer, William, to Kelsey-Hayes Co. Fluid pressure operated motor. 3,017,866. 1–23–62, Cl. 121—41.

Stelzer, William, to Kelsey-Hayes Co. Pressure control mechanism for vehicle brakes. 3,018,139, 1–23–62, Cl. 303—60.

Stelzer, William, to Kelsey-Hayes Co. Booster motor mechanism 3,026,852, 3–27–62, Cl. 121—41.

Stelzer, William, to Kelsey-Hayes Co. Booster motor mechanism, 3,026,853, 3–27–62, Cl. 121—41.

Stelzer, William, to Kelsey-Hayes Co. Detent means for preventing the uncoupling of bayonet joints. 3,030,127, 4–17–62, Cl. 285—91.

Stelzer, William, to Kelsey-Hayes Co. Booster motor mechanism. 3,040,713, 6–26–62, Cl. 121—41.

Stelzer, William, to Kelsey-Hayes Co. Tractor-trailer brake system. 3,041,114, 6–26–62, Cl. 303—7.

Stem, Donald E. Magnetic trap for conduits. 3,040,896, 6–26–62, Cl. 210—222.

Stemen, Orie J. Alternator mount for diesel engines. 3,022,777, 2–27–62, Cl. 123—195.

Stemme, Nils G. E., to Telefonaktiebolaget L M Ericsson. Assembly for counting marking impulses in an automatic telephone system. 3,017,611, 1–16–62, Cl. 340—172.5.

Stemme, Nils G. E., to Aktiebolaget Atvidabergs Industrier. Hole punching device. 3,018,037, 1–23–62, Cl. 234—119.

Stemme, Nils G. E., to Aktiebolaget Atvidabergs Industrier. Mechanism for step-by-step feeding of band like members. 3,044,678, 7–17–62, Cl. 226—150.

Stemmler, Heinz W.: *See*—
Kamborian, Jacob S., and Stemmler. 3,037,222.
Kamborian, Jacob S., and Stemmler. 3,046,577.
Kamborian, Jacob S., and Stemmler. 3,051,969.

Stemp, Ronald G.: *See*—
Mason, Frederick P., and Stemp. 3,015,690.

Stempler, Richard J. Knock-down boltless display rack. 3,063,571, 11–13–62, Cl. 211—177.

Stenberg, Nyyrikki K., to Fischer & Porter Co. Fluid dispenser. 3,040,774, 6–26–62, Cl. 137–564.5.

Stenberg, Nyyrikki K., to Fischer & Porter Co. Flow control device. 3,051,195, 8–28–62, Cl. 137–501.

Stenberg, Nyyrikki K., to Fischer & Porter Co. Flowmeter construction. 3,060,739, 10–30–62, Cl. 73—209.
Stenberg, Nyyrikki K., to Fischer & Porter Co. Rate of flow indicator. 3,066,530, 12–4–62, Cl. 73—203.
Stenbuck, Paul, and H. M. Hood, to Burroughs Wellcome & Co. (U.S.A.) Inc. Method for the preparation of 2,4-diamino-5-benzyl pyrimidines. 3,049,544, 8–14–62, Cl. 260—256.4.
Stenby, Walter H. Tie holder and safety pin. 3,059,298, 10–23–62, Cl. 24—49.
Stene, Edward L.: *See*—
Jones, Leonard S., Kowalyshyn, and Stene. 3,033,147.
Stenemann, Heinrich F.: *See*—
Mayer, Ludwig J., Rickett, and Stenemann. 3,063,866.
Stenerson, Randolph N., to Carrier Corp. Refrigeration. 3,041,851, 7–3–62, Cl. 62—304.
Stengel, Leonard A., to Commercial Solvents Corp. Process for producing mixed ammonium nitrate. 3,021,207, 2–13–62, Cl. 71—64.
Stengel, Leonard A., to Commercial Solvents Corp. Process for the production of monomethylamine nitrate. 3,066,-168, 11–27–62, Cl. 260—583.
Stengel, Leonard A., and E. E. Toops, Jr., to Commercial Solvents Corp. Polymeric alkylene oxide propellants containing microscopic crystals of lithium or magnesium salts. 3,054,702, 9–18–62, Cl. 149—19.
Stengel, Leonard A., and E. E. Toops, Jr., to Commercial Solvents Corp. Stable propellants. 3,061,489, 10–30–62, Cl. 149—36.
Stengelin, Adolf, to Daimler-Benz Aktiengesellschaft. Stabilizing system for motor vehicles. 3,035,851, 5–22–62, Cl. 280—112.
Stengelin, Adolf, to Daimler-Benz Aktiengesellschaft. Pneumatic spring system. 3,044,762, 7–17–62, Cl. 267—65.
Stengelin, Adolf, to Daimler-Benz Aktiengesellschaft. Pneumatic spring arrangement. 3,053,528, 9–11–62, Cl. 267—65.
Stenger, Hans G., to Owens-Illinois Glass Co. Plastic forming machine orifice structure. 3,054,143, 9–18–62, Cl. 18—14.
Stenger, Joseph D.: *See*—
Benichasa, Thomas J., and Stenger. 3,054,170.
Stenger, Maximilien, to Societe Anonyme Francaise du Ferodo. Device for the elimination of noise in automobile vehicle transmissions. 3,060,705, 10–30–62, Cl. 64—27.
Stengel, Vernon A.: *See*—
Goodenough, Robert D., and Stenger. 3,070,456.
Stenger, Victor R.: *See*—
Jones, Cecil H., and Stenger. 3,026,915.
Stenger, William J., to American Telephone and Telegraph Co. Delay busy circuit. 3,041,410, 6–26–62, Cl. 179—43.
Stenhammar, Harold T., and L. Kull, to General Time Corp. Timed motor control programmer for tuners. 3,027,506, 3–27–62, Cl. 318—486.
Stenning, Luis C., to The General Electric Co. Ltd. Radio navigation systems. 3,019,436, 1–30–62, Cl. 343—105.
Stenqvist, Bo E., to Aktiebolaget Akerlund & Rausing. Method of forming a blank of cellulosic material into a tubular carton. 3,029,175, 4–10–62, Cl. 156—82.
Stenstrom, John A.: *See*—
Allen, Ivey, Jr., Garty, and Stenstrom. 3,062,777.
Stenvall, Carl B. Surgical instrument. 3,016,899, 1–16–62, Cl. 128—348.
Stenvall, Gillis, and O. Mårtensson, to Pharmaria, Aktiebolaget. Treatment of vascular diseases with 2-aminoethanol-1-nitrate salt of p-toluene sulfonic acid. 3,065,136, 11–20–62, Cl. 167—65.
Stenzel, Herbert E., to Blaw-Knox Co. Low head room ladle additive feeler. 3,055,482, 9–25–62, Cl. 198—48.
Stenzel, Herbert E., to Blaw-Knox Co. Ladle feeding means. 3,058,621, 10–16–62, Cl. 222—58.
Step, Francis E.: *See*—
Litteral, Silas, and Step. 3,018,862.
Stěpánek, Karel, to Vyzkumny ustav obrabecich stroju a obrabeni. Electromechanical system for measuring of angles. 3,047,802, 7–31–62, Cl. 324—83.
Stepanski, Bernard, A. L. Smith, and J. Werthwine, to United States of America, Army. Method of delaminating cemented glass optics or lenses. 3,050,436, 8–21–62, Cl. 156—344.
Stephan, Fred J.: *See*—
Sheehan, Daniel J., Jr., and Stephan. 3,019,927.
Stephan, Hallis N., to The New Britain Machine Co. Horizontal boring, drilling and milling machines. 3,023,675, 3–6–62, Cl. 90—11.
Stephan, Hallis N., to The New Britain Machine Co. Combined horizontal boring, drilling and milling machine. 3,047,117, 7–31–62, Cl. 192—139.
Stephan, John T. Anti-foaming agents for aqueous alkaline proteinaceous adhesive solutions and the like. 3,056,687, 10–2–62, Cl. 106—154.
Stephan, Paul G.: *See*—
Maros, Frank G., and Stephan. 3,052,590.
Stephanoff, Louis J.: *See*—
Evans, Ralph A., Stephanoff, and McCollum. 3,066,547.
Stephanou, Stephen E.: *See*—
D'Addieco, Alfred A., Lake and Stephanou. 3,041,139.
Stephen, James H., to United Kingdom Atomic Energy Authority. Methods of depositing nickel-iron films. 3,027,-309, 3–27–62, Cl. 204—43.
Stephen-Rajki, Inc.: *See*—
Rajki, Stephen. 3,038,167.
Stephen, Walter F. Article container. 3,061,080, 10–30–62, Cl. 206—1.
Stephen, Willard R., 50% to M. L. Freud. Evaporator plates. 3,052,416, 9–4–62, Cl. 239—44.
Stephen, William E.: *See*—
Andrew, Herbert F., Stephen, and Tilley. 3,057,844.
Hadfield, Harry R., Ricketts, Simons, and Stephen. 3,042,477.
Heslop, Robert N., Legg, Mawson, Stephen, and Wardleworth. 3,042,475.
Stephen, William F., to Western Electric Co., Inc. Apparatus for distributing an article to one of several receiving locations. 3,017,025, 1–16–62, Cl. 209—81.
Stephens-Adamson Mfg. Co.: *See*—
Renner, Elmer J. Re. 25,151.
Stephens, Allen J., to The Mechanex Corp. Bearing seal. 3,064,982, 11–20–62, Cl. 277—95.
Stephens, Charles D., to F. P. Schwab. Fishing rod and handle and reel clamp. 3,047,974, 8–7–62, Cl. 43—22.
Stephens, Charles R., Jr.: *See*—
Beereboom, John J., Rennhard, and Stephens. 3,043,-875.
Blackwood, Robert K., and Stephens. 3,047,617.
Gordon, Philip N., Stephens, Noseworthy, and Teare. 3,023,223.
Rennhard, Hans H., Conover, Gordon, and Stephens. 3,043,876.
Stephens, Charles R., Jr., to Chas. Pfizer & Co., Inc. 2-carboxamido-N-(alkyl) substituted anhydrotetra-cycline compounds. 3,025,309, 4–3–62, Cl. 260—456.
Stephens, Charles R., Jr., and L. H. Conover, to Chas. Pfizer & Co., Inc. 4-desdimethylamino-6-deoxy-tetracycline derivatives. 3,047,626, 7–31–62, Cl. 260—559.
Stephens, Clifford A., and R. W. McCandless. Leather-coating composition. 3,047,526, 7–31–62, Cl. 260—32.8.
Stephens, Curtis W.: *See*—
Beste, Lawrence F., and Stephens. 3,068,188.
Stephens, Curtis W., to E. I. du Pont de Nemours and Co. Polyamides from N,N′-bis(3-aminophenyl)-isophthalamide. 3,049,518, 8–14–62, Cl. 260—78.
Stephens, Curtis W., to E. I. du Pont de Nemours and Co. N-acetylated polycarbonamides. 3,069,393, 12–18–62, Cl. 260—78.
Stephens, Francis C.: *See*—
Fay, John A., Stephens, Fleming, and Jordan. 3,058,479.
Stephens, Frank M., Jr., and H. C. Renken, to Esso Research and Engineering Co. Heat hardening fluid coke compactions. 3,020,210, 2–6–62, Cl. 202—26.
Stephens, Frank M., Jr., L. W. Coffer, and B. Langston, to Battelle Memorial Institute. Reduction of iron ore. 3,053,648, 9–11–62, Cl. 75—26.
Stephens, James R.: *See*—
Rhodes, Norbert M., and Stephens. 3,029,232.
Stephens, James R., to Standard Oil Co. Metal containing polyester resin. 3,035,026, 5–15–62, Cl. 260—75.
Stephens, James R., to Standard Oil Co. Baking polyester resin. 3,046,252, 7–24–62, Cl. 260—77.
Stephens, James R., R. E. Van Strien, and R. L. Broadhead, to Standard Oil Co. Polyester composition. 3,040,000, 6–19–62, Cl. 260—77.
Stephens, James R., and R. E. Van Strien, to Standard Oil Co. 4-vinyl trimellitate and/or anhydride and polymers thereof. 3,063,969, 11–13–62, Cl. 260—78.4.
Stephens, Joseph P., to Gustin-Bacon Mfg. Co. Method of forming wall panel tiles. 3,021,247, 2–13–62, Cl. 156—222.
Stephens, Joseph P., J. R. Higgins, and H. A. Haynes, to Gustin-Bacon Mfg. Co. Method and apparatus for applying resilient sleeves. 3,020,192, 2–6–62, Cl. 156—423.
Stephens, Paul B. Traction device for vehicle tires. 3,068,-925, 12–18–62, Cl. 152—226.
Stephens, Percival C.: *See*—
Gaunt, James K., and Stephens. 3,057,141.
Stephens, Robert A.: *See*—
Ayers, Joseph W., and Stephens. 3,015,627.
Ayers, Joseph W., and Stephens. 3,015,628.
Stephens, Robert J. Tank capacity calibrating apparatus. 3,062,248, 11–6–62, Cl. 141—279.
Stephens, Roger: *See*—
Karau, Norbert B., and Stephens. 3,034,561.
Stephens, Roy M., J. R. Richbourg, and A. H. Gregory, to Dan River Mills, Inc. Inspection table. 3,023,480, 3–6–62, Cl. 26—70.
Stephens, Thomas J. and W. J. Device for adjusting the set mechanism of a sawing rig. 3,032,083, 5–1–62, Cl. 143—120.
Stephens Trusonic, Inc.: *See*—
Berlant, Emmanuel. 3,050,583.
Stephens, Verlin C., to Eli Lilly and Co. Pharmaceutical salts. 3,065,261, 11–20–62, Cl. 260—490.
Stephens, Walter R.: *See*—
Jeffrey, Winstone E. P., and Stephens. 3,019,827.
Stephens, Wayne P., to The White Motor Co. Ward-Leonard control autotransformer circuit. 3,049,652, 8–14–62, Cl. 318—152.
Stephens, William A. Protective cover for note pads or books. 3,065,978, 11–27–62, Cl. 281—34.
Stephens, William J.: *See*—
Stephens, Thomas J. and W. J. 3,032,083.
Stephenson, Andrew J. Device for installing split coupling collars on corrugated pipe. 3,051,444, 8–28–62, Cl. 254—67.
Stephenson, Carl M. Tape applicator. 3,031,369, 4–24–62, Cl. 156—530.

Stephenson Corp. : *See*—
Goodner, Monroe H. 3,057,346.
Goodner, Monroe H. 3,058,460.

Stephenson, Douglas : *See*—
Copp, Frederick C., and Stephenson. 3,037,910.
Copp, Frederick C., and Stephenson. 3,038,004.

Stephenson, Ferrald D., to American Brake Shoe Co. Keeper for an excavator tooth. 3,019,537, 2–6–62, Cl. 37—142.

Stephenson, Howard F., to General Motors Corp. One-way clutch. 3,061,060, 10–30–62, Cl. 192—41.

Stephenson, Kenneth : *See*—
Gee, Eric, Gudgeon, and Stephenson. 3,019,200.

Stephenson, Lawrence M., to The M-O Valve Co. Ltd. Travelling wave tubes. 3,043,984, 7–10–62, Cl. 315—3.5.

Stephenson, Marion A. Boring bar adapter. 3,069,930, 12–25–62, Cl. 77—2.

Stephenson, Mark E., Jr. : *See*—
Goltsos, Costas E., Mark, and Stephenson. 3,024,298.

Stephenson, Norman : *See*—
Taylor, Tristram A., and Stephenson. 3,059,325.

Stephenson, Norman, to Power Jets (Research and Development) Ltd. Corrosion resistant treatment of metal articles. 3,015,880, 1–9–62, Cl. 29—194.

Stephenson, Oliver : *See*—
Petrow, Vladimir, Thomas, and Stephenson. 3,028,420.

Stephenson, Patrick H., to Pye Ltd. Manipulating devices. 3,031,090, 4–24–62 Cl. 214—1.

Stephenson, Paul A., to Old Town Corp. Paper feed tray for duplicating machines. 3,046,007, 7–24–62, Cl. 271—61

Stephenson, Robert L. : *See*—
Agarwal, Jagdish C., Sciulli, and Stephenson. 3,062,-640.
Bosley, John J., and Stephenson. 3,052,534.

Stephenson, Verl J., ½ to J. F. Ochsner. Emergency braking system. 3,043,402, 7–10–62, Cl. 188—29.

Stephenson, William L. : *See*—
Newell, Allen F., and Stephenson. 3,034,073.

Stepien, George, Jr. : *See*—
Werner, Alfred F., and Stepien. 3,018,208.

Stepoway, Theodore. Electrical connector. 3,022,481, 2–20–62, Cl. 339—75.

Stepp, James D. : *See*—
Moser, Frank H., and Stepp. 3,024,247.

Steppan, Erwin T. Lighter and cigarette package holder. 3,057,180, 10–9–62 Cl. 67—7.1.

Steppe, Vollrad, and W. Schulenburg, to Chemische Fabrik Grumau Aktiengesellschaft. Fire extinguishing compositions. 3,017,348, 1–16–62, Cl. 252—2.

Stereotone, Inc. : *See*—
Hogencamp, Harold C. 3,038,966.

Sterling, Don L. Refuse containers. 3,015,405, 1–2–62, Cl. 217—56.

Sterling Drug Inc. : *See*—
Albertson, Noel F. 3,062,804.
Albertson, Noel F., and McKay. 3,062,805.
Archer, Sydney. 3,062,821.
Archer, Sydney, and Bell. 3,056,794.
Archer, Sydney, and Bell. 3,056,795.
Archer, Sydney, and Bell. 3,058,984.
Barton, Daniel M., and Schoeffel. 3,054,653.
Boegly, William J. 3,048,306.
Cadwallader, Donald E. 3,044,933.
Carabateas, Philip M. 3,052,683.
Clarke, Robert L. 3,028,388.
Clarke, Robert L. 3,037,033.
Clinton, Raymond O. 3,030,357.
Clinton, Raymond O. 3,055,921.
Clinton, Raymond O., and Christiansen. 3,033,752.
Elpern, Bill. 3,043,844.
Gorman, William G. 3,019,947.
Klumpp, Theodore G., Wolff, and Kaplan. 3,019,169.
Larsen, Aubrey A. 3,067,237.
Manson, Andrew J. 3,030,358.
Schoeffel, Eugene W. 3,042,489.
Schoeffel, Eugene W. 3,060,118.
Tullar, Benjamin F. 3,056,799.

Sterling, Edwin, to The M. W. Kellogg Co. Treatment of iron-containing materials. 3,062,639, 11–6–62, Cl. 75—26.

Sterling Extruder Corp. : *See*—
Yokana, Lucien D. 3,059,276.

Sterling Faucet Co. : *See*—
Lantz, George H., and Drobilits. 3,027,569.

Sterling, George B. : *See*—
Veskauls, Henuo, Sterling, and Leatherman. 3,067,164.

Sterling, George B., to The Dow Chemical Co. Compositions of synthetic conjugated diene rubbers plasticized with soft elastomeric copolymers of beta-ar,ar-trichlorostyrene and conjugated diolefins. 3,025,261, 3–13–62, Cl. 260—45.5.

Sterling, George B., to The Dow Chemical Co. Copolymers comprised of aliphatic conjugated diethylenically unsaturated compounds and beta-trichlorostyrene. 3,025,277, 3–13–62, Cl. 260—80.7.

Sterling, George B., to The Dow Chemical Co. Method of accelerating the rate of formation of butadiene polymers in aqueous emulsion. 3,052,651, 9–4–62, Cl. 260—63.

Sterling, George B., to The Dow Chemical Co. Calking and sealing composition containing elastomeric polymers of acrylic acid esters. 3,067,154, 12–4–62, Cl. 260—23.

Sterling, George B., to The Dow Chemical Co. Copolymers of 3,3,3-trifluoropropene and vinyl esters. 3,069,388, 12–18–62, Cl. 260—63.

Sterling, George B., and C. E. Pawloski, to The Dow Chemical Co. Phenyl propargyloxybenzoate. 3,061,631, 10–30–62, Cl. 260—474.

Sterling, Henley F., to International Standard Electric Corp. Production of silicon. 3,069,244, 12–18–62, Cl. 23—277.

Sterling, Henley F., and F. J. Raymond, to International Standard Electric Corp. Production of pure semi-conductor material. 3,044,967, 7–17–62, Cl. 252—500.

Sterling, Henley F., and F. J. Raymond, to International Standard Electric Corp. Manufacture of high purity silicon. 3,069,241, 12–18–62, Cl. 23—223.5.

Sterling Industries, Inc. : *See*—
Gerber, Sol R., Katz, Adler, and Spercel. 3,026,104.

Sterling, John, Corp. : *See*—
Sterling, John G. 3,058,174.

Sterling, John D., Jr. : *See*—
Jarvie, John M. S., Schuler, and Sterling. 3,048,610.

Sterling, John G., to John Sterling Corp. Pocket door frame assembly. 3,058,174, 10–16–62, Cl. 20—19.

Sterling, Robert F. : *See*—
Freeman, James H., Robbins, and Sterling. 3,026,284.

Sterling Seal Co. : *See*—
Patton, Franklin S. 3,045,854.
Patton, Franklin S., and King. 3,022,922.

Sterling, Walter S., to Pneumatic Scale Corp., Ltd. Closure applying apparatus. 3,032,949, 5–8–62, Cl. 53—128.

Stern, David R., to American Potash & Chemical Corp. Electrolytic production of elemental boron. 3,030,284, 4–17–62, Cl. 204—66.

Stern, Edward S. : *See*—
Frearson, Peter M., and Stern. 3,024,241.
Frearson, Peter M., and Stern. 3,025,301.

Stern, Edward S., to J. F. MacFarlan & Co. Ltd. 4-phenyl-4-alkanoyl-piperidine derivatives. 3,024,234, 3–6–62, Cl. 260—247.5.

Stern, Eric W. : *See*—
Kraus, John W., and Stern. 3,070,642.

Stern, Hans M. : *See*—
Algier, Allen P., Nelson, and Stern. 3,024,982.
Nelson, Alfred M., and Stern. 3,039,681.
Nelson, Alfred M., Stern, and Westermeier. 3,041,066.
Nelson, Alfred M., Stern, and Wiener. 3,016,239.

Stern, Hans M. Random access storage device for cards. 3,065,905, 11–27–62, Cl. 235—61.11.

Stern, Herbert J. Portable hair dryer. 3,023,515, 3–6–62, Cl. 34—99.

Stern, Leonard, to Hartz Mountain Products Corp. Bird feeding devices. 3,017,859, 1–23–62, Cl. 119—51.

Stern, Martin O., to General Dynamics Corp. Pressure gauge. 3,029,643, 4–17–62, Cl. 73—398.

Stern, Marvin A., to General Dynamics Corp. Frequency multiplication. 3,066,196, 11–27–62, Cl. 179—100.2.

Stern, Marvin A., and W. M. Woodhull, to General Dynamics Corp. Signal transmitting and receiving station. 3,066,-195, 11–27–62, Cl. 179—84.

Stern, Menahem, to Monroe Calculating Machine Co. Sheet feeding mechanism. 3,042,179, 7–3–62, Cl. 197—138.

Stern, Milton, to Union Carbide Corp. Corrosion-resistant alloys. 3,063,835, 11–13–62, Cl. 75—175.5.

Stern-Montagny, Francis : *See*—
Crosby, James S., Jr., and Stern-Montagny. 3,040,299.

Stern, Ruth B., and H. S. Harvey. Vitamin calendar. 3,057,-473, 10–9–62, Cl. 206—78.

Stern, Tobias : *See*—
Frisch, Martin, Cartinhour, Tinbergen, Stern, and Tidd. 3,052,222.

Stern, William, to Illinois Tool Works Inc. Washer feeding machine and method. 3,021,979, 2–20–62, Cl. 221—157.

Stern, William, to Illinois Tool Works Inc. Drilling, reaming and tapping screw. 3,044,341, 7–17–62, Cl. 85—47.

Sternbach, Leo H. : *See*—
Reeder, Earl, and Sternbach. 3,051,701.

Sternberg, Marvin, and E. A. Neu, Jr., to Curtiss-Wright Corp. Rocket engine swivel mount. 3,016,697, 1–16–62, Cl. 60—35.6.

Sternberg, Robert L. : *See*—
Feuerstein, Erwin, and Sternberg. 3,020,496.

Sterner, Marie C. : *See*—
Sall, Gustav A. 3,023,650.

Sterner, Melvin F., to Holley Carburetor Co. Accelerating pump. 3,017,166, 1–16–62, Cl. 261—34.

Sterner, Melvin F., to Holley Carburetor Co. Engine governor actuator. 3,028,847, 4–10–62, Cl. 123—103.

Sterner, Olle P. : *See*—
Cechner, Frank A., and Sterner. 3,041,961.

Sterngart, Evelyn T. Boxes and containers. 3,061,136, 10–30–62, Cl. 220—20.

Sternlicht, Beno, to General Electric Co. Pumps. 3,037,457, 6–5–62, Cl. 103—84.

Sternlicht, Beno, to General Electric Co. Self-lubricating bearings. 3,046,068, 7–24–62, Cl. 308—240.

Sterrett, Vance C. : *See*—
Peters, William H., and Sterrett. 3,060,882.

Sterrett, Vance C. Proportioner and mixer, and tumbling differential for controlling the action thereof. 3,047,004, 7–31–62, Cl. 137—101.25.

Sterzer, Fred : *See*—
Beam, Walter R., and Sterzer. 3,051,844.

Sterzer, Fred, to Radio Corp. of America. Radio frequency logic circuits. 3,038,086, 6–5–62, Cl. 307—88.5.

Sterzer, Fred, to Radio Corp. of America. Parametric oscillator random number generator. 3,069,632, 12–18–62, Cl. 331—47.
Stetson, Alvin R.: *See*—
Long, John V., Stetson, and Furth. 3,041,206.
Stetson, Alvin R., to Solar Aircraft Co. Electrolytic production of titanium plate. 3,024,174, 3–6–62, Cl. 204—39.
Stetter, Charles W.: *See*—
Wagner, Edward W., and Stetter. 3,030,904.
Wagner, Edward W., and Stetter. 3,037,379.
Stetzler, Grant F., to Western Electric Co., Inc. Meter protection circuit. 3,042,865, 7–3–62, Cl. 324—110.
Stetzler, Grant F., to Western Electric Co., Inc. Component sorting circuit. 3,045,184, 7–17–62, Cl. 324—158.
Steuart, Frank R. Ice fisherman's angling hole plug. 3,030,727, 4–24–62, Cl. 43—56.
Steube, Harry C.: *See*—
Whildin, Orvilla M., and Steube. 3,040,141.
Steuber, Walter, to E. I. du Pont de Nemours and Co. Segmented polymer containing N-alkylated urethane groups. 3,044,990, 7–17–62, Cl. 260—77.5.
Steuber, Walter, to E. I. du Pont de Nemours and Co. Process of forming shaped articles. 3,051,545, 8–28–62, Cl. 18—54.
Steudten, Werner: *See*—
Markert, Willi, and Steudten. 3,026,696.
Steuer, Herbert: *See*—
Karig, Erhardt, Steuer, and Dittrich. 3,043,154.
Karig, Erhardt, Steuer, Schrodt, and Dittrich. 3,043,152.
Steuer, Herbert, to Reimers-Getriebe KG. Cone pulley drive. 3,034,367, 5–15–62, Cl. 74—230.17.
Steuer, Milton. Instep structure for conventional lace stay of shoe. 3,037,303, 6–5–62, Cl. 36—51.
Stevans, Ernest. Suture devices. 3,037,619, 6–5–62, Cl. 206—63.3.
Stevens-Arnold Inc.: *See*—
Cann, Arthur F. 3,054,950.
Reifel, Harry, 3,020,455.
Stevens, Bryce L., to General Motors Corp. Thermostatic switch. 3,022,405, 2–20–62, Cl. 200—138.
Stevens & Bullivant Ltd.: *See*—
Smith, Samuel. 3,064,408.
Stevens, Clarence E., to The Filtex Corp. Inlet valve assembly. 3,036,814, 5–29–62, Cl. 251—299.
Stevens, Clarence E., to The Filtex Corp. Suction nozzle. 3,069,186, 12–18–62, Cl. 285—7.
Stevens, Clarence M., to General Electric Co. Improved laminated frame and method of making same. 3,043,971, 7–10–62, Cl. 310—216.
Stevens, Clifford B., and R. F. Garms, to E. R. Wagner Mfg. Co. Means for attaching handles to adjustable brush sweepers. 3,034,163, 5–15–62, Cl. 15—41.
Stevens, Daryl W.: *See*—
Hoyt, Deryl R., and Stevens. 3,039,636.
Stevens, Derek N.: *See*—
Simpson, William E., and Stevens. 3,060,479.
Stevens, Don J., to United States of America, Atomic Energy Commission. Connector. 3,018,460, 1–23–62, Cl. 339—92.
Stevens, Elbridge S.: *See*—
Groll, Thomas F., Jr., and Stevens. 3,027,755.
Stevens, Frederick F., Jr. Gas-operated semi-automatic pistol. 3,069,976, 12–25–62, Cl. 89—191.
Stevens, George A., to Paper Sacks Ltd. Baling or packing machines. 3,045,407, 7–24–62, Cl. 53—258.
Stevens, George D., and M. L. Neuville, to Ansul Chemical Co. Method for controlling aquatic flora. 3,056,670, 10–2–62, Cl. 71—2.7.
Stevens, Guy L., to Hastings Mfg. Co. Ball type upsetting apparatus. 3,068,557, 12–4–62, Cl. 80—17.
Stevens, Harold E.: *See*—
Bird, James R., and Stevens. 3,027,514.
Bird, James R., and Stevens. 3,054,074.
Stevens, Henry C.: *See*—
Strain, Franklin, Stevens, and Foltz. 3,046,255.
Stevens, Henry C., to Pittsburgh Plate Glass Co. Chain extending polycarbonate with phosgene. 3,069,385, 12–18–62, Cl. 260—47.
Stevens, Henry P., to The Firestone Tire & Rubber Co. N,N′-dialkyl thioureas as antiozone agents for rubber. 3,024,218, 3–6–62, Cl. 260—45.9.
Stevens, Horace D., to The Firestone Tire & Rubber Co. Fabric edge turning device. 3,018,820, 1–30–62, Cl. 156—465.
Stevens, Howard C., to Manning, Maxwell & Moore, Inc. Rigging hoist. 3,030,076, 4–17–62, Cl. 254—169.
Stevens, Howard C., Jr.: *See*—
Minty, John E., and Stevens. 3,021,962.
Stevens, Howard C., Jr., to Manning, Maxwell & Moore, Inc. Hoist construction. 3,047,114, 7–31–62, Cl. 192—16.
Stevens, Howard C., Jr., to Manning, Maxwell & Moore, Inc. Power driven brushing unit for washing trucks. 3,048,865, 8–14–62, Cl. 15—21.
Stevens, Howard C., Jr., and W. A. Paulssen, to Manning, Maxwell & Moore, Inc. Portable jib crane. 3,049,242, 8–14–62, Cl. 212—58.
Stevens, J. P., & Co., Inc.: *See*—
Horton, Richard C. 3,060,549.
Shipman, Gary M. 3,045,317.
Squier, William H. 3,036,942.
Tesoro, Giuliana C. 3,061,473.
Tesoro, Giuliana C., and Linden. 3,061,399.
Turton, Walter. 3,027,738.
Wolf, Harold W., and von Bergen. 3,051,544.
Stevens, James B. Shoe sole cleaner. 3,032,794, 5–8–62, Cl. 15—36.
Stevens, James E., Jr.: *See*—
Moss, James R., Koch, and Stevens. 3,021,121.
Stevens, Joel B.: *See*—
Crawford, Robert T., and Stevens. 3,017,309.
Stevens, John M., to H. F. Livermore Corp. Vibration absorbing material and method for making the same. 3,050,426, 8–21–62, Cl. 154—54.
Stevens, Louis D.: *See*—
Haanstra, John W., Huag, Lesser, Stevens, and Woodbury. 3,026,036.
Stevens Mfg. Co., Inc.: *See*—
Bletz, Howard W. 3,059,085.
Martler, Charles S. 3,042,783.
Stevens, Michael C.: *See*—
Le Boutillier, Arthur, and Stevens. 3,039,432.
Stevens, Quinn O. Elevator link and wear plate having means aiding in assembly thereof. 3,028,725, 4–10–62, Cl. 59—84.
Stevens, Richard K.: *See*—
Evans, George H. 3,049,831.
Stevens, Richard L., to R. W. Hudson. Limb supporting attachment for operating tables. 3,020,909, 2–13–62, Cl. 128—70.
Stevens, Richard W., to Thorn Electrical Industries Ltd. Means for lighting spaced compartments. 3,065,336, 11–20–62, Cl. 240—9.
Stevens, Rita M., and C. H. Barnes. Oscillating bed. 3,031,687, 5–1–62, Cl. 5—109.
Stevens, Robert C. Wound shield. 3,026,874, 3–27–62, Cl. 128—260.
Stevens, Robert J., to Bailey Meter Co. Resistance thermometer. 3,061,806, 10–30–62, Cl. 338—28.
Stevens & Thompson Paper Co.: *See*—
Schermerhorn, Asa C. 3,038,677.
Stevens, Travis E., to Rohm & Haas Co. Bis (N-substituted-N-trifluoromethyl amino) sulfides. 3,025,324, 3–13–62, Cl. 260—576.
Stevens, Travis E., to Rohm & Haas Co. N-phenyl-N-trifluoromethyl-alkanamides. 3,038,938, 6–12–62, Cl. 260—562.
Stevens, Travis E., to Rohm & Haas Co. Process for the preparation of fluorohydrocarbons. 3,068,299, 12–11–62, Cl. 260—653.8.
Stevens, Webb C., Jr.: *See*—
Eaton, Raymond C., Stevens, and Way. 3,024,576.
Stevens, William A., to Royal-Texas, Inc. Adjustable support. 3,042,355, 7–3–62, Cl. 248—328.
Stevens, William A., and L. H. Roben, to Georgia Tool & Engineering Co. Air filter. 3,026,967, 3–27–62, Cl. 183—44.
Stevens, William H.: *See*—
Bayly, John G., and Stevens. 3,021,427.
Stevenson, Alden, and T. C. Hall, to Pacific Semiconductors, Inc. Masking technique. 3,055,776, 9–25–62, Cl. 117—212.
Stevenson, Clarence H., III: *See*—
McGrath, Earle J., and Stevenson. 3,050,199.
Stevenson, Donald H., to Air Products and Chemical, Inc. Cyclic operation for the catalytic dehydrogenation of normally gaseous hydrocarbons. 3,032,598, 5–1–62, Cl. 260—683.3.
Stevenson, Frank: *See*—
Faust, Martin H., and Stevenson. 3,063,271.
Stevenson, Graham T.: *See*—
Hymas, Theo A., and Stevenson. 3,052,602.
Stevenson, Halsey B.: *See*—
Oppegard, Alfred L., and Stevenson. 3,026,213.
Oppegard, Alfred L., and Stevenson. 3,067,051.
Stevenson, Harry, and T. W. Pease, to Hadfields Ltd. Securing of sleeves on shafts. 3,034,811, 5–15–62, Cl. 287—52.07.
Stevenson, Herbert A.: *See*—
Godson, David H., Leafe, Lush, and Stevenson. 3,069,429.
Stevenson, James R.: *See*—
Miller, Raymond J., and Stevenson. 3,023,818.
Stevenson, Ian W. Control devices for automatically controlling physical variables. 3,028,503, 4–3–62, Cl. 250—231.
Stevenson, Turner and Boyce Ltd.: *See*—
Turner, Edwin S., and Boyce. 3,030,960.
Stevenson, William E., Jr., and G. V. Dorflinger, to Stewart-Warner Corp. Lubricating apparatus. 3,066,759, 12–4–62, Cl. 184—7.
Steventon, Charles F., and B. E. King, to The British Oxygen Co. Ltd. Control of automatic flame-cutting machines. 3,058,733, 10–16–62, Cl. 266—23.
Stevko, Phillip J.: *See*—
Burhans, Ralph W., Jackson, and Stevko. 3,048,335.
Stevko, Phillip J., to The Standard Oil Co. Engine test apparatus. 3,064,470, 11–20–62, Cl. 73—116.
Steward, Denton. Combined smoker's pipe and tamper therefor. 3,070,099, 12–25–62, Cl. 131—184.
Steward, Omar W.: *See*—
Holbrook, George W., and Steward. 3,015,585.
Stewart, Alexander J.: *See*—
Cook, Lucien H., and Stewart. 3,069,234.
Stewart, Alford K., and R. A. Keech, to Menasco Mfg. Co. Retaining device. 3,047,343, 7–31–62, Cl. 308—3.
Stewart, Alfred W., to Ulster-Dutchess Machine & Tool Co., Inc. Intermittent drive. 3,057,215, 10–9–62, Cl. 74—125.5.

Stewart, Byron : *See*—
La Combe, Edward M., and Stewart. 3,030,424.
Stewart, Charles N. Car visor. 3,066,973, 12–4–62, Cl. 296—97.
Stewart, Clare A., Jr., to E. I. du Pont de Nemours and Co. Copolymers of 1,1,2,3-tetrachlorobutadiene-1,3. 3,058,960, 10–16–62, Cl. 260—87.5.
Stewart, Clare A., Jr., to E. I. du Pont de Nemours and Co. Preparation of 2,3-dichloro,butadiene-1,3. 3,061,653, 10–30–62, Cl. 260—655.
Stewart, Clarence H. : *See*—
Durkee, James D., Stewart, and Peugh. 3,035,250.
Stewart, Clarence H., to Bell & Gossett Co. Signaling system for remote control of equipment functions. 3,060,-408, 10–23–62, Cl. 340—171.
Stewart, Donald J. Spin-axis stabilized space vehicle structure. 3,034,745, 5–15–62, Cl. 244—1.
Stewart, Evard R. : *See*—
Thompson, Hall W., and Stewart. 3,047,342.
Stewart, Frederick G., to American Seal-Kap Corp. of Delaware. Railway brake beam guide. 3,023,856, 3–6–62, Cl. 188—210.
Stewart, Frederick G., and M. Warshal, to Magor Car Corp. Locking means for car roof hatch covers. 3,041,099, 6–26–62, Cl. 292—259.
Stewart, Hall : *See*—
Culmer, Chaddeus W. 3,058,910.
Stewart, Harold D. Reel for metal snakes. 3,053,472, 9–11–62, Cl. 242—96.
Stewart, Harold C. Cam action handle for metal snakes. 3,053,507, 9–11–62, Cl. 254—134.3.
Stewart, Hercules D., D. J. Morris, and E. E. Wilson, to Allied Chemical Corp. Apparatus and method for application of particulate material to sheet products. 3,049,436, 8–14–62, Cl. 117—25.
Stewart, Hugh W., to United States Rubber Co. Process of preparing substituted hydrazine derivatives. 3,055,941, 9–25–62, Cl. 260—583.
Stewart, James B. Method of massage. 3,064,642, 11–20–62, Cl. 128—33.
Stewart, James B. Combination furniture and therapeutic equipment. 3,052,235, 9–4–62, Cl. 128—33.
Stewart, James R. : *See*—
Baker, Willard L., Dorosz, and Stewart. 3,024,480.
Stewart, Jim D., to General Motors Corp. Rotor shroud. 3,070,350, 12–25–62, Cl. 253—77.
Stewart, John K., to Canada Iron Foundries Ltd. Utility car. 3,035,529, 5–22–62, Cl. 105—177.
Stewart, John W., and J. A. Cotten. Air blown rolling ball game. 3,038,725, 6–12–62, Cl. 273—119.
Stewart, Justin C., to Utah Cooperative Association (a Farmers Union Affiliate). Method of and composition for eliminating crab grass infestations. 3,057,709, 10–9–62, Cl. 71—2.5.
Stewart, Leo, to Guy F. Atkinson Co. Lifting device. 3,031,222, 4–24–62, Cl. 294—110.
Stewart, Marshall E. Sheet perforating devices. 3,031,907, 5–1–62, Cl. 83—146.
Stewart, Meredith M. : *See*—
Boucek, Albert C., Elliott, and Stewart. 3,029,207.
Elliott, George E., Jr., McKinley, and Stewart. 3,017,-368.
Flinn, Richard A., and Stewart. 3,020,239.
Stewart, Merlin F. Front-loading power shovel. 3,042,235 7–3–62, Cl. 214—145.
Stewart, Paul H. : *See*—
Jones, Jean E., and Stewart. 3,047,384.
Stewart, Richard C., and J. C. de Verrier, to Flightex Fabrics, Inc. Light screen for ballistic uses. 3,025,406, 3–13–62, Cl. 250—220.
Stewart, Richard E. Door knocker assembly. 3,068,835, 12–18–62, Cl. 116—148.
Stewart, Richard F., to Texas Instruments Inc. Method of forming silicon into intricate shapes. 3,034,871, 5–15–62, Cl. 23—301.
Stewart, Robert A., and W. A. Rock, to Gerber Products Co. Method of preparing canned infant milk formula. 3,052,-555, 9–4–62, Cl. 99—183.
Stewart, Robert J. : *See*—
Greenman, Orval L., and Stewart. 3,044,631.
Stewart, Robert M. : *See*—
Badenoch, Benjamin W., and Stewart. 3,046,898.
Stewart, Rodney A. : *See*—
Krumm, Dero J., and Stewart. 3,025,315.
Stewart Sand & Material Co. : *See*—
Gish, Henry A. 3,043,430.
Stewart and Stevenson Distributing Co. : *See*—
Koomey, Paul C., and Hudson. 3,028,881.
Stewart & Stevenson Services, Inc. : *See*—
Friddell, James F. 3,056,393.
Stewart, Troy C., Sr. Pneumatic separator. 3,015,390, 1–2–62, Cl. 209—140.
Stewart, Vincent N., to General Electric Co. Electric circuit interrupter. 3,023,292, 2–27–62, Cl. 200—166.
Stewart, Vincent N., to General Electric Co. Electric circuit interrupter. 3,031,552, 4–24–62, Cl. 200—144.
Stewart, Walter G. Phonograph record case. 3,043,492, 7–10–62, Cl. 229—52.
Stewart-Warner Corp. : *See*—
Allen, Arthur C. 3,054,479.
Allen, Arthur C. 3,066,695.
Bickler, Irving B. 3,025,516.
Stewart-Warner Corp. : *See*—Continued
Burtt, Jack R., Palino, and Staiger. 3,047,271.
Bystricky, Joseph C., Jennings, and Luna. 3,035,661.
Cornelius, Richard T. 3,018,145.
Cornelius, Richard T. 3,057,668.
Czapar, William A. 3,066,368.
Czyryk, Chester S., and Hermanson. 3,030,527.
Dew, Robert L., Kuklinski, and Zabouski. 3,025,053.
Dinkelkamp, Henry T. 3,021,823.
Dinkelkamp, Henry T., and Jennings. 3,031,032.
Fairbanks, Gordon J. 3,037,551.
Fisher, John T., and Potter. 3,066,499.
Gersch, Adolph E. 3,047,805.
Graybeal, Warren E. 3,045,801.
Hostetter, Robert J. 3,065,918.
Hyuard, George H. 3,035,521.
Maudlin, Wendell F. 3,058,724.
Maudlin, Wendell E. 3,065,610.
Michaels, Henry R. 3,021,787.
Nash, Cleve C. 3,046,508.
Ronney, William L., and Zargarpur. 3,066,541.
Ryder, Frank A. 3,024,853.
Stevenson, William E., Jr., and Dorflinger. 3,066,759.
Tear, Harry R. 3,066,526.
Turner, William V. 3,066,758.
Wargo, Peter. 3,025,369.
Woodcock, Charles A. 3,025,390.
Woodcock, Charles A. 3,036,208.
Woodcock, Charles A. 3,066,218.
Stewart, Warner L., and D. G. Evans, to United States of America, National Aeronautics and Space Administration. Multistage multiple-reentry turbine. 3,070,349, 12–25–62, Cl. 253—66.
Stewart, William D. : *See*—
Terek, Joseph A., and Stewart. 3,029,538.
Stewart, William J., and T. A. Girard, to Heyden Newport Chemical Corp. Process for the production of polyurethane foams. 3,036,022, 5–22–62, Cl. 260—2.5.
Stewart, William R., and C. G. Bosco, to Northwestern Steel & Wire Co. Product decelerator. 3,033,350, 5–8–62, Cl. 198—127.
Stewart, William T. : *See*—
Lowe, Warren, Kavanagh, Stuart, and Stewart. 3,037,-622.
Stewart, William T., F. A. Stuart, and W. Lowe, to California Research Corp. Detergent copolymer. 3,046,260, 7–24–62, Cl. 260—80.5.
Stewart, William T., F. A. Stuart, and W. Lowe, to California Research Corp. Lubricant composition. 3,048,544, 8–7–62, Cl. 252—51.5.
Stewarts and Lloyds Ltd. : *See*—
Belford, Adam J. R. 3,033,237.
Hendry, David C. 3,023,578.
Steyer, Alphonse : *See*—
Heller, Franz, and Steyer. 3,065,090.
Steyermark, Paul R. : *See*—
Steadman, Thomas R., and Steyermark. 3,020,273.
Steyermark, Paul R., and M. L. Wolfrom, to W. R. Grace & Co. Process for the preparation of diglycosylureas. 3,023,205, 2–27–62, Cl. 260—211.5.
Steyh, Joseph. Traversing mechanism. 3,029,649, 4–17–62, Cl. 74—37.
Steyskal, Rex F., ½ to F. W. and ½ to J. C. Zimmerman. Micrometer depth gage. 3,037,405, 6–5–62, Cl. 77—34.5.
Stibitz, George R. V-belt equalizer. 3,057,217, 10–9–62, Cl. 74—230.17.
Stich, Eugen G. Method of producing yeast. 3,068,155, 12–11–62, Cl. 195—82.
Stichting National Luchtvaartlaboratorium : *See*—
Feis, Nikolaas. 3,021,811.
Stichting Reactor Centrum Nederland : *See*—
Hermans, Marie E. A., and van der Plas. 3,054,738.
Went, Jan J., and van der Schee. 3,056,736.
Stickel, Allwin : *See*—
Carson, Frank J., and Stickel. 3,069,878.
Stickel, Allwin, to Libbey-Owens-Ford Glass Co. Apparatus for bending glass sheets. 3,060,708, 10–30–62, Cl. 65—291.
Stickel, Robert M. : *See*—
Gilbert, Gerald, and Stickel. 3,070,517.
Stickelber, Merlin A., to Stickelber & Sons, Inc. Twisted loaf roller panner. 3,031,058, 4–24–62, Cl. 198—21.
Stickelber & Sons, Inc. : *See*—
Stickelber, Merlin A. 3,031,058.
Stickle, Ralph, Jr. : *See*—
Strathdham, John R., Stickle, and Hill. 3,057,812.
Stickle, Ralph, Jr., to Union Carbide Corp. Cross-linking carboxyl containing polymers. 3,027,357, 3–27–62, Cl. 260—78.5.
Stickney, Donald E. Bottle. 3,069,039, 12–18–62, Cl. 215—1.
Stickney, Joseph B., C. E. Lemmermann, C. E. Herring, and R. W. Carlson, to Picker X-Ray Corp., Waite Mfg. Div., Inc. Scintillation scanner. 3,070,695, 12–25–62, Cl. 250—71.5.
Stickney, Palmer B., W. Overhults, and F. X. Werber, to W. R. Grace & Co. Methacrylic ester polymerization. 3,030,349, 4–17–62, Cl. 260—89.5.
Stickney, Wendell H., to Diamond National Corp. Distended molding of paper pulp. 3,047,458, 7–31–62, Cl. 162—223.
Stickney, Wendell H., and R. F. Reifers, to Diamond National Corp. Method for producing a pulp molding die. 3,067,-470, 12–11–62, Cl. 18—55.

Stidwill, George B. M., to Howard Smith Paper Mills Ltd. Level control for the delivery of cut sheets. 3,030,107, 4–17–62, Cl. 271—68.

Stiebel, Ariel L., and M. G. Rigby, to Rockwell-Standard Corp. Safety device for power presses. 3,047,116, 7–31–62, Cl. 192—131

Stiebel, Theodor H. Pressure-temperature operated electrical switching apparatus. 3,061,707, 10–30–62, Cl. 219—41.

Stieber, Wilhelm. Friction producing device for transmitting or destroying forces. 3,034,365, 5–15–62, Cl. 74—206.

Stiefel, Christian J., and H. F. Konig, to Waggonfabrik Talbot. Lid for vehicles, especially freight cars and trucks. 3,019,743, 2–6–62, Cl. 105—377.

Stieffenhofer, Louis, to Moulinage et Retorderie de Chavanoz. Process for the production of knop yarns and apparatus therefor. 3,020,173, 2–6–62, Cl. 117—45.

Stieg, Robert C.: *See*—
Hess, Paul, and Stieg. 3,026,110.
Hess, Paul, and Stieg. 3,050,355.

Stieg, Robert W.: *See*—
Simonds, George D., Stieg, McLyman, and Larson. 3,050,963.

Stieg, William E., and A. T. Nielsen, to Chas. Pfizer & Co., Inc. Vitamin A ester compositions. 3,047,598, 7–31–62, Cl. 260—410.

Stieger, Philip J. Smoking pipe. 3,048,179, 8–7–62, Cl. 131—195.

Stiegler, Elwood A.: *See*—
Mika, Henry S., Stiegler, Kehoe, and Mehlenbacher. 3,062,058.

Stieglitz, Ernst, and M. Matz. Esters of nitric acid of oxyalkylamides and process for the production of such esters. 3,036,074, 5–22–62, Cl. 260—256.

Stieglitz, Henry C., to Thompson Ramo Wooldridge Inc. Follow rest. 3,039,341, 6–19–62, Cl. 82—38.

Stieglitz, Hermann W., W. S. Kaiser, and C. D. Moore, to Seton Corp. Flash removing welding machine. 3,036,202, 5–22–62, Cl. 219—97.

Stieglitz, Hermann W., F. B. Jacob, and L. D. McIlvin, to Seton Corp. Welding machine. 3,036,204, 5–22–62, Cl. 219—101.

Stiehm, Louis J.: *See*—
Stiehm, Joseph A., and Stiehm. 3,044,738.

Stiens, Robert B., to Palmer Thermometers, Inc. Maximum-minimum pointer assembly. 3,016,038, 1–9–62, Cl. 116—129.

Stier, Howard J.: *See*—
Berry, Richard C., and Stier. 3,041,420.

Stierlin, Hans. Pot type oil burner. 3,017,921, 1–23–62, Cl. 158—28.

Stierlin, Hans. Removable burner assembly. 3,033,272, 5–8–62, Cl. 158—4.

Stierlin, Hans. Apparatus for instantly extinguishing the flame in dish type oil burners. 3,062,272, 11–6–62, Cl. 158—28.

Stiffler, Harold F.: *See*—
Blodgett, Edwin O., and Stiffler. 3,037,448.

Stiffler, Hugh A. Agitator wheel. 3,030,083, 4–17–62, Cl. 259—134.

Stiftelsen Svensk Cellulosaforskning: *See*—
Hartler, Nils J. C. 3,042,575.

Stifterverband fur Die Deutsche Wissenschaft: *See*—
Piloty, Robert. 3,018,472.

Stiglic, Paul M.: *See*—
Heppler, Herbert, and Stiglic. 3,017,749.

Stiglic, Paul M., D. J. Shramo, and C. R. Hehmeyer, to Thompson Ramo Wooldridge Inc. Hot gas servo system. 3,066,653, 12–4–62, Cl. 121—41.

Stiglin, Vincent. Vehicle illumination. 3,020,391, 2–6–62, Cl. 240—7.1.

Stihl, Andreas, and H. Hase; said H. Hase assor. to A. Stihl. Automatically operable lubricating pump, especially for motor chain saws. 3,068,961, 12–18–62, Cl. 184—29.

Stikeleather, Robert M., to Aerofin Corp. Machines for removing fins from spirally finned heat exchange tubes. 3,054,313, 9–18–62, Cl. 82—40.

Stile-Craft Manufacturers, Inc.: *See*—
Rogers, Gerald L. 3,036,595.

Stiles, Alan R.: *See*—
Erikson, Jay A., Stiles, and Tieman. 3,065,257.
Tieman, Charles H., and Stiles. 3,068,268.

Stiles, John C., to General Precision Inc. Two-axis subminiature rate gyroscope. 3,065,641, 11–27–62, Cl. 74—5.

Stiles, Martin, and H. L. Finkbeiner, to Research Corp. Nitroalkanoic acids and esters thereof. 3,055,936, 9–25–62, Cl. 260—526.

Stiles, Samuel R., to The M. W. Kellogg Co. Alkylation of hydrocarbons. 3,068,308, 12–11–62, Cl. 260—683.62.

Still, Carl: *See*—
Schmidt, Josef, Schneider, Thiersch, Knappstein, Stuhrmann, Eickemeyer, and Voll. 3,054,728.

Still, Carl, Firma: *See*—
Hoffmann, Heinrich, Schmidt, and Thiersch. 3,058,891.

Still Fish Reel Co., The: *See*—
Nowakowski, Albert J. 3,015,183.

Still, Joseph W. Method and apparatus for utilizing the permanent long term aorta intubation of a laboratory animal. 3,043,303, 7–10–62, Cl. 128—214.

Stille, Henry A., to Grand Haven Brass Foundry. Ball cock valve. 3,057,371, 10–9–62, Cl. 137—451.

Stille-Werner, Aktiebolaget: *See*—
Grath, Gustaf-Bertil L. 3,051,169.

Stiller, Bruno V. Electronic marketing system and apparatus. 3,023,851, 3–6–62, Cl. 186—1.

Stiller, Paul: *See*—
Altman, Bernard, and Stiller. 3,054,882.

Stilley, Herschel H., to Clark Equipment Co. Fluid system for a windlass. 3,039,576, 6–19–62, Cl. 192—.94.

Still-Man Mfg. Corp.: *See*—
Altman, Bernard, and Stiller. 3,054,882.

Stillman, Stephen L., Jr., to United States of America, Navy. Hydrodynamically balanced towing apparatus for maintaining hydrophones vertically orientated. 3,027,539, 3–27–62, Cl. 340—5.

Stilwagon, C. K.: *See*—
Ramsey, William H. 3,051,435.

Stillwagon, Crawford K. Disc valve. 3,024,802, 3–13–62, Cl. 137—375.

Stillwagon, Crawford K. Disc valve having periphery sealing ribs. 3,043,557, 7–10–62, Cl. 251—306.

Stillwagon, George B., Jr., ½ to K. G. Fraser. Method of making universal joints. 3,057,055, 10–9–62, Cl. 29—443.

Stillwell, Peter F. T. C., to Electric & Musical Industries Ltd. Amplifying arrangements. 3,050,724, 8–21–62, Cl. 343—16.

Stilwell, Robert E., to FMC Corp. Pipe coupling. 3,068,025, 12–11–62, Cl. 285—5.

Stimler, Morton: *See*—
Reed, Herbert B., Jr., and Stimler. 3,023,397.

Stimson, Allen G., to Eastman Kodak Co. Camera with pendular photocell. 3,023,684, 3–6–62, Cl. 95—10.

Stimson, Allen G., J. H. Eagle, R. P. Ferry, and R. E. Border, to Eastman Kodak Co. Automatic exposure control system. 3,033,093, 5–8–62, Cl. 95—64.

Stimson, Allen G., and J. H. Eagle, to Eastman Kodak Co. Automatic exposure control system. 3,033,094, 5–8–62, Cl. 95—64.

Stimson, Homer J. Barge. 3,022,633, 2–27–62, Cl. 61—46.5.

Stinchfield, Carleton P.: *See*—
Bolton, Robert A., and Stinchfield. 3,041,156.

Stine, Howard E., Jr.: *See*—
Overman, William R., and Stine. 3,029,670.

Stine, Ira A., and J. McManus, Jr., to West Virginia Pulp and Paper Co. Recovery of aliphatic acids from black liquor. 3,040,094, 6–19–62, Cl. 260—527.

Stine, Joe, Inc.: *See*—
Tipps, Jake B. 3,051,442.

Stine, Laurence O., K. D. Vesely, and J. R. Schoenfeld, to Universal Oil Products Co. Catalytic hydrocracking of nitrogenous feed stocks. 3,053,906, 10–16–62, Cl. 208—111.

Stine, Lester G., to Automation Engineers, Inc. Intercoupler. 3,029,919, 4–17–62, Cl. 197—5.

Stine, Paul J.: *See*—
McClintock, Sherman E. 3,036,660.

Stine, Robert E.: *See*—
Houck, Richard E., and Stine. 3,060,757.

Stine, William H., Jr.: *See*—
Matray, Otto J., and Stine. 3,050,822.

Stiner, Cyril W., to E. I. du Pont de Nemours and Co. Napped fibrous regenerated sponge structure and process of making same. 3,068,545, 12–18–62, Cl. 28—72.

Stingelin, Ernst, to Burgerspital Basel. Apparatus for cleaning syringes. 3,047,000, 7–31–62, Cl. 134—152.

Stinger, John B., to National Research Development Corp. Multipliers for electrical digital computing engines. 3,034,722, 5–15–62, Cl. 235—164.

Stinnett, Clarence L.: *See*—
Anderson, Collie W., Stinnett, and Ayers. 3,069,884.

Stinson, Donald L., to Phillips Petroleum Co. Method of making plastic hinge. 3,019,486, 2–6–62, Cl. 18—48.

Stinson, Harold S. Adding machines. 3,026,027, 3–20–62, Cl. 235—60.

Stinson, John M.: *See*—
Striplin, Marcus M., Jr., Stinson, and Wilbanks. 3,015,552.

Stinson, Robert E. Bow string silencer. 3,059,629, 10–23–62, Cl. 124—23.

Stirrat, William A., to United States of America, Army. Impedance matching circuit in an oscillator utilizing ganged inductors. 3,063,022, 11–6–62, Cl. 331—96.

Stirrup, Frank A. Rolled sheet material dispenser. 3,062,424, 11–6–62, Cl. 225—43.

Stitch, Malcolm L., and M. W. St. Clair, to Varian Associates. High frequency tunable cavity apparatus. 3,030,594, 4–17–62, Cl. 333—83.

Stites, Bernard T., to Precision Auto-Control Electronics Laboratories Inc. Breaker point gap setting means for ignition system distributors. 3,063,153, 11–13–62, Cl. 33—168.

Stites, Joseph G., Jr.: *See*—
McFarlin, Richard F., and Stites. 3,030,179.

Stites, Loren H. Switch. 3,019,313, 1–30–62, Cl. 200—87.

Stitt, James R., and D. J. Dugan, to The R. C. Mahon Co. Fire retardant wall construction. 3,031,044, 4–24–62, Cl. 189—34.

Stix, Thomas H., to United States of America, Atomic Energy Commission. Apparatus for heating a plasma. 3,015,618, 1–2–62, Cl. 204—193.2.

Stjärnkvist, Oskar N., to Aktiebolaget Pharmacia. Photographic developer. 3,022,168, 2–20–62, Cl. 96—66.

Stjernstrom, Lars E.: *See*—
Ericsson, Sten Y., and Stjernstrom. 3,065,139.

Stobbe, Ludwig H. O. Sanitary device for cleansing the hands and arms. 3,066,336, 12–4–62, Cl. 15—21.

Stöbl, Johann, to Maschinenfabrik Benninger A.G. Poor-defiection type roller. 3,055,083, 9–25–62, Cl. 29—116.

Stock, John A.: *See*—
Bergel, Franz, and Stock. 3,032,584.
Bergel, Franz, and Stock. 3,032,585.

Stockard, Jesse L., Jr., to Hughes Tool Co. Unitized drilling bit. 3,061,025, 10–30–62, Cl.175—412.

Stockdale, George F.: *See*—
Layton, Margaret M., Randels and Stockdale. 3,020,456.

Stocker, Arthur C., to Radio Corp. of America. Locating objects viewed by remote television camera. 3,033,923, 5–8–62, Cl. 178—6.8.

Stocker, Emil, and A. Pugin, to J. R. Geigy, A.-G. Process for the production of mixtures of alkali phthalocyanines and metal-free phthalocyanine. 3,060,189, 10–23–62, Cl. 260—314.5.

Stockhausen, Cyril J., and G. B. Nickol. Transparent packaging for bearings. 3,024,579, 3–13–62, Cl. 53—22.

Stocking, Hobart L., to Minnesota Rubber Co. Expandible gun cleaner. 3,064,292, 11–20–62, Cl. 15—104.19.

Stockmeister, Arthur J.: *See*—
Prins, Klaas, and Stockmeister. 3,026,750.

Stockwell, Ephriam J. Catapult launching direction and position indicator. 3,020,005, 2–6–62, Cl. 244—63.

Stoddard, Ashman C.: *See*—
Stoddard, Glenn G. 3,060,751.

Stoddard, Charles H., and J. Layfield, to The Air Preheater Corp. Heat exchanger. 3,024,004, 3–6–62, Cl. 257—267.

Stoddard, Dell, to International Business Machines Corp. High speed mechanical positioning mechanism. 3,057,210, 10–9–62, Cl. 74—1.

Stoddard, Emory F.: *See*—
Hibbard, Oscar L., and Stoddard. 3,025,368.

Stoddard, Glenn G., to Curtiss-Wright Corp., Utica Division. Slip ring assembly. 3,047,827, 7–31–62, Cl. 339—5.

Stoddard, Glenn G., ½ to A. C. Stoddard. Gyro drive. 3,060,751, 10–30–62, Cl. 74—5.

Stoddard, Nicholas J., and W. A. Seem, to Leesona Corp. Method of thermally processing non-thermoplastic yarn. 3,025,659, 3–20–62, Cl. 57—156.

Stoddard, Nicholas J., and W. A. Seem, to Universal Winding Co. Method of making lively thermoplastic yarn. 3,036,423, 5–29–62, Cl. 57—157.

Stoddard, Stephen D., D. E. Nuckolls, and R. E. Cowan, to United States of America, Atomic Energy Commission. Casting slips for fabrication of refractory metal ware. 3,052,532, 9–4–62, Cl. 75—.5.

Stoddard, William B., Jr., to Hanson-Van Winkle-Munning Co. Cleaning aluminum surfaces. 3,041,259, 6–26–62, Cl. 204—141.

Stoddard Aircraft Radio Co., Inc.: *See*—
Leknovich, Henry, and Radmacher. 3,036,181.

Stodola, Edwin K. Automatic temperature relation control systems. 3,061,197, 10–30–62, Cl. 236—68.

Stoeckel, Albert L.: *See*—
Stoeckel, William H., and Stoeckel. 3,021,872.

Stoecker, Alfred A., and A. S. Salkowski. Foldable support case. 3,056,524, 10–2–62, Cl. 220—6.

Stoecker & Kunz G.m.b.H.: *See*—
Frerich, Rudolf. 3,044,499.

Stoeckert, Alvin J., and J. J. Carrona, to Radio Corp. of America. Electron tube stem conductors having improved surface wettability. 3,062,981, 11–6–62, Cl. 313—289.

Stoeckicht, Wilhelm G. Planetary gear transmission. 3,021,-731, 2–20–62, Cl. 74—801.

Stoeckl, Erich: *See*—
Eisele, Julius, Federkiel, Schuster, Gehm, Tartter, Graser, Rohland, and Stoeckl. 3,037,030.

Stoeckli, Oscar W.: *See*—
Calder, Caesar A., and Stoeckli. 3,060,657.

Stoehr, Donald, to United States of America, Navy. Rocket flare head. 3,055,300, 9–25–62, Cl. 102—35.4.

Stoehr, Rudolph O., to Automatic Electric Laboratories, Inc. Cross-connecting board. 3,028,573, 4–3–62, Cl. 339—17.

Stoelting Bros. Co.: *See*—
Stoelting, Carl R., and Detjen. 3,035,420.

Stoelting, Carl R., and E. W. Detjen, to Stoelting Bros. Co. Auger construction for frozen products freezer. 3,035,420, 5–22–62, Cl. 62—342.

Stoermer, William F., to Thompson Ramo Wooldridge Inc. Fuel filtration system. 3,052,358, 9–4–62, Cl. 210—181.

Stoesser, Wesley C.: *See*—
Surine, William R., Pursklove, and Stoesser. 3,061,632.

Stoesser, William F.: *See*—
Gordon, Carroll G. 3,019,805.

Stoff, Fritz: *See*—
Roder, Josef, and Stoff. 3,053,379.

Stoffel, Hans F. Book mark method and apparatus. 3,056,-680, 9–25–62, Cl. 281—42.

Stoffel, Hans F. Display device. 3,064,804, 11–20–62, Cl. 206—80.

Stoffel, Paul J.: *See*—
Beaver, David J., and Stoffel. 3,029,273.
Beaver, David J., and Stoffel. 3,035,093.
Beaver, David J., and Stoffel. 3,061,640.

Stoffel Seals Corp.: *See*—
Anderau, Emil G. 3,032,770.

Stoffels, Robert E., to Automatic Electric Laboratories, Inc. Telegraph signal arrangement for a telephone system. 3,046,340, 7–24–62, Cl. 179—3.

Stoffer, Robert L., and R. F. Van Winkle, to Standard Oil Co. Reduction of distillation tower foaming. 3,027,307, 3–27–62, Cl. 202—160.

Stoffey, Donald G.: *See*—
Maxwell, Richard C., and Stoffey. 3,018,216.

Stogryn, Eugene L.: *See*—
Strohmayer, Herbert F., Minckler, Simko, and Stogryn. 3,066.123.

Stogryn, Eugene L., and H. F. Strohmayer, to Esso Research and Engineering Co. Copolymerization of alkoxyarylethylenes with alpha olefins. 3,070,577, 12–25–62, Cl. 260—62.

Stogryn, Eugene L., and P. A. Argabright, to Esso Research and Engineering Co. Radiochemical sulfonation reaction. 3,048,531, 8–7–62, Cl. 204—162.

Stohlquist, Roger H., to W. F. and John Barnes Co. Apparatus for processing can ends. 3,015,303, 1–2–62, Cl. 118—318.

Stoia, John Z.: *See*—
Schaefer, Carl F., and Stoia. 3,034,191.

Stoker, Riley, Corp.: *See*—
Davey, Gerald F. 3,051,059.
Hawley, Charles F. 3,057,165.
Schmidt, Alexander H. 3,033,144.

Stoker, Robert J., and R. D. Board, to Ingersoll-Rand Co. Condenser contamination removal arrangement. 3,057,602, 10–9–62, Cl. 257—3.

Stokes, Alvin R., 50% to J. Blanks. Drill collar clamp. 3,037,258, 6–5–62, Cl. 24—249.

Stokes. F. J., Corp.: *See*—
Frank, Raymond G. 3,029,470.
Frank, Raymond G. 3,029,752.
Frank, Raymond G. 3,063,390.
Strong, Richard V. D., Hamilton, and Hacker. 3,022,619.

Stokes, William S., to Pilcoflex, Inc. Laminated protective sheath in sheet form and method of applying same to a pipe. 3,033,724, 5–8–62, Cl. 154—50.

Stokke, James A.: *See*—
Kierspe, Raymond L., and Stokke. 3,062,939.

Stokland, Sigmund. Apparatus for distributing fertilizer or other granular material. 3,038,729, 6–12–62, Cl. 275—15.

Stokvis, Samuel R. J. Dolly. 3,029,086, 4–10–62, Cl. 280—28.5.

Stolar, Gerald: *See*—
De Mott, Elmer G., Stegner, and Stolar. 3,026,478.

Stolar, Morris E., to Warner-Lambert Pharmaceutical Co. Method of administering vitamin B_{12}. 3,060,095, 10–23–62, Cl. 167—81.

Stolarski, Paul: *See*—
Kunsch, Joachim, and Stolarski. 3,053,550.

Stoligrosz, Eugene, to Whiripool Corp. Cooking apparatus. 3,063,441, 11–13–62, Cl. 126—21.

Stoll, Arthur, J. Renz, and A. von Wartburg, to Saul & Co., as nominee of Fidelity Union Trust Co. Condensation products of glucosides with carbonyl compound. 3,060,-169, 10–23–62, Cl. 260—210.

Stoll, Curt, K.G. Maschinen u. Apparatebau: *See*—
Stoll, Gottlieb T. 3,042,821.

Stoll, Frank M. Protective device for aircraft control surfaces. 3,044,516, 7–17–62, Cl. 150—52.

Stoll, Friedrich K.: *See*—
Stoll, Karl. 3,033,555.

Stoll, Gerda R. L.: *See*—
Stoll, Karl. 3,033,555.

Stoll, Gottlieb T., to Curt Stoll, K.G. Maschinen u. Apparatebau. Single phase induction motor. 3,042,821, 7–3–62, Cl. 310—166.

Stoll, Karl, ½ to G. R. L. Stoll and ½ to F. K. Stoll, by decree of distribution. Torsion means spring device. 3,033,555, 5–8–62, Cl. 267—57.

Stoll, Mark: *See*—
Stoll, Milton and Mark. 3,039,803.

Stoll, Max, to Firmenick & Co., Successeurs de la Societe Anonyme M. Naef & Cie. Compounds having an ambergris scent and their preparation process. 3,029,255, 4–10–62, Cl. 260—345.2.

Stoll, Milton and Mark to Do-Well Industries, Inc. Magnetic catch. 3,039,803, 6–19–62, Cl. 292—251.5.

Stoll, Paul A., and E. Umbricht, to Epco, Inc. Automated storage equipment. 3,055,813, 9–25–62, Cl. 104—162.

Stoll, Russell F., to Daniel Woodhead Co. Hanger. 3,053,-494, 9–11–62, Cl. 248—228.

Stoll, Willy G.: *See*—
Graf, Wilfried, Schmid, and Stoll. 3,053,904.
Graf, Wilfried, Schmid, and Stoll. 3,055,905.
Graf, Wilfried, Schmid, and Stoll. 3,055,930.

Stollberg, Harry: *See*—
Baker, Dwight L., and Stollberg. 3,039,876.

Stolle, Anthony D.: *See*—
Gallagher, William P., Minard, Stolle, and Gardes. 3,060,288.

Stolle, Anthony D., and R. J. Dykinga, to International Register Co. Timing mechanism. 3,038,040, 6–5–62, Cl. 200—38.

Stolle Corp., The: *See*—
Beck, Edward G. 3,018,543.
Beck, Edward G. 3,024,002.

Stolle, Donald E., to Standard-Vacuum Oil Co. Device for determining surface irregularities. 3,029,522, 4–17–62, Cl. 33—174.

Stolle, Raymond A., to E. S. Tubin. Adjustable reverberation device with muting switch. 3,062,923, 11–6–62, Cl. 179—100.2.

Stolle, Raymond A., and E. S. Tubin; said R. A. Stolle, assor. to said E. Tubin. Sound delay reverberation effect. 3,057,-969, 10–9–62, Cl. 179—100.2.

Stoller, Arthur I., and I. Gordon, to Radio Corp. of America. Magnetic recording medium comprising coatings of ferrite particles of the molar composition aMnO.bZnO.cFe$_2$O$_3$. 3,047,429, 7–31–62, Cl. 117—169.

Stoller, Benjamin N. Windshield wiper attachment. 3,021,-548, 2–20–62, Cl. 15—250.36.

Stollman, Harry E., to Better Belts, Inc. Interchangeable and size adjustable belt construction. 3,017,641, 1–23–62, Cl. 2—322.

Stollman, Irving: *See*—
Chait, Hyman. 3,031,038.
Skupas, John A., and Stollman. 3,060,488.

Stollman, Irving. Caster structure. 3,031,037, 4–24–62, Cl. 188—111.

Stollman, Paul D., to General Electric Co. Polarized attachment plug. 3,039,075, 6–12–62, Cl. 339—184.

Stolp, Donald L. Single body, single operator, double seated valve with predetermined sequential valve seating arrangement. 3,037,739, 6–5–62, Cl. 251—210.

Stolp, Heinz: *See*—
Knoll, Joseph, Bestel, and Stolp. 3,021,882.

Stolper, Harry, to Stolper & Voice Optical Co., Inc. Eyeglass frames of the semi-rimless type. 3,017,806., 1–23–62, Cl. 88—41.

Stolper & Voice Optical Co., Inc.: *See*—
Stolper, Harry. 3,017,806.

Stoltman, Donald D., to General Motors Corp. Water injection control system for internal combustion engine. 3,034,487, 5–15–62, Cl. 123—25.

Stoltz, Herbert C., to AMP Inc. Fluid motor. 3,030,927, 4–24–62, Cl. 121—13.

Stoltz, Herbert C., to AMP Inc. Tool head with removable dies. 3,031,001, 4–24–62, Cl. 153—1.

Stoltz, Myrl R. Lock pin for curlers. 3,045,684, 7–24–62, Cl. 132—40.

Stoltz, Ruth M.: *See*—
Hirsch, Winfred, and Stoltz. 3,029,818.
Hirsch, Winfred, and Stoltz. 3,035,583.

Stoltz, Werner, ½ to P. O. Tobeler, d.b.a. Trans-Oceanic. Combustion turbine. 3,037,351, 6–5–62, Cl. 60—39.35.

Stolwortha, Scott A. Compensating torque shaft assembly. 3,062,023, 11–6–62, Cl. 64—1.

Stolwijk, Jan A. J., to John B. Pierce Foundation. Differential calorimeter. 3,022,664, 2–27–62, Cl. 73—190.

Stolz, Alfred. Watch case holder. 3,022,067, 2–20–62, Cl. 269—127.

Stolzel, Kurt: *See*—
Hass, Karl, Ottersky, and Stolzel. 3,037,928.

Stolzenberger, Adam J.: *See*—
Wasserman, Lee S., and Stolzenberger. 3,052,128.

Stone, Abraham: *See*—
Carey, Ralph G., and Stone. 3,037,281.

Stone, Alton H. Cushioning material. 3,049,260, 8–14–62, Cl. 217—53.

Stone, Arthur F., to Chemical Construction Corp. Apparatus for washing solids from gas streams. 3,057,605, 10–9–62, Cl. 261—22.

Stone, Bobbie D., to Monsanto Chemical Co. Sulfur-nitrogen polymer derived from sulfur dichloride and monomethylamine. 3,040,098, 6–19–62, Cl. 260—583.

Stone, Bobbie D., to Monsanto Chemical Co. Polymers containing sulfur. 3,053,816, 9–11–62, Cl. 260—79.1.

Stone, Carl F., to Manning, Maxwell & Moore, Inc. Crane. 3,061,109, 10–30–62, Cl. 212—4.

Stone, Cecil C., and R. A. Noland, to United States of America, Atomic Energy Commission. Fuel container closure. 3,045,108, 7–17–62, Cl. 219—137.

Stone, Chester, to Ashworth Bros., Inc. Conveyor belt flight clip. 3,055,488, 9–25–62, Cl. 198—198.

Stone, Clinton A.: *See*—
Reiffel, Leonard, and Stone. 3,029,343.

Stone Container Corp.: *See*—
Johnson, Richard H. 3,055,574.

Stone, Cyril J.: *See*—
Shattock, Charles F. B., and Stone. 3,018,137.

Stone, Elmer O., to Sylvania Electric Products Inc. Cathode ray tube spot size measuring device. 3,028,544, 4–3–62, Cl. 324—20.

Stone, Elmer O., and A. T. Kuryla, to Sylvania Electric Products Inc. High resolution C. R. tube. 3,036,238, 5–22–62, Cl. 315—16.

Stone, Gerald, to Hazeltine Research, Inc. Electroluminescent panel. 3,035,178, 5–15–62, Cl. 250—213.

Stone, Guthrie B. Potato flake cutter. 3,020,944, 2–13–62, Cl. 146—117.

Stone, Guthrie B. Packer for flake material. 3,043,350, 7–10–62, Cl. 141—73.

Stone, Guthrie B. Traction pattern for pulley side of conveyor belt. 3,050,178, 8–21–62, Cl. 198—203.

Stone, Guthrie B. Device for removing lumps from drum coatings. 3,058,234, 10–16–62, Cl. 34—110.

Stone, Guthrie B. Hay crusher with pickup. 3,061,995, 11–6–62, Cl. 56—1.

Stone, Henry A., Jr., and R. M. Warner, Jr., to Bell Telephone Laboratories, Inc. Multiple channel field effect semiconductor. 3,061,739, 10–30–62, Cl. 307—88.5.

Stone, Horace A.: *See*—
Gagg, James, Stone, and Gemmell. 3,061,220.

Stone, Howard B., to Robbins & Myers, Inc. Means for D.-C. field excitation in alternator sets. 3,035,222, 5–15–62, Cl. 322—93.

Stone, Irwin M., to Baxter Laboratories, Inc. Process of producing baked confections and the products resulting therefrom by alpha amylase. 3,026,205, 3–20–62, Cl. 99—92.

Stone, Irwin M., to Baxter Laboratories, Inc. Stabilizing of malt beverages. 3,061,439, 10–30–62, Cl. 99—48.

Stone, J., & Co. (Charlton) Ltd.: *See*—
Payne, Ronald J. M., and Webb. 3,049,424.

Stone, John, IV, to The Franklin Institute of the State of Pennsylvania. Series transistor circuit. 3,018,433, 1–23–62, Cl. 323—79.

Stone, John, IV, to The Franklin Institute of the State of Pennsylvania. Transformless transistorized power amplifier. 3,018,445, 1–23–62, Cl. 330—13.

Stone, John K. Shiftable stall structures for parking automobiles. 3,035,717, 5–22–62, Cl. 214—16.1.

Stone, Kyle D., and G. W. Baker, to Stone Mfg. & Supply Co., Inc. Tattoo gun. 3,039,467, 6–19–62, Cl. 128—329.

Stone, Lawrence L.: *See*—
Scalo, Ralph F., and Stone. 3,061,869.

Stone, Leo: *See*—
Decot, Harold T., and Stone. 3,067,424.

Stone Mfg. & Supply Co., Inc.: *See*—
Stone, Kyle D., and Baker. 3,039,467.

Stone, Melvin L.: *See*—
Kuebrich, Herbert P., and Stone. 3,068,337.

Stone, Morris D., to United Engineering and Foundry Co. Calendering apparatus. 3,027,827, 4–3–62, Cl. 100—160.

Stone, Orison W., to Continental Can Co., Inc. Tear line construction for paperboard cartons. 3,036,755, 5–29–62, Cl. 229—51.

Stone, Orison W., to Riegel Paper Corp. Pack for stretch socks. 3,067,865, 12–11–62, Cl. 206—46.

Stone, Orville L.: *See*—
Dewan, John D., and Stone. 3,065,346.

Stone, Oscar T., to Lakeland Equipment Co., Inc. Combination dump and high-lift truck. 3,036,865, 5–29–62, Cl. 298—22.

Stone, Oscar T., to Lakeland Equipment Co., Inc. Gate extension latch. 3,043,456, 7–10–62, Cl. 214—85.

Stone, Paul E.: *See*—
Placco, Oscar F., Stone, and Keyes. 3,019,503.

Stone, Ralph D., and J. F. Cobb, to Mitchell Mfg. Co. Air cooled seat cushion construction. 3,038,176, 6–12–62, Cl. 5—347.

Stone, Raymond L.: *See*—
Mohnkern, Gerald E., and Stone. 3,038,251.

Stone, Richard C., Jr.: *See*—
Seley, Eldon L., and Stone. 3,048,716.

Stone, Robert R., Jr., to United States of America, Navy. Frequency synthesizer employing at least one frequency drift cancellation loop. 3,049,674, 8–14–62, Cl. 331—39.

Stone, Walter V. Animated tooth brushing timer. 3,021,-666, 2–20–62, Cl. 58—152.

Stone, Wilbur E.: *See*—
Blockley, Eugene T., and Stone. 3,017,920.

Stone, William J. D.: *See*—
Jones, George H. 3,021,007.

Stoneberg, Fred J., and R. Dorweiler. Flame cutting torches. 3,029,864, 4–17–62, Cl. 158—27.4.

Stonebraker, Harold E. Billfold safety attachment. 3,032,-088, 5–1–62, Cl. 150—47.

Stonecipher, Chalmer S., to Owens-Corning Fiberglas Corp. Method of applying facing material to a wall surface. 3,044,919, 7–17–62, Cl. 156—71.

Stonehill, Albert A., and H. F. Zoller, to Ethicon, Inc. Anticontamination package assembly for surgical supplies. 3,057,471, 10–9–62, Cl. 206—63.3.

Stonehouse, Albert J.: *See*—
Paine, Robert M., and Stonehouse. 3,055,816.

Stonehouse, Bernard H.: *See*—
Scott, Peter, and Stonehouse. 3,015,472.

Stoner, Arthur M., to The Jacobs Mfg. Co. Chuck and operating key with enlarged pilot. 3,044,790, 7–17–62, Cl. 279—61.

Stoner, Eugene M., to Fairchild Engine and Airplane Corp. Cartridge feeding mechanism. 3,035,495, 5–22–62, Cl. 89—33.

Stoner, Eugene M., to Fairchild Engine and Airplane Corp. Automatic trigger mechanism with three sears and a rotatable control member. 3,045,555, 7–24–62, Cl. 89—142.

Stoner, George G.: *See*—
Albus, Charles P., and Stoner. 3,028,396.

Stoner, George G., and G. C. Wright, to General Aniline & Film Corp. Process of reacting a polymeric N-vinyl lactam with a polymeric carboxylic acid and product obtained thereby. 3,061,569, 10–30–62, Cl. 260—29.6.

Stoner, Leland D. Take-up device. 3,051,299, 8–28–62, Cl. 198—208.

Stoner Rubber Co., Inc.: *See*—
Helmer, Norman D. 3,027,098.

Stone-Wallwork Ltd.: *See*—
Zwicky, John F. 3,056,502.

Stonich, Elwood H.: *See*—
Kmiecik, Leopold J., and Stonich. 3,064,095.

Stookunie N.V.: *See*—
Goossens, Henri J. H. 3,070,113.
Goossens, Henri J. H. 3,070,151.

Stoops, Bobby G.: *See*—
McGay, John B., and Stoops. 3,065,594.

Stoops, Charles E., to Phillips Petroleum Co. Production of alkenylamines. 3,030,288, 4–17–62, Cl. 204—158.

Stoops, Sherman L., and J. E. Bennett, to Sylvania Electric Products Inc. Keyed integrate and dump filter having crystal as integrator. 3,056,890, 10–2–62, Cl. 306—88.5.

Stoothoff, Stanley T., to Minnesota Mining and Mfg. Co. Conveying apparatus. 3,026,994, 3–27–62, Cl. 198—127.

Stoothoff, Stanley T. and W. W., to Minnesota Mining and Mfg. Co. Guide for strip punching machine. 3,034,388, 5–15–62, Cl. 83—444.

Stoothoff, William W. : *See*—
Stoothoff, Stanley T. and W W.. 3,034,388.

Stopek, Benjamin, to Ideal Toy Corp. Furniture construction. 3,031,244, 4–24–62, Cl. 311—100.

Stopps, Alfred L. : *See*—
Kooi, Johan P. E. 3,024,937.

Stora Kopparbergs Bergslags Aktiebolag : *See*—
Ekeorp, Sven G. H., Backstrom, and Kalling. 3,039,753.
Lunden, Olof B., Eftring, and Bjelke. 3,055,794.
Wohlfahrt, Sixten E. S., and Johansson. 3,057,616.

Storage Products Corp. : *See*—
Litteral, Silas, and Step. 3,018,862.

Storchheim, Samuel, to Alloy Research & Mfg. Corp. Porous bearings of aluminum and other metals. 3,063,836, 11–13–62, Cl. 75—224.

Storck, Jack E., and B. F. Callahan, to Allianceware, Inc. Palletized bathtubs, etc. 3,038,601, 6–12–62, Cl. 206—65.

Storckman, Clem F. Portable necktie holder and press. 3,016,130, 1–9–62, Cl. 206—7.

Stord, A/S : *See*—
Onarheim, Thor. 3,026,786.

Storer, John E., Jr., and W. G. Livezey, to General Motors Corp. Transmission. 3,027,780, 4–3–62, Cl. 74—710.

Storer, Richard H., to Associated Advertising Ltd. Attachment collars for paper milk containers. 3,015,901, 1–9–62, Cl. 40—312.

Storey, Alvin B., to Celanese Corp. of America. Dispensing containers. 3,033,396, 5–8–62, Cl. 214—301.

Storey, Charlton H., Jr. : *See*—
Schaelchlin, Walter, and Storey. 3,030,565.

Storey, Frederick M. Molding strips for a luggage case. 3,021,930, 2–20–62, Cl. 190—41.

Storey, Thomas. Pontoon structure. 3,036,539, 5–29–62, Cl. 114—5.

Stork & Co's Apparatenfabriek N.V. Gebr. : *See*—
Laupman, Robert R. 3,049,396.
Laupman, Robert R. 3,050,976.

Stork, Edward S. : *See*—
Jorgensen, Chester N., Stork, and Turner. 3,067,930.

Storm, Albert : *See*—
Poulallion, Paul, and Storm. 3,070,129.

Storm Industries, Inc. : *See*—
Peterson, Seymour. 3,027,871.
Peterson, Seymour. 3,042,184.

Stormer, Joseph E., and J. Jacobs, to General Motors Corp. Preformed gas containing plastic cell and method of manufacture. 3,027,600, 4–3–62, Cl. 18—56.

Storms, John N., to Ametek, Inc. Control device. 3,031,-102, 4–24–62, Cl. 222—16.

Storrow, Richard R. : *See*—
Bullitt, Orville H., Jr., and Storrow. 3,069,375.

Storsand, Bjarne, to Oerlikon Engineering Co. Absorption choke coil, especially for use in high current intensity rectifier plants. 3,059,171, 10–16–62, Cl. 323—61.

Storsand, Bjarne, and K. Orcl, to Oerlikon Engineering Co. Arrangement for the protection of semi-conductor rectifiers connected in parallel. 3,059,166, 10–16–62, Cl. 321—14.

Story, Donald E. Portable vertical reciprocating washer operated by compressed air for cleaning mechanical parts. 3,064,629, 11–20–62, Cl. 121—10.

Story, Malcolm C. Pulling device. 3,020,021, 2–6–62, Cl. 254—161.

Story, Martin W. : *See*—
Abichandani, Krishin P., Krug, Hainsworth, and Story. 3,062,487.

Stothert & Pitt Ltd. : *See*—
Green, Rowland P. 3,062,515.

Stott, Albert M. : *See*—
MacDonald, Hugh D., Jr., Stott, and Waecker. 3,055,619.
Simmons, William H., and Stott. 3,015,462.

Stott, Albert M., to United States of America, Army. Selective multicycle actuator. 3,015,312, 1–2–62, Cl. 121—40.

Stott, Albert M., to United States of America, Army. Encapsulated seat stabilizing mechanism. 3,027,124, 3–27–62, Cl. 244—122.

Stott, Albert M., to United States of America, Army. Rotary thruster with gas operated and manual unlock. 3,033,175, 5–8–62, Cl. 121—97.

Stott, Albert M., to United States of America, Army. Cable coupled actuator. 3,043,093, 7–10–62, Cl. 60—26.1.

Stott, Albert M., to United States of America, Army. Explosively released bolt. 3,053,131, 9–11–62, Cl. 85—7.

Stott, Albert M., and N. J. Waecker, to United States of America, Army. Solid propellant catapult with liquid propellant rocket assist. 3,034,289, 5–15–62, Cl. 60—26.1.

Stott, Frank T., to John Holroyd & Co. Ltd. Tabletting machines. 3,016,572, 1–16–62, Cl. 18—20.

Stotz, Erich : *See*—
Hoenick, Hans, and Stotz. 3,037,395.

Stotz, Ottmar. Window opening device. 3,035,829, 5–22–62, Cl. 268—117.

Stoudenmire, Jay H., to The Bendix Corp. Control transformer synchro remote positioning system. 3,051,882, 8–28–62, Cl. 318—30.

Stoudt, George W., to Bendix-Westinghouse Automotive Air Brake Co. Hose coupling with separable reinforced locking arm. 3,052,489, 9–4–62, Cl. 285—69.

Stoudt, Thomas H., to Merck & Co., Inc. Ring-A dehydrogenation of steroids with nocardia microorganisms. 3,016,335, 1–9–62, Cl. 195—51.

Stough, Donald M. : *See*—
Rice, Owen, and Stough. 3,050,144.

Stough, Donald M., and R. H. Luppold, Jr., to Hagan Chemicals & Controls, Inc. Pressure and temperature corrected fluid flow meters. 3,053,083, 9–11–62, Cl. 73—205.

Stough, Gerald D., to Whitehead & Kales Co. Means for anchoring merchandise carrying racks within the storage chambers of transport vehicles. 3,026,820, 3–27–62, Cl. 105—369.

Stough, Gerald D., and H. V. Collins, to Whitehead & Kales Co. Tie down device. 3,018,079, 1–23–62, Cl. 248—119.

Stoughton, George H. : *See*—
Bayer, Robert J., Cole, and Stoughton. 3,016,689.

Stoughton, Lincoln D., and S. T. Robinson, to United States of America, Atomic Energy Commission. Discharge valve for granular material. 3,034,689, 5–15–62, Cl. 222—525.

Stoughton, Philip N. : *See*—
Brown, Joseph L., Taylor, and Stoughton. 3,048,333.

Stout, Glenn M., and W. M. Nellis, to Standard Conveyor Co. Article transfer system. 3,055,611, 9–25–62, Cl. 243—16.

Stout, Glenn M., and W. M. Nellis, to Standard Conveyor Co. Article transfer system. 3,055,612, 9–25–62, Cl. 243—16.

Stout, Glenn M., and F. W. Temple. Pulse operated magnetically latching relay. 3,067,305, 12–4–62, Cl. 200—93.

Stout, Glenn M., and F. W. Temple. Magnetic device. 3,069,602, 12–18–62, Cl. 317—165.

Stout, Kenneth L. : *See*—
Cook, Jackson. 3,028,631.

Stout, Minor W. Combustion apparatus. 3,032,096, 5–1–62, Cl. 158—1.

Stout, Theophilus P. R. : *See*—
Houser, Warner, and Stout. 3,039,124.

Stout, Theophilus P. R., and W. Houser, to Parker Sweeper Co. Sweeper with hand actuated rear dumping debris receptacle. 3,035,294, 5–22–62, Cl. 15—79.

Stout, William J., S. W. Ferris, and J. D. Tench, to Sun Oil Co. Wax composition. 3,044,917, 7–17–62, Cl. 154—50.

Stover, Edward R., and R. M. Williams, to General Electric Co. Temperature sensitive device. 3,040,580, 6–26–62, Cl. 73—363.5.

Stover, Harry E., to Anchor Hocking Glass Corp. Apparatus for sealing containers. 3,025,875, 3–20–62, Cl. 137—557.

Stover, Harry E., to Anchor Hocking Glass Corp. Device for feeding closure caps. 3,029,918, 4–17–62, Cl. 193—43.

Stover, Harry E., to Anchor Hocking Glass Corp. Adhesive applying mechanism. 3,048,145, 8–7–62, Cl. 118—258.

Stover, Harry E., to Anchor Hocking Glass Corp. Sealing machine and method. 3,054,234, 9–18–62, Cl. 53—38.

Stover, Harry E., to Anchor Hocking Glass Corp. Sealing machine and method. 3,054,241, 9–18–62, Cl. 53—315.

Stover, Harry E., to Anchor Hocking Glass Corp. Detecting mechanism. 3,064,807, 11–20–62, Cl. 209—72.

Stover, Harry E., to Anchor Hocking Glass Corp. Selector hopper. 3,065,841, 11–27–62, Cl. 198—30.

Stover, Harry E., and A. E. Watson, to Anchor Hocking Glass Corp. Rotary container sealing machine. 3,040,492, 6–26–62, Cl. 53—288.

Stover, Richard A., to Vermont Research Corp. Magnetic head mount. 3,047,866, 7–31–62, Cl. 346—74.

Stovold, Frederick C., W. P. Leadley, and R. C. Wilson, to Dominus (England) Ltd. Tape recorders. 3,038,348, 6–12–62, Cl. 74—209.

Stow, Frederic S., Jr. : *See*—
Kouba, Delore L., Paul, and Stow. 3,053,908.

Stowasser, Heribert, to Lohmann K.G. Bandaging material for the treatment of wounds. 3,062,209, 11–6–62, Cl. 128—156.

Stowe, Jack E. : *See*—
Holes, James W., and Stowe. 3,037,618.

Stowell, Austin L. : *See*—
Haigis, Russell J., and Stowell. 3,042,508.

Stoy, Artur. Method and apparatus for manufacturing shaped articles from solutions of acrylonitrile polymers and copolymers. 3,037,240, 6–5–62, Cl. 18—8.

Stoyer, Paul E., and H. E. Valliquette, to R. D. Werner Co. Inc. Method of forming a joint between the rail and rung of a ladder. 3,039,186, 6–19–62, Cl. 29—520.

Stoyke, Ludwig T. : *See*—
MacLeod, Roderick N., and Stoyke. 3,036,558.

Stoyle, Lewis E., Jr., P. A. Ouellette, and E. J. Hanus, to Merck & Co., Inc. Chewable fatty coating of iron particles. 3,035,985, 5–22–62, Cl. 167—82.

Stoyle, Lewis E., Jr., P. A. Ouellette, and E. J. Hanus, to Merck & Co., Inc. Chewable, palatable, vitamin B preparations. 3,037,911, 6–5–62, Cl. 167—81.

Straat, Harold W. : *See*—
De Grave, Charles J., Jr., and Straat. 3,016,795.

Straat, Harold W., to Bausch & Lomb Inc. Fine adjustment mechanism for microscopes. 3,019,707, 2–6–62, Cl. 88—39.

Straat, Harold W., to Bausch & Lomb Inc. Microscope having rotatable and yieldable lens casing. 3,064,529, 11–20–62, Cl. 88—39.

"Straba" Handels-Aktiengesellschaft: *See*—
Sommer, Albert. 3,021,566.
Sommer, Albert. 3,044,373.
Stracca, Giovanni B., to Marelli Lenkurt S.p.A. Hybrid circuits with coaxial transmission lines. 3,068,429, 12–11–62, Cl. 333—11.
Strachan & Henshaw Ltd.: *See*—
Ayre, Comley M. 3,059,921.
Bellinger, Ronald. 3,051,322.
Strachey, Christopher, to International Business Machines Corp. Multiplying-dividing arrangements for electronic digital computing machines. 3,033,457, 5–8–62, Cl. 235—165.
Strachey, Christopher, and D. B. Gillies, to International Business Machines Corp. Overflow control means for electronic digital computers. 3,017,090, 1–16–62, Cl. 235—153.
Strachey, Christopher, and D. B. Gillies, to International Business Machines Corp. Order control arrangements for electronic digital computers. 3,017,094, 1–16–62, Cl. 235—157.
Strack, Charles A.: *See*—
Mekjean, Matthew, and Strack. 3,030,239.
Strack, Rainer, to Firma Tersa A.G. Artificial tooth. 3,027,642, 4–3–62, Cl. 32—8.
Strack, Walter: *See*—
Bostwick, Lee G., and Strack. 3,040,256.
Stradella, Giuseppe, to De Marchi Frattelli, S.p.A. Wristband for watches. 3,042,277, 7–3–62, Cl. 224—4.
Strader, Don S., to The Frank G. Hough Co. Hydraulic power steering arrangement. 3,015,314, 1–2–62, Cl. 121—41.
Strader, Don S., to The Frank G. Hough Co. Priority valve. 3,033,221, 5–8–62, Cl. 137—119.
Strader, William R. Scouring pad holder. 3,015,118, 1–2–62, Cl. 15—209.
Straehl, Robert N., to General Dynamics Corp. Range measurement method. 3,051,946, 8–28–62, Cl. 343—7.3.
Strahan, Donald E. Disk and planter combination. 3,019,747, 2–6–62, Cl. 111—63.
Strahle, Marie Z. Leotards and costumes. 3,023,419, 3–6–62, Cl. 2—78.
Straight, Paul E.: *See*—
Harkins, Robert E., and Straight. 3,047,647.
Strain, Franklin, H. C. Stevens, and G. E. Foltz, to Pittsburgh Plate Glass Co. Process for preparing polycarbonates. 3,046,255, 7–24–62, Cl. 260—77.5.
Strain, Franklin, W. L. Wilson, P. L. Dietz, Jr., W. Hughes, and K. Arkless; said Strain, Wilson, and Dietz, Jr., assors. to Pittsburgh Plate Glass Co., and said Hughes and Arkless assors. to British Titan Products Co. Ltd. Method of preparing metal oxides. 3,068,113, 12–11–62, Cl. 106—300.
Strain, Louis N. Battery testers. 3,060,374, 10–23–62, Cl. 324—29.5.
Strain, Robert C., to General Electric Co. Fluid filling apparatus. 3,023,791, 3–6–62, Cl. 141—270.
Strain, Robert J., and P. Tusa, to Turner Hall Corp. Permanent waving of hair on the human head. 3,025,218, 3–13–62, Cl. 167—87.1.
Straith, Richard E. Surgical instrument. 3,067,748, 12–11–62, Cl. 128—326.
Straka, Oldřich: *See*—
Dubský, Bořivoj, and Straka. 3,039,044.
Dubský, Bořivoj, Straka, and Bican. 3,017,575.
Dubský, Bořivoj, Straka, Felkel, and Feuereisl. 3,035,569.
Dubský, Bořivoj, Straka, Felkel, and Feuereisl. 3,045,666.
Dubsky, Borivoj, Straka, Jahelka, and Sedlacek. 3,042,858.
Dubský, Bořivoj, Straka, Jiřík, and Sedlacek. 3,026,491.
Dubsky, Borivoj, Straka, and Rajhel. 3,023,614.
Dubský, Bořivoj, Straka, and Trefil. 3,020,461.
Strakosch, Clarence P., Jr., E. K. Smith, Jr., and H. A. Wolter, to Diamond National Corp. Packaging. 3,029,570, 4–17–62, Cl. 53—64.
Strakosch, Clarence P., Jr., E. K. Smith, Jr., and H. A. Wolter, to Diamond National Corp. Apparatus for coating predetermined concentric areas. 3,029,781, 4–17–62, Cl. 118—315.
Straley, James M., and R. C. Harris, to Eastman Kodak Co. Monoazo dye compounds for acrylic fibers. 3,043,827, 7–10–62, Cl. 260—152.
Straley, Robert S.: *See*—
Snyder, Christopher L., and Straley. 3,031,649.
Stram, George, to Capitol Products Corp. Discharge valve. 3,020,018, 2–6–62, Cl. 251—58.
Stram, George, A. A. McIntyre, and J. E. Thomas, to Capitol Products Corp. Apparatus for filtration. 3,015,395, 1–2–62, Cl. 210—138.
Stram, George, A. A. McIntyre, and D. L. Geiselman, to Capitol Products Corp. Filtration apparatus. 3,043,434, 7–10–62, Cl. 210—236.
Stram, George H., to Capitol Products Corp. Speed changing mechanism. 3,064,492, 11–20–62, Cl. 74—472.
Stramel, Malcolm N. Cattle spraying apparatus. 3,032,011, 5–1–62, Cl. 119—159.
Stramowski, Edmund J.: *See*—
Schwandes, Elmer A., and Stramowski. 3,052,779.
Strand, Allen H.: *See*—
Grant, Chester A., and Strand. 3,058,416.
Strand, Evelyn E.: *See*—
Strand, Karl I. and E. E. 3,037,230.
Strand, George F., to Rotol Ltd. Fluid operated prime movers. 3,016,911, 1–16–62, Cl. 137—33.
Strand, Karl I. and E. E. Dusting implement. 3,037,230, 6–5–62, Cl. 15—229.
Strand, Robert F.: *See*—
Austin, Raymond C., and Strand. 3,024,098.
Strand, Robert J. Alarm system for parking meters. 3,070,784, 12–25–62, Cl. 340—274.
Strandberg, Charles F., to Strandberg Engineering Laboratories, Inc. Method for determining textile lap weights. 3,035,226, 5–15–62, Cl. 324—65.
Strandberg, Charles F., to Strandberg Engineering Laboratories, Inc. Production integration, method and apparatus. 3,036,766, 5–29–62, Cl. 235—92.
Strandberg Engineering Laboratories, Inc.: *See*—
Strandberg, Charles F. 3,035,226.
Strandberg, Charles F. 3,036,766.
Strandell, Nils E., to Aktiebolaget Bofors. Device for supervising the internal structure of solid bodies and the content thereof. 3,024,363, 3–6–62, Cl. 250—83.3.
Strandskov, Carl V., to Simoniz Co. Polyurethane prepolymer and expanded product prepared therefrom. 3,042,631, 7–3–62, Cl. 260—2.5.
Strandskov, Frede B., J. B. Bockelmann, and V. J. Carroll, to The F. & M. Schaefer Brewing Co. Synthetic organic chemical preservative for beer. 3,048,488, 8–7–62, Cl. 99—48.
Strang, Charles D.: *See*—
Kiekhaefer, Elmer C., and Strang. 3,052,086.
Strang, Peter M., to The Whitin Machine Works. Method of and apparatus for use in carding staple-length textile fiber. 3,036,343, 5–29–62, Cl. 19—104.
Strang, William J., to Bristol Aircraft Ltd. Aircraft. 3,069,115, 12–18–62, Cl. 244—42.
Strange, Harold O.: *See*—
Pellegrini, John P., Jr., and Strange. 3,067,224.
Strange, John P., K. W. Charlton, and W. P. Yant, to Mine Safety Appliance Co. Method and apparatus for continuous separation of components of a gaseous mixture. 3,016,107, 1–9–62, Cl. 183—2.
Straney, Kenneth O.: *See*—
Waite, Ben, James B., and Straney. 3,064,435.
Straniti, Salvatore: *See*—
Stein, Wolfgang J., and Straniti. 3,045,479.
Stransky, Gustave, deceased (M. Hecht, executrix of the estate of G. Stransky), to MacGregor A.G. Water-tight flush hatch cover constructions. 3,045,631, 7–24–62, Cl. 114—201.
Stransky, Gustave, deceased (M. Hecht, executrix of the estate of G. Stransky), to MacGregor A.G. Hatch cover arrangements. 3,045,632, 7–24–62, Cl. 114—202.
Strashun, Sumner I.: *See*—
Dorsey William R., and Strashun. 3,049,426.
Dorsey, William R., and Strashun. 3,060,037.
Strass, Herbert K., to United States of America, National Aeronautics and Space Administration. Motion picture camera for optical pyrometry. 3,041,924, 7–3–62, Cl. 88—16.
Strassberg, Maximilien. Screw-nut assemblies. 3,055,230, 9–25–62, Cl. 74—424.8.
Strassberger, Lothar, and G. Wendlberger, to Suddeutsche Kalkstickstoff-Werke A.G. Preparation of 2,4-diamino-s-triazines. 3,060,181, 10–23–62, Cl. 260—249.9.
Strasser, Edvard: *See*—
Newburry, Max L. 3,061,004.
Strasser, Gabor, to Bell Aerospace Corp. Insulation. 3,052,019, 9–4–62, Cl. 29—424.
Strassner, Jacob E.: *See*—
Parks, Quarist F., Strassner, and Burtch. 3,067,134.
Strategic Material Corp.: *See*—
Chambers, Frank W. 3,050,798.
Johnson, Arthur F. 3,015,553.
Johnson, Arthur F. 3,032,411.
Udy, Marvin J. 3,037,856.
Udy, Marvin J. 3,060,250.
Udy, Marvin J., and Senior. 3,043,681.
Strater, David: *See*—
Coyne, John W. 3,045,386.
Stratford, Alfred E., to Cimex Ltd. Surface-treating tools. 3,021,550, 2–20–62, Cl. 15—359.
Stratford, Brian S., to Power Jets (Research and Development) Ltd. Fluid intake for supersonic flow. 3,054,255, 9–18–62, Cl. 60—35.6.
Stratford, Brian S., to Power Jets (Research and Development) Ltd. Intake for supersonic flow. 3,066,483, 12–4–62, Cl. 60—35.6.
Stratford Engineering Corp.: *See*—
Stratford, Herbert W. 3,027,243.
Stratford, Herbert W. 3,056,831.
Webb, Orlando, Jr. 3,027,242.
Webb, Orlando, Jr. 3,055,958.
Stratford, H. W., Co., Inc.: *See*—
Stratford, Herbert W. 3,047,215.
Stratford, Herbert W., to Stratford Engineering Corp. Reaction vessel with internal circulation tube and agitator. 3,027,243, 3–27–62, Cl. 23—285.
Stratford, Herbert W., to H. W. Stratford Co., Inc. Apparatus for separating liquids of different densities. 3,047,215, 7–31–62, Cl. 233—31.
Stratford, Herbert W., to Stratford Engineering Corp. Sulfur trioxide sulfonation method. 3,056,831, 10–2–62, Cl. 260—505.

Strathearn, Donald M., to Controls Co. of America. Timer. 3,042,763, 7–3–62, Cl. 200—38.

Strathearn, Donald M., and J. M. Thornbery, to Controls Co. of America. Sequence timer. 3,028,458, 4–3–62, Cl. 200—38.

Strating, Jan, G. Moes, and W. F. Vogel, to W. A. Scholten's Chemische Fabrieken N.V. Polysaccharide-sultone reaction products. 3,046,272, 7–24–62, Cl. 260—233.3.

Stratman, Millard F., to The R. K. Le Blond Machine Tool Co. Method and apparatus for reproducing contours. 3,024,684, 3–13–62, Cl. 82—14.

Strato-Missiles, Inc.: *See*—
Hatfield, Cleburne B. 3,024,596.

Stratton, Charles A., to Phillips Petroleum Co. Fracturing formations in wells. 3,070,165, 12–25–62, Cl. 166—42.

Stratton, Charles A., A. C. Pitchford, and H. J. Sarrett, Jr., to Phillips Petroleum Co. Drilling fluid. 3,028,333, 4–3–62, Cl. 252—8.5.

Stratton, Edwin J. D., and D. J. Steidinger, to Varco, Inc. Envelopes having gummed flaps formed with tape. 3,026,-018, 3–20–62, Cl. 229—69.

Stratton Equipment Co., The: *See*—
Stratton, Ronald R. 3,059,791.

Stratton, Hal: *See*—
Bauer, Robert F., and Stratton. 3,043,255.
Rhodes, Aaron D., and Stratton. 3,017,934.

Stratton, Hal D., Shell Oil Co., Continental Oil Co., The Superior Oil Co., and Union Oil Co. of California. Method and apparatus for underwater drilling. 3,015,360, 1–2–62, Cl. 166—46.

Stratton, James L. Safety brake valve. 3,018,786, 1–30–62, Cl. 137—118.

Stratton, James L. Safety brake valve. 3,032,052, 5–1–62, Cl. 137—102.

Stratton, Jerry L., to General Electric Co. Low cost controller. 3,034,023, 5–8–62, Cl. 317—146.

Stratton, Kenneth E.: *See*—
Shaffer, Paul C., Stratton, and Zidar. 3,034,778.

Stratton, Lawrence J.: *See*—
Cecil, James R., and Stratton. 3,032,700.
Chirgwin, Keith M., and Stratton. 3,054,940.
Chirgwin, Keith M., and Stratton. 3,070,740.

Stratton, Ronald R., to The Stratton Equipment Co. Garbage loader. 3,059,791, 10–23–62, Cl. 214—83.32.

Stratton, William G., and J. H. Weis, to General Electric Co. Ferrite core splitting process. 3,028,660, 4–10–62, Cl. 29—155.56.

Straub, Albert, to Eugen Bauer, G.m.b.H. Motion picture projector change-over shutter. 3,064,521, 11–20–62, Cl. 88—17.

Straub, Dieter: *See*—
Haupt, Wilhelm, Kelch, and Straub. 3,031,103.

Straub, Frederick A., E. Sahagian, and K. R. M. Karlstrom, to Kahr Bearing Corp. Method of making low friction greaseless bearings. 3,063,133, 11–13–62, Cl. 29—149.5.

Straub, Harold E., and E. F. Averill, to Titus Mfg. Corp. Air deflectors or diffusers and throw control devices therefor. 3,046,866, 7–31–62, Cl. 98—40.

Straub, Hermann, to Zahnradfabrik Friedrichshafen Aktiengesellschaft. Electromagnetic friction clutch having stationary solenoid magnet. 3,066,781, 12–4–62, Cl. 192—84.

Straub, Melvin J.: *See*—
Possi, Zinon C., Straub, Lobash, Johnson, and Solem. 3,063,212.
Possis, Zinon C., Johnson, and Straub. 3,065,771.

Straub, Melvin J., R. E. Shortell, F. Lobash, D. H. Doying, and J. C. Jounen, to R. Mansfield. Armature insulating machine. 3,061,909, 11–6–62, Cl. 29—33.

Straub, Otto, and P. Zeller, to Hoffmann-La Roche Inc. Hydrazine derivatives. 3,031,479, 4–24–62, Cl. 260—404.5.

Straubing, Charles R., to Kenmore Machine Products, Inc. Apparatus for spinning metal tubing to prevent oxidation of parts subjected to heat of friction. 3,045,741, 7–24–62, Cl. 153—81.

Strauchen, Alfred, and J. Breslerman, 33.3% to Fertilizers and Chemicals Ltd. Process for the manufacture of dicalcium phosphate. 3,033,669, 5–8–62, Cl. 71—39.

Straughan, John R., R. Stickle, Jr., and W. F. Hill, Jr., to Union Carbide Corp. Coating compositions comprising a resinous copolymer having a reduced viscosity of 0.2 to 0.8 and a second order transition temperature of 45° C. to 125° C. 3,057,812, 10–9–62, Cl. 260—29.6.

Straumann, Reinhard, and K. Karpf, to Institut Dr. Ing. Reinhard Straumann A.G. Heat treatment apparatus. 3,041,058, 6–26–62, Cl. 266—5.

Straumann, Reinhard, to Institut Dr. Ing. Reinhard Straumann A.G. Temperature-compensated springs. 3,041,163, 6–26–62, Cl. 75—123.

Straus, S. Charles, to Cincinnati Mfg. Corp. Variable pitch driving system. 3,049,932, 8–21–62, Cl. 74—230.17.

Straus, Samuel C., to Cincinnati Mfg. Corp. Adjustable spindle bearing. 3,026,156, 3–20–62, Cl. 308—207.

Strausak & Cie Maschinenfabrik und Apparatebau Lohn: *See*—
Enghofer, Emil. 3,030,866.

Strauss, Bruno: *See*—
Glaser, Raymond A., Strauss, and Weinstein. 3,062,057.

Strauss, Herman H., to Crown Zellerbach Corp. Fire kindling device. 3,031,277, 4–24–62, Cl. 44—40.

Strauss, Howard J.: *See*—
Smith, William W., and Strauss. 3,057,942.
Tower, Walter R., Strauss, and Tereszkiewicz. 3,034,117.

Strauss, Howard J., to The Electric Storage Battery Co. Gas permeable negative electrode. 3,057,943, 10–9–62, Cl. 136—6.

Strauss, Howard J., and C. C. White, to The Electric Storage Battery Co. Battery electrode and method of making the same. 3,053,924, 9–11–62, Cl. 136—30.

Strauss, Howard W., to E. I. du Pont de Nemours and Co. Propane telomerized ethylene-vinyl acetate copolymer. 3,029,230, 4–10–62, Cl. 260—87.3.

Strauss, Howard W., to E. I. du Pont de Nemours and Co. Copolymers of ethylene and vinyl alkyl ethers. 3,033,840, 5–8–62, Cl. 260—88.1.

Strauss, Irving. Lockable jaw clamp. 3,028,577, 4–3–62, Cl. 339—255.

Strauss, Irving. Switching apparatus. 3,053,098, 9–11–62, Cl. 74—2.

Strauss, Joseph, to Trenton Times Corp. Coating table apparatus. 3,028,836, 4–10–62, Cl. 118—500.

Strauss, Joseph, to Trenton Times Corp. Method and apparatus for making printing plates. 3,043,693, 7–10–62, Cl. 96—36.

Strauss, Ray C. Starter control. 3,035,563, 5–22–62, Cl. 123—179.

Strauss, Rudolf S.: *See*—
Barnes, Allan F. C., Elliott, and Strauss. 3,056,370.

Strauss, Walter S., to Hanau Engineering Co., Inc. Solenoid operated valve. 3,064,936, 11–20–62, Cl. 251—141.

Strauss, Wennemar: *See*—
Willmund, Wolf-Dieter, and Strauss. 3,023,150.

Strauss, Wennemar, G. Michael, and W.-D. Willmund, to Dehydag, Deutsche Hydrierwerke G.m.b.H. Nickel electroplating baths. 3,023,151, 2–27–62, Cl. 204—49.

Strauss, Wennemar, and H. Wedell, to Dehydag, Deutsche Hydrierwerke G.m.b.H. Copper electroplating baths. 3,023,152, 2–27–62, Cl. 204—52.

Strauss, Wennemar, W. Gundel, A. Kirstahler, and W.-D. Willmund, to Dehydag, Deutsche Hydrierwerke G.m.b.H. Process for the production of metal electrodeposits. 3,030,283, 4–17–62, Cl. 204—52.

Strauss, Wennemar, G. Michael, and K.-H. Worms, to Dehydag, Deutsche Hydrierwerke G.m.b.H. Wetting agents for electroplating baths. 3,035,991, 5–22–62, Cl. 204—51.

Strauss, Wennemar, and W.-D. Willmund, to Dehydag, Deutsche Hydrierwerke G.m.b.H. Baths for the production of copper electroplates. 3,051,634, 8–28–62, Cl. 204—52.

Straussler, Nicholas P. S. Folding boat. 3,056,147, 10–2–62, Cl. 9—2.

Straw, Douglas: *See*—
Herrick, Clifford E., Jr., LaFreniere, and Straw. 3,015,-562.

Straw, Frank J. Suspension device. 3,059,721, 10–23–62, Cl. 182—13.

Straw, Jesse H.: *See*—
Schlenker, Raymond A., and Straw. 3,028,675.

Straw, Ray: *See*—
Kiechel, Fred C., and Straw. 3,057,089.

Strawinski, Jay F. Polyvinyl alcohol complex film. 3,048,-511, 8–7–62, Cl. 154—50.

Strayer, Donald R., to Perfection Finishing Corp. Golf ball structure. 3,031,194, 4–24–62, Cl. 273—213.

Strazdas, Ernest A. Back plasters. 3,068,860, 12–18–62, Cl. 128—78.

Streater, August L., to General Electric Co. Alternating current circuit interrupter. 3,065,317, 11–20–62, Cl. 200—87.

Strebeigh, Robert M. Shower curtain or the like. 3,035,275, 5–22–62, Cl. 4—154.

Strebel, Walter: *See*—
Alkire, Edmond M., and Strebel. 3,064,668.

Streck, Clemens, to General Aniline & Film Corp. Metallizing azoic dyeings. 3,061,397, 10–30–62, Cl. 8—42.

Strecker, Harold A., to The Standard Oil Co. Regeneration of adsorbent material. 3,024,203, 3–6–62, Cl. 252—413.

Street, Brian F.: *See*—
Reay, Walter H., Street, and King. 3,056,769.

Street, Louis F., to Welding Engineers, Inc. Material treating apparatus and method. 3,068,514, 12–18–62, Cl. 18—12.

Street, Norman F. Cyclical automatic control apparatus. 3,053,988, 9–11–62, Cl. 250—231.

Streeter-Amet Co.: *See*—
Goslin, Thomas P., and Morrison. 3,036,769.

Streeter, Donald N., to International Business Machines Corp. Tape position sensing device. 3,027,059, 3–27–62, Cl. 226—45.

Streeter, John E.: *See*—
Sharp, Carl R., and Streeter. 3,022,012.

Streeter, Kenneth E.: *See*—
Woodcock, Donald N., and Streeter. 3,069,176.

Strehle, Horst, to VEB Kamera- und Kinowerke Dresden. Photo-electric exposure meter device. 3,048,091, 8–7–62, Cl. 95—10.

Streib, William C., and J. G. Rowe III, to Johns-Manville Corp. Asbestos fibers in mine roof coatings. 3,055,434, 9–25–62, Cl. 169—2.

Streich, John, and W. E. Jones, to Shell Oil Co. Process for producing trialkyl phosphites. 3,068,269, 12–11–62, Cl. 260—461.

Streicher, Kurt: *See*—
Ruhrmann, Josef, Streicher, and Popovitsch. 3,015,868.
Ruhrmann, Josef, Streicher, and Popovitsch. 3,054,171.

Streicher, Kurt, to Talon, Inc. Method for the production of closure elements for slide fasteners. 3,054,149, 9–18–62, Cl. 18—56.
Streit, Alfons, and A. Stwiorok. Valve gear. 3,016,887, 1–16–62, Cl. 123—90.
Streit, Clarence T., to Pines Engineering Co., Inc. Tube bending machine. 3,017,917, 1–23–62, Cl. 153—45.
Streit, Rudolf: *See*—
Kappeler, Hans, and Streit. 3,028,453.
Tschumi, Otto, Kappeler, and Streit. 3,046,353.
Streit, Rudolf, to Autophon Aktiengesellschaft. Telephone sub-stations including transistors. 3,068,325, 12–11–62, Cl. 179—81.
Strellec, Francis J.: *See*—
Anderson, John E., Franke, and Strellec. 3,060,197.
Stremke, William F. and W. F., Jr., and R. R. Pazderski. Wrapping machine with return conveyor. 3,016,671, 1–16–62, Cl. 53—206.
Stremke, William F. and W. F., Jr., and R. R. Pazderski. Semi-automatic wrapping machine. 3,045,406, 7–24–62, Cl. 53—209.
Stremke, William F., Jr.: *See*—
Stremke, William F. and W. F., Jr., and Pazderski. 3,016,671.
Stremke, William F. and W. F., Jr., and Pazderski. 3,040,496.
Stremmel, William G. Extension accessory for caulking tube. 3,058,632, 10–16–62, Cl. 222—567.
Stresau, Richard H.: *See*—
Savitt, Jacob, Stresau, and Weber. 3,062,143.
Stresau, Richard H. F., and J. W. Derwin, to United States of America, Navy. Booster cup and method of making same. 3,045,524, 7–24–62, Cl. 86—1.
Stretch Togs, Inc.: *See*—
Halperin, Bernard. 3,034,136.
Stretton, Henry J., to G. D. Peters & Co., Ltd. Means for automatically operating doors and other devices. 3,067,993, 12–11–62, Cl. 268—34.
Streu, Benno: *See*—
Laeufer, Walter, and Streu. 3,031,250.
Streubel, Theodore. Gravity actuated airplane control. 3,032,296, 5–1–62, Cl. 244—80.
Streuber, Hans-Peter. Exchange device for the contact of gases and liquids. 3,047,278, 7–31–62, Cl. 261—114.
Streuber, Hans-Peter. Plate for columns for the exchange of materials. 3,053,520, 9–11–62, Cl. 261—114.
Strianese, Bernard V., and J. B. O'Maley, to said B. V. Strianese. Measuring system employing digital electronic circuitry. 3,024,986, 3–13–62, Cl. 235—92.
Strick, Rudolf P. Fluid motor with sequence valve. 3,027,876, 4–3–62, Cl. 121—38.
Strick Trailers, a Division of Fruehauf Trailer Co.: *See*—
Abolins, Andrew. 3,024,042.
Abolins, Andrew, and Hitch. 3,052,941.
Stricker, Edward G., to Goodyear Aircraft Corp. Thrust vectoring apparatus. 3,069,852, 12–25–62, Cl. 60—35.55.
Stricker, George O.: *See*—
Hutter, Clemens A., and Stricker. 3,032,181.
Strickland, Conrad C., to Prime Mfg. Co. Ribbed insole and blank therefor. 3,066,426, 12–4–62, Cl. 36—22.
Strickland, Edward T., to Philbrick-Strickland Laminates, Inc. Process for making a wound laminate and article thereof. 3,031,361, 4–24–62, Cl. 154—43.
Strickland, Edward T., and H. C. Amos, to Philbrick-Strickland Laminates, Inc. Article curing mechanism. 3,043,017, 7–10–62, Cl. 34—104.
Strickland, Wyatt B., to Thyco Engineering Corp. Radial pump or motor. 3,063,380, 11–13–62, Cl. 103—161.
Stricklin, Travie W., Jr.: *See*—
Allerdice, Joseph M., and Stricklin. 3,021,130.
Strickman, Alfred E. Fireplace log molder. 3,070,485, 12–25–62, Cl. 162—135.
Strider, Pierce W. Combination 6 volt and 12 volt battery. 3,029,301, 4–10–62, Cl. 136—181.
Strier, Murray P.: *See*—
Arquette, Gordon J., Dixler, and Strier. 3,017,260.
Strifler, Paul E.: *See*—
Stump, Eugen, and Strifler. 3,024,006.
Stump, Eugen, and Strifler. 3,051,506.
Stright, Paul L.: *See*—
Roper, Robert, and Stright. 3,070,158.
Strike, George N. Clothes pre-conditioner and dryer. 3,020,648, 2–13–62, Cl. 34—133.
Striley, David J.: *See*—
Bakan, Joseph A., Striley, and Maierson. 3,020,171.
Strimel, Robert S., to Tinius Olsen Testing Machine Co. Piston-centering means for hydraulic testing machines or the like. 3,015,315, 1–2–62, Cl. 121—46.
Stringer, Artis W. Automotive accelerator pedal. 3,065,649, 11–27–62, Cl. 74—560.
Stringer, David P. Carrier. 3,037,216, 6–5–62, Cl. 5—118.
Stringer, John B.: *See*—
Davis, Charles H., and Stringer. 3,032,267.
Newman, Edward A., and Stringer. 3,048,334.
Stringer, Loren F., and J. W. Stuart, to Westinghouse Electric Corp. Workpiece counter apparatus. 3,063,632, 11–13–62, Cl. 235—98.
Striplin, Marcus M., Jr., D. McKnight, and E. C. Marks, to Tennessee Valley Authority. Manufacture of superphosphoric acid. 3,015,540, 1–2–62, Cl. 23—165.
Striplin, Marcus M., Jr., J. M. Stinson, and J. A. Wilbanks, to Tennessee Valley Authority. Process for preparing stable liquid fertilizer and product thereof. 3,015,552, 1–2–62, Cl. 71—41.
Stripling, Allen A., to Socony Mobil Oil Co., Inc. Delayed acoustic velocity signal transmission. 3,022,488, 2–20–62, Cl. 340—15.
Stripp, Richard W.: *See*—
Hutchison, Frank C., Stripp, and Tibbetts. 3,059,577.
Strnad, James J.: *See*—
Blazek, William J., and Strnad. 3,032,376.
Strnad, James J., to Lempco Products, Inc. Master coupling link. 3,020,096, 2–6–62, Cl. 305—58.
Strnad, James J., to Lempco Products, Inc. Interchangeable die sets. 3,062,083, 11–6–62, Cl. 83—637.
Strobel, Albert F.: *See*—
Catino, Sigmund C. Strobel, and Williams. 3,022,284.
Strobel, Albert F., and S. C. Catino, to General Aniline & Film Corp. Ultra-violet light stabilized organic compositions. 3,052,636, 9–4–62, Cl. 252—300.
Strobel, Albert F., and S. C. Catino, to General Aniline & Film Corp. Bis-α-cyanocinnamic acid esters. 3,069,456, 12–18–62, Cl. 260—465.
Strobel, Charles K., G. F. Conner, and R. G. McMichael, to Robertshaw-Fulton Controls Co. Humidity indicators and substrates. 3,034,354, 5–15–62, Cl. 73—337.
Strobelt, Walter: *See*—
Kraust, Rudolf, and Strobelt. 3,019,298.
Stroh, Rudolf: *See*—
Ebersberger, Josef, Holtschmidt, and Stroh. 3,064,056.
Gerber, Hanns, and Stroh. 3,038,935.
Gerber, Hanns, and Stroh. 3,044,975.
Hausweiler, Arnold, Seydel, and Stroh. 3,029,276.
Seydel, Robert, Kempermann, Hahn, and Stroh. 3,048,563.
Von Falkai, Bela, Haberland, Reichle, and Stroh. 3,036,046.
Stroh, Rudolf, and K. Nützel, to Bayer Aktiengesellschaft, Farbenfabriken. Polymerization of ethylenically unsaturated compounds using monovalent magnesium halide catalyst. 3,048,571, 8–7–62, Cl. 260—88.7.
Stroh, Rudolf, and R. Seydel, to Farbenfabriken Bayer Aktiengesellschaft. Phenol alkylation process. 3,051,762, 8–28–62, Cl. 260—624.
Strohm, William G.: *See*—
Yourke, Hannon S., and Strohm. 3,018,390.
Strohmaier, Erna M.: *See*—
Strohmaier, Richard G. and E. M. 3,064,695.
Strohmaier, Richard G. and E. M. Wire splicing tools. 3,064,695, 11–20–62, Cl. 140—124.
Strohmayer, Herbert F.: *See*—
Stogryn, Eugene L., and Strohmayer. 3,070,577.
Strohmayer, Herbert F., L. S. Minckler, Jr., J. P. Simko, Jr., and E. L. Stogryn, to Esso Research and Engineering Co. Activated friedel-crafts catalysts for polymerization. 3,066,123, 11–27–62, Cl. 260—93.1.
Strohmeier, Harald, to Gebr. Bohler & Co. Aktiengesellschaft. Apparatus for applying a coating on welding electrode material. 3,019,484, 2–6–62, Cl. 18—12.
Strohmeier, Harald, to Bohler & Co. Aktiengesellschaft, Gebr. Means for removing coating from the ends of a conductive core of a welding electrode. 3,063,078, 11–13–62, Cl. 15—4.
Strok, Gilbert: *See*—
Ringold, Howard J., Sondheimer, Rosenkranz, Strok, and Djerassi. 3,065,226.
Strole, Dieter: *See*—
Anke, Klaus, Kessler, and Strole. 3,044,704.
Strolle, Clifford H., to E. I. du Pont de Nemours and Co. Coating compositions containing styrene, ethyl acrylate, methacrylic acid interpolymers. 3,068,183, 12–11–62, Cl. 260—21.
Strollee of California, Inc.: *See*—
Neal, Albert D. 3,044,079.
Strom, Albert, to The Ibex Development Co. Cabinet panel and connecting means therefor. 3,059,983, 10–23–62, Cl. 312—108.
Strom, Albert P.: *See*—
Gainer, Gordon C., and Strom. 3,059,081.
Strom, Charles F., and J. Wszolek, to Griffin Wheel Co. Bottom casting articles. 3,015,863, 1–9–62, Cl. 22—79.
Strom, Edgar T. Cattle feeder. 3,020,881, 2–13–62, Cl. 119—58.
Strom, Edgar T. Door stop. 3,042,959, 7–10–62, Cl. 16—86.
Strom, Frank I.: *See*—
Miskel, John J., Strom, Michel, and Tancredi. 3,026,873.
Strom, William M.: *See*—
Polar, Lincoln M., Cheuvront, Ingalls, Strom, and Muir. 3,025,750.
Strombeck-Becker Mfg. Co.: *See*—
Schlan, Floyd E. 3,022,070.
Schlan, Floyd E. 3,027,682.
Strombeck, Leo: *See*—
Anderson, Swan F., and Strombeck. 3,045,405.
Stromberg, Henry, to Claudo Aktiebolag. Cam actuated valve. 3,064,941, 11–20–62, Cl. 251—260.
Stromberg, Verner L.: *See*—
Godar, Richard L., and Stromberg. 3,030,197.
Hughes, William B., and Stromberg. 3,017,352.
Hughes, William B., and Stromberg. 3,017,356.
Hughes, William B., and Stromberg. 3,018,246.
Hughes, William B., and Stromberg. 3,020,276.

Stromberg, Verner L., to Petrolite Corp. Ester-amide-acid compounds. 3,037,051, 5–29–62, Cl. 260—485.

Stromberg, Verner L., to Petrolite Corp. Partial amides. 3,056,832, 10–2–62, Cl. 260—518.

Stroms, Karl F., to The Cincinnati Milling Machine Co. Adjustable guide bushing. 3,060,773, 10–30–62, Cl. 78—97.

Strong, Bernard, to E. Shipton & Co. Ltd. Method of and apparatus for the manufacture of hollow plastic articles. 3,021,559, 2–20–62, Cl. 18—5.

Strong Cobb Arner, Inc. : *See*—
Fricke, George R. 3,064,808.

Strong, Corrin P. Holding pin. 3,026,588, 3–27–62, Cl. 24—76.

Strong, Douglas H., to Clevite Corp. Method of using a material as a rolling contact bearing. 3,052,954, 9–11–62, Cl. 29—148.4.

Strong, Frank M., F. Skoog, and C. O. Miller, to Wisconsin Alumni Research Foundation. Composition for vegetative propagation of plants. 3,070,432, 12–25–62, Cl. 71—2.5.

Strong, Herbert D., Jr., to United States of America, Army. Fastening device. 3,059,949, 10–23–62, Cl. 287—20.

Strong, Herbert M. to General Electric Co. High pressure reaction vessel. 3,030,661, 4–24–62, Cl. 18—34.

Strong, Herbert M., to General Electric Co. Pressure distribution in reaction vessels. 3,030,662, 4–24–62, Cl. 18—34.

Strong, Raymond B., to National Pressed Steel Roofing Co. Animal feeder. 3,067,722, 12–11–62, Cl. 119—53.5.

Strong, Richard V. D., W. H. Hamilton, and E. W. Hacker, to P. J. Stokes Corp. Vacuum chest bottle stoppering apparatus. 3,022,619, 2–27–62, Cl. 53—106.

Strong, Robert A. Garment hanging means. 3,039,662, 6–19–62, Cl. 223—89.

Strong-Scott Mfg. Co. : *See*—
Langsetmo, Peder, Swanson, and Work. 3,038,672.

Strongwater, Murray. Glove package. 3,036,701, 5–29–62, Cl. 206—46.

Stroop, John H., to Vol-Pak, Inc. Strip packaging sampler booklet. 3,044,229, 7–17–62, Cl. 53—28.

Stroop, John H., to Vol-Pak, Inc. Multi-purpose packaging machine. 3,054,236, 9–18–62, Cl. 53—180.

Strother, Fred P., to West Point Mfg. Co. Apparatus for counting neps. 3,019,972, 2–6–62, Cl. 235—92.

Strother, Fred P., to West Point Mfg. Co. Method and apparatus for counting imperfections of strand material. 3,030,-853, 4–24–62, Cl. 88—14.

Strother, Fred P., to West Point Mfg. Co. Multiple photocells. 3,037,122, 5–29–62, Cl. 250—211.

Strother, Fred P., to West Point Mfg. Co. Miniature photocells and method of making the same. 3,069,487, 12–18–62, Cl. 136—89.

Stroud, Edward A. : *See*—
Stroud, William F. 3,026,107.

Stroud, John M., J. C. Webster, F. A. Steiner, and S. H. Sessions, to United States of America, Navy. Readout on demand tape storage device. 3,041,417, 6–26–62, Cl. 179—100.2.

Stroud, Lowell : *See*—
Brandt, Luther W., Stroud, and Deaton. 3,027,750.

Stroud, Nolan A. Live bait hook. 3,061,968, 11–6–62, Cl. 43—44.8.

Stroud, Stanley G. : *See*—
Martin, Philip W., and Stroud. 3,020,408.

Stroud, Vincent D., and H. S. Grant. Two-way radio telephone system utilizing frequency subbands to provide transmitter-receiver isolation. 3,022,504, 2–20–62, Cl. 343—178.

Stroud, William F., ½ to E. A. Stroud, and ½ to E. Bridgeman. Collating apparatus for printing machines. 3,026,-107, 3–20–62, Cl. 270—58.

Stroup, Earl L. : *See*—
Pemberton, Paul E., and Stroup. 3,060,491.

Stroup, Earl L., to Overhead Door Corp. Vertically acting door. 3,034,575, 5–15–62, Cl. 160—40.

Stroup, Earl L., F. D. Crosswell, and C. A. Schacht, to Overhead Door Corp. Upwardly acting door having a torsion spring counterbalance. 3,038,535, 6–12–62, Cl. 160—191.

Stroup, Lelia P., to Sierra Engineering Co. Patient supporting device. 3,032,780, 5–8–62, Cl. 5—327.

Strout, Raymond D. : *See*—
Staples, Lynn W., and Strout. 3,039,763.

Strout, Raymond D., and L. W. Staples. Springs for seats and backs. 3,024,016, 3–6–62, Cl. 267—1.

Strozewski, Richard J., to National-Standard Co. Former for bead building machines or the like. 3,051,221, 8–28–62, Cl. 156—422.

Strub, Henry M., Jr., and C. C. Michalek, to The Duplan Corp. Coiled textile strand and method of producing same. 3,025,-661, 3–20–62, Cl. 57—157.

Strub, Rene, to Sulzer Freres, S.A. Bearing comprising polytetrafluoroethylene and phosphate glass. 3,067,135, 12–4–62, Cl. 252—12.

Strube, Richard E., to The Upjohn Co. 2-trifluoroacetamido-5-nitropyrimidine. 3,022,306, 2–20–62, Cl. 260—256.4.

Strube, Richard E., R. D. Birkenmeyer, and F. Kagan, to The Upjohn Co. Benzyl phosphoric acid ester compounds and process for making same. 3,052,709, 9–4–62, Cl. 260—461.

Struben, Francis L., ½ to J. C. Struben. Interlocking extrusions. 3,018,859, 1–30–62, Cl. 189—34.

Struben, Jean C. : *See*—
Struben, Francis L. 3,018,859.

Struble, Albert, and M. L. Moffitt, Jr. Headrest cover. 3,063,-749, 11–13–62, Cl. 297—220.

Struble, Glenn E., to Diamond National Corp. Open bottom tray blank. 3,016,180, 1–9–62, Cl. 229—37.

Struble, Glenn E., to Diamond National Corp. Boot support of inverted U-shaped configuration. 3,041,643, 7–3–62, Cl. 12—128.

Struble, Glenn E., to Diamond National Corp. Carton with lock top lid. 3,058,578, 10–16–62, Cl. 206—8.

Struble, Glenn E., and F. T. King, to Diamond National Corp. Bottle carrier. 3,053,411, 9–11–62, Cl. 220—113.

Struck, Charles R. Fluid sampling device. 3,031,890, 5–1–62, Cl. 73—422.

Struck, Robert T. : *See*—
Gorin, Everett, and Struck. 3,047,472.

Struckmann, Holger. Spiraling brick arch construction for rotary kiln. 3,057,612, 10–9–62, Cl. 263—33.

Structural Clay Products Research Foundation : *See*—
Edmonds, Harvey A., and Hadsel. 3,039,593.
Woguis, John P., Kerruish, and Monk. 3,058,190.

Structural Concrete Components Ltd. : *See*—
Sainty, Christopher L. 3,036,333.
Sainty, Christopher L. 3,042,388.

Structural Electric Products Corp. : *See*—
Angier, James F. 3,015,717.

Structural Fibers, Inc. : *See*—
Randolph, Donald W. Re. 25,241.

Strugala, Alfred, W. Sporenberg, and H. Schmidt, to Wagner & Co. Annealing process and apparatus. 3,064,507, 11–20–62, Cl. 78—9.

Strull, Gene, to Westinghouse Electric Corp. Oscillator having predetermined temperature-frequency characteristics. 3,023,347, 2–27–62, Cl. 317—234.

Strull, Gene, to Westinghouse Electric Corp. Configuration for semiconductor devices. 3,063,879, 11–13–62, Cl. 148—33.

Strull, Gene, to Westinghouse Electric Corp. Semiconductor device. 3,064,132, 11–13–62, Cl. 250—211.

Strull, Gene, and H. W. Henkels, to Westinghouse Electric Corp. Current controlled negative resistance semiconductor device. 3,054,912, 9–18–62, Cl. 307—88.5.

Strumpf, Milton, and M. Schulman. Garment display forms. 3,044,671, 7–17–62, Cl. 223—66.

Strumwasser, Eric, and L. C. Van Atta, to Hughes Aircraft Co. Frequency-sensitive rapid-scanning antenna. 3,039,097, 6–12–62, Cl. 343—771.

Strunck, Hans J. : *See*—
Enders, Adolf, Seirig, and Strunck. 3,052,227.

Struthers Wells Corp. : *See*—
Long, Charles A. 3,068,562.

Struthers, William H., to J. J. Klein and E. N. Maisel. Cushion and method of making the same. 3,046,004, 7–24–62, Cl. 267—80.

Struve, William S., to E. I. du Pont de Nemours and Co. Production of dialkyl succinylsuccinates. 3,024,268, 3–6–62, Cl. 260—488.

Struve, William S., and A. D. Reidinger, to E. I. du Pont de Nemours and Co. Preparation of 2,5-diarylamino-terephthalic acid and salts thereof. 3,031,501, 4–24–62, Cl. 260—518.

Stryker, Stanley J., and J. E. Dunbar, to The Dow Chemical Co. 10-phenoxarsinyl esters. 3,038,921, 6–12–62, Cl. 260—440.

Stryker, Harvey I. : *See*—
Franklin, Richard C., and Stryker. 3,054,658.

Stryker, Homer H., to Orthopedic Frame Co. Hospital bed. 3,034,152, 5–15–62, Cl. 5—62.

Strys, William J., and L. F. Bolcato. Hair curling device. 3,019,797, 2–6–62, Cl. 132—33.

Strzala, Kazimer A., to Owens-Illinois Glass Co. Apparatus for detecting imperfections in glass containers. 3,069,965, 12–25–62, Cl. 88—14.

Strzalkowski, Charles W. Hearing aids. 3,035,127, 5–15–62, Cl. 179—107.

Strzalkowski, Charles W. Hearing aid apparatus and method. 3,068,954, 12–18–62, Cl. 181—23.

Stuart, Archibald P. : *See*—
Thomas, Charles L., Stuart, and Khelghatian. 3,048,543.

Stuart, Clifton. Hitch device. 3,029,092, 4–10–62, Cl. 280—477.

Stuart Corp. : *See*—
Stuart, Fred E. 3,015,476.

Stuart, Douglas J. : *See*—
Hillen, Hubert J., and Stuart. 3,020,044.

Stuart, Edward O. Thread depth gauge. 3,015,892, 1–9–62, Cl. 33—169.

Stuart, Frank A. : *See*—
Anderson, Robert G., Stuart, and Drummond. 3,018,247.
Anderson, Robert G., Stuart, and Drummond. 3,018,250.
Anderson, Robert G., Stuart, and Drummond. 3,018,291.
Drummond, Alan X., Anderson, and Stuart. 3,024,195.
Drummond, Alan Y., Anderson, and Stuart. 3,024,237.
Lowe, Warren, Kavanagh, Stuart, and Stewart. 3,037,-056.
Stewart, William T., Stuart, and Lowe. 3,046,260.
Stewart, William T., Stuart, and Lowe. 3,048,544.

Stuart, Frank A., and D. R. Wilgus, to California Research Corp. Polyglycol sulfide-linked block copolymers. 3,063,-971, 11–15–62, Cl. 260—79.

Stuart, Fred E., to Stuart Corp. Agitator. 3,015,476, 1–2–62, Cl. 259—141.
Stuart, George R.: *See*—
Horne, Campbell C., and Stuart. 3,061,481.
Stuart, James A., Jr. Flush valve. 3,045,249, 7–24–62, Cl. 4—56.
Stuart, John W.: *See*—
Stringer, Loren F., and Stuart. 3,063,632.
Stuart, Joseph, III: *See*—
Nichols, John B., and Stuart. 3,049,178.
Stuart-Prince, Richard G., to AMP Inc. Tool for crimping electrical connectors. 3,039,337, 6–19–62, Cl. 81—15.
Stuart, Robert W., Jr., to General Radio Co. Counter and display systems. 3,022,944, 2–27–62, Cl. 235—92.
Stuart, Robert W., Jr., to General Radio Co. Digital frequency divider and method. 3,050,685, 8–21–62, Cl. 328—48.
Stubbe, Friedrich: *See*—
Breher, Rudolf. 3,043,555.
Breher, Rudolf, and Bielfeldt. 3,020,591.
Stubbefield, Reuben A., ¼ to E. H. Maize, and ¼ to R. E. Harrah. Match safe. 3,058,580, 10–16–62, Cl. 206—33.
Stubbmann, Albert, to Kohner Bros., Inc. Magic writing toy. 3,061,948, 11–6–62, Cl. 35—63.
Stubbs, Allen H., and H. G. Wilson. Apparatus for lift-slab building construction. 3,036,816, 5–29–62, Cl. 254—89.
Stubbs, Bruce L.: *See*—
Meyerhoff, Alfred, and Stubbs. 3,063,206.
Stubbs, Dennis: *See*—
Clark, Patrick A., Stubbs, and Bloomfield. 3,015,528.
Clark, Patrick A., Stubbs, and Bloomfield. 3,020,108.
Stubbs, Doris C. Vibratory therapeutic treatment application. 3,053,250, 9–11–62, Cl. 128—41.
Stubbs, Max: *See*—
Adams, Harold A. 3,061,162.
Stuben, Frank J., and J. H., ½, to F. B. Conte and M. Stuben. Weld control unit and method. 3,049,607, 8–14–62, Cl. 219—89.
Stuben, Joseph H.: *See*—
Stuben, Frank J. and J. H. 3,049,607.
Stuben, Michael: *See*—
Stuben, Frank J., and J. H. 3,049,607.
Stubenrauch, Edward H.: *See*—
Main, Merrill M., and Stubenrauch. 3,057,627.
Stubler, Earl W. Drink mixer attachment. 3,037,749, 6–5–62, Cl. 259—122.
Stubnitz Greene Corp.: *See*—
Stubnitz, Maurice. 3,035,828.
Terry, Samuel M. 3,056,168.
Stubnitz, Maurice, to Stubnitz Greene Corp. Spring element. 3,025,048, 3–13–62, Cl. 267—110.
Stubnitz, Maurice, to Stubnitz Greene Corp. Spring element for seating structure. 3,025,828, 5–22–62, Cl. 267—110.
Stuchbery, Arthur L., to The Metal Box Co. Ltd. Apparatus for flame treating metal sheets. 3,021,125, 2–13–62, Cl. 263—6.
Stuchbery, Arthur L., to The Metal Box Co. Ltd. Manufacture of aluminium containers. 3,041,718, 7–3–62, Cl. 29—470.
Stuchell, Harry S., J. W. Jordan, and R. E. Offeman, to National Lead Co. Process of preparing a well drilling fluid. 3,027,322, 3–27–62, Cl. 252—8.5.
Stuchell, Harry S., J. W. Jordan, and R. E. Offeman, to National Lead Co. Well drilling compositions and process of manufacture. 3,027,323, 3–27–62, Cl. 252—8.5.
Stuck, Robert E.: *See*—
Iserman, Lavern R., and Stuck. 3,059,716.
Stucka, George R.: *See*—
Nicholson, Forrest H., Aston, and Stucka. 3,017,658.
Stucke, John, Rotating valve sleeve for outboard motor with wedge type piston. 3,039,448, 6–19–62, Cl. 123—59.
Stuckens, Leo J., to American Photocopy Equipment Co. Sheet separator device. 3,017,179, 1–16–62, Cl. 271—64.
Stuckens, Leo J., to American Photocopy Equipment Co. Photocopy apparatus. 3,017,816, 1–23–62, Cl. 95—73.
Stuckens, Leo J., to American Photocopy Equipment Co. Photocopy apparatus and document carrier for same. 3,025,778, 3–20–62, Cl. 95—75.
Stuckens, Leo J., to American Photocopy Equipment Co. Photocopy device. 3,034,413, 5–15–62, Cl. 95—75.
Stuckens, Leo J., to American Photocopy Equipment Co. Punching and binding machine for office use. 3,060,780, 10–30–62, Cl. 83—590.
Stuckert, Paul B., to International Business Machines Corp. Magnetic shift register. 3,054,094, 9–11–62, Cl. 340—174.
Stuckey, Albert D. C.: *See*—
Decker, Jacob, and Stuckey. 3,043,056.
Stuckey, James M., to Standard Oil Co. Separation of hydrocarbons. 3,043,891, 7–10–62, Cl. 260—674.
Stuckey, Richard L., to The Alliance Machine Co. Portable finger strippers. 3,045,300, 7–24–62, Cl. 22—95.
Stucklin, Theodor: *See*—
Reiterer, Fritz, and Stucklin. 3,066,447.
Studdiford, William E.: *See*—
Griffiths, Herbert D., Higgins, and Studdiford. 3,040,254.
Studebaker, Isaac R., to International Telephone and Telegraph Corp. Time sensitivity variable gain amplifier. 3,041,545, 6–26–62, Cl. 330—128.
Studebaker-Packard Corp.: *See*—
Germann, Herbert J. 3,024,488.
Husvar, Joseph M., and Metz. 3,032,840.
McFarland, Forest R. 3,017,196.
Warnken, Elmer P. 3,047,726.
Studer, Lewis O., to Weather-Seal, Inc. Stepladder having adjustable legs thereon. 3,016,103, 1–9–62, Cl. 182—126.
Studer, Martin, W. Setttele, and G. M. Egger, to Societe de la Viscose Suisse. Process for producing synthetic bast of linear polymeric thermoplastic material. 3,061,401, 10–30–62, Cl. 18—54.
Studiengesellschaft Kohle m.b.H.: *See*—
Koch, Herbert, and Moller. 3,061,621.
Köster, Roland. 3,035,891.
Koster, Roland. 3,049,407.
Koster, Roland, and Buechl. 3,063,810.
Wilke, Gunther. 3,052,736.
Wilke, Gunther, and Weslau. 3,017,439.
Wilke, Günther, and Wesslau. 3,063,986.
Studlein, Maximilian: *See*—
Knecht, Werner, and Studlein. 3,049,084.
Studley, Lester J., to Studley Paper Co., Inc. Bag. 3,016,-983, 1–16–62, Cl. 183—51.
Studley Paper Co., Inc.: *See*—
Studley, Lester J. 3,016,983.
Stuebnitz Greene Corp.: *See*—
Stubnitz, Maurice. 3,025,048.
Studt, Edwin W. Circle scriber. 3,052,033, 9–4–62, Cl. 33—42.
Stuewer, Reinhold F., to Grove Silk Co. Method of making sewing thread and product thereof. 3,041,816, 7–3–62, Cl. 57—140.
Stuhler, William B., to Collins Radio Co. Linkage mechanism for reciprocating symmetrical output motion. 3,049,016, 8–14–62, Cl. 74—43.
Stuhlmann, Frank A., to E-Z Packaging Corp. Garment bagging machine. 3,025,649, 3–20–62, Cl. 53—256.
Stuhrmann, Otto M.: *See*—
Schmidt, Josef. Schneider, Thiersch, Knappstein, Stuhrmann, Eickemeyer, and Voll. 3,054,728.
Stuijts, Andreas L.: *See*—
Dijaker, Simon Stuijts, Wijn, and Westmijze. 3,023,166.
Stull, Morton B. Closure and dispensing structure. 3,016,173, 1–9–62, Cl. 222—541.
Stull, Morton B. Dispensing type cap or closure. 3,031,-111, 4–24–62, Cl. 222—541.
Stull, Norman C. Steering mechanism. 3,039,785, 6–19–62. Cl. 280—95.
Stultz, Charles S., to General Motors Corp. Shock absorber. 3,024,875, 3–13–62, Cl. 188—88.
Stultz, Posy G., Jr.: *See*—
Phillips, Clifford F., and Stultz. 3,039,300.
Phillips, Clifford F., and Stultz. 3,041,711.
Stultz, Posy G., Jr., to C. M. O'Boyle. Safety tool for removing snap rings. 3,050,838, 8–28–62, Cl. 29—229.
Stummeyer, Herbert: *See*—
Pohlemann, Heinz, Schroeder, Stummeyer, and Adolphi. 3,031,417.
Stump, Charles W., Jr. Method of and apparatus for purifying sewage. 3,024,189, 3–6–62, Cl. 210—8.
Stump, Eugen, to Daimler-Benz Aktiengesellschaft. Axle drive arrangement. 3,031,900, 5–1–62, Cl. 74—695.
Stump, Eugen, and P. E. Strifler, to Daimler-Benz Aktiengesellschaft. Air conditioning installations, especially for motor vehicles. 3,024,006, 3–6–62, Cl. 257—277.
Stump, Eugen, and P. E. Strifler, to Daimler-Benz Aktiengesellschaft. System for stabilizing a twin axle, particularly a twin rear axle of a motor vehicle responsive to the travel through curves. 3,051,506, 8–28–62, Cl. 280—81.
Stump, Eugene C., Jr.: *See*—
Tarrant, Paul, and Stump. 3,062,799.
Stump, Harvey, to Diodes Inc. Yieldable electrode for semiconductor devices. 3,050,666, 8–21–62, Cl. 317—234.
Stump, Joseph H., Jr., and O. G. Wilson, to Heyden Newport Chemical Corp. Oxidation of allo-ocimene. 3,038,906, 6–12–62, Cl. 260—338.
Stump, Paul W., to The Cleveland Container Co. Spirally wound container. 3,030,001, 4–17–62, Cl. 229—51.
Stumpe, Nelson A., Jr.: *See*—
Hallsback, Henry E., and Stumpe. 3,060,989.
Stumpf, Hans-Reiner: *See*—
Neugebauer, Wilhelm, Süs, and Stumpf. 3,050,387.
Stumpf, Howard, Jr., to West Virginia Pulp and Paper Co. Display container. 3,021,042, 2–13–62, Cl. 229—16.
Stumpf, Walter, to Chemische Werke Huls Aktiengesellschaft. Process for the production of cyclododecene. 3,056,844, 10–2–62, Cl. 260—666.
Stumpf, Felix: *See*—
Ludewig, Maxmilian, and Stumpf. 3,062,100.
Stumpff, Clarence R. Quick release rope holder. 3,027,130, 3–27–62, Cl. 248—309.
Stümpfig, Friedrich, and C. Bellwinkel. Internal combustion engine and method for operating same. 3,015,321, 1–2–62, Cl. 123—30.
Stumph, Richard V.: *See*—
McAndrews, Anthony J., and Stumph. 3,052,955.
Stuntz, John W.: *See*—
Smith, Harry B., and Stuntz. 3,066,261.
Stupar, Wesley E., to General Precision, Inc. Trigonometric converter. 3,022,500, 2–20–62 Cl. 340—347.
Stupka, Albert F.: *See*—
Dungan, Richard T., Long, Stupka, Taylor, and Wise. 3,046,944.
Stupp, Bernard C. Apparatus for making friction tests. 3,040,560, 6–26–62, Cl. 73—9.
Sturbois, Georges. Self-starter circuit for motor vehicles. 3,046,408, 7–24–62, Cl. 290—37.

Sturdivant, Corwin L. Instrument lighting device. 3,059,205, 10–16–62, Cl. 339—17.

Sturdivant, Edwin R.: *See*—
Barnes, Frank W. 3,033,443.
Jones, Harold D., Jr., and Sturdivant, 3,054,374.

Sturdy, Robert H., to C K Components, Inc. Encapsulated miniature electrical circuits. 3,027,627, 4–3–62, Cl. 29—155.5.

Sturgis, Charles P.: *See*—
Graber, Carl D., and Sturgis. 3,063,769.

Sturiale, Philip J.: *See*—
Newby, Neal D., and Sturiale. 3,061,193.

Sturm, Karl, W Siedel, and R. Weyer, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. N'-substituted-3-carboxy-6-halo-sulfanilamide and derivatives thereof. 3,058,882, 10–16–62, Cl. 167—51.5.

Sturman, John C. Dual voltage power supply. 3,053,991, 9–11–62, Cl. 307—82.

Sturrock, John C., and J. M. Shay, to Steelmade Inc. Bottle vending machine. 3,029,980, 4–17–62, Cl. 221—125.

Sturrock, Murray G., E. L. Cline, K. R. Robinson, and R. J. Lovin, to Koppers Co., Inc. Naphthalene separation process. 3,016,401, 1–9–62, Cl. 260—523.

Sturtevant, Lee A.: *See*—
Sturtevant, Paul A. 3,058,124.

Sturtevant, Mark J., to Chrysler Corp. Window assembly construction. 3,019,048, 1–30–62, Cl. 296—44.

Sturtevant, Mark J., to Chrysler Corp. Snap-on clip structure. 3,048,910, 8–14–62, Cl. 24—215.

Sturtevant, Mark J., and N. T. Kelley, to Chrysler Corp. Vehicle window air flow deflector. 3,059,562, 10–23–62, Cl. 98—2.

Sturtevant, Paul A., to L. A. Sturtevant. Cushion construction. 3,058,124, 10–16–62, Cl. 5—345.

Sturtz, William E., and E. Frisch, to Westinghouse Electric Corp. Rod type fuel assembly. 3,015,616, 1–2–62, Cl. 204—193.2.

Sturtz, William J. A. Catalytic smog inhibitor. 3,043,095, 7–10–62, Cl. 60—29.

Stutrud, Lynn O., to General Motors Corp. Clothes washing machine and pump therefor having fixed and pivoted vane portions. 3,033,015, 5–8–62, Cl. 68—23.

Stutrud, Theodore O.: *See*—
Bullock, Norman J., and Stutrud. 3,027,741.

Stutske, William A., and F. H. Wood, Jr., to Kimble Glass Co. Take-out apparatus for glassware. 3,019,559, 2–6–62, Cl. 49—14.

Stutsman, Paul W., to Raytheon Co. Auxiliary cathode gas discharge device. 3,065,371, 11–20–62, Cl. 313—197.

Stutsman, Paul W., to Raytheon Co. Grid controlled gaseous discharge tube. 3,065,372, 11–20–62, Cl. 313—197.

Stuttgarter Karosseriewerk Reutter & Co. G.m.b.H.: *See*—
Beierbach, Walter, and Heinl. 3,028,199.
Beierbach, Walter, and Heinl. 3,036,862.
Beierbach, Walter T., and von Sass. 3,058,148.

Stutz, Karl. Mechanical movement. 3,028,762, 4–10–62, Cl. 74—29.

Stvan, Richard T., and A. C. Grubbe, to Crane Co. Gear-operated unit. 3,063,307, 11–13–62, Cl. 74—625.

Stwertka, Richard. Ventilating window screen or the like. Re. 25,190, 6–19–62, Cl. 160—352.

Stwiorok, Alfons: *See*—
Streit, Alfons, and Stwiorok. 3,016,887.

Stylette Plastics, Inc.: *See*—
Goetz, Daniel A. 3,035,623.

Styner, Fritz, and A. Chlouba, deceased; G. A. Erni, executor. Visual indicating device for cash registers. 3,017,079, 1–16–62, Cl. 235—23.

Suarez, Julio F., to Casco Products Corp. Electric massage pad. 3,068,858, 12–18–62, Cl. 128—33.

Suay, Enrique. Automatic machine for the manufacture of pies. 3,059,594, 10–23–62, Cl. 107—1.

Suben, Morten. Riveting gun. 3,027,787, 4–3–62, Cl. 78—46.

Suben, Morten, ½ to M. Caplan. Bracket mounting for tables and the like. 3,034,757, 5–15–62, Cl. 248—235.

Suberkrub, Franz. Anti-roll stabilizers of ships. 3,066,634, 12–4–62, Cl. 114—126.

Suberkrub, Max C., to Licentia Patent-Verwaltungs-G.m.b.H. Current collector for electric vehicles. 3,068,330, 12–11–62, Cl. 191—65.

Sublette, Ivan H.: *See*—
Bensky, Lowell S., and Sublette. 3,023,964.

Submarine Cables Ltd.: *See*—
Latimer, Kenneth E. 3,026,668.
Latimer, Kenneth E. 3,036,220.
Latimer, Kenneth E., and Oswald. 3,041,555.

Suburban Appliance Co.: *See*—
Vaughn, Charles O. 3,024,847.

Sucetti, Glenn. Paving and surfacing composition. 3,063,-853, 11–13–62, Cl. 106—191.

Sucha, Joseph: *See*—
Yeckley, Russell N., Sucha, and Baker. 3,057,983.

Sucher, Joseph R., to Emsig Mfg. Co. Collar and like stayed construction. 3,039,112, 6–19–62, Cl. 2—132.

Sucher, Joseph R. Button manufacture. 3,057,017, 10–9–62, Cl. 18—59.

Sucher Packing Co., The: *See*—
Rosenthaler, Milton. 3,034,171.
Rosenthaler, Milton. 3,042,964.

Suchetzki, Felix: *See*—
Kramer, Udo, Lehnartz, Schwerdtfeger, and Suchetzki. 3,052,286.

Sucietto, Richard R.: *See*—
Eck, John W., and Sucietto. 3,046,138.

Sucker G.m.b.H., Gebruder: *See*—
Kabelitz, Hans. 3,028,110.
Kabelitz, Hans, and von Kannen. 3,016,734.

Suckfull, Fritz: *See*—
Schündehütte, Karl-Heinz, Schmidt, Suckfull, and Nickel. 3,024,255.

Suckfull, Fritz, and H. Nickel, to Bayer Aktiengesellschaft, Farbenfabriken. Metal-containing azo dyestuffs. 3,046,-271, 7–24–62, Cl. 260—143.

Suckling, Eustace E. Device for recording balance point of electrical bridge circuits. 3,020,114, 2–6–62, Cl. 346—17.

Sud Atlas-Werke G.m.b.H.: *See*—
Matusche, Heinz. 3,015,776.

Sud-Aviation Societe Nationale de Constructions Aeronautiques: *See*—
Goodall, Donald G., and Lepers. 3,049,878.
Guilbert, Francois Y. 3,020,009.

Sud West Chemie G.m.b.H.: *See*—
Bauer, Hans, and Holzer. 3,062,940.

Suda, Teruo: *See*—
Tanabe, Kenichi, Suda, Miyazaki, and Osugi. 3,044,974.

Sudbury, John D.: *See*—
Gaut, Preston L., and Sudbury. 3,050,629.

Suddeutsche Kalkstickstoff-Werke Aktiengesellschaft: *See*—
Fischer, Thomas, Kaess, and Kronacher. 3,051,549.
Kaess, Franz, and Fischer. 3,060,011.
Kaess, Franz, Fischer, and Kronacher. 3,021,192.
Strassberger, Lothar, and Wendlberger. 3,060,181.

Sudds, Chester F.: *See*—
Hammer, Warren, and Sudds. 3,027,287.

Sudeikis, Stanley I., to Pilot Distributing Co. Hold down and towing chain with tension cushioning turnbuckle. 3,051,519, 8–28–62, Cl. 287—90.

Sudeikis, Stanley I., to Pilot Distributing Co. Bumper hitch for towing attachments. 3,061,333, 10–30–62, Cl. 280—490.

Sudenga, Floyd H.: *See*—
Sudenga, Jay G. and F. H. 3,021,025.

Sudenga, Jay G. and F. H. Adjustable delivery spout for bulk material delivery trucks. 3,021,025, 2–13–62, Cl. 214—522.

Suderow, George E., to De Long Corp. Apparatus and method for connecting an access caisson to a submerged well casing. 3,020,956, 2–13–62, Cl. 166—66.5.

Sudnun, Charles F., to The Goodyear Tire & Rubber Co. Fabric covered cellular cushioning article and manufacture thereof. 3,016,318, 1–9–62, Cl. 154—54.

Suehnholz, Kenneth: *See*—
Kasperowicz, Henry, and Suehnholz. 3,067,349.

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Suen, Tzeng J.: *See*—
Ritson, Daniel D., and Suen. 3,050,486.
Saxon, Robert, and Suen. 3,021,295.

Suen, Tzeng J., to American Cyanamid Co. Method of graft-polymerizing acrylate monomers onto paper in presence of ethylene dimethacrylate, and resulting product. 3,065,-041, 11–20–62, Cl. 8—116.

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Suess, Rudolf: *See*—
Jucker, Ernst, Rissi, and Süess. 3,015,658.
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Jucker, Ernst, and Suess. 3,056,796.

Suffredini, Romeo L.: *See*—
Ciarleglio, Louis F., Duffield, Staba, and Suffredini. 3,031,746.

Suga, Goro. Handpiece drilling guide. 3,063,149, 11–13–62, Cl. 32—67.

Suga, Kenichi, 40% to Nippon Shinnetsu Kogyo Kabushiki Kaisha. Method of utilizing combustion heat of the coal of low quality. 3,031,144, 4–24–62, Cl. 237—18.

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Elsner, Burton D., Swimmer, and Sugarman. 3,027,285.

Sugarman, Meyer L., Jr., and N. P. Steiner, to American Photocopy Equipment Co. Photoconductive materials. 3,051,569, 8–28–62, Cl. 96—1.

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Sugasawa, Masao. Continuous digesting and extracting apparatus. 3,044,541, 7–17–62, Cl. 162—237.

Sugasawa, Tsutomu: *See*—
Nagata, Wataru, Narisada, and Sugasawa. 3,055,917.

Sugawara, Ryozo: *See*—
Hata, Toju, Sugawara, and Matsumae. 3,023,145.
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Sugden, John A., to Brush Crystal Co. Ltd. Ferroelectric ceramic materials. 3,068,177, 12–11–62, Cl. 252—62.9.
Suggs, Fletcher N. Toilet tissue roll holder. 3,067,963, 12–11–62, Cl. 242—55.2.
Suggs, Lee G., and E. N. Martin, to Barmart. Automatic coffee brewer. 3,038,492, 6–12–62, Cl. 137—453.
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Sughrue, Rothwell, Mion & Zinn: *See*—
Ljunddggren, Thor H. 3,045,651.
Sugimoto, Chiaki. Joint coupling device for pneumatic toys. 3,065,566, 11–27–62, Cl. 46—87.
Sugimoto, Norio, I. Utsumi, and T. Ida, to Tanabe Seiyaku Co., Ltd. Sealing coat for tablets and the like. 3,041,243, 6–26–62, Cl. 167—82.
Sugimura, Kazuo. System for controlling a hydraulic pressing apparatus. 3,030,775, 4–24–62, Cl. 60—51.
Suhl, Harry, to Bell Telephone Laboratories, Inc. Gyromagnetic parametric amplifier. 3,066,263, 11–27–62, Cl. 330—56.
Suhr, Frederick W.: *See*—
Jenson, Kenneth S., and Suhr. 3,017,923.
Suhr, Robert N., to Pioneer Heddle and Reed Co., Inc. Heddle assembly for a loom harness. 3,064,688, 11–20–62, Cl. 139—96.
Suhre, Jerome: *See*—
Loria, Walter J., and Suhre. 3,066,184.
Suhrmann, Robert, to North American Philips Co., Inc. Circuit arrangement for automatic readjustment of the background brightness and the contrast in a television receiver. 3,025,345, 3–13–62, Cl. 178—7.5.
Suhrmann, Robert, and G. Forster, to North American Philips Co., Inc. Television background and contrast control. 3,047,656, 7–31–62, Cl. 178—7.5.
Suisse des Explosifs, Societe: *See*—
De Wilde, Paul R. 3,049,453.
Suisse, Marcel: *See*—
Peras, Lucien, and Suisse. 3,037,233.
Suisse pour l'Industrie Horlogere S.A., Societe: *See*—
Luscher, Jakob. 3,038,087.
Sukala, John M. Mechanical lock for air brakes. 3,037,819, 6–5–62, Cl. 303—89.
Sukala, Justin G., Jr. Firearm muzzle cover. 3,063,184, 11–13–62, Cl. 42—1.
Sukegawa, Shigeru: *See*—
Meguro, Seitaro, Ozawa, Yasuhara, Sukegawa, Shiobara, and Yoshihara. 3,063,844.
Sukornick, Bernard: *See*—
Gordon, Joseph, and Sukornick. 3,055,817.
Sukovich, Andrew W.: *See*—
Gabrielsen, Christian, Vorperian, and Sukovich. 3,019,-941.
Sulé Luengo, Fermin: *See*—
Garcia Borras, José, and Sulé. 3,066,344.
Sulger, Champlyn K., Kite flying apparatus. 3,062,488, 11–6–62, Cl. 244—155.
Sulger, Harold E., to Dynamic Instrument Corp. Electromagnetic clutch. 3,052,335, 9–4–62, Cl. 192—84.
Sulich, John, Jr., to General Aniline & Film Corp. Intermediate master for use in the diazotype process and a process for producing same. 3,052,542, 9–4–62, Cl. 96—49.
Süling, Carlhans: *See*—
Groene, Heinz and Süling. 3,052,656.
Pütter, Rolf, and Süling. 3,040,020.
Sulinski, Harry V.: *See*—
Lipson, Samuel, and Sulinski. 3,053,075.
Sulkowski, Theodore S., to American Home Products Corp. 3-amino-6-chloro-4-phenyl - 2(1H) - quinolone. 3,066,145, 11–27–62, Cl. 260—288.
Sullenger, Henry E.: *See*—
Sweeney, Cecil J., and Sullenger. 3,039,941.
Sullivan, Charles J.: *See*—
Choate, Arthur E., and Sullivan. 3,066,421.
Sullivan, Daniel W., to Drilprodco, Inc. Method of volumetric determination of well bores and the like. 3,020,952, 2–13–62, Cl. 166—4.
Sullivan, Donald F., to United Aircraft Corp. Thermocouple. 3,050,575, 8–21–62, Cl. 136—5.
Sullivan, Donald P.: *See*—
Adams, Donald B., and Sullivan. 3,024,606.
Sullivan, Eugene B., to W. F. and J. Barnes Co. Combination drilling and self-leading tapping machine tool. 3,058,-129, 10–16–62, Cl. 10—159.
Sullivan, Francis M. Grime deflector for vehicles. 3,058,757, 10–16–62, Cl. 280—159.
Sullivan, Frank E., to The De Laval Separator Co. Recovery of edible protein from fatty animal stock. 3,063,840, 11–13–62, Cl. 99—18.
Sullivan, Frederick, and T. G. Tatosian, to Arthur D. Little, Inc. Safety device for tilting valve. 3,062,417, 11–6–62, Cl. 222—394.
Sullivan, Frederick W., III, to H. A. Beekhuis. Conversion of potassium chloride containing bromides to potassium nitrate with recovery of bromine. 3,062,618, 11–6–62, Cl. 23—102.
Sullivan, George C. Firearm with aluminum alloy receiver. 3,027,672, 4–3–62, Cl. 42—16.
Sullivan, Herbert: *See*—
Aalund, Thomas K., and Sullivan. 3,019,301.
Sullivan, Herbert W., to ACF Industries, Inc. Pulse radar system with digitalizing and summing means. 3,065,464, 11–20–62, Cl. 343—13.
Sullivan, Jack O.: *See*—
Klages, Christian L., and Sullivan. 3,018,675.
Sullivan, James E. Geared propeller. 3,067,824, 12–11–62, Cl. 170—135.
Sullivan, James F.: *See*—
Cox, Robert E. and Sullivan. 3,045,765.
Oerman, Orey W., and Sullivan. 3,049,181.
Sullivan, James L., to Hughes Aircraft Co. Motion converting mechanism. 3,037,392, 6–5–62, Cl. 74—96.
Sullivan, James M., to General Motors Corp. Closure for rotatable members. 3,032,346, 5–1–62, Cl. 277—168.
Sullivan, Jay E.: *See*—
Chatlain, Robert R. 3,016,812.
Sullivan, Jimmie D., to Westinghouse Electric Corp. Load pickup switch latch mechanisms. 3,047,694, 7–31–62, Cl. 200—106.
Sullivan, John F.: *See*—
Schultz, Robert T., and Sullivan. 3,015,736.
Sullivan, John F., to International Telephone and Telegraph Corp. Pulse pair decoder. 3,051,928, 8–28–62, Cl. 340—167.
Sullivan, John L., to Bell Telephone Laboratories, Inc. Compatible ringing circuit. 3,026,377, 3–20–62, Cl. 179—87.
Sullivan, Marguerite D.: *See*—
Denis, Albert P., and Sullivan. 3,049,798.
Sullivan, Milton A.: *See*—
Rice, Charles M., and Sullivan. 3,026,055.
Sullivan, Neil E.: *See*—
Spies, Newton E., Jr., and Sullivan. 3,042,526.
Sullivan, Norman M., to The Alvey-Ferguson Co. Telescoping conveyer. 3,059,747, 10–23–62, Cl. 193—35.
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Sullivan, Philip W.: *See*—
Shannon, Richard F., Morgan, and Sullivan. 3,039,981.
Sullivan, Ralph M. E., to National Research Development Corp. Vibratory ball mill system. 3,021,082, 2–13–62, Cl. 241—175.
Sullivan, Richard N., to United Aircraft Corp. Pump timing device. 3,050,014, 8–21–62, Cl. 103—162.
Sullivan, Richard N., and R. P. Lambeck, to United Aircraft Corp. Pintle port construction for pumps. 3,034,451, 5–15–62, Cl. 103—161.
Sullivan, Robert D.: *See*—
Martin, Robert W., and Sullivan. 3,062,895.
Sullivan, Robert J., to General Mills, Inc. Remote control for manipulators. 3,066,805, 12–4–62, Cl. 214—1.
Sullivan, Robert T.: *See*—
Le Mat, Lee E., and Sullivan. 3,039,295.
Sullivan, Timothy J., to Sullivan Valve and Engineering Co. By-pass valve unit. 3,034,532, 5–15–62, Cl. 137—627.5.
Sullivan, Timothy J., to Sullivan Valve and Engineering Co. Two-stage hydromotor-operated valve. 3,051,432, 8–28–62, Cl. 251—30.
Sullivan Valve and Engineering Co.: *See*—
Sullivan, Timothy J. 3,034,532.
Sullivan, Timothy J. 3,051,432.
Sullivan, Wilbur M., and L. A. Carlson, to Union Carbide Corp. Latex containing polyvinylacetol and ethyl silicate, and base coated with dried product thereof. 3,047,523, 7–31–62, Cl. 260—29.6.
Sullivan, William J.: *See*—
Payne, George B., and Sullivan. 3,041,356.
Payne, George B., Sullivan, Van Ess, and Williams. 3,062,890.
Sullivan, William J., to Shell Oil Co. Polyglycidaldehyde. 3,067,174, 12–4–62, Cl. 260—67.
Sullivan, William J., and P. H. Williams, to Shell Oil Co. Polyglycidaldehyde. 3,067,175, 12–4–62, Cl. 260—67.
Sully, Frank H.: *See*—
Dole, Warren, and Sully. 3,053,362.
Sulphite Products Corp.: *See*—
Wiley, Averill J. 3,017,951.
Sulzer Freres, Societe Anonyme: *See*—
Brunner, Alfred. 3,035,656.
Brunner, Alfred. 3,055,389.
Frolich, Martin. 3,069,143.
Hanny, Jost. 3,038,318.
Hänny, Jost, and Zürcher. 3,035,879.
Jassniker, Kurt. 3,032,259.
Juzi, Viktor. 3,062,553.
Kalide, Wolfgang. 3,049,106.
Litwinoff, Richard. 3,035,557.
Litwinoff, Richard. 3,049,168.
Meier, Bruno. 3,049,030.
Ott, Walter. 3,060,909.
Pfarrwaller, Erwin. 3,020,930.
Pfarrwaller, Erwin. 3,040,782.
Pfarrwaller, Erwin. 3,060,975.
Profos, Paul. 3,017,869.
Profos, Paul. 3,017,870.
Profos, Paul. 3,21,824.
Profos, Paul. 3,036,000.
Profos, Paul. 3,052,223.
Profos, Paul. 3,062,196.
Profos, Paul. 3,064,630.
Strub, Rene. 3,067,135.
Zehnder, Norbert A. 3,068,775.
Sulzer, Robert I., to Advance Transformer Co. Ballast canister construction. 3,049,579, 8–14–62, Cl. 174—52.
Sumard, Raymond F., to Eli Lilly and Co. Antiparasitic compositions and processes. 3,030,270, 4–17–62, Cl. 167—53.1.

Sumida, Kunio A.: *See*—
Dashew, Stanley A., Sumida, Dobrowsky, and Greene. 3,056,247.
Hill, George H., Sumida, and Dobrowsky. 3,045,589.
Sumida, Kunio A. Addressing machine. 3,051,083, 8–28–62, Cl. 101—132.5.
Sumitoma Chemical Co., Ltd.: *See*—
Irie, Tsuneo, Kagiya, and Asada. 3,016,396.
Matsui, Masanao, and Miyano. 3,065,244.
Nakagome, Takenari, and Komatsu. 3,053,833.
Seki, Hideo, Suzuki, and Kawai. 3,029,164.
Sumitomo Electric Industries, Ltd.: *See*—
Iwata, Minoru, Takatsuki, and Kubota. 3,036,549.
Takada, Mitsuru. 3,019,280.
Sumiya, Shinzo. Froth flotation system. 3,032,199, 5–1–62, Cl. 209—170.
Summerhayes, Harry R., Jr., and E. S. Sampson, to General Electric Co. Flame observation system. 3,021,385, 2–13–62, Cl. 178—6.
Summerlin, Frederick A., and R. Hadekel, to The Sperry Gyroscope Co. Ltd. Aircraft control apparatus. 3,020,889, 2–13–62, Cl. 121—41.
Summerlin, Frederick A., and D. H. Roberts, to The Sperry Gyroscope Co. Ltd. Selsyn wound to eliminate harmonics. 3,062,993, 11–6–62, Cl. 318—24.
Summerour, Marion A. Lawn mower with shaft protection device. 3,065,589, 11–27–62, Cl. 56—25.4.
Summers, Caleb E. Fuel vaporization means for internal combustion engines. 3,016,051, 1–9–62, Cl. 123—122.
Summers, Charles L., to General Motors Corp. Nut assembly. 3,068,924, 12–18–62, Cl. 151—41.7.
Summers, Erwin R., to General Electric Co. Thrust bearing. 3,062,598, 11–6–62, Cl. 308—160.
Summers, Frank P., Jr., and R. E. Mattson, to Esterbrook Pen Co. Ink supplying means for the pens of recording meter apparatus. 3,046,556, 7–24–62, Cl. 346—140.
Summers, Gerald C., to Socony Mobil Oil Co., Inc. Depth selection for continuous marine acoustic exploration. 3,034,593, 5–15–62, Cl. 181—.5.
Summers, Gerald C., to PGAC Development Co. Sonic bore hole logging devices. 3,036,463, 10–2–62, Cl. 181—.5.
Summers, Gerald C., and R. L. Mills, to Metallurgical Resources, Inc. Vehicle tire pressure alarm apparatus. 3,016,515, 1–9–62, Cl. 340—58.
Summers, James E.: *See*—
Elder, George H., and Summers. 3,061,673.
Summers, James J., and R. A. Bub, to Mine Safety Appliances Co. Zigzag filter element and method of making it. 3,025,964, 3–20–62, Cl. 210—493.
Summers, John, & Sons Ltd.: *See*—
Jones, John F. R. 3,039,754.
Summers, Reuben E. Revolvable seat. 3,046,052, 7–24–62, Cl. 297—337.
Summers, Robert M., to The B. F. Goodrich Co. Polymer containing a plurality of carboxyl groups and a plurality of 2-thiazyl groups, thermally reversible gels thereof, and method for preparation. 3,032,522, 5–1–62, Cl. 260—29.6.
Summers, Virgil H., R. C. McClure, and G. H. Kuntze, to Universal Pictures Co., Inc. Steering mechanism for a camera dolly. 3,018,116, 1–23–62, Cl. 280—91.
Summers, Willard P., to International Business Machines Corp. Ground range determining apparatus solving for one side of a right triangle. 3,058,661, 10–16–62, Cl. 235—191.
Summers, William J.: *See*—
Edgerly, Charles R., Summers, and Gorski. 3,054,235.
Summers, William J., and F. T. May, to Westinghouse Electric Corp. Cap for compression-rubber assembly. 3,029,846, 4–17–62, Cl. 141—65.
Sumner Co., Inc.: *See*—
Sumner, George V. 3,050,928.
Sumner, George V., to Sumner Co., Inc. Converting continuous filament to staple fiber. 3,050,928, 8–28–62, Cl. 57—2.
Sumpter, Charles B., Jr.: *See*—
MacIsaac, John T., Jr., and Sumpter. 3,028,884.
MacIsaac, John T., Jr., and Sumpter. 3,042,081.
Sumrell, Gene: *See*—
Ham, George E., and Sumrell. 3,060,154.
Shoemaker, Carlyle E., and Sumrell. 3,041,141.
Sumsion, Alton E.: *See*—
Bain, John W., and Sumsion. 3,015,357.
Sumter, Chester A. Battery lifter. 3,059,953, 10–23–62, Cl. 294—15.
Sun Chemical Corp.: *See*—
Goldstein, Herman B., and Silvestri. 3,049,446.
Stage, Leo J. 3,039,904.
Sun Oil Co.: *See*—
Bennett, John, Chaney, Jones, and Mayes. 3,047,794
Bennett, John, Chaney, Jones, and Mayes. 3,052,838.
Bennett, John, and Mayes. 3,047,796.
Bennett, John D. 3,023,615.
Bennett, John D. 3,064,679.
Bennett, John D., and Mayes. 3,016,963.
Blair, Edgar A., Melchiore, and Mills. 3,047,616.
Blake, Norman B., and Holtkamp. 3,063,053.
Brooks, Charles H. 3,026,894.
Chaney, Preston E. 3,040,927.
Convery, Robert J. 3,031,484.
Convery, Robert J. 3,042,709.
Convery, Robert J. 3,061,452.
Convery, Robert J. 3,070,626.
Coppock, Walter J. 3,030,309.
Sun Oil Co.: *See*—Continued
Cox, William H. 3,061,832.
Cox, William H., and Blake. 3,023,966.
Dougherty, Patrick F. 3,063,246.
Douros, John D., Jr., and Raymond. 3,065,149.
Eberhardt, Gert G. 3,065,282.
Evans, William T. 3,027,085.
Ewan, Evan B. 3,030,195.
Gorand, Alfred J. 3,026,888.
Gorand, Alfred J., and Brooks. 3,018,021.
Hall, Lewis W., Jr., and Thomas. 3,065,281.
Hetzel, Stanford J. 3,043,869.
Hetzel, Stanford J. 3,043,870.
Hetzel, Stanford J. 3,067,248.
Hirschler, Alfred E. 3,044,954.
Hodges, James W. 3,022,828.
Hodges, James W. 3,022,829.
Hodges, James W. 3,031,976.
Honeycutt, Earl M. 3,034,980.
Honeycutt, Earl M. 3,036,900.
Honeycutt, Earl M. 3,070,637.
Janoski, Edward J. 3,054,837.
Janoski, Edward J. 3,055,878.
Jezl, James L. 3,038,292.
Jezl, James L. 3,057,838.
Johnson, Herbert L., and Eberhardt. 3,035,077.
Johnson, Herbert L., Reif, and Schneider. 3,052,622.
Jolly, Samuel E. 3,054,750.
Jolly, Samuel E. 3,064,022.
Larsen, Lawrence W., and McClure. 3,050,343.
Lassiat, Raymond C. 3,058,236.
Lewis, Carolyn L. 3,067,249.
Loveland, Junior W. 3,032,489.
Mayes, Fred M. 3,042,258.
Mayes, Fred M. 3,065,996.
Mayes, Fred M., and Jones. 3,034,217.
Mayes, Fred M., and Jones. 3,065,404.
McNamara, Francis J. 3,052,569.
Melchiore, John J. 3,045,045.
Melchiore, John J. 3,055,839.
Mertes, Thomas S., and Reilly. 3,043,793.
Mills, Ivor W. 3,030,348.
Mills, Ivor W. 3,052,742.
Mills, Ivor W. 3,061,418.
Mills, Ivor W., Beck, and Jezl. 3,042,708.
Moscrip, Arthur D. 3,020,312.
Moscrip, Arthur D. 3,060,145.
Oberdorfer, Paul E., Jr., and Rugen. 3,028,313.
Patterson, Omar L. 3,017,106.
Patterson, Omar L. 3,024,995.
Patterson, Omar L. 3,047,232.
Paxton, Joseph M. 3,052,501.
Pearson, John M. 3,047,795.
Powelson, Roger V. N. 3,049,527.
Schneider, Abraham. 3,018,263.
Scott, Charles E. 3,016,394.
Scott, Charles E. 3,023,167.
Shawhan, Elbert N. 3,036,585.
Stout, William J., Ferris, and Tench. 3,044,917.
Tench, John D. 3,046,101.
Tench, John D. 3,069,346.
Tench, John D., and Ferris. 3,016,312.
Thomas, Charles L. 3,038,857.
Thomas, Charles L. 3,047,551.
Thomas, Charles L., Stuart, and Khelghatian. 3,048,543.
Voltz, Sterling E. 3,049,524.
Voltz, Sterling E. 3,070,638.
Walker, William F. 3,031,105.
Wright, J Rondle. 3,017,772.
Wright, J Rondle. 3,021,713.
Wright, J Rondle. 3,043,508.
Wright, J Rondle. 3,060,301.
Wright, J Rondle. 3,069,656.
Sun Rubber Co., The: *See*—
Valentine, Vaughn E. 3,044,124.
Whittington, Lloyd R. 3,040,384.
Sun, Sua F., to Landis & Gyr, A.G. Computer apparatus. 3,024,997, 3–13–62, Cl. 235—194.
Sun, Sua F., to Landis & Gyr, A.G. Multipliers with magnetic responsive resistance. 3,024,998, 3–13–62, Cl. 235—194.
Sun, Sua F., to Landis & Gyr., A.G. Multivibrator with D.C. voltage frequency control. 3,058,069, 10–9–62, Cl. 331—113.
Sun Tool and Machine Co.: *See*—
Reaser, Warren E. 3,023,548.
Sun, Yun-Pei, to Shell Oil Co. Insecticidal compositions. 3,053,729, 9–11–62, Cl. 167—22.
Sunada, Kazuichi. Stone cutter. 3,026,865, 3–27–62, Cl. 125—23.
Sunbeam Corp.: *See*—
Chartier, Edmund G. 3,035,194.
Frey, Paul H., and Toney. 3,062,520.
Hanzel, Richard W. 3,064,112.
Jepson, Ivar. 3,017,492.
Jepson, Ivar. 3,028,719.
Jepson, Ivar. 3,031,735.
Jepson, Ivar. 3,050,093.
Jepson, Ivar. 3,054,080.
Jepson, Ivar, and Ernstberger. 3,068,503.
Jepson, Ivar, and Lill. 3,035,386.

Sunbeam Corp.: *See*—Continued
Jepson, Ivar, and Vieceli. 3,030,485.
Jepson, Ivar, and Wickenberg. 3,068,342.
Lill, Etchison G. 3,035,385.
Lill, Etchison G. 3,035,675.
Lill, Etchison G. 3,038,737.
Sjoquist, Gunnar. 3,058,268.
Sunbeam Equipment Corp.: *See*—
Baker, Marvin T., and Giler. 3,033,547.
Giler, Roger R. 3,025,044.
Sunbeam Lighting Co.: *See*—
Bobrick, Mitchell. 3,018,083.
Bobrick, Mitchell. 3,040,171.
Sunbeam Plastics Corp.: *See*—
Gach, Peter P. 3,037,672.
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Sundberg, Erik G., to Aktiebolaget Tudor. Microporous material separator and method of making separator. 3,055,966, 9–25–62, Cl. 136—146.
Sundberg, Erik G., to Tudor, Aktiebolaget. Storage battery electrode. 3,064,066, 11–13–62, Cl. 136—43.
Sundberg, Hardy M., to Hardy Maskinprodukter Aktiebolag. Gas analyzer. 3,034,866, 5–15–62, Cl. 23—256.
Sundberg, John R.: *See*—
Luper, Forrest E. 3,046,040.
Sundby, Arthur M. Hinge seat cutting tool. 3,068,917, 12–18–62, Cl. 144—27.
Sunden, Karl H. Hand grenade. 3,049,999, 8–21–62, Cl. 102—64.
Sundheim, Paul E.: *See*—
Oakes, Earle T., Doom, McElligott, and Sundheim. 3,066,-707.
Sundholm, Edwin P. Method of forming and mounting a handle. 3,040,428, 6–26–62, Cl. 29—475.
Sundholm, Edwin P. Optional loading grease gun. 3,059,-819, 10–23–62, Cl. 222—326.
Sundholm, Edwin P. Grease gun plunger assembly. 3,059,-980, 10–23–62, Cl. 309—4.
Sundin, Norman K., W. A. Hubbard, and J. A. Riddell, to United States Rubber Co. Method of destroying weeds. 3,029,138, 4–10–62, Cl. 71—2.3.
Sundin, Anders E., to Hydrauliska Industri Aktiebolaget. Hydraulic jack. 3,024,920, 3–13–62, Cl. 212—35.
Sundin, George H.: *See*—
Calasvirta, Osni E., and Sundin. 3,024,910.
Sundman, Knut J., to Oy Medica AB. Method of preparing pearls. 3,017,668, 1–23–62, Cl. 18—47.2.
Sundquist, Gene J., and S. Marlow. Material handling apparatus. 3,051,292, 8–28–62, Cl. 198—31.
Sundquist, John A., to Harvey Hubbell Inc. Means for mounting cord grips. 3,056,944, 10–2–62, Cl. 339—103.
Sunds Verkstader Aktiebolag: *See*—
Frykhult, Rune H. 3,053,067.
Heroff, Kjell O. G. 3,019,825.
Leffler, Nils G. 3,053,068.
Leffler, Nils G. 3,053,069.
Sundstedt, Karl S.: *See*—
Eberman, Carl B., and Sundstedt. 3,029,099.
Sundstrand Corp.: *See*—
Bjerklie, John W., and Cover. 3,059,429.
Erikson, Evans W., Miller, and Schmitz. 3,064,189.
Erikson, Robert W. 3,069,177.
Hann, Melvin M. 3,066,609.
Reinke, Donald B. 3,066,613.
Schaller, Leo. 3,022,611.
Sundstrand, Oscar J., to Victor Adding Machine Co. Multiplication and divison control mechanism. 3,024,975, 3–13–62, Cl. 235—60.
Sundstrand, Oscar J., to Victor Adding Machine Co. Printing calculating machine. 3,030,010, 4–17–62, Cl. 235—60.31.
Sundström, John N. E., to Forsvarets fabriksstyrelse (Directorate of Defence Factories). Wheeled gun carriage. 3,023,674, 3–6–62, Cl. 89—40.
Sundstrum, Stratton W., to Swan Mira-Pools, Inc. Fallout shelter. 3,049,835, 8–21–62, Cl. 50—100.
Sundt, Edward V. Electric clock. 3,019,594, 2–6–62, Cl. 58—26.
Sundt, Edward V. Motorized dial control mechanism. 3,028,-513, 4–3–62, Cl. 310—83.
Sundt, Edward V. Differential gear reducer. 3,037,400, 6–5–62, Cl. 74—804.
Sundt, Edward V. Electric clock. 3,043,089, 7–10–62, Cl. 58—26.
Sundt, Edward V. Electric clock. 3,043,090, 7–10–62, Cl. 58—26.
Sundt, Edward V. Differential gear reducer. 3,043,164, 7–10–62, Cl. 74—804.
Sunflex Pty. Ltd.: *See*—
Castelow, Alfred H. 3,037,238.
Sunkist Growers, Inc.: *See*—
Ahlburg, Frank. 3,068,785.
Johnson, Maurice V., Jr., and Savage. 3,063,365.
Swisher, Horton E. 3,041,180.
Sun-Maid Raisin Growers of California: *See*—
Beck, Renold R., and Rawski. 3,041,522.
Voller, James P. 3,032,947.
Sunray Co.: *See*—
Eaddy, Ernest J. 3,053,410.
Sunroc Corp.: *See*—
Sorensen, Egon. 3,033,466.
Sorensen, Egon, and Crost. 3,069,872.
Sunrod Mfg. Corp.: *See*—
Carter, Frederick H. N. 3,053,237.
Sunset Equipment Co.: *See*—
Larson, Carl V. 3,018,915.
Sunstein, David E., to General Atronics Corp. Temperature responsive signal amplifier. 3,028,728, 4–10–62, Cl. 60—23.187—29.
Sunstein, David E., to Philco Corp. Signal phasing system for color television. 3,054,853, 9–18–62, Cl. 178—5.4.
Suntheimer, Frank J. Fermentation processes for making bread and the like. 3,015,565, 1–2–62, Cl. 99—90.
Sunthimer, Paul L.: *See*—
Yamokoski, Charles P., Sunthimer, and Brinza. 3,042,-102.
Suozzo, John, and W. R. Caputo, to Westinghouse Electric Corp. Elevator control systems. 3,040,838, 6–26–62, Cl.
Suozzo, Leonard S. Roller trolley apparatus. 3,027,127, 3–27–62, Cl. 248—55.
Suozzo, Leonard S. Motor-actuated suspension type support device. 3,033,506, 5–8–62, Cl. 248—58.
Suozzo, Leonard S. Motorized support device for piping and the like. 3,052,438, 9–4–62, Cl. 248—58.
Super-Cut, Inc.: *See*—
Biesanz, Charles W., Sr. 3,036,567.
Miller, Harold C. 3,025,726.
Miller, Harold C. 3,025,847.
Stelmachowski, Carl. 3,037,333.
Super Mold Corp. of California: *See*—
Bader, Melvin R. 3,047,049.
Duerksen, Arnold. 3,015,845.
Duerksen, Arnold. 3,031,743.
Duerksen, Arnold. 3,035,521.
Duerksen, Arnold. 3,060,508.
Roesch, Ernst. 3,030,261.
Roesch, Ernst. 3,067,789.
Sunday, William. 3,023,457.
Super Oil Seals & Gaskets Ltd.: *See*—
Moxon, Leslie A. 3,015,598.
Super Sagless Spring Corp.: *See*—
Katz, Alex J. 3,030,637.
Katz, Alex J. 3,065,474.
Superflexit Ltd.: *See*—
Wilson, John W. 3,037,069.
Superga Societa per Azioni: *See*—
Silombra, Armando. 3,050,874.
Superior Air Products Co.: *See*—
Putman, Laurel E. 3,058,317.
Superior Bedding Co.: *See*—
Erenberg, Victor, and Peck. 3,046,574.
Superior Coach Corp.: *See*—
Hartman, George L., and Bradford. 3,042,141.
Superior Concrete Accessories, Inc.: *See*—
Eriksson, George J., and Hillberg. 3,065,659.
Hillberg, Bror. 3,023,987.
Hillberg, Bror. 3,060,541.
Superior Electric Co., The: *See*—
Burski, Leonard J. G. 3,060,347.
Burski, Leonard J. G. 3,068,388.
Cooley, Robert D. 3,044,008.
Greene, Richard F. 3,064,121.
McCabe, Owen J. 3,060,398.
Perrins, Allen R. 3,068,395.
Perrins, Allen R. 3,068,396.
Perrins, Allen R., Meusel, and Liberi. 3,068,397.
Superior Industries, Inc.: *See*—
Faller, Frederick C. 3,039,759.
Superior Millwork, Inc.: *See*—
Ogburn, Ray E. and C. E., and Blevins. 3,029,868.
Superior Mold & Die Co.: *See*—
Yamokoski, Charles P., Sunthimer, and Brinza. 3,042,-102.
Superior Oil Co., The: *See*—
Bauer, Robert F., and Stratton. 3,043,255.
Braun, Theodor H., and Gerow. 3,055,261.
Rhodes, Aaron D., and Stratton. 3,017,934.
Stratton, Hal. 3,015,361.
Swiger, William F. 3,044,561.
Swiger, William F. 3,051,113.
Superior Separator Co.: *See*—
Wolfe, Walter W., Walstrom, and Nash. 3,034,237.
Superior Sleeprite Corp.: *See*—
Wallen, Frank S. 3,015,113.
Superior Tabbies, Inc.: *See*—
Cunningham, Walter F. 3,070,482.
Superior Valve and Fittings Co.: *See*—
Yocum, William C. 3,025,874.
Yocum, William C. 3,038,490.
Yocum, William C. 3,041,038.
Supernaw, Dwight L., to United States of America, Navy. Enabling device for acoustic torpedo homing systems. 3,015,297, 1–2–62, Cl. 114—23.
Supitilov, Michael C., C. E. Johnson, and O. W. Norton, to Du Kane Corp. Means for embossing plastic belts. 3,061,-873, 11–6–62, Cl. 18—5.6.
Supreme Products Corp.: *See*—
Ondeck, Elmer J. 3,049,775.
Ondeck, Elmer J. 3,054,464.

Supreme Steel Equipment Corp.: *See*—
Ibel, Charles J. 3,042,472.

Sur, John: *See*—
Goodwin, Francis E., and Sur. 3,041,605.

Suran, Jerome J., to General Electric Co. Unijunction relaxation oscillator with transistor, in discharge circuit of charge capacitor, for coupling discharge to output circuit. 3,026,485, 3–20–62, Cl. 331—108.

Surbatovich, Milo: *See*—
Porter, Forrest V., and Surbatovich. 3,043,379.

Surbeck, Leighton H. Self-threading sewing machine needle. 3,060,876, 10–30–62, Cl. 112—224.

Surber, Curtis M., to Automatic Canteen Co. of America. Currency identification device for the blind. 3,045,364, 7–24–62, Cl. 35—35.

Surelock Mfg. Co., Inc.: *See*—
Pagano, Frank. 3,050,080.

Surgical Appliance Industries, Inc.: *See*—
Applegate, Leslie T., Jr., and Lewis. 3,037,209.
Biggs, Ernest R., Jr., and Lewis. 3,046,981.

Suri, Man M. Power transmission unit. 3,065,653, 11–27–62, Cl. 74—720.

Surine, William R., L. A. Pursglove, and W. C. Stoesser, to The Dow Chemical Co. Process for production of aspirin anhydride. 3,061,632, 10–30–62, Cl. 260—480.

Surloff, Bernard. Display package for disc-like objects. 3,044,618, 7–17–62, Cl. 206—80.

Surls, Joseph P., Jr.: *See*—
Long, Ray S., Olson, and Surls. 3,067,010.

Surowiec, Frank F.: *See*—
Rocchi, Ferdinand A., and Surowiec. 3,048,268.

Surplice & Tozer Engineering Co. Ltd.: *See*—
Schofield, Hubert P. 3,055,402.

Surrey, Allen A.: *See*—
Comoran, Leo. 3,026,748.

Surso, Peter P.: *See*—
Hamilton, Wallace, and Surso. 3,021,165.

Surtees, Benjamin J. Fuze mechanisms. 3,015,276, 1–2–62, Cl. 102—76.

Survival Equipment Corp.: *See*—
Hailstone, Dudley K. 3,070,203.

Sury, Ernst: *See*—
Hoffmann, Karl, and Sury. 3,033,868.
Hoffmann, Karl, and Sury. 3,048,594.

Sus, Oskar: *See*—
Hoerl, Helmut, Sus, and Neugebauer. 3,037,861.
Neugebauer, Wilhelm, Süs, and Rebenstock. 3,050,388.
Neugebauer, Wilhelm, Sus, and Rebenstock. 3,061,429.
Neugebauer, Wilhelm, Sus, and Rebenstock. 3,062,644.
Neugebauer, Wilhelm, Süs, and Stumpf. 3,050,387.
Schmidt, Maximilian P., and Süs. 3,029,146.
Schmidt, Maximilian P., and Süs. 3,046,112.
Schmidt, Maximilian P., and Süs. 3,046,113.
Schmidt, Maximilian P., and Süs. 3,046,115.
Schmidt, Maximilian P., and Süs. 3,046,120.

Süs, Oskar, to Azoplate Corp. Diazo compounds and printing plates manufactured therefrom. 3,046,114, 7–24–62, Cl. 96—33.

Süs, Oskar, to Azoplate Corp. Light sensitive material for printing and process for making printing plates. 3,046,117, 7–24–62, Cl. 96—33.

Süs, Oskar, to Azoplate Corp. Light sensitive material for printing and process for making printing plates. 3,046,119, 7–24–62, Cl. 96—33.

Süs, Oskar, to Azoplate Corp. Process of making printing plates and light sensitive material suitable for use therein. 3,046,122, 7–24–62, Cl. 96—33.

Süs, Oskar, to Azoplate Corp. Light-sensitive material for the photo-mechanical preparation of printing plates. 3,050,389, 8–21–62, Cl. 96—33.

Sus, Oskar, and M. Glos, to Kalle Aktiengesellschaft. Heat sensitive reproduction material and method of using same. 3,024,362, 3–6–62, Cl. 250—65.

Süs, Oskar, K.-W. Klüpfel, W. Neugebauer, M. Tomanek, and H. Behmenburg, to Kalle Aktiengesellschaft. Electrophotographic material. 3,041,165, 6–26–62, Cl. 96—1.

Süs, Oskar, W. Neugebauer, and M. P. Schmidt, to Azoplate Corp. Process for making printing plates and light sensitive material for use therein. 3,046,123, 7–24–62, Cl. 96—33.

Süs, Oskar, and M. Glos, to Azoplate Corp. Light sensitive material and process. 3,046,126, 7–24–62, Cl. 96—35.

Sussebach, Walter, to Elektro-Mechanik-G.m.b.H. Electrohydraulic brake. 3,043,405, 7–10–62, Cl. 188—151.

Susselman, Ruth M. Applicators. 3,055,035, 9–25–62, Cl. 15—209.

Susskind, Alfred K.: *See*—
Forrester, Jay W., Pease, McDonough, and Susskind. 3,069,608.

Sussman, Arthur, to Automatic Steam Products Corp. Apparatus for steaming and drying articles. 3,049,903, 8–21–62, Cl. 68—5.

Sussman, Ernst. Adjustable torque sensitive couplings. 3,016,724, 1–16–62, Cl. 64—29.

Sussman, Ernst. Adjustable torque sensitive couplings. 3,068,667. 12–18–62, Cl. 64—29.

Sussman, Martin V.: *See*—
Breen, Alvin L., and Sussman. 3,043,087.

Sussman, Vincent, and S. J. Siner, to Joseph Waldman & Sons. Headers and method of making same. 3,037,070, 5–29–62, Cl. 174—152.

Sutcliffe, Clifford V. M. and E. G. Dispensing nozzle with automatic control. 3,020,940, 2–13–62, Cl. 141—209.

Sutcliffe, Eugene G.: *See*—
Sutcliffe, Clifford V. M. and E. G. 3,020,940.

Suter, Hans, and H. Zutter, to Eprova Ltd. New phenyloxy and phenylalkoxy benzoic acid amides. 3,051,706, 8–28–62, Cl. 260—247.2.

Suter, Henry, to United States of America, Navy. Apparatus for indicating variations in the atmospheric index of refraction. 3,039,355, 6–19–62, Cl. 88—14.

Suter, Hubert: *See*—
Reicheneder, Franz, Dury, Suter, and Willersinn. 3,027,401.

Suter, Oswald, to Technical Oil Tool Corp., Ltd. High angle inclination instrument. 3,047,961, 8–7–62, Cl. 33—205.5.

Sutheim, George M., and H. J. Southcomb, to Audio Devices, Inc. Magnetizable image transfer medium. 3,029,157, 4–10–62, Cl. 117—36.

Sutherland, Bert D., 50% to L. R. Sutherland. Power saw guard retractor. 3,063,481, 11–13–62, Cl. 143—159.

Sutherland, Charles A.: *See*—
Turner, Gordon H., Wellington, Sutherland, and White. 3,063,099.

Sutherland, Charles J.: *See*—
Sutherland, Walter R. and C. J. 3,043,209.

Sutherland, Donald M., and P. R. Tiper, to A.E.I.-John Thompson Nuclear Energy Co. Ltd. Fuel loading device for a nuclear reactor. 3,035,994, 5–22–62, Cl. 204—193.2.

Sutherland, John D., to Copolymer Rubber & Chemical Corp. Aqueous suspension of carbon black, apparatus and method for preparing same, method for mixing same with rubber product obtained thereby. 3,055,856, 9–25–62, Cl. 260—41.5.

Sutherland, Lee R.: *See*—
Sutherland, Bert D. 3,063,481.

Sutherland, Lionel M. Door frame protector. 3,050,232, 8–21–62, Cl. 229—40.

Sutherland, Lionel M., and T. H. Paris, to Tomlon Corp. Process and apparatus for the hydraulic impregnation of cellulosic materials. 3,046,183, 7–24–62, Cl. 162—56.

Sutherland, Richard A.: *See*—
Chapman, Aurelius F., and Sutherland. 3,057,505.

Sutherland, Rodney D.: *See*—
Bowers, Emery J., and Sutherland. 3,041,665.

Sutherland, Walter R. and C. J. Griller for cooking meat and the like. 3,043,209, 7–10–62, Cl. 99—397.

Sutliff, Wayne N. Hydraulic oil well tool. 3,062,305, 11–6–62. Cl. 175—297.

Sutliffe, Frank C., Jr. Thermo-element. 3,022,670, 2–27–62, Cl. 73—368.4.

Sutter, Norman J., to Dalton Mfg. Co. Hose hanger and method of packaging same. 3,029,933, 4–17–62, Cl. 206—46.

Sutter, Norman J., to The Dalton Mfg. Co. Packaging and supporting device. 3,023,891, 3–6–62, Cl. 206—65.

Sutter, Raymond C.: *See*—
Weinstock, Manuel, and Sutter. 3,020,885.

Suttle, Andrew D., Jr.: *See*—
Morrow, Morris R., and Suttle. 3,049,874.

Sutton, Arthur J. Filter device and dispensing unit therefor. 3,019,940, 2–6–62, Cl. 221—48.

Sutton, Blaine M.: *See*—
Gordon, Maxwell, and Sutton. 3,033,867.

Sutton, Donald E., to Hammond Machinery Builders, Inc. Mechanical device. 3,032,940, 5–8–62, Cl. 51—267.

Sutton, Donald E., to Hammond Machinery Builders, Inc. Melting and distributing device for printer's metal. 3,057,025, 10–9–62, Cl. 22—79.

Sutton, Douglas L., to The Rover Co. Ltd. Combustion chambers of compression ignition internal combustion engines 3,044,454, 7–17–62, Cl. 123—32.

Sutton, Earl E.: *See*—
Crease, Pierre L., and Sutton. 3,065,326.

Sutton, Ernest S., Jr., H. T. Reilly, M. G. Berman, and A. Irwin, to Thiokol Chemical Corp. Time delay fuse element. 3,025,795, 3–20–62, Cl. 102—85.

Sutton, Harvey: *See*—
Rasch, Royal H., Leemhuis, and Sutton. 3,069,310.

Sutton, John S.: *See*—
Klein, Martin L., and Sutton. 3,056,949.

Sutton, Louis L. Log handling system. 3,061,121, 10–30–62. Cl. 214—41.

Sutton, Melville G.: *See*—
Winicov, Murray W., and Sutton. 3,029,183.

Sutton, Orval L., and V. W. McQuary, to Gardner-Denver Co. Mud pump valve. 3,057,372, 10–9–62, Cl. 137—516.29.

Sutton, Reid E., and J. L. Bame, to Shell Oil Co. Gasoline composition. 3,063,818, 11–13–62, Cl. 44—69.

Sutton, Reid E., and J. L. Bame, to Shell Oil Co. Gasoline composition. 3,065,065, 11–20–62, Cl. 44—69.

Sutton, Richard M., Jr. Bow string pulling device for archers. 3,028,852, 4–10–62, Cl. 124—35.

Sutton, Robert W., and J. T. Reynolds, to The Goodyear Tire & Rubber Co. Fuel tank fitting. 3,026,070, 3–20–62, Cl. 244—135.

Sutton, Thomas: *See*—
Brooks, Charles, and Sutton. 3,024,147.

Sutton, Thomas A.: *See*—
Brooks, Charles, and Sutton. 3,046,174.
Brooks, Charles, Sutton, and Brownold. 3,045,742.

Suverkrop, Lew. Adjustable plumb bobs. 3,056,211, 10–2–62, Cl. 33—216.

Suyematsu, Herbert T.: *See*—
Fogel, Robert L., and Suyematsu. 3,048,801.
Suyeoka, George M., to Abbott Laboratories. File card box. 3,065,393. 11–20–62, Cl. 129—43.
Suzuki, Kikuji: *See*—
Okuda, Noriyuki, and Suzuki. 3,043,864.
Suzuki, Mamoru: *See*—
Seki, Hideo, Suzuki, and Kawai. 3,029,164.
Suzuki, Seizo: *See*—
Okamoto, Eiichi, Seki, and Suzuki. 3,065,393.
Suzuki, Shigeru, M. Shimoyamada, H. Akabayashi, Y. Ogawa, and T. Iwatsuki, to Nissan Chemical & Industries, Ltd. Process for the production of alkali phosphate. 3,055,735, 9–25–62, Cl. 23—107.
Suzuki, Tsuneshi. Cosmetic composition and preparation of the same. 3,046,199, 7–24–62, Cl. 167—90.
Suzuki, Yasushi: *See*—
Chuman, Isso, Sawai, and Suzuki. 3,040,068.
Suzuki, Yoshiaki, to Taisei Optical Industry Co., Ltd. Camera-binocular coupling means. 3,055,283, 9–25–62, Cl. 95—86.
Suzumura, Hideo: *See*—
Hirano, Katsuaki, Takada, Suzumura, and Nagano. 3,061,884.
Miyahara, Hisao, Hirano, Suzumura, and Nagano. 3,058,-862.
Miyahara, Hisao, and Suzumura. 3,048,530.
Svala, Carl G., and A. K. Bergmann, to Telefonaktiebolaget L M Ericsson. Switch arrangement in a multi-channel-pulse-communication system. 3,052,760, 9–4–62, Cl. 179—15.
Svarz, Jerry J.: *See*—
Bollenback, Carol H., Hunt, Saiot, and Svarz. 3,024,159.
Bollenback, Carol H., Hunt, and Svarz. 3,021,256.
Svaty, Vladimir, to Sdruzeni podniku textilniho strojirenstvi. Pneumatic weft insertion control in looms. 3,065,769, 11–27–62, Cl. 139—127.
Svaty, Vladimir, M. Riha, and L. Taticek, to Sdruzeni podniku textilniko strojirenstvi. Device for selvedge forming. 3,047,027, 7–31–62, Cl. 139—54.
Svaty, Vladimir, M. Otta, and V. Houdek, to Sdruzeni Podniku Textilniho Strojirenstvi. Program control means. 3,057,-224, 10–9–62, Cl. 74—568.
Svatý, Vladimír, and J. Libánský to Sdruzeni podniku textilniho strojirenstvi. Method of closing detector combs of jet weaving looms. 3,065,770, 11–27–62, Cl. 139—127.
Svendsen, Ib H., to Briggs & Stratton Corp. Overrunning clutch. 3,040,853, 6–26–62, Cl. 192—45.
Svendsen, Ib H., to Briggs & Stratton Corp. Valve rotator for internal combustion engines. 3,056,394, 10–2–62, Cl. 123—90.
Svenska AB Toledo: *See*—
Lindqvist, Carl G. L. 3,028,980.
Svenska Ackumulator Aktiebolaget Jungner: *See*—
Jonsson, Erik. 3,025,455.
Jonsson, Erik and Falk. 3,049,578.
Svenska Aeroplan Aktiebolaget: *See*—
Blomberg, Folke I. 3,043,286.
Blomberg, Folke I. 3,057,226.
Martensson, Erik M. 3,058,340.
Martensson, Erik M. 3,065,285.
Svenska Aktiebolaget Bromsregulator: *See*—
Jeppsson, Erik M. 3,019,860.
Larsson, Karl B. 3,043,406.
Svenska Aktiebolaget Gasaccumulator: *See*—
Bergne, Arne. 3,038,244.
Gerlach, Erwin. 3,058,637.
Granqvist, Carl-Erik. 3,020,547.
Granqvist, Carl-Erik. 3,051,950.
Gunnert, Anders R. 3,068,688.
Hellquist, Ivan A. 3,060,933.
Holm, Bengt. 3,054,086.
Lundahl, Lars O. 3,021,451.
Senning, Ake, and Astradsson. 3,065,748.
Svenska Dataregister AB: *See*—
Englund, Gosta R. 3,040,978.
Englund, Gosta R. 3,059,844.
Werner, Sture E. 3,034,717.
Svenska Flaktfabriken, Aktiebolaget: *See*—
Allander, Claes. 3,051,031.
Allander, Claes, and Lärkfeldt. 3,018,088.
Boysen, Arne. 3,049,984.
Conradi, Henrik, de Frumerie, and Andersson. 3,041,954.
Jorman, Göte, and Oholm. 3,028,681.
Mildh, Gösta. 3,039,598.
Mildh, Gösta. 3,065,844.
Pellmyr, Bengt. 3,021,149.
Rosell, Axel. 3,042,078.
Wallin, Sven. 3,060,589.
Wilhelmsson, Gunnar, and Larsson. 3,036,447.
Svenska Flygmotor Aktiebolaget: *See*—
Arvidson, Gunnar. 3,021,711.
Svenska Kullagerfabriken, Aktiebolaget: *See*—
Bratt, Axel E. 3,050,353.
Bratt, Axel E., and Derman. 3,022,125.
Derman, Karl G. E. 3,044,787.
Derman, Karl G. E., and Snare. 3,042,417.
Göthberg, Karl E. A. 3,042,464.
Gothberg, Karl E. A. 3,057,628.
Gothberg, Karl E. A., and Malstrom. 3,057,667.
Kylen, Karl E. J. 3,063,743.
Svenska Maskinverken Aktiebolaget: *See*—
Blomquist, Uno O. 3,043,279.
Svenska Metallwerken, Aktiebolaget: *See*—
Edström, John O. 3,044,867.
Ericsson, Karl F. 3,058,195.
Fredriksson, Per S. E. 3,069,942.
Fredriksson, Per S. E., Granström, and Gustafson. 3,032,289.
Jonason, Karl G. 3,021,128.
Svenska Precisionsverktyg, Aktiebolaget: *See*—
Bernhard, Johann. 3,037,393.
Eriksson, Alf A. A. 3,032,156.
Svenska Relafabriken Abn Ab: *See*—
Eklöv, David. 3,027,428.
Eklöv, David. 3,027,429.
Svenska Rotor Maskiner: *See*—
Persson, Per W. S. 3,031,130.
Svenska Rotor Maskiner Aktiebolag: *See*—
Nilsson, Hans R., and Persson. 3,058,723.
Wagenius, Hans B. 3,045,447.
Svenson, Ernest J., to Odin Corp. Master brake cylinder. 3,040,886, 6–26–62, Cl. 209—72.
Svenson, Ernest J., to Odin Corp. Power transmission for automotive vehicles and the like. 3,040,852, 6–26–62, Cl. 192—3.2.
Svenson, Ernest J., to Odin Corp. Hydraulic actuating method. 3,044,266, 7–17–62, Cl. 60—52.
Svensson, Fritz R.: *See*—
Thuresson af Ekenstam, Bo, and Svensson. 3,039,652.
Svensson, John E. W.: *See*—
Groth, Otto L., Carlson, and Carlsson. 3,017,218.
Svetlik, Joseph F., Sr.: *See*—
Jones, Rufus V., and Svetlik. 3,035,954.
Svetsmekano, Aktiebolaget: *See*—
Gustavsson, John O. 3,058,379.
Svidercoschi, Virginio, to S.r.l. Cogera Compagnia Generale Rappresentanze. Perforator for tapes with punches controlled through electromagnets. 3,040,610, 6–26–62, Cl. 83—513.
Svien, Arlon J.: *See*—
Spogen, Leo R., Jr., and Svien. 3,064,211.
Svigals, Jerome, and I. C. Liggett, to International Business Machines Corp. Information compression and expansion system. 3,064,239, 11–13–62, Cl. 340—172.5.
Svit, narodni podnik: *See*—
Kremel, Viktor, and Bouchal. 3,040,348.
Svoboda, George, to Western Electric Co., Inc. Clamping fixture. 3,029,072, 4–10–62, Cl. 269—14.
Svoboda, George, R. K. Jacobsen, and M. Nozette, to Bradley Industries, Inc. Hinges. 3,061,137, 10–30–62, Cl. 220—31.
Svojse, George M. Hip pants supporter. 3,069,691, 12–25–62, Cl. 2—337.
Svrchek, Joseph G., and W. S. Rae, to Dearborn Chemical Co. Method of applying heat-reactive copolymer onto a surface. 3,028,257, 4–3–62, Cl. 117—46.
Swails, Roy. Releasable anchor. 3,021,812, 2–20–62, Cl. 114—208.
Swails, Roy. Retractable arrow. 3,036,396, 5–29–62, Cl. 43—6.
Swaim, Frank H., and F. A. Oyhus, to United States of America, Navy. Thrust vector control system. 3,034,434, 5–15–62, Cl. 102—50.
Swaim, John L.: *See*—
Barkstrom, Elmer E., Swaim, and Wennerberg. 3,037,269.
Swain, Alfred T.: *See*—
Whitman, Carl G., and Swain. 3,021,412.
Swain, Arthur B., Jr.: *See*—
Rough, Robert R., and Swain. 3,057,175.
Swain, Charles J., to Zephyr Mfg. Co. Sheet dimpling apparatus and method. 3,051,830, 8–28–62, Cl. 219—149.
Swain, Frank E. Valve. 3,025,035, 3–13–62, Cl. 251—306.
Swain, Frank E., ½ to David F. Wiseman & Sons Ltd. Reconrol valves. 3,027,909, 4–3–62, Cl. 137—219.
Swain, Frank E., ½ to David F. Wiseman & Sons Ltd. Butterfly valves. 3,030,066, 4–17–62, Cl. 251—164.
Swain, Geoffrey: *See*—
Hull, Roy, and Swain. 3,036,073.
Swain, Howard W.: *See*—
Gottshall, Ralph L., Peters, and Swain. 3,035,908.
Gottshall, Ralph L., and Swain. 3,017,359.
Swain, Kenneth W., to The Chase-Shawmut Co. Protection of semiconductor diodes. 3,020,370, 2–6–62, Cl. 200—120.
Swain, William H., to Electro-Mechanical Research, Inc. Frequency modulation systems. 3,023,377, 2–27–62, Cl. 332—23.
Swain, William H., to Electro-Mechanical Research, Inc. Frequency modulated oscillator. 3,025,477, 3–13–62, Cl. 332—30.
Swaine, John: *See*—
Crowther, Philip A. T., and Swaine. 3,025,839.
Crowther, Philip A. T., and Swaine. 3,039,445.
Swainson, Edward L., to Northrop Corp. Coil-fabricating method. 3,020,627, 2–13–62, Cl. 29—155.57.
Swainson, Edward L., to Northrop Corp. Null shifting device for microsyn. 3,032,730, 5–1–62, Cl. 336—134.
Swainson, Edward L., and S. E. Borg, to Northrop Corp. Apparatus for adjusting sealed mechanisms. 3,046,797, 7–31–62, Cl. 74—5.4.
Swakon, Edward A., to Standard Oil Co. Dialkyl esters of 5-t-alkylisophthalic acid. 3,021,357, 2–13–62, Cl. 260—475.

Swales, Frank, R. J. Kurvers, and H. S. Green, to Lockheed Aircraft Corp. Thermal actuator. 3,019,653, 2–6–62, Cl. 73—368.3.

Swalheim, Donald A.: *See*—
Fullhart, Lawrence, Jr., and Swalheim. 3,051,595.

Swalley, Robert F.: *See*—
Aligood, Jay R., and Swalley. 3,069,993.

Swallow, Austin B. and C. E., Jr. Two ply electromagnetic energy reflecting fabric. 3,047,860, 7–31–62, Cl. 343—18.

Swallow, Chandler E., Jr.: *See*—
Swallow, Austin B. and C. E., Jr. 3,047,860.

Swamer, Frederic W.: *See*—
Mastrangelo, Sebastian V. R., and Swamer. 3,026,359.

Swan, George D. Stall enclosure. 3,060,453, 10–30–62, Cl. 4—146.

Swan Mira-Pools, Inc.: *See*—
Sundstrum, Stratton W. 3,049,835.

Swan, Robert. Finger rest attachment for firearms. 3,031,-786, 5–1–62, Cl. 42—1.

Swan, Stewart D.: *See*—
Gostin, Ernest L., and Swan. 3,032,436.

Swaneck, Anthony J. Jr., and G. M. Ewers, to Westinghouse Electric Corp. Refrigeration apparatus. 3,038,218, 6–12–62, Cl. 20—69.

Swaney, Andrew R. Portable window seat. 3,038,554, 6–12–62, Cl. 182—58.

Swaney, James B., to Burlington Industries, Inc. Texturing jet. 3,026,597, 3–27–62, Cl. 28—1.

Swaney, Robert C. Cooled rotary joint having a plurality of concentrically arranged conduits. 3,017,202, 1–16–62, Cl. 285—41.

Swaney, Robert C. Stabil-heat drier. 3,022,047, 2–20–62, Cl. 257—95.

Swank, George: *See*—
Boyack, Gerald A., and Swank. 3,035,910.

Swank, Rehl W., to A. O. Smith Corp. Fuel dispensing unit. 3,021,032, 2–13–62, Cl. 222—30.

Swank, Richard E. Automatic display device. 3,016,640, 1–16–62, Cl. 40—36.

Swank, Roland P., and H. M. Croner, to General Electric Co. Gas turbine starter. 3,056,580, 10–2–62, Cl. 253—45.

Swanke, Kenneth V.: *See*—
Grotz, Charles A., Reinhart, and Swanke. 3,055,174.

Swann, A. W., and Co. Ltd.: *See*—
Bolton, Wilfred. 3,063,272.
Bolton, Wilfred. 3,068,676.

Swann, Melvin H., to United States of America, Army. Process and composition for rust-proofing ferrous stock. 3,042,-554, 7–3–62, Cl. 148—6.15.

Swanser, Frank H. Rocket propulsion method and means. 3,043,221, 7–10–62, Cl. 102—49.

Swanson, Allan C., to Nu-Matic Nailer International Corp. Nailing machine. 3,067,423, 12–11–62, Cl. 1—46.

Swanson, Arden E., to Atkinson Bulk Transport Co. Material conveying device. 3,058,780, 10–16–62, Cl. 302—49.

Swanson, Arthur M.: *See*—
Calbert, Harold E., Swanson, and Giroux. 3,054,674.

Swanson, Caleb V., Jr., and R. W. Feldt. Toilet training apparatus. 3,020,528, 2–6–62, Cl. 340—235.

Swanson, A. Coil winding machine. 3,061,214, 10–30–62, Cl. 242—9.

Swanson, Carl E., to Duro-Test Corp. Method of producing crystal pattern and the product. 3,066,040, 11–27–62, Cl. 117—42.

Swanson, Clayton A., Jr. Combination boat and grill. 3,032,-783, 5–8–62, Cl. 9—1.

Swanson, Daisy S. Portable clothesline. 3,021,091, 2–13–62, Cl. 242—107.

Swanson, Donald F., to Whirlpool Corp. Home appliance. 3,061,871, 11–6–62, Cl. 16—180.

Swanson, Donald W., to Motorola, Inc. Plated circuit process. 3,052,957, 9–11–62, Cl. 29—155.5.

Swanson, Douglas L.: *See*—
Merchant, Chester O., and Swanson. 3,065,530.

Swanson, Edwin C., to Greenlee Bros. & Co. Pipe bender. 3,034,514, 5–15–62, Cl. 153—48.

Swanson, Edwin C., to Greenlee Bros. & Co. Pump. 3,066,-610, 12–4–62, Cl. 103—10.

Swanson, Elmer C. Combination closure and opener on stitched bags. 3,045,890, 7–24–62, Cl. 229—66.

Swanson, Emery C.: *See*—
Perrozzi, Joseph R., Swanson, Walker, and Cheng. 3,038,808.

Swanson-Erie Corp.: *See*—
Merchant, Chester O. 3,039,597.
Merchant, Chester O. 3,048,205.
Merchant, Chester O., and Swanson. 3,065,530.

Swanson, Floyd A., to National Automatic Tool Co., Inc. Honing apparatus. 3,025,642, 3–20–62, Cl. 51—34.

Swanson, George J., and E. Kokalas, to The Bendix Corp. Socket contact. 3,023,396, 2–27–62, Cl. 339—258.

Swanson, Gunnar E., to The Nielsen Hardware Corp. Catch for a packing case or the like. 3,070,396, 12–25–62, Cl. 292—247.

Swanson, Gunnar E., to The Nielsen Hardware Corp. Fastening device. 3,026,133, 3–10–62, Cl. 292—113.

Swanson, Harold E. Minnow dipper and holder. 3,059,369, 10–23–62, Cl. 43—4.

Swanson, Harold E. Minnow dipper and holder. 3,065,561, 11–27–62, Cl. 43—4.

Swanson, Herbert F., to Market Forge Co. Shelf structure. 3,065,860, 11–27–62, Cl. 211—153.

Swanson, Hilmer I., to The Bendix Corp. Electric heater systems. 3,060,298, 10–23–62, Cl. 219—20.

Swanson, Hilmer S. Balance apparatus for wind tunnel. 3,020,754, 2–13–62, Cl. 73—147.

Swanson, Homer T.: *See*—
Swanson, Kenneth L. and H. T. 3,061,378.

Swanson, James A., to Marmon-Herrington Co., Inc. Shooting car for underground mine operation. 3,027,146, 3–27–62, Cl. 262—8.

Swanson, James A., and D. P. Graham, to Marmon-Herrington Co., Inc. Mining machine with stepper mechanism. 3,055,-447, 9–25–62, Cl. 180—8.

Swanson, Kenneth L. and H. T. Silo unloading machine. 3,061,378, 10–30–62, Cl. 302—23.

Swanson, Kenneth P., to Progressive Engineering, Inc. Top roll. 3,052,953, 9–11–62, Cl. 29—116.

Swanson, Larry: *See*—
Deal, Bruce E., and Swanson. 3,031,387.

Swanson, Nils H., to Western Electric Co., Inc. Work feeding devices. 3,039,665, 6–19–62, Cl. 226—152.

Swanson, Paul F., to The M. W. Kellogg Co. Apparatus and method for hydrocarbon conversion of two separate feeds. 3,053,752, 9–11–62, Cl. 208—78.

Swanson, Richard L. Nylon drill chuck. 3,042,419, 7–3–62, Cl. 279—103.

Swanson, Roger P. to Alumakit Co., Inc. Light-weight metal boat. 3,064,283, 11–20–62, Cl. 9—6.

Swanson, Rolf G.: *See*—
Langsetmo, Peder, Swanson, and Work. 3,038,672.

Swanson, Russell K. Cantilever shopping cart and counter assembly. 3,052,319, 9–4–62, Cl. 186—1.

Swanson, Stanley C.: *See*—
White, Thomas E., and Swanson. 3,036,944.

Swanson, Vernon E., to Diamond National Corp. Collapsible egg carton. 3,016,179, 1–9–62, Cl. 229—29.

Swanson, Vernon E., to Diamond National Corp. Egg carton. 3,034,696, 5–15–62, Cl. 299—28.

Swanton, Charles J., to General Railway Signal Co. Highway crossing protection system. 3,038,991, 6–12–62, Cl. 246—125.

Swanton, Walter F., to United States of America, Atomic Energy Commission. Fluid purifier and sealing valve. 3,031,174, 4–24–62, Cl. 261—158.

Swarofsky, Walter, and D. Bluhm, to Voigtlander A.G. Photographic camera having a frame counter for indicating the film supply. 3,057,277, 10–9–62, Cl. 95—31.

Swart, Kenneth H., to H. C. Smith Oil Tool Co. Bit lubricator. 3,029,881, 4–17–62, Cl. 175—228.

Swart, Tjebbe E. Single handle mixer faucet. 3,030,980, 4–24–62, Cl. 137—625.17.

Swarthout, Rassele E., to Challenge-Cook Bros. Inc. Machine for spraying plaster and the like. 3,025,803, 3–20–62, Cl. 103—170.

Swarthout, Rassele E., to Challenge-Cook Bros., Inc. Materials mixer. 3,043,571, 7–10–62, Cl. 259—152.

Swartwood, Gerald L., to The Bryant Electric Co. Mounting means for a wiring device. 3,059,045, 10–16–62, Cl. 174—53.

Swartwout, Paul F. Fermentation vessel. 3,038,841, 6–12–62, Cl. 195—139.

Swartz, George B., Jr., to Gulf Research & Development Co. Process for upgrading catalytically cracked gasoline. 3,044,950, 7–17–62, Cl. 208—57.

Swartz, Harold L.: *See*—
Petts, Ronald G., and Swartz. 3,067,873.

Swartz, Michael D. Electrical stimulus animal activity wheel. 3,057,328, 10–9–62, Cl. 119—29.

Swartz, Richard L., to Universal Business Machines, Inc. Double-digit relay selector system. 3,021,509, 2–13–62, Cl. 340—166.

Swartz, Russell H. Animal hoof attachment. 3,023,812, 3–6–62, Cl. 168—23.

Swartz, William. Label positioning apparatus. 3,057,073, 10–9–62, Cl. 33—180.

Swartz, William E., to Hagan Chemicals & Controls, Inc. Needle and clamp for use in pumping hams and the like. 3,043,208, 7–10–62, Cl. 99—257.

Swartz, William E., to Hagan Chemicals & Controls, Inc. Measuring device. 3,057,420, 10–9–62, Cl. 177—30.

Swartzman, Joseph A., to Philco Corp. Fabrication of semiconductor devices. 3,039,514, 6–19–62, Cl. 156—345.

Swasey, Samuel E.: *See*—
Bienvenue, Roland L., Stacey, and Swasey. 3,063,474.
Dick, Herbert K., Kulberg and Swasey. 3,036,719.

Swasey, Samuel E., J. W. Wallace, and E. F. Stacey, to Sylvania Electric Products Inc. Lamp stem head. 3,063,130, 11–13–62, Cl. 29—25.19.

Swasey, Samuel E., R. L. Bienvenue, and D. J. Dwinell, to Sylvania Electric Products Inc. Electric lamp. 3,069,583, 12–18–62, Cl. 313—317.

Swatman, Ivan M.: *See*—
Howes, Benjamin T., and Swatman. 3,062,497.

Swatman, Ivan M., to Ford Motor Co. Gas turbine engine. 3,045,966, 7–24–62, Cl. 253—39.1.

Swatman, Ivan M., to Ford Motor Co. Gas turbine engine. 3,067,981, 12–11–62, Cl. 253—39.

Swats, John H., and S. E. Hagerty, to The Bendix Corp. Method of making a control mechanism. 3,069,764, 12–25–62, Cl. 29—436.

Swearingen, Judson S. Turbo-expander-compressor units. 3,069,133, 12–18–62, Cl. 253—39.

Swearingen, Judson S., and H. Levin, to National Tank Co. Absorption type refrigeration system. 3,041,843, 7–3–62, Cl. 62—105.
Swed, James P.: *See*—
Breza, Cyril J., Hague, v. d. Luft, and Swed. 3,062,142.
Sweden Freezer Mfg. Co.: *See*—
Briscoe, Donald M. 3,045,988.
Clark, Charles W., Jr. 3,052,103.
Patch, Robert S., and Swenson. 3,045,441.
Patten, Leigh M. 3,069,144.
Swenson, Harvey F. 3,068,889.
Swedlin, Jacob. Doll's eyes for stuffed dolls. 3,058,262, 10–16–62, Cl. 46—169.
Swedlow Inc.: *See*—
Clapp, Robert J., and Jameson. 3,020,596.
Clapp, Robert J., Latham, and Strasbourg. Re. 25,202.
Sweeney, Cecil J., and H. E. Sullenger, to Phillips Petroleum Co. Method and apparatus for controlling a distillation system. 3,039,941, 6–19–62, Cl. 202—40.
Sweeney, Dura W.: *See*—
Brooks, Frederick P., Jr., and Sweeney. 3,048,332.
Sweeney, Edward J., W. W. Toy, and P. J. McLaughlin, to Rohm & Haas Co. Paper impregnating compositions, impregnated papers and the process of impregnating paper. 3,020,178, 2–6–62, Cl. 117—155.
Sweeney, Frank B. Fuel injector. 3,016,889, 1–16–62, Cl. 123—119.
Sweeney, George J.: *See*—
O'Day, Cortland N., and Sweeney. 3,064,550.
O'Day, Cortland N., and Sweeney. 3,067,669.
Sweeney, Harold E., and C. W. Baugh, to Westinghouse Electric Corp. Multiplex communication systems. 3,069,679, 12–18–62, Cl. 343—200.
Sweeney, James C. Clamping mechanism. 3,044,765, 7–17–62, Cl. 269—228.
Sweeney, James P., and M. E. Martin, to United States of America, Agriculture. Process for protection of chlorophyll during cooking of green vegetables. 3,044,882, 7–17–62, Cl. 99—103.
Sweeney, John F., Jr.: *See*—
Tronslin, Cyril B., Sweeney, Brede, and Dorsett. 3,023,280.
Sweeney, John J.: *See*—
Feller, Robert G., and Sweeney. 3,047,448.
Sweeney, John L., to International Business Machines Corp. Electronic selection means. 3,069,678, 12–18–62, Cl. 343—11.
Sweeney, Patrick E.: *See*—
Critcher, John L., La Costa, Sweeney, and Barr. 3,033,-116.
Sylvester, David, and Sweeney. 3,039,365.
Sweeney, Richard F.: *See*—
Cunningham, William J., Sweeney, and Woolf. 3,047,639.
Sweeney, Richard F., and C. Woolf, to Allied Chemical Corp. Production of butyryl halides. 3,018,306, 1–23–62, Cl. 260—544.
Sweeney, Richard F., and C. Woolf, to Allied Chemical Corp. Production of fluoropropene. 3,047,640, 7–31–62, Cl. 260—653.4.
Sweeney, Victor D., and W. U. Kaji, to Metal Pumping Services, Inc. Pump for molten metal. 3,048,384, 8–7–62, Cl. 266—38.
Sweeney, William M., to Texaco Inc. Organometallic compounds and process for producing same. 3,035,075, 5–15–62, Cl. 260—439.
Sweeney, William M., and J. A. Patterson, to Texaco Inc. Process for making butyrolactone. 3,061,614, 10–30–62, Cl. 260—343.6.
Sweeny, Allen N., to De Vlieg Machine Co. Adjustable boring head. 3,044,323, 7–17–62, Cl. 77—58.
Sweeny, Allen N., and R. A. Jerue, to De Vlieg Machine Co. Blade facing tool. 3,069,932, 12–25–62, Cl. 77—58.
Sweeny, Norman P.: *See*—
Blue, Robert D., Sweeny, and Neipert. 3,019,279.
Sweet, Adwin B.: *See*—
Malunowe, Edward W., and Sweet. 3,018,904.
Sweet, Andrew T.: *See*—
Burkett, Albert L., and Sweet. 3,065,919.
Sweet, Donald L.: *See*—
Bagnuk, William W., and Sweet. 3,043,357.
Sweet, Donald L., and S. A. Kyriakides, to The General Tire & Rubber Co. Puncture sealing means for pneumatic tires. 3,048,509, 8–7–62, Cl. 154—43.5.
Sweet, George B.: *See*—
Bailey, William A. 3,033,162.
Bailey, William A. 3,048,094.
Sweet, Ralph W. W. Multiple gang discer. 3,066,746, 12–4–62, Cl. 172—234.
Sweet, Ronald L.: *See*—
Minnich, John W., and Sweet. 3,017,414.
Sweetenham, Walter M.: *See*—
Duckitt, Harry, and Sweetenham. 3,046,390.
Sweetman, William G. Explosive-actuated well tool anchor. 3,026,939, 3–27–62, Cl. 166—55.
Sweett, Henry C., C. H. A. Parsley, and J. Smith, to The Sperry Gyroscope Co. Ltd. Slip ring assembly. 3,042,998, 7–10–62, Cl. 29—155.5.
Sweger, Theodore J., to Illinois Railway Equipment Co. Journal box construction for railway cars. 3,019,064, 1–30–62, Cl. 308—238.
Sweger, Theodore J., to Illinois Railway Equipment Co. Railway journal box construction. 3,027,203, 3–27–62, Cl. 308—38.
Sweigart, David, to Sweigart Protection Co., Inc. Fire escape apparatus. 3,026,959, 3–27–62, Cl. 182—11.
Sweigart Protection Co., Inc.: *See*—
Sweigart, David. 3,026,959.
Swenck, George F.: *See*—
De Ridder, Ernst J., and Swenck. 3,062,338.
Swengel, Robert C., to AMP Inc. Electrical connection. 3,038,958, 6–12–62, Cl. 174—94.
Sweger, Russell P., A. A. Horton, and W. G. Young, to Barber-Colman Co. Means for operating a valve or the like in accordance with a controlled condition. 3,050,257, 8–21–62, Cl. 236—74.
Swenson, Alfred G., and H. S. Foster, to General Electric Co. Steam and liquid spray iron. 3,041,757, 7–3–62, Cl. 38—77.
Swenson, Carl E. Fish lure. 3,031,792, 5–1–62, Cl. 43—42.2.
Swenson, Charles. Turn signal controlling switch for vehicles. 3,055,997, 9–25–62, Cl. 200—61.3.
Swenson, Eugene D.: *See*—
Krenke, Norman O., and Swenson. 3,030,153.
Swenson, Harvey F.: *See*—
Patch, Robert S., and Swenson. 3,045,441.
Swenson, Harvey F., to Sweden Freezer Mfg. Co. Mix-and-air feed system for dispensing freezers. 3,068,889, 12–18–62, Cl. 137—386.
Swenson, Jack S., to Minnesota Mining and Mfg. Co. Pressure sensitive adhesive tape. 3,017,989, 1–23–62, Cl. 206—59.
Swenson, Oscar W.: *See*—
Recca, Pasquale F., Swenson, and Johnson. 3,033,925.
Swerdlow, Nathan, to General Electric Co. Sealed joint for interconnecting an electric bus and associated electric apparatus. 3,052,148, 5–22–62, Cl. 174—85.
Swern, Daniel, to United States of America, Agriculture. Vinyl 9,10-epoxystearate. 3,020,292, 2–6–62, Cl. 260—348.
Swern, Daniel, and H. B. Knight, to United States of America, Agriculture. Epoxidized animal fat diacetoglycerides as plasticizers. 3,049,504, 8–14–62, Cl. 260—23.
Swern, Daniel, and J. E. Coleman, to United States of America, Agriculture. Method for preparing α-stearolactone. 3,054,804, 9–18–62, Cl. 260—343.6.
Swett, Alan M.: *See*—
Sloan, Donald D., and Swett. 3,036,519.
Swett, Arthur H., Jr., to American Tag Co. Marking fowl or the like. 3,021,630, 2–20–62, Cl. 40—21.
Sweet, Richard C.: *See*—
Hughes, Ray C., and Sweet. 3,023,389.
Swezey, Arthur W., to The Dow Chemical Co. Method and composition for the treatment of soil. 3,049,472, 8–14–62, Cl. 167—39.
Swezey, Edwin W., and R. J. McKnight, to The Rapids-Standard Co., Inc. Conveyor. 3,034,637, 5–15–62, Cl. 198—160.
Swezy, Montgomery C., to Western Progress, Inc. Vehicle mounted traffic warning device and mounting bracket therefor. 3,046,934, 7–31–62. Cl. 116—173.
Swick, Edwin G., to Illinois Tool Works Inc. Trimmer capacitors. 3,034,027, 5–8–62, Cl. 317—249.
Swick, John M.: *See*—
Fino, Alexander F., and Swick. 3,033,413.
Swick, Robert M.: *See*—
Campbell, James F., and Swick. 3,067,576.
Sobey, Albert J., and Swick. 3,032,980.
Swickard, Earl O., Jr.: *See*—
Klehn, Robert M., King, Peterson, and Swickard. 3,041,263.
Swicklik, Leonard J.: *See*—
Kuhrt, Noel H., and Swicklik. 3,068,103.
Swidler, Ronald: *See*—
Brown, Louise H., and Swidler. 3,065,248.
Pfeiffer, Robert H., Brandon, and Swidler. 3,036,100.
Swidler, Ronald, to Olin Mathieson Chemical Corp. Benzazaboroxanes and their preparation. 3,047,609, 7–31–62, Cl. 260—462.
Swierbut, Michael N., and C. J. Teggelaar, to Grand Rapids Hardware Co. Weatherstrip and counterbalance assembly and counterbalance therefor. 3,028,640, 4–10–62, Cl. 20—52.
Swift & Co.: *See*—
Bonami, Ernest. 3,051,581.
Bradford, Purdy. 3,039,107.
Brendle, John A., and Beland. 3,055,045.
Farbak, John E., Gebel, and Gibson. 3,021,221.
Findley, Thomas W. 3,042,692.
Findley, Thomas W., Ohlson, and Kuester. 3,035,069.
Findley, Thomas W., Robin, and Farbak. 3,033,796.
Fritz, Earle, Bornfleth, and Becktel. 3,028,403.
Gibson, Paul, Farbak, and Murphy. 3,021,228.
Greenberg, Richard A. 3,025,168.
Griffin, Roger L. 3,040,554.
Harper, Robert H. 3,069,272.
Harper, Robert H., Trombly, and Bonheimer. 3,033,687.
Hlavacek, Robert J., Sauvage, and Dillehay. 3,052,984.
Hlavacek, Robert J., Sauvage, Dillehay, and Swift. 3,055,046.
Hlavacek, Robert J., Sauvage, and Swift. 3,039,135.
Hogan, John M. 3,052,551.
Janota, Rudolph B., and Gavin. 3,025,256.
Jensen, Carl W. 3,065,630.
Kidger, David P. 3,042,530.
Kuester, Frank E., and Ohlson. 3,070,608.
Lang, Warren H., and Gould. 3,055,733.

Swift & Co.: *See*—Continued
Mains, John H. 3,039,429.
Murphy, John F. and R. E. 3,025,170.
Oliver, Robert J., and Voegeli. 3,028,246.
Peglow, William E. 3,020,092.
Reichel, Howard G., and Lis. 3,015,350.
Rhodes, Philip H. 3,055,778.
Rhodes, Philip H., and Findley. 3,047,415.
Rogers, Russell H., and Opem. 3,047,496.
Rueckert, Dean E. 3,051,222.
Rueckert, Dean E., and Lind. 3,020,686.
Sacwert, Harold E., and Kuester. 3,041,195.
Van Dolah, Delos B. 3,060,036.
Watt, Desmond B. 3,047,398.
Young, Harland H., and Harrill. 3,021,321.
Young, Harland H., and Lauce. 3,070,483.
Young, Harland H., Newman, and Majka. 3,055,796.
Swift, Gilbert, to Dresser Industries, Inc. Cable stretch corrector. 3,067,519, 12–11–62, Cl. 33—127.
Swift, Harvey E., to Kelsey-Hayes Co. Brake assembly. 3,061,051, 10–30–62, Cl. 188—78.
Swift, James L., and F. C. Evans, to American District Telegraph Co. Adjustable vent. 3,042,079, 7–3–62, Cl. 138—42.
Swift, Norman: *See*—
Hlavacek, Robert J., Sauvage, Dillehay, and Swift. 3,055,046.
Hlavacek, Robert J., Sauvage, and Swift. 3,039,135.
Swiger, William F., to Shell Oil Co. and Continental Oil Co., The Superior Oil Co., and The Union Oil Co. of California. Support structure. 3,044,561, 7–17–62, Cl. 175—8.
Swiger, William F., to Shell Oil Co., Continental Oil Co., The Superior Oil Co., and Union Oil Co. of California. Apparatus for supporting floating load. 3,051,113, 8–28–62, Cl. 114—.5.
Swigert, Roger D.: *See*—
Dietrich, Joseph J., and Swigert. 3,065,204.
Swiggett, Robert L., to Printed Motors, Inc. Printed circuit armature. 3,023,333, 2–27–62, Cl. 310—268.
Swimmer, Ernest J., and R. I. Koontz. Toy punched-card illuminated reader. 3,059,346, 10–23–62, Cl. 35—9.
Swimmer, Ernest J., and R. I. Koontz. Pencil sharpener. 3,059,617, 10–23–62, Cl. 120—96.
Swimmer, James A.: *See*—
Eisner, Burton D., Swimmer, and Sugarman. 3,027,285.
Swimquip, Inc.: *See*—
Baker, William O. 3,030,108.
Baker, William O. 3,067,879.
Baker, William O., and Prizler. 3,019,905.
Prizler, Paul D., and Stanwood. 3,065,820.
Swindell-Dressler Corp.: *See*—
Champlin, John R. 3,048,383.
Keen, Douglas H., and Paxton. 3,064,918.
Pugsley, Hugh J., and Neville. 3,052,456.
Swindell, George O., to Christensen Tool and Engineering Co. Diver's weight. 3,039,273, 6–19–62, Cl. 61—70.
Swinehart, Frank, to The Turner Co. Acoustically compensated microphone with adjustable acoustic resistance. 3,061,690, 10–30–62, Cl. 179—115.5.
Swinehart, Merle R.: *See*—
Richter, Walther, and Swinehart. 3,059,176.
Swing, Charles E., to Eastman Kodak Co. Card retainer. 3,026,108. 3–20–62, Cl. 271—18.
Swingline, Inc.: *See*—
Ruskin, Henry. 3,022,508.
Ruskin, Henry, and Ciechanowski. 3,041,618.
Swingline Industrial Corp.: *See*—
Pasan, Seymour. 3,037,207.
Swingspout Measure Co.: *See*—
Rives, Malcolm D., Robertson, and Allen. 3,037,408.
Swinn, Moyle A. Male urinal. 3,032,038, 5–1–62, Cl. 128—295.
Swinney, Gordon W., to Phillips Petroleum Co. Underground storage. 3,056,265, 10–2–62, Cl. 61—.5.
Swinyar, Theodore C. Compositions containing 2,4,5-trichlorphenol for the prevention of fungal and algal growth. 3,034,953, 5–15–62, Cl. 167—31.
Swisher, Horton E., to Sunkist Growers, Inc. Solid essential oil flavoring composition and process for preparing the same. 3,041,180, 6–26–62, Cl. 99—140.
Swisher, Jno. H., & Son, Inc.: *See*—
Respess, Richard D. 3,057,361.
Swisher, Thomas H., to General Electric Co. Oven venting system. 3,059,089, 10–16–62, Cl. 219—35.
Swislow, Sidney, to Harwood Mfg. Co. Flange to base mounting structure. 3,021,105, 2–13–62, Cl. 248—223.
Swiss Colony Inc., The: *See*—
Whitenack, Mirl E. 3,059,663.
Swiss Gas Stove Co.: *See*—
Hönger, Guido. 3,029,866.
Hönger, Guido. 3,044,538.
Swiss Knitting Co., Inc.: *See*—
Kattermann, David W. 3,030,630.
Kattermann, David W. and E. J. 3,060,938.
Swiss Serum and Vaccine Institute: *See*—
Zahler, Peter H. 3,015,673.
Switch, Aloysius C., to Western Electric Co., Inc. Apparatus for dispensing fluid material. 3,025,817, 3–20–62, Cl. 113—93.
Switchcraft, Inc.: *See*—
Bailey, James R. 3,047,700.
Switzer Brothers: *See*—
Parker, Donald W., Jr. 3,028,338.
Switzer, Joseph L. 3,057,806.
Switzer, Joseph L., to Switzer Brothers, Inc. Fluorescent crayons. 3,057,806, 10–9–62, Cl. 252—301.2.
Switzgable, Harold E., Jr. Sheet metal panel and method of making same. 3,070,196, 12–25–62, Cl. 189—34.
Swivelier Co., Inc.: *See*—
Copping, Brian G. 3,042,798.
Schwartz, Nathan R. 3,020,331.
Schwartz, Nathan R. 3,022,096.
Swoboda, Leo F.: *See*—
Reinhard, Karl J., and Swoboda. 3,022,028.
Swoboda, Leo F., to Kaiser Aluminum & Chemical Corp. Vehicle wheel. 3,043,631, 7–10–62, Cl. 301—6.
Swoboda, Thomas J.: *See*—
Ingraham, John N., and Swoboda. 3,034,988.
Ingraham, John N., and Swoboda. 3,068,176.
Swoboda, Thomas J., to E. I. du Pont de Nemours and Co. Preparation of ilmenite-type compounds. 3,039,964, 6–19–62, Cl. 252—.5.
Swoboda, Thomas J., to E. I. du Pont de Nemours and Co. Ilmenite-type complex manganese oxides and preparation thereof. 3,039,965, 6–19–62, Cl. 252—62.5.
Syarto, Louis W.: *See*—
Meisenheimer, Daniel T., and Syarto. 3,041,742.
Meisenheimer, Daniel T., Jr., and Syarto. 3,052,777.
Sybertz, Gustav J. and J. F., and P. R. H. Voelskow, to Hombak Maschinenfabrik K.G. Blade structure and mounting means for a cylinder type cutter. 3,017,912, 1–23–62, Cl. 144—230.
Sybertz, Johannes F.: *See*—
Sybertz, Gustav J. and J. F., and Voelskow. 3,017,912.
Sydnor, Richard L.: *See*—
O'Meara, Thomas R., and Sydnor. 3,039,060.
Sydow, Thomas K.: *See*—
Van Syon, Abraham G., Sr., Almy, and Sydow. 3,047,883.
Syers, Roland, to Chemical Construction Corp. Manufacture of phosphoric acid. 3,022,136, 2–20–62, Cl. 23—165.
Syers, Roland, to Chemical Construction Corp. Production of superphosphates. 3,022,155, 2–20–62, Cl. 71—40.
Syfert, Thomas J., to Zanco Inc. Refrigeration defrost device. 3,055,188, 9–25–62, Cl. 62—267.
Sykes, Ben: *See*—
Powley, Mallinson, and Sykes. 3,018,476.
Sykes, Clarke C.: *See*—
De Coriolis, Ernest G., Pierre, and Sykes. 3,019,007.
Sykes, James M. Cigarette dispenser. 3,047,192. 7–31–62, Cl. 221—143.
Sykes, Neville B.: *See*—
Thompson, William, and Sykes. 3,070,135.
Sykes, W. E., Ltd.: *See*—
Hopkins, Jack R., and Parkinson. 3,024,707.
Sykora, George E., to Well Surveys Inc. Process for dimensionally stabilizing articles fabricated from polytetrafluoroethylene. 3,045,288, 7–24–62, Cl. 18—55.
Sylvander, Frederick B., to The Bendix Corp. Monitor circuit and arrangement for dual data transmission systems. 3,038,149, 6–5–62, Cl. 340—198.
Sylvander, Nels E., to Consolidation Coal Co. Fluidized low temperature carbonization of caking bituminous coal. 3,070,515, 12–25–62, Cl. 202—25.
Sylvania Electric Products Inc.: *See*—
Aia, Michael A. 3,065,053.
Aia, Michael A. 3,068,067.
Alexander, Robert H., and Specht. 3,023,469.
Amey, George B. 3,065,772.
Anderson, Lester F., and Fink. 3,067,601.
Audesse, Emery G. 3,063,778.
Ayres, Wesley P., Melchor, and Vartanian. 3,059,108.
Baird, Donald H., and Dymon. 3,034,986.
Baird, Donald H., Dymon, and Natansohn. 3,030,307.
Barre, Wade E., and Clarkson. 3,018,575.
Barre, Wade E., Jr., and Morgan. 3,018,462.
Barrett, George T., and Crystal. 3,037,189.
Baskin, Paul. 3,069,787.
Bates, Grayson F., and De Simone. 3,017,549.
Bennett, Sedgwick R. 3,060,710.
Bennett, Sedgwick R., and Mertz. 3,058,499.
Bienvenue, Roland L., Stacey, and Swasey. 3,063,474.
Bloom, Herbert J. 3,051,329.
Bouchard, George H. 3,070,722.
Bowerman, Edwin R., Jr. 3,059,144.
Bowes, Robert J., Jr., and Peacock. 3,024,184.
Brand, Harry R., and Schefer. 3,028,326.
Briskin, Herbert B. 3,046,548.
Broadbent, Bernard G., and Hemphill. 3,019,558.
Brouse, David Y., and Desauniers. 3,045,460.
Burdick, Glen A. 3,024,385.
Burdick, Glen A. 3,043,975.
Burdick, Glen A., and Krawitz. 3,024,380.
Clarkson, Jack B. 3,049,689.
Clukey, Rodney W. 3,032,191.
Cohen, Gene, and Tobin. 3,060,656.
Connors, Robert J. 3,039,057.
Crabtree, Lloyd O. 3,027,820.
Crosby, Alton L., and Lewis. 3,034,663.
Crosby, Alton L., and Roeber. 3,016,124.
Cross, Donald J., and Scanlon. 3,022,674.
Davis, Joseph E., and Schiess. 3,052,752.
Dayton, David R. Michaud, and Viscosi. 3,069,537.
De Poy, Martin L., II, Pattan, and Lucy. 3,019,431.

Sylvania Electric Products Inc.: *See*—Continued
Dhimos, James A. 3,067,411.
Dick, Herbert K., Kulberg, and Swasey. 3,036,719.
Di Lorenzo, Bernard A., and Anderson. 3,027,465.
Dolan, Arthur W. 3,049,482.
Drake, Oscar A., and Smithgall. 3,016,471.
Drake, Robert W., and Kleinfeiter. 3,051,369.
Dwinell, Dwight J., and Chadderton. 3,036,405.
Engeman, Leonard A., and Rupert. 3,044,352.
Esselstyn, James O. 3,050,841.
Feinstein, Lester, and Weiss. 3,041,493.
Fink, William C., and Painter. 3,063,277.
Fischman, Martin. 3,035,205.
Fischman, Martin. 3,059,141.
Fischman, Martin. 3,070,756.
Fischman, Martin, and Geller. 3,038,128.
Gannoe, Thomas E. 3,066,397.
Gartner, Stanley J. 3,064,986.
Gartner, Stanley J. 3,069,749.
Gartner, Stanley J., and Regelman. 3,023,880.
Gnau, Lewis H. 3,037,923.
Goldberg, Paul, and Solomon. 3,050,655.
Green, James H., Jr., and Gordon. 3,069,657.
Grimone, Frank H., and Kohler. 3,064,692.
Gungle, Warren C., and Waymouth. 3,052,813.
Gungle, Warren C., and Waymouth. 3,067,351.
Hannon, Robert J. 3,069,636.
Harrison, Richard I. 3,038,100.
Hasselman, Herbert P. 3,018,803.
Heermans, Thomas W. 3,061,223.
Hees, George W. 3,019,360.
Helda, Robert W., and Lehner. 3,051,474.
Helda, Robert W., Lehner, and Walker. 3,015,881.
Herbert, Harold W., and Walsh. 3,070,724.
Heslop, Moylen D. 3,067,606.
Hill, Robert M. 3,023,380.
Horrigan, John. 3,047,770.
Humphrey, Watts S., Jr., and Ashley. 3,058,096.
Hunt, Robert E. 3,015,421.
Hunt, Robert E., Ingraham, and Pietenpol. 3,066,053.
Ingraham, Robert C. 3,049,437.
Ingraham, Robert C., and Thomas. 3,065,525.
Johnston, Robert W., and Hall. 3,053,016.
Judy, Harold A. 3,017,506.
Kelly, De Loy H., and Van den Broek. 3,036,505.
Kerstetter, Donald R. 3,052,015.
Kerstetter, Donald R. 3,069,893.
Kerstetter, Donald R., and Schwender. 3,028,518.
Koury, Frederic. 3,059,118.
Kusko, Alexander. 3,308,113.
Lambert, Robert L., and McKeirnan. 3,017,281.
Lambert, Robert L., and McKeirnan. 3,017,284.
Lamberty, Bernard J. 3,050,730.
Lawson, Bert E. A. 3,057,042.
Lawson, Bert E. A. 3,061,251.
Lempicki, Alexander, 3,059,115.
Lewis, Floyd V. 3,019,391.
Lincoln, Milan L. 3,049,647.
Lind, Orbie E., Jr., and Hillegonds. 3,023,682.
Livingston, Donald C. 3,054,929.
MacInnis, Martin B., and Tulk. 3,055,741.
Mager, Eric L. 3,043,978.
Many, Abraham, and Avidanik. 3,039,056.
McKeirnan, William R., and Schwender. 3,028,288.
Miles, John R. 3,036,498.
Minden, Henry T. 3,038,241.
Mooney, Richard W. 3,063,946.
Mooney, Richard W., and Shaffer. 3,043,781.
Morrison, George H., and Palilla. 3,031,415.
Morrison, George H., and Palilla. 3,031,416.
Oliver, Chester H., Jr., and Zack. 3,068,435.
O'Neill, George D. 3,038,098.
Palmer, William F. 3,066,241.
Pasco, Richard J. 3,066,266.
Pasco, Richard J. 3,066,240.
Peek, Sandford C., Jr., and Hay. 3,070,723.
Pester, W Bruce. 3,049,971.
Peters, Charles J. 3,056,906.
Peterson, Carl L. 3,064,157.
Petts, Ronald G., and Swartz. 3,067,873.
Pifer, Marion J. 3,051,952.
Quirk, Robert F. 3,055,767.
Rau, Robert F. 3,015,798.
Ray, John G. 3,043,983.
Roeber, Henry W. 3,032,208.
Rychlewski, Thaddeus V. 3,025,161.
Saad, Theodore S. 3,028,560.
Shaffer, Paul C., Stratton, and Zidar. 3,034,778.
Shappell, Stanley C. 3,045,805.
Sheinhertz, Irving, and Zombrow. 3,050,613.
Sibley, Robert C. 3,046,446.
Sibley, Robert C. 3,069,595.
Smith, James M. 3,033,241.
Snyder, Verne D. 3,034,338.
Soper, Ralph B. 3,031,363.
Stone, Elmer O. 3,028,544.
Stone, Elmer O., and Kuryla. 3,036,238.
Stoops, Sherman L., and Bennett. 3,056,890.
Swasey, Samuel E., Bienvenue, and Dwinell. 3,069,583.
Swasey, Samuel E., Wallace, and Stacey. 3,063,130.
Terzian, John. 3,061,192.
Thomas, Ralph B. 3,068,555.

Sylvania Electric Products Inc.: *See*—Continued
Thomsen, Max. 3,027,451.
Thomsen, Max M., and Johnson. 3,069,541.
Wasserman, Moe. 3,050,420.
Wasserman, Moe. 3,059,132.
Wasserman, Moe. 3,070,701.
Waymouth, John F., Jr. 3,069,580.
Wheeler, Gershon J. 3,070,760.
Wickersham, Arthur F., Jr. 3,056,960.
Wilson, Richard J. 3,031,940.
Winslow, Paul H. 3,046,415.
Wood, Robert M. 3,066,249.
Woods, William C. 3,015,394.
Wroblewski, Theodore, and Zack. 3,068,433.
Yando, Stephen. 3,035,200.
Zack, Albert. 3,067,497.
Zambrow, John L., and Megeff. 3,020,222.
Zwald, Henry J. 3,051,354.
Sylvania-Thorn Colour Television Laboratories Ltd.: *See*—
Fougere, Guy L., and Brendling. 3,030,590.
Jesty, Leslie C. 3,059,145.
Justice, James W. H. 3,030,439.
Justice, James W. H., and Graham. 3,067,360.
Oxenham, John K. 3,018,405.
Sylvester, Arthur D.: *See*—
Singleton, Franklin J., and Sylvester. 3,024,154.
Sylvester & Co.: *See*—
Sylvester, George R. 3,065,032.
Sylvester, David, and P. E. Sweeney, to Aircraft Armaments, Inc. Time delay mechanism for machine gun. 3,039,365, 6–19–62, Cl. 89—130.
Sylvester, Edmund Q. Methods and apparatus for casting metal. 3,032,841, 5–8–62, Cl. 22—69.
Sylvester, George R., to Sylvester & Co. Feed device for finely divided materials. 3,065,032, 11–20–62, Cl. 302—56.
Sylvester, Gordon C., F. J. Freese, and R. W. Krogstad, to Carnes Corp. Modular air diffuser. 3,065,685, 11–27–62, Cl. 98—40.
Sylvester, John D., and J. D. Keenan, Jr., to Amsco Packaging Machinery, Inc. Heat-sealing machine for bags, provided with bag locating means. 3,019,583, 2–6–62, Cl. 53—373.
Sylvester, John D., and E. E. Messmer, to Amsco Packaging Machinery, Inc. Fused-together unit of stacked articles. 3,021,947, 2–20–62, Cl. 206—57.
Sylvester, Louis J.: *See*—
Brinatl, William, and Sylvester. 3,070,372.
Sylvester, Paul W. Parting swivel joint. 3,020,084, 2–6–62, Cl. 296—51.
Sylvester, Rowland L.: *See*—
Arnold, Delevan J., and Sylvester. 3,025,986.
Sylvester, Rowland L., and G. N. Romine, to Rack Specialists, Inc. Storage rack structure. 3,038,613, 6–12–62, Cl. 211—162.
Symbaluk, Dave. Safety bather. 3,031,229, 4–24–62, Cl. 297—390.
Symer, Donald G.: *See*—
Cope, Geoffrey W., and Symer. 3,017,038.
Symes, Richard T.: *See*—
Burner, Andre H., and Symes. 3,037,445.
Symes, William F., to Monsanto Chemical Co. Processes for preparing sodium and potassium dichloroisocyanurate. 3,035,056, 5–15–62, Cl. 260—248.
Symes, William F., and N. S. Hadzekyriakides, to Monsanto Chemical Co. Potassium dichloroisocyanurate process. 3,035,054, 5–15–62, Cl. 260—248.
Symes, William F., and N. S. Hadzekyriakides, to Monsanto Chemical Co. Dichloroisocyanurate process and products. 3,035,057, 5–15–62, Cl. 260—248.
Symes, William F., and L. E. Loveless, to Monsanto Chemical Co. Gradually available fertilizer comprising glycoluril. 3,061,423, 10–30–62, Cl. 71—28.
Symington, Robert: *See*—
Chick, James E., and Symington. 3,048,273.
Symington Wayne Corp.: *See*—
Blattner, Emil H. 3,015,525.
Blattner, Emil H. 3,024,742.
Blattner, Emil H. 3,042,224.
Blattner, Emil H., and Winther. 3,015,285.
Cope, Geoffrey W. 3,058,819.
Cope, Geoffrey W. 3,045,838.
Cope, Geoffrey W. 3,058,751.
Cope, Geoffrey W. 3,061,114.
Cope, Geoffrey W. 3,062,595.
Cope, Geoffrey W., and Martin. 3,021,017.
Cope, Geoffrey W., and Symer. 3,017,038.
George, Stephen. 3,047,220.
Hosbein, Hugh W. 3,018,495.
Hosbein, Hugh W. 3,018,496.
Wieslander, Frederick W., Copony, Davidson, Alexander, and Smith. 3,030,015.
Symons Clamp & Mfg. Co.: *See*—
Schimmel, Vernon R. 3,067,479.
Symons, Loren G., to Nordberg Mfg. Co. Hydraulic bowl release for cone crushers. 3,019,994, 2–6–62, Cl. 241—290.
Symons, Loren G., to Nordberg Mfg. Co. Rotating and gyrating ball mill. 3,042,322, 7–3–62, Cl. 241—175.
Symons Mfg. Co.: *See*—
Bowden, George F., and Ruth. 3,052,008.
Synchro Machine Co.: *See*—
Bruestle, Carl O. 3,017,017.

Syncromatic Corp.: *See*—
Jaye, Richard C., and Hirtz. 3,064,639.
Syntex Corp.: *See*—
Batres, Enrique, and Ringold. 3,067,216.
Bowers, Albert. 3,051,744.
Bowers, Albert. 3,065,228.
Bowers, Albert, Casas-Campillo, Zderic, and Djerassi. 3,067,212.
Bowers, Albert, and Edwards. 3,056,814.
Bowers, Albert, Edwards, and Orr. 3,051,730.
Bowers, Albert, Edwards, and Orr. 3,055,916.
Bowers, Albert, Edwards, and Orr. 3,055,920.
Bowers, Albert, Edwards, and Orr. 3,057,883.
Bowers, Albert, Edwards, and Orr. 3,062,849.
Bowers, Albert, and Orr. 3,053,859.
Bowers, Albert, and Orr. 3,053,862.
Bowers, Albert, and Ringold. 3,050,518.
Bowers, Albert, and Ringold. 3,050,534.
Bowers, Albert, and Ringold. 3,054,809.
Crabbe, Pierre. 3,066,136.
Djerassi, Carl, and Bowers. 3,051,703.
Edwards, John. 3,066,138.
Halpern, Otto. 3,047,570.
Iriarte, Jose, Djerassi, and Kincl. 3,053,839.
Kincl, Fred A. 3,056,810.
Knox, Lawrence H. 3,062,843.
Knox, Lawrence H. 3,064,011.
Knox, Lawrence H. 3,066,155.
Mills, John S. 3,053,858.
Mills, John S., Ringold, and Djerassi. 3,062,845.
Ringold, Howard J. 3,059,019.
Ringold, Howard J., and Djerassi. 3,067,213.
Ringold, Howard J., and Mancera. 3,067,219.
Ringold, Howard J., Mancera, and Rosenkranz. 3,056,-815.
Ringold, Howard J., Sondheimer, Rosenkranz, Strok, and Djerassi. 3,065,226.
Sondheimer, Franz, and Rosenkranz. 3,055,915.
Zderic, John A. 3,063,984.
Zderic, John A. 3,063,985.
Zderic, John A. 3,068,244.
Zderic, John A., and Crabbe. 3,051,733.
Zderic, John A., and Ringold. 3,069,413.
Zderic, John A., Ringold, and Djerassi. 3,052,676.
Syntex S.A.: *See*—
Bowers, Albert, and Edwards. 3,035,068.
Bowers, Albert, and Edwards. 3,036,098.
Bowers, Albert, and Edwards. 3,038,898.
Bowers, Albert, and Edwards. 3,056,814.
Bowers, Albert, and Ringold. 3,019,240.
Bowers, Albert, and Ringold. 3,037,976.
Bowers, Albert, and Ringold. 3,046,285.
Djerassi, Carl. 3,057,858.
Djerassi, Carl, and Ringold. 3,027,368.
Djerassi, Carl, and Rosenkranz. 3,026,338.
Djerassi, Carl, Rosenkranz, Kaufmann, Pataki, and Romo. 3,020,294.
Djerassi, Carl, and Zderic. 3,026,320.
Holton, Percy G. 3,035,066.
Holton, Percy G. 3,036,097.
Kincl, Fred A. 3,029,261.
Orr, James C., and Bowers. 3,032,551.
Ringold, Howard J., and Bowers. 3,033,862.
Ringold, Howard J., and Bowers. 3,036,068.
Ringold, Howard J., and Bowers. 3,041,359.
Ringold, Howard J., Bowers, and Rosenkranz. 3,028,401.
Ringold, Howard J., Bowers, and Rosenkranz. 3,035,067.
Ringold, Howard J., Mancera, Rosenkranz, and Edwards. 3,019,239.
Ringold, Howard J., Mancera, Rosenkranz, and Edwards. 3,036,096.
Ringold, Howard J., and Rosenkranz. 3,018,285.
Ringold, Howard J., Sondheimer, and Rosenkranz. 3,032,552.
Ringold, Howard J., Zderic, Batres, and Rosenkranz. 3,017,419.
Ringold, Howard J., Zderic, Djerassi, and Bowers. 3,026,317.
Rosenkranz, George. 3,019,246.
Rosenkranz, George, and Djerassi. 3,018,284.
Syntron Co.: *See*—
Gilbert, Walter J. 3,016,251.
Gilbert, Walter J., Sr. 3,035,842.
Philipovic, Joachim W., and Jones. 3,031,060.
Spurlin, William V. 3,053,380.
Syracuse Stamping Co., Inc., The: *See*—
Biedinger, Henry J., and Kuckhoff. 3,065,838.
Syracuse Supply Co.: *See*—
Forsthoff, William E., and O'Neill. 3,023,878.
Syracuse University: *See*—
Zwislocki, Jozef J. 3,047,089.
Syrene, Elmer L. J.: *See*—
Benjamin, Milton L., and Syrene. 3,049,033.
Benjamin, Milton L., and Syrene. 3,065,580.
Syrovy, Gerald H., to General Motors Corp. Engine accessory installation. 3,025,672, 3–20–62, Cl. 60—39.66.
Syrutowicz, Joseph: *See*—
Kowalik, John J., Syrutowicz, and Johnson. 3,066,468.
System Analyzer Corp.: *See*—
Ronk, Leroy B. 3,032,627.
Systems Engineering Laboratories, Inc.: *See*—
Searcy, John H. 3,070,663.
Systems Engineering & Mfg. Co., Inc.: *See*—
McIver, Donald J., and Scruby. 3,069,205.
Systron-Donner Corp.: *See*—
Bently, Donald E., and Price. 3,057,195.
Gahn, Edwin H. 3,019,662.
Syverson, George A. Lockable swivel pipe coupling. 3,064,-998, 11–20–62 Cl 285—101.
Sywulka, Victor S.: *See*—
Defandorf, John L., Hackbarth, Kraus, and Swywulka. 3,066,244.
Szabady, Jeno: *See*—
Demeter, Jozsef, and Szabady. 3,043,738.
Szabo, Ferdinand W. Hinge pin hook. 3,044,630, 7–17–62, Cl. 211—86.
Szabo, Gyozo and P. Method of and apparatus for the manufacture of brushes. 3,026,146, 3–20–62, Cl. 300—1.
Szabo, Piroska: *See*—
Szabo, Gyozo and P. 3,026,146.
Szabo, William E., D. A. Collings, and J. A. Cortelli, to The Clark Controller Co. Magnetic brakes. 3,032,146, 5–1–62, Cl. 188—171.
Szachnitowski, Stanley A., to General Dynamics Corp. Method of flash cooling vehicle cargo spaces. 3,063,258, 11–13–62, Cl. 62—309.
Szafran, Dmytro, to Precise Products Corp. Automatic jig grinding attachment. 3,035,376, 5–22–62, Cl. 51—90.
Szajna, John L., to Continental Can Co., Inc. Hollow plastic article molding machine. 3,020,595, 2–13–62, Cl. 18—42.
Szumiszló, Istvan, to Societa Italiana Telecommunicazioni Siemens S.p.A. Motor-compressor valve specifically apt for use in a refrigeration system. 3,037,523, 6–5–62, Cl. 137—514.
Szantó, Ferenc: *See*—
Csonka, Lajos, Horkay, Szantó, Szerecz, and Gönczy. 3,042,539.
Szasz, Katherine: *See*—
Szasz, Nandor. 3,027,101.
Szasz, Nandor, deceased, by K. Szasz, special administratrix, to General Mills, Inc. Milling apparatus. 3,027,101, 3–27–62, Cl. 241—78.
Szatkowski, Richard R.: *See*—
Baugh, Edwin D., and Szatkowski. 3,056,535.
Keinanen, Henry, and Szatkowski. 3,068,344.
Szawlowski, Theodore H.: *See*—
Joo, Louis A., Kramer, and Szawlowski. 3,056,773.
Szczepanski, Harry. Vegetable peeler. 3,026,612, 3–27–62, Cl. 30—123.
Szczesniak, Alina S., to General Foods Corp. Soufflé mix. 3,043,700, 7–10–62, Cl. 99—92.
Szegho, Constantin S., to The Rauland Corp. Cathode-ray tube. Re. 25,127, 2–20–62, Cl. 315—16.
Szegho, Constantin S., to Zenith Radio Corp. Image-reproducing device. 3,028,521, 4–3–62, Cl. 315—13.
Székely, László, to Jarmufejlesztesi Intezet. Control mechanism for gear boxes of motor vehicles. 3,015,968, 1–9–62, Cl. 74—477.
Szemplak, Jerome C., R. M. Ekstrom, W. W. Von Uffel, Jr., G. L. Horley, and B. F. Wood, Jr., to United States of America, Army. Supine bed. 3,052,965, 9–4–62, Cl. 5—68.
Szemzo, Jean. Shearing head of mechanical shaver. 3,041,-722, 7–3–62, Cl. 30—43.
Szent-Gyorgyi, Albert. Process for the treatment of water. 3,026,262, 3–20–62, Cl. 99—155.
Szepan, Henry F. Method and apparatus for screening pulp. 3,034,650, 5–15–62, Cl. 209—273.
Szerda, Frank. Safety aircraft. 3,063,659, 11–13–62, Cl. 244—46.
Szerecz, János: *See*—
Csonka, Lajos, Horkay, Szantó, Szerecz, and Gönczy. 3,042,539.
Szerszynski, Janusz: *See*—
Berriil, William H., Szerszynski, and Waite. 3,056,165.
Sziklai, George C.: *See*—
Zworykin, Vladimir K., and Sziklai. 3,038,154.
Sziklai, George C., to Westinghouse Electric Corp. Electron beam device. 3,020,438, 2–6–62, Cl. 315—1.
Szilvay, Géza: *See*—
Pápa, Alfréd, Szilvay, and Zombory. 3,044,455.
Szita, Jenö, to Bayer Aktiengesellschaft, Farbenfabriken. Process for the production of polyvinyl hydrogen sulphates. 3,047,556, 7–31–62, Cl. 260—91.3.
Szlatinay, Leslie, to Monsanto Chemical Co. Emulsion purification of mercaptobenzothiazole. 3,030,373, 4–17–62, Cl. 260—306.
Szlatinay, Leslie, to Monsanto Chemical Co. Manufacture of mercaptobenzothiazole. 3,031,073, 4–24–62, Cl. 260—306.
Szmuszkovicz, Jacob, to The Upjohn Co. Oxalic acid hydrazides. 3,022,345, 2–20–62, Cl. 260—561.
Szmuszkovicz, Jacob, to The Upjohn Co. 2-(benzylcarbamyl)-ethyl substituted oxalic acid hydrazide. 3,027,408, 3–27–62, Cl. 260—562.
Szmuszkovicz, Jacob, to The Upjohn Co. Novel 1-(3-indoyl)1, 2-alkanediols and substituted hydroxymethyl 3-indolyl ketones. 3,028,393, 4–3–62, Cl. 260—319.
Szmuszkovicz, Jacob, to The Upjohn Co. 3-indolyl-2-aminoethylketones and their preparation. 3,037,991, 6–5–63, Cl. 260—319.
Szmuszkovicz, Jacob, to The Upjohn Co. 3-(3-substituted amino-1-propenyl) indoles. 3,043,849, 7–10–62, Cl. 260—319.

Szmuszkovicz, Jacob, to The Upjohn Co. Improved process for the preparation of 3-(2-ethyl-2-nitrovinyl) indole. 3,050,530, 8–21–62, Cl. 260—319.

Szmuszkovicz, Jacob, and W. C. Anthony, to The Upjohn Co. Organic compounds. 3,022,313, 2–20–62, Cl. 260—319.

Szmuszkovicz, Jacob, and W. C. Anthony, to The Upjohn Co. Novel 2-(3-indolyl)-1,4-butanediols and 2-(3-indolyl)-1,4-butanediol dicarbamates. 3,023,221, 2–27–62, Cl. 260—319.

Szochet, Abraham. Method of planting trees. 3,057,116, 10–9–62, Cl. 47—58.

Szorady, Julius P.: *See*—
Wiskoff, Arthur E., and Szorady. 3,044,120.
Wiskoff, Arthur E., and Szorady. 3,044,121.

Szpakowski, Robert J.: *See*—
Perkins, Alfred J., and Szpakowski. 3,044,407.

Szpila, Jerome S., to H. K. Porter Co. Inc. Plastic pipe extrusion head. 3,024,494, 3–13–62, Cl. 18—13.

Szpilfogel, Stefan A.: *See*—
De Jongh, Hendrik P., and Szpilfogel. 3,064,014.

Szpilfogel, Stefan A., W. J. Mijs, J. De Flines, and W. F. van der Waard, to Organon, N.V., and Koninklijke Nederlandsche Gisten Spiritusfabriek N.V., de. New 16-oxygenated steroids. 3,031,445, 4–24–62, Cl. 260—239.55.

Szuba, Walter D., to The Singer Mfg. Co. Needle clamps for sewing machines. 3,016,041, 1–9–62, Cl. 112—226.

Szuba, Walter D., and G. L. Zilg, to The Singer Mfg. Co. Hinge for sewing machine shuttles. 3,026,836, 3–27–62, Cl. 112—232.

Szuba, Walter D., and J. M. Benzing, to The Singer Mfg. Co. Shuttle mechanism for sewing machines. 3,029,762, 4–17–62, Cl. 112—192.

Szumski, Stephen A., to American Cyanamid Co. Method of producing streptokinase and streptodornase. 3,046,200, 7–24–62, Cl. 195—68.

Szura, Daniel T.: *See*—
Kienle, Robert N., and Szura. 3,042,545.

Szwarc, Michael M., to The Dow Chemical Co. Block copolymers of alkenyl aromatic hydrocarbons and alkylene oxides. 3,050,511, 8–21–62, Cl. 260—93.5.

Szwarc, Michael M., to The Dow Chemical Co. Vinyl aromatic polymers having reactive end groups and process for making the same. 3,070,579, 12–25–62, Cl. 260—79.

Szwarguiski, Alex N.: *See*—
Carlson, Harold A., and Szwarguiski. 3,059,898.

Szydlowski, Joseph, to Bertin & Cie, Societe. Turbo-machines. 3,032,313, 5–1–62, Cl. 253—39.

Szydlowski, Joseph. Fuel feed system for turbojet engines. 3,062,007, 11–6–62, Cl. 60—39.28.

Szymczak, Eugene B., to The Welch Scientific Co. Light probe for photographic use. 3,067,649, 12–11–62, Cl. 88—23.

Szymczak, Eugene B., and C. R. Williams, to The Welch Scientific Co. Removable scale meter. 3,050,682, 8–21–62, Cl. 324—115.

TKB-Produkter Fabriksaktiebolag: *See*—
Hellström, Börje T., and Lindblad. 3,067,409.

TKM Electric Corp.: *See*—
Kober, William. 3,059,648.

T.M.M. (Research) Ltd.: *See*—
Barlow, Eric. 3,067,854.
Clayton, James W. B. 3,032,962.
Westall, Arthur, and Smith. 3,035,402.
Westall, Arthur, and Smith. 3,065,593.

TRG, Inc.: *See*—
Daly, Richard T. 3,021,448.
Etter, Thomas L. 3,057,375.
Etter, Thomas L. 3,057,551.
Kay, Alan F. 3,039,100.

T & S Equipment Co.: *See*—
Le Clear, Robert L., Sleeper, M. B. and R. 3,021,545.

Tab Products Co.: *See*—
Dethardt, Richard C., and Ribbens. 3,033,378.
Foote, Francis S., Jr., and Le Claire. 3,052,363.
Ribbens, Jacob J., and Dethardt. 3,031,088.
Ribbens, Jacob J., and Dethardt. 3,033,634.
Ribbens, Jacob J., and Dethardt. 3,067,882.
Ribbens, Jacob J., Leete, and Foote. 3,022,595.

Taback, Leonard, to United States of America, Commerce. Function generator for generating a function of two independent variables. 3,025,000, 3–13–62, Cl. 235—197.

Tabbert Mfg. Co.: *See*—
Tabbert, Paul C. 3,026,542.
Tabbert, Paul C. 3,050,745.

Tabbert, Paul C., to Tabbert Mfg. Co. Hospital stretcher. 3,026,542, 3–27–62, Cl. 5—86.

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Taber, David, to General Aniline & Film Corp. Halides as chain initators for the polymerization of lactams. 3,061,593, 10–30–62, Cl. 260—78.

Taber Instrument Corp.: *See*—
Dumas, Roger E. 3,045,490.
Dumas, Roger E. 3,057,202.
Greatbatch, Wilson. 3,025,472.
Greatbatch, Wilson. 3,036,274.

Taber, Ralph F. Force measuring instrument. 3,024,649, 3–13–62, Cl. 73—141.

Taber, Ralph F. Compression type force transducer. 3,064,472, 11–20–62, Cl. 73—141.

Taber, Russell E. Shade and blind device. 3,065,785, 11–27–62, Cl. 160—81.

Tabet, Michael A. Electromagnetic liquid contact relay. 3,059,077, 10–16–62, Cl. 200—112.

Tabikh, Ali A., to California Portland Cement Co. X-ray fluorescent analysis sample presenting means. 3,027,456, 3–27–62, Cl. 250—51.5.

Tabios, Teodolfo U.: *See*—
Horie, Harry T., and Tabios. 3,019,494.

Tabisz, Sylvester C., to Westinghouse Electric Corp. Flip-flop utilizing diode coupling which disconnects input voltages after transition between stable states. 3,069,561, 12–18–62, Cl. 307—88.5.

Tabke, Robert S.: *See*—
Fahey, Michael D., Tabke, and Rickey. 3,037,902.

Tabler, Donald C.: *See*—
Morgan, Lyman W., and Tabler. 3,050,469.

Tabler, Ralph E.: *See*—
Atanasoff, John V. and T. B., Beecher, Long, Tabler, Macrum, and Selzer. 3,033,366.

Tabor, Bryan E.: *See*—
Jeffreys, Roy A., and Tabor. 3,034,894.
Jeffreys, Roy A., and Tabor. 3,057,723.
Jeffreys, Roy A., Tabor, and Burness. 3,062,652.

Tabor, Harry Z., and L. Bronicki, to The State of Israel. Vapor turbines. 3,040,528, 6–26–62, Cl. 60—36.

Taborsky, Stanley, to Martin-Marietta Corp. Proximity limit position detector. 3,017,621, 1–16–62, Cl. 340—282.

Tabowsky, Walter: *See*—
Devine, Joseph A., and Tabowsky. 3,038,046.

Tabron, Alfred F.: *See*—
Lucas, Stephen J., and Tabron. 3,052,502.
Lucas, Stephen J., and Tabron. 3,056,633.

Taccone Corp.: *See*—
Taccone, Russell W. 3,041,685.
Taccone, Russell W. 3,063,107.

Taccone Pneumatic Foundry Equipment Corp.: *See*—
Taccone, Russell W. 3,030,676.

Taccone, Russell W., to Taccone Pneumatic Foundry Equipment Corp. Molding machine having an improved head. 3,030,676, 4–24–62, Cl. 22—42.

Taccone, Russell W., to Taccone Corp. Diaphragm molding machine. 3,041,685, 7–3–62, Cl. 22—42.

Taccone, Russell W., to Taccone Corp. Mold for casting. 3,063,107, 11–13–62, Cl. 22—42.

Tache, Arthur J.: *See*—
Broeder, Raymond L., Tache, and Kamradt. 3,038,522.

Tack, William L., to Clevite Corp. Magnetic loading method and apparatus. 3,061,919, 11–6–62, Cl. 29—428.

Tackley, K.G.: *See*—
Haneklaus, Karl. 3,044,280.

Tackett, Thomas B., to International Business Machines Corp. Printing device. 3,027,988, 4–3–62, Cl. 197—52.

Taco Heaters, Inc.: *See*—
Schoerner, Rudolph T. 3,019,986.

Taddeo, Frank V., to Hughes Aircraft Co. Power supply. 3,040,238, 6–19–62, Cl. 323—22.

Tadeusz, Budzich: *See*—
Marette, Ralph T., and Tadeusz. 3,054,261.

Tadewald, Albert O., to The Trane Co. Heat exchange fin element. 3,016,921, 1–16–62, Cl. 138—38.

Taff, Harry J., to Kwik-Kover Mfg. Co. Garment hanger cover. 3,027,056, 3–27–62, Cl. 223—98.

Taft, Hugh M., to Ex-Cell-O Corp. Magnetic data storage device. 3,063,039, 11–6–62, Cl. 340—174.1.

Taft, Patrick M. Cutting apparatus. 3,060,779, 10–30–62, Cl. 83—582.

Taga, Yoshikazu. Leakage preventing welding connection. 3,052,452, 9–4–62, Cl. 257—224.

Tagawa, Yasuo: *See*—
Tanaka, Tetsuro, Tagawa, and Kuyama. 3,028,564.

Tager, Milton E., G. H. Browne, and J. A. McCoig, Sr., to Cocker Machine & Foundry Co. Apparatus and method for setting yarn and for crimping and setting yarn. 3,044,145, 7–17–62, Cl. 28—1.

Taggart, Everett R., and W. T. Palmer, to Diamond Laboratories. Pellet magazine. 3,025,953, 3–20–62, Cl. 206—42.

Taggart, John J., to Pioneer Mail Chute Corp. Letter drop with undesirable material ejector. 3,059,841, 10–23–62, Cl. 232—45.

Taggart, Reginald, to Specialty Valves Ltd. Discharge control valve. 3,060,965, 10–30–62, Cl. 137—599.2.

Tagliaferri, Aldo. Three-phase induction furnace. 3,053,921, 9–11–62, Cl. 13—28.

Taibi, Noe. Snap-in box for electric wiring. 3,052,369, 9–4–62, Cl. 220—3.6.

Taiclet, Paul W., to Shell Oil Co. Valve positioner. 3,040,714, 6–26–62, Cl. 121—41.

Tailer, Peter L. High velocity accelerator for projectiles. 3,056,336, 10–2–62, Cl. 89—8.

Tailleur, Andre M., to International Business Machines Corp. High speed card punch. 3,037,690, 6–5–62, Cl. 234—128.

Taillie, Gordon P.: *See*—
Rutkus, John, Jr., and Taillie. 3,062,538.

Tailor, John P. Gas-liquid contact process and apparatus. 3,050,919, 8–28–62, Cl. 55—90.

Tailor, John P. Method and apparatus for solids contacting. 3,052,990, 9–11–62, Cl. 34—57.

Taisei Optical Industry Co., Ltd.: *See*—
Suzuki, Yoshiaki. 3,055,283.

Taisho Pharmaceutical Co., Ltd.: *See*—
Tanaka, Ichiro, Yanagisawa, Sawada, Misawa, and Nakayoshi. 3,063,911.

Tait, Charles W. : *See*—
Henry, Ronald A., and Tait. 3,070,473.
Tait, John B., and L. C. Kaye, to International Business Machines Corp. Apparatus for increasing the storage capacity of a magnetic drum. 3,038,148, 6–5–62, Cl. 340—174.1.
Tait, John H. K. : *See*—
Waite, William G., Varvill, Palmer, and Tait. 3,069,336.
Tait Mfg. Co., The : *See*—
Hansley, George S. 3,066,696.
Lung, Kenneth R. 3,035,522.
Lung, Kenneth R. 3,070,026.
Tait, Robert A., to E. I. du Pont de Nemours and Co. Spinneret assembly. 3,050,774, 8–28–62, Cl. 18—8.
Taiz, Georgianna S. : *See*—
Taiz, Sidney. 3,027,013.
Taiz, Sidney, to G. S. Taiz. Money saver. 3,027,013, 3–27–62, Cl. 211—43.
Tajbl, Franz, to Gesellschaft für Linde's Eismaschinen Aktiengesellschaft. Current supply system for arc welding. 3,058,047, 10–9–62, Cl. 321—18.
Takacs, Andrew S., and H. J. Beck, to Techniform, Inc. Process for molding a foamable shell onto a sponge base. 3,026,574, 3–27–62, Cl. 18—59.
Takacs, John, Jr., to The American Ship Building Co. Clamping device. 3,036,851, 5–29–62, Cl. 292—256.5.
Takada, Koji, to Toyo Kinzokukagaku Kabushikikaisha. Process for the electro-plating of zinc-titanium-zirconium alloy. 3,070,521, 12–25–62, Cl. 204—43.
Takada, Masaru : *See*—
Hirano, Katsuaki, Takada, Kawamura, Suzumura, and Nagano. 3,061,884.
Takada, Mitsuru, to Sumitomo Electric Industries, Ltd. Pressure type oil feeding tank for oil filled cables and oil filled electrical machines and appliances. 3,019,280, 1–30–62, C. 174—12.
Takagi, Hiromu : *See*—
Ito, Akira, Hamanaka, Takagi, Wada, and Kawada. 3,064,000.
Takagi, Kiyoshi : *See*—
Hiratsuka, Matsumura, Matsuda, Takagi, Kassawara, Oono, Abe, and Ozawa. 3,038,786.
Takagi, Tatsuya. Oil vibration-damper for vehicles. 3,022,-061, 2–20–62, Cl. 267—8.
Takagishi, Eijiro. Resistance networks with thermistors. 3,028,756, 4–10–62, Cl. 73—362.
Takahashi, Akira : *See*—
Yamashita, Hiromu, and Takahashi. 3,030,573.
Takahashi, Hidetoshi, and H. Yamada, to Fuji Tsushinki Seizo Kabushiki Kaisha. Code conversion circuitry. 3,068,464, 12–11–62, Cl. 340—347.
Takahashi, Kikuo. Surveying apparatus for radioactive ores. 3,028,493, 4–3–62, Cl. 250—71.5.
Takahashi, Masao, S. Imaoka, and O. Kubouchi, to Tokyo Shibaura Electric Co., Ltd. Automatic assembling apparatus for assembling clean semiconductors in clean shells. 3,046,651, 7–31–62, Cl. 29—203.
Takahashi, Shinyu, to Nippon Mining Co. Ltd. Froth flotation machine and method. 3,037,626, 6–5–62, Cl. 209—164.
Takahashi, Takeshi, to Sankyo Co., Ltd. Process for the preparation of D-araboascorbic acid. 3,052,609, 9–4–62, Cl. 195—36.
Takahashi, Torizo, K. Ogiu, H. Fujimura, I. Satoda, T. Fukui, and Y. Yamamoto, to Nippon Shinyaku Co., Ltd. N-alkylamido substituted 1,3-benzoxazines. 3,047,573, 7–31–62, Cl. 260—244.
Takai, Unokichi, and T. Ishiyama. Apparatus and method of continuous molding of a thermoplastic sheet having fine pile-like projections. 3,027,595, 4–3–62, Cl. 18—10.
Takaro, Timothy, to United States of America, Army. Blood vessel coupling device. 3,048,177, 8–7–62, Cl. 128—334.
Takasaki, Rinji : *See*—
Tanabe, Katsumi, Hayashi, and Takasaki. 3,061,635.
Takashima, Thomas T. : *See*—
Raffensperger, Stanley P., and Takashima. 3,016,299.
Raffensperger, Stanley P., and Takashima. 3,016,300.
Takats, Zoltan, and C. H. Jacobson, to General Aniline & Film Corp. Camera film feeding, cutting and storing apparatus. 3,018,709, 1–30–62, Cl. 95—31.
Takats, Zoltan, and S. Ondrusek, to General Aniline & Film Corp. Camera shutter mechanism. 3,022,715, 2–27–62, Cl. 95—62.
Takatsuki, Tatsuo : *See*—
Iwata, Minoru, Takatsuki, and Kubota. 3,036,549.
Takayama, Ken'Ichiro : *See*—
Abe, Shigeo, Furuya, Saito, and Takayama. 3,063,910.
Takeda Chemical Industries, Ltd. : *See*—
Sirakawa, Kenzo, Tsujikawa, and Tsuda. 3,041,339.
Takeda, Mikio : *See*—
Fujii, Kiichi, Oda, Arita, Sakai, and Takeda. 3,037,998.
Fujii, Kiichi, Oda, Arita, Sakai, and Takeda. 3,068,281.
Takeda, Motosuke. Clamp for pressing trousers. 3,050,884, 8–28–62, Cl. 38—71.
Takeda Pharmaceutical Industries, Ltd. : *See*—
Isono, Masao, and Abe. 3,056,731.
Miyake, Akira. 3,061,633.
Sirakawa, Kenzo. 3,040,047.
Takeda, Rokuro, Nakanishi, Newa, Uchibayashi, Kusaka, Terumichi, Uchida, Katsumata, Yoshino, and Fujitani. 3,037,915.
Tanabe, Hideo. 3,056,819.
Yurugi, Shojiro, and Fushimi. 3,016,380.
Takeda, Rokuro, I. Nakanishi, H. Nawa, M. Uchibayashi, T. Kusaka, J. Terumichi, M. Uchida, M. Katsumata, K. Yoshino, and H. Fujitani, to Takeda Pharmaceutical Industries Ltd. Method for preparing steroid compounds. 3,037,915, 6–5–62, Cl. 195—51.
Takeda, Yoshito, T. Matsui, and H. Okada, to Ajinomoto Kabushiki Kaisha and Sanraku Distillers Co., Inc. Processes for producing L-glutamic acid from carbohydrates. 3,028,309, 4–3–62, Cl. 195—47.
Takehara, Mitsunori : *See*—
Yamamoto, Ryuichi, Tanaka, and Takehara. 3,031,467.
Takemura, Kazuo H. : *See*—
Loeb, Leopold, Clayton, Koltum, Philips, Segal, and Takemura. 3,054,695.
Segal, Leon, and Takemura. 3,054,696.
Takenouchi, Kuniharu : *See*—
Kawamura, Yurio, Tamuki, Takenouchi, Satani, Sakata, and Hanaoka. 3,039,880.
Taketomi, Bunsaku, to Aichi Kogyo Kabushiki Kaisha. Zigzag embroidering machines. 3,026,832, 3–27–62, Cl. 112—204.
Taketomi, Bunsaku. Fabric rotating device for sewing machines. 3,059,599, 10–23–62, Cl. 112—102.
Takeuchi, Sakae, to The Research Institute for Iron, Steel and Other Metals of the Tohoku University. Method of manufacturing crystallized titanium of high purity and an apparatus for carrying out the method. 3,039,866, 6–19–62, Cl. 75—84.5.
Takewell, Robert B., and F. W. Selfridge, to J. M. Huber Corp. Furnace for carbon black production. 3,026,185, 3–20–62, Cl. 23—259.5.
Takimoto, Hideyo H. : *See*—
Rust, John B., and Takimoto. 3,057,822.
Rust, John B., and Takimoto. 3,061,587.
Talak, John F., to J. L. Case Co. Hydraulic power lift and control device. 3,042,119, 7–3–62, Cl. 172—9.
Talalay, Leon, to The B. F. Goodrich Co. Foam rubber cushioning. 3,028,610, 4–10–62, Cl. 5—355.
Talalay, Leon, to The B. F. Goodrich Co. Process for agglomerating synthetic latices by freezing and thawing the latex. 3,031,427, 4–24–62, Cl. 260—29.7.
Talambiras, Robert P. : *See*—
Gordon, Bernard M., and Talambiras. 3,063,018.
Talamonti, John, to Borg-Warner Corp. Shaft oil seal means with deflector. 3,049,356, 8–14–62, Cl. 286—5.
Talarico, Lawrence J., to Adolph Gottscho, Inc. Ink rollers. 3,066,603, 12–4–62, Cl. 101—367.
Talarico, Rudolph D. Fluid dispensing apparatus. 3,018,023, 1–23–62, Cl. 222—394.
Talas, Sandor : *See*—
Talas, Bela F., and Talas. 3,052,923.
Talbert, Austin G., to Talbert Construction Equipment Co. Mobile crane unit with demountable side frame. 3,023,913, 3–6–62, Cl. 212—145.
Talbert, Austin G., to Talbert Construction Equipment Co. Removable gooseneck drawbar for trailers and the like. 3,041,087, 6–26–62, Cl. 280—425.
Talbert, Austin G., to Talbert Construction Equipment Co. Removable gooseneck drawbar having an adjustable connection with a low-bed trailer. 3,043,609, 7–10–62, Cl. 280—422.
Talbert, Austin G., to Talbert Construction Equipment Co. Mobile crane mounting. 3,056,509, 10–2–62, Cl. 212—38.
Talbert Construction Equipment Co. : *See*—
Talbert, Austin G. 3,023,913.
Talbert, Austin G. 3,041,087.
Talbert, Austin G. 3,043,609.
Talbert, Austin G. 3,056,509.
Talbert, Norwood K., to Spencer Chemical Co. Aquatic herbicidal compositions employing polyolefins as carriers. 3,062,634, 11–6–62, Cl. 71—2.1.
Talbot, Frank A. Engine having variable combustion chamber. 3,059,430, 10–23–62, Cl. 60—39.61.
Talbot, Harry, to C. E. Auz. Device for curling hair and method. 3,057,363, 10–9–62, Cl. 132—7.
Talbot, John S. : *See*—
Garbuny, Max, and Talbot. 3,056,062.
Talbot, Ralph H. : *See*—
Allen, Charles F. H., Talbot, Yudelson, and Smith. 3,047,394.
Talbot, Samuel A. : *See*—
Ferris, John R., Sheldon, Talbot, and Ulrich. 3,057,915.
Talbott, David R., and W. M. Darden. Apparatus for removing matter from the bottom of waterways. 3,019,535, 2–6–62, Cl. 37—78.
Talbott, Eldred A. : *See*—
Maassen, René. 3,023,067.
Talbott, Irl W., and A. R. Hendry. Bumper for loading docks and the like. 3,063,700, 11–13–62, Cl. 267—1.
Talbott, William G., to Borg-Warner Corp. Clutch release assembly. 3,036,682, 5–29–62, Cl. 192—98.
Talboys, Henry H., to Nordberg Mfg. Co. Track lining equipment. 3,050,015, 8–21–62, Cl. 104—2.
Talcott, Horace C., to Automatic Electric Laboratories, Inc. Electronic telephone systems and ringing arrangements therefor. 3,065,307, 11–20–62, Cl. 179—18.
Talcott, Thomas D., to Dow Corning Corp. Silicone rubber of improved handling properties. 3,065,201, 11–20–62, Cl. 260—46.5.
Talge, Foster L. : *See*—
Chappell, William A., and McLean. 3,059,332.
Landry, William J. 3,059,333.

Talge, Henry J.: *See*—
Chappell, William A., and McLean. 3,059,332.
Landry, William J. 3,059,333.
Taller & Cooper, Inc.: *See*—
Hohmann, Albert. 3,050,244.
Talley, Robert E.: *See*—
Learmont, Tom, and Talley. 3,045,844.
Talley, Samuel K., to Shell Oil Co. Asphalt compositions. 3,035,930, 5–22–62, Cl. 106—273.
Tallman, Laurence C.: *See*—
McBean, Douglas M., and Tallman. 3,024,747.
McBean, Douglas M., and Tallman. 3,068,816.
Tallow Research, Inc.: *See*—
Brown, Louise H., and Swidler. 3,065,248.
Tally Register Corp.: *See*—
Levin, Eugene A. 3,064,882.
Levin, Eugene A., and Fender. 3,027,072.
Talmadge, Arthur. Record rack. 3,027,012, 3–27–62, Cl. 211—40.
Talmey, Paul: *See*—
Crehan, William J., Klouse, and Talmey. 3,065,535.
Talmey, Paul, to General American Transportation Corp. Electrical elements. 3,017,532, 1–16–62, Cl. 313—141.
Talmey, Paul, to General American Transportation Corp. Railway refrigerator cars. 3,062,156, 11–6–62, Cl. 105—355.
Talon, Inc.: *See*—
Carlile, Alfred E. 3,041,714.
Carlile, Alfred E., and Vodenichar. 3,038,228.
Godfrey, Milton L., and Vodenichar. 3,038,227.
Hawkins, Thane E., and Weikal. 3,059,351.
Kedzierski, Stanley G. 3,038,226.
Manning, Harry F. 3,016,592.
Popovitsch, Ernst. 3,054,364.
Poux, Roland J. 3,045,307.
Ruhrmann, Josef. 3,054,168.
Ruhrmann, Josef, Streicher, and Popovitsch. 3,015,868.
Ruhrmann, Josef, Streicher, and Popovitsch. 3,054,171.
Streicher, Kurt. 3,054,149.
Tamagne, Henry J.: *See*—
Rozsinowski, Mitchell S., and Tamagne. 3,037,455.
Tamarin, Bernard J.: *See*—
Cutler, Morris, and Tamarin. 3,057,532.
Tamarin, Bernard J., to Vacuum Cleaner Corp. of America. Vacuum cleaner and cord-reel construction. 3,029,462, 4–17–62, Cl. 15—323.
Tamarin, Bernard J., and A. Meletti; said Meletti assor. to said Tamarin. Vacuum cleaner. 3,056,995, 10–9–62, Cl. 15—323.
Tamblyn, John W.: *See*—
Caldwell, John R., and Tamblyn. 3,068,112.
Tamborlleo, Mario V. Plastering machine. 3,047,237, 7–31–62, Cl. 239—215.
Tamburro, Francis P., to Willcox & Gibbs Sewing Machine Co. Trimmer mechanism. 3,024,748, 3–13–62, Cl. 112—123.
Tamm, Christoph, and G. Volpp, to Sandoz Ltd. 1α,11α-epoxy-3β,5,14,19,21-pentahydroxy 5β,14β-pregnane-(20)-one. 3,057,860, 10–9–62, Cl. 260—239.55.
Tamm, Christoph, and G. Volpp, to Sandoz Ltd. (also known as Sandoz A.G.). 3-oxo-14-hydroxy-11α, 19-diacetoxy-cardadien-(1,4)-olide and allied compounds. 3,070,597, 12–25–62, Cl. 260—239.57.
Tamm, Emil S., to The General Industries Co. Electric motors. 3,021,443, 2–13–62, Cl. 310—190.
Tamm, Emil S., to Rowe Mfg. Co., Inc. Powdered coffee dispenser. 3,033,249, 6–8–62, Cl. 141—369.
Tamm, Richard F., to Continental Can Co., Inc. Induction heating cut-off means. 3,068,336, 12–11–62, Cl. 219—7.5.
Tamny, Simon, to Borg-Warner Corp. Sucker rod elevator. 3,055,698, 9–25–62, Cl. 294—90.
Tamor Electric, Inc.: *See*—
Wiancko, Thomas H., and Bunce. 3,059,125.
Tampax Inc.: *See*—
Griswold, Earle A., and Lewing. 3,038,214.
Griswold, Earle A., and McLaughlin. 3,058,468.
Tamplen, Jack W., to Otis Engineering Corp. Pilot valve. 3,024,807, 3–13–62, Cl. 137—613.
Tamplen, Jack W., to Otis Engineering Corp. Fluid pressure systems and pilot valves therefor. 3,068,890, 12–18–62, Cl. 137—494.
Tampo Mfg. Co., Inc.: *See*—
Martin, John E. 3,053,157.
Tamuki, Teikichi: *See*—
Kawamura, Yurio, Tamuki, Takenouchi, Satani, Sakata, and Hanaoka. 3,039,880.
Tanabe, Hideo, to Takeda Pharmaceutical Industries, Ltd. Aluminium soaps and their production. 3,056,819, 10–2–62, Cl. 260—414.
Tanabe, Katsumi, R. Hayashi, and R. Takasaki. Process for preparing 3-Δ⁵-B-norsteroid compounds. 3,061,635, 10–30–62, Cl. 260—488.
Tanabe, Kenichi: *See*—
Osugi, Tetsuro, Tanabe, Kawabe, Yabe, Morimoto, and Miyazaki. 3,027,224.
Osugi, Tetsuro, Tanabe, and Mochizuki. 3,032,385.
Tanabe, Kenichi, and Y. Ohno, ¾ to Kurashiki Rayon Co., Ltd. and ¼ to Air Reduction Co., Inc. Polyvinyl alcohol fibers of improved dyeability. 3,023,182, 2–27–62, Cl. 260—29.6.
Tanabe, Kenichi, T. Suda, S. Miyazaki, and T. Osugi, ¾ to Kurashiki Rayon Co., Ltd., and ¼ to Air Reduction Co., Inc. Method of preparing polyvinyl alcohol filaments containing starch or derivatives thereof. 3,044,974, 7–17–62, Cl. 260—17.4.
Tanabe, Kenichi, and K. Matsubayashi, ¾ to Kuroshiki Rayon Co., Ltd., and ¼ to Air Reduction Co. Inc. Articles of polyvinyl alcohol having improved dyeability. 3,053,-605, 9–11–62, Cl. 8—115.5.
Tanabe Seiyaku Co., Ltd.: *See*—
Chibata, Ichiro, Kisumi, and Ashikaga. 3,058,888.
Fujii, Kiichi, Oda, Arita, Sakai, and Takeda. 3,037,998.
Fujii, Kiichi, Oda, Arita, Sakai, and Takeda. 3,068,281.
Okuda, Tomoharu. 3,039,920.
Sugimoto, Norio, Utsumi, and Ida. 3,041,243.
Tanaka, Hiroyoshi: *See*—
Yamamoto, Ryuichi, Tanaka, and Takehara. 3,031,467.
Tanaka, Ichiro, T. Yanagisawa, J. Sawada, Y. Misawa, and H. Nakayama, to Taisho Pharmaceutical Co., Ltd. Acid-stable digestive enzyme preparation and process of making same. 3,063,911, 11–13–62, Cl. 195—62.
Tanaka, John A.: *See*—
Berg, Daniel, and Tanaka. 3,069,579.
Tanaka, Keiji: *See*—
Kobashi, Takizo. 3,047,772.
Tanaka, Kentaro, to Shionogi & Co., Ltd. Process for preparing ribonucleoside-2',3'-cyclic phosphate. 3,062,808, 11–6–62, Cl. 260—211.5.
Tanaka, Nawokich. Refractor for presenting pictures in three dimensional effect. 3,053,135, 9–11–62, Cl. 88—1.
Tanaka, Shoji, and Y. Katori. Folding bicycles. 3,015,498, 1–2–62, Cl. 280—278.
Tanaka, Tetsuro, Y. Tagawa, and K. Kuyama, to Kokusai Denki Kabushiki-Kaisha. Mechanical filter. 3,028,564, 4–3–62, Cl. 333—72.
Tanaka, Yukio, to To-a-Kako Kabushiki Kaisha. Electric heating apparatus of fluidized electroconductive powder resistance. 3,025,385, 3–13–62, Cl. 219—50.
Tanaka, Yukio, to To-a Kako Kabushiki Kaisha. Electric direct heating method of heating metallic pieces. 3,060,304, 10–23–62, Cl. 219—50.
Tancred & Langley Ltd.: *See*—
Lawson-Tancred, Henry. 3,051,461.
Tancred, William L., and R. V. Bennett, to Sperry Rand Corp. Pin box stop and spring. 3,055,580, 9–25–62, Cl. 235—60.
Tancredi, Kenneth T.: *See*—
Briskel, Frank, Strain, Michel, and Tancredi. 3,026,873.
Tandler, Adolph, Jr. Applicator for pressurized container. 3,028,868, 4–10–62, Cl. 132—80.
Tandler, William S., M. Grossman, and A. Sloan, to The Warner & Swasey Co. Contour measuring apparatus. 3,023,506, 3–6–62, Cl. 33—174.
Tandy, Clyde A. Hanging table. 3,030,160, 4–17–62, Cl. 311—17.
Tanenbaum, Morris, and R. L. Wallace, Jr., to Bell Telephone Laboratories, Inc. Variable equalizer employing semiconductive element. 3,022,472, 2–20–62, Cl. 333—18.
Tang, Charles C. H., to Bell Telephone Laboratories, Inc. Tapered waveguide transition section. 3,050,701, 8–21–62, Cl. 333—34.
Tangeman, Lawrence N.: *See*—
Blue, John, and Tangeman. 3,033,301.
Tangen, Lauritz. Carpenter combination power tool. 3,052,-270, 9–4–62, Cl. 144—1.
Tanger, Leigh G.: *See*—
Au Werter, Jay P., and Tanger. 3,053,448.
Tangie Products, Inc.: *See*—
Valenti, Pasquale T. 3,035,357.
Tangjerd, Maurice P., 50% to A. Hjzhberg. Steering adjusting assembly. 3,064,993, 11–20–62. Cl. 280—93.
Tanguy, Denis R., to Schlumberger Well Surveying Corp. Methods and apparatus for investigating earth formations. 3,056,917, 10–2–62, Cl. 324—1.
Tanguy, Denis R., to Schlumberger Well Surveying Corp. Induction well logging. 3,067,383, 12–4–62, Cl. 324—6.
Tank, John K. Boat. 3,043,260, 7–10–62, Cl. 115—6.1.
Tanke, Willard H., to Allis-Chalmers Mfg. Co. Tractor mounted cultivator. 3,023,816, 3–6–62, Cl. 172—273.
Tanke, Willard H., to Allis-Chalmers Mfg. Co. Slip heel for plows. 3,023,819, 3–6–62, Cl. 172—738.
Tanke, Willard H., to Allis-Chalmers Mfg. Co. Implement mounting arrangement. 3,026,944, 3–27–62, Cl. 172—273.
Tanke, Willard H., to Allis-Chalmers Mfg. Co. Shield mounting. 3,026,945, 3–27–62, Cl. 172—509.
Tanke, Willard H., to Allis-Chalmers Mfg. Co. Liquid distributor for agricultural implements. 3,044,712, 7–17–62, Cl. 239—127.
Tanker, George E.: *See*—
Courtot, Louis B., and Tanker. 3,056,424.
Tann Corp., The: *See*—
Abel, Martin L. 3,034,838.
Abel, Martin L. 3,053,588.
Abel, Martin L., and Tann. 3,036,870.
Ovshinsky, Stanford R. 3,066,203.
Tann, David. 3,034,366.
Tann, David, to Tann Corp. Variable pitch pulley. 3,034,-366, 5–15–62, Cl. 74—230.17.
Tann, Irvin: *See*—
Abel, Martin L., and Tann. 3,036,870.
Tann, Rosabelle K. Slipper sock. 3,023,420, 3–6–62, Cl. 2—239.

Tannehill, James R., R. D. Moore, and F. A. Zaenkert; said Zaenkert assor. to said Tannehill and said Moore. Meat packaging machine. 3,023,556, 3–6–62, Cl. 53—123.

Tannehill, James R., and R. D. Moore. Apparatus for use in and method of packaging food products and the like. 3,023,557, 3–6–62, Cl. 53—123.

Tannenbaum, Wesley, E. Hudes, and A. L. Goldstein, to Avco Mfg. Corp. Magnetic recording system. 3,027,425, 3–27–62, Cl. 179—15.55.

Tannenbaum, Wesley, J. F. Cleary, and L. T. Ohlson, to Avco Corp. Electromagnetic transducer head housing and assembly. 3,043,919, 7–10–62, Cl. 179—100.2.

Tanner, Charles J., to Terry Machinery Co. Ltd. Uninterrupted power sources. 3,050,635, 8–21–62, Cl. 307—64.

Tanner, David: *See*—
Cline, Edward T., and Tanner. 3,068,122.

Tanner, Donald W.: *See*—
Muchnick, Paul, Tanner, Silver, and Helterline. 3,042,848.

Tanner, Fred W., Jr., F. A. Hochstein, and K. Mural, to Chas. Pfizer & Co., Inc. Antibiotics and processess. 3,022,347, 2–20–62, Cl. 260—571.

Tanner, Henry E.: *See*—
Roth, Ernest E., and Tanner. 3,038,615.

Tanner, Lawrence S., and A. Lindinger. Die with plastic liner. 3,041,989, 7–3–62, Cl. 113—49.

Tanner, Walter, and W. C. White, to Canadian Industries Ltd. Slug-loaded shotgun cartridge. 3,058,420, 10–16–62, Cl. 102—38.

Tannini, Camillo. Combined piano and accordion instrument. 3,049,960, 8–21–62, Cl. 84—172.

Tansey, John P. Hinge and partition combination. 3,044,107, 7–17–62, Cl. 16—186.

Tantillo, Alfred V.: *See*—
Schwartz, Morris, and Tantillo. 3,038,771.

Tantlinger, Keith W., to Fruehauf Trailer Co. Trailer clearance and marker light. 3,017,501. 1–16–62, Cl. 240—8.2.

Tantlinger, Keith W., to Sea-Land Service, Inc. Apparatus for handling freight in transit. 3,027,025, 3–27–62, Cl. 214—38.

Tantlinger, Keith W., to Sea-Land Service, Inc. Shipboard freight container transferring apparatus. 3,042,227, 7–3–62, Cl. 214—15.

Tantlinger, Keith W., to Sea Land Service, Inc. Tarpaulin roof construction for open top freight containers. 3,044,653, 7–17–62, Cl. 220—1.5.

Tantlinger, Keith W., and T. C. Schubach, to Fruehauf Trailer Co. Supporting and carrying frame for freight containers and the like 3.058,603, 10–16–62, Cl. 214—85.

Tantlinger, Keith W., and R. G. Flagan to Fruehauf Trailer Co. Trailer roof construction. 3,061,364, 10–30–62, Cl. 296—137.

Tantram, Anthony D. S.: *See*—
Chambers, Hubert H., and Tantram. 3,068,311.

Tanuma, Kazuo. Can opening tool. 3,067,909, 12–11–62, Cl. 220—48.

Tao, Deh C., to The Bassick Co. Leveling device. 3,045,390, 7–24–62, Cl. 45—39.

Tao, Luh C., to Titanium Metals Corp. of America. Descaling titanium and titanium base alloy articles. 3,030,286, 4–17–62, Cl. 204—141.

Tapas, John C., and L. P. Wilks, to Velsicol Chemical Corp. Polymers of dicyclopentylvinyl ether. 3,062,782, 11–6–62, Cl. 260—47.

Taperell, Geoffrey L., to W. H. Smith & Son (Alacra) Ltd. Web feeding mechanism for tabulating and like machines. 3,028,944, 4–10–62, Cl. 197—133.

Tapeswitch Corp. of America: *See*—
Koenig, Robert H. 3,052,772.

Tapex Corp.: *See*—
Hoeckele, Walter J. 3 019.442.

Tapin, Jean H., to Societe de Produits Chimiques et Engrais d'Auby. Manufacture of complex fertilizers. 3,026,192, 3–20–62, Cl. 71—43.

Taplo, John C.: *See*—
Koop, Brent. 3,049 597.

Tapiovaara, Osmo. Collansible chair or wheel chair for children or adults. 3,024.035, 3–6–62, Cl. 280—47.4.

Tapleshay, John A., to FMC Corp. Diffuser. 3,048,339, 8–7–62, Cl. 239—371.

Tapp, Ernest T. J., to County Commercial Cars Ltd. Driving transmission for vehicles having multiple driven wheel axles. 3,029,883, 4–17–62, Cl. 180—22.

Tapp, Ernest T. J., and J. Davey, to County Commercial Cars Ltd. Driving transmissions for the rear wheels and front wheels of steerable motor vehicles. 3,054,468, 9–18–62, Cl. 180—44.

Tapp, G. L.: *See*—
Elmore. Harry M. 3,049,765.

Tapp, Gerald L. Folding stairway. 3,024,863, 3–13–62, Cl. 182—78.

Tapp, William J.: *See*—
Mills, Edward J., Jr., and Tapp. 3,030,425.

Tappan Co., The: *See*—
Hoff, John M. 3,051,862.
Perl, Richard L. 3,057,341.
Scott, Harry R. 3,029,805.
Warner, Elmer L. 3 036,189.

Tapper, Robert. Electrical epilator. 3,054,405, 9–18–62, Cl. 128—303.18.

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Tapper, Samuel. Containers with slide covers. 3,018,918, 1–30–62, Cl. 220—41.

Tapper, Samuel. Tablet dispensing packages. 3,040,929, 6–26–62, Cl. 221—246.

Taprogge, Josef. Self-cleaning heat-exchanger. 3,021,117, 2–13–62, Cl. 257—1.

Tarantino, Frank R., to American Cyanamid Co. Pigment compositions. 3,067,053, 12–4–62, Cl. 106—308.

Tarasuk, George J. Punch card. 3,045,905, 7–24–62, Cl. 235—61.12.

Tarbell, Harlan E., Jr.: *See*—
Boyer, William M., Gavlin, and Tarbell. 3,031,421.
Boyer, William M., Molotsky, and Tarbell. 3,038,875.
Molotsky, Hyman M., Boyer, and Tarbell. 3,036,019.
Molotsky, Hyman M., Boyer, and Tarbell. 3,047,527.

Tarbell, Harlan E., Jr., to The Richardson Co. Reaction products of epoxylated compositions and process. 3,036,-041, 5–22–62, Cl. 260—47.

Tarbouriech, Francis P. M.: *See*—
Gaudon, Louis, Lehmann, Marcheguet, and Tarbouriech. 3,028,340.

Tarbox, Albert E., and S. Leeds, to Union Carbide Corp. Treating plastic articles. 3,021,270, 2–13–62, Cl. 204—168.

Tarbox, George S., to Jacoby-Tarbox Corp. Flow indicator tube. 3,015,300, 1–2–62, Cl. 116—117.

Tarbox, John P., and J. H. Hollyday, to Sperry Rand Corp. Hay baler. 3,059,755, 10–23–62, Cl. 198—128.

Tarbox, Philip B., to Saco-Lowell Shops. Drafting mechanism. 3,029,479, 4–17–62, Cl. 19—131.

Tarbox, Ronald F.: *See*—
Dean, Noel S., and Tarbox. 3,067,782.
Dean, Noel S., and Tarbox. 3,069,108.

Tarbuck, Robert R.: *See*—
Misbin, Ted J., Tarbuck, and Solyst. 3,032,339.

Tarbuck, Robert R., to Burroughs Corp. Snap action device. 3,016,433, 1–9–62, Cl. 200—67.

Tarbuck, Robert R., to Burroughs Corp. Sheet feeding mechanism. 3,042,397, 7–3–62, Cl. 271—51.

Tarczy-Hornoch, Zoltan, to W. K. Rosenberry, d.b.a. Able Research Lab. Geometrical gauging apparatus. 3,060,-791, 10–30–62, Cl. 88—14.

Tardif, Archie L. Collar type lock device for structural members of staging. 3,027,181, 3–27–62, Cl. 287—53.5.

Tarika, Elio E.: *See*—
Peterson, Earl A., Tarika, and Rossen. 3,041,736.

Taris, Charles M.: *See*—
Miller, Robert A., Munson, Owendoff, and Taris. 3,022,-380.

Tarkow, Harold: *See*—
Conlisk, John R., Jonas, Stamm, Tarkow, and Weatherwax. 3,034,947.

Tarmy, Barry L.: *See*—
Lucchesi, Peter J., and Tarmy. 3,018,237.

Tarmy, Barry L., and R. B. Long, to Esso Research and Engineering Co. Radiochemical hydrocarbon conversion process. 3,018,233, 1–23–62, Cl. 204—154.

Tarrant, Jack: *See*—
Nichols, Talley W., and Tarrant. 3,024,558.

Tarrant, James H., and R. B. Anderson, to Western Urn Mfg. Co. Coffee brewer. 3,036,512, 5–29–62, Cl. 99—300.

Tarrant, Paul, and E. C. Stump, Jr., to United States of America, Army. 2-(2,2,2-trifluoroethoxy)-butadiene and polymers thereof. 3,062,799, 11–6–62, Cl. 260—91.1.

Tarschisch, Harry: *See*—
Leonard, Edward J., Hemel, Tarschisch, Karow, Gibson, and Liston. 3,036,160.

Tartaglia, Richard A.: *See*—
Remington, Frederic, and Tartaglia. 3,036.550.
Remington, Frederic, and Tartaglia. 3,066,723.
Remington, Frederic, and Tartaglia. 3,066,784.

Tartter, Arnold: *See*—
Eisele, Julius, Federkiel, Schuster, Gehm, Tartter, Graser, Rohland, and Stoeckl. 3,037,030.

Tartter, Arnold, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Water-soluble dyestuffs of the azaporphin series. 3,023,218, 2–27–62, Cl. 260—314.5.

Tarukawa, Tomiji. Mixing apparatus. 3,041,049, 6–26–62, Cl. 259—9.

Tarukawa, Tomiji. Apparatus for the automatic weighing of a predetermined amount of stock-material. 3,067,827, 12–11–62, Cl. 177—82.

Tarver, Gilbert W.: *See*—
Alexander, Stephen H., and Tarver. 3,070,523.
Alexander, Stephen H., and Tarver. 3,070,524.

Tarvin, James W., and J. R. Fisher, to Armour & Co. Process for freeze-drying mushrooms. 3,033,690, 5–8–62, Cl. 99—204.

Tashlick, Irving, to Monsanto Chemical Co. Preparation of water-soluble sulfones. 3,069,471, 12–18–62, Cl. 260—607.

Task Corp., The: *See*—
Cunningham, Patrick J., and Wolf. 3,043,136.
Rizney, Richard N. 3,064.449.
Ward, Elmer F. 3,043,968.

Tasker, Homer G., to Tasker Instruments Corp. Method and apparatus for air traffic control. 3,063,634, 11–13–62, Cl. 235—151.

Tasker Instruments Corp.: *See*—
Tasker, Homer G. 3,063,634.

Taslitt, Norman, and W. Byrd, Jr., to United States of America, Navy. Apparatus for producing underwater acoustic signals. 3,052,205, 9–4–62, Cl. 116—27.

Tassile, Celso, deceased (R. Tassile, executrix of said C. Tassile). Lubricating device for overhead conveyors. 3,017,955, 1–23–62, Cl. 184—15.

Tassile, Rose: *See*—
Tassile, Celso.

Tassler, Milford C., to E. I. du Pont de Nemours and Co. Polymeric film having integral metallic luster and process for producing same. 3,057,825, 10–9–62, Cl. 260—75.

Tata, Raymond V., to Leesona Corp. High speed traverse mechanism. 3,048,342, 8–7–62, Cl. 242—43.

Tatarchuk, Fred. Convertible railway freight cars. 3,034,-454, 5–15–62, Cl. 105—243.

Tatarek, Adam. 33¼% to A. F. Ciesinski. Nut cracker, fruit squeezer or the like. 3,064,700, 11–20–62, Cl. 146—13.

Tate, Charles: *See*—
Shannon, James F., Tate, and Fulton.

3,026,745.

Tate, Clifton W., to Monsanto Chemical Co. Purification of phthalic acids. 3,047,624, 7–31–62, Cl. 260—525.

Tate, Clarence R. Magnetic writing materials set. 3,036,-388, 5–29–62, Cl. 35—66.

Tate, David P.: *See*—
Hook, Edwin O., and Tate. 3,023,092.
Hook, Edwin O., and Tate. 3,060,009.

Tate, Herbert L. Dust bathing apparatus. 3,018,760, 1–30–62, Cl. 119—159.

Tate, Herbert L. Animal movement controlling apparatus. 3,062,183, 11–6–62, Cl. 119—15.

Tate, Lawrence A., to International Business Machines Corp. Single shot multivibrator with pulse width control. 3,050,-639, 8–21–62, Cl. 307—88.5.

Tate, Samuel M. Vest ceiling jack. 3,039,765, 6–19–62, Cl. 269—3.

Tateishi, Toshio, to Nippon Mishin Seizo Kabushiki Kaisha. Stitch forming mechanism of lock-stitch sewing machine for zigzag sewing. 3,033,139, 5–8–62, Cl. 112—159.

Tatel, Howard E., deceased (M. Tatel, executrix), and J. H. Sreb, 21.25% to W. L. Abramowitz, 21.25% to W. Epstein, 15% to J. Zallen, 27.50% to said Tatel, 15% to said Sreb. Anti-collision system for ships and planes. 3,025,-521, 3–13–62, Cl. 343—112.

Taticek, Lubomir: *See*—
Svaty, Vladimir, Riha, and Taticek. 3,047,027.

Tatlock, John: *See*—
Butler, Frank, and Tatlock. 3,030,291.

Tatlock, John, and J. A. F. Glass, to United States of America, Atomic Energy Commission. Support structures. 3,049,485, 8–14–62, Cl. 204—193.2.

Tatlock, John, and J. A. F. Glass, to United Kingdom Atomic Energy Authority. Nuclear reactor control assemblies. 3,054,741, 9–18–62, Cl. 204—193.2.

Tatnall, George J., and A. F. Scarcelli, to United States of America, Navy. Speed brake retarding mechanism for an air-dropped store. 3,047,259, 7–31–62, Cl. 244—138.

Tatnall, Joseph S.: *See*—
Mains, Gerald H., McGinnis, and Tatnall. 3,022,203.

Tatone, John M. Model aircraft fuel tank and engine support. 3,059,879, 10–23–62, Cl. 244—54.

Tatosian, Thomas G.: *See*—
Sullivan, Frederick, and Tatosian. 3,062,417.

Tatsuguchi, Isamu: *See*—
Mumford, William W., and Tatsuguchi. 3,026,490.

Tatter, Charles W.: *See*—
Obenauf, Carl F., and Tatter. 3,060,030.

Tatter, John Wilbur: *See*—
Tatter, John W. 3,016,261.

Tatter, John W., to M. W. and John Wilbur Tatter, by Decree of Distribution, in equal proportions. Vehicle doors. 3,016,261, 1–9–62, Cl. 296—46.

Tatter, Marie W.: *See*—
Tatter, John W. 3,016,261.

Tatum, Dyess C.: *See*—
Ayres, Henry S., and Tatum. 3,036,415.

Tatum, Ornan V.: *See*—
De Faller, George J., Tatum, and Livingston. 3,019,567.
Hoffsommer, Robert D., Jr., Taub, and Wendler. 3,028,-398.

Taub, Bernard: *See*—
Cheng, Chao-Shing, and Taub. 3,047,482.

Taub, Bernard, to Allied Chemical Corp. Rapid-curing epoxy resin compositions and method of making. 3,036,-975, 5–29–62, Cl. 260—2.

Taub, David: *See*—
Wendler, Norman L., and Taub. 3,065,239.

Taub, David, to Merck & Co., Inc. Process of preparing benzophenones. 3,055,933, 9–25–62, Cl. 260—496.

Taub, David, N. L. Wendler, and H. L. Slates, to Merck & Co., Inc. Novel 16-alkyl and 16-alkylene steroids and processes. 3,053,865, 9–11–62, Cl. 260—397.45.

Taub, David, and N. L. Wendler, to Merck & Co., Inc. Novel 15-halo-16-alkyl steroids and processes. 3,056,813, 10–2–62, Cl. 260—397.45.

Taub, David, and N. L. Wendler, to Merck & Co., Inc. 16-alkoxy steroids and processes. 3,068,224, 12–11–62, Cl. 260—239.55.

Taub, David, N. L. Wendler, and R. D. Hoffsommer, Jr., to Merck & Co., Inc. Process for the preparation of 16-methylene compounds of the pregnane series. 3,068,226, 12–11–62, Cl. 260—239.55.

Taub, Edward A.: *See*—
Cohen, Irwin, and Taub. 3,058,869.

Taub, William, to Calanda-Stiftung, Institut für wissenschaftliche und technische Forschung. Glutarimide derivatives. 3,057,867, 10–9–62, Cl. 260—281.

Taudiere, Emile, to E. Marot Societe. Grain cleaning and grading machine. 3,036,706, 5–29–62, Cl. 209—35.

Taugner, Jack W.: *See*—
Ostline, John E., Coleman, and Taugner. 3,019,295.
Ostline, John E., and Taugner. 3,046,342.

Taul, Horst, and F. Wiloth, to Vereinigte Glanzstoff-Fabriken AG. Apparatus and method for the continuous production of polyamides. 3,027,355, 3–27–62, Cl. 260—78.

Taulli, Thomas A.: *See*—
Roman, Daniel P., and Taulli. 3,046,234.

Taunt, James E., to International Business Machines Corp. Electrical power systems. 3,058,006, 10–9–62, Cl. 307—38.

Tausch, Gilbert H.: *See*—
Corley, Charles B., Jr., Kenneday, and Tausch. 3,032,-166—44.

Tausch, Gilbert H., to Jersey Production Research Co. Sand washing method and apparatus. 3,020,955, 2–13–62, Cl. 166—44.

Tausch, Gilbert H., to Jersey Production Research Co. Apparatus for removing sand from wells. 3,020,957, 2–13–62, Cl. 166—99.

Tausch, Gilbert H., to Camco, Inc. Magnetic valve for well plunger. 3,055,306, 9–25–62, Cl. 103—52.

Tausch, Gilbert H., to Camco, Inc. Well injection and bleed valve. 3,066,690, 12–4–62, Cl. 137—155.

Tausch, Gilbert H., to Camco, Inc. Plunger actuated well control. 3,070,344, 12–25–62, Cl. 251—65.

Tausch, Gilbert H., and J. W. Kenneday, to Jersey Production Research Co. Permanent well completion apparatus. 3,032,117, 5–1–62, Cl. 166—189.

Tausch, Gilbert H., C. B. Corley, Jr., and J. W. Kenneday, to Jersey Production Research Co. Plural completion of wells. 3,040,813, 6–26–62, Cl. 166—189.

Tausch, Gilbert H., and J. W. Kenneday, Jersey Production Research Co. Method of working over underwater wells. 3,055,429, 9–25–62, Cl. 166—66.5.

Tauschek, Max J., to Thompson Ramo Wooldridge Inc. Polycrystalline with wear resistant stem tip. 3,028,479, 4–3–62, Cl. 219—76.

Tauschek, Max J., to Thompson Ramo Wooldridge Inc. Temperature and speed sensitive drive. 3,059,745, 10–23–62, Cl. 192—58.

Tauschek, Max J., J. M. Cherrie, and R. O. Beutell, to Thompson Ramo Wooldridge Inc. Method of making hollow valves. 3,016,601, 1–16–62, Cl. 29—156.7.

Tauschek, Max J., and W. S. Gleeson, to Thompson Ramo Wooldridge Inc. Control for exhaust driven supercharger. 3,052,085, 9–4–62, Cl. 60—13.

Tava, Aurelio J., E. Adinas, and A. A. Annunziato, to Sperry Rand Corp. Temperature responsive indicating system. 3,059,229, 10–16–62, Cl. 340—227.

Tavender, Walter K., to Reimers Electric Appliance Co. Inc. Electrically-heated steam generators. 3,036,195, 5–22–62, Cl. 219—38.

Taves, Milton A., to Hercules Powder Co. Methylated benzene oxidation. 3,030,413, 4–17–62, Cl. 260—524.

Taves, Richard H. Can opener. 3,019,524, 2–6–62, Cl. 30—6.1.

Tawney, Pliny O., to United States Rubber Co. Diethyl 3,3,3-trinitropropanephosphonate and process of preparing same. 3,021,353, 2–13–62, Cl. 260—461.

Tawney, Pliny O., to United States Rubber Co. Self-igniting rocket propellants containing organic silanes. 3,028,272, 4–3–62, Cl. 149—36.

Tawney, Pliny O., to United States Rubber Co. Cross-linking copolymers of N-carbamylmaleimide. 3,035,027, 5–15–62, Cl. 260—77.5.

Tawney, Pliny O., to United States Rubber Co. N-(β,β,β,-trinitroethyl)-acetamide. 3,038,010, 6–5–62, Cl. 260—561.

Tawney, Pliny O., to United States Rubber Co. 1,1,1,7,7,7-hexanitroheptanone-4. 3,038,011, 6–5–62, Cl. 260—593.

Tawney, Pliny O., to United States Rubber Co. Piperazine derivatives. 3,038,902, 6–12–62, Cl. 260—268.

Tawney, Pliny O., to United States Rubber Co. 1,1,1,6,6,6-hexanitrohexyne-3 and process for preparing same. 3,040,-105, 6–19–62, Cl. 260—644.

Tawney, Pliny O., to United States Rubber Co. Trinitroalkyl ethers. 3,050,565, 8–21–62, Cl. 260—614.

Tawney, Pliny O., and I. J. Schaffner, to United States Rubber Co. Trinitropropyl acetate and process. 3,027,403, 3–27–62, Cl. 260—488.

Tawney, Pliny O., and J. W. Sargent, to United States Rubber Co. 2,6-bis(2-hydroxy-1 naphthylmethyl) 4-alkylphenols and their use as antioxidants for fats. 3,033,883, 5–8–62, Cl. 260—398.5.

Tayco Development, Inc.: *See*—
Taylor, Paul H. 3,023,786.

Taylor, Alton R., to Parke, Davis & Co. Heat and ultraviolet light attenuation of polio virus. 3,019,168, 1–30–62, Cl. 167—78.

Taylor, Anthony J., and N. G. Worlepy, to Babcock & Wilcox Ltd. Plant including nuclear reactor. 3,070,536, 12–25–62, Cl. 204—193.2.

Taylor, Aradon N. Neck support. 3,070,090, 12–25–62, Cl. 128—75.

Taylor, Arthur R., to Brown Co. Dry well forming receptacle. 3,060,693, 10–30–62, Cl. 61—13.

Taylor, Arthur S., to American Cyanamid Co. Centrifugal casting of collagen to produce films and ribbons. 3,036,-341, 5–29–62, Cl. 18—58.3.

Taylor, Arthur S., and J. A. Corley, to American Cyanamid Co. Rapid heat sterilization of bottles. 3,058,177, 10–16–62, Cl. 21—79

Taylor, Arthur W. C., and F. Dean, to Imperial Chemical Industries Ltd. Oxidation of organic compounds. 3,064,-043, 11–13–62, Cl. 260—523.

Taylor, Arthur W. C., and F. Dean, to Imperial Chemical Industries Ltd. Oxidation of organic compounds. 3,064,046, 11–13–62, Cl. 260—523.

Taylor, Aubrey B.: *See*—
Greathouse, Glen A., and Taylor. 3,023,144.

Taylor, Benjamin H. Water-fowl decoy. 3,047,972, 8–7–62, Cl. 43—3.

Taylor, Bernard: *See*—
Aisbury, Allan, Phillips, and Taylor. 3,047,509.

Taylor, Bert: *See*—
Cook, Percy A., James, and Taylor. 3,055,055.

Taylor, Bert L., 16% to W. Franko, 16% to A. P. Horvath, and 16% to A. A. Horvath. Oxygen inhalator. 3,030,064, 4–17–62, Cl. 251—127.

Taylor, Burt L.: *See*—
Duncan, Richard T., Long, Stupka, Taylor, and Wise. 3,046,944.

Taylor, Bruce G. Annular winged aircraft with trailing edge wing tabs. 3,055,613, 9–25–62, Cl. 244—12.

Taylor, Burrett W. Apparatus for installing wallboard on ceilings. 3,019,914 2–6–62, Cl. 214—1.

Taylor, Cecil H. Toilet flush valve. 3,046,565, 7–31–62, Cl. 4—67.

Taylor, Cecil L., to Leslie Hartridge Ltd. Apparatus for cleaning the nozzle bodies of the injectors of compression ignition internal combustion engines. 3,068,876, 12–18–62, Cl. 134—95.

Taylor, Charles M., to International Business Machines Corp. Locking device. 3,045,306, 7–24–62, Cl. 24—134.

Taylor, Charles W.: *See*—
Davis, Edward E., and Taylor. 3,024,514.

Taylor, Christopher G., and F. A. Baroschini, to Service Distributors, Inc. Protector for gasket for clothes dryer door. 3,047,187, 7–31–62, Cl. 220—46.

Taylor, Clarence C.: *See*—
Leo, Herbert T., and Taylor. 3,034,901.

Taylor, Clarence R., and W. C. Wilson, to Eastman Kodak Co. Photographic copying apparatus. 3,020,837, 2–13–61, Cl. 101—132.5.

Taylor, Clarence R., and W. C. Wilson, to Eastman Kodak Co. Photographic copying apparatus stripping mechanism. 3,062,135 11–6–62, Cl. 101—232.

Taylor, Clyde M.: *See*—
Miller, Leon R., and Taylor. 3,026,749.

Taylor, Don A. Air intake scoop for ventilating seat cushion. 3,039,807 6–19–62, Cl. 297—180.

Taylor, Donald L., and D. G. Thompson, to Lockheed Aircraft Corp. Metal sealing assembly. 3,047,300, 7–31–62, Cl. 277—102.

Taylor, Donald L., and D. G. Thompson, to Lockheed Aircraft Corp. Static sealing assembly. 3,047,301, 7–31–62, Cl. 277—117.

Taylor, Donald S.: *See*—
McCloskey, Allen L., Taylor, and Steinberg. 3,044,943.

Taylor, Donald S., to Commonwealth Scientific and Industrial Research Organization. Combing of textile fibres. 3,055,-059, 9–25–62, Cl. 19—123.

Taylor, Donald S., J. G. Bower, and R. E. Bohm, to United States Borax & Chemical Corp. Process for producing purified borazoles. 3,018,307, 1–23–62, Cl. 260—551.

Taylor, Dudley D. Vacuum deposited strain gage and method of making same. 3,022,570, 2–27–62, Cl. 29—155.7.

Taylor, Dudley D. Method of applying a sealing with C-shaped radial section. 3,058,750, 10–16–62, Cl. 277—1.

Taylor, Edward L., to KVP Sutherland Paper Co. Method of reclaiming fibers from parchmentized paper. 3,015,602, 1–2–62, Cl. 162—7.

Taylor, Edward W.: *See*—
Momberg, James W., and Taylor. Re. 25,203.

Taylor, Eleanor N. Serving tray for hors d'oeuvres and the like. 3,042,019, 7–3–62, Cl. 126—43.

Taylor, Eric W., and D. E. Kent, to Electric & Musical Industries Ltd. Amplitude control circuit for stereophonic reproducers. 3,066,187, 11–27–62, Cl. 179—1.

Taylor, Ernest: *See*—
Jackson, Percy, and Taylor. 3,048,155.
Jackson, Percy, and Taylor. 3,051,147.

Taylor, Ernest F.: *See*—
Bopp, Edward O., and Taylor. 3,028,910.
Bopp, Edward O., and Taylor. 3,061,005.
Gill, Donald W. 3,064,277.

Taylor, Florence M.: *See*—
Franz, Henry J. 3,034,415.

Taylor, Garthwood R., to General Motors Corp. Boot for booster unit. 3,037,486, 6–5–62, Cl. 121—41.

Taylor & Gaskin, Inc.: *See*—
Gaskin, Mervyn G., and Hourigan. 3,032,212.

Taylor, George, to William Cotton Ltd. Production of garments on straight bar knitting machines. 3,050,967, 8–28–62, Cl. 66—88.

Taylor, George B., to The Glidden Co. Metallic sulfide pigment. 3,041,234, 6–26–62, Cl. 162—160.

Taylor, George W.: *See*—
Colsher, James W., and Taylor. 3,063,412.

Taylor, Halsey W. Projectors for water drinking fountains. 3,039,697, 6–19–62, Cl. 239—31.

Taylor, Harold W.: *See*—
Gordon, George A. D., Taylor, and Wood. 3,050,988.

Taylor, Harry. Trailer pit hoist. 3,040,837, 6–26–62, Cl. 187—8.5.

Taylor, Harry P.: *See*—
Boughton, George J., Dalrymple, and Taylor. 3,044,890.

Taylor, Harwood S., Jr., to F. M. Howell & Co. Shockproof carton. 3,029,998, 4–17–62, Cl. 229—39.

Taylor, Henry W. Sportsman's bag. 3,029,852, 4–17–62, Cl. 150—1.

Taylor, Herbert E., to United Aircraft Corp. Temperature compensated control device. 3,053,281, 9–11–62, Cl. 137—779.

Taylor, Herbert W.: *See*—
Gaynor, Frank A., Gibbons, and Taylor. 3,045,956.

Taylor, Hugh P., to Raytheon Co. Tachometer stabilization networks. 3,015,767, 1–2–62, Cl. 318—28.

Taylor, Hugh P., to Raytheon Co. Frequency diode-rate counter circuits. 3,049,631, 8–14–62, Cl. 307—88.5.

Taylor Instrument Companies: *See*—
Aldinger, Donald J. 3,047,022.
Cefaly, Ralph. 3,020,971.
Decker, Robert M., and Nichols. 3,069,554.
Jaquith, Howard R. 3,047,002.
Jaquith, Howard R., and Hurdle. 3,025,868.
Jaquith, Howard R., and Klumb. 3,030,928.
Klumb, Harvey A. 3,029,036.
Klumb, Harvey A., and Heller. 3,044,069.

Taylor, Maurice W. E. Johnstone, and W. T. Montgomery, to Imperial Chemical Industries Ltd. Explosive compaction of metal powders. 3,023,462, 3–6–62, Cl. 18—59.3.

Taylor, James A. Automobile seats. 3,051,525, 8–28–62, Cl. 297—313.

Taylor, James S. Spider and slip construction. 3,025,582, 3–20–62, Cl. 24—263.

Taylor, Jay R., and R. J. Kavanaugh, to Consolidated Electronics Industries Corp. Indicating device. 3,038,438, 6–12–62, Cl. 116—115.

Taylor, Joel T. Gutter positioning and supporting device. 3,061,041, 10–30–62, Cl. 182—129.

Taylor, John E., to Foster Wheeler Corp. Method and apparatus for preheating boiler feed water for steam power plants. 3,016,712, 1–16–62 Cl. 60—67.

Taylor, John E., to Thompson Ramo Wooldridge Inc. Automobile gas turbine control system. 3,032,987, 5–8–62, Cl. 60—39.28.

Taylor, John H., to S. Srybnik. Rotary kiln. 3,036,823, 5–29–62, Cl. 263—33.

Taylor, John S., to Continental-Diamond Fibre Corp. Method of making cementable fluorocarbons, such as polytetrafluoroethylene and the like and the product. 3,047,421, 7–31–62, Cl. 117—70.

Taylor, Jordan M.: *See*—
Brown, Joseph L., Layden, Taylor, and Weiss. 3,043,509.
Brown, Joseph L., Taylor, and Stoughton. 3,048,333.

Taylor, Jordan M., to International Business Machines Corp. Data processing system including an indicating register. 3,019,976 2–6–62, Cl. 235—157.

Taylor, Jordan M., to International Business Machines Corp. Serial operation of a parallel computer. 3,034,720, 5–15–62, Cl. 235—155.

Taylor, Julian S. Jr. Float valve for drill pipe and the like. 3,066,693, 12–4–62, Cl. 137—454.2.

Taylor, Kenneth M.: *See*—
Van Der Beck, Roland R., and Taylor. 3,041,142.

Taylor, Kenneth M., to The Carborundum Co. Methods for making boron nitride materials. 3,038,809, 10–16–62, Cl. 23—191.

Taylor, Leonard G.: *See*—
Sherwen, Theo, and Taylor. 3,043,353.

Taylor, Le Roy M. Alarm-equipped drain pan. 3,069,671, 12–18–62, Cl. 340—244.

Taylor, Leslie G.: *See*—
Pearce, Edwin S., Taylor, and Booth. 3,048,414.

Taylor, Lloyd M.: *See*—
Tyce, Theodore C., and Taylor. 3,064,634.

Taylor, Lockhart: *See*—
Alexander, Ludovic W. G., and Taylor. 3,036,271.

Taylor, Lucian W. Filter cartridge and method of making the same. 3,061,107, 10–30–62, Cl. 210—487.

Taylor Machine Works: *See*—
Eaves, James J. 3,039,809.
Eaves, James J. 3,050,328.

Taylor Mfg. Co., Inc.: *See*—
Challch, Charles, and Beard. 3,058,606.

Taylor, Marvin, to American Bosch Arma Corp. Gyroscopic devices. 3,033,045, 5–8–62, Cl. 74—5.4.

Taylor, Maurice I.: *See*—
Kerry, Thomas H., and Taylor. 3,030,051.
Kerry, Thomas H., Ward and Taylor. 3,059,878.
Thomas, Samuel D., and Taylor. 3,041,830.

Taylor, Maurice I., to Rolls-Royce Ltd. Housings for jet propulsion gas turbine engines. 3,037,723, 6–5–62, Cl. 244—23.

Taylor, Maurice I., to Rolls-Royce Ltd. Power plant for use in jet sustained aircraft. 3,043,538, 7–10–62, Cl. 244—23.

Taylor, Moddie D.: *See*—
Grant, Louis R., and Taylor. 3,049,406.
Taylor, Nelson A., Co., Inc.: *See*—
Taylor, Willard H. 3,016,548.
Taylor, Ormsby P.: *See*—
Ferry, Wilbur V., Holley, and Taylor. 3,070,721.
Taylor, Owen L., to The Bryant Electric Co. Wiring device. 3,036,288, 5–22–62, Cl. 339—159.
Taylor, Paul E.: *See*—
Bookout, Charles C., Sattavara, and Taylor. 3,023,579.
Bookout, Charles C., and Taylor. 3,065,813.
Taylor, Paul H., to Tayco Development, Inc. Accumulator. 3,023,786, 3–6–62, Cl. 138—31.
Taylor, Paul K., to Radio Corp. of America. Determining the range of an infra-red source with respect to a point. 3,026,413, 3–20–62, Cl. 250—83.3.
Taylor, Philip, and E. E. Bowers; said Bowers assor. to said Taylor. Half-tone visual film scanner. 3,021,750, 2–20–62, Cl. 88—14.
Taylor, Philip H., to Northrop Corp. Tracking telescope. 3,015,249, 1–2–62, Cl. 88—1.
Taylor, Raymond G., Jr., to Borg-Warner Corp. Stop collar. 3,023,036, 2–27–62, Cl. 287—52.03.
Taylor, Richard D.: *See*—
Alford, Joseph S., and Taylor. 3,041,825.
Hines, Paul R., and Taylor. 3,036,123.
Taylor, Richard P., to American Chemical Co. Process for production of cyclic ketoximes and lactams from cycloalkanes by means of ionizing radiation. 3,062,812, 11–6–62, Cl. 260—239.3.
Taylor, Richard P., and J. C. Selover, to Richfield Oil Corp. Phthalic acid products purification. 3,058,997, 10–16–62, Cl. 260—346.7.
Taylor, Robert B., Jr.: *See*—
Mehler, Albert J., Jr., Proffitt, and Taylor. 3,039,173.
Taylor, Robert B., Jr., to E. I. du Pont de Nemours and Co. Novel crimped and crimpable filaments and their preparation. 3,038,237, 6–12–62, Cl. 28—82.
Taylor, Robert C.: *See*—
Gzemski, Felix C., and Taylor. 3,041,299.
Taylor, Robert L. Golf instruction apparatus. 3,041,075, 6–26–62, Cl. 273—187.
Taylor, Roland C., to The Western Union Telegraph Co. Ferrite inductance cores. 3,028,570, 4–3–62, Cl. 336—83.
Taylor, Ronald W., to A. C. Cossor, Ltd. Arrangements for controlling the lengths into which fed material is cut. 3,048,751, 8–7–62, Cl. 318—11.
Taylor, Ruel E., Jr.: *See*—
Atwood, Lamar T., and Taylor. 3,054,442.
Taylor, Russell C., to American Can Co. Method of producing cylindrical articles. 3,030,668, 4–24–62, Cl. 18—58.3.
Taylor, Samuel S. Umbrella-style hat. 3,020,555, 2–13–62, Cl. 2—177.
Taylor, Sheldon A.: *See*—
Janes, Milton, and Taylor. 3,065,088.
Taylor, Smith & Taylor Co., The: *See*—
Elliott, Walter L. 3,039,163.
Elliott, Walter L. 3,040,409.
Taylor, Stanford E., to Educational Developmental Laboratories, Inc. Training means for skimming. 3,055,122, 9–25–62, Cl. 35—35.
Taylor, Stephen M., to Metal Coating Corp. Liquid supply pumping system. 3,030,891, 4–24–62, Cl. 103—25.
Taylor, Taylor & Hobson Ltd.: *See*—
Cook, Gordon H. 3,045,546.
Reason, Richard E. 3,025,700.
Reason, Richard E. 3,025,701.
Taylor, Thomas S.: *See*—
Huntress, Howard B., and Taylor. 3,053,349.
Huntress, Howard B., and Taylor. 3,056,262.
Huntress, Howard B., and Taylor. 3,056,264.
Taylor, Thomas U.: *See*—
Downham, Ralph, and Taylor. 3,059,606.
Taylor, Tristram A., and N. Stephenson, to Minister of Supply in Her Majesty's Government of the United Kingdom of Great Britain and Northern Ireland. Heat resisting alloys. 3,059,325, 10–23–62, Cl. 29—182.3.
Taylor, Vernon F., Jr.: *See*—
Harper, Frederick R. 3,046,197.
Harper, Frederick R. 3,046,198.
Taylor, Virgil. Valve. 3,049,721, 8–21–62, Cl. 4—37.
Taylor, Walter E.: *See*—
Bly, Kenneth B., Taylor, and Thomas. 3,042,452.
Rodgers, John A., and Taylor. 3,025,753.
Thomas, Thomas G., Taylor, and Embree. 3,018,853.
Taylor, Walter J., Jr.: *See*—
Yeomans, Clive M., Engberg, and Taylor. 3,038,846.
Taylor, Walter P., Jr., ¼ to J. W. Newman. Winding flexible material. 3,061,238, 10–30–62, Cl. 242—163.
Taylor, Wesley L., to The Dole Valve Co. Pneumatic relay. 3,030,778, 4–24–62, Cl. 60—60.
Taylor, Wesley L., to The Dole Valve Co. Pneumatic selection system. 3,043,328, 7–10–62, Cl. 137—112.
Taylor, Wesley L., to The Dole Valve Co. Ice making apparatus and control mechanism therefor. 3,048,023, 8–7–62, Cl. 62—135.
Taylor, Wesley V., Jr.: *See*—
Eastman, Du Bois, Dille, Taylor, Toettcher, and Jordan. 3,048,540.
Taylor, Wilbur S.: *See*—
Harvey, Allan M., Karsten, and Taylor. 3,024,163.
Taylor, Wilfred K., to National Research Development Corp. System for analysing the spatial distribution of a function. 3,016,518, 1–9–62, Cl. 340—149.
Taylor, Willard H., to Nelson A. Taylor Co., Inc. Two part glass windshield to rest on a crowned boat deck. 3,016,548, 1–16–62, Cl. 9—1.
Taylor, William: *See*—
Benua, Louis P., and Taylor. 3,060,703.
Taylor, William. Blade for rotary-type lawn mowers. 3,068,633, 12–18–62, Cl. 56—295.
Taylor, William A. Liquid measuring device. 3,059,472, 10–23–62, Cl. 73—200.
Taylor, William B.: *See*—
Hardy, John M., Taylor, and Griffin. 3,054,628.
Taylor, William E.: *See*—
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Taylor-Wilson Mfg. Co.: *See*—
McConnell, William M. 3,023,608.
McConnell, William M. 3,035,336.
McConnell, William M., and Carey. 3,033,025.
McConnell, William M., Bradley, Carey, and Chappell. 3,039,584.
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Cooper, Joseph H. 3,064,869.
Mallett, John E., and Cooper. 3,021,416.
Riley, Joseph J. 3,021,497.
Seeloff, Melvin M. 3,046,384.
Seeloff, Melvin M. 3,049,385.
Woodward, Foster R. 3,017,495.
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Tays, George E. Boat anchor. 3,023,723, 3–6–62, Cl. 114—206.
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Barnett, Charles H., and Teagle. 3,058,732.
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Schumacher, Joseph N., Henley, Bernasek, and Teague. 3,050 532.
Teague, Claude E., Jr., T. C. James, and C. D. Mays, to R. J. Reynolds Tobacco Co. Process for recovering sclareol from clary sage. 3,060,172, 10–23–62, Cl. 260—236.6.
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Johnson, George F., and Teague. 3,062 838.
Teague, Marvin A. Collar support. 3,027,055, 3–27–62, Cl. 223—83.
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Stansbury, Benjamin H., Jr., and Teague. 3,027,041.
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Tebbs, George S. Game. 3,048,404, 8–7–62, Cl. 273—131.
Tebeau, Walter D.: *See*—
Sehl, Eugene, and Tebeau. 3,038,390.

Teca Corp.: *See*—
Reiner, Stuart. 3,060,923.
Tecalemit Ltd.: *See*—
Jackson, Harold E. 3,042,571.
Tech-Art, Inc.: *See*—
MacLeod, Donald. 3,031,810.
Techne (Cambridge) Ltd.: *See*—
Ross, William J. 3,024,737.
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Leitner, Robert T., and Drake. 3,030,622.
Technical Design and Development Co., Inc.: *See*—
Georgette, Nicholas J., and Hayden. 3,035,833.
Technical Oil Tool Corp., Ltd.: *See*—
Suter, Oswald. 3,047,961.
Technical Operations, Inc.: *See*—
Smyth, Robert R. 3,061,769.
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Chambers, Frank H., and Moats. 3,036,620.
Technical Tape Corp.: *See*—
Cohen, Paul. 3,023,887.
Technical Wire Products Inc.: *See*—
Hartwell, Ralf L. 3,019,281.
Hartwell, Ralf L. 3,026,367.
Technicolor Corp.: *See*—
Inouye, George T. 3,037,083.
Peasgood, Harold. 3,035,749.
Schreiber, William F. 3,017,456.
Schreiber, William F. 3,035,121.
Technicon Instruments Corp.: *See*—
Ferrari, Andres. 3,020,130.
Ferrari, Andrés, Jr. 3,018,224.
Ferrari, Andres, Jr. 3,028,224.
Ferrari, Andres Jr. 3,065,148.
Isreeli, Jack. 3,023,965.
Israeli, Jack. 3,038,340.
Isreeli, Jack. 3,046,831.
Isreeli, Jack. 3,057,603.
Kessler, Gerald. 3,047,367.
Pelavin, Milton H. 3,031,915.
Pelavin, Milton H. 3,031,917.
Skeggs, Leonard T. 3,024,692.
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Takacs, Andrew S., and Beck. 3,026,574.
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Boris, Sonia. 3,043,524.
Technique de Recherches Industrielles et Mecaniques S.T.R.I.M., Societe: *See*—
Precoul, Michel. 3,044,255.
Technitrol, Inc.: *See*—
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Techno Corp.: *See*—
Smith, Edward M. 3,047,012.
Technology Instrument Corp. of Acton: *See*—
Fraser, Alton W., and Thomas. 3,015,793.
MacDonald, William J. 3,015,587.
Pihl, George E. 3,011,782.
Pihl, George E. 3,026,474.
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Nelson, Eugene L. 3,042,013.
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Tedeschi, Edward T., to Dennison Mfg. Co. Box with hinged cover. 3,035,752, 5–22–62, Cl. 229—44.
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Tedrick, John. Electrical marker lamp. 3,059,134, 10–16–62, Cl. 313—110.
Teeguarden, Harry W. and L. Balls. 3,039,773, 6–19–62, Cl. 273—61.
Teeguarden, Lillian · *See*—
Teeguarden, Harry W. and L. 3,039,773.
Tee-Nee Trailer Co.: *See*—
Olney, James E. 3,022,090.
Tee-Pak, Inc.: *See*—
Hlavacek, William J., and Fleming. 3,023,554.
Teer, Hubert O., Jr.: *See*—
Lovette, Edd H. 3,042,261.
Teer, Kees, to North American Philips Co., Inc. Correction of high frequency components of brightness signal in color receiver. 3,051,776, 8–28–62, Cl. 178—5.4.
Teeter, Howard M.: *See*—
Schwab, Arthur W., and Teeter. 3,047,413.
Teetor, Ralph R., to Perfect Circle Corp. Speed control device for an automotive vehicle. 3,050,147, 8–21–62, Cl. 180—82.1.
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Tefft, Ivan D., to The Parker Pen Co. Writing instruments. 3,063,420, 11–13–62, Cl. 120—42.4.
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Hochgraf, Norman, Schatz, and Tegge. 3,052,665.
Tegge, Bruce R., F. P. Baldwin, and G. E. Serniuk, to Esso Research and Engineering Co. Continuous process for chemically modifying iso-olefin-multiolefin rubbery polymer. 3,023,191, 2–27–62, Cl. 260—73.
Tegge, Bruce R., and J. L. Bryan, Jr., to Esso Research and Engineering Co. Process for the production of olefinic elastomers. 3,033,836, 5–8–62, Cl. 260—85.3.
Teggelaar, Claude J.: *See*—
Swierbut, Michael N., and Teggelaar. 3,028,640.
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Tegner, Carl-Axel E., and H. Anderson. Audiometers. 3,037,082, 5–29–62, Cl. 179—1.
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Teichner, Rudolf R.: *See*—
Baumann, John S., Muller, and Teichner. 3,033,392.
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Teillon, Jean: *See*—
Hagemann, Guy, Nomine, Penasse, and Teillon. 3,052,605.
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Tek, Mehmet R., to Phillips Petroleum Co. Hydrocarbon recovery by thermal drive. 3,048,221, 8–7–62, Cl. 166—11.
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Frenkel, Lothar. 3,023,336.
Kobbe, John R. 3,061,788.
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Cosse, Claude, and Loy. 3,046,892.
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Beman, Ward W. 3,035,764.
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Bennett, William E., Nooteboom, and Weissberg. 3,053,099.
Brubaker, John W. 3,053,485.
Dixon, Fredric J. 3,037,484.
Drillick, Jacob H. 3,035,762.
McQueen, Malcolm M. 3,058,485.
Nevius, Searle G. 3,068,456.
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Phillips, Delbert L., and Smith. 3,026,928.
Rodman, Sherwin B. 3,029,390.
Telectro Industries Corp.: *See*—
Oster, Frank, and Rosenberg. 3,061,670.
Teleflex Inc.: *See*—
Bentley, James S. 3,038,730.
Cadwallader, Alvin A. 3,051,886.
Cadwallader, Alvin A. 3,063,303.
Teleflex Products Ltd.: *See*—
Bentley, James S. 3,058,687.
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Alexandersson, Harald V. 3,060,274.
Boeryd, Arne G. T., Lindback, Fredriksson, and Mitnitzky. 3,069,508.
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Eklund, Oscar J. 3,027,426.
Holmberg, Arne F., Hellkvist, and Raub. 3,068,436.
Jacob, Walter E. W. 3,062,919.
Johannesson, Nils O. 3,022,952.

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Nilsson, Nils E., Björk, and Rodnert. 3,045,067.
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Pliskär, Inge G. 3,022,805.
Pugerud, John B. 3,035,212.
Söderbaum, Carl G., and Mitnitzky. 3,022,379.
Stemme, Nils G. E. 3,017,611.
Svala, Carl G., and Bergmann. 3,052,760.
Thorsen, Jarl M. 3,023,355.
Treffner, Arvo, Lilisunde, and Brunberg. 3,043,915.
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Springer, Anton M. 3,022,383.
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Becker, Rudolf. 3,048,845.
Bruch, Walter. 3,049,640.
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Dinter, Konrad. 3,044,019.
Fischer, Georg. 3,052,421.
Franke, Fritz. 3,016,424.
Groll, Horst P., and Lange. 3,030,443.
Henze, Ernst F. 3,039,028.
Kausch, Werner. 3,048,663.
Klein, Werner. 3,052,808.
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Marx, Georg. 3,070,718.
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Amadon, Paul M. 3,043,904.
Lacan, Guy H. 3,041,504.
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Luntz, Fred L., and Lynch. 3,053,474.
Teleprompter Corp.: *See*—
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Bukowski, Charles P., and Wesley. 3,038,032.
Harris, Thomas S., Jr. 3,051,382.
Krakinowski, Morris, and Michel. 3,052,874.
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Vanderminden, Robert D. 3,037,811.
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Fay, James P., and Pickard. 3,029,318.
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Acko, Robert E. 3,025,346.
Baumgartner, William H. 3,050,171.
Biggam, Frank D., and Reek. 3,033,928.
Byrnes, William P. 3,021,388.
De Boo, Jerome L. 3,025,016.
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Gough, George L., Jr. 3,061,674.
Kinnie, Nathaniel G. 3,036,146.
Kartasuk, Raymond H., and Wampach. 3,065,836.
Kettnich, Ernst W. 3,024,971.
Moebius, Frederick C. 3,033,927.
Madsen, Berthel F. 3,044,590.
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Przysiecki, Theodore I. 3,033,926.
Simms, Paul R. 3,033,339.
Slayton, Ransom D. 3,045,061.
Tolerico, Severio J. 3,035,470.
Winston, Charles R. 3,060,429.
Zenner, Walter J. 3,056,546.
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Tellefson, Douglas R.: *See*—
Anderson, William F., Shimazaki, Stelle, and Tellefson. 3,029,198.
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Helversen, Frederick D., Chaplin and Tellier. 3,021,254.
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Teltscher, Erwin: *See*—
Sarzin, Julius L., Teltscher, Steinberg, and Weisman. 3,025,470.
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Bartholomé, Ernst, Gruendler, and Teltschik. 3,031,286.
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Mancke, Edgar B., Schmuk and Temmel. 3,021,189.
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Perlman, Sidney H. 3,059,087.
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Stout, Glenn M., and Temple. 3,067,305.
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Martin, Arthur T., and Temple. 3,048,548.
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Rheingold, Lawrence M., and Berlin. 3,022,758.
Templeton, Herbert W.: *See*—
Heiss, John P., and Templeton. 3,042,393.
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Lester, Harry R. 3,019,864.
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Ten Bosch, Maurits, and H. C. Bredemeier, to M. Ten Bosch, Inc. Rotor balancer. 3,044,304, 7–17–62, Cl. 73—462.
Ten Haken, Melvin G., W. S. Parsons, and B. H. Marks, to Globe-Union Inc. Feed-through capacitors. 3,052,824, 9–4–62, Cl. 317—101.
Ten Ham, Evert J., and J. H. G. Wilson, to North American Philips Co., Inc. Method particularly suitable for the prevention of paresis puerperalis in cattle. 3,032,468, 5–1–62, Cl. 167—53.
Ten Have, Cornelis D.: *See*—
Bally, Adrianus P., and Ten Have. 3,062,736.
Bunnigh, Weigert C., and Ten Have. 3,055,825.
Tenak Products Co.: *See*—
Libberton, Herbert. 3,031,959.
Tench, John D.: *See*—
Stout, William J., Ferris, and Tench. 3,044,917.
Tench, John D., to Sun Oil Co. Wax composition for candles. 3,044,103, 7–24–62, Cl. 44—7.5.
Tench, John D., to Sun Oil Co. Wax composition. 3,069,-346, 12–18–62, Cl. 208—21.
Tench, John D., and S. W. Ferris, to Sun Oil Co. Wax coated cellophane. 3,016,312, 1–9–62, Cl. 117—118.2.
Tenconi, Riccardo, to M. S. Maretta. Abating sinker for circular knitting machines. 3,024,634, 3–13–62, Cl. 66—107.
Tendick, Frank H., P. E. Thompson, and E. F. Elslager, to Parke, Davis & Co. Fungicidal agents and means of producing the same. 3,017,413, 1–16–62, Cl. 260—279.
Tendick, Frank H., Jr., to Bell Telephone Laboratories, Inc. Logic circuit. 3,054,002, 9–11–62, Cl. 307—88.5.
Tendor Corp.: *See*—
De Vries, Joseph. 3,065,773.
Teng, James: *See*—
Shockley, Alvin B., and Teng. 3,048,888.
Tengler, Harvey N.: *See*—
Radke, Arthur O., and Tengler. 3,059,890.
Simons, Allison K., Radke, and Tengler. 3,061,260.
Tengsater, Torsten N.: *See*—
Goodell, John D., Tengsater, and Shelley. 3,051,327.
Tengsater, Torsten N., to Allis-Chalmers Mfg. Co. Nuclear reactor experimental facility. 3,028,328, 4–3–62, Cl. 204—193.2.
Tengsater, Torsten N., to Allis-Chalmers Mfg. Co. Nuclear reactor experimental facility. 3,028,497, 4–3–62, Cl. 250—106.
Tenison, Earnest M., and G. E. Thiel. Reusable aerosol dispenser. 3,053,422, 9–11–62, Cl. 222—399.
Tennant, G. H., Co.: *See*—
Peabody, Ralph C., and Krier. 3,023,440.
Tenmike Corp.: *See*—
Gagliano, Michael. 3,041,773.
Tennant, C., Sons & Co.: *See*—
Sirles, John P. and E. A. 3,052,179.
Tenner, Arnold J.: *See*—
Conley, Kurt H., and Tenner. 3,023,973.
Tennes, Charles J.: *See*—
Krauss, Serge L., and Tennes. 3,039,347.
Tennes, Charles J., to C. G. Conn, Ltd. Electrical musical system. 3,040,613, 6–26–62, Cl. 84—1.25.
Tennesen, William C.: *See*—
Reed, James C. 3,018,924.
Tennessee Corp.: *See*—
Nikitin, Alexander A., and Fite. 3,057,712.
Sauls, Thomas W., and Wimberly. 3,042,490.
Singley, John E., and Christiansen. 3,044,983.
Singley, John E., and Whittle. 3,060,151.
Tennessee Pictures, Inc.: *See*—
Leach, Sam L. 3,037,441.
Tennessee Valley Authority: *See*—
Brosheer, John C. 3,028,230.
Brown, Earl H. 3,028,217.
Brown, Earl H. 3,053,623.
Burt, Reynold B., and Barber. 3,050,374.
Hignett, Travis P., Phillips, and Young. 3,034,883.
Potts, John M., Elder, and Anderson. 3,022,154.
Striplin, Marcus M., Jr., McKnight, and Marks. 3,015,-540.
Striplin, Marcus M., Jr., Stinson, and Wilbanks. 3,015,-552.
Walters, Henry K., Jr. 3,019,099.
Tenney, Lewis N.: *See*—
Wright, Jay L., Tenney, and Allen. 3,064,677.
Tenney, Ralph J.: *See*—
Landfried, Bert W., and Tenney. 3,033,686.
Tenney, William L. Double sickle reciprocating cutting assembly driven by a free piston internal combustion engine. 3,023,563, 3–6–62, Cl. 56—26.5.
Tenney, William L. Outboard motor transmission. 3,025,-822, 3–20–62, Cl. 115—17.
Tenney, William L. Outboard motor construction. 3,025,823, 3–20–62, Cl. 115—17.
Tenney, William L., and J. E. Eastman; said Eastman assor. to said Tenney. Lawn mower with reciprocating cutter driven by a free piston internal combustion engine. 3,023,564, 3–6–62, Cl. 56—26.5.
Tennis, Francis H., to Hydraulic Unit Specialties Co. Hydraulic apparatus for variable load systems. 3,037,354, 6–5–62, Cl. 60—52.
Tennis, Francis H., to Hydraulic Unit Specialties Co. Hydraulic control valve. 3,052,218, 9–4–62, Cl. 121—46.5.
Tennyswood, Howard J., to Revco, Inc. Refrigerator and freezer door construction. 3,041,679, 7–3–62, Cl. 20—35.
Tennyson, James J. Floating snake antenna. 3,068,477. 12–11–62, Cl. 343—709.
Tension Envelope Corp.: *See*—
Berkowitz, Eugene B. 3,063,618.
Tension Envelope Corp. of Kansas City: *See*—
Krueger, Kenneth H. 3,039,674.
Tensitron, Inc.: *See*—
Saxl, Erwin J. 3,022,025.
Teot, Arthur S., to The Dow Chemical Co. Polymerization of N-vinylcarbazole. 3,024,225, 3–6–62, Cl. 260—88.1.
Teot, Arthur S., to The Dow Chemical Co. Caustic mercerizing solutions. 3,027,223, 3–27–62, Cl. 8—125.
Teotino, Uberto: *See*—
Maffii, Giulio, and Teotino. 3,069,318.
Teotino, Uberto, and G. Cignarella, to Lepetit S.p.A. 2,5-dihydro-1,2,4-benzo thiadiazedine-1,1-dioxide. 3,051,727, 8–28–62, Cl. 260—327.
Teotino, Uberto, and G. Cignarella, to Lepetit, S.p.A. 1,3-dihydro-2,3,5-benzothia-diazepine - 2,2 - dioxides. 3,067,208, 12–4–62, Cl. 260—327.
Teplitz, Abraham J.: *See*—
Huitt, Jimmie L., Pekarek, and Teplitz. 3,062,294.
Teplitz, Abraham J., to Gulf Research & Development Co. Method of completing wells. 3,026,936, 3–27–62, Cl. 166—23.
Teplitz, Alfred: *See*—
Slamar, Frank, and Teplitz. 3,019,577.
Teplitz, Alfred, to United States Steel Corp. Method and apparatus for coiling strip. 3,021,086, 2–13–62, Cl. 242—80.
Teplitz, Alfred, to United States Steel Corp. Single-cut drum-type shear with projectable cutter. 3,057,239, 10–9–62, Cl. 83—337.
Tepolt, Florian E., and D. B. Heaslip, to The Bendix Corp. Electronic timer. 3,019,356, 1–30–62, Cl. 307—132.
Terayama, Denzaburo, and H. Toriumi, to Tokyo Juki Kogyo Kabushiki Kaisha. Lubricating means for the loop taker in the sewing machine. 3,064,606, 11–20–62, Cl. 112—256.
Terayama, Denzaburo, and K. Yamanaga. Hand knitting machines. 3,053,064, 9–11–62, Cl. 66—60.
Ter Braak, Bernardus and J. G. Vacuum boiling apparatus. 3,039,523, 6–19–62, Cl. 159—44.
Ter Braak, Johannes G.: *See*—
Ter Braak, Bernardus and J. G. 3,039,523.
Terek, Joseph A., and W. D. Stewart, to Atlantic Research Corp. Process for taking skin prints. 3,029,538, 4–17–62, Cl. 41—26.
Terenzi, Joseph F., to American Cyanamid Co. Particulation of polymer by extruding a solution thereof into a liquid stream of fluid. 3,042,970, 7–10–62, Cl. 18—47.3.
Tereszkiewicz, Constantine A.: *See*—
Tower, Walter R., Strauss, and Tereszkiewicz. 3,034,117.
Terez, Clarence S., to General Electric Co. Lamp base and bulb assembly apparatus. 3,046,635, 7–31–62, Cl. 29—25.19.
Ter Haar, Karel C.: *See*—
Van den Blink, Willem P., ter Haar, and Ettema. 3,021,-418.
Terho, Mikko. Loading and unloading equipment for a motor truck. 3,051,339, 8–28–62, Cl. 214—505.
Terjesen, Sven G.: *See*—
Erga, Olav, and Terjesen. 3,064,408.
Terkoski, Frank J.: *See*—
Porter, Herbert C., Terkoski, and Warner. 3,064,147.
Simmons, Milton E., Finsterwalder and Terkoski. 3,021,-444.
Simmons, Milton E., Finsterwalder, and Terkoski. 3,045,-137.
Terlecki, Renat, and J. W. Bailey, to British Telecommunications Research Ltd. Testing of binary apparatus. 3,040,129, 6–19–62 Cl. 178—69.
Termet, Pierre. Fastener driving interlocking pistol or tool. 3,050,732, 8–28–62, Cl. 1—44.5
Terminal Drilling and Production Co.: *See*—
Woodruff, Charles R. 3,016,099.
Termont, Charles G.: *See*—
French, John L., Termont, and Gunn. 3,032,215.
Ternow, Helmut G., to Dresser Industries, Inc. Casing collar locator. 3,019,841, 2–6–62, Cl. 166—55.1.
Ternyak, Steve J.: *See*—
Beatty, Milton R. 3,048,869.
Terp, Vernon E.: *See*—
Rockett, Charles W., Higgins, and Terp. 3,047,857.
Terpening, Kenneth A.: *See*—
Eves, John D., and Terpening. 3,024,065.
Terpenning, Carl H., Jr., to General Electric Co. Retort for an ammonia dissociator and the like. 3,025,145. 3–13–62, Cl. 23—288.
Terra Engineering Co., Inc.: *See*—
Bowersox, Joseph W. 3,024,830.

Terra Industries, Inc.: *See*—
Blazey, Lawrence E. 3,018,772.
Terra, Martin: *See*—
Renaldi, John A., Markunas, and Terra. 3,027,136.
Terraz, Marius, ⅓ to M. Conchon, ⅓ to L. Cottier, and ⅓ to G. Philippin. Parking meter. 3,049,864, 8–21–62, Cl. 58—143.
Terre Hill Machine Co.: *See*—
Wenger, Harvey M. 3,045,811.
Terrel, Garland C.: *See*—
Pistole, Harry, Rike, Terrel, and Lefner. 3,055,339.
Terrell, Stephan H. Apparatus for mechanically treating metal and plastic surfaces. 3,043,065, 7–10–62, Cl. 51—195.
Terrell, Amos H. Laundry machine cart. 3,048,290, 8–7–62, Cl. 214—384.
Terrell, Robert D., to Terrell Tool & Die Corp. Rotatable crawler unit for selective longitudinal or sidewise movement. 3,040,829, 6–26–62, Cl. 180—9.2.
Terrell Tool & Die Corp.: *See*—
Terrell, Robert D. 3,040,829.
Terrenzio, Antonio: *See*—
Squires, Walter, Jr., and Terrenzio. 3,055,824.
Terry, Allen P. Waler bracker. 3,047,264, 7–31–62, Cl. 248—205.
Terry, Billy W.: *See*—
Groves, William L., Jr., and Terry. 3,068,279.
Terry, Billy W., R. C. Sias, and W. W. Woods, to Continental Oil Co. Plasticol composition containing overbased oil-soluble metal organic sulfonate and process of foaming same. 3,067,151, 12–4–62, Cl. 260—2.5.
Terry, Bob E.: *See*—
Patterson, William E., Terry, Beaty, Kerr, and Collins. 3,030,983.
Terry, Charles M., to A.W. Cash Valve Mfg. Corp. Valve mechanism. 3,015,963, 1–9–62, Cl. 74—44.
Terry, Edwin C. and R. C. Heated drinking trough. 3,044,445, 7–17–62, Cl. 119—73.
Terry, George C.: *See*—
Kamenstein, David, and Terry. 3,062,603.
Terry, Glenn A.: *See*—
Ruhoff, John R., Towle, Moss, and Terry. 3,029,131.
Terry Machinery Co. Ltd.: *See*—
Tanner, Charles J. 3,050,635.
Terry, Melvin C., to Jersey Production Research Co. Well logging apparatus. 3,028,542, 4–3–62, Cl. 324—10.
Terry, Morris A., to Auto-Pak, Inc. Carton forming machine. 3,064,542, 11–20–62, Cl. 93—44.1.
Terry, Paul V., to General Electric Co. Synchronized resetting for a plurality of demand meters. 3,034,056, 5–8–62, Cl. 324—103.
Terry, Robert C.: *See*—
Terry, Edwin C. and R. C. 3,044,445.
Terry, Robert L.: *See*—
Williamson, Robert R., and Terry. 3,022,495.
Terry, Samuel M.: *See*—
Sherts, James H., Terry, and Coultrap. 3,041,224.
Terry, Samuel M., to Stubnitz Greene Corp. Method of molding polyether urethane foam articles. 3,056,168, 10–2–62, Cl. 18—48.
Terry, Trent B., and A. C. Watson, 50% to H. L. Settle, and 50% to said Watson. Outer shirts and blouses. 3,066,418, 12–4–62, Cl. 33—12.
Tersa A.G., Firma: *See*—
Strack, Rainer. 3,027,642.
Terwan, Johannes: *See*—
Van Alphen, Jan, and Terwan. 3,029,264.
Terwilliger, Floyd A. Container closure. 3,032,226, 5–1–62, Cl. 215—46.
Terzian, John, to Sylvania Electric Products Inc. Data processing system. 3,061,192, 10–30–62, Cl. 235—157.
Tesch, Audrey G.: *See*—
Hoffmann, Arthur K., and Tesch. 3,032,589.
Tesch, James F.: *See*—
Kirsten, Gerhard H., and Tesch. 3,027,758.
Tesch, Karl: *See*—
Ewald, Waldemar, and Tesch. 3,054,338.
Tesche, Walter J., to Western Electric Co., Inc. Ultrasonic cutting tool. 3,023,547, 3–6–62, Cl. 51—59.
Teshima, Seizo, S. Yonezaki, H. Nitto, and M. Obu, to Yawata Iron & Steel Co., Ltd. Process for coating ferrous metal with aluminum. 3,027,269, 3–27–62, Cl. 117—51.
Teshirogi, Toshihiko: *See*—
Tomonoh, Haruki, and Techirogi. 3,029,367.
Tesi, Giorgio, and C. M. Douglas, to United States of America, Navy. Preparation of bis(trifluoromethyl) phosphinous amide. 3,052,720, 9–4–62, Cl. 260—551.
Tesi, Giorgio, and C. M. Douglas, to United States of America, Navy. Bis(perfluoroalkyl) phosphinic nitrides. 3,065,266, 11–20–62, Cl. 260—551.
Tesi, Michael G.: *See*—
Thomas, Raymond J., and Tesi. 3,035,164.
Teske, Wolfgang, and A. Krettler, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process and apparatus for preparing alkali metal azodisulfonates. 3,063,920, 11–13–62, Cl. 204—91.
Tesla, narodni podnik: *See*—
Delong, Armin, Drahoš, and Specialný. 3,046,397.
Tesoro, Giuliana C. Products of polyvinyl alcohol compounds with divinyl sulfone and processes for preparation thereof. 3,031,435, 4–24–62, Cl. 260—79.3.
Tesoro, Giuliana C., to J. P. Stevens & Co., Inc. Process of and composition for producing improved textile materials having oil and water repellent and antistatic properties. 3,061,473, 10–30–62, Cl. 117—139.5.
Tesoro, Giuliana C., and P. I. Linden, to J. P. Stevens & Co., Inc. Treating cotton to improve wet and dry crease recovery in one operation. 3,061,399, 10–30–62, Cl. 8—120.
Tesoro, Giuliana C., E. I. Valko, and A. Freiman, to Onyx Oil & Chemical Co. Polyamines. 3,070,552, 12–25–62, Cl. 260—2.1.
Tess, Gerald F.: *See*—
Elston, George F., and Tess. 3,037,527.
Tessem, Bernt M., to Minneapolis-Honeywell Regulator Co. Condition responsive device. 3,046,786, 7–31–62, Cl. 73—356.
Tessier, Jean: *See*—
Nomine, Gerard, Bertin, and Tessier. 3,020,296.
Tessmann, Alfred H. Continuous casting apparatus. 3,022,552, 2–27–62, Cl. 22—57.2.
Tessmar, Klaus, to Rohm & Haas G.m.b.H. Method of forming a resin from a nitrogen compound, formaldehyde, an alcohol and an unsaturated monocarboxylic acid, and product thereof. 3,018,265, 1–23–62, Cl. 260—45.2.
Tessmar, Klaus, and F. Kollinsky, to Rohm & Haas G.m.b.H. Preparation of unsaturated polyester reaction product of a dihydric alcohol and an unsaturated polymer, and resulting products. 3,041,305, 6–26–62, Cl. 260—45.4.
Tessmar, Klaus D.: *See*—
Kollinsky, Harald K., Tessmar, and Volker. 3,033,782.
Testa, Aldo. Self-inflating pneumatic unit for naval salvage operations. 3,070,059, 12–25–62, Cl. 114—54.
Testa, Emilio, to Lepetit, S.p.A. Alpha-substituted beta-propiolactones. 3,028,399, 4–3–62, Cl. 260—343.9.
Testa, Emilio, to Lepetit S.p.A. Process for preparing 1,3-oxazine-2,4-diones. 3,063,997, 11–13–62, Cl. 260—244.
Testa, Emilio, L. Fontanella, and G. Maffii, to Lepetit S.p.A. Pharmacologically active compounds. 3,028,378, 4–3–62, Cl. 260—239.
Testa, Emilio, L. Fontanella, and G. Maffii, to Lepitit S.p.A. Pharmacologically active compounds. 3,037,019, 5–29–62, Cl. 260—239.
Testa, Frank J., to Eagle Lock Corp. Lock mechanism. 3,035,433, 5–22–62, Cl. 70—364.
Testard, William A.: *See*—
Bress, John H. Fredericksen, and Testard. 3,019,446.
Testo, Frank J. Call device. 3,054,216, 9–18–62, Cl. 46—180.
Testolini, Giovanni. Apparatus for the propulsion, translation, support and static stabilisation of a movable medium in a fluid. 3,027,708, 4–3–62, Cl. 60—35.5.
Te Strake, Lambertus. Device for collecting a thread, as well as a weaving loom provided with this device. 3,024,814, 3–13–62, Cl. 139—127.
Tetens, Harold G.: *See*—
Linehan, John J., and Tetens. 3,052,394.
Teter, John W.: *See*—
Van Overstraad, Robert A., Teter, Keith, and Hauel. 3,058,907.
Tetreault, Merritt D., to Whitin Machine Works. Spindle brake. 3,060,671, 10–30–62, Cl. 57—88.
Tetreault, Merritt D., to Whitin Machine Works. Spindle brake. 3,063,230, 11–13–62, Cl. 57—88.
Teuchert, Rudolf, to Alfred Gauthier G.m.b.H. Method for the objective indication of the shape and size of workpieces. 3,035,480, 5–22–62, Cl. 88—14.
Teufel, George. Floral base. 3,044,200, 7–17–62, Cl. 41—12.
Teufel, George. Wreath base. 3,059,365, 10–23–62, Cl. 41—12.
Teufel, Helmut, to Geigy Chemical Corp. 3-oxo-1,2,6-thiadiazine-1,1-dioxides. 3,041,336, 6–26–62, Cl. 260—243.
Teutsch, Arno: *See*—
Wahlmann, Clemens, and Teutsch. 3,049,949.
Teutsch, Marvin W., to Radio Corp. of America. Combined sensing and switch device. 3,052,773, 9–4–62, Cl. 200—61.41.
Te Velde, Ties S., to The Nederlandse Centrale Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek. Heat flowmeter and process and device for the production thereof. 3,035,965, 9–25–62, Cl. 136—4.
Teves, Alfred, Maschinen- und Armaturenfabrik K.G.: *See*—
Bessler, Alfred, Rabe, Dobbelstein, and von Ey. 3,056,472.
Bessler, Alfred, Rabe, Dobbelstein, and Von Ey. 3,065,829.
Erdmann, Hans. 3,024,736.
Erdmann, Hans. 3,031,975.
Tew, George A.: *See*—
Corbin, Charles R., Jr., and Hammett. 3,025,028.
Tewksbury, John M.: *See*—
Hemphill, Alfred A., and Tewksbury. 3,034,122.
Hemphill, Alfred A., and Tewksbury. 3,040,269.
Texaco Development Corp.: *See*—
Kiersted, Wynkoop, Jr. 3,038,854.
Texaco Experiment Inc.: *See*—
Clark, Wendall J. 3,043,223.
Fleischhauer, Eugene T. 3,044,289
Truax, Robert C. 3,029,704.
Texaco Inc.: *See*—
Agnew, Robert J., Truitt, and Robertson. 3,030,308.
Allen, Joseph C. 3,024,840.
Allen, Joseph C. 3,030,801.
Allen, Joseph C. 3,035,637.
Allen, Joseph C. 3,063,499.

Texaco Inc.: *See*—Continued
Allen, Joseph C. 3,068,657.
Allen, Joseph C., and Kunetka. 3,026,935.
Allen, Joseph C., and McKay. 3,038,333.
Arkell, Alfred. 3,021,204.
Arnold, George B., Kluge, Schlicht, and Smolin. 3,017,430.
Atwell, Harold V. 3,017,244.
Beavon, David K. 3,052,743.
Bennett, Edward O. 3,033,785.
Bennett, Edward O. 3,039,960.
Bishop, Arthur L. 3,068,170.
Broussard, Frank P. 3,069,141.
Caldwell, Ellsworth E. 3,040,211.
Cason, Lloyd D., and Dugas. 3,048,227.
Chafetz, Harry. 3,036,126.
Chafetz, Harry. 3,036,127.
Chafetz, Harry, and Eckert. 3,021,203.
Chafetz, Harry, and Eckert. 3,021,205.
Chafetz, Harry, Eckert, and Arkell. 3,036,904.
Chapman, Ronald W., Rulborn, and Dille. 3,044,179.
Chesluk, Ralph P., and Tierney. 3,069,357.
Civerolo, Eusebius L. 3,033,246.
Davis, Charles W. 3,046,905.
Dille, Roger M., Chapman, and Ahlborn. 3,016,986.
Eastman, Du Bois. 3,039,969.
Eastman, Du Bois. 3,022,156.
Eastman, Du Bois. 3,025,149.
Eastman, Du Bois. 3,048,481.
Eastman, DuBois, Dille, and Chapman. 3,069,251.
Eastman, Du Bois, Dille, Taylor, Toettcher, and Jordan. 3,048,540.
Eastman, Du Bois, and Schlinger. 3,017,345.
Eastman, Du Bois, and Schlinger. 3,041,948.
Eckert, George W. 3,055,746.
Egan, Edmond F. 3,068,355.
Egan, Edmond F., and Hoch. 3,016,767.
Francis, Stanley A. 3,048,699.
Friedman, Louis D., and Gaucher. 3,051,644.
Friedman, Louis D., Rambo, and Estes. 3,025,231.
Gardner, Thomas P. 3,048,300.
Gross, Howard H., and Kiersted. 3,015,545.
Grossman, George J., Jr. 3,057,409.
Hall, Hugh E., Jr. 3,016,960.
Harlan, Don L., Battle, and Allen. 3,019,838.
Heisig, Theodore C., and Keating. 3,050,466.
Heisler, Robert Y., and Eckert. 3,015,547.
Heisler, Robert Y., and Hess. 3,068,305.
Heisler, Robert Y., Hess, Eckert, and Ruidisch. 3,055,934.
Hencke, William R., McBurnett, and Badgett. 3,015,624.
Henry, Clemence J., and Tierney. 3,039,967.
Herzog, Gerhard. 3,062,315.
Hopkins, Stephen. 3,049,299.
Hubby, Laurence M. 3,040,308.
Huff, O. C., and Stanley. 3,048,280.
Huff, O. C., and Stanley. 3,055,695.
Itria, Oswald A. 3,048,235.
Itria, Oswald A., and Patrick. 3,050,149.
Jones, Hershul T. and J. M., Jr. 3,020,886.
Jones, James M., Jr. 3,024,642.
Jones, James M., Jr. 3,024,643.
Jones, James M., Jr. 3,025,232.
Jordan, William E., Jr. 3,069,356.
Kirkwood, George B., and Greene. 3,036,903.
Kluge, Herman D., Kreuz, and Wiley. 3,069,355.
Kluge, Herman D., Wisner, and Lacoste. 3,017,405.
Lea, Norman J. 3,036,523.
Lee, Burton D. 3,050,148.
Lee, Burton D. 3,063,034.
Lee, Burton D., and Wilkinson. 3,040,294.
Lefever, Robert A. 3,034,888.
Ludeman, Clifford G. 3,024,612.
Lyons, Joseph F., and Odell. 3,025,238.
Mazzagatti, Roy P. 3,051,927.
McKay, Alexander S., and Hall. 3,016,961.
Mitch, Francis J., and Landau. 3,051 236.
Mitchell, John J., and Kinsella. 3,039,975.
Morris, John R., Schlicht, Adams, and Lawrence. 3 017,361.
Myers, Charles E., and Linson. 3,016,776.
Nagle, Richard E. 3,052,245.
Naul, Robert F., and De Fore. 3,068,884.
Newman, Stanley R., Vermillion, Bailey, and Alpert. 3 031,279.
Nolan, John T., Jr., and Chafetz. 3,024,226.
Oosterhout, Johan C. D. 3,048,541.
Pelton, Walter S., and Odell. 3,068,174.
Pliskin, William A. 3,016,800.
Ray, Watson A., and Ryer. 3,027,316.
Richards, Thomas S., and Howard. 3,048,035.
Riordan, Michael D., and Franz. 3,039,954.
Roach, James R., and Crookshank. 3,068,175.
Roach, James R., and Jordan. 3,068,173.
Sage, Bruce H. 3,044,858.
St. John, Osie O. 3,023,808.
Schlicht, Raymond C., and Kluge. 3,057,896.
Schlinger, Warren G., and Eastman. 3,044,951.
Smith, Randlow. 3,068,307.

Texaco Inc.: *See*—Continued
Stelzer, Roland B., Grossman, and Heath. 3,063,150.
Sweeney, William M. 3,035,075.
Sweeney, William M., and Patterson. 3,061,614.
Tierney, Raymond B., and Krug. 3,048,542.
Tothill, Charles E. B. 3,024,660.
Trow, Richard F. 3,038,948.
Truitt, James K. 3,015,629.
Waldroop, Dee B. 3,021,425.
Walker, Hugh O., Jr. 3,025,125.
Walker, Hugh O., Jr., Press, and Lee. 3,047,965.
Ward, Robert E. 3,038,144.
Weiss, Walter J. 3,034,984.
Wiley, Morris A. 3,055,828.
Wiley, Morris A., and Kluge. 3,055,829.
Wood, George M. 3,021,426.
Woodle, Robert A. 3,017,344.
Texama Ltd.: *See*—
Leybourne, Harold S. 3,066,513.
Texan Corp., The: *See*—
Lilleberg, Richard N. 3,053,063.
Texas Butadiene & Chemical Corp.: *See*—
Muskat, Irving E. 3,046,246.
Texas Gulf Sulphur Co.: *See*—
Mayfield, Alfred L., and Staffa. 3,026,261.
Texas Industries, Inc.: *See*—
Valore, Rudolph C., Jr. 3,027,290.
Texas Instruments Inc.: *See*—
Adcock, Willis A., and Sangster. 3,020,128.
Allen, Chester C., Jr. 3,065,115.
Anderson, Robert E. 3,025,439.
Anderson, Robert E., and Little. 3,041,213.
Anderson, Robert E., and Little. 3,043,725.
Appleton, David B., and Butts. 3,031,565.
Arey, Ralph G. 3,022,402.
Arey, Ralph G., and Clarke. 3,042,776.
Bailey, Wilburn R., and Hoch. 3,064,897.
Baker, Buford M. 3,059,218.
Baum, Joseph V., and Roop. 3,059,465.
Berkshire, Robert H. 3,042,755.
Berkshire, Robert H. 3,047,318.
Berkshire, Robert H., and Jones. 3,069,755.
Biard, James R. 3,037,172.
Biard, James R. 3,061,799.
Bickel, Richard L. 3,031,628.
Bickel, Richard L., Brooke, Day, McDonald, Millis, and Nygaard. 3,039,604.
Birdwell, James A. 3,055,427.
Broadley, William A., and Jastram. 3,023,350.
Carroll, Paul E. 3,051,907.
Cornelison, Boyd. 3,040,887.
Crawford, Duncan C. 3,056,094.
Damrel, John B., Jr. 3,031,125.
Doan, David B. 3,022,457.
Drollinger, Clarence O., and Yarnall. 3,017,595.
English, James W., and Irwin. 3,059,157.
Epstein, Henry D. 3,021,405.
Epstein, Henry D. 3,023,287.
Epstein, Henry D. 3,040,288.
Epstein, Henry D. 3,061,699.
Epstein, Henry D. 3,066,205.
Epstein, Henry D. 3,067,306.
Evans, Arthur D. 3,070,762.
Evans, Arthur D., and Webster. 3,050,638.
Finley, James E. 3,031,620.
Flanagan, Charles D. 3,033,959.
Flanagan, Charles D. 3,062,937.
Gerrard, John A. F. 3,054,473.
Gerrard, John A. F., and Reynolds. 3,035,771.
Gibbs, Thomas E., and Hedeman. 3,028,598.
Grenier, Aime J. 3,061,258.
Hicks, John E., and Sigler. 3,041,133.
Horton, Claude W. 3,056,945.
Jones, Hal J., and Bucy. 3,018,468.
Jones, Hal J., and Morrison. 3,018,962.
Jones, Morton E. 3,021,462.
Korbitz, Norman D., and Staples. 3,032,941.
Lawrence, Billy L. 3,021,470.
MacDonald, James R. 3,061,675.
Mace, James W. 3,061,789.
Martel, Bob E. 3,069,493.
Matzen, Walter T. 3,061,800.
Matzen, Walter T., and Biard. 3,046,487.
Mehal, Edward W. 3,039,755.
Milam, David L. 3,021,460.
Milam, David L. 3,021,595.
Millis, Edwin G. 3,022,000.
Millis, Edwin G. 3,022,454.
Millis, Edwin G. 3,063,050.
Nygaard, James L. 3,018 373.
Nygaard, James L., and Webster. 3,022,421.
Pflumm, Heinz R. 3,059,331.
Pflumm, Heinz R., and Buchinski. 3,057,049.
Phillips, James L., Jr. 3,036,223.
Ray, Jon P. 3,063,631.
Runyan, Walter R. 3,025,146.
Ryan, Thomas J. 3,060,296.
Sangster, Raymond C. 3,044,491.
Sarrafian, George P. 3,068,452.
Skelton, Charles W. 3,069,557.

Texas Instruments Inc.: *See*—Continued
Snyder, John L., III. 3,032,696.
Stewart, Richard F. 3,034,871.
Vaughan, Victor G. 3,041,515.
Vergez, Jules P., Jr. 3,064,175.
Walters, Geoffrey K. 3,049,686.
Webster, Roger R. 3,035,170.
White, Abraham P., and Epstein. 3,031,551.
Texas Mosaic Co.: *See*—
Bond, Donald H. 3,025,464.
Colvin, Ellie H. and I. L. 3,025,625.
Texas Pipe Line Co., The: *See*—
Anderson, Gran V. 3,028,879.
Bagwell, Marshall U. 3,060,964.
Bagwell, Marshall U., and Bond. 3,028,744.
Scott, John R., and Bond. 3,038,732.
Texas Plastics Materials Supply Co.: *See*—
Bender, Richard B. 3,046,213.
Texstar Corp., The: *See*—
Alcorn, Irwin W., Graham, and Christenson. 3,054,267.
Polk, Isaac H. 3,037,365.
Textiel Machines Reading N.V.: *See*—
Van Leeuwen, Johannes P. C. 3,053,496.
Textil-Apparatefabrik A.G.: *See*—
Horak, Heinz. 3,026,913.
Textiluna Corp.: *See*—
Ernst, Robert. 3,024,260.
Ernst, Robert, and Comar. 3,046,231.
Textile Machine Works: *See*—
Anke, Rudolph. 3,030,787.
Hohl, Carl E. 3,059,507.
Hohl, Carl E., and Schulze. 3,059,979.
Janda, Richard M., and Moyer. 3,046,761.
Levin, Nathan. 3,018,647.
Levin, Nathan. 3,026,698.
Moyer, James D. 3,017,757.
Moyer, James D. 3,048,990.
Textile Mills Co.: *See*—
Goldsmith, Kurt. 3,049,826.
Textile Rubber Co., Inc.: *See*—
Albert, John R. 3,016,763.
Textile Sales Co.: *See*—
Miller, Samuel E. 3,052,890.
Textilmaschinen Eduard Kusters: *See*—
Küsters, Eduard. 3,023,695.
Kusters, Eduard, and Appenzeller. 3,046,637.
Textor, Clinton K., to The Bauer Bros. Co. Method and apparatus for producing wood pulp. 3,016,324, 1–9–62, Cl. 162—24.
Textor, Clinton K., ½ to The Bauer Bros. Co., and ½ to FMC Corp. Pulp bleaching. 3,023,140, 2–27–62, Cl. 162—24.
Textor, Hans D.: *See*—
Prang, Peter, and Textor. 3,019,095.
Textor, Hans-Dieter: *See*—
Münster, Josef, and Textor. 3,047,376.
Textor, Hans-Dieter. Process for the generation of gaseous fuel containing carbon-monoxide. 3,066,019, 11–27–62, Cl. 48—203.
Textron Electronics, Inc.: *See*—
Hajian, Gabriel. 3,056,910.
Hajian, Gabriel. 3,056,918.
Maki, Charles E. 3,015,229.
Maki, Charles E. 3,054,097.
Mann, Alfred E. 3,064,136.
Usher, Theron, Jr. 3,026,480.
Textron, Inc.: *See*—
Batchelder, James W. 3,047,118.
Bilgard, Erling J. 3,056,569.
Buckminster, Lloyd A. 3,049,766.
Bvam, Erwin B. 3,056,981.
Chatfield, Henry B. 3,036,318.
Dorst, Richard W. 3,021,535.
Duhamel, Maurice T. 3,054,177.
Erle, Donald Z. 3,033,219.
Hancock, Virgil. 3,031,926.
Handschumaker, Edward, and Hoyer. 3,069,270.
Oldfield, Andrew H., and Hostetler. 3,020,684.
St. Clair, Theodore A. 3,035,434.
St. Clair, Theodore A., and Fairchild. 3,047,298.
Schroeder, Herbert M., and Waythomas. 3,022,326.
Walters, Glenn A., and Damonte. 3,039,079.
Waythomas, Donald J. 3,022,327.
Welles, Robert D. 3,026,141.
Tex-Tube, Inc.: *See*—
Woolley, Kenneth C. 3,019,520.
Woolley, Kenneth C., and Shaw. 3,070,053.
Teykl, Irvin F.: *See*—
Johnston, Walker F., Jr., and Teykl. 3,024,187.
Tezak, Joseph A. Colostomy appliance. 3,040,745, 6–26–62, Cl. 128—283.
Tezak, Joseph A. Colostomy irrigator. 3,055,365, 9–25–62, Cl. 128—227.
Thacker, Ellis C. Funnel-type cab and stack guard. 3,047,-161, 7–31–62, Cl. 212—59.
Thackrey, James D., to Aerojet-General Corp. Method and means for simultaneously admitting and igniting liquid propellant. 3,038,302, 6–12–62, Cl. 60—35.6.
Thale, Edwin A.: *See*—
Siegel, Walter P. and Thaler. 3,062,163.
Thaler, Leo. Ventilated finger ring. 3,022,648, 2–27–62, Cl. 63—15.
Thaler, Samuel, to Hughes Aircraft Co. Mean level detector. 3,057,995, 10–9–62, Cl. 250—20.
Thaler, Sheldon S.: *See*—
Cohn, Irving H., and Thaler. 3,068,695.
Thalhofer, Albert: *See*—
Kaupp, Josef, Konig, Von Rosenberg, Trager, and Thalhofer. 3,053,681.
Kaupp, Josef, and Thalhofer. 3,062,671.
Thallner, Karl A., to I-T-E Circuit Braker Co. Distribution side opening load break switch. 3,066,209, 11–27–62, Cl. 200—168.
Thalmann, Armin: *See*—
Moser, Richard, Thalmann, and Baumann. 3,054,475.
Tham, Percy, Aktiebolag: *See*—
Stake, Anders G., and Thelning. 3,036,346.
Thanlng, Niels O. Valves for the control of fluid flow. 3,033,-235, 5–8–62, Cl. 137—625.28.
Thar, William, Jr. Clamp for holding chain saws for sharpening. 3,029,663, 4–17–62, Cl. 76—78.
Tharp, Homer R. Portable round toilet building. 3,066,311, 12–4–62, Cl. 4—3.
Tharpe, Verle M.: *See*—
McAninch, Herbert A., and Tharpe. 3,053,103.
Thassy, Michael G., to International Harvester Co. Preloaded piston. 3,066,003, 11–27–62, Cl. 309—14.
Thatcher, Charles J., and E. Q. Moses. Ultrasonic slicing tool and method. 3,031,804, 5–1–62, Cl. 51—59.
Thate, Kurt: *See*—
Neudecker, Karl, and Thate. 3,069,988.
Thaw, Norman L., to Norrich Plastic Corp. Safety plug lock. 3,067,402, 12–4–62, Cl. 339—92.
Thaxton, Karl L.: *See*—
Alfaya Raymond, Landskroener, and Thaxton. 3,047,221.
Thayer, Arthur G.: *See*—
Carson, Frank J., and Thayer. 3,067,853.
Thayer, Charles E.: *See*—
Horner, Clifford E., Quinn, and Thayer. 3,046,202.
Thayer, Charles V.: *See*—
Grobey, Paul A., Lovely, and Thayer. 3,023,552.
Thayer, Helen I.: *See*—
Hartle, Robert J., and Thayer. 3,035,969.
Thayer, Helen I., to Gulf Research & Development Co. Lubricating oil composition. 3,031,401, 4–24–62, Cl. 252—46.7.
Thayer, Helen I., to Gulf Research & Development Co. Boron containing phosphorus esters and process for preparation. 3,047,607, 7–31–62, Cl. 260—461.
Thayer, Inc.: *See*—
Shaw, Harold F. 3,063,065.
Thayer, Jean M.: *See*—
Fearon, Robert E., and Thayer. 3,019,337.
Thayer, Louis C., and M. W. Greene, to Beckman Instruments, Inc. Pressure compensation for gas analyzers. 3,031,882, 5–1–62, Cl. 73—27.
Theaston, George W. Boat. 3,040,344, 6–26–62, Cl. 9—6.
Theenhausen, Heinrich: *See*—
Wank, Otto, and Theenhausen. 3,043,253.
Thees, Richard, to Leybold Anlagen Holding A.G. Device for drawing off gaseous components from a gas-vapour mixture. 3,059,396, 10–23–62, Cl. 55—189.
Theilacker, Helmuth, and R. V. Jackson. Process for producing synthetic anhydrite. 3,024,123, 3–6–62, Cl. 106—109.
Theiler, Joseph C.: *See*—
Curry, Cecil B., Haley, and Theiler. 3,049,467.
Theilig, Arthur W.: *See*—
Hazen, Gretzolon L., and Theilig. 3,056,553.
Theiling, Louis F., Jr.: *See*—
Carter, Clare A., Theiling, and Knopf. 3,042,725.
Theiling, Louis F., Jr., and J. F. Lacount, to Union Carbide Corp. Process for the production of 1,2,3-trichloropropene. 3,028,439, 4–3–62, Cl. 260—654.
Thelmer, Oscar. Turbines. 3,026,086, 3–20–62, Cl. 253—39.15.
Thelning, Curt L.: *See*—
Stake, Anders G. and Thelning. 3,036,346.
Then, Joseph L.: *See*—
Parsons, Floyd B., and Then. 3,017,157.
Thenander, John: *See*—
Larsson, Lars, and Thenander. 3,034,702.
Theobald, Donald D. Marking apparatus. 3,051,956, 8–28–62, Cl. 346—141.
Theobald, Robert W.: *See*—
House, James G., and Theobald. 3,037,252.
Theodorsen, Theodore, to Republic Aviation Corp. Shock wave control mechanism. 3,032,976, 5–8–62, Cl. 60—35.6.
Theodoseau, Nicholas, G. J. Kahan, E. M. Da Silva, and F. S. de Cormier, to International Business Machines Corp. Substrate processing apparatus. 3,023,727, 3–6–62, Cl. 118—9.
Theodosiou, Emmanuel, to Cutting Room Appliance Corp. Fold retaining device for cloth laying machines. 3,067,996, 12–11–62, Cl. 270—31.
Therachemie Chemisch Therapeutische Gesellschaft m.b.H.: *See*—
Schwartz, Otto, and Schnurch. 3,055,897.
Theriault, Gerald E., to Radio Corp. of America. Signal translating circuit. 3,061,786, 10–30–62, Cl. 325—427.
Theriault, Gerald E., to Radio Corp. of America. Signal detectors. 3,061,790, 10–30–62, Cl. 329—150.
Theriot, Alfred J. Ornamental buttoncover. Re. 25,178, 5–29–62, Cl. 40—315.

Therlkeld, John H.: *See*—
Harmes, Oren B., Therlkeld, and Deal. 3,058,668.
Thermal Closures & Containers Ltd.: *See*—
Saunders, Ralph. 3,029,968.
Thermal Dynamics Corp.: *See*—
Browning, James A. 3,027,446.
Browning, James A. 3,047,709.
Browning, James A., and Harrington. 3,027,447.
Browning, James A., and Harrington. 3,061,710.
Thermal Inc.: *See*—
Norton, William H. 3,045,098.
Thermal Mfg. Co.: *See*—
Schwing, Russell L. 3,050,833.
Thermal Research & Engineering Corp.: *See*—
Bitterlich, Gordon M. 3,042,105.
Thermet, Robert, and L. Parvi, to Societe d'Electro-Chimie d'Electro-Metallurgie et des Acieries Electriques d'Ugine. Preparation of poly-chlorinated diphenyl derivatives. 3,029,295, 4–10–62, Cl. 260—649.
Thermet, Robert, and L. Parvi, to Societe d'Electro-Chimie d'Electro-Metallurgie et des Acieries Electriques d'Ugine. Simultaneous manufacture of tri- and tetrachlorethylene. 3,029,299, 4–10–62, Cl. 260—654.
Thermindex S.A.: *See*—
Gruber, Theophile. 3,043,931.
Thermo-Chemical-Development Co., Abtellung Fuer Glasbau: *See*—
Partsch, Ernst. 3,054,153.
Thermo-Craft Corp.: *See*—
Fischer, Harry C. 3,019,278.
Thermo-Craft Electric Corp.: *See*—
Fischer, Harry C. 3,056,879.
Therm-O-Disc, Inc.: *See*—
Bolesky, John D. 3,029,329.
Thermo Dynamics Corp.: *See*—
Valentine, George E., and Eubanks. 3,054,443.
Thermo Electron Engineering Corp.: *See*—
Hatsopoulos, George N., and Kaye. 3,054,914.
Thermo Power, Inc.: *See*—
Imelmann, Henry L. 3,064,063.
Thermotank Inc.: *See*—
Baars, William E., and Bednarz. 3,037,528.
Davidson, Charles A. 3,031,944.
Thermo-Technical Development Ltd.: *See*—
Lowe, Walter M., and Squirrel. 3,035,810.
Thermway Industries, Inc.: *See*—
Needham, Basil A. 3,057,989.
Thes de l'Elephant, Societe des: *See*—
Gallet, René. 3,022,620.
Thesing, Jan, G. Mohr, and G. Semler, to Rutgerswerke-Aktiengesellschaft. Process for preparing indoles substituted in the benzene ring. 3,037,992, 6–5–62, Cl. 260—319.
Theuer, Johann. Prime mover with automatic brake. 3,068,-975, 12–18–62, Cl. 192—8.
Theuerer, Henry C., to Bell Telephone Laboratories, Inc. Method of processing semiconductive materials. 3,060,123, 10–23–62, Cl. 252—62.3.
Theurer, Harold. Automobile visor supportable rack. 3,019,-908, 2–6–62, Cl. 211—50.
Theurer, Josef: *See*—
Plasser, Franz, and Theurer. 3,016,023.
Plasser, Franz, and Theurer. 3,041,982.
Plasser, Franz, Theurer, and Folser. 3,064,428.
Thevenaz, Jean, to Paillard S.A. Flexible head mechanism guided by tape movement. 3,031,531, 4–24–62, Cl. 179—100.2.
Thevenaz, Jean, to Paillard S.A. Device for the sound reproduction of cinematographic films. 3,050,227, 8–21–62, Cl. 226—195.
Thevis, Paul, to Olympia Werke A.G. Tens-transfer arrangement for calculating machines. 3,034,716, 5–15–62, Cl. 235—137.
Thew Shovel Co., The: *See*—
Bowman, Spencer. 3,019,913.
Bowman, Spencer. 3,021,015.
Bowman, Spencer. 3,054,300.
Cimino, Charles. 3,036,650.
Noll, George C. 3,049,252.
Risto, William L. 3,051,325.
Thibault, Gilbert O. Combination board and card game. 3,033,572, 5–8–62, Cl. 273—135.
Thibault, Harrison N., to Draper Corp. Replenishing mechanism for looms. 3,025,888, 3–20–62, Cl. 139—257.
Thibault, Harrison N., and J. A. Cugini, to Draper Corp. Replenishing mechanism for looms. 3,023,788, 3–6–62, Cl. 139—257.
Thibault, Joseph. Mop head construction. 3,065,484, 11–27–62, Cl. 15—229.
Thibo, Kenneth R.: *See*—
Monroe, Charles Z., Egleston, and Thibo. 3,031,811.
Thibodeau, Arnold J.: *See*—
Freer, John E., and Thibodeau. 3,041,484.
Thiebaut, Roger P. J. G., and Y. P. M. Etienne, to Eastman Kodak Co. Polyesters derived from dimethylmalonic acid and diphenols. 3,043,799, 7–10–62, Cl. 260—47.
Thieblot, Armand J., and R. W. Davis, to Fairchild Stratos Corp. Projectile launching mechanism. 3,056,335, 10–2–62, Cl. 89—1.5.
Thiegs, Bernard J., to The Dow Chemical Co. Stabilized foam-providing composition. 3,022,251, 2–20–62, Cl. 252—307.
Thiel, George E.: *See*—
Tenison, Earnest M., and Thiel. 3,053,422.
Thiel, Johann, and R. Beyer, to E. F. Kress, Sohne. Web spreading device. 3,060,545, 10–30–62, Cl. 26—63.
Thiel, Otto, to Midwest Supply and Mfg. Co. Double end tube deburring machine. 3,044,367, 7–17–62, Cl. 90—14.
Thiel, Otto, and H. A. Lane, to Midwest Supply and Mfg. Co. Universally adjustable buffing and like apparatus. 3,039,236, 6–19–62 Cl. 51—99.
Thiel, Robert I. Flat opening book. 3,044,804, 7–17–62, Cl. 281—29.
Thiele, Berthold, to Losenhausenwerk, Dusseldorfer Maschinenbau A.G. Hydraulic alternating-stress device for material-testing units. 3,062,009, 11–6–62, Cl. 60—52.
Thiele, Ernst. Valveless pump. 3,023,708, 3–6–62, Cl. 103—53.
Thiele, Friedrich, to Werner Bahlsen. Apparatus for making continuous strips of pastry, such as wafers. 3,064,590, 11–20–62. Cl. 107—57.
Thiele, Heinz, and A. Ritze, to Zeiss Ikon Aktiengesellschaft. Device for recording switching impulses. 3,026,769, 3–27–62, Cl. 88—28.
Thiele Kaolin Co.: *See*—
Billue, Robert F. 3,058,671.
Thiele, Kurt, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. W-di(pyridyl)-alkane derivatives of 1-aryl-2-amino-alkanes. 3,042,680, 7–3–62, Cl. 260—296.
Thielemann, Rudolf H., to Sierra Metals Corp. Nickel base casting alloy. 3,026,198, 3–20–62, Cl. 75—171.
Thielemann, Rudolf H., to Sierra Metals Corp. Metal alloy. 3,026,199, 3–20–62, Cl. 75—171.
Thielen, Jean B.: *See*—
Andersen, Donald L., and Thielen. 3,019,196.
Thielenhaus, Ernst, to Ernst Thielenhaus Maschinenfabrik. Control system for machine tools. 3,056,319, 10–2–62, Cl. 82—21.
Thielenhaus, Ernst, Maschinenfabrik: *See*—
Thielenhaus, Ernst. 3,056,319.
Thielmann, Paul, to LT-E Circuit Breaker Co. Electromagnetic claw clutches. 3,053,364, 9–11–62, Cl. 192—84.
Thielsch, Helmut J., to Grinnell Corp. Insert welding rings. 3,033,145, 5–8–62, Cl. 113—136.
Thieme, John W. Pressure and flow control valve. 3,028,-877, 4–10–62, Cl. 137—509.
Thier, Richard, to Feldmuhle Papier-und Zellstoffwerke, A.G. Apparatus for detecting imperfections in sheet material. 3,023,900, 3–6–62, Cl. 209—111.5.
Thier, Richard, W. Mayer, and R. Meinl, to Feldmuhle Papier- und Zellstoffwerke A.G. Apparatus for detecting optically ascertainable imperfections on sheet material. 3,061,731, 10–30–62, Cl. 250—219.
Thierfelder, Ervin H.: *See*—
Pink, Chester A., and Thierfelder. 3,058,123.
Thierfelder, Ervin H., to The Englander Co., Inc. Convertible bed. 3,049,723, 8–21–62, Cl. 5—8.
Thierfelder, Ervin H., to The Englander Co., Inc. Furniture structure. 3,055,017, 9–25–62, Cl. 5—2.
Thierfelder, Ervin H., and N. E. Fleming, to The Englander Co., Inc. Convertible sofa. 3,047,886, 8–7–62, Cl. 5—13.
Thierman, Irwin B., to Iron Fireman Mfg. Co. Gyroscope caging means. 3,046,796, 7–31–62, Cl. 74—5.1.
Thiersch, Friedrich: *See*—
Hoffmann, Heinrich, Schmidt, and Thiersch. 3,058,891.
Tchmidt, Josef, Schneider, Thiersch, Knappstein, Stuhrmann, Eickemeyer, and Voll. 3,054,728.
Thiery, Alain P.: *See*—
Verdier-Dufour, Jean F. M., Mesller, and Thiery. 3,059,-672.
Thies, Charles H. Calibrated thin metal lamina antenna. 3,025,524, 3–13–62, Cl. 343—823.
Thiessen, Gilbert, to Koppers Co., Inc. Preparation of concrete containing expanded polymeric particles. 3,021,291, 2–13–62, Cl. 260—2.5.
Thiets, Clyde W., to Minnesota Mining and Mfg. Co. Carton. 3,067,823, 12–11–62, Cl. 229—14.
Thigpen, Ben B.: *See*—
Walling, Orville D., and Thigpen. 3,034,127.
Thilmany Pulp & Paper Co.: *See*—
Schmitt, Milton G. 3,050,424.
Thiokol Chemical Corp.: *See*—
Adams, Victor J., Jr., and Rothmayer. 3,049,868.
Berenbaum, Morris B., and Bertozzi. 3,029,267.
Bohr, Alexander H. 3,039,718.
Borgson, Norman H. 3,065,739.
Cook, George W. 3,051,884.
Corlett, Albert D., Jr., Weinberg, and Goalwin. 3,064,-137.
Elkin, Harold. 3,037,947.
Ellett, Charley H. 3,070,137.
Gardner, David M. 3,037,337.
Goldberg, Lloyd W. 3,039,482.
Goldberg, Lloyd W. 3,065,950.
Gould, Jack R., and Gardner. 3,043,665.
Hosek, William S. 3,038,485.
King, John P. 3,064,221.
Leuchten, William E., and Vondy. 3,036,049.
Lovingham, Joseph J. 3,016,695.
Macatician, John, and Hubard. 3,043,100.
Mann, David J., and Kaufmann. 3,037,846.
Milewski, John V., and Seals. 3,056,279.
Rosenthal, Norman A. 3,070,569.
Sherman, Arthur. 3,049,877.

Thiokol Chemical Corp.: *See*—Continued
Shesta, John. 3,044,257.
Sutton, Ernest S., Jr., Reilly, Berman, and Irwin. 3,025,795.
Thoburn, James M.: *See*—
Jankowski, Conrad M., Hyde, Reynolds, and Thoburn. 3,026,182.
Thoburn, Wilbur C., to Iowa State College Research Foundation, Inc. Method and means for measuring magnetic fields. 3,058,060, 10–9–62, Cl. 324—43.
Thoel, Delmar G. End gate latch and hinge. 3,023,451, 3–6–62, Cl. 16—177.
Tholand, Inc.: *See*—
Palmqvist, Sven R., and Brundin. 3,024,088.
Tholander, Per J. Lockable heel lift arrangement. 3,056,217, 10–2–62, Cl. 36—42.
Tholen, Paul, to Klockner-Humboldt-Deutz Aktiengesellschaft. Combined fluid flow arrangement and engine air cooling system. 3,027,705, 4–3–62, Cl. 60—12.
Tholstrup, Clarence E.: *See*—
Bell, Alan, Knowles, and Tholstrup. 3,038,878.
Guillet, James E., Combs, and Tholstrup. 3,057,810.
Tholstrup, Clarence E., to Eastman Kodak Co. Poly-α-olefins containing a combination of dialkyl-3,3'-thiodipropionates, alkylidenebisphenols and phenyl salicylates. 3,033,814, 5–8–62, Cl. 260—45.85.
Tholstrup, Clarence E., and A. Bell, to Eastman Kodak Co. Poly-α-olefin compositions containing dialkyl-3, 3'-thiodipropionates and alkylated hydroquinone monoglycidyl ethers. 3,016,363, 1–9–62, Cl. 260—45.8.
Thom, Joseph C., to General Precision Inc. Terrain radar simulation. 3,067,525, 12–11–62, Cl. 35—10.4.
Thom, Wenzel W., ½ to C. D. Jones. Handrail assembly. 3,055,640, 9–25–62, Cl. 256—65.
Thoma, Hans. Axial piston hydraulic units. 3,059,432, 10–23–62, Cl. 60—53.
Thoma, Oswald: *See*—
Bowers, Eric H., and Thoma. 3,023,058.
Thoma, Oswald, and E. H. Bowers, to Dowty Hydraulic Units Ltd., and Unipat A.G. Hydraulic apparatus. 3,040,532, 6–26–62, Cl. 60—53.
Thoma, Richard W.: *See*—
Fried, Josef, and Thoma. 3,058,889.
Thoma, Richard W., and J. Fried, to Olin Mathieson Chemical Corp. Δ⁴-pregnene-7α,17α,21-triol-3,20-dione and esters thereof. 3,031,477, 4–24–62, Cl. 260—397.47.
Thoma, Wilhelm, O. Bayer, and H. Rinke, to Farbenfabriken Bayer Aktiengesellschaft. Light-sensitive compounds and their use in the reproduction technique. 3,023,100, 2–27–62, Cl. 96—35.
Thoma, Wilhelm, O. Bayer, and H. Rinke, to Farbenfabriken Bayer Aktiengesellschaft. Soluble polyureas and process for preparing the same. 3,023,193, 2–27–62, Cl. 260—77.5.
Thoma, Wilhelm, and H. Rinke, to Bayer Aktiengesellschaft, Farbenfabriken. Light-sensitive high molecular polycarbonates. 3,043,802, 7–10–62, Cl. 260—47.
Thoma, Wilhelm, and H. Rinke, ½ to Farbenfabriken Bayer Aktiengesellschaft and ½ to Mobay Chemical Co. Light-sensitive water soluble compounds. 3,066,117, 11–27–62, Cl. 260—77.5.
Thomae, Dr. Karl, G.m.b.H.: *See*—
Berg, Alex. 3,058,980.
Fischer, Franz G., Roch, and Kottler. 3,031,450.
Keck, Johannes, and Tronnier. 3,041,245.
Roch, Josef. 3,016,378.
Thomann, Robert, Jr.: *See*—
St. John, Alexander N. T., Thomann, and Titterton. 3,030,253.
Thomas, Alan J.: *See*—
Petrow, Vladimir, Thomas, and Stephenson. 3,028,420.
Thomas, Albert. Currency valuation comparator. 3,065,907, 11–27–62, Cl. 235—86.
Thomas, Albert G. Combination sensitive and power relay. 3,047,692, 7–31–62 Cl. 200—97.
Thomas, Albert G., to Industrial Controls Corp. Anti-backlash devices. 3,055,273, 9–25–62, Cl. 90—22.
Thomas, André, to Societe de Constructions Mecaniques de Stains. Blood pump. 3,020,846, 2–13–62, Cl. 103—37.
Thomas, Andre, to Societe de Constructions Mecaniques de Stains. Apparatus for oxygenating blood. 3,026,871, 3–27–62, Cl. 128—214.
Thomas, Archibald T. Liquid applicator. 3,059,652, 10–23–62, Cl. 132—112.
Thomas, Arthur H., Co.: *See*—
Hug, Theodore. 3,028,476.
Thomas, Arthur M., Jr.: *See*—
Shirley, Marcus B., and Thomas. 3,044,856.
Thomas, Arthur M., Jr., to Esso Research and Engineering Co. Caustic regeneration process. 3,023,084, 2–27–62, Cl. 23—184.
Thomas & Betts Co., The: *See*—
Crimmins, David J. 3,065,444.
Crimmins, David J. 3,065,445.
Curtiss, Lawrence M. 3,052,748.
Kelly, William E., Jr. 3,064,850.
Logan, Maurus C. 3,022,557.
Logan, Maurus C., and Crimmins. 3,019,410.
Lynch, Leslie S., Jr. 3,066,717.
Piasecki, Raymond F. 3,058,087.
Piasecki, Raymond F. 3,061,254.
Thomas, Edward D., Crimmins, and Logan. 3,059,211.
Thomas, Betty S., and M. C. Gwinn. Method and apparatus for dispensing liquids. 3,033,420, 5–8–62, Cl. 222—1.
Thomas, Boyd F., and J. C. Thomas III, to Young Spring & Wire Corp. Method and apparatus for fabricating cellular core material. 3,064,116, 11–13–62, Cl. 219—82.
Thomas, Boyd F., and J. C. Thomas III, to Young Spring & Wire Corp. Apparatus and method for producing honeycomb core material. 3,064,117, 11–13–62, Cl. 219—82.
Thomas, C. S.: *See*—
Reeves, Willard D. 3,017,660.
Thomas, Charles D., to Dynacolor Corp. Automatic stapling machine. 3,029,437, 4–17–62, Cl. 1—333.
Thomas, Charles D. Butt hinge. 3,063,087, 11–13–62, Cl. 16—128.
Thomas, Charles L.: *See*—
Hall, Lewis W., Jr., and Thomas. 3,065,281.
Thomas, Charles L., to Sun Oil Co. Lubricants containing additives. 3,038,857, 6–12–62, Cl. 252—33.
Thomas, Charles L., to Sun Oil Co. Continuous polymerization of olefins using a fixed bed, supported transition metal-organometallic catalyst. 3,047,551, 7–31–62, Cl. 260—88.2.
Thomas, Charles L., A. P. Stuart, and H. M. Khelghatian, to Sun Oil Co. Color stabilized lubricating oil. 3,048,543, 8–7–62, Cl. 252—51.5.
Thomas, Dan W.: *See*—
Boyle, Robert E., Platt, Thomas, and Rhinehart. 3,059,319.
Thomas, David G.: *See*—
Boyle, Willard S., and Thomas. 3,059,117.
Thomas, David G., to Lord Mfg. Co. Damper. 3,031,034, 4–24–62, Cl. 188—1.
Thomas, David G. A.: *See*—
Harlin, Frank, O'Sullivan, Lambeth, and Thomas. 3,031,573.
Thomas, De Loss V., and H. J. Roberts; said Roberts assor. to said Thomas. Aquatic toy. 3,045,636, 7–24–62, Cl. 115—23.
Thomas, Donald E., to Bell Telephone Laboratories, Inc. Null type transistor beta measuring set. 3,025,468, 3–13–62, Cl. 324—158.
Thomas, Donald E., to Bell Telephone Laboratories, Inc. Null type transistor alpha greater than unity measuring set. 3,026,479, 3–20–62, Cl. 324—158.
Thomas, Donald E., to Bell Telephone Laboratories, Inc. Null-type transistor beta measuring set. 3,056,924, 10–2–62 Cl. 324—158.
Thomas, Donald E., to Bell Telephone Laboratories, Inc. Esaki diode negative resistance curve tracer. 3,058,064, 10–9–62, Cl. 324—158.
Thomas, Edward D., D. J. Crimmins, and M. C. Logan, to The Thomas & Betts Co. Electrical connector for flat conductor for flat conductor carriers. 3,059,211, 10–16–62, Cl. 339—126.
Thomas, Edward R. Hand protector. 3,066,306, 12–4–62, Cl. 2—20.
Thomas, Edward R., E. H. Sonnanstine, Jr., and E. J. Carey, to The National Cash Register Co. Multiplier apparatus. 3,047,227, 7–31–62, Cl. 235—153.
Thomas Electronics, Inc.: *See*—
Navatta, Cono S., Smith, and Etlinger. 3,018,400.
Thomas Engineering Co., Inc.: *See*—
Casey, Thomas J. 3,021,783.
Thomas, Eugene P., to Westinghouse Electric Corp. Radioactive source holder. 3,048,701, 8–7–62, Cl. 250—106.
Thomas, Frank M.: *See*—
Ingraham, Robert C., and Thomas. 3,065,525.
Thomas, Frederick A. Exposure meter for photography. 3,049,050, 8–14–62, Cl. 88—23.
Thomas, Friedrich, F. Rodis, and A. Hinz, to Knapsack-Griesheim Aktiengesellschaft. Charging device for sintering bands. 3,067,857, 12–11–62, Cl. 198—112.
Thomas, George R.: *See*—
Happell, John J., Thomas, Denise, and Bunts. 3,018,239.
Thomas, George W., to Wood Conversion Co. Surface treatment of wet felts. 3,042,577, 7–3–62, Cl. 162—115.
Thomas, Gerald D.: *See*—
Lowe, John J., and Thomas. 3,051,306.
Thomas, Germaine: *See*—
Wyraud, Charles, Prettre, Trambouze, Lenoir, Thomas, and Plurien. 3,022,187.
Thomas, Gordon H.: *See*—
Fried, Josef, and Thomas. 3,043,855.
Thomas, Harry W.: *See*—
Da Lee, William W., and Thomas. 3,038,555.
Thomas, Harry W., and W. W. Da Lee, to William A. Da Lee Inc. Retractable safety landing for an access tube. 3,044,572, 7–17–62, Cl. 182—83.
Thomas, Henry A., to Ethyl Corp. Extrusion apparatus. 3,068,515, 12–18–62, Cl. 18—12.
Thomas, Herbert G., H. J. Cornish, C. C. Shenkle, and B. Last, to Rockwell Mfg. Co. Meter register. 3,045,486, 7–24–62, Cl. 73—273.
Thomas, Herman J., to General Motors Corp. Vehicle closure check and support means. 3,064,846, 11–20–62, Cl. 217—60.
Thomas, Horace F., and J. M. Adams. Apparatus for spraying viscous fluids. 3,032,278, 5–1–62, Cl. 239—422.
Thomas, Howard M., and C. A. Mellon, to The Wurlitzer Co. Coin controlled phonograph. 3,042,173, 7–3–62, Cl. 194—15.

Thomas Industries, Inc.: *See*—
Geocaris, Robert S. 3,065,686.
La Force, Walter P., 3,064,698.
McGinty, William K. 3,027,452.
Thomas, Ivan, and J. Lachiche, to Novacel. Apparatus for making artificial chamois. 3,060,504, 10–30–62, Cl. 18—12.
Thomas, Jacob E., Jr., to The Bendix Corp. Transistor. 3,063,129, 11–13–62, Cl. 29—25.3.
Thomas, James A., to Burroughs Corp. Accounting machine with card punch adjunct. 3,023,952, 3–6–62, Cl. 235—61.1.
Thomas, James A., to Burroughs Corp. Typewriter accounting machine with card punch adjunct. 3,052,336, 9–4–62, Cl. 197—1.6.
Thomas, James C., III: *See*—
Thomas, Boyd F., and J. C. Thomas III. 3,064,116.
Thomas, Boyd F., and J. C. Thomas III. 3,064,117.
Thomas, James G. Power controlled outriggers for motor cranes. 3,064,827, 11–20–62, Cl. 212—145.
Thomas, James R.: *See*—
Weber, Joseph A., Thomas, and Jackson. 3,052,284.
Thomas, James R., to J. A. Weber. Manually actuated precharging means for oscillating tool. 3,063,322, 11–13–62, Cl. 83—587.
Thomas, Joe E.: *See*—
Stram, George, McIntyre, and Thomas. 3,015,395.
Thomas, John A., to Barber-Colman Co. Proportioning type of condition control system. 3,069,087, 12–18–62, Cl. 236—15.
Thomas, John B., and J. W. Drenning, to Koppers Co., Inc. Electrostatic precipitator. 3,059,394, 10–23–62, Cl. 55—105.
Thomas, John C.: *See*—
Alderson Thomas, and Thomas. 3,040,090.
Benson, Richard E., and Thomas. 3,052,704.
Thomas, John C., to E. I. du Pont de Nemours, and Co. Cyclomatic chromium (III) chelate halogenides. 3,030,399. 4–17–62. Cl. 260—438.
Thomas, John C., to Phillips Petroleum Co. Sampling system for ammonia-containing gases. 3,049,909, 8–21–62, Cl. 73—23.
Thomas, John H., and A. Marzocchi, to Owens-Corning Fiberglas Corp. Composite fibrous glass bodies. 3,044,146, 7–17–62. Cl. 28—78.
Thomas, John L., to Monsanto Chemical Co. Shipping carton. 3,059,825, 10–23–62, Cl. 229—15.
Thomas, John P.: *See*—
Fraser, Alton W., and Thomas. 3,015,793.
Thomas, John R.: *See*—
DeVries, Louis, and Thomas. 3,061,599.
Fisher, Arthur L., Fountain, Schweizer, and Thomas. 3,036,143.
Thomas, John W., to The Cleveland Vibrator Co. Vibrated conveyor. 3,032,175, 5–1–62, Cl. 198—220.
Thomas, John W., and A. G. Osborne, to Aluminum Co. of America. Method and means for applying closures to containers. 3,039,247, 6–19–62, Cl. 53—42.
Thomas, Joseph, to Valve. 3,037,520, 6–5–62. Cl. 137—270.
Thomas, Lawrence E. Christmas tree stand. 3,025,029, 3–13–62, Cl. 248—44.
Thomas, Leonard C.: *See*—
Voege, James E., and Thomas. 3,046,847.
Thomas, Leroy S.: *See*—
Rosanoff, Richard A., and Thomas. 3,015,142.
Thomas, Lucius P., Jr., C. W. Hoyt, and C. C. Iden, to Radio Corp. of America. Remote control system. 3,040,298, 6–19–62. Cl. 340—171.
Thomas, Maxwell M.: *See*—
Tolbert, Eugene, and Thomas. 3,045,312.
Thomas, Orrin H., to J. G. Saricks. Ignition timer for internal combustion engines. 3,025,362, 3–13–62, Cl. 200—30.
Thomas, Owen H.: *See*—
Burk, Emmett H., Jr., and Thomas. 3,041,272.
Thomas, Owen H., and W. P. Hettinger, Jr., to Sinclair Refining Co. Process for nuclear alkylation of aromatic hydrocarbons. 3,017,441, 1–16–62. Cl. 260—671.
Thomas, Paul P., to American Metal Products Co. Low friction hammered bearing. 3,017,209, 1–16–62. Cl. 287—87.
Thomas, Paul P., to American Metal Products Co. Insulated bushing. 3 039 831, 6–19–62, Cl. 308—26.
Thomas, Paul P., to American Metal Products Co. Preloaded ball joint assembly. 3,058,765, 10–16–62. Cl. 287—90.
Thomas, Paul P., to American Metal Products Co. Sliding ball joint assembly. 3,059,951, 10–23–62, Cl. 287—90.
Thomas, Ralph. Gripping tool jaws. 3,028,190, 4–3–62. Cl. 294—118.
Thomas, Ralph B., to Sylvania Electric Products Inc. Method of staking and forming tabs. 3,068,555, 12–18–62, Cl. 29—155.5.
Thomas, Ralph H., to Bristol-Myers Co. Self-suspending box. 3,027,064. 3–27–62. Cl. 229—43.
Thomas, Ralph H., to Bristol-Myers Co. Applicator dispensers having rotatable discs. 3,063,085, 11–13–62, Cl. 15—571.
Thomas, Randal H.: *See*—
Koblenz, Avrom M., Krishnaswamy, and Thomas. 3,039,306.
Thomas, Ray: *See*—
Schumacher, Bernard P., Feller, Kubisiak, and Thomas. 3,033,738.
Thomas, Raymond J., and M. G. Tesi, to Engelhard Hanovia, Inc. Housing for discharge tube. 3,035,164, 5–15–62, Cl. 240—11.4.
Thomas, Rex A. Fishing rod holder. 3,058,250, 10–16–62, Cl. 43—17.
Thomas, Richard E.: *See*—
Raczynski, Walter A., Thomas, and Uhl. 3,049,994.
Thomas, Roany B., and H. N. Young, to Hanes Hosiery Mills Co. Knitted fabric pick testing device. 3,044,293, 7–17–62, Cl. 73—159.
Thomas, Robert J. Disposable car tray. 3,048,458, 8–7–62, Cl. 311—22.
Thomas, Robert J. Disposable car tray. 3,052,506, 9–4–62, Cl. 311—22.
Thomas, Robert M., to Olin Mathieson Chemical Corp. Bleaching cellulosic materials. 3,063,782, 11–13–62, Cl. 8—108.
Thomas, Robert M., and G. K. Weisse, to Olin Mathieson Chemical Corp. Bis(2-methoxyethyl)ether production. 3,020,316, 2–6–62. Cl. 260—615.
Thomas, Robert W.: *See*—
Cataldo, John B., Thomas, Mead, and Shackman. 3,048,672.
Thomas, Robert W., to General Motors Corp. Stage car turntable. 3,045,972, 7–24–62, Cl. 254—87.
Thomas, Royal D., Jr.: *See*—
Norcross, James E., and Thomas. 3,059,093.
Wooding, Walter H., Thomas, and Norcross. 3,046,386.
Thomas, Samuel D., and M. I. Taylor, to Rolls-Royce Ltd. Steering deflector for a turbo-fan engine. 3,041,830, 7–3–62. Cl. 60—35.55.
Thomas, Stanley N. G., and A. French, to Whessoe Ltd. Welding apparatus. 3,033,975, 5–8–62, Cl. 219—125.
Thomas, Telfer L., to General Aniline & Film Corp. Pentaerythritol esters. 3,060,221, 10–23–62, Cl. 260—471.
Thomas, Thomas G.: *See*—
Day, Kenneth B., Taylor, and Thomas. 3,042,452.
Thomas, Thomas G., to General Motors Corp. Wheel cover. 3,029,909, 4–17–62. Cl. 188—264.
Thomas, Thomas G., W. E. Taylor, and T. Embree, to General Motors Corp. Fluid cooled vehicle drum brake. 3,018,853, 1–30–62, Cl. 188—78.
Thomas, Thomas J. Electric lighting units. 3,061,715, 10–30–62, Cl. 240—10.
Thomas, Thomas M., Jr., to Lane-Wells Co., a Division of Dresser Industries, Inc. Bridging plug. 3,061,013, 10–30–62. Cl. 166—204.
Thomas, Thomas R., to Auto Research Corp. Lubrication. 3,029,962, 4–10–62, Cl. 251—121.
Thomas, Thomas R., to Auto Research Corp. Lubrication. 3,052,318, 9–4–62, Cl. 184—7.
Thomas, Tudor L.: *See*—
O'Connor, Francis M., and Thomas. 3,036,984.
O'Connor, Francis M., and Thomas. 3,036,986.
Thomas, Tudor L., to Union Carbide Corp. Method for molecular sieve adsorption and desorption. 3,037,338, 6–5–62, Cl. 183—114.2.
Thomas, Tudor L., Jr.: *See*—
Freeman, Donald C., Jr., and Thomas. 3,032,569.
Thomas, Tudor L., Jr., to Union Carbide Corp. Process for cation separation using zeolitic materials. 3,023,641, 5–8–62, Cl. 23—1.
Thomas, Walker H., to International Business Machines Corp. Computing device. 3,018,959, 1–30–62, Cl. 235—167.
Thomas, Walter M., and A. K. Hoffmann, to American Cyanamid Co. Polymers of a vinylphenyl boronic compound. 3 025,274, 3–13–62, Cl. 260—80.
Thomas, Wendell M., to General Motors Corp. Refrigerating apparatus. 3,045,446, 7–24–62, Cl. 62—138.
Thomas, William A., to Marvel Engineering Co. Automatic filter signal assemblies. 3,056,379, 10–2–62, Cl. 116—70.
Thomas, William E.: *See*—
Reynolds, Eugene E., Lindberg, Avery, Munzing, and Thomas. 3,019,971.
Reynolds, Eugene E., and Thomas. 3,043,502.
Thomas William R.: *See*—
Helton, Eugene L., and Thomas. 3,038,267.
Thomas, William R. Hair clipper attachment. 3,060,574, 10–30–62. Cl. 30—202.
Thomas, William W., to W. Waterman. Counterbalance valves and the like. 3,015,316. 1–2–62. Cl. 121—46.4.
Thomasko, Elmer J., to Amherst Metal Products, Inc. Motor brush holder. 3,050,649, 8–21–62, Cl. 310—247.
Thomasma, Charles W.: *See*—
Thomasma, John C. and C. W. 3,037 717.
Thomasma, John C. and C. W. to Sanitor Mfg. Co. Dispenser for sheet material. 3,037,717, 6–5–62, Cl. 242—55.3.
Thomason Roy W. Toy. 3,037,321, 6–5–62. Cl. 46—220.
Thomason, Thomas H., to Beckman Instruments, Inc. Reversible decimal counter. 3,054,060, 9–11–62, Cl. 328—44.
Thomasson, Richard K.: *See*—
Barnes, Arthur G., Hall, and Thomasson. 3,044,735.
Thome, Paul, to Commissariat a l'Energie Atomique. Methods and devices for performing spectrum analysis, in particular in the far ultraviolet region. 3,049,618, 8–14–62, Cl. 250—49.5.
Thommel, Karl A., and H. Brumme, to Escher Wyss G.m.b.H. Apparatus for intense aeration of liquids. 3,066,921, 12–4–62, Cl. 261—30.
Thommen, Hans, to Brown, Boveri & Cie, Aktiengesellschaft. Compressed air actuated electric switch with power switching contacts and voltage disconnecting contacts. 3,054,877, 9–18–62, Cl. 200—148.
Thompson, Alan T. Novelty shock unit. 3,064,970, 11–20–62, Cl. 272—27.

Thompson, Alexander C., III. Utensil or set of utensils with removable handle. 3,059,809, 10–23–62, Cl. 220—94.
Thompson, Alfred L. : *See*—
Arnold, Nicholas H., and Thompson. 3,019,011.
Thompson, Andrew A. Apparatus for seismic surveying. 3,034,595, 5–15–62, Cl. 181—5.
Thompson, Archibald W., and A. S. Freeborn, to Dussek Bros. & Co. Ltd. Electric cable and condenser insulation including Fischer-Tropsch wax. Re. 25,188, 6–19–62, Cl. 260—27.
Thompson, Arthur V., to United States of America, Navy. Passive radiation proximity detector. 3,036,219, 5–22–62, Cl. 250—220.
Thompson, Bernard H. M., to Hercules Powder Co. Manufacture of resorcinol. 3,043,882, 7–10–62, Cl. 260—621.
Thompson, Bernard H. M., to Hercules Powder Co. Manufacture of resorcinol. 3,043,883, 7–10–62, Cl. 260—621.
Thompson, Bruce R, F. N Hill, and K. L. Smith, to Union Carbide Corp. Coagulation of dispersed carbonaceous material. 3,020,229, 2–6–62, Cl. 210—54.
Thompson, Charles H. Ellipse guide. 3,065,545, 11–27–62, Cl. 33—30.
Thompson, Charles T., to Joy Mfg. Co. Rock drills. 3,065,806, 11–27–62, Cl. 175—124.
Thompson, Clayton C. : *See*—
Barsness, Norris K., Meyer, Johnson, and Thompson. 3,064,423.
Thompson Co., The : *See*—
Van Deberg, Walter H. 3,029,629.
Thompson, Daniel T. Apparatus for making an annulus. 3,031,979, 5–1–62, Cl. 107—8.
Thompson, Don J. : *See*—
Bonham Beckum, William G., and Thompson. 3,040,882.
Thompson, Donald B. : *See*—
Housman, Bennett, Jeffrey, Mayer, and Thompson. 3,045,217.
Thompson, Donald E. Dental means. 3,068,571, 12–18–62, Cl. 32—40.2.
Thompson, Donald E., and H. A. Goddard. Dental means. 3,068,570, 12–18–62, Cl. 32—19.
Thompson, Douglas G. : *See*—
Taylor, Donald L., and Thompson. 3,047,300.
Taylor, Donald L., and Thompson. 3,047,301.
Thompson, Earl A. Pressure fed rocker shoe bearing. 3,023,055, 2–27–62, Cl. 308—73.
Thompson, Earl A. Wheel oscillator. 3,025,643, 3–20–62, Cl. 51—50.
Thompson, Earl A. Spindle. 3,025,646, 3–20–62, Cl. 51—165.
Thompson, Earl A. Timing compensator for hydraulic power transmissions. 3,025,675 3–20–62, Cl. 60—54.5.
Thompson, Earl A. Precision feed mechanism. 3,043,059, 7–10–62, Cl. 51—103.
Thompson, Earl A. Gaging and sorting apparatus. 3,043,428, 7–10–62, Cl. 209—82.
Thompson, Earl A. Metering valve. 3,054,392, 9–18–62, Cl. 123—90.
Thompson, Earl R., Jr., to The Bendix Corp. Electrical connection assembly. 3,022,484, 2–20–62, Cl. 339—129.
Thompson, Elbert O., to Vacudent Mfg. Co. Evacuative suction apparatus. 3,017,886, 1–23–62, Cl. 128—276.
Thompson, Elbert O., and L. N. Bagley said Bagley assor. Vacudent Mfg. Co. Receptacle for sterilization and storage of dental instruments. 3,067,864, 12–11–62, Cl. 206—17
Thompson Electric Co., The : *See*—
Farrington, Robert K. 3,053,979.
Thompson, Elmer D. and L. C. Hansen, to W. A. Sheaffer Pen Co. Pocket clip. 3,027,613, 4–3–62, Cl. 24—11.
Thompson, Elvin T., to Lewis Engines, Inc. Miniature motor vehicle. 3,022,846, 2–27–62, Cl. 180—11.
Thompson, Emil W. : *See*—
Buchanan, Earl H., and Thompson. 3,066,484.
Thompson, Erle C. Fish stringer. 3,031,020, 4–24–62, Cl. 177—129
Thompson, Ernest H., to Automatic Canteen Co. of America. Vending devices. 3,021,030, 2–13–62, Cl. 221—77.
Thompson, Eugène H., to La Telemecanique Electrique. Monitoring circuit for 3-phase supply systems. 3,039,023, 6–12–62 Cl 317—48.
Thompson, Eugene K. Electrically driven farm seeder. 3,035,741, 5–22–62, Cl. 222—178.
Thompson, Floyd L., 35% to T. P. Mahoney. Gear type pump. 3,054,356, 9–18–62, Cl. 103—125.
Thompson, Francis C. L. Weight applicator for use in balancing vehicular tires. 3,017,774, 1–23–62, Cl. 73—487.
Thompson, Francis T. : *See*—
Carroll, James C., and Thompson. 3,018,382.
Carroll, James C., Thompson, and Jones. 3,018,381.
Thompson, Francis T., to Westinghouse Electric Corp. Signal distribution system for distributing intelligence signals from a single source to a plurality of utilization channels. 3,048,824, 8–7–62, Cl. 340—173
Thompson, Fred C., to HRB-Singer, Inc. Broad-band amplifier. 3,064,204, 11–13–62, Cl. 330—54.
Thompson, Frederick C. : *See*—
Latham, Robert, Thompson, Sixsmith, Folkierski, and Pickering. 3,032,727.
Thompson, Gene D., E. W. Hough, and R. C. Lane, to Jersey Production Research Co. Additive for well fracturing fluid. 3,070,545, 12–25–62, Cl. 252—8.55.
Thompson, George V., to Ferguson-Hander Box Co. Carton. 3,057,535, 10–9–62, Cl. 229—39.
Thompson Grinder Co., The : *See*—
Baldenhofer, William G., and Krafft. 3,047,987.
Krafft, Frederick G., and Ernst. 3,015,212.
Thompson, H. L. Fiber Glass Co. : *See*—
Parker, Leon, Wang, and Nordberg. 3,028,286.
Thompson, Hall W., and E. R. Stewart, to Thompson Tractor Co., Inc. Track shoe for crawler type vehicle. 3,047,342, 7–31–62 Cl 305—35.
Thompson, Harold B. : *See*—
Azari, Eric, Gray, Malin, Nelson, and Thompson. 3,029,021.
Thompson, Harold K. : *See*—
Clark, Orville A., Maxwell, and Thompson. 3,038,031.
Thompson, Howard. Lazy susan device. 3,035,707, 5–22–62, Cl. 211—78.
Thompson, Howard G., to Massey-Ferguson Inc. Implement hitch vertically adjustable. 3,039,539, 6–19–62, Cl. 172—448.
Thompson, Howard G., to Massey-Ferguson Inc. Plow standard overload release. 3,061,019, 10–30–62 Cl. 172—269.
Thompson, Howard H., to FMC Corp. Engine starting apparatus. 3,018,768, 1–30–62, Cl. 123—185.
Thompson, Ivan P., and E. H. Mousted, to Union Carbide Corp. Water nozzle. 3,062,456, 11–6–62, Cl. 239—590.
Thompson, J. C., Tool & Die, Inc. : *See*—
Lewis, John M. 3,040,422.
Thompson, James R., to Washington Iron Works. Outrigger-equipped loader-yarder vehicle. 3,062 385, 11–6–62, Cl. 212—145.
Thompson, James R. Cemetery pot and wreath holder. 3,021,947, 2–27–62, Cl. 248—361.
Thompson, Jerome B. Laboratory fume hood. 3,022,718, 2–27–62, Cl. 98—115.
Thompson, John E. : *See*—
Landmann, Wendell A., and Batzer. 3,047,399.
Thompson, John E., 40% to L. Davis. Automatic sanding device for automobiles. 3,034,816, 5–15–62, Cl. 291—15.
Thompson, John J. : *See*—
Knight, Mark B., and Thompson. 3,041,495.
Thompson, John L. : *See*—
Lincoln, Frank H., Jr. Spero, and Thompson. 3,020,297.
Rice, Robert, Sisk, and Thompson. 3,065,849.
Spero, George B., and Thompson. 3,045,031.
Thompson, John W. : *See*—
Bryan, James D., and Thompson. 3 039.204.
Thompson, John W., and J. C. Ownby, to Eastman Kodak Co. Gasoline with copolymeric lead stabilizer and a synergistic modification thereof. 3,033,662, 5–8–62, Cl. 44—62
Thompson, Joseph C. X-ray timing apparatus. 3,069,549, 12–18–62, Cl. 250—105.
Thompson, Josephus B., to Joseph Rogers, Inc. Drum beater. 3,030 847, 4–24–62, Cl 84—422.
Thompson, Josephus B. and J. E. Whitenack, to Joseph Rogers, Inc. Ball and socket joint. 3,059,948, 10–23–62, Cl. 287—12.
Thompson, Kenneth : *See*—
Gallino, Robert, and Thompson. 3,015,581.
Thompson, Kenneth B., to Cunoculars and optical system therefor. 3,051,046, 8–28–62, Cl. 88—39.
Thompson, Kenneth W., R. T. Price, and S. Z. Lewin, to Organon Inc. Electrolytic pH regulator. 3,065,156, 11–20–62, Cl 204—130.
Thompson, Lee L. Apparatus for feeding comminuted material from a hopper. 3,066,831, 12–4–62, Cl. 222—185.
Thompson, Lee L., and I. W. Corder. Seals for rotating shafts. 3,028,181, 4–3–62, Cl. 277—12.
Thompson, Leland E., to Radio Corp. of America. Communication system with compensating means for non-linear amplitude distortions. 3,042,867, 7–3–62, Cl. 325—50.
Thompson, Leon J., to International Business Machines Corp. Regulated power supply. 3,054,939, 9–18–62, Cl. 321—16.
Thompson Leonard H : *See*—
Brunschweiger, Alfred, and Thompson. 3,040,258.
Thompson, Leonard H., to International Business Machines Corp. Apparatus for translating magnetically recorded binary data. 3,064,243, 11–13–62, Cl. 340—174.1.
Thompson, Leonard H., and J. W. Wenner, to International Business Machines Corp. Readback circuit for high-density magnetic bit storage. 3,049,698, 8–14–62, Cl. 340—174.1.
Thompson, Lloyd B. : *See*—
Mayer, Joseph S. 3,038,256.
Thompson, Lyle G., to Burroughs Corp. Magnetic core logical systems. 3,025,501, 3–13–62, Cl. 340—174.
Thompson, Max C., to Chem-Therm Mfg. Co., Inc. Vehicle wheel washer and brush structure. 3,048,866, 8–14–62, Cl. 15—21.
Thompson, Norbert D., to Galleher, Inc. Pliable filler for mask cushioning means. 3,042,538, 7–3–62, Cl. 106—268.
Thompson, Olive. Disposable diaper and rubber panty. 3,049,124, 8–14–62, Cl. 128—287.
Thompson, Orville L., to De Vry Technical Institute, Inc. Electronic instructing device. 3,043,021, 7–10–62, Cl. 35—19.
Thompson, Paige W., and M. D. Tupper, to General Electric Co. Thrust bearing arrangement for rotatable machines. 3,020,105, 2–6–62, Cl. 308—163.
Thompson, Paul. Locked corner box and blank. 3,059,829, 10–23–62, Cl. 229—35.
Thompson, Paul E. : *See*—
Tendick, Frank H., Thompson, and Elslager. 3,017,413.

Thompson, Paul F.: *See*—
Huber, Clarence F., and Thompson. 3,037,029.
Thompson, Ralph A. Tool for reloading shotgun shells. 3,033,070, 5–8–62, Cl. 86—28.
Thompson, Ralph B., to Universal Oil Products Co. Composition of matter. 3,017,422, 1–16–62, Cl. 260—461.
Thompson, Ralph B., to Universal Oil Products Co. Stabilization of rubber. 3,061,586, 10–30–62, Cl. 260—45.95.
Thompson, Ralph B., to Universal Oil Products Co. Inhibiting corrosion. 3,062,631, 11–6–62, Cl. 44—71.
Thompson, Ralph B. to Universal Oil Products Co. Preventing heat exchanger deposits. 3,062,744, 11–6–62, Cl. 252—51.5.
Thompson, Ralph B., to Universal Oil Products Co. 5-acylaminohexahydropyrimidines and carboxylic acid salts thereof. 3,063,999, 11–13–62, Cl. 260—256.4.
Thompson, Ralph B., and W. K. T. Gleim, to Universal Oil Products Co. Retarding discoloration of carbon tetrachloride. 3,066,174, 11–27–62, Cl. 260—652.5.
Thompson Ramo Wooldridge Inc.: *See*—
Alexander, Melville F. 3,052,089.
Amato, Carmelo J. 3,017,557.
Amdahl, Gene M., and Frady. 3,049,701.
Amdahl, Lowell D., Douthitt, Engel, and Hogan. 3,070,304.
Anderson, Frederick V., and Hess. 3,066,911.
Anderson, Neal S., Bendat, and Williams. 3,043,515.
Anderson, Robert L. 3,052,953.
Angell, Pierce T., and Colborn. 3,062,498.
Balish, Frank R. 3,023,372.
Balish, Frank R., McGarrell, Miller, and Naylor. 3,023,371.
Beckett, James A. Rose, and Hamrick. 3,054,252.
Beckner, Bernard E. 3,045,219.
Beckner, Bernard E., Irving, and Drukey. 3,062,922.
Beremand, Donald G. 3,024,803.
Bluck, Raymond M. 3,021,003.
Bluck, Raymond M. 3,066,910.
Briggs, Vernon R. 3,017,109.
Clark, Hubert M. 3,038,412.
Clary, Harry E. 3,048,022.
Cliborn, Robert. 3,070,025.
Cook, Harvey A. 3,020,901.
Corbett, Marshall J. 3,032,979.
Corbett, Marshall J. 3,058,304.
Corbett, Marshall J. 3,058,449.
Corbett, Marshall J. 3,058,489.
Corbett, Marshall J. 3,067,574.
Corbett, Marshall J. 3,067,575.
Cunningham, Donald E. 3,032,029.
Davis, James H. 3,039,243.
Dillingham, Edward, and Nyberg. 3,050,640.
Drukey, Donald L. 3,048,664.
Drukey, Donald L., Irving, and Wooldridge. 3,063,040.
Drutchas, Gilbert H. 3,068,797.
Eckman, Donald P. 3,028,175.
Egbert, Richard A. 3,035,256.
Eichenberger, Hans P. 3,016,865.
Fathauer, George H. 3,034,069.
Fathauer, George H., and Summers. 3,061,673.
Frady, William E. 3,014,583.
Fiden, William H., and Gottfried. 3,021,390.
Gair, Albert W. 3,030,134.
Gammon, Howard M., and O'Neill. 3,034,201.
Gammon, Howard M., and O'Neill. 3,034,840.
Gibson, Willard C. 3,046,351.
Gleeson, William S. 3,028,850.
Grigsby, John D. 3,048,719.
Grigsby, John D., and Jeromson. 3,048,979.
Hamrick, Joseph T. 3,027,836.
Head, George W. 3,052,189.
Hedges, Edison. 3,050,950.
Heiss, John P., and Templeton. 3,042,393.
Herbenar, Edward J. 3,028,172.
Herbenar, Edward J. 3,033,334.
Herbenar, Edward J. 3,041,094.
Herbenar, Edward J., and Mazur. 3,068,031.
Hess, Anton, and Barish. 3,027,144.
Higgins, Larry L., and Mallinckrodt. 3,068,474.
Horner, John W. 3,030,940.
Horner, John W. 3,043,465.
Horner, John W. 3,048,969.
Horner, John W. 3,059,424.
Horning, Wendell A. 3,036,964.
Humpal, Harold H. 3,061,733.
Husney, Edward A. 3,067,687.
Jiu, Richard. 3,021,450.
King, Paul E., and Mallina. 3,054,651.
Knoeke, Louis T. 3,051,275.
Knoeke, Louis T. 3,053,545.
Knoeke, Louis T. 3,068,848.
Koerner, Ralph J. 3,031,650.
Kovacik, Victor J. 3,069,527.
Krebs, Harrison F. 3,040,216.
Lakatos, Emory, and Goodell. 3,045,231.
Lakatos, Emory, Holland, and Pelzin. 3,047,822.
Langmuir, David B. and R. V., Shelton, and Wuerker. 3,065,640.
Logue, Clyde C., Jr. 3,024,936.
MacInnes, Hugh, and Undike. 3,043,636.
MacIntyre, Robert M. 3,070,786.
Martin, Cecil G., and Cummings. 3,023,980.
Thompson Ramo Wooldridge Inc.: *See*—Continued
Martin, Cecil G., and Humpal. 3,043,762.
Matt, Richur J. 3,066,654.
McComb, Berton J. 3,029,398.
McCormack, Alex A. 3,070,022.
McKinnon, Roy A. 3,070,565.
Mellott, Robert N. 3,037,200.
Mozic, Joseph D. 3,067,810.
Naylor, Arthur F. 3,023,373.
Naylor, Arthur F. 3,024,425.
Newton, John A. 3,040,417.
Norton, Samuel H. 3,041,715.
Norton, Samuel H. 3,042,160.
Norton, Samuel H. 3,048,165.
Nyberg, James J. 3,048,707.
Nyberg, James J. 3,056,889.
Nyberg, James J. 3,060,323.
Orgill, Heber L. 3,021,421.
Patrick, Ernest G. 3,041,037.
Pidhayny, Denny D., Lakatos, and Goodell. 3,052,882.
Prasse, Herbert F. 3,019,737.
Prasse, Herbert F., and Steele. 3,039,397.
Proud, Ralph A. 3,032,824.
Proud, Ralph A. 3,032,825.
Ricks, Bernard E. 3,036,366.
Ridgway, Stuart L. 3,056,662.
Ridgway, Stuart L. 3,060,678.
Sampietro, Achilles C. 3,022,114.
Sampietro, Achilles C. 3,033,518.
Sampietro, Achilles C. 3,045,657.
Sampietro, Achilles C. 3,045,658.
Sampietro, Achilles C., and Yingst. 3,052,106.
Scarbrough, Alfred D. 3,053,940.
Scarbrough, Alfred D., and Melliott. 3,043,965.
Schmidlin, Frederick W., and May. 3,054,978.
Schmidt, Frederick H. 3,043,581.
Schnabel, Julius W. 3,059,419.
Schnabel, Julius W. 3,059,420.
Schnabel, Julius W. 3,059,421.
Schoepe, Fred A., and Venables. 3,025,748.
Schweitzer, Roy C., and Anspach. 3,016,977.
Self, Richard E. 3,053,232.
Self, Richard E., and Allan. 3,053,236.
Shelton, Haywood. 3,018,399.
Sherman, Michael. 3,054,064.
Smeltzer, Jack C. 3,048,767.
Smeltzer, Jack C. 3,048,823.
Stafford, Roger A. 3,023,961.
Stafford, Roger A. 3,023,962.
Stieglitz, Henry C. 3,039,341.
Stiglic, Paul M., Shramo, and Hehmeyer. 3,066,653.
Stoermer, William F. 3,052,358.
Tauschek, Max J. 3,028,479.
Tauschek, Max J. 3,059,745.
Tauschek, Max J., Cherrie, and Bentell. 3,016,601.
Tauschek, Max J., and Gleeson. 3,052,085.
Taylor, John E. 3,032,987.
Thomson, Arthur R. 3,046,736.
Thrap, John E. 3,055,307.
Thrap, John E., and Prasse. 3,050,010.
Thrap, John E., and Prasse. 3,068,804.
Whitney, Theodore R. 3,029,406.
Wilcoxon, Ralph E. 3,068,539.
Wilcoxon, Ralph E. 3,070,414.
Williams, Cecil E. 3,052,974.
Williams, Cecil E. 3,060,426.
Zamites, Charles J., Jr. 3,024,430.
Thompson, Ransom S.: *See*—
Hasbrouck, Augustus, and Thompson. 3,057,541.
Thompson, Raymond E.: *See*—
McClintock, Ross A., Thompson, and Waggener. 3,056,614.
Waggener, Kenneth E. 3,061,336.
Thompson, Robert E., to Armour and Co. Prolonged action corticotropin preparation. 3,036,956, 5–29–62, Cl. 167—74.
Thompson, Robert E., and C. R. Allison, to General Electric Co. Aqueous solution for stripping nickel. 3,015,630, 1–2–62. Cl. 252—101.
Thompson, Robert L., to Ingersoll-Rand Co. Water tube construction for down-the-hole drills. 3,061,024, 10–30–62, Cl. 175—403.
Thompson, Robert S. Oil filter cleaner. 3,044,475, 7–17–62. Cl. 134—102.
Thompson, Stanley H., to Maida Development Co. Metal coating and method of making the same. 3,034,921, 5–15–62, Cl. 117—54.
Thompson, Stanley H. A., to Parnall & Sons Ltd. Vacuum forming machines. 3,024,495, 3–13–62. Cl. 18—19.
Thompson, Stanley H. A., to Parnall & Sons Ltd. Means for de-frosting refrigerating apparatus. 3,039,278, 6–19–62. Cl. 62—140.
Thompson, Stanley H. A., to Parnall & Sons Ltd. Machines for bent-forming thermoplastic articles. 3,057,166, 10–9–62. Cl. 62—5.
Thompson, Thomas H. Sheet metal tubing cutter. 3,065,657, 11–27–62. Cl. 83—451.
Thompson, Thomas J., and B. S. Hegg, to The Bendix Corp. Control apparatus. 3,049,139, 8–14–62, Cl. 137—48.
Thompson, Thomas R., and R. H. Clark, to General Aniline & Film Corp. Photographic film with fine grain silver chloride underlayer. 3,050,391, 8–21–62, Cl. 96—61.

Thompson, Thomas W.: *See*—
Hayner, Paul F., Thompson, Walker, Pfeifer, Campman, and Boothroyd, 3,026,638.
Simpson, Victor R., and Thompson. 3,041,964.
Thompson, Tom H. Engine driven submerged fuel pump. 3,065,784, 11–27–62, Cl. 158—36.4.
Thompson, Tommie L. Changeable hand stamp. 3,038,404, 6–12–62, Cl. 101—111.
Thompson Tractor Co., Inc.: *See*—
Thompson, Hall W., and Stewart. 3,047,342.
Thompson, Verle M. Livestock weighing apparatus. 3,038,549, 6–12–62, Cl. 177—246.
Thompson, Wallace M., to Harris Foundry & Machine Co. Charging box for a machine for operating on metal scrap. Re. 25,268, 10–23–62, Cl. 100—96.
Thompson, Wallace M., to Harris Foundry & Machine Co. Shearing machine. 3,037,446, 6–5–62, Cl. 100—98.
Thompson, Wallace M., to Harris Foundry & Machine Co. Hollow cap screw assembly with displaceable plug. 3,044,584, 7–17–62, Cl. 189—36.
Thompson, Wallace M., to Harris Foundry & Machine Co. Filler member for positively attaching and positioning a shear knife 3,046,825, 7–31–62, Cl. 83—698.
Thompson, Walter C.: *See*—
Holcomb, Henry A., and Thompson. 3,060,248.
Thompson, Wendell J. Air-ejector aircraft. 3,055,614, 9–25–62, Cl. 244—15.
Thompson, Wendell S., to FMC Corp. Weight checking apparatus. 3,017,026, 1–16–62, Cl. 209—121.
Thompson, William, and H. Nowell, to United Kingdom Atomic Energy Authority. Testing compacted bodies of mixed material 3,020,474, 2–6–62, Cl. 324—40.
Thompson, William, and N. B. Sykes, to Slumberland (Developments) Ltd. Machine for producing composite wire structures. 3,070,135, 12–25–62, Cl. 140—3.
Thompson, William B.: *See*—
Reinke, James J., Gustke, Schultz, and Thompson. 3,033,051.
Zeigler, Philip B., and Thompson. 3,022,772.
Thompson, William B., to Xerox Corp. Immersion development. 3,064,622, 11–20–62 Cl. 118—637.
Thompson, William B., and C. P. Miller, to General Motors Corp. Auxiliary valve for use in a fluid power steering gear. 3,043,276, 7–10–62, Cl. 121—38.
Thompson, William C. Portable electric lamps. 3,067,324, 12–4–62, Cl. 240—10.61.
Thompson, William D.: *See*—
Keim, Gerald I., and Thompson. 3,066,066.
Thompson, William J.: *See*—
Werner, Robert V., and Thompson. 3,068,470.
Thompson, William J., to Sperry Rand Corp. Rotary speed responsive switch device. 3,033,954, 5–8–62, Cl. 200—80.
Thompson, William O. Crankcase ventilation system. 3,030,942, 4–24–62, Cl. 123—119.
Thomsen, Alfred M. Method of improving the thermal efficiency of a gas producer-gas turbine assembly. 3,020,715, 2–13–62, Cl. 60—39.12.
Thomsen, Alfred M. Method of making and using neutral sulphite pulp. 3,025,222, 3–13–62, Cl. 195—48.
Thomsen, Alfred M. Method of increasing the opacity of cellulose fibers. 3,029,181, 4–10–62, Cl. 162—181.
Thomsen, Alfred M. Method of making fumaric acid and urea from lignified cellulose. 3,030,276, 4–17–62, Cl. 195—36.
Thomsen, Alfred M. Method of making acetic anhydride from lignified cellulose. 3,030,277, 4–17–62 Cl. 195—39.
Thomser, Alfred M. Catalyst manufacture. 3,033,799, 5–8–62, Cl. 252—450.
Thomsen, Alfred M. Method of pulping cellulosic substances. 3,037,901, 6–5–62, Cl. 162—32.
Thomsen, Alfred M. Method of carbonizing spent cooking liquor from pulp making. 3,038,834, 6–12–62, Cl. 162—16.
Thomsen, Alfred M. Method of making cellulose acetate. 3,038,894, 6–12–62, Cl. 260—227.
Thomsen, Alfred M. Method of making titanium dioxide. 3,042,492 7–3–62. Cl. 23—202.
Thomsen, Alfred M. Process for the direct reduction of iron. 3,052,533, 9–4–62, Cl. 75—11.
Thomsen, Alfred M. Missile propulsion, 3,056,255, 10–2–62, Cl. 60—35.4.
Thomsen, Elmer R. Envelope and sheet feeder and collating apparatus. 3,047,290, 7–31–62, Cl. 271—36.
Thomsen, Max, to Sylvania Electric Products Inc. Lighting fixture. 3,027,451, 3–27–62, Cl. 240—51.11.
Thomsen, Max M., and E. G. Johnson, to Sylvania Electric Products Inc. Lighting fixture. 3,069,541, 12–18–62, Cl. 240—147.
Thomsen, Richard N., and W. G. Martin. Artificial tree branches. 3,050,891, 8–28–62, Cl. 41—15.
Thomsen, Theodore R.: *See*—
Rockafellow, Stuart C., and Thomsen. 3,051,825.
Thomsen, William A. V.: *See*—
Morgan, Carrel B., and Thomsen. 3,033,216.
Thomsen, William A. V., to Specialties Development Corp. Control device. 3,030,816, 4–24–62, Cl. 74—99.
Thomsen, William A. V., C. B. Morgan and B. W. Quail, to Specialties Development Corp. Solenoid operated valve unit. 3,016,920, 1–16–62, Cl. 137—625.27.
Thomson, Arthur R., to Thompson Ramo Wooldridge Inc. Direction control for gelatin monopropellant rocket engine. 3,046,736, 7–31–62, Cl. 60—35.55.
Thomson, Donald A., to General Steel Wares Ltd. Portable barbecue. 3,064,637, 11–20–62, Cl. 126—9.
Thomson, Elihu C., to Farrington Machines, Inc. Machine for apportioning and weighing unit quantities of macaroni and similar strand products. 3,058,536, 10–16–62, Cl. 177—1.
Thomson, Elihu C., to Electronics Corp. of America. Timing circuit. 3,069,552. 12–18–62, Cl. 250—214.
Thomson, Ernest E., D. A. Green, and P. Holton, to Electric & Musical Industries Ltd. Electrodes. 3,039,016, 6–12–62, Cl. 313—348.
Thomson-Houston, Compagnie Francaise: *See*—
Beurtheret, Charles. 3,034,975.
Beurtheret, Charles A. E. 3,046,428.
Beurtheret, Charles A. E. 3,046,429.
Beurtheret, Charles A. E. 3,055,643.
Romiguiere, Claude E. G. 3,038,132.
Thomson, James E., to Western Stamping Co. Toy cash register. 3,045,902, 7–24–62, Cl. 235—12.
Thomson, James E., to Western Stamping Co. Toy bank vault construction, 3,048,940, 8–14–62 Cl. 46—3.
Thomson, James E., to Western Stamping Co. Typewriter. 3,057,449, 10–9–62, Cl. 197—22.
Thomson, John B.: *See*—
Hülck, Karl, and Menninger. 3,070,405.
Thomson, John B. Fluorocarbon sleeve bearing. 3,033,623, 5–8–62, Cl. 308—238.
Thomson, Kenneth: *See*—
Match, Marvin J., and Thomson. 3,052,427.
Thomson, Kenneth R., to The Thrissell Engineering Co. Ltd. Single-revolution clutch. 3,034,621, 5–15–62, Cl. 192—27.
Thomson, Marvin G.: *See*—
Francis, Norman L., Thomson, and Musschoot. 3,045,886.
Thomson, Robert F.: *See*—
Hanink, Dean K., Shoudy, and Thomson. 3,065,107.
Hanink, Dean K., Shoudy, Thomson, and Mette. 3,033,705.
Thon, Carl L. Attachment for installing wallboard and insulation. 3,054,611, 9–18–62, Cl. 269—97.
Thonemann, Peter C., R. Carruthers, and R. J. Bickerton, to The United Kingdom Atomic Energy Authority. Gas discharge apparatus. 3,054,742, 9–18–62, Cl. 204—193.2.
Thor Power Tool Co., The: *See*—
Kaman, Frank A. 3,020,920.
Mitchell, Wallace F. 3,022,838.
Mitchell, Wallace F. 3,062,107.
Sandvig, Robert L. 3,057,417.
Thorbrogger, Holger H., to American Telephone and Telegraph Co. Signal timing circuit. 3,019,388, 1–30–62, Cl. 324—68.
Thorburn, Gordon L., to G. R. Kirk Co. Liquid container type Christmas tree stand. 3,038,688, 6–12–62, Cl. 248—44.
Thorel, John P., A. J. Mel, and H. C. Flaton, to Westinghouse Electric Corp. Linear driving mechanism. 3,050,943, 8–28–62, Cl. 60—52.
Thorman, Richard L., and R. J. Roberts; said Thorman assor. to General Motors Corp. Transmission oil filter assemblage. 3,056,501, 10–2–62, Cl. 210—132.
Thorn Electrical Industries Ltd.: *See*—
Chapman, Donald F. 3,037,176.
Kember, Raymond C. 3,067,323.
Mash, Derek H. 3,030,540.
Mash, Derek H. 3,053,310.
Ranby, Peter W., and Hobbs. 3,037,941.
Ranby, Peter W., and Hobbs. 3,049,497.
Ranby, Peter W., and Turner. 3,068,114.
Stevens, Richard W. 3,065,336.
Thorn, Floyd B., Jr., to Cathodic Protection Service. Current rectifier. 3,050,664, 8–21–62, Cl. 317—99.
Thorn, John P., W. A. Dimler, Jr., and J. A. Gallagher, to Esso Research and Engineering Co. Epoxy esters derived from polycyclopentadienes. 3,066,151, 11–27–62, Cl. 260—348.
Thornberry, James M.: *See*—
Strathearn, Donald M., and Thornbery. 3,028,458.
Thornbery, James M., and D. F. Willcox, to Controls Co. of America. Timer and timer positioning means. 3,033,999, 5–8–62, Cl. 307—141.4.
Thornburgh, Argyle K. Air current deflector shield. 3,015,517, 1–2–62, Cl. 296—91.
Thornburgh, William F., to General Motors Corp. Air cleaner and silencer assembly. 3,039,254, 6–19–62, Cl. 55—276.
Thorne, Parker: *See*—
Bergh, Thomas R., King, Nierzwicki, and Thorne. 3,043,567.
Thorner, Robert H. Fluid powered governor. 3,051,139, 8–28–62, Cl. 121—42.
Thorner, Robert H. Speed regulating mechanism. 3,068,849, 12–18–62, Cl. 123—103.
Thorness, Rudolph B.: *See*—
Maas, Raymond W., and Thorness. 3,018,069.
Maas, Raymond W., and Thorness. 3,037,100.
Thornhill, Charles W., G. D. Hall, and O. L. Nordin, to Thornhill-Craver Co. Automatic high-low pressure cut-off valve. 3,049,140, 8–14–62, Cl. 137—68.
Thornhill-Craver Co.: *See*—
Thornhill, Charles W., Hall, and Nordin. 3,049,140.
Thornton Axle Inc.: *See*—
Hartupee, Perry B. 3,051,020.
Thornton, Clarke F.: *See*—
Cox, Frank T., Jr., and Thornton. 3,037,584.

Thornton, Elbert H. E. Receptacles with positive locking closures. 3,019,931, 2–6–62, Cl. 215—9.

Thornton, Isaiah V. Ball bearing guides. 3,017,227, 1–16–62, Cl. 308—3.8.

Thornton, James E., and S. R. Cray, to Sperry Rand Corp. Diode transfer circuit. 3,035,182, 5–15–62, Cl. 307—88.5.

Thornton, Samuel A. Grab for cane stalks and the like. 3,069,034, 12–18–62, Cl. 214—147.

Thornton, Stephen D., Jr., to Don Baxter, Inc. Administration set. 3,030,954, 4–24–62, Cl. 128—214.

Thornton, Stephen D., Jr., to Don Baxter, Inc. Gastric tube. 3,058,472, 10–16–62, Cl. 128—348.

Thornton, Stuart R. Locking device for vehicle hub caps. 3,021,178, 2–13–62, Cl. 301—37.

Thornton-Trump, Walter E. Mobile power-operated bin handling and transporting vehicle. 3,018,905, 1–30–62, Cl. 214—390.

Thornton, William A., Jr., to Westinghouse Electric Corp. Method of forming films of electroluminescent phosphor. 3,044,902. 7–17–62. Cl. 117—215.

Thorp, Arthur G., II, to United States of America, Atomic Energy Commission. Cruciform control rod joint. 3,048,-532, 8–7–62, Cl. 204—193.2.

Thorp, James T., Jr., to Universal Match Corp. Explosively actuated valves. 3,022,793. 2–27–62. Cl. 137—68.

Thorp, James T., Jr., to Universal Match Corp. Explosively actuated valves. 3,027,903. 4–3–62, Cl. 137—68.

Thorpe, Allan C., to International Business Machines Corp. Switching device. 3,028,581, 4–3–62, Cl. 340—166.

Thorpe Insulation Co.: *See*—
Glasoe, Karl M., Jr. 3,016,999.

Thorpe, Robert J., and M. C. Eley, to United States of America, Air Force. Apparatus for controlling the fuel supply to an internal combustion engine during starting. 3,059,427, 10–23–62, Cl. 60—39.14.

Thorpe, Robert M.: *See*—
White, Theodore Z., and Thorpe. 3,051.450.

Thorsen, Jarl M., to Telefonaktiebolaget L M Ericsson, Amplitude limiting system. 3,023,355, 2–27–62. Cl. 323—9.

Thorshein, Jens O., to Minneapolis-Honeywell Regulator Co. Control apparatus. 3,022,987, 2–27–62, Cl. 263—10.

Thorson, Lloyd A., to Ipsen Industries, Inc. Apparatus for measuring carbon potential. 3,031,881, 5–1–62, Cl. 73—17.

Thorson, Sheldon E.: *See*—
Black, Robert L., and Thorson. 3,041,891.

Thorvson, Mathew T., to Fairbanks, Morse & Co. Electrical translating circuits. 3,027,080. 3–27–62. Cl. 235—155.

Thorstad, James A., to Baxter Laboratories, Inc. Container for supplemental medication and method of using the same. 3,055,367, 9–25–62, Cl. 128—272.

Thostenson, Lewis D., to Salsbury Corp. Pulley transmission. 3,066,546, 12–4–62, Cl. 74—230.17.

Thourel, Leo, to Compagnie Generale de Telegraphie Sans Fil. Electromagnetic pulse transmitting and receiving systems. 3,015,819. 1–2–62, Cl. 343 —7.7.

Thourel, Leo, to Compagnie de Generale de Telegraphie Sans Fil. Improvements in aerials of the cosecant-squared type. 3,018,480, 1–23–62, Cl. 343—771.

Thourel, Leo, and G. Le Parquier, to Compagnie Generale de Telegraphie Sans Fil. Improvements in monopulse moving target indicators. 3,044,057, 7–10–62, Cl. 343—7.7.

Thouret, Wolfgang E., to Dyna-Test Corp. Arc lamp with self-ballasted arc tube and improved lumen maintenance. 3,048,741, 8–7–62. Cl. 315—49.

Thrap, John E., to Thompson Ramo Wooldridge Inc. Pressure yoke for pumps. 3,055,307, 9–25–62. Cl. 103—126.

Thrap, John E., and H. F. Prasse, to Thompson Ramo Wooldridge Inc. Pressure loaded pump. 3,050,010, 8–21–62, Cl. 103—126.

Thran, John E., and H. F. Prasse, to Thompson Ramo Wooldridge Inc. Pressure loaded pump seal. 3,068,804, 12–18–62, Cl. 103—126.

Thrasher, Howard G., to Litton Industries of California. Irrotational mount. 3,057,592, 10–9–62, Cl. 248—358.

Thrasher, William B. Lawn trimmer. 3,070,176, 12–25–62, Cl. 172—16.

Thraum, Werner: *See*—
Rahlfs, Erich, Thraum, and Henrich. 3,028,316.

3-D Weaving Co.: *See*—
Ropelman, Edward, and Campman. 3,048,198.

Thrift, Griffin C., to Koch Engineering Co., Inc. Contact apparatus. 3,056,592, 10–2–62, Cl. 261—114.

Thrissell Engineering Co. Ltd., The: *See*—
Osborn, Howard, and Gould. 3 018,009.
Thomson, Kenneth R. 3,034,621.

Thrun, Lawrence O. Vibrating compaction roller. 3,052,166, 9–4–62, Cl. 94—48.

Thrush, Anthony M.: *See*—
Vegter, Geert C., and Thrush. 3,050,438.

Thuerman, John H., to Chain Belt Co. Chain and threaded pin. 3,036,695, 5–29–62, Cl. 198—189.

Thulin, Sten G.: *See*—
Lindquist, Curt A. J., Ohlander, and Thulin. 3,027,065.

Thulke, Hermann G. to Chas. Pfizer & Co. Inc. Tube-sealing method and apparatus. 3,061,991, 11–6–62, Cl. 53—373.

Thum, Rudolf, G. Kilian, and R. Ramsauer, deceased; by M. Ramsauer, heir, to Deutsche Tafelglas Aktiengesellschaft Detag. Method for reducing undulations in a glass strip continuously drawn from a glass melt. 3,037,325, 6–5–62, Cl. 49—83.1.

Thumim, Carl, to The Lawson Co., Division of Miehle-Goss-Dexter, Inc. Flexible clamp for paper cutters. 3,025,049, 3–13–62, Cl. 269—153.

Thumim, Carl, to The Lawson Co. Division of Miehle-Goss-Dexter, Inc. Automatic indexing bar. 3,031,054, 4–24–62, Cl. 192—142.

Thumim, Carl, to Mielhle-Goss-Dexter, Inc. Work holding and conveying means for automatic cutter. 3,033,067, 5–8–62, Cl. 83—206.

Thumim, Carl, to Miehle-Goss-Dexter, Inc. Cable carrier for photoelectrically controlled paper cutting machines. 3,042,-760, 7–3–62, Cl. 191—12.

Thumim, Carl, to Miehle-Goss-Dexter, Inc. Flexible clamp for paper cutters. 3,048,386, 8–7–62, Cl. 269—22.

Thumm, Byron A., to American Viscose Corp. Preparing viscose rayon. 3,031,256, 4–24–62, Cl. 18—54.

Thumm, Byron A., to American Viscose Corp. Producing all skin rayon. 3,031,257. 4–24–62, Cl. 18—54.

Thumm, Byron A., to American Viscose Corp. Method of producing all skin rayon. 3,049,398, 8–14–62, Cl. 18—54.

Thune, Robert E.: *See*—
Korensky, Edwin, and Thune. 3,021,014.

Thurber, Elmer A., to Bell Telephone Laboratories, Inc. Method of fabricating cathode for electron discharge devices. 3,015,560, 1–2–62, Cl. 75—207.

Thuresson af Ekenstam, Bo, and F. R. Svensson, to Kooperative Forbundet. Dispensing device for successively dispensing articles in unit form. 3,039,652, 6–19–62, Cl. 221—25.

Thurlings, Hermann, to Hansella-Werke Albert Henkel A.G. Orientation apparatus for articles to be wrapped. 3,015,-378, 1–2–62. Cl. 198—33.

Thurlings, Hermann, to Hansella-Werke Albert Henkel A.G. Control device for web feeding mechanism. 3,028,064, 4–3–62. Cl. 226—30.

Thurlings, Hermann, to Hansella-Werke Albert Henkel A.G. Metering device for packing machines. 3,042,260, 7–3–62, Cl. 222—56.

Thurlow, John F., to Fitchburg Paper Co. Lithographic printing plate and method of making the same. 3,016,823. 1–16–62, Cl. 101—149.2.

Thurman, Benjamin H. Refining of fatty oils. 3,027,389, 3–27–62, Cl. 260—425.

Thurman, Benjamin H. Apparatus and method for centrifugal clarification of fatty oils. 3,027,390, 3–27–62, Cl. 260—425.

Thurman, Benjamin H., to B. Clayton d.b.a. Refining Unincorporated. System of proportioning fluids. 3,038,486, 6–12–62, Cl. 137—99.

Thurnauer, William, to Julius Blum & Co., Inc. Handrail support. 3,026,080, 3–20–62, Cl. 248—251.

Thurow, Harold H. and H. J. Combine attachment for retrieving down ears of corn. 3,020,696, 2–13–62, Cl. 56—364.

Thurow, Herbert J.: *See*—
Thurow, Harold H. and H. J. 3,020,696.

Thurston, Bryan O., to Daystrom, Inc. Adjustable cam devices. 3.058,370, 10–16–62, Cl. 74—568.

Thurston, Edward G., and D. W. Kuester, to United States of America, Navy. Low frequency transducer. 3.048,815, 8–7–62, Cl. 340—10.

Thurston, Eames G. Cable traction device for attachment to energized power cables. 3,059,955, 10–23–62, Cl. 294—19.

Thurston, Ralph H. Grapple device. 3,032,367, 5–1–62, Cl. 294—103.

Thurstone, Granger B., and W. F. Behm, to Houdaille Industries, Inc. Engine repair stand. 3,063,706, 11–13–62, Cl. 269—61.

Thuse, Erik: *See*—
Granberg, Albert J., and Thuse. 3.020,758.

Thuss, Werner, to J. M. Voith G.m.b.H. Method of and arrangement for limiting the runaway speed of double controlled Kaplan turbines. 3,069,136, 12–18–62, Cl. 253—143.

Thut, Paul J., and R. W. Beachner, to Burroughs Corp. Printing apparatus and inking arrangement therefor. 3,020,841, 2–13–62, Cl. 101—350.

Thwaites, Herman L., and G. L. Matheson, to United States of America, War. Grenade. 3,052,186, 9–4–62, Cl. 102—65.

Thwaites, Herman L., and G. H. B. Davis, to United States of America, War. Safety device for delayed action fuze. 3,052,187, 9–4–62, Cl. 102—82.

Thyco Engineering Corp.: *See*—
Strickland, Wyatt B. 3,063,380.

Thyen, Rainer, to International Standard Electric Corp. Circuit arrangement for encoding devices. 3,015,805, 1–2–62, Cl. 340—147.

Thylefors, Henric W., to Separator, Aktiebolaget. Regulating device for centrifugal separators. 3,052,401, 9–4–62, Cl. 233—19.

Thyrum, Per T. Detector of free water in liquids of low water solubility. 3,066,221, 11–27–62, Cl. 250—71.

Tibbetts, Raymond E., to International Business Machines Corp. Ultra-violet lens. 3,035,490, 5–22–62, Cl. 88—57.

Tibbetts, Raymond E., and D. C. Gilkeson, to Revere Camera Co. (formerly Samica Corp.). Optical system for zoom binoculars. 3,069,972, 12–25–62, Cl. 88—57.

Tibbetts, Willis F.: *See*—
Hutchison, Frank C., Stripp, and Tibbetts. 3,059,577.

Tibbitts, Ernest P., to Bristol-Myers Co. Cosmetic stick applicator. 3,061,084, 10–30–62, Cl. 206—56.

Tibbs, Christopher E. M., to Radio Heaters Ltd. Radio frequency dielectric heating apparatus. 3,050,606, 8–21–62, Cl. 219—10.55.

Tiberio, Amalia : *See*—
Tiberio, Mario Q. 3,045,208.

Tiberio, Mario Q., ½ to A. Tiberio. Rotatable stop light. 3,045,208. 7–17–62. Cl. 340—107.

Tibolla, Julius F. : *See*—
Cook, Edward G., Tibolla, and Foundos. 3,019,637.

Tice, Elsie A. : *See*—
Mills, Derek J., and Tice. 3,051,985.

Tice, George W. : *See*—
Mills, Derek J., and Tice. 3,051,985.

Tice, Harry S., Jr. : *See*—
Comerford, William H., Jr., and Tice. 3,048,758.

Tice, William F., and D. W. Sievert, to Barber-Colman Co. Fast-retura motor control. 3,069,610, 12–18–62, Cl. 318—257.

Tichenor, Clyde L. Apparatus for detecting motion. 3,027,770, 4–3–62, Cl. 74—2.

Tichenor, Judith H. : *See*—
Marvin, John, Anderson, and Tichenor. 3,041,178.

Tichy, Jan, to Zavody V.I. Lenina. Device for the production of carton wrappers for articles. 3,029,573, 4–17–62, Cl. 53—192.

Tickamatic Corp. : *See*—
Kafka, Robert S. 3,037,598.

Ticknor, Raymond G., to General Motors Corp. Combustion shell, heat exchanger and burner assembly. 3,016,946, 1–16–62, Cl. 158—7.

Ticulka, Frank A. : *See*—
Cammack, Rose M., Schossberger, and Ticulka. 3,032,394.

Tidd, George W. : *See*—
Frisch, Martin, Cartinhour, Tinbergen, Stern, and Tidd. 3,052,222.

Tidewater Oil Co. : *See*—
Rabenold, Raymond F. 3,062,431.

Tidland, Charles R. : *See*—
Williams, Arthur T., and Tidland. 3,029,037.

Tidland, Charles R., ½ to A. T. Williams. Expansible rotatable mandrel. 3,032 288. 5–1–62, Cl. 242—72.

Tidridge, William A., and R. Fals, to FMC Corp. Dry acidulents. 3,050,213. 4–17–62, Cl. 99—129.

Tidridge, William A., and L. E. Cohen, to FMC Corp. Clear high-foam liquid built detergent. 3,037,935, 6–5–62, Cl. 252—137.

Tidridge, William A. and L. E. Cohen, to FMC Corp. Creamy low-foam liquid built detergent composition. 3,037,936, 6–5–62, Cl. 252—139.

Tiede, Ralph L., to Owens-Corning Fiberglas Corp. Treatment for glass bodies in filament forming operation. 3,048,466, 8–7–62, Cl. 18—54.

Tiede, Ralph L., to Owens-Corning Fiberglas Corp. Apparatus for measuring the viscosity of glass at high temperatures. 3,056,283, 10–2–62, Cl. 73—59.

Tiedeman, Robert K. to Curtiss-Wright Corp. Propeller pitch control system. 3 044,558. 7–17–62. Cl. 170—160.18.

Tiedeman, Robert K., and S. Bentley, to Curtiss-Wright Corp. Speed and torque responsive clutch. 3,065,833, 11–27–62, Cl. 192—105.

Tiedemann, Herman, to General Aniline & Film Corp. Making coffee and tea brews and the resulting product. 3,022,173. 2–20–62. Cl. 99—28.

Tiedemann, Herman H., to General Aniline & Film Corp. Continuous manufacture of beta-sulfoethylesters of fatty acids. 3,040,073. 6–19–62, Cl. 260—400.

Tiefenthal Harlan E., and Y. C. Lee, to Koppers Co., Inc. Salts of styrene-maleic anhydride copolymers. 3,030,342. 4–17–62, Cl. 260—78.5.

Tiefenthal, Rolf E., and S. Å. H. Bergehall, to Melka, Aktiebolaget. Method of and apparatus for cutting fabrics or similar materials. 3,062,354. 11–6–62. Cl. 198—20.

Tiegel, Ernest G. Means for and method of making dry-charge batteries. 3 038,018. 6–5–62. Cl. 136—33.

Tieken, Theodore D., to Babson Bros. Co. Milk pipeline valve. 3,055,385. 9–25–62. Cl. 137—381.

Tieman, Charles H. : *See*—
Erikson, Jay A., Stiles, and Tieman. 3,065,257.

Tieman, Charles H., to Shell Oil Co. Preparation of carbalkoxyvinyl phosphate triester insecticides. 3,068,271, 12–11–62. Cl. 260—461.

Tieman, Charles H., and A. R. Stiles, to Shell Oil Co. Preparation of vinyl esters of phosphorus acids useful as insectidies. 3,068,268, 12–11–62, Cl. 260—461.

Tiemann, Jerome J., to General Electric Co. Polarity-sensitive negative resistance oscillator with frequency shift. 3,054,071. 9–11–62, Cl. 331—107.

Tiemersma, Heine G. N., to American Enka Corp. Manufacture of linear polycondensation products. 3,044,993. 7–17–62. Cl. 260—78

Tien, Ping K. : *See*—
Poole, Kenneth M., Tien, and Weiss. 3,044,021.

Tien, Ping K., to Bell Telephone Laboratories, Inc. Magnetostatic microwave devices. 3,016,495. 1–9–62. Cl. 330—56.

Tiert, Arthur J. Ophthalmic mounting hinges. 3,042,961, 7–10–62. Cl. 16—128.

Tierl, Justin D. Wheeled figure toy. 3,056,231, 10–2–62, Cl. 46—104.

Tiernan, Paul L., to Richardson-Merrell Inc. 3-basic ethers of 17-alkylandrostenes. 3,038,897, 6–12–62, Cl. 260—239.5.

Tierney, Louis R. Water ski with spout. 3,020,568, 2–13–62. Cl. 9—310.

Tierney, Paul A. : *See*—
Brown, Herbert C., Rao, and Tierney. 3,026,329.

Tierney, Raymond B. : *See*—
Chesluk, Ralph P., and Tierney. 3,069,357.
Henry, Clemence J., and Tierney. 3,039,967.

Tierney, Raymond B., and R. H. Krug, to Texaco Inc. Lubricating compositions. 3 048,542, 8–7–62, Cl. 252—47.5.

Tiers, George V. D., to Minnesota Mining and Mfg Co. Ethylene telomers. 3,050,555, 8–21–62, Cl. 260—643.

Tiers, George V. D., to Minnesota Mining and Mfg. Co. Halogenated alkane sulfonyl fluorides. 3,050,556, 8–21–62, Cl. 260—543.

Tietz, Raymond F., to E. I. du Pont de Nemours and Co. Acrylonitrile polymerization process. 3,020,265, 2–6–62, Cl. 260—79.3.

Tietze, Hermann, to O. H. Drager. Diving apparatus. 3,068,864, 12–18–62, Cl. 128—142.

Tiffany, Douglas B. : *See*—
Roberts, Frederick W., Montgomery, and Tiffany. 3,052,762.

Tiffany, Frank E. Sandwich circuit strips. 3,022,480, 2–20–62. Cl. 339—18.

Tiffany Stand Co. : *See*—
Simpkins, William. 3,054,623.

Tiffin, Thomas, and G. Buckley, to Dronsfield Brothers Ltd. Universal driving couplings. 3,065,612, 11–27–62, Cl. 64—17.

Tigner, Ronald G. : *See*—
Gray, Roland H., Jr., Rygwelski, and Tigner. 3,047,522.

Tigrett Industries, Inc. : *See*—
Wigal, Vorhis F. 3,055,123.

Tiidt, Felix : *See*—
Brimberg, Torsten, and Tiidt. 3,031,826.

Tilden, Carleton D., to The New York Central Railroad Co. Journal box lid lifter. 3,034,453, 5–15–62, Cl. 104—26.

Tile Council of America, Inc. : *See*—
Wagner, Herman B. 3,030,958.
Wagner, Herman B., and Weller. 3,050,493.

Tiletronics Technicians, Inc. : *See*—
Reynolds, Harold B., and Ward. 3 026,863.

Tiley, Gerald L., E. Oldfield, and G. W. Wykes, to Canadian Westinghouse Co. Ltd. Braking system for hoists and the like. 3,058,547, 10–16–62, Cl. 188—106.

Tiley, John W., and R. A. Williams, to Philco Corp. Semiconductive devices and methods for the fabrication thereof. 3,067,114. 12–4–62, Cl. 204—143.

Tiley, Gerald : *See*—
Canfor, Kenneth, Goba, Tiley, and Oldfield. 3,026,471.

Tilford, Charles H. : *See*—
Allen, Robert E., Andrews, Schumann, and Tilford. 3,031,449.
Carr, Albert A., Jr., Tilford, and Kuhn. 3,056,784.

Tilford, Charles H., to Richardson-Merrell Inc. Hexahydro quinolizines. 3,031,454, 4–24–62, Cl. 260—293.

Tilghman, Richard A. : *See*—
Drayton, John W. 3 039,605.

Tilgner, Ralph F., to Pittsburgh Plate Glass Co. Method of setting a helically wound rotary brush. 3,038,759, 6–12–62, Cl. 300—21.

Tilgner, Ralph F., to Pittsburgh Plate Glass Co. Hold-down lug type brush section. 3,042,951, 7–10–62, Cl. 15—182.

Till, Robert D. : *See*—
Fegely, Hugh S., and Till. 3,048,742.

Till, William R. Anti-jackknifing device. 3,036,845, 5–29–62, Cl. 280—432.

Tillander, Folke G., to Aktieboleget Bofors. Device for belt-fed guns. 3 021,761. 2–20–62, Cl. 89—33.

Tillery Container Co. : *See*—
Tillery, Hubert B., and L. D. 3,037,675.
Tillery, Hubert B., and L. D. 3,037,676.

Tillery, Lee S. : *See*—
Stanley, Peter J., and Tillery. 3,063,377.

Tillery, Luther D. : *See*—
Tillery, Hubert B., and L. D. 3,037,675.
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Tillery, Hubert B., and L. D., to Tillery Container Co. Garment hanger guards. 3 037,675. 6–5–62, Cl. 223—98.

Tillery, Hubert B., and L. D., to Tillery Container Co. Garment hanger guards. 3 037 676. 6–5–62, Cl. 223—98.

Tilles, Harry, and J. Antognini, to Stauffer Chemical Co. Method of combating weeds. 3,066,020, 11–27–62, Cl. 71—2.5.

Tilley, Aubra E., to California Research Corp. Method and apparatus for timing seismic recordings. Re. 25,194, 7–3–62, Cl. 340—15.5.

Tillman, Richard M. : *See*—
Hunt, Mack W., and Tillman. 3,057,763.
Sias, Roy C., and Tillman. 3,061,419.

Tillman, Richard M., to Continental Oil Co. Aluminum-containing additive for fuel oil compositions and method of preparing same. 3,018,172, 1–23–62, Cl. 44—51.

Tillman, Robert M., to Burroughs Corp. Pulse generator. 3,032,663, 5–1–62, Cl. 307—88.

Tillotson, Allen H. Deer stand. 3,043,397, 7–10–62, Cl. 182—124.

Tillotson, George A. : *See*—
Daglish, Anthony F., Vonderwahl, and Tillotson. 3 017,412.
Daglish, Anthony F., Vonderwahl, and Tillotson. 3,043,780.

Tillotson Mfg. Co., The: *See*—
Nutten, Warren D., and Phillips, 3,045,605.
Phillips, Bernard C. 3,030,084.
Phillips, Bernard C. 3,037,751.
Phillips, Bernard C. 3,065,957.
Tillson, Edwin D., and E. J. Krok, to Curtis-Electro Lighting, Inc. Universally mountable lighting fixture. 3,043,951, 7–10–62, Cl. 240—51.11.
Tilson, Robert S., to General Electric Co. Electric switch. 3,041,432, 6–26–62, Cl. 200—172.
Tilly, James O. Slitting device. 3,028,670, 4–10–62, Cl. 30—294.
Tillyer, Edgar D., and W. E. Folland, to American Optical Co. Apparatus and methods for production of helium by diffusion. 3,022,858, 2–27–62, Cl. 183—2.
Tilney, Ralph B., to Alco Valve Co. Rate of flow control system for refrigeration. 3,023,591, 3–6–62, Cl. 62—204.
Tilney, Ralph B., to Alco Valve Co. Reverse cycle valve. 3,051,188, 8–28–62, Cl. 137—119.
Tilney, Ralph B., to Alco Valve Co. Condenser pressure regulating system. 3,060,699, 10–30–62, Cl. 62—196.
Tilney, Ralph B., and J. A. Schenk, to Alco Valve Co. Compound pressure regulating system for refrigeration. 3,037,-362, 6–5–62, Cl. 62—117.
Tiltman Langley Ltd.: *See*—
Hargreaves, Roger. 3,057,747.
Tilton, Clarence B.: *See*—
Carroll, William N., and Tilton. 3,064,896.
Douglass, Thomas E., and Tilton. 3,032,404.
Timber Engineering Co.: *See*—
Reidelbach, John A., Jr. 3,018,522.
Timber Truss Connectors, Inc.: *See*—
Atkins, Wyman B. 3,016,586.
Timberlake, John R.: *See*—
Jennings, Marvin D., and Timberlake. 3,031,831.
Timbers, Lawrence J. Wheel chock. 3,065,827, 11–27–62, Cl. 188—4.
Timcke, Rolf. Vibration therapy apparatus. 3,024,783, 3–13–62, Cl. 128—2.
Time, Inc.: *See*—
Brink, Robert M. 3,060,420.
Faeber, Harry W. 3,026,842.
Faeber, Harry W. 3,045,585.
Faeber, Harry W. 3,070,066.
Faeber, Harry W., and Galer. 3,057,327.
Faeber, Harry W., and Sandor. 3,037,557.
Moe, William W. 3,029,387.
Moe, William W., and Parks. 3,030,453.
Parks, Herman D. 3,060,413.
Rice, Roger P., Jr. 3,018,062.
Time Savers, Inc.: *See*—
Calder, Caesar A., and Stoeckli. 3,060,657.
Time Stop, Inc.: *See*—
Bryan, Wade B., Bryan, and Van Gorden. 3,018,615.
Timefax Corp.: *See*—
Dalton, Harold R. 3,048,515.
Timken Roller Bearing Co., The: *See*—
Edwards, Herbert C. 3,023,057.
Horger, Ralph E. 3,029,082.
Horger, Oscar J., and Keller. 3,061,385.
Timmer, David J., R. W. Philbrick, D. W. Mossbarger, and A. M. Caton, to Globe Industries, Inc. Electromagnetic device. 3,022,432, 2–20–62, Cl. 310—37.
Timmerman, Cay G. Device for positioning and prepairing jointed links for separation. 3,041,820, 7–3–62, Cl. 59—7.
Timmerman, Thomas J. Lifting device. 3,056,625, 10–2–62, Cl. 294—106.
Timmers, Jacobus L.: *See*—
De Boogs, Jacob, and Timmers. 3,032,821.
Timmins, John C.: *See*—
Schmier, Jacob, and Timmins. 3,034,084.
Timmis, Geoffrey M., R. F. Hudson, R. D. Marshall, and H. R. Bierman, to Burroughs Wellcome & Co (U.S.A.) Inc. Method of temporarily alleviating the symptoms of chronic and acute myelocytic leukemias with 2,5-bisnethanesulphonoxy-hexane. 3,041,241, 6–26–62, Cl. 167—78.
Timmis, Thomas W.: *See*—
Barth, Victor C., and Timmis. 3,019,069.
Timmons, Charles L. Building structures. 3,039,478, 6–19–62, Cl. 135—3.
Timmons, Frank E., to Belden Mfg. Co. Electrical cable. 3,032,604, 5–1–62, Cl. 174—115.
Timmons, William D., Jr., and J. J. Robertson, to The Firestone Tire & Rubber Co. Means for curing butyl rubber. 3,038,891, 6–12–62, Cl. 260—85.3.
Timms, Cecil T. W., Aitchison, and L. A. Savee, to National Research Development Corp. Measurement and correction of errors in machines. 3,054,902, 9–18–62, Cl. 250—237.
Timms, Richard N.: *See*—
Carpenter, Albert S., and Timms. 3,066,008.
Timms, Ross L.: 90% to Model Vending Controls, Inc., and 10% to Oldham & Oldham. Vending control apparatus. 3,068,984, 12–18–62, Cl. 194—10.
Timpe, Atwood M. Subterranean irrigation. 3,046,747, 7–31–62, Cl. 61—15.
Timpner, Fred F.: *See*—
Campbell, Edgar C., and Timpner, 3,045,458.
Timpner, Fred F., and H. Aldikacti, to General Motors Corp. Dynamic vibration absorber. 3,056,312, 10–2–62, Cl. 74—574.
Timpone, Dorothy J.: *See*—
Jacobs, William H., and Timpone. 3,019,893.
Tims, Fred W., Jr., to The Camson Mfg. Co. Trowels. 3,023,444, 3–6–62, Cl. 15—235.6.
Timson, Ernest A. Apparatus for drying webs of paper or the like. 3,056,593, 10–2–62, Cl. 263—3.
Timson, Ernest A. Rotary printing machines. 3,063,369, 11–13–62, Cl. 101—247.
Timson, Ernest A. Means for drying paper and like materials. 3,063,692, 11–13–62, Cl. 263—3.
Timson, Ernest A., and A. C. B. Mathews, ½ to Timsons Ltd., and ½ to Coates Bros. & Co. Ltd. Apparatus for drying webs of paper or the like. 3,057,610, 10–9–62, Cl. 263—3.
Timsons Ltd.: *See*—
Timson, Ernest A., and Mathews. 3,057,610.
Tinbergen, William: *See*—
Frisch, Martin, Cartinhour, Tinbergen, Stern, and Tidd. 3,052,222.
Tincher, Charles J., and D. D. Cole. Mixing apparatus. 3,061,284, 10–30–62, Cl. 259—178.
Tindale, John V.: *See*—
Lefebvre, Arthur H., Rice, and Tindale. 3,043,101.
Tindall, John M. Closure means for cartons. 3,040,953, 6–26–62, Cl. 229—17.
Tindall, John M. Bacon package. 3,051,583, 8–28–62, Cl. 99—174.
Tindall, John M. Bacon package. 3,051,584, 8–28–62, Cl. 99—174.
Tindall, John M. Measuring device. 3,052,385, 9–4–62, Cl. 222—454.
Tinder, Edward F.: *See*—
Arnold, Walter C., and Tinder. 3,054,649.
Tine, Sebastian D., to Watts Regulator Co. Air line lubricator. 3,023,849, 3–6–62, Cl. 184—55.
Tingas, Arthur S., to Celanese Corp. of America. Method for treating continuous filament fabrics. 3,063,126, 11–13–62, Cl. 28—72.
Tingquist, Stanley C.: *See*—
Benson, Charles L., and Tingquist. 3,048,905.
Tingue, Brown & Co.: *See*—
Andersen, Charles H. 3,035,332.
Tinius Olsen Testing Machine Co.: *See*—
French, Richard W. 3,026,428.
Karpchuk, Sylvester. 3,026,429.
Karpchuk, Sylvester. 3,034,361.
Karpchuk, Sylvester, and Gruber. 3,020,766.
Strimel, Robert S. 3,015,315.
Tinkelenberg, Albert D.: *See*—
Dooley, Philip G., and Tinkelenberg. 3,050,942.
Tinnerman, George A. Brackets and bracket anchoring devices. 3,031,217, 4–24–62, Cl. 287—54.
Tinnerman, George A. Mounting clips or clamps. 3,066,-903, 12–4–62, Cl. 248—300.
Tinnerman Products, Inc.: *See*—
Holton, Robert J. 3,037,254.
Holton, Robert J. 3,037,729.
Holton, Robert J. 3,066,900.
Tinnin, Alice C.: *See*—
Tinnin, Lawrence L. 3,049,063.
Tinnin, Lawrence L., deceased, by A. C. Tinnin, administratrix. Self propelled earth compactor. 3,049,063, 8–14–62, Cl. 94—50.
Tinsley, George C., to Du Page Stamping & Mfg. Co. Worm drive hose clamp. 3,028,650, 4–10–62, Cl. 24—274.
Tinsley, Joseph L.: *See*—
Levy, Harold H., and Tinsley. 3,018,393.
Tinsley, Samuel W.: *See*—
Freure, Benjamin T., and Tinsley. 3,021,356.
Lynn, John W., Roberts, and Tinsley. 3,057,880.
Tinsley, Samuel W., P. S. Starcher, C. W. McGary, Jr., and C. T. Patrick, Jr., to Union Carbide Corp. Dieposy sulfone compounds. 3,019,202, 1–30–62, Cl. 260—18.
Tinsley, Samuel W., P. S. Starcher, C. W. McGary, Jr., and C. T. Patrick, Jr., to Union Carbide Corp. Epoxy ether compositions. 3,035,001, 5–15–62, Cl. 260—20.
Tinsley, Samuel W., and J. T. Fitzpatrick, to Union Carbide Corp. Production of aromatic aminoalcohols. 3,037,057, 5–29–62, Cl. 260—578.
Tint, Howard, and J. H. Brown, to American Home Products Corp. Bacterial vaccines with Hydroxybenzoates and their production. 3,035,980, 5–22–62, Cl. 167—78.
Tinto, Sophie: *See*—
Rosenthal, Adolph H., and Tinto. 3,035,491.
Tiper, Philip R.: *See*—
Sutherland, Donald M., and Tiper. 3,035,994.
Tiplitz, Charles I.: *See*—
Kishel, John J., and Tiplitz. 3,054,294.
Tipps, Jake B., to Joe Stine, Inc. Lifting and moving apparatus. 3,051,442, 8–28–62, Cl. 254—2.
Tipton, Farrell. Mechanical dumping device. 3,066,858, 12–4–62, Cl. 232—16.
Tipton, James R. Advertising device. 3,045,375, 7–24–62, Cl. 40—125.
Tip-Top Products Co.: *See*—
Hoffmann, Ernest, and Gresham. 3,067,755.
Tirado, Adalberto: *See*—
Trobeck, Karl G., Tirado, and Lenz. 3,028,295.
Tiraspolsky, Wladimir. Motors for subterranean work. 3,022,837, 2–27–62, Cl. 175—107.
Tiraspolsky, Wladimir, and R. Rouviere, to Turbodrill International Corp. Motor for subterranean work. 3,039,735, 6–19–62, Cl. 253—3.

Tiraspolsky, Wladimir, and R. F. Rouviere, to Turbodrill International Corp. Turbo-coredrill for ground drilling. 3,055,440, 9–25–62, Cl. 175—107.
Tiraspolsky, Wladimir, and R. Rouviere, Well-drilling turbines. 3,058,510, 10–16–62, Cl. 253—3.
Tirico, Arthur L.: *See*—
Onder, Kerim. 3,018,371.
Tirtiaux, Robert, and R. Tourret, to Esso Research and Engineering Co. Additive improving lubricating compositions and process of preparing them. 3,058,956, 10–16–62, Cl. 260—78.5.
Tisch, Josef. Box-filling devices for match-making machines. 3,032,952, 5–8–62, Cl. 53—236.
Tisch, Josef. Plate-guiding tracks for match-making machines. 3,055,116, 9–25–62, Cl. 34—204.
Tischbein, Wilhelm: *See*—
Weinbrenner, Erwin, Tischbein, Hoppe, and Brochhagan. 3,050,432.
Tischer, Charles W. Rhythm device. 3,059,375, 10–23–62, Cl. 46—191.
Tischler, Edward J., and B. H. Kryzer, to Union Tank Car Co. Brine tank valve. 3,029,832, 4–17–62, Cl. 137—391.
Tischler, Morris, to Electronic Aids, Inc. Electronic plastic block arrangement. 3,018,568, 1–30–62, Cl. 35—19.
Tisdale, Ernest R. Scrap tie for concrete forms. 3,016,596, 1–16–62, Cl. 25—131.
Tisdale, Norman F.: *See*—
Linz, Arthur, and Tisdale. 3,020,153.
Tisdall, Garnet H., ½ to Crew's Die Casting Corp. Rail supporting structure. 3,023,992, 3–6–62, Cl. 248—251.
Tishken, Paul. Cap holder with adjustable side members. 3,022,024, 2–20–62, Cl. 242—110.1.
Tishler, Max: *See*—
Sletzinger, Meyer, and Tishler. 3,067,200.
Tishler, Max, N. G. Steinberg, and R. F. Hirschmann, to Merck & Co., Inc. 4-pregneno-[3,2-c]pyrazoles and process of preparing them. 3,067,193, 12–4–62, Cl. 260—239.5.
Tishler, Max, N. G. Steinberg, and R. F. Hirschmann, to Merck & Co., Inc. 4,6-pregnadieno-[3,2-c] pyrazoles and process of preparing them. 3,067,194, 12–4–62, Cl. 260—239.5.
Tisinai, George F., and E. S. Troscinski, to Standard Oil Co. Method for stablizing Ni-Cr-Mo welded alloy. 3,028,268, 4–3–62, Cl. 148—13.
Tislow, Richard F., W. F. Bruce, and J. A. Page, to American Home Products Corp. 2-propionyl-10[γ-N′-β-hydroxyethyl piperazino)-propyl]-phenothiazine: process for the treatment of withdrawn psychotic subjects. 3,023,146, 2–27–62, Cl. 167—65.
Titanium Metals Corp. of America: *See*—
Covington, Loren C. 3,048,528.
Kessler, Harold D., and Mitchell. 3,038,988.
Luhan, James V. 3,061,427.
Tao, Luh C. 3,030,286.
Titchener, E. H., & Co.: *See*—
Wayne, Edward T. 3,044,109.
Titeflex, Inc.: *See*—
Phillips, John J., Ozimek, and Rademaekers. 3,023,787.
Titekote Corp.: *See*—
Neher, Maynard B., and Vely. 3,066,997.
Title, Jack. Garment. 3,016,900, 1–16–62, Cl. 128—528.
Titley, Walter J. Play pen or crib accessory for automobiles. 3,032,779, 5–8–62, Cl. 5—94.
Titsler, Wayne. Locking device for insertible cutting glade. 3,032 152, 5–1–62, Cl. 189—36.
Titsworth, John V.: *See*—
Faux, Kenneth R., and Titsworth. 3,056,304.
Faux, Kenneth R., and Titsworth. 3,069,912.
Titterton, William E.: *See*—
St. John, Alexander, N. T., Thomann, and Titterton. 3,030,253.
St. John, Alexander N. T., and Titterton. 3,050,786.
Tittes, Martin J. Two-wheel hand truck with stair walking mechanism. 3,061,323, 10–30–62, Cl. 280—5.3.
Tittle, Charles W., to Gulf Research & Development Co. Radiological sorting apparatus. 3,053,388, 9–11–62, Cl. 209—111.5.
Tittle, Kenneth, to Magnesium Elektron Ltd. Production of zirconium soaps. 3,036,101, 5–22–62, Cl. 260—414.
Tittmann, George S., to S. M. Frank & Co., Inc. Combined display container and smokers' pipe rest. 3,054,504, 9–18–62, Cl. 206—44.
Titus, Charles H., to General Electric Co. Electric circuit interrupter. 3,033,964, 5–8–62, Cl. 200—166.
Titus, De Wayne: *See*—
Guralnick, Morris, and Titus. 3,032,227.
Titus, Dudley S.: *See*—
Humphreys, Thomas W., and Titus. 3,034,896.
Titus Mfg. Corp.: *See*—
Straub, Harold E., and Averill. 3,046,866.
Titus, Richard K., to Goodyear Aircraft Corp. Method of making sandwich structures. 3,067,507, 12–11–62, Cl. 29—471.1.
Titze, Karl, to Martin Miller Aktiengesellschaft. Method of producing metal strips bilaterally tapered in cross section by cold rolling. 3,021,737, 2–20–62, Cl. 80—60.
Tixier, Maurice P., to Schlumberger Well Surveying Corp. Methods for investigating earth formations. 3,050,150, 8–21–62, Cl. 181—5.
Tjaarda, John. Composite automobile design. 3,022,105, 2–20–62, Cl. 296—28.
Tjeder, Lars-Axel. Communication call apparatus. 3,064,081, 11–13–62, Cl. 179—37.
Tjernlund, Emil J. Burner assembly. 3,045,744, 7–24–62, Cl. 158—28.
Tjernström, Ove A. R., to Allmanna Svenska Elektriska Aktiebolaget. Device for hydraulically or pneumatically controlled brakes. 3,033,325, 5–28–62, Cl. 188—170.
To-a Kako Kabushiki Kaisha: *See*—
Tanaka, Yukio. 3,023 285.
Tanaka, Yukio. 3,060,304.
Tobeler, Paul O.: *See*—
Herbold, Wolfgang K. J. 3,049,185.
Stoltz, Werner. 3,037,351.
Tober, Lawrence C.: *See*—
Childers, Spencer L., and Tober. 3,043,475.
Tobey, Alton E. Electroplating apparatus. 3,043,767, 7–10–62, Cl. 204—297.
Tobey, Frederic S., to W. H. Brady Co. Adjustable equal spacing device. 3,016,009, 1–9–62, Cl. 101—228.
Tobey, Harry, to Boeing Airplane Co. External cargo swing for aircraft. 3,044,818, 7–17–62, Cl. 294—81.
Tobey, Henry M.: *See*—
Montgomery, Robert S., and Tobey. 3,054,687.
Tobey, Raymond E., to Whirlpool Corp. Home appliance. 3,035,185, 1–2–62, Cl. 62—96.
Tobey, Silas B., to Western Electric Co., Inc. Fastener for panels and covers. 3,045,308, 7–24–62, Cl. 24—211.
Tobias, David L.: *See*—
Eisaman, Leo C., and Tobias. 3,015,790.
Tobias, Joseph J. Waistband fastening devices. 3,038,166, 6–12–62, Cl. 2—237.
Tobias, Leon. Necktie. 3,030,631, 4–24–62, Cl. 2—150.
Tobias, Stephen J., and W. Kaufman. Spiral stitching device for a sewing machine. 3,023,719, 3–6–62, Cl. 112—2.
Tobin, Clarence J.: *See*—
Hornaday, James R., Jr., Vigor, Tobin, and Holzwarth. 3,019,613.
Tobin, Frank H.: *See*—
Cohen, Gene, and Tobin. 3,060,656.
Tobin, John E. Valve assembly. 3,057,596, 10–9–62, Cl. 251—214.
Tobin, Kenneth J., to American Seal-Kap Corp. Flush-type box car door. 3,059,290, 10–23–62, Cl. 20—23.
Tobin, Kenneth J., to Evans Products Co. Freight loading equipment. 3,070,044, 12–25–62, Cl. 105—376.
Tobin, Leo W., Jr., to General Motors Corp. Inertial navigation system for aircraft. 3,027,762, 4–3–62, Cl. 73—178.
Tobin, William H., Jr., Kelley, Somos, and Tobin. 3,070,739
Hansen, Albert, Jr., Kelley, Somos, and Tobin. 3,070,739
Tobler, August. Core oils, foundry cores and moulds and methods of making the same. 3,023,112, 2–27–62, Cl. 106—38.7.
Tobler, August. No bake compositions for making molds and cores. 3,053,671, 9–11–62, Cl. 106—38.6.
Tobler, Erich: *See*—
Foster, Donald J., and Tobler. 3,033,886.
Tobolski, Alvin W., and C. C. La Cluyse. Toothbrush. 3,046,588. 7–31–62, Cl. 15—143.
Toccacelli, Nazzareno, to Farmonoterapia Richter S.p.A. Purification of heparin. 3,016,331, 1–9–62, Cl. 167—74.
Tocchetto, Virgilio D. Locks. 3,058,336, 10–16–62, Cl. 70—364.
Tocci-Guilbert, Berne. Resilient coupling. 3,036,412, 5–29–62, Cl. 51—168.
Tocci-Guilbert, Berne. Resilient coupling. 3,040,485, 6–26–62, Cl. 51—209.
Tocci-Giulbert, Berne. Safety guard for grinding machine. 3,068,620, 12–18–62, Cl. 51—268.
Tocci-Guilbert, Berne. Resilient coupling. 3,068,664, 12–18–62, Cl. 64—11.
Toce, Charles A., and R. Broussard, to Electro-Acid Corp. Electric storage battery. 3,061,662, 10–30–62, Cl. 136—166.
Toche, Jean, to Service National dit: Gaz de France. Methods of constructing fluid-tight tanks or like holders, and tanks obtained therefrom. 3,058,316, 10–16–62, Cl. 62—45.
Tochihara, Shigezo: *See*—
Hoshino, Yasushi, Namikawa, and Tochihara. 3,022,079.
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Hoshino, Yasushi, Namikawa, and Tochihara. 3 061,085.
Hoshino, Yasushi, Sato, Namikawa, and Tochihara. 3,022,078.
Tocker, Stanley, to E. I. du Pont de Nemours and Co. Polymeric compositions. 3,043,818, 7–10–62, Cl. 260—88.2.
Tocker, Stanley, to E. I. du Pont de Nemours and Co. Organic polymeric structures and process therefor. 3,062,784, 11–6–62, Cl. 260—62.
Tod, John A.: *See*—
Harris, Gerald R. 3,021,654.
Toda, Dean L., W. H. Deierhoi, Jr., and F. L. Granger, to Union Carbide Corp. Battery construction. 3,042,733, 7–3–62, Cl. 136—110.
Todd, Carl D., to Hughes Aircraft Co. High speed circuit breakers. 3,060,348, 10–23–62, Cl. 317—33.
Todd, Charles W., to E. I. du Pont de Nemours, and Co. Method for the control of weeds. 3,031,292, 4–24–62, Cl. 71—2.6.
Todd, Claude S.: *See*—
Boxshall, George W., and Todd. 3,028,073.
Todd, David B.: *See*—
Hawkinson, Donald R., and Todd. 3,062,589.

Todd, Donald V.: *See*—
Chamberlain, Merle D., and Todd. 3,039,843.
Todd, Doris E., and A. A. Willard, Sr. Corsage mounting device. 3,031,728. 5–1–62, Cl. 24—5.
Todd Electric Co., Inc.: *See*—
Todd, Sanford E. 3,034,000.
Todd, Richard F., to Carrier Corp. Ice making. 3,045,444, 7–24–62, Cl. 62—137.
Todd, Richard H., and C. D. Stambaugh, to Allergy Section of the Research Foundation of Children's Hospital of the District of Columbia. Emulsification apparatus. 3,035,820, 5–22–62, Cl. 259—98.
Todd, Sanford E., to Todd Electric Co., Inc. Appliance adapter. 3,034,000, 5–8–62, Cl. 307—156.
Todd-W Co.: *See*—
Reid, Curtis S., and Hodges. 3,035,349.
Todd, William H.: *See*—
Hause, Norman L., and Todd. 3,015,567.
Hyson, Archibald M., and Todd. 3,024,272.
Todd, William L., to FMC Corp. Automatic reset relief valve. 3,040,772, 6–26–62, Cl. 137—509.
Todhunter, Kenneth H.: *See*—
Landau, Manfred, Todhunter, and Kennaway. 3,061,421.
Todhunter, Ronald W., and D. B. Urquhart, to A.E.I.-Hotpoint Ltd. Control panels. 3,029,771, 4–17–62, Cl. 116—124.
Todman, John S., to Associated Electrical Industries (Woolwich) Ltd. Bi-stable circuits. 3,053,992, 9–11–62, Cl. 307—88.
Todnem, Odd, to Landbrukstekniskinstitutt. Apparatus for determining the moisture in cereals, grass, straw and other products. 3,016,737, 1–16–62, Cl. 73—76.
Todoran, Charles V. Electric socket adapter with fuse plug. 3,057,981, 10–9–62, Cl. 200—115.5.
Todorovic, Bogdan. Umbrella construction. 3,042,055, 7–3–62, Cl 135—20.
Todorovic, Bogdan N. Eave trough construction. 3,042,056, 7–3–62. Cl. 135—33.
Todtenhöfer, Horst, to Augusta-Zunder Feuerzeugfabrik Mayer & Co. Gas lighter. 3,018,648, 1–30–62, Cl. 67—7.1.
Toekelt, Walter G.: *See*—
Schmerling, Louis, and Toekelt. 3,021,367.
Schmerling, Louis, and Toekelt. 3,053,868.
Toelke, Lester W., to Great Lakes Carbon Corp. Bridge plug. 3,064,734. 11–20–62, Cl. 166—63.
Toellner, Edward M. Hair drier. 3,068,587, 12–18–62, Cl. 34—48.
Toennies, Owe M., to The Grove Research and Development Co. Back-switching eliminators for monorail conveyors. 3,063,383, 11–13–62, Cl. 104—99.
Toensing, Clarence H., to General Electric Co. Method of forming wire. 3,066,407, 12–4–62, Cl. 29—528.
Toensing, James W., to Remmele Engineering, Inc. Drive mechanism with continuous input and intermittent output. 3,015,236, 1–2–62, Cl. 74—84.
Toepel, Tim, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of aryloxy fatty acids. 3,054,823, 9–18–62, Cl. 260—521.
Toeppen, Thurston H., to International Business Machines Corp. Margin stop mechanism. 3,040,859, 6–26–62, Cl. 197—63.
Toepper, Marvin W.: *See*—
Simon, Selwyn, Toepper, and Kasting. 3,039,382.
Toepper, Marvin W., and H. E. Kasting, to Union Carbide Corp. Apparatus for preparing shaped meat products. 3,039,136, 6–19–62, Cl. 17—32.
Toettcher, Fred C.: *See*—
Eastman, Du Bois, Dille, Taylor, Toettcher, and Jordan. 3,048,540.
Toffiemire, Benjamin F. Combination dental instrument defining a matrix band retainer and clamping block for the band. 3,020,638, 2–13–62, Cl, 32—63.
Toffiemire, Benjamin F. Pliers for releasing retaining clamp from dental matrix band. 3,041,729, 7–3–62, Cl. 32—63.
Toffiemire, Benjamin F. Matrix band retaining clamp. 3,046,659. 7–31–62 Cl. 32—63.
Toft, Howard L. Broadcast spreader. 3,063,723, 11–13–62, Cl. 275—5.
Toftness, Irwing N. Subluxation gauge for chiropractic use. 3,049,119, 8–14–62. Cl. 128—69.
Tognella, Ugo R., to General Electric Co. Hydraulic operating system. 3,050,079, 8–21–62, Cl. 137—568.
Tognola, Tullio, to The Bendix Corp. Ignition means for ammunition primer or the like. 3,018,732, 1–30–62, Cl. 102—70.2.
Tohill, James C., to Cormac Chemical Corp. Photographer's changing bag. 3,060,819, 10–30–62, Cl. 95—1.
Toho Rayon Kabushiki Kaisha: *See*—
Saito, Shigeru. 3,045,461.
Tohoku Denki Seitetsu Kabushiki Kaisha: *See*—
Uemura, Michio. 3,033,671.
Toich, Maurice M.: *See*—
James, William J., and Friend. 3,054,530.
Tojza, Roman A.: *See*—
Hooker, Donald E., and Tojza. 3,063,715.
Tokheim Corp.: *See*—
Carnagua, Harold E., and Kruckeberg. 3,045,868.
Hoelle, James C. 3,039,658.
Kruckeberg, Christian W. 3,034,450.
Kruckeberg, Christian W. 3,042,083.
Reynolds, James A. 3,020,849.
Tokheim Corp.: *See*—Continued
Wright, George W. 3,027,211.
Wright, George W., and Foss. 3,047,011.
Wright, George W., and Foss. 3,052,378.
Wright, George W., and Yenney. 3,044,662.
Tokime, Masakata, and M. Kimura. Process for production of cyanuric chloride. 3,018,288, 1–23–62, Cl. 260—248.
Tokita, Kenji, and T. Tsukagoshi. Electric clock. 3,049,862, 8–21–62, Cl. 58—41.
Tokos, George M., and H. R. Jasper, to Crown Zellerbach Corp. Apparatus and method for heat sealing wrappers about articles. 3,044,403, 11–20–62, Cl. 53—39.
Tokushu Pompu Kogyo Kabushiki Kaisha (Special Pump Co. Ltd.): *See*—
Oto, Keijiro. 3,035,773.
Tokyo Denki Kagaku Kogyo Kabushiki Kaisha: *See*—
Hoshino, Yasushi, Sato, Namikawa, and Tochihara. 3,022,078.
Tokyo Juki Kogyo Kabushiki Kaisha: *See*—
Terayama, Denzaburo, and Toriumi. 3,064,606.
Tokyo Shibaura Denki Kabushiki Kaishi: *See*—
Minami, Yoshitada. 3,065,078.
Tokyo Shibaura Electric Co., Ltd.: *See*—
Minami, Yoshitada. 3,065,078.
Takahashi, Masao, Imaoka, and Kubouchi. 3,046,641.
Tolaas, William M., and A. H. Durand, to Waldorf Paper Products Co. Product encircling band. 3,018,938, 1–30–62, Cl. 229—40.
Toland, William G., to California Research Corp. Thiophthalide preparation. 3,031,429, 4–24–62, Cl. 260—330.5.
Toland, William G., to California Research Corp. Polymerization of aromatic nitriles. 3,060,179, 10–23–62, Cl. 260—248.
Toland, William G., to California Research Corp. Oxidation process employing sulfonic acids. 3,060,232, 10–23–62, Cl. 260—524.
Toland, William G., to California Research Corp. Aluminum titanium chloride composition. 3,061,410, 10–30–62, Cl. 23—87.
Toland, William G., to California Research Corp. Thioester production. 3,061,612, 10–30–62, Cl. 260—330.5.
Toland, William G., and M. J. Schlatter, to California Research Corp. Detergent compositions. 3,053,771, 9–11–62, Cl. 252—161.
Toland, William G., Jr., to California Research Corp. Oxidation process employing sulfites or bisulfites. 3,022,341, 2–20–62, Cl. 260—524.
Toland, William G., Jr., to California Research Corp. Aromatic carboxylic acid purification. 3,051,746, 8–28–62, Cl. 260—525.
Tolbert, Eugene, and M. M. Thomas. Machine for spreading mortar. 3,045,312, 7–24–62, Cl. 25—118.
Toledo Pipe Threading Machine Co., The: *See*—
Bollin, Robert S. 3,026,550.
Neef, Walter. 3,031,201.
Van der Velden, Hans H. 3,052,900.
Toledo Plate & Window Glass Co., The: *See*—
Heffley, Howard H. 3,047,142.
Toledo Scale Corp.: *See*—
Adler, Clarence E. 3,068,718.
Adler, Clarence E., and Hall. 3,057,547.
Baker, Donald L. 3,029,901.
Bell, Robert E., and Williams. 3,039,686.
Bell, Robert E., and Williams. 3,042,128.
Bell, Robert E., and Williams. 3,055,585.
Borden, Joseph H. 3,051,267.
Borden, Joseph H. 3,063,517.
Bradley, Robert O. 3,052,133.
Burgy, Raymond A. 3,065,823.
Burgy, Raymond A., and De Lamater. 3,022,864.
Burgy, Raymond A., and De Lamater. 3,065,824.
Dinning, John R. 3,026,971.
Dinning, John R. 3,051,268.
Gray, Geoffrey T. 3,024,973.
Gray, Geoffrey T. 3,031,955.
Hibscher, Carl W. 3,027,956.
Linville, Perman E. 3,040,295.
Moss, Robert F. 3,068,947.
Orr, Robert F. 3,027,957.
Orr, Robert F. 3,035,767.
Panter, Carl. 3,040,839.
Robson, Frederick W. 3,024,914.
Robson, Frederick W. 3,057,479.
Robson, Frederick W. 3,070,216.
Shire, Phillip H. 3,023,696.
Spademan, Charles F. 3,057,419.
Spademan, Charles F. 3,066,752.
Williams, Lawrence S. 3,035,649.
Williams, Lawrence S. 3,049,287.
Williams, Lawrence S. 3,052,404.
Williams, Lawrence S. 3,066,860.
Williams, Roger B., Jr. 3,035,648.
Williams, Roger B., Jr. 3,052,409.
Wilson, Chester K. 3,056,469.
Yeasting, Maynard C. 3,065,825.
Tolerico, Severio J., to Teletype Corp. Chip remover bellows for shaving punch. 3,035,470, 5–22–62, Cl. 83—168.
Tolf, Elmer L. Folding tent car top sleeper. 3,028,609, 4–10–62, Cl. 5—119.
Tolin, Ernest D.: *See*—
Fluegel, Dale A., and Tolin. 3,070,302.

Tolkmith, Henry, to The Dow Chemical Co. Organic compounds containing phosphorus and sulphur. 3,047,624, 7–31–62, Cl. 260—551.
Tolkmith, Henry, H. R. Slagh, and K. C. Kauer, to The Dow Chemical Co. Method for the manufacture of O-aryl phosphorodichloridothioates. 3,022,329, 2–20–62, Cl. 260—461.
Toll, Thomas A., to United States of America, National Aeronautics and Space Admin.stration. Variable sweep wing aircraft. 3,064,928, 11–20–62, Cl. 244—46.
Tollefson, Eric L. : *See*—
Clunie, John C., and Tollefson. 3,066,171.
Tollefson, Robert D., and J. R. Wilkerson, to United States of America, Navy. Passive detector with ambiguous pulse eliminator. 3,038,122, 6–5–62, Cl. 328—137.
Tolley, Noel P., to Joseph Lucus (Industries) Ltd. Transmission system for use in a vehicle. 3,058,297, 10–16–62, Cl. 60—19.
Tollison, Paul L., and C. L. Ricards, to Wood Newspaper Machinery Corp. Stereotype plate casting and finishing machine. 3,052,933, 9–11–62, Cl. 22—3.
Tollow, Frederick S., to Babcock & Wilcox Ltd. Pulverising mills. 3,044,717 7–17–62, Cl. 241—121.
Tolmon, Francis R. : *See*—
Pearce, Derek C. K., and Tolmon. 3,044,740.
Toma, Daniel N., to General Electric Co. Treating agent dispenser for wasaing machines. 3,062,032, 11–6–62, Cl. 68—207.
Toma, John W., to General Electric Co. Automatic washer-dryer including a pre-spin impulse speed and unbalance switch means. 3,055,203, 9–25–62, Cl. 68—12.
Tomanek, Martha : *See*—
Neugebauer, Wilhelm, and Tomanek. 3,028,239.
Neugebauer, Wilhelm, and Tomanek. 3,070,443.
Süs, Oskar, Klüpfel, Neugebauer, Tomanek, and Behmenburg. 3,041,165.
Tomanek, Martha, and W. Neugebauer, to Azoplate Corp. Lithographic printing plates and azido compositions therefor. 3,061,435, 10–30–62, Cl. 96—75.
Tomaro, Patrick, Jr. : *See*—
Ferrer, John J., and Tomaro. 3,058,748.
Tomaszek, Edward P., and L. R. Smith, to Avco Corp Toroidal actuator. 3,030,817, 4–24–62, Cl. 74—200.
Tomaszewski, Carl E. : *See*—
Hegel, George W., and Tomaszewski. 3,027,148.
Tomatis, Alfred A. A. Apparatus for the re-education of the voice. 3,043,913, 7–10–62, Cl. 179—1.
Tomchak, Joseph A. Tire treating apparatus. 3,017,891, 1–23–62, Cl. 134—86.
Tomcufcik, Andrew S. : *See*—
Hardy, William B., Von, and Tomcufcik. 3,027,377.
Von, Isaiah, Tomcufcik, and Hardy. 3,027,374.
Von, Isaiah, Tomcufcik, and Hardy. 3,030,368.
Tomcufcik, Andrew S., and W. B. Hardy, to American Cyanamid Co. New vat dyes. 3,027,373, 3–27–62. Cl. 260—274.
Tomek, Reinhold E., to International Business Machines Corp. Power assist servosystem. 3,060,360, 10–23–62, Cl. 318—32.
Tomek, Rudolph C. Nail holder. 3,060,442, 10–30–62, Cl. 1—49.8.
Tomeo, Louis : *See*—
Doyle, Robert. 3,054,537.
Tomes, Sidney R., to Radio Corp. of America. Signal translating system. 3,061,815, 10–30–62, Cl. 340—147.
Tominaga, Osamu : *See*—
Sonobe, Shiro, Tominaga, and Nomura. 3,043,923.
Tomioka, Keitaro : *See*—
Kainada, Hideo, Wakaki, Tomioka, Ueyama, Uzu, Marumo, and Fujimoto. 3,044,935.
Tomita, Jun : *See*—
Baba, Herbert M., and Tomita. 3,057,469.
Tomita, Jun, and H. M. Bond, to Minnesota Mining and Mfg. Co. Silicone tape. 3,059,764, 10–23–62, Cl. 206—59.
Tomita, Nob, to Beckman Instruments, Inc. Angular position locking device. 3 031,035, 4–24–62, Cl. 188—71.
Tomiyasu, Kiyo, to Sperry Rand Corp. Microwave diplexer. 3,034,076, 5–8–62, Cl. 333—9.
Tomiyasu, Kiyo, and W. F. Frost, to Sperry Rand Corp. Antenna distribution system. 3,016,531, 1–9–62, Cl. 343—17.1.
Tomka, Joseph W. : *See*—
Dorenbos, Richard E., and Tomka. 3.041.666.
Tomka, Joseph W., to Nordberg Mfg. Co. Method of deforming a workpiece. 3,062,423, 11–6–62, Cl. 225—1.
Tomka, Joseph W., to Nordberg Mfg. Co. Thimble removal press. 3,062,425, 11–6–62, Cl. 225—103.
Tomka, Joseph W., to Norberg Mfg. Co. Hydraulic press structure. 3,067,498, 12–11–62. Cl. 29—208.
Tomka, Joseph W., and R. C. Brenk, to Elmes & King Mfg. Co. Hydraulic press. 3,016,005, 1–9–62, Cl. 100—48.
Tomka, Joseph W., and F. G. Cizek, to Nordberg Mfg. Co. Electrode bar straightener. 3,051,216, 8–28–62, Cl. 153—32.
Tomkins-Johnson Co., The : *See*—
Corwin, Howard D. 3,038,448.
Tomkinson, Francis M. : *See*—
Cheney, Charles W. B. 3,025,692.
Cheney, Charles W. B. 3,026,135.
Cheney, Charles W. B. 3,030,137.
Tomko, Donald R. : *See*—
Sacchini, Columbus R., and Tomko. Re. 25,229.
Tomlinson, George H., to Dominion Tar and Chemical Co. Apparatus for separating dirt from aqueous suspensions of pulp fibers. 3,037,628, 6–5–62, Cl. 209—211.
Tomlinson, George H., and G. H. Tomlinson II, to Howard Smith Paper Mills, Ltd. Sulphite pulping process. 3,046,-182, 7–24–62, Cl. 162—36.
Tomlinson, George H., II : *See*—
Tomlinson, George H., and G. H. Tomlinson II. 3,046,-182.
Tomlinson, Jerry G., to General Motors Corp. Flame tube. 3,064,424, 11–20–62, Cl. 60—39.65.
Tomlinson, John K. Slide suspension. 3,033,638, 5–8–62, Cl. 312—338.
Tomlinson, Peter B. Sail track lubricator. 3,058,138, 10–16–62, Cl. 15—210.
Tomlinson, Terence B. : *See*—
Bayliss, Alan J., Gardner, and Tomlinson. 3,030,513.
Tomlinson, Terence B., to The General Electric Co. Ltd. Photoconductive devices. 3,026,417, 3–20–62, Cl. 250—211.
Tomion Corp. : *See*—
Sutherland, Lionel M., and Paris. 3,046,183.
Tomolonius, William A., to United States of America, Navy. Split combustion liner. 3,031,844, 5–1–62, Cl. 60—39.69.
Tomonoh, Haruki, and T. Teshirogi. Device for assembling the circuits elements. 3,029,367, 4–10–62, Cl. 317—101.
Tompkin, John B., to Girling Ltd. Fluid pressure actuators. 3,060,897, 10–30–62, Cl. 121—38.
Tompkins, Ethel C. Welder's helmet and shield. 3,067,426, 12–11–62, Cl. 2—8.
Tompkins, George M., to Putco Operating and Technical Services Ltd. Hydraulic jumper extractor. 3,059,905, 10–23–62, Cl. 254—30.
Tompkins, Howard E., to Burroughs Corp. Digital-to-analog converters. 3,070,788, 12–25–62, Cl. 340—347.
Tompkins, Russell E. : *See*—
Edgar, Robert F., and Tompkins. 3,042,862.
Tompos, Anthony : *See*—
Schemel, Raymond E., and Tompos. 3,040,235.
Tompson, Clement H., to Zenith Radio Corp. Wave-signal receiver. 3,029,772, 4–17–62, Cl. 116—124.4.
Tomsic, William J. : *See*—
Smith, Kenneth A., and Tomsic. 3,041,273.
Tomson, Richard J., to Du Pont of Canada Ltd. Double valve bag. 3,050,235, 8–21–62, Cl. 229—62.5.
Tomaszek, Anthony J. Arcless switch. 3,043,941, 7–10–62, Cl. 200—152.
Tone, James L. : *See*—
Wood, George R., and Tone. 3,039,792.
Tone, John W. : *See*—
Freedman, Lawrence I., and Tone. 3,027,585.
Freedman, Lawrence I., and Tone. 3,057,364.
Tone, Melvin N. : *See*—
Youmans, Donald W., and Tone. 3,060,968.
Tonelli, Michele, to Olivetti, Ing. C. & C., S.p.A. Transistorized telegraph receiving unit. 3,018,333, 1–23–62, Cl. 178—88.
Tonelli, Pietro de P., G. Losco, G. Rossi, and R. Santi, to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Control of the olive fly by application of products containing O,O - dimethylthiophosphorylacetic acid monomethylamide. 3,026,243, 3–20–62, Cl. 167—22.
Toney, John J. : *See*—
Frey, Paul E., and Toney. 3,062,520.
Tongue, Ben H., to Blonder-Tongue Electronics. System for wide-band neutralization. 3,044,022, 7–10–62, Cl. 330—78.
Tonkin, James H. : *See*—
Warner, Benjamin F., Tonkin, and Shaw. 3,066,728.
Tonks, Levi, to United States of America, Atomic Energy Commission. Control means for neutronic reactors. 3,048,-534, 8–7–62, Cl. 204—193.2.
Tonna, Arthur J. : *See*—
Sariotti, Victor A., and Tonna. 3,064,663.
Tonna Engineering Co., Inc. : *See*—
Anderson, Glenn V. 3,047,893.
Tonne, Chase D. : *See*—
Lecher, Hans Z., Mador, and Tonne. 3,062,888.
Tonne, Friedrich. Pneumadic tube plant. 3,053,475, 9–11–62, Cl. 243—16.
Tonnies, Eduard, and W. Fricke, to Hamburger Flugzeugbau G.m.b.H. Multiple engine jet-propulsion drive and thrust reverser for aircraft. 3,060,685, 10–30–62, Cl. 60—35.54.
Tonolo, Antonio : *See*—
Chain, Ernst B., Bonino, and Tonolo. 3.038.840.
Chain, Ernst B., Bonino, and Tonolo. 3,060,104.
Tonsfeldt, Wayne S. Beet topping and harvesting machine. 3.060.667, 10–30–62 Cl. 56—121.45.
Tonzetich, Joseph, to Colgate-Palmolive Co. Dentifrice compositions comprising sarcosides with calcium polyphosphate and hydrated aluminum oxide polishing agents. 3,033,756, 5–8–62, Cl. 167—93.
Toogood, John B., to Union Carbide Corp. Process for producing silicone resins. 3,018,270. 1–23–62, Cl. 260—46.5.
Toohig, Michael F., and C. L. Day, to International Telephone and Telegraph Corp. Method of making charge storage electrodes for charge storage tubes. 3,015,586, 1–2–62, Cl. 117—201.
Tooke, James W., to Phillips Petroleum Co. In situ combustion process. 3,044,545, 7–17–62, Cl. 166—11.
Toomey, David F. : *See*—
Toth, Frederick J., and Toomey. 3,062,302.
Toomey, John F. : *See*—
Booth, Seth W., Toomey, and Brown. 3,017,833.
Toomey, John F., to United States of America, Army. Geared timing mechanism. 3,017,781, 1–23–62, Cl. 74—125.5.

Toomey, John F. Sound responsive coded signal mine. 3,026,799, 3–27–62, Cl. 102—18.
Toomey, John F. Rocket control system. 3,041,937, 7–3–62, Cl. 89—1.7.
Toomey, Robert F., to Gil Mfg. Co. Method of porcelain enameling ferrous metal and product. 3,043,712, 7–10–62, Cl. 117—50.
Toone, Gilbert C., to Allied Chemical Corp. Polyurethane foam resistant to discoloration and process for making same. 3,053,778, 9–11–62, Cl. 260—2.5.
Tooni, Doris H.: *See*—
Tooni, Neal N. 3,056,951.
Tooni, Neal N., deceased; D. H. Tooni, administratrix. Safe alarm system. 3,056,951, 10–2–62, Cl. 340—224.
Toops, Emory E., Jr.: *See*—
Stengel, Leonard A., and Toops. 3,054,702.
Stengel, Leonard A., and Toops. 3,061,489.
Tootelian, George D., to I-T-E Circuit Breaker Co. Circuit breaker arcing contact construction. 3,020,374, 2–6–62, Cl. 200—146.
Topanelian, Edward, Jr.: *See*—
En Dean, Howard J., Jones, and Topanelian. 3,016,733.
Huitt, Jimmie L., Pekarek, and Topanelian. 3,050,122.
Toper, Robert C. Outdoor cooking unit. 3,019,720, 2–6–62, Cl. 99—339.
Topf, Sam B., to Jordan Industries, Inc. Reversible pipe cap. 3,065,767, 11–27–62, Cl. 138—89.
Topflight Co.: *See*—
Huber, Erwin W. 3,024,155.
Topinka, George F., and Z. J. Lansky, to Parker-Hannifin Corp. Piston cushion for fluid operated cylinder. 3,056,-385, 10–2–62, Cl. 121—38.
Topol, George J., to Bowser, Inc. Water detector for fuels. 3,049,9 8–22–62, Cl. 73—53.
Topper, John M., and S. H. Silver, to International Shoe Co. Shoe with elastic goring. 3,040,454, 6–26–62, Cl. 36—51.
Toppi, Daniel S. Two part key holders. 3,024,915, 3–13–62, Cl. 211—13.
Topping, Jack A. Gold instruction harness. 3,069,169, 12–18–62. Cl. 273—189.
Toppins, Charles R.: *See*—
Dempster, George R., Herpich, and Toppins. 3,064,834.
Torbin, Milton A.: *See*—
Morrow, Andrew S., Brewer, and Torbin. 3,052,629.
Torell, Bruce N., to United Aircraft Corp. Vapor burning system for aircraft power plant. 3,039,720, 6–19–62, Cl. 244—74.
Torell, Bruce N., to United Aircraft Corp. Afterburner control for a multispool gas turbine power plant. 3,056,256, 10–2–62, Cl. 60—35.6.
Torgerson, Arnold T., to The Electric Storage Battery Co. Flashlight. 3,065,337, 11–20–62, Cl. 240—10.65.
Torgeson, Dewayne C., E. Marcus, and J. A. Lambrech, to Union Carbide Corp. 1-substituted pyrenes as fungicides. 3,055,801, 9–25–62, Cl. 167—30.
Torino, Henry, ½ to E. Minuti. Hot plate pot heater. 3,054,-395, 9–18–62, Cl. 126—375.
Toriumi, Hiroshi: *See*—
Terayama, Denzaburo, and Toriumi. 3,064,606.
Torjesen, Inc.: *See*—
Hollands, George. 3,063,105.
Torjusen, Rudolf. Article of furniture. 3,043,627, 7–10–62, Cl. 297—456.
Torkar, Karl: *See*—
Worel, Heinrich, and Torkar. 3,027,231.
Torkar, Karl, and O. Bergmann, to Peter Spence & Sons Ltd. and Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Production of amorphous aluminas. 3,038,784, 6–12–62, Cl. 23—143.
Torn, Lawrence J., and J. P. Philbin, to Cutler-Hammer, Inc. Gaging apparatus. 3,046,533, 7–24–62, Cl. 340—178.
Tornquist, Nils M., to Continental Can Co., Inc. Dispenser for granular products. 3,037,673, 6–5–62, Cl. 222—185.
Törnqvist, Bengt W. Device for handling vehicles. 3,061,-354, 10–30–62. Cl. 294—74.
Tornqvist, Erik: *See*—
Langer, Arthur W., Jr., Mertzweiller, Gamble, and Tornqvist. 3,063,798.
Langer, Arthur W., Jr., and Tornqvist. 3,032,509.
Langer, Arthur W., Jr., and Tornqvist. 3,032,511.
Langer, Arthur W., Jr. and Tornqvist. 3,047,558.
Tornqvist, Erik, and A. W. Langer, Jr., to Esso Research and Engineering Co. Polymerization catalyst. 3,032,510, 5–1–62, Cl. 252—429.
Tornqvist, Erik, and A. W. Langer, Jr., to Esso Research and Engineering Co. Catalyst preparation process. 3,032,-513, 5–1–62 Cl. 252—442.
Tornqvist, Erik, and C. W. Seelbach, to Esso Research and Engineering Co. Method of preparing catalyst composites. 3,034,992, 5–15–62, Cl. 252—429.
Tornqvist, Erik, and A. W. Langer, Jr., to Esso Research and Engineering Co. Olefin polymerization process. 3,046,264, 7–24–62, Cl. 260—93.7.
Toro, Joseph A., to Bell Telephone Laboratories, Inc. Temperature compensated capacitor. 3,061,767, 10–30–62, Cl. 317—247.
Toro Mfg Corp.: *See*—
Horner, Herbert F., Kroll, and Benson. 3,049,853.
Torok, Julius J., to Kimble Glass Co. Plunger for forming glass articles. 3,054,220, 9–18–62, Cl. 49—68.
Toronto, Thomas. Removable utility box. 3,069,064, 12–18–62, Cl. 229—43.
Torque Industries, Inc.: *See*—
Cole, Howard W., Jr. 3,028,761.
Torr, David. Poultry product and method. 3,024,113, 3–6–62, Cl. 99—107.
Torr, David. Disposable multi-ply product. 3,070,095, 12–25–62, Cl. 128—284.
Torre, Pier L., to Innocenti Soc. Gen. per l'Industria Metallurgica e Meccanica. Two-stroke internal combustion engines. 3,059,624, 10–23–62, Cl. 123—59.
Torre, Pier L., ½ to Innocenti Soc. Gen. per l'Industria Metallurgica e Meccanica. Two-stroke internal combustion engine. 3,059,625, 10–23–62, Cl. 123—59.
Torrence, Ronald M., to The Torrington Co. Thread guide unit. 3,046,764, 7–31–62. Cl. 66—86.
Torrence, Ronald M., to The Torrington Co. Yarn guide unit. 3,046,765 7–31–62. Cl. 66—86.
Torres, David, to The Vendo Co. Vending machine for cylindrical objects having jam preventing means. 3,026,002, 3–20–62, Cl. 221—67.
Torres, Jorge, to On Mark Couplings, Inc. Quick disconnect coupling for fluid lines. 3,023,030, 2–27–62, Cl. 285—18.
Torresen, Carel T. Retractable blind bolt having radially constructible and expandable work engaging means. 3,026,-761, 3–27–62, Cl. 85—2.4.
Torrey, Anthony J. Blade frame and vehicle coupler. 3,020,066, 2–6–62, Cl. 280—510.
Torrey, Bradford M.: *See*—
Slattery, Thomas G., and Torrey. 3,049,697.
Torrington Co., The: *See*—
Oberem, William C. 3,022,651.
Torrence, Ronald M. 3,046,764.
Torrence, Ronald M. 3,046,765.
Virtue, Byron T. 3,022,650.
White, Robert H. 3,065,634.
Torrington Mfg. Co., The: *See*—
Atalla, Anwar A. 3,028,072.
Bergevin. Charles R 3,068,927.
Vogt, Werner. 3,052,392.
Toruk, Nicholas: *See*—
Meyer, Barthold F., and Toruk. 3,033,946.
Toscano, Michael: *See*—
Heinrich, Chester J., Kornylak, and Toscano. 3,020,993.
Toscony Fabrics Inc.: *See*—
Jerothe, Rudolph A. 3,020,194.
Toscony, Inc.: *See*—
Jerothe, Rudolph A. 3,036,927.
Jerothe, Rudolph A. 3,050,784.
Toth, Frederick J., and D. F. Toomey, to Shell Oil Co. Indicator device for bearing failures in drill bits. 3,062,302, 11–6–62, Cl. 175—39.
Toth, Paul: *See*—
Hohwart, George, and Toth. 3,069,181.
Toth, Peter, Jr., and A. N. Wiegner, Jr., to Western Electric Co., Inc. Helix winding machine. 3,039,706, 6–19–62, Cl. 242—9.
Tothill, Charles E. B., to Texaco Inc. Fluid sampling apparatus. 3,024,660, 3–13–62, Cl. 73—424.
Toton, Edward J.: *See*—
Miller Richard C., and Toton. 3,050,662.
Totten, Floyd M.: *See*—
Majerus, John B., and Totten. 3,032,757.
Totten, John A., to Rock-Ola Mfg. Corp. Control means for dispensing device. 3,033,422, 5–8–62, Cl. 222—52.
Tottingham, Roy D., to Collins Radio Co. Pulse forming circuit using momentarily conducting transistor base-emitter leakage current to charge timing capacitor. 3,059,129, 10–16–62, Cl. 307—88.5.
Touart, Robert L., to General Foods Corp. Technique of bundling. 3,058,586, 10–16–62, Cl. 206—65.
Touchman, William S.: *See*—
Harruff, Ray W., and Touchman. 3,018,947.
Touchman, William S., and L. A. Barnes, to United Shoe Machinery Corp. Work guidance mechanisms. 3,034,781, 5–15–62, Cl. 271—1.
Touey, George P.: *See*—
Kiefer, John E., and Touey. 3,033,698.
Kiefer, John E., and Touey. 3,038,780.
Kiefer, John E., and Touey. 3,068,063.
Touey, George P., to Eastman Kodak Co. Bonding additives onto filament filters. 3,021,242, 2–13–62, Cl. 156—180.
Touey, George P., to Eastman Kodak Co. Tobacco smoke filter. 3,033,209, 5–8–62. Cl. 131—10.
Touey, George P., to Eastman Kodak Co. Method for making additive filters. 3,043,736, 7–10–62, Cl. 156—152.
Touey, George P., to Eastman Kodak Co. Petroleum wax for paper coatings. 3,053,677, 9–11–62. Cl. 106—162.
Touey, George P., and R. C. Mumpower, II, to Eastman Kodak Co. Process of manufacturing filters. 3,026,226, 3–20–62, Cl. 154—91.
Touey, George P., and H. E. Davis, to Eastman Kodak Co. Mixed esters of lactose. 3,030,356, 4–17–62, Cl. 260—234.
Touey, George P., and J. E. Kiefer, to Eastman Kodak Co. Tobacco smoke filter containing polyolefin cobweb additive. 3,033,212, 5–8–62, Cl. 131—208
Touey, George P., and R. C. Mumpower, II, to Eastman Kodak Co. Method for producing rigid tobacco smoke filters. 3,038,478, 6–12–62, Cl. 131—208.
Touey, George P., and D. J. Brown, to Eastman Kodak Co. Textile yarn sized with sodium cellulose acetate sulfate. 3,053,696, 9–11–62, Cl. 117—139.5.

Touey, George P., and R. H. Goins, to Eastman Kodak Co. Esterification by means of methane disulfonic acid and methane tri sulfonic acid catalysts. 3,053,884, 9–11–62, Cl. 260—475.

Touey, George P., and H. E. Davis, to Eastman Kodak Co. Non-crystallizing sucrose lower fatty acid esters and compositions thereof. 3,057,743, 10–9–62, Cl. 106—169.

Touey, George P., and H. E. Davis, to Eastman Kodak Co. Water insoluble cyanoethyl sucrose ethers. 3,068,220, 12–11–62, Cl. 260—209.

Toulis, William J. Spherical acoustical lens system for focusing underwater sound. 3,017,608, 1–16–62, Cl. 340—5.

Toulis, William J. Apparatus for controlling the effective compressibility of a liquid. 3,021,504, 2–13–62, Cl. 340—5.

Toulmin, Harry A., Jr., to Basic Research Corp. Method and apparatus for generating electrical power from solar energy. Re. 25,242, 9–11–62, Cl. 136—4.

Toulmin, Harry A., Jr., to Commonwealth Engineering Co. Catalyzed metal fuel. Re. 25,277, 10–30–62, Cl. 149—6.

Toulmin, Harry A., Jr., to The Commonwealth Engineering Co. of Ohio. Recovery of fresh water from sea water. 3,019,611, 2–6–62, Cl. 62—58.

Toulmin, Harry A., Jr., to The Commonwealth Engineering Co. of Ohio. Sound deadening tile. 3,022,607, 2–27–62, Cl. 50—101.

Toulmin, Harry A., Jr., to The Commonwealth Engineering Co. of Ohio. Paper holder. 3,025,082, 3–13–62, Cl. 281—21.

Toulmin, Harry A., Jr., to Rea Magnet Wire Co., Inc. Encapsulated coils and method of making. 3,028,446, 4–3–62, Cl. 174—110.

Toulmin, Harry A., Jr., to Union Carbide Corp. Gas plating bumpers. 3,030,225, 4–17–62, Cl. 117—37.

Toulmin, Harry A., Jr., to Commonwealth Engineering Co. Solid jet or rocket fuel. 3,032,451, 5–1–62, Cl. 149—109.

Toulmin, Harry A., Jr., to Union Carbide Corp. Laminates of metal plated glass fibers and methods of making same. 3,046,170, 7–24–62, Cl. 154—43.

Toulmin, Harry A., Jr., to Lars E. Birbach. Swimming aid. 3,049,736, 8–21–62, Cl. 9—340.

Toulmin, Harry A., Jr., to Basic Research Corp. Apparatus for rendering fabrics antistatic. 3,062,180, 11–6–62, Cl. 118—320.

Toulmin, Harry A., Jr., to The Commonwealth Engineering Co. of Ohio. Arrangement for reading out cards and sorting device therefor. 3,066,798, 12–4–62, Cl. 209—111.5.

Toulmin, Harry A., Jr., to The Commonwealth Eng. Co. of Ohio. Method and apparatus for sterilizing water. 3,069,-735, 12–25–62, Cl. 21—91

Toulmin, Harry A., Jr., to Commonwealth Eng. Co. Method and apparatus to sterilize pump water as and when it is pumped. 3,069,736, 12–25–62, Cl. 21—91.

Toulmin, Harry A., Jr. to The Commonwealth Eng. Co. of Ohio. Propulsion means and method for space vehicles. 3,069,840, 12–25–62, Cl. 60—35.4.

Toulmin, Harry A., Jr., to The Commonwealth Eng. Co. of Ohio. Catalyzed fuel mixture and method of burning. 3,069,854, 12–25–62, Cl. 60—39.02.

Toulmin, Harry A., Jr., to The Commonwealth Eng. Co. of Ohio. Jet press. 3,070,007, 12–25–62, Cl. 100—264.

Toulmin, Harry A., Jr., to The Commonwealth Engineering Co. of Ohio. Apparatus for land transportation. 3,070,-038, 12–25–62, Cl. 104—242.

Toulmin, Harry A., Jr., to Basic Research Inc. Control apparatus for synchronizing aircraft propellers. 3,070,173, 12–25–62, Cl. 170—135.29.

Toulmin, Harry A., Jr., to Basic Research Inc. Speed control apparatus for aircraft propellers. 3,070,174, 12–25–62, Cl. 170—160.17.

Toulmin, Harry A., Jr., to Basic Research Corp. Process of splitting steroids. 3,070,512, 12–25–62, Cl. 195—51.

Toulmin, Harry A., Jr., to Basic Research Corp. Process of splitting steroids. 3,070,513, 12–25–62, Cl. 195—51.

Toulmin, Harry A., Jr., to The Commonwealth Engineering Co. of Ohio. Method and apparatus for generating electrical power from solar energy. 3,070,643, 12–25–62, Cl. 136—4.

Toulon, Pierre M., to Moore & Hall. Improvements in light source control and modulation. 3,050,654, 8–21–62, Cl. 313—108.

Toulon, Pierre M. G., to Moore and Hall. Television system for high definition and secrecy of image. 3,065,294, 11–20–62, Cl. 178—5.1.

Touraton, Emile, and J. P. Le Corre, to International Standard Electric Corp. Switching systems between multiplex communication channels. 3,049,593, 8–14–62, Cl. 179—15.

Tournaire, Marcel, to Compagnie General du Duralumin et du Cuivre. Guillotine shears. 3,040,611, 6–26–62, Cl. 83—636.

Tournarie, Max: *See*—
Berge, Pierre, and Tournarie. 3,061,027.

Tournier, Michel: *See*—
Jahan, Christian, and Tournier. 3,066,138.

Tourret, Roger: *See*—
Tirtiaux, Robert, and Tourret. 3,058,956.

Tourtellot, John A., to Radio Corp. of America. Automatic phonograph record player. 3,058,749, 10–16–62, Cl. 274—10.

Tourtellot, John A., to Radio Corp. of America. Stereophonic signal translating circuits. 3,059,065, 10–16–62, Cl. 179—100.4.

Tousignant, William F.: *See*—
Bakke, William W., and Tousignant. 3,058,849.
Moore, Carl, and Tousignant. 3,047,611.
Walles, Wilhelm E., and Tousignant. 3,054,764.
Walles, Wilhelm E., Tousignant, and Cloninger. 3,067,-143.

Tousignant, William F., to The Dow Chemical Co. (2,2-dihalocyclopropyl) styrenes. 3,044,999, 7–17–62, Cl. 260—91.5.

Tousignant, William F., W. E. Walles, and T. Houtman, Jr., to The Dow Chemical Co. N-vinyl-2-oxazinidinone compounds. 3,030,339, 4–17–62, Cl. 260—77.5.

Tousignant, William F., and W. E. Walles, to The Dow Chemical Co. Ring-substituted n-allyl-2-oxazolidinone compounds and polymers thereof. 3,033,830, 5–8–62, Cl. 260—77.5.

Toussaint & Hess Hydraulische Hebezeugfabrik G.m.b.H.: *See*—
Becker, Hans. 3,034,805.
Becker, Hans. 3,063,738.

Toussaint, Walter J.: *See*—
Bailey, Frederick E., Jr., and Toussaint. 3,058,959.

Touton, Rush D., to Wurton Machine Co. Cigar. 3,016,903, 1–16–62, Cl. 131—11.

Touton, Rush D. Method of curing green tobacco. 3,024,792, 3–13–62, Cl. 131—140.

Tove, Per A., to Kohlswa Jernverks Aktiebolag. Method and device for pulverizing and/or decomposing solid materials. 3,067,956, 12–11–62, Cl. 241—1.

Tower, Walter R., H. J. Strauss, and C. A. Tereszkiewicz, to Sperry Rand Corp. Video intensification system. 3,034,-117, 5–8–62, Cl. 343—11.

Towey, John P.: *See*—
Ratcliff, Karl A., Dorrance, and Towey. 3,062,711.
Ratcliff, Karl A., Dorrance, and Towey. 3,066,073.

Towey, John P., T. Van Wyke, K. A. Ratcliff, and W. A. Dorrance, to Diamond Laboratories. Method of preparing hydrated calcium phosphate gels. 3,027,229, 3–27–62, Cl. 23—109.

Towle, Elton L., to Worthington Corp. Flow control means for a pumping station. 3,024,730, 3–13–62, Cl. 103—11.

Towle, George B.: *See*—
Tyler, John M., and Towle. 3,027,713.

Towle, Jack L., to The Harshaw Chemical Co. Preparation of dinitrodiphenylether. 3,032,594, 5–1–62, Cl. 260—612.

Towle Mfg. Co.: *See*—
Ewing, Nelson, and Hargraves. 3,059,349.

Towle, Warren L.: *See*—
Ruhoff, John R., Towle, Moss, and Terry. 3,029,131.

Towler, James F., to Industrial Development Engineering Associates, Inc. Converter and method of signal conversion. 3,054,058, 9–11–62, Cl. 325—451.

Towles, Edward A.: *See*—
Russell, Robert J., Cella, and Towles. 3,053,402.

Towlsaver, Inc.: *See*—
Layton, J. C. 3,029,035.
Layton, J. C. 3,069,214.
Layton, J. C., and Perrin. 3,038,598.

Towmotor Corp.: *See*—
Christenson, James J. 3,019,926.
Christenson, James J., and Maloney. 3,031,203.
Christenson, James J., and Maloney. 3,045,848.
Shaffer, Walter M. 3,039,268.
Shaffer, Walter M. 3,039,638.

Town, Clinton D. Feathered paddle-type propulsion mechanism. 3,027,863, 4–3–62, Cl. 115—26.

Towne, Claude M., to General Metals Corp. Retainer for bucket teeth. 3,022,586, 2–27–62, Cl. 37—142.

Towne, Claude M., and J. L. Brady, to General Metals Corp. Spring retainer for bucket teeth. 3,025,619, 3–20–62, Cl. 37—142.

Towne, Richard C., and J. V. Stalcup. Mooring anchor. 3,015,299, 1–2–62, Cl. 114—208.

Townend, Robert V., and J. E. Wilkalis, to Allied Chemical Corp. Catalytic conversion of hexavalent uranium to uranium tetrafluoride. 3,029,129, 4–10–62, Cl. 23—14.5.

Towner Mfg. Co.: *See*—
Coughran, Samuel J. 3,063,737.
Heckathorn, Loyd E. 3,044,313.
Heckathorn, Loyd E., and Coughran. 3,042,120.

Townley, Eustace R.: *See*—
Smith, Robert C. M., and Townley. 3,061,433.

Towns, Truman W., to Ford Motor Co. Self-adjusting brake. 3,016,990, 1–16–62, Cl. 188—79.5.

Townsen, Harold J.: *See*—
Grenley, Dallas G., Beebe, and Townsend. 3,061,562.

Townsend, Bruce A.: *See*—
Aldred, Fred C., Grew and Townsend. 3,069,784.

Townsend Co.: *See*—
Simmons, Walter R. 3,038,626.
Simmons, Walter R. 3,039,270.

Townsend Engineering Co.: *See*—
Townsend, Ray T. 3,036,332.

Townsend, George E. Fuel mixture heater for automobiles. 3,024,778, 3–13–62, Cl. 123—122.

Townsend, Jonathan, and B. Commoner. Geological prospecting process and apparatus. 3,060,371, 10–23–62, Cl. 324—.5.

Townsend, Mark A.: *See*—
Kretzmer, Ernest R., and Townsend. 3,034,077.

Townsend, Ralph : *See*—
Womersley, John R., and Townsend, 3,062,446.
Townsend, Ralph, to International Computers and Tabulators Ltd. Electronic adding circuits. 3,019,979, 2–6–62, Cl. 235—170.
Townsend, Ray T., to Townsend Engineering Co. Continuous meat stuffer. 3,036,332, 5–29–62, Cl. 17—35.
Townsend, Stephen E. : *See*—
Rugaber, Robert H., Wheeler, and Townsend. 3,037,130.
Townshend, Henry H., Jr., ½ to Jarvis Corp., and ½ to J. T. Henry Mfg. Co., Inc. Percussive tool. 3,040,711, 6–26–62, Cl. 121—21.
Townsley, Malcolm G., to Bell & Howell Co. Intermittent film feeding device. 3,044,676, 7–17–62, Cl. 226—71.
Townson, William D., Jr. Pallet-formed storage rack. 3,017,151, 1–16–62, Cl. 248—120.
Towry, Robert K. Chain link with keyed removable wear insert. 3,053,168, 9–25–62, Cl. 59—84.
Towsley, Donald D. : *See*—
Eichelman, John M. and B. S., and Towsley. 3,050,889.
Eichelman, John M. and B. S., Towsley, F. E. and J. F. Moffett, and Zeltner. 3,025,648.
Towsley, LeRoy M. : *See*—
Andrew, Harold B., Hipkins, and Towsley. 3,016,310.
Toy, Arthur D. F., and R. S. Cooper, to Victor Chemical Works. Process for producing phenylphosphonous dichloride. 3,029,282, 4–10–62, Cl. 260—543.
Toy, Arthur D. F., and J. E. Blanch, to Stauffer Chemical Co. Method for preparing pyrophosphoryl chloride. 3,034,862, 5–15–62, Cl. 23—203.
Toy, Gerald R., and M. E. Krasnow, to Union Carbide Corp. Process of blending polyethylene and diatomaceous earth and product thereof. 3,028,355, 4–3–62, Cl. 260—41.
Toy, Walter W. : *See*—
Jordan, Arthur D., Jr., and Toy. 3,037,952.
McLaughlin, Paul J., and Toy. 3,017,291.
Miller, Edgard W., and Toy. 3,048,501.
Sweeney, Edward J., Toy, and McLaughlin. 3,020,178.
Zdanowski, Richard E., and Toy. 3,061,564.
Zdanowski, Richard E., Toy, Larsson, and Kine. 3,061,563.
Toyama, Akira : *See*—
Yamamoto, Akira, and Toyama. 3,045,557.
Toymaster Products Co., Inc. : *See*—
Beder, Samuel L. 3,027,060.
Mathes, Robert H., and Hiller. 3,033,570.
Toyne, Gordon B. : *See*—
Potter, Raymond J., and Toyne. 3,028,120.
Toyo Calorizing Kogyo Kabushiki Kaisha : *See*—
Kawashima, Chihiro, and Nakahira. 3,036,929.
Toyo Kinzokukagaku Kabushikikaisha : *See*—
Takada, Koji. 3,070,521.
Toyo Koatsu Industries, Inc. : *See*—
Fujise, Seiichi, Nagai, and Mitsunaga. 3,063,803.
Inaba, Yanosuke, Miyake, and Kimura. 3,046,254.
Inaba, Yanosuke, Miyake, and Kimura. 3,054,777.
Nahara, Hajime, Miwa, Ueno, and Morita. 3,060,211.
Toyota Motor Co. Ltd. : *See*—
Kato, Masumi, and Kamimura. 3,049,742.
Toyotsushinki Kabushiki Kaisha (known as Toyo Communication Equipment Co., Ltd.) : *See*—
Honda, Seiichi, and Nakazawa. 3,015,789.
Toyozawa, Yoji. Precise measuring method for an inner diameter of a cylinder. 3,061,939, 11–6–62, Cl. 33—178.
Tozydlo, Alfred J. : *See*—
Reuter, Raymond, and Tozydlo. Re. 25,252.
Tozza, Nicholas W. Automobile speed limiting means. 3,023,634, 3–6–62, Cl. 74—526.
Traben, Josef, to Klara Linck, d.b.a. Linck Maschinenfabrik und Eisengiesserei "Gatterlinck," Gebruder. Dividing wood, especially round timber logs. 3,032,084, 5–1–62, Cl. 144—326.
Trabon Engineering Corp. : *See*—
Callahan, James J. 3,038,557.
Robson, Norman S., and Gordon. 3,025,929.
Trace, James C., and G. T. Edds, to American Home Products Corp. Anthelmintic composition and method of destroying animal parasites utilizing said composition. 3,067,096, 12–4–62, Cl. 167—53.
Tracer Control Co. : *See*—
Goldman, Daniel. 3,053,106.
Tracey, John E., and E. L. Wheeler, to The Bendix Corp. Method of making a cutting die assembly. 3,043,165, 7–10–62, Cl. 76—107.
Tracht, Joseph H., to Gulf Research & Development Co. Chromatographic method and apparatus. 3,053,077, 9–11–62, Cl. 73—23.
Tracht, Joseph H., to Gulf Research & Development Co. Catalyst coated thermocouple elements. 3,070,645, 15–25–62, Cl. 136—4.
Trachta, Josef : *See*—
Pluhacek, Rudolf, and Trachta. 3,027,599.
Trachta, Joseph E., and C. O. Rodriquez, to International Minerals & Chemical Corp. Flotation of granular ores. 3,016,143, 1–9–62, Cl. 209—166.
Trachtenburg, Harold, and D. D. Ritson, to American Cyanamid Co. Self-insolubilizing mineral pigment coating compositions for paper comprising a water-soluble anionic polymer adhesive and a water-soluble alum-sequestering agent complex. 3,057,811, 10–9–62, Cl. 260—29.6.
Trachy, Richard A. : *See*—
Foin, Warren C., Gregory, Hartman, and Trachy. 3,026,037.
Tracy, Abble V., 1/10 to Gadget-Of-The-Month Club, Inc. Knitting accessory and container. 3,052,391, 9–4–62, Cl. 223—107.
Tracy, Charles B. : *See*—
Hammer, Martin, La Croix, and Tracy. 3,052,530.
Kawahara, Freo K., Brown, and Tracy. 3,065,742.
Tracy, Gerald T., to National Can Corp. Container. 3,021,976, 2–20–62, Cl. 220—66.
Tracy, Herbert E., to Borg-Warner Corp. Multi-step mechanical seal. 3,015,506, 1–2–62, Cl. 286—11.14.
Tracy, Herbert E., to Borg-Warner Corp. Presetting means for mechanical seals. 3,042,414, 7–3–62, Cl. 277—11.
Tracy, Marion G. : *See*—
Tracy, Mearl V. 3,053,018.
Tracy, Mearl V., ½ to M. G. Tracy. Cut-off saw. 3,053,018, 9–11–62, Cl. 51—98.
Trademan, Leo, S. Katz, and E. R. Nielsen, to Velsicol Chemical Corp. Endrin insecticide concentrate compositions. 3,056,722, 10–2–62, Cl. 167—33.
Traf-O-Teria System, Inc. : *See*—
Greenbank, James W., and Blough. 3,036,758.
Trafton, Parollee J. Sun tan device. 3,050,067, 8–21–62, Cl. 128—372.
Trafton, Raymond E. Fluid valve means for containers. 3,022,516, 2–27–62, Cl. 4—56.
Trafton, Warren L., to United-Carr Fastener Corp. Adjustable door switch. 3,024,336, 3–6–62, Cl. 200—168.
Trafton, Warren L., to United-Carr Fastener Corp. Fastening device. 3,049,369, 8–14–62, Cl. 287—20.5.
Trager, Heinrich : *See*—
Kaupp, Josef, Konig, Von Rosenberg, Trager, and Thalhofer. 3,053,681.
Tragert, William E., to General Electric Co. Corrosion resistant aluminum base material. 3,034,200, 5–15–62, Cl. 29—182.5.
Tragert, William E., to General Electric Co. Device for continuous treatment of strands. 3,050,267, 8–21–62, Cl. 242—47.1.
Trägner, Erich : *See*—
Siebel, Gustav, Müller, Trägner, and Broochmann. 3,032,448.
Trägner, Erich, and R. Küster, to Aluminium-Industrie-Aktien-Gesellschaft. Molten metal distribution apparatus. 3,050,793, 8–28–62, Cl. 22—79.
Traher, Albert D. Adaptor for electrical outlets. 3,034,083, 5–8–62, Cl. 339—14.
Trailmobile Inc. : *See*—
Black, James J. 3,022,087.
Black, James J. 3,022,106.
Black, James J. 3,028,024.
Black, James J. 3,046,910.
Black, James J. 3,055,710.
Trainer Associates Inc. : *See*—
Newbold, Albert G. 3,043,383.
Trainor, Bernard E., to Continental Can Co., Inc. Radiant heater and method of shielding the same. 3,052,789, 9–4–62, Cl. 219—34.
Traise, Thornton P., and R. H. Leet, to Standard Oil Co. Method of lubricating with a radiation-resistant ureido compound thickened lubricating oil. 3,052,633, 9–4–62, Cl. 252—51.5.
Traisman, Edwin. Method for preparing frozen french fried potatoes. 3,050,404, 8–21–62, Cl. 99—193.
Trak Electronics Co., Inc. : *See*—
Dewitz, Gerhard H. 3,046,500.
Gabor, William D. 3,064,219.
Sontheimer, Carl G. 3,060,393.
Trambarulo, Ralph F., and E. H. Turner, to Bell Telephone Laboratories, Inc. Waveguide attenuator. 3,040,276, 6–19–62, Cl. 333—24.
Trambouze, Yves : *See*—
Wyraud, Charles, Prettre, Trambouze, Lenoir, Thomas, and Plurien. 3,022,187.
Trammell, Albert T., and V. H. Sparks; said Trammell assor. to said Sparks. Carburetor constuction. 3,026,095, 3–20–62, Cl. 261—41.
Trammell, Earl M., Jr. Window unit. 3,054,152, 9–18–62, Cl. 20—52.
Trammell, James R., to Rand Development Corp. Electronic voice box. 3,066,186, 11–27–62, Cl. 179—1.
Trammell, Joel H. : *See*—
Pirok, John N., and Trammell. 3,019,806.
Trampel, Kurt M., to International Business Machines Corp. Three-level inverter circuit. 3,060,330, 10–23–62, Cl. 307—88.5.
Tranas, Nicolai H., 50% to M. M. Brandt. Adjustable swivel. 3,024,049, 3–6–62, Cl. 287—87.
Tranbarger, Glen E., L. Murray, K. W. Young, and J. G. Mehagan, to General Motors Corp. Combined switch and valve for parking brake release systems. 3,051,801, 8–28–62, Cl. 200—61.86.
Trane Co., The : *See*—
Bottorf, James D., and Dzurko. 3,040,645.
Frank, Arne. 3,060,856.
Frank, Arne, and Roach. 3,044,688.
Hackbart, Reuben J., and Neubauer. 3,065,902.
Lee, Ralph E., and Eckelaert. 3,017,160.
Lejk, Joseph R., and Merta. 3,017,071.

Trane Co., The: *See*—Continued
McClure, Arthur W. 3,049,972.
Neubauer, Emil T. 3,021,995.
Neubauer, Emil T. 3,065,901.
Ringquist, Clarence L. 3,069,867.
Tadewald, Albert O. 3,016,921.
Ware, Chester D., and Van. 3,067,818.
Trani, John J. Fishing lures. 3,015,904, 1–9–62, Cl. 43—42.09.
Transeau, Sherman T. Self-cleaning cut-off gate construction. 3,047,006, 7–31–62, Cl. 137—243.
Transeau, Sherman T. Rotary feeder mechanism. 3,052,383, 9–4–62, Cl. 222—345.
Transfer Tools Ltd.: *See*—
Paterson, David R. 3,027,155.
Transistor Electronics Corp.: *See*—
Williams, Gerald I., and Wesslund. 3,041,499.
Transitron Electronic Corp.: *See*—
Hunter, Windsor H. 3,069,603.
Transmissions Mecaniques Seine-Doubs-Isere, Compagnie des: *See*—
Kuntzmann, Paul L. E. 3,068,712.
Trans-Oceanic: *See*—
Herbold, Wolfgang K. J. 3,049,185.
Stoltz, Werner. 3,037,351.
Transogram Co., Inc.: *See*—
Benkoe, Erwin. 3,022,779.
Benkoe, Erwin. 3,029,077.
Transograph Inc.: *See*—
Page, Harry L. 3,035,348.
Transolete Corp.: *See*—
Lester, Robert W. 3,040,169.
Transport, Felix, to Donrico Inc. Merchandising and display carton. 3,027,996, 4–3–62, Cl. 206—45.14.
Trans-Sil Corp.: *See*—
Weiss, Shirley J. Re. 25,161.
Trans-Sonics, Inc.: *See*—
Ferran, Robert J., and Brainard. 3,068,693.
Transue, Walter. Rainshields for parked automobiles. 3,066,-972, 12–4–62, Cl. 296—95.
Trantham, Joseph C.: *See*—
Marx, John W., Langenheim, Dixon, and Trantham. 3,019,837.
Parker, Harry W., Marx, and Trantham. 3,035,638.
Trantham, Joseph C., to Phillips Petroleum Co. Oil production by in situ combustion. 3,062,283, 11–6–62, Cl. 166—11.
Trapman, Franciscus J. J. Door closer. 3,066,348, 12–4–62, Cl. 16—57.
Trapp, Gunther: *See*—
Opderbeck, Fritz, Trapp, and Worner. 3,021,253.
Trapp, Jurgen: *See*—
Fischle, Liselotte, Kulcke, Schweitzer, and Trapp. 3,067,-413.
Schleicher, Arthur R., and Trantham. 3,055,422.
Trask, Allen, to International Heater Co. Defrosting system for heat pumps. 3,047,845, 7–3–62, Cl. 62—140.
Traupmann, Robert R.: *See*—
Zernov, Peter, and Traupmann. 3,052,183.
Trautman, Charles E.: *See*—
Rocchini, Albert G., and Trautman. 3,057,151.
Rocchini, Albert G., and Trautman. 3,057,152.
Rocchini, Albert G., and Trautman. 3,057,153.
Trautman, Charles E., to Gulf Research & Development Co. Foam inhibited lubricating oil composition. 3,033,788, 5–8–62, Cl. 252—49.6.
Trautman, Charles E., to Gulf Research & Development Co. Prevention of foaming of oils. 3,066,100, 11–27–62, Cl. 252—49.6.
Trautman, George H., Jr.: *See*—
Munschauer, Frederick E., Jr., Trautman, and Jones. 3,059,431.
Trautman, Leonard H., to Aluminum Co. of America. Extrusion and stretch-straightening apparatus and method. 3,018,885, 1–30–62, Cl. 207—1.
Travelift & Engineering, Inc.: *See*—
Baudhuin, George J., and Petersen. 3,028,925.
Traver, George W., to Traver Investments, Inc. Method of conditioning polyethylene surfaces for the adhesion of materials coated thereon and resulting product. 3,018,189, 1–23–62, Cl. 117—47.
Traver Investments, Inc.: *See*—
Traver, George W. 3,018,189.
Travis, Bobby J., to Socony Mobil Oil Co., Inc. Pipe tool. 3,065,527, 11–27–62, Cl. 29—213.
Travis, Ernest M., to J. W. Orton. Chain saw sharpener. 3,023,646, 3–6–62, Cl. 76—31.
Travis, Lawrence R.: *See*—
Petrick, William R., and Travis. 3,018,326.
Travis, Ralph L. Drawbar attached traction booster for towing vehicles. 3,037,791, 6–5–62, Cl. 280—405.
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Trax, Alan M., to Radio Corp. of America. Method of rebuilding electron tubes. 3,063,777, 11–13–62, Cl. 316—2.
Traxler, James T.: *See*—
Kaiser, Emil, and Traxler. 3,053,794.
Traxler, James T., to Armour-Pharmaceutical. Amino acid separation process. 3,051,640, 8–28–62, Cl. 204—180.
Traylor, Teddy G.: *See*—
Armen, Ardy, and Traylor. 3,043,812.
Levine, Charles A., and Traylor. 3,027,311.
Murdock, Stanley A., and Traylor. 3,026,291.
Murdock, Stanley A., Traylor, and Lefferdink. 3,026,-287.
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Murdock, Stanley A., Traylor, and Lefferdink. 3,036,033.
Stanton, George W., and Traylor. 3,022,264.
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Stanton, George W., and Traylor. 3,048,561.
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Stanton, George W., and Traylor. 3,050,498.
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Traylor, Teddy G., and A. Armen, to The Dow Chemical Co. Dyeability of acrylonitrile polymers. 3,043,811, 7–10–62, Cl. 260—79.3.
Traylor, Teddy G., and J. F. Voeks, to The Dow Chemical Co. Method for stabilizing aqueous solutions of water-soluble n-vinyl heterocyclic polymers and copolymers by adding water-soluble amines. 3,043,555, 8–7–62, Cl. 260—29.6.
Trayner, Willard B., 50% to Russell Lutes. Theft detection system for television receivers or the like. 3,045,226, 7–17–62, Cl. 340—280.
Trbojevich, Nikola J. High speed universal joint. 3,016,720, 1–16–62, Cl. 64—18.
Treadwell, M. H., Co., Inc.: *See*—
Sayre, Paul L., Dieckman, and Kleinman. 3,039,627.
Treadwell, Peter: *See*—
Battegay, Jean, and Treadwell. 3,064,060.
Treadwell, Robert C., Jr.: *See*—
Erickson, Richard D., and Treadwell. 3,055,053.
Tréand, Pierre. Prefabricated bathroom unit. 3,015,110, 1–2–62, Cl. 4—2.
Treanor, Edward D.: *See*—
Herman, Gerald P., and Treanor. 3,040,212.
Treanor, Edward D., to General Electric Co. Magnetic core. 3,025,483, 3–13–62, Cl. 336—213.
Treat, John W., Jr., to Olin Mathieson Chemical Corp. Projectile. 3,046,891, 7–31–62, Cl. 102—45.
Trebino, Raymond M.: *See*—
Hamilton, Eugene P., Trebino, and Dell. 3,047,731.
Tredopp, Karl: *See*—
Berning, Hans-Heinrich, and Tredopp. 3,058,109.
Tree, Charles, to Tree Tool & Die Works. Taper grinding tool. 3,022,608, 2–27–62, Cl. 51—43.
Tree Tool & Die Works: *See*—
Tree, Charles. 3,022,608.
Treer, Ross B., to The Warner & Swasey Co. Contour following apparatus. 3,021,740, 2–20–62 Cl. 82—14.
Treer, Ross B. Press. 3,064,559, 11–20–62, Cl. 100—292.
Trees, William E.: *See*—
Nelson, Earl W., and Trees. 3,067,005.
Treff, Ernest H. Rectilinear potentiometer. 3,026,493, 3–20–62, Cl. 338—183.
Treff, Ernest H. Potentiometer. 3,054,076, 9–11–62, Cl. 338—162.
Treffeisen, Donal R., to Sperry Rand Corp. Stall prevention system for navigable craft. 3,037,725, 6–5–62, Cl. 244—77.
Treffner, Arvo, B. Lilisunde, and K. G. Brunberg, to Telefonaktiebolaget L M Ericsson. Circuit arrangement for increasing the capacity of traffic in a telephone system. 3,043,915, 7–10–62, Cl. 179—18.
Trefil, Bluhoslav: *See*—
Dubsky, Borivoj, Straka, and Trefil. 3,020,461.
Trefzer, Robert: *See*—
Mueller, Paul, and Trefzer. 3,026,324.
Mueller, Paul, and Trefzer. 3,060,231.
Tregillus, Leonard W., and A. A. Rasch, to Eastman Kodak Co. Photographic silver halide diffusion transfer process. 3,017,270, 1–16–62, Cl. 96—29.
Tregoning, Robert H. Painter's wall stencil. 3,025,788, 3–20–62. Cl. 101—127.1.
Tregoning, Robert H. Manually operable dispenser. 3,059,-817, 10–23–62, Cl. 222—245.
Treiber, Gottlieb H., to M. G. Morgan. Automatic gates. 3,041,759, 7–3–62, Cl. 39—43.
Treiman, Morris, to Allied Plastics Co. Garment hanger. 3,069,054, 12–18–62, Cl. 223—92.
Treiss, George, to Viewlex, Inc. Single knob indexing and framing means. 3,058,390, 10–16–62, Cl. 88—28.
Trelease, Robert B. Apparatus for producing flexible insulating coverings of bonded fib. 3,067,806, 12–11–62, Cl. 156—591.
Tremblay, Alphonse. Saw filing guide. 3,060,768, 10–30–62, Cl. 76—36.
Tremer, Thomas E., ½ to J. H. O'Neill, ½ to R. S. Jendrek, and ½ to S. Lebowitz. Pedestal panel floor. 3,065,506, 11–27–62, Cl. 20—6.
Tremouilles, Francis J.-M. G.: *See*—
Eggers, Gerhard, Ernst, Gire, and Tremouilles. 3,036,-430.
Trencher Co. Excavating machine. 3,054,199, 9–18–62, Cl. 37—90.
Trenner, Leslie. Method of and means for handling and stacking folded sheets. 3,044,772, 7–17–62, Cl. 271—68.

Trenner, Nelson R. : *See*—
Jacob, Theodore A., and Trenner. 3,019,087.
Trent, Edward M., and D. E. Comins, to Hard Metal Tools Ltd. Hard sintered materials. 3,033,694, 5–8–62, Cl. 106—65.
Trent, Inc. : *See*—
Wickwire, Theodore H., III, and Connor. 3,043,942.
Trent, Vonnie R. Replacement cylinder for hydraulic jacks. 3,039,400, 6–19–61, Cl. 103—216.
Trentel, Paul A., to The Du-Fold Mfg. Co. Squeeze mop with compact control therefor. 3,023,438, 3–6–62, Cl. 15—119.
Trenton Times Corp. : *See*—
Strauss, Joseph. 3,028,836.
Strauss, Joseph. 3,043,693.
Treo Co., Inc. : *See*—
Metz, Samuel T. 3,064,655.
Trepanier, Maurice A. : *See*—
Goss, Arthur W., and Trepanier. 3,051,454.
Trepaud, Georges. Freezing apparatus. 3,036,443, 5–29–62, Cl. 62—352.
Treptow, Arnold W., to Bell Telephone Laboratories, Inc. Glass-metal seals. 3,029,559, 4–17–62, Cl. 49—81.
Treptow, Frederick W. : *See*—
Jurgens, William C., and Treptow. 3,046,356.
Treschev, Victor, G. Loew, D. Delfs, and F. Möller, to Bayer Aktiengesellschaft, Farbenfabriken. Preparation of polyurethane plastics. 3,036,021, 5–22–62, Cl. 260—2.5.
Treschow, Adam C. O., to "O-For," Olsson Zollikerberg & Co. Method of preserving food products formed of blood. 3,028,241, 4–3–62, Cl. 99—21.
Treseder, Richard S., to Shell Oil Co. Hydrogen peroxide stabilization. 3,037,622, 6–5–62, Cl. 206—84.
Treseder, Richard S., and H. de Roos, to Shell Oil Co. Method of inhibiting corrosion of iron and steel. 3,062,684, 11–6–62, Cl. 117—127.
Treshow, Michael, to United States of America, Atomic Energy Commission. Reflector control of a boiling water reactor. 3,035,993, 5–22–62, Cl. 204—193.2.
Treshow, Michael, to United States of America, Atomic Energy Commission. Fuel subassembly construction for radial flow in a nuclear reactor. 3,070,537, 12–25–62, Cl. 204—33.2.
Tress, John J. : *See*—
Edberg, Edwin A., and Tress. 3,015,479.
Tress, John J., and W. J. Heilman, to Koppers Co., Inc. Method of making a self extinguishable expandable polymer of styrene by bromination. 3,050,476, 8–21–62, Cl. 260—5.
Trethewey, William C., to Owens-Corning Fiberglas Corp. Monitoring system for machines for processing materials. 3,052,877, 9–4–62, Cl. 340—259.
Tretola, Ernest R. : *See*—
Gaukstern, Karl. 3,043,479.
Tretter, James R., to Chas. Pfizer & Co., Inc. Benzopyridocolines. 3,053,845, 9–11–62, Cl. 260—287.
Treure, Bastiaan J. : *See*—
Schmitz, Mattheus J., Schouten, and Treure. 3,066,191.
Treutelaar, Edward J. Therapeutic traction device. 3,068,859, 12–18–62, Cl. 128—75.
Trevaskis, Henry W., to Dunlop Tire and Rubber Corp. Device for controlling step-by-step relative movement of two objects. 3,044,317, 7–17–62, Cl. 74—526.
Trevaskis, Henry W., to Dunlop Rubber Co. Ltd. Levelling valve mechanisms. 3,044,494, 7–17–62, Cl. 137—627.5.
Trevaskis, Henry W., to Dunlop Rubber Co. Ltd. Device for transmitting or retaining vacuum or negative pressure conditions. 3,058,721, 10–16–62, Cl. 254—93.
Trevaskis, Henry W., and R. J. Barber, to Dunlop Rubber Co. Ltd. Ply turning device for use in the manufacture of pneumatic tyres. 3,025,209, 3–13–62, Cl. 156—400.
Trevisan, Virgil H. Rigging. 3,057,484, 10–9–62, Cl. 212—3.
Trevor, Bertram A., to Radio Corp. of America. Stabilized frequency modulated oscillator. 3,046,496, 7–24–62, Cl. 332—19.
Trevor, Godfrey H. Packing glands. 3,070,070, 12–25–62, Cl. 121—38.
Trevorrow, William D., to Atlas Chemical Industries, Inc. Delay electric explosion initiator. 3,024,728, 3–13–62, Cl. 102—28.
Trewella, Robert J. : *See*—
Plantinga, Oliver S., and Trewella. 3,043,301.
Scrivens, George W., and Trewella. 3,061,087.
Trewhitt, Alan : *See*—
Johnson, Cecil M., and Trewhitt. 3,064,675.
Trexler, Philip C., to University of Notre Dame du Lac. Process for introducing sterile material in apparatus having controlled atmosphere. 3,016,284, 1–9–62, Cl. 21—2.
Trexler, Philip C., to University of Notre Dame du Lac. Sealed door for a compartment having a controlled environment. 3,050,791, 8–28–62, Cl. 20—69.
Trexler, Philip C., to University of Notre Dame du Lac. Isolating device. 3,051,163, 8–28–62, Cl. 128—1.
Trexler, Philip C., to University of Notre Dame du Lac. Jacket isolator for use in sterile techniques. 3,051,164, 8–28–62, Cl. 128—1.
Trexler, Philip C., to University of Notre Dame du Lac. Connection between two sealed chambers and method of making the same. 3,059,831, 10–23–62, Cl. 229—56.
Treydte, Paul E., to Quick-N-Easy Products, Ltd. Adjustable strut for cargo carrier. 3,064,868, 11–20–62, Cl. 224—42.1.
Trezona, Charles : *See*—
Hompe, Robert W., Trezona, and Whitecar. 3,016,672.
Trg, Inc. : *See*—
Kay, Alan F. 3,039,100.
Triangle Package Machinery Co. : *See*—
Virta, Norman A. 3,040,490.
Triangle Tools Mfg. Co. : *See*—
Pankonin, William G. 3,056,584.
Tribble, Talmadge B. Method of preparing flavored stabilized feeds. 3,051,572, 8–28–62, Cl. 99—2.
Tribby, Charles L. : *See*—
Hart, Edward H., Tribby, and Morris. 3,061,509.
Tribe, Thomas F., ½ to British Federal Welder and Machine Co., Ltd. Spot welding machines. 3,068,346, 12–11–62, Cl. 219—80.
Tribe, Thomas F., assor. of a part of interest to British Federal Welder and Machine Co. Ltd. Shearing and welding machine. 3,068,347, 12–11–62, Cl. 219—82.
Tribken, Everett R., to Sperry Rand Corp. Automatic pilot. 3,058,697, 10–16–62, Cl. 244—77.
Tribune Co. : *See*—
Remer, Robert K. 3,015,632.
Remer, Robert K. 3,043,784.
Remer, Robert K. 3,060,853.
Trico Products Corp. : *See*—
Bitzer, Martin. 3,029,841.
Bitzer, Martin, and D'Alba. 3,017,651.
Deibel, Raymond A. 3,016,558.
Deibel, Raymond A. 3,035,296.
Deibel, Raymond A. 3,040,359.
Deibel, Raymond A., Horton, and Riester. 3,064,752.
Deibel, Raymond A., and Scinta. 3,044,095.
Grazyk, Bronislaus S., and Ott. 3,049,743.
Horton, Erwin C. 3,016,557.
Horton, Erwin C. 3,041,652.
Horton, Erwin C. 3,070,183.
Lenz, Emory W., and Roberts. 3,016,968.
Oishei, John R. 3,018,501.
Oishei, John R. 3,040,358.
Oishei, John R. 3,042,955.
Oishei, John R. 3,045,272.
Oishei, John R. 3,068,506.
Oishei, John R., and Bitzer. 3,023,445.
Oishei, John R., Bitzer, and Scinta. 3,032,019.
Oishei, John R., and Horton. 3,066,543.
Oishei, John R., and Riester. 3,025,551.
Oishei, John R., and Robert. 3,044,823.
Oishei, John R., and Scinta. 3,056,160.
Oishei, Reed J., and Riester. 3,039,555.
Riester, William C. 3,042,135.
Riester, William C. 3,043,392.
Riester, William C. 3,070,184.
Schaal, Earl V. 3,017,650.
Scinta, Anthony C. 3,029,531.
Scinta, Anthony C. 3,035,298.
Scinta, Anthony C. 3,047,900.
Smithers, Phillip G. K. 3,056,991.
Weymouth, Frederick R., Jr. 3,021,912.
Tri-County Leasing Corp. : *See*—
Fleming, Richard E. 3,054,519.
Tridgell, Cyril W., to Power Jacks Ltd. Reciprocating hydraulic pumps. 3,064,581, 11–20–62, Cl. 103—37.
Trier, James J., to R. Hoe & Co., Inc. Journal construction for resilient surfaced rollers in ink or water motions. 3,069,821, 12–25–62, Cl. 51—274.
Trier, Louis J. : *See*—
Satchell, Fred E., and Trier. 3,018,106.
Trieschmann, Hans G., L. Reuter, and W. Arend, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of polyester amides. 3,036,974, 5–29–62, Cl. 260—2.
Triesz, Laura W. : *See*—
Bair, Richard H. 3,022,387.
Triest Mfg. Works, Inc. : *See*—
Webber, Clarence E., and Triest. 3,045,433.
Triest, Willard G. : *See*—
Webber, Clarence E., and Triest. 3,045,433.
Triffleman, Bernard H., to Curtiss-Wright Corp. Method of manufacture of homogeneous compositions. 3,070,436, 12–25–62, Cl. 75—.5.
Triflux, Societe : *See*—
Daniel, Georges H. M. 3,051,871.
Trifunovic, Alexander L. : *See*—
Russo, Carl J., Trifunovic, and Sinski. 3,027,108.
Russo, Carl J., Trifunovic, and Sinski. 3,058,690.
Trikotfabriken J. Schiesser A. G. Radolfzell (Bodensee) : *See*—
Dietzsch, Hans-Joachim and O. 3,015,873.
Trim Dies, Inc. : *See*—
Lowell, John O., and Carlson. 3,063,371.
Trimble, Gebern B., to The National Cash Register Co. Magnetic drum storage systems. 3,068,455, 12–11–62, Cl. 340—174.1.
Trimble, John O. : *See*—
Leavesley, George W., and Trimble. 3,020,785.
Trimble, John O., to The Budd Co. Mold and method of making metal-faced foundry patterns thereon. 3,024,506, 3–13–62, Cl. 22—113.
Trimble, John O., to The Budd Co. Method of making steel rule blanking die. 3,052,139, 9–4–62, Cl. 76—107.
Trimble, Lyne S., M. J. Markakis, J. L. Nishball, and M. C. Leinberger, to The National Cash Register Co. Electromagnetic printer. 3,017,234, 1–16–62, Cl. 346—74.

Trimble, Philip K.: *See*—
Lash, Joseph F., and Trimble. 3,017,773.
Lash, Joseph F., and Trimble. 3,056,300.

Trimble, Philip K., to General Motors Corp. Unbalance indicator. 3,048,041, 8–7–62, Cl. 73—462.

Trimborn, Hans. Transport roller for industrial furnaces. 3,050,296, 8–21–62, Cl. 263—6.

Trimlin Mfg. Co.: *See*—
Berger, Irving, and Hall. 3,027,113.

Trimnell, Donald, C. P. Patel, and J. F. Johnston, to Union Starch & Refining Co., Inc. Reaction of starch with N,N'-methylene-bis-acrylamide. 3,035,045, 5–15–62, Cl. 260—233.3.

Trina, Inc.: *See*—
Zompa, Thomas A. 3,020,188.

Trinchero, Eneas J. Collapsible awning canopy. 3,047,059, 7–31–62, Cl. 160—132.

Trindl, John C. Portable object supporting stand. 3,034,754, 5–15–62, Cl. 248—158.

Tringal, Alfred M.: *See*—
Bernardi, Dominic J., Tringal, Roth, and Engle. 3,017,374.

Tringali, Alfred M., to Interchemical Corp. Phenolic resins. 3,056,762, 10–2–62, Cl. 260—52.

Trinkle, Harley W.: *See*—
Davis, Wilbur A. 3,048,898.

Trinkle, Margaret B.: *See*—
Davis, Wilbur A. 3,048,898.

Trinkler, Alfred, to Societe Nationale d'Etude & de Construction de Moteurs d'Aviation. Regulation and adjustment of the rates of flow of liquid. 3,039,988, 6–19–62, Cl. 60—39.28.

Trio Mfg. Co.: *See*—
Koenig, Herbert G. 3,039,074.

Triolo, Joseph F.: *See*—
Lewis, Henry F., and Triolo. 3,049,300.

Trionics Corp.: *See*—
Pappis, James, and Stapleton. 3,056,938.

Triplett, Frank W., to A. D. Goodwin & Son, Inc. Boom. 3,063,523, 11–13–62, Cl. 189—37.

Triplett, J. Karrol: *See*—
Davidson, Donald E., and Triplett. 3,035,858.

Tripodi, Louis J., to The Lodestar Corp. Load-dumping vehicle and method. 3,027,197, 3–27–62, Cl. 298—20.

Tripp, Albert L. *See*—
Baer, Robert A., Slattery, and Tripp. 3,030,494.

Tripp, Burrell H., to P. S. Pedersen, P. S. Pedersen, Jr., and E. Martin, co-partners d.b.a. Central Farm Equipment Co. Prefabricated building structure. 3,059,734, 10–23–62, Cl. 189—34.

Tripp, Elbert S., and J. E. Coursey, to United Merchants and Manufacturers, Inc. Spinning packages. 3,041,007, 6–26–62, Cl. 242—150.

Tripp, Joseph E., and W. H. Witzel, to Proval Corp. Proportioning valve. 3,044,456, 7–17–62, Cl. 123—41.42.

Tripp, Robert W., to Inductosyn Corp. Analog control systems. 3,056,909, 10–2–62, Cl. 318—30.

Tripp, Robert W., to Inductosyn Corp. Positional and velocity null indicator for machine control systems. 3,056,953, 10–2–62, Cl. 340—282.

Tripp, Robert W., to Inductosyn Corp. Variable speed drive interpolation system for automatic machine control. 3,058,657, 10–16–62, Cl. 235—154.

Tripp, Robert W., to Inductosyn Corp. Interpolation computing system for automatic tool control. 3,066,868, 12–4–62, Cl. 235—197.

Tripp, Robert W., and J. L. Winget, to Inductosyn Corp. Analog-digital converter. 3,045,230, 7–17–62, Cl. 340—347.

Tripp, Verne W.: *See*—
Segal, Leon, Loeb, Tripp, and Clayton. 3,031,335.

Tripplehorn, James C. Migratory paraffin scraper. 3,058,524, 10–16–62, Cl. 166—176.

Triquet, Russell Q. Apparatus for controlling tension in moving webs of material. 3,036,787, 5–29–62, Cl. 242—75.4.

Trishman, Harry A.: *See*—
Obarski, Richard W., Trishman, and Seanor. 3,060,734.

Triska, Alfred A., to Great Lakes Carbon Corp. Manufacture of coke. 3,058,821, 10–16–62, Cl. 75—42.

Trisler, Nelson W. Offset image forming head. 3,039,386, 6–19–62, Cl. 101—141.

Tristram, Edward W.: *See*—
Chemerda, John M., Tristram, and Hinkley. 3,053,866.

Tritsch, Ludwig, to The Kendall Co. Pressure-sensitive adhesives and tapes containing same, said adhesive comprising a rubber, a tackifying resin and an epoxy compound. 3,027,337, 3–27–62, Cl. 260—5.

Tritt, Robert D. Honeycomb display device. 3,046,684, 7–31–62, Cl. 41—11.

Tritt, Russell L.: *See*—
Ullman, Robert, Fortna, Middleton, Schwalm, and Tritt. 3,023,415.
Ullman, Robert, Fortna, Middleton, Schwalm, and Tritt. 3,066,826.

Tritt, William R., to Glasspar Co. Deck and hull joint for boats. 3,065,724, 11–27–62, Cl. 114—88.

Triumph Hosiery Mills, Inc.: *See*—
Goodman, Norman H. 3,043,123.

Triumph Werke Nurnberg A.G.: *See*—
Neidhardt, Rudolf, and Wlodarczak. 3,030,009.

Tri-Wall Containers, Inc.: *See*—
Elliott, Charles I. 3,036,752.

Trix Electrical Co., Ltd., The: *See*—
Berry, Michael L. 3,052,758.

Trobeck, Karl G., A. Tirado, and W. Lenz, to Aktiebolaget B. T. Metoder, and Fabricas de Papel Loreto y Pena Pobre, S.A. Method and apparatus for removing obnoxious odors from gases. 3,028,295, 4–3–62, Cl. 162—51.

Troccoli, Arthur M., to Elastic Stop Nut Corp. of America. Adjustable light source mount for marine lanterns. 3,061,299, 10–30–62, Cl. 248—274.

Troche, Herman J.: *See*—
Eckels, George H., and Troche. 3,022,854.

Troche, Herman J., to Holan Corp. Earth boring apparatus. 3,022,839, 2–27–62, Cl. 175—201.

Troeger, Henry, to The Bendix Corp. Centrifugal governor having axially-aligned weights. 3,019,659, 2–6–62, Cl. 73—551.

Troeger, Henry, and E. J. Clinton, Jr., to The Bendix Corp. Turbine brake. 3,048,364, 8–7–62, Cl. 253—59.

Troelstra, Sjerp A., to North American Philips Co., Inc. Method of producing a stable coagel of an alkaline earth fluoride. 3,051,659, 8–28–62, Cl. 252—317.

Troemner, James O., and D. H. Pearson, to Deere & Co. Plural clutch control. 3,059,742, 10–23–62, Cl. 192—48.

Trofimow, Alexei: *See*—
Isaacs, Philip K., and Trofimow. 3,033,812.

Trofimow, Alexei, P. K. Isaacs, and D. M. Wacome, to W. R. Grace & Co. Coagulating vinylidene chloride copolymers. 3,058,962, 10–16–62, Cl. 260—877.

Troha, Louis J, and T. A. Drapery hanger. 3,026,933, 3–27–62, Cl. 160—346.

Troha, Teresa A.: *See*—
Troha, Louis J. and T. A. 3,026,933.

Trojan Corp.: *See*—
Krawacki, Michael J. 3,033,122.
Krawacki, Michael J. 3,065,709.
Krawacki, Michael J. 3,065,710.

Trojan Powder Co.: *See*—
Griffith, George L., and Wells. 3,059,575.

Trojanek, Leo D. Snow plow attachment for rotary power mowers. 3,043,036, 7–10–62, Cl. 37—195.

Troll, William A., and C. Bonsignore, to Emsig Mfg. Co. Button orienter. 3,044,660, 7–17–62, Cl. 221—10.

Trolson, Walter J.: *See*—
Bachand, Stephen F., and Trolson. 3,050,305.

Trombly, Harvey H.: *See*—
Harper, Robert H., Trombly, and Bonheimer. 3,033,687.

Tronnier, Albrecht W.: *See*—
Lescher, Edmund J., and Tronnier. 3,064,532.

Tronnier, Albrecht W., to Farrand Optical Co., Inc. Four-component wide-angle objective lens of Gaussian type. 3,049,975, 8–21–62, Cl. 88—57.

Tronnier, Ernst: *See*—
Eggert, Joachim, and Tronnier. 3,039,359.

Tronnier, Hagen: *See*—
Lescher, Johannes, and Tronnier. 3,041,245.

Tronslin, Cyril B., J. F. Sweeney, Jr., D. W. Brede, and J. W. Dorsett, Jr., to Ampex Corp. Degaussing apparatus. 3,023,280, 2–27–62, Cl. 179—100.2.

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Tropeano, Joseph C. and P. L. Sprinkler head and valve control mechanism with compressed air means. 3,063,645, 11–13–62, Cl. 239—206.

Tropeano, Philip L.: *See*—
Tropeano, Joseph C. and P. L. 3,063,645.

Tropel, Inc.: *See*—
Evans, John C. 3,054,645.

Tropiano, Ralph. Room register. 3,046,719, 7–31–62, Cl. 55—417.

Troscianiec, Henry J.: *See*—
Lyle, Robert E., Jr., and Troscianiec. 3,029,244.

Troscinski, Edwin S.: *See*—
Dravnieks, Andrew, Troscinski, and Birkness. 3,056,664.
Tisinai, George F., and Troscinski. 3,028,268.

Troske, Frederick W., to Scovill Mfg. Co. Machine for setting fasteners in spaced relation. 3,028,601, 4–10–62, Cl. 1—320.

Trost, Ernst-Gunther, to International Standard Electric Corp. Video-frequency contrast-control arrangement for television receivers. 3,051,780, 8–28–62, Cl. 178—7.5.

Trost, Richard E., to Victor Comptometer Corp. Tuning mechanism for dictating machine. 3,039,777, 6–19–62, Cl. 274—17.

Trost, Wayne C., to Barber-Colman Co. Thread positioning mechanism. 3,017,128, 1–16–62, Cl. 242—35.6.

Trost, Wayne C., to Barber-Colman Co. Winder. 3,017,129, 1–16–62, Cl. 242—35.6.

Trost, Wayne C. Mechanism for tying weavers' knots. 3,017,211, 1–16–62, Cl. 289—3.

Trost, Wayne C., to Barber-Colman Co. Machine for winding conical yarn packages. 3,053,464, 9–11–62, Cl. 242—43.2.

Trost, Wayne C., to Barber-Colman Co. Core supporting mechanism for winding machines. 3,054,567, 9–18–62, Cl. 242—18.

Trott, Donald E. Bicycle driven by oscillating levers. 3,039,790, 6–19–62, Cl. 280—251.

Trott, William A. Luminaires. 3,035,165, 5–15–62, Cl. 240—78.

Trotta, Fred: *See*—
Rallis, Theodore, and Trotta. 3,022,789.

Trotta, Leonard J., ½ to Motor City Spring Co, and ½ to The United States Bedding Co. Hopper and feeder for spiral items. 3,045,865, 7–24–62, Cl. 221—13.

Trotter, John C., to Bell Aerospace Corp. Hydrostatic bearing system. 3,052,505, 9–4–62, Cl. 308—160.

Trotter, John C., to Bell Aerospace Corp. Hydrostatic bearing. 3,065,036, 11–20–62, Cl. 308—35.

Trotter, Margaret E. B.: *See*—
Bates, John S. 3,015,510.

Trotter, Walter, to Camloc Fastener Corp. Tightenable rotary fastener. 3,065,012, 11–20–62, Cl. 292—212.

Trottier, Jean E.: *See*—
Neufville, Jean M. M., and Trottier. 3,047,724.

Trought Associates, Inc.: *See*—
Trought, Norman J. 3,022,675.

Trought, Norman J., to Trought Associates, Inc. Variable angle gear drive mechanism. 3,022,675, 2–27–62, Cl. 74—385.

Trout, Philip A., to United States of America, Navy. Transistor-core flip-flop memory circuit. 3,030,613, 4–17–62, Cl. 340—174.

Troutner, Arthur L. Composite truss deck. 3,019,491, 2–6–62, Cl. 20—1.

Trow, Richard F., to Texaco Inc. Alkylation process. 3,038,948, 6–12–62, Cl. 260—683.45.

Trowbridge, Glenn: *See*—
Nye, Maurice A., Bittman, and Trowbridge. 3,064,919.

Trower, Mervin H.: *See*—
Forster, Gerald L., and Trower. 3,024,623.

Troxel, Emerald V. Utility building. 3,063,104, 11–13–62, Cl. 20—2.

Troxel Mfg. Co.: *See*—
Kalter, Harold E. 3,066,978.

Troy, Kenneth. Brake actuator mechanism. 3,048,243, 8–7–62, Cl. 188—78.

Troya, Henry. Pocket toilet and advertising device. 3,070,101, 12–25–62, Cl. 132—76.4.

Troyer, Marc D., to Berger Industries Inc. Metal logging spar. 3,050,285, 8–21–62, Cl. 254—139.1.

Troyer, Jay C. Animated fish lure. 3,035,367, 5–22–62, Cl. 43—42.16.

Troyer, William J., to Schwitzer Corp. Mechanism for controlling gaseous flow in turbo-machinery. 3,038,698, 6–12–62, Cl. 253—78.

Troyer, William J., to Schwitzer Corp. Elliptical vibration damper. 3,054,305, 9–18–62, Cl. 74—574.

Troyko, Elizabeth E.: *See*—
Kovasznay, Istvan. 3,058,829.

Truax, Robert C., to Texaco Experiment Inc. Steam powered rocket and launcher therefor. 3,029,704, 4–17–62, Cl. 89—1.7.

Trüb, Täuber & Co., A.G.: *See*—
Günthard, Hans H., and Primas. 3,034,039.

Trubek Laboratories, Inc., The: *See*—
Davidson, David and Lusskin. 3,045,047.

Trubenised Co. (Registered Trust): *See*—
Lockwood, Arthur W. 3,037,472.

Trucco, Raul E.: *See*—
Wolf, Stewart G., Jr., Caputto, and Trucco. 3,026,251.

Truchan, Anthony: *See*—
Lawlor, Francis E., and Truchan. 3,051,749.

Truck and Trailer Products, Inc.: *See*—
Robb, Frank B. 3,059,945.

Trucker, Donald E., to Wyandotte Chemicals Corp. Method of manufacturing cis 2,5-dimethylpiperazine. 3,067,201, 12–4–62, Cl. 260—268.

Truckers Specialty Printing Co., Inc.: *See*—
Molomot, Oscar H. 3,020,067.

Truck-Lite Co., Inc.: *See*—
Baldwin, George D. 3,049,613.
Baldwin, George D. 3,067,974.

Trudeau, Francis E., to Poor & Co. Crawler tread. 3,053,579, 9–11–62, Cl. 305—57.

Trudeau, Urban P.: *See*—
Colchagoff, Robert D., and Trudeau. 3,069,860.

True, Arthur J., to Union Tank Car Co. Billet feeding device. 3,059,788, 10–23–62, Cl. 214—18.

True, Martin E.: *See*—
Corley, Charles B., Jr., Kenneday, and Tausch. 3,032,109.
Pistole, Harry, True, Pitts, Morse, McFarland, and Boer. 3,040,811.

True, Martin E., to Jersey Production Research Co. Perforator for well casing. 3,064,571, 11–20–62, Cl. 102—21.8.

True, Max M. Method of mixing and delivering aggregate mixtures. 3,026,094, 3–20–62, Cl. 259—147.

True Temper Corp.: *See*—
Finch, Charles A. 3,021,076.
Portz, William E. 3,034,798.
Portz, William E., and Yearley. 3,018,140.

True, Thomas T.: *See*—
Good, William E., and True. 3,037,170.

Truesdale, Gordon K.: *See*—
Currey, Charles, Brown, Holbrook, Truesdale, and Freeman. 3,070,798.

Truesdell, William A. M.: *See*—
Alexander, John W., and Truesdell. 3,036,284.

True-Trace Corp.: *See*—
Weaver, Paul J. 3,035,807.

Truett, William L.: *See*—
Anderson, Arthur W., Bruce, Merckling, and Truett. 3,050,471.

Truett, William L., and N. G. Merckling, deceased (by N. K. Merckling, administratrix), to E. I. du Pont de Nemours and Co. Polymerization catalysts. 3,063,979, 11–13–62, Cl. 260—94.9.

Tru-Fit Screw Products Corp.: *See*—
Becka, Paul N. 3,017,476.

Truitt, Ernest C. Traction device. 3,036,649, 5–29–62, Cl. 180—7.

Truitt, James K.: *See*—
Agnew, Robert J., Truitt, and Robertson. 3,030,308.

Truitt, James K., to Texaco Inc. Antifreeze composition. 3,015,629, 1–2–62, Cl. 252—75.

Truitt, Joseph A., and C. L. Hausel, to American Viscose Corp. Method for making a yarn package. 3,064,911, 11–20–62, Cl. 242—18.

Truman, Chester A. Coupler for sewer rods and the like. 3,043,121, 7–10–62, Cl. 64—6.

Truman, John C., and R. T. Newton, to General Electric Co. Means for eliminating screech in jet propulsion systems. 3,041,836, 7–3–62, Cl. 60—39.69.

Truman, Theodore J., and W. F. Harder, to Republic Steel Corp. Door frame anchor. 3,019,868, 2–6–62, Cl. 189—46.

Trumble, Leslie A., deceased; The La Crosse Trust Co., trustee. Method and apparatus for editing magnetic recordings. 3,031,534, 4–24–62 Cl. 179—100.2.

Trumbull, Alfred L. Boat trailer. 3,056,517, 10–2–62, Cl. 214—84.

Trumbull, Donald E., to Pyles Industries, Inc. Replaceable dispenser for sealant gun. 3,066,836, 12–4–62, Cl. 222—327.

Trumbull, Donald E., A. J. Devine, and G. S. Pyles; said Pyles assor. to Pyles Industries, Inc. Demand mixing and dispensing machine. 3,042,264, 7–3–62, Cl. 222—142.

Trumbull, Donald E., A. J. Devine, and G. S. Pyles; said Pyles assor. to Pyles Industries, Inc. Material handling system, metering apparatus and method of metering and mixing materials. 3,043,477, 7–10–62, Cl. 222—1.

Trumbull, Donald E., and A. J. Devine, to Pyles Industries, Inc. Demand mixing and dispensing gun for multi-component materials. 3,053,457, 9–11–62, Cl. 239—142.

Trumbull, Harold E.: *See*—
Hull, Henry E., and Trumbull. 3,032,944.

Trumpelmann, Ernst, to Olympia Werke A.G. Input arrangement for ten-key calculators. 3,053,443, 9–11–62, Cl. 235—60.

Trümper, Konrad: *See*—
Brill, Friedrich E., and Trümper. 3,041,985.

Trumpf & Co.: *See*—
Gabriel, Gerhard. 3,041,905.
Hähnel, Werner. 3,033,055.
Leibinger, Berthold. 3,058,380.

Trumpler, Gottfried, to Lonza Chemical and Electrical Works Ltd. Method for the electrolytic decomposition of titanium tetrachloride. 3,067,112, 12–4–62, Cl. 204—61.

Trumpy, Jay W., to Douglas Aircraft Co., Inc. Discriminator circuit. 3,036,269, 5–22–62, Cl. 324—79.

Trunk, Edmund G., to Servo Corp. of America. Altitude computer. 3,031,657, 4–24–62, Cl. 343—5.

Trunk, Willi: *See*—
Steinlein, Gustav, and Trunk. 3,022,776.

Trunnell, Harold K. Hinged wire guide. 3,038,702, 6–12–62, Cl. 254—134.3.

Trunnell, Harold K. Spiral slot wire guide. 3,052,450, 9–4–62, Cl. 254—134.3.

Trupiano, Roberto: *See*—
Zanon, Domenico, and Trupiano. 3,039,850.

Trupiano, Roberto, and D. Zanon, to Industrie Chimiche Porto Marghera, (I.C.P.M.), S.p.A. Process for the preparation of artificial crystalite. 3,040,405, 8–14–62, Cl. 23—88.

Truran, Charles. Flower bed and sod edger. 3,020,637, 2–13–62, Cl. 30—315.

Trurin, Inc.: *See*—
Griffin, George O., and Hanshaw. 3,048,160.

Tru-Scale, Inc.: *See*—
Diehl, John M. 3,041,230.
Diehl, John M., and Yaeger. 3,046,180.
Pelley, Perry H. 3,037,897.

Tru-Scale Models, Inc.: *See*—
Kniff, August A. 3,017,503.

Truscheit, Ernst: *See*—
Eiter, Karl, and Truscheit. 3,017,432.
Eiter, Karl, and Truscheit. 3,021,355.
Eiter, Karl, and Truscheit. 3,028,422.
Eiter, Karl, and Truscheit. 3,038,933.
Eiter, Karl, and Truscheit. 3,060,229.
Eiter, Karl, Oediger, and Truscheit. 3,069,460.

Truscon Steel Co. of Canada Ltd. (subsidiary of Dominion Steel and Coal Corp., Ltd): *See*—
Lambert, Douglas W. 3,060,527.

Trush, Steven F. Test connector. 3,024,438, 3–6–62, Cl. 339—28.

Truss Pre-Fab, Inc.: *See*—
West, Paul D. 3,052,149.

Truth Tool Co.: *See*—
Stavenau, Harold L. 3,032,330.
Stavenau, Harold L. 3,064,965.
Stavenau, Harold L. 3,064,966.

Trybinski, Victor J., Jr. Barricade unit. 3,059,907, 10–23–62, Cl. 256—64.

Tryhorn, Donald W., and J. J. S. Smith, to Sir Whitworth, W. G. Armstrong & Co. (Engineers) Ltd. Exhaust system for gas producing units. 3,064,417, 11–20–62, Cl. 60—13.

Tryon, Ward R., to The Dow Chemical Co. Method of rendering foamed polystyrene surfaces flame resistant. 3,061,468, 10–30–62. Cl. 117—138.

Trythall, William J. C. Combined air and hydraulic piston and cylinder devices. 3,038,313. 6–12–62. Cl. 60—54.5.

Trzesniewski, Joseph J. Game paddle. 3,062,550, 11–6–62, Cl. 273—96.

Tsang, Sien M.: *See*—
Lewis, Charles E., Paul, Tsang, and Leavitt. 3,051,697.
Long, Robert S., and Tsang. 3,036,121.

Tschoppt, Sheridan P. Packing glands. 3,050,312, 8–12–62, Cl. 277—208.

Tschappler, Sam E.: *See*—
Adams, Albert, and Tschappler. 3,063,562.

Tschatsch Gebr.: *See*—
Tschatsch, Wilhelm. 3.053,382.

Tschatsch, Wilhelm, ½ to Tschatsch Gebr. and ½ to Randolph-Rand Corp. Cigarette case. 3,053,382, 9–11–62, Cl. 206—41.2.

Tschentschel, Gerold, to Firma Heinrich Hermann. Corner mounting and method of making the same. 3,023,678, 3–6–62, Cl. 93—1.

Tschiff, Ludwig, F. Gärtner, and F. Janovsky, to Maschinenfabrik Heid Aktiengesellschaft. Method and apparatus for controlling any desired number of individual movements of a mechanical device. 3,042,170, 7–3–62, Cl. 192—142.

Tschudi, Traugott: *See*—
Cawkwell, William J., and Tschudi. 3 048,697.

Tschudy, Donald B., to Goodyear Aircraft Corp. Jet engine exhaust thrust reverser. 3,024,603, 3–13–62, Cl. 60—35.54.

Tschumi, Ernst. Automatic high-speed fire-arm. 3,060,809, 10–30–62 Cl. 89—33.

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Tschumi, Otto, H. Kappeler, and R. Streit, to Autophon Aktiengesellschaft. Telephone sub-station including microphone amplifier. 3,046,353, 7–24–62, Cl. 179—81.

Tsiang, Sih H.: *See*—
Mishelevich, Benjamin, and Tsiang. 3,046,394.

Tsien, Vee C., to Pneumo Dynamics Corp. Electrohydraulic servo valve. 3,026,892. 3–27–62, Cl. 137—82.

Tsou, Kwan C., to The Borden Co. Isothiocyanates of phthaleins. 3,028,397. 4–3–62, Cl. 260—335.

Tsou, Kwan C. Thiosulfate process of making organic polysulfides. 3,054,781. 9–18–62. Cl. 260—79.1.

Tsou, Kwan C., and R. V. Mihailovitch, to The Borden Co. Method for preparation of crystalline polystyrene. 3,069,-407. 12–18–62. Cl. 260—93.5.

Tsou, Kwan C., S. R. Sandler, and A. T. Astrup, to The Borden Co. Making alkenyl esters of aromatic carboxylic acids using amide promoters. 3,069,459, 12–18–62, Cl. 260—475.

Tsu, Ignatius: *See*—
Sallo, Jerome S., Fisher, Tsu, and Modi. 3,032,486.

Tsu, Ignatius, to International Business Machines Corp. Preparation of superconductive tin by electrodeposition. 3,031,400, 4–24–62 Cl. 204—54.

Tsu, Ignatius, and J. S. Sallo, to The National Cash Register Co. Electrolytic bath for use in electro-deposition of ferromagnetic compositions. 3,031,386. 4–24–62 Cl 204—43.

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Tsubokawa, Iyetsune. Mechanism for the mounting of a compensator mirror in a self-leveling instrument. 3,058,-396, 10–16–62. Cl. 88—97.

Tsubokawa, Iyetsune. Automatic leveling apparatus. 3,059,-520, 10–23–62, Cl. 88—1.

Tsuchiya, Ichitaro. Handset type of telephone unit. 3,052,-761, 9–4–62. Cl. 179—81.

Tsuchiya, Shoji, to Nippon Telegraph & Telephone Public Corp. Directional coupler. 3,035,225, 5–15–62, Cl. 324—58.

Tsuchiya, William S., to Deere & Co. Unit carriers. 3,037,-562, 6–5–62. Cl. 172—450.

Tsuda, Kyosuke, E. Oki, S. Nozoe, and Y. Okada, to Sankyo Co., Ltd. Process for the aromatization of ring A of steroid compounds. 3,040,036, 6–19–62. Cl. 260—239.55.

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Tsuda, Takashi: *See*—
Sirakawa, Kenzo, Tsujikawa, and Tsuda. 3,041,339.

Tsudakoma Industrial Co., Ltd.: *See*—
Ohashi, Hidekichiro, Kawasaki, Koshiba, and Tsuji. 3,046,633.

Tsuji, Kelichi: *See*—
Yabuta, Teijiro, Ikeda, Shirovanagi, Ikeda, Fujimaki, Katayama, Tsuji, and Sato. 3,049,535.

Tsuji, Ryutaro: *See*—
Ohashi, Hidekichiro, Kawasaki, Koshiba, and Tsuji. 3,046,633

Tsujii, Keiji: *See*—
Fukui, Hatsuaki, and Tsujii. 3,061,743.

Tsujikawa, Teruaki: *See*—
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Tsujiuchi, Jumpei, to Agency of Industrial Science and Technology, Ministry of International Trade and Industry. Optical system having aberration correcting plate member with ring shaped phase retarding layers. 3,045,530, 7–24–62. Cl. 88—14.

Tsukagoshi, Tomohachi: *See*—
Tokita, Kenji, and Tsukagoshi. 3,049,862.

Tsukahara, Tetsuo, to Sony Corp. Method of manufacturing a grown type semiconductor device. 3,070,465, 12–25–62, Cl. 148—1.5.

Tsunoda, Toshinao: *See*—
Ogawa, Tetsuo, Tsunoda, Okumura, and Ozaki. 3,042,-585.

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Tsutsumi, Kikuichi. Method and apparatus for producing wool-like yarn from synthetic fibers. 3,046,632, 7–31–62, Cl. 28—1

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Higuchi, Kozo, Tsuyuguchi, Osa, and Ando. 3,030,412.

Tu, Shu-Tung: *See*—
Whitmore, Robert A., and Tu. 3,019,794.

Tubbs, Howard A. Well system. 3,064,736, 11–20–62, Cl. 166—67.

Tubbs, William H. Multiple purpose solar reflector. 3,049,-055, 8–14–62, Cl. 88—105.

Tubiello, Giuseppe: *See*—
Marullo, Gerlando, Perri, and Tubiello. 3,059,773.

Tubin, Eddie S.: *See*—
Stolle, Raymond A. 3,062.923.
Stolle, Raymond A., and Tubin. 3,057,969.

Tuboscope Co.: *See*—
Price, Berry G., and Placke. 3,066,254.
Wood, Fenton M. 3 023,312.

Tubular Structures Corp of America: *See*—
Samuely, Max. 3,036,435.
Selby, Max M. 3,027,032.

Tucci, Arthur J. Retractible parachute launcher. 3,052,434, 9–4–62. Cl. 244—153.

Tuchel, Ulrich. Contact assembly. 3,032,739, 5–1–62, Cl. 339—176.

Tuck, Harvey R.: *See*—
Pichler, Joseph R., and Tuck. 3,049,894.

Tuck, Harvey R., and J. L. Miller, to General Motors Corp. Clothes dryer having absorbent bed. 3,034,221, 5–15–62, Cl. 34—45.

Tuck, James L.: *See*—
Dike, Robert S., Lier, Schofield, and Tuck. 3,030,547.
Kruskal, Martin, Tuck, Colgate, and Rosenbluth. 3,016,342.

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Breting, Ulysses A., and Tuck. 3,033,333.

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Tuck, Robert M., and J. J. Mooney, Jr., to General Motors Corp. Torque converter transmission. 3,021,676, 2–20–62, Cl. 60—54.

Tuck, Robert M., and H. Fackenthal, to General Motors Corp. Transmission. 3,027,720, 4–3–62, Cl. 60—54.

Tuck-Aire Furnace Co.: *See*—
Barber, Chester P. and Marble. 3,062.933.

Tucker, Arthur R., and M. Weiss, to Dalto Electronics Corp. Electronic system for generating a perspective image. 3,060,-596 10–30–62 Cl. 35—10 2.

Tucker, Benjamin W., Jr.: *See*—
Karmel, Philip, and Tucker. 3,050,153.

Tucker, Benjamin W., Jr., to Otis Elevator Co. Entranceway apparatus and closure means for elevators. 3,065,826, 11–27–62, Cl. 187—52.

Tucker, Carl L., and H. L. Laube, to Remington Corp. Air conditioning system. 3,037,364, 6–5–62, Cl. 62—158.

Tucker, Connell A., and R. Brydolf, to Acme Appliance Mfg. Co. Vertically adjustable sliding door hanger. 3,048,882, 8–14–62. Cl. 16—105.

Tucker, Ell J., Jr., to National Bone and Tissue Laboratories, Inc. Method of preserving tissue such as bones. 3,022,783, 2–27–62. Cl. 128—1.

Tucker, Elton B.: *See*—
Nerheim, Arvie G., and Tucker. 3,050,984.

Tucker, Emmitt M., Sr., to Tucker & Sons. Tractor wheel with adjustable grousers. 3,016,270, 1–9–62. Cl. 301—48.

Tucker, Emmitt M., Sr. to Tucker & Sons. Endless track unit. 3,051,531, 8–28–62, Cl. 305—50.

Tucker, F. E.: *See*—
Doyle, William M. 3,029,754.

Tucker, Cordon. Hammer cap. 3,067,790, 1211–62, Cl. 145—29.

Tucker, Herbert E., to Cardwell Westinghouse Co. Draft gear for railway cars. Re. 25,110, 1–9–62, Cl. 213—45.

Tucker, James W.: *See*—
Lauck, Robert M., and Tucker. 3,041,177.

Tucker, James W., to Stauffer Chemical Co. Stabilized sodium acid pyrophosphate baking acid and method of making the same. 3,034,899, 5–15–62, Cl. 99—95.

Tucker, Linwood G., Jr., to Koppers Co., Inc. Recirculation underjet coking retort oven. 3,047,474, 7–31–62, Cl. 202—143.

Tucker, Marlon K.: *See*—
Murphy, John M., Tucker, and Fogt. 3,016,183.

Tucker, Morton. Adjustable track roller for sliding doors. 3,060,524, 10–30–62, Cl. 20—19.

Tucker, Nathaniel G.: *See*—
Busch, Irving, and Tucker. 3,028,057.

Tucker, Robert D.: *See*—
Phillips, Harry, Maciejowski, Shafer, Tucker, and Fuller. 3,018,594.

Tucker, Robert G.: *See*—
Gordon, Charles W., and Tucker. 3,031,982.

Tucker, Robert L.: *See*—
Broome, Marshall B., and Tucker. 3,044,175.

Tucker, Robert L., to Well Surveys Inc. Apparatus for regulating belt-type electrostatic generators. 3,046,467, 7–24–62, Cl. 322—2.

Tucker & Sons: *See*—
Tucker, Emmitt M., Sr. 3,016,270.
Tucker, Emmitt M., Sr. 3,051,531.

Tucker, Stanley, to Socony Mobil Oil Co., Inc. Hydrogen production in a TCC process. 3,028,331, 4–3–62, Cl. 208—124.

Tuckey, Charles H., to Walbro Corp. Fuel pump. 3,022,737, 2–27–62, Cl. 103—44.

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Tudbury Chester A., to The Ohio Crankshaft Co. Vibration protective device. 3,020,452, 2–6–62, Cl. 317—165.

Tudge, Joseph, to Metropolitan-Vickers Electrical Co. Ltd. Electrical turbo generators. 3,030,530, 4–17–62, Cl. 310—55.

Tudge, Joseph, to Associated Electrical Industries Ltd. Dynamo electric machines. 3,046,424, 7–24–62, Cl. 310—61.

Tudor, Aktiebolaget: *See*—
Sundberg, Erik G. 3,055,966.
Sundberg, Erik G. 3,064,066.

Tudor, Richard: *See*—
Glover, Wilfrid, and Tudor. 3,063,884.

Tudos, Redmond F., Jr. Foot-ease pedal-holding device. 3,023,633, 3–6–62, Cl. 74—513.

Tuemmler, William B.: *See*—
Garman, John A., and Tuemmler. 3,035,084.

Tuft, George L., to Crown Zellerbach Corp. Dispenser receptacle for folded sheets. 3,028,047, 4–3–62, Cl. 221—44.

Tuft, Roy E., to General Electric Co. Damping turbine buckets. 3,037,741, 6–5–62, Cl. 253—77.

Tufts, William F. Shoulder guard for garment hangers. 3,031,135, 4–24–62, Cl. 223—98.

Tufts, William F. Garment hanger. 3,049,272, 8–14–62, Cl. 223—88.

Tufts, William S.: *See*—
Eggert, Lewis J., and Tufts. 3,018,340.

Tuinila, Raymond P., and W. Caithness, to Raytheon Co. Electron discharge device cathodes. 3,027,480, 3–27–62, Cl. 313—107.

Tuinman, Jan: *See*—
Van Duuren, Hendrik C. A., and Tuinman. 3,026,372.

Tulane Educational Fund, The Administration of The: *See*—
Heath, Robert G., and Leach. 3,047,465.

Tulgan, Stanley S.: *See*—
Tykulsky, Alexander, Shapiro, and Tulgan. 3,031,619.

Tulgan, Stanley S., and J. M. Shapiro, to Manson Laboratories, Inc. UHF tuned load circuit. 3,064,215, 11–13–62, Cl. 334—45.

Tulin, Marshall P. Supercavitating hydrofoils. 3,065,723, 11–27–62, Cl. 114—66.5.

Tulk, Alexander S.: *See*—
MacInnis, Martin B., and Tulk. 3,055,741.

Tull, William J., and J. W. Gray, to General Precision, Inc. Aircraft instrument approach and landing system. 3,032,756, 5–1–62, Cl. 343—6.

Tullar, Benjamin F., to Sterling Drug Inc. Processes and intermediate products. 3,056,799, 10–2–62, Cl. 260—319.

Tuller, William G., to Melpar, Inc. Spectrum analyzers. 3,038,069, 6–5–62, Cl. 250—20.

Tuller, William N., and F. L. Jackson, to Freeport Sulphur Co. Purification of sulfur. 3,042,503, 7–3–62, Cl. 23—310.

Tullio, Victor, to E. I. du Pont de Nemours and Co. Fiber dyeing process. 3,044,843, 7–17–62, Cl. 8—17.

Tulloch, Douglass F.: *See*—
Benway, Richard F., and Tulloch. 3,033,969.

Tulloch, Charles W., to E. I. du Pont de Nemours and Co. Process for preparing N-chlorobis (trifluoromethyl) amine. 3,052,723, 9–4–62, Cl. 260—583.

Tullock, Charles W., to E. I. du Pont de Nemours and Co. Carbon fluorine and nitrogen containing compounds and method for producing the same. 3,057,849, 10–9–62, Cl. 260—192.

Tullos, Mary D. Hair-dressing cap. 3,064,267, 11–20–62, Cl. 2—174.

Tulloss, Joseph C.: *See*—
Beeker, James O., and Tulloss. 3,035,114.

Tullsen, Volney: *See*—
Schmidt, Harold N., Tullsen, Katz, and Lytle. 3,022,299.

Tulp, Theodorus J.: *See*—
De Miranda, Heine A. R., Cluwen, and Tulp. 3,038,084.
De Miranda, Heine A. R., and Tulp. 3,024,367.
Heijn, Herman J., Samwel, and Tulp. 3,053,994.

Tulp, Wijbrand J., to N.V. Machinefabriek Frans Smulders. Linings for guiding slide valves, disc valves or like members in a valve casing. 3,022,041, 2–20–62, Cl. 251—324.

Tulsa Railway Seal Manufacturers, Inc.: *See*—
Johnson, Loran L. 3,069,179.

Tumavicus, Julius W., to United Aircraft Corp. Dirigible reaction motor. 3,048,011, 8–7–62, Cl. 60—35.55.

Tumavicus, Julius W., to United Aircraft Corp. Rocket vectoring arrangement. 3,057,581, 10–9–62, Cl. 244—52.

Tumavicus, Julius W., to United Aircraft Corp. Reflector for space vehicle. 3,064,534, 11–20–62, Cl. 88—84.

Tumavicus, Julius W., to United Aircraft Corp. Cooled nozzle structure. 3,066,702, 12–4–62, Cl. 138—111.

Tumavicus, Julius W., to United Aircraft Corp. Header for liquid fuel rocket. 3,068,649, 12–18–62, Cl. 60—39.46.

Tumavicus, Julius W., to United Aircraft Corp. Propellant supply system for rockets. 3,069,851, 12–25–62, Cl. 60—35.55.

Tumey, Lawrence F., to FMC Corp. Molding apparatus. 3,030,688, 4–24–62, Cl. 25—121.

Tumey, Lawrence F., to FMC Corp. Apparatus for depressing cables. 3,050,283, 8–21–62, Cl. 254—51.

Tumino, Carmen G.: *See*—
Miller, Roland E., and Tumino. 3,027,699.

Tummes, Hans: *See*—
Buchner, Karl, and Tummes. 3,047,599.

Tumolo, Anthony L.: *See*—
Maggiolo, Allison, and Tumolo. 3,023,233.

Tumulne Co., of Georgia, Inc., The: *See*—
Reinhard, Karl J., and Swoboda. 3,022,028.

Tung-Sol Electric Inc.: *See*—
Atkins, Carl E., and Pepling. 3,025,434.
Carlat, Benedict, and Fidler. 3,049,451.
Firth, Bernard G. 3,023,344.
Firth, Bernard G. 3,023,365.
Green, Ralph J. 3,025,435.
Green, Ralph J. 3,031,747.
Hower, Meade M., and Voorhis. 3,041,510.
Kuykendall, James H. 3,032,684.
Loomis, Donald C. 3,032,685.
Mayer, Donald W. 3,041,210.
Price, Edward M. 3,017,018.
Quinn, Halsey P. 3,049,642.
Shamos, Morris H. 3,056,123.
Silberg, Hemming G. 3,032,620.
Silberg, Hemming G. 3,052,780.
Skellett, Albert M. 3,029,395.
Wegener, Horst A. R. 3,025,438.

Tungum Co, Ltd., The: *See*—
Shaw, John. 3,062,065.

Tunick, Alan C.: *See*—
Zink, Leonard N., and Tunick. 3,061,480.

Tunley, Allan A., to Baker Perkins Ltd. Sieves or screen. 3,024,744, 3–13–62, Cl. 107—44.

Tunnessen, William G., to Tunnessen's Radiator Shop. Spacer. 3,055,398, 9–25–62, Cl. 138—111.

Tunnessen's Radiator Shop: *See*—
Tunnessen, William G. 3,055,398.

Tunstall, Norman J.: *See*—
Gentle, Alexander H., Richmond, and Tunstall. 3,034,279.

Tuomy, Justin M.: *See*—
Marsh, Richard O., and Tuomy. 3,067,043.

Tuper, Earl S. Filamentous decoration and fabrication process. 3,046,178, 7–24–62, Cl. 156—167.

Tuplin, William A., E. A. Gwinnett, and H. W. Jenkins, to Rubery Owen & Co. Ltd. Winches. 3,066,917, 12–4–62, Cl. 254—175.7.

Tupper Corp.: *See*—
Tupper, Earl S. 3,044,610.
Tupper, Earl S. 3,044,611.

Tupper, Earl S., to Tupper Corp. Discardable or reusable plastic package. 3,044,610, 7–17–62, Cl. 206—46.

Tupper, Earl S., to Tupper Corp. Discardable or reusable plastic package. 3,044,611, 7–17–62, Cl. 206—46.

Tupper, Earl S., to Rexall Drug and Chemical Co. Vessels and handles therefor. 3,044,659, 7–17–62, Cl. 220—94.

Tupper, Myron D.: *See*—
Thompson, Paige W., and Tupper. 3,020,105.

Tupper, Myron D., to General Electric Co. Core and coil improvement for small motors and the like. 3,024,377, 3–6–62, Cl. 310—172.

Tupper, Myron D., to General Electric Co. Thrust bearing arrangement for dynamoelectric machines. 3,038,765, 6–12–62, Cl. 308—163.

Tupper, Thomas J. Sealing device. 3,034,819, 5–15–62, Cl. 292—307.

Turai, Leslie L., to West Virginia Pulp and Paper Co. Greaseproof coating composition and product. 3,030,323, 4–17–62, Cl. 260—28.5.

Turak, Anthony. Fluid mixing valve. 3,047,021, 7–31–62, Cl. 137—636.1.

Turansky, Clement J.: *See*—
Nesselbush, Robert C., and Turansky. 3,058,482.

Turbin Aktiebolaget de Laval Ljungstrom: *See*—
Moller, Ragnar O. J., and Friluud. 3,056,263.
Nicolin, Curt R. 3,048,018.

Turbine Equipment Co.: *See*—
Koester, George L., Jr. 3,031,563.
Turbitt, Ronald F., to Union Carbide Canada Ltd. Electric arc apparatus. 3,025,388, 3–13–62, Cl. 219—131.
Turbodrill International Corp.: *See*—
Tiraspolsky, Wladimir, and Rouviere. 3,039,735.
Tiraspolsky, Wladimir, and Rouviere. 3,055,440.
Turbomachines Ltd.: *See*—
Barr, John C. 3,069,137.
Turck, Joseph A. V., Jr.: *See*—
Lawrence, Kenneth B., and Turck. 3,066,928.
Turck, Joseph A. V., Jr., to Colgate-Palmolive Co. Combination soap-synthetic detergent bar. 3,030,310, 4–17–62, Cl. 252—121.
Turdo, Joseph C., and N. Shapiro. Classification device. 3,059,771, 10–23–62, Cl. 209—99.
Turek, Herbert, to Kinkead Industries, Inc. Method of making a square-cornered bridging and joining frame. 3,038,-252, 6–12–62, Cl. 29—548.
Turek, James R., E. C. Petrie, and R. B. Attridge, to Crane Co. Recessed soap holder. 3,022,602, 2–27–62, Cl. 45—28.
Turek, James R., and R. P. Kolena, to Crane Co. Magnetically retained removable closet seat and cover. 3,038,-173, 6–12–62, Cl. 4—236.
Turgeon, Joseph A., to Eastern Power Devices Ltd. Auxiliary jaw with adjustable beaver tail blade. 3,067,300, 12–4–62, Cl. 200—48.
Turin, John J.: *See*—
Beggs, Donald, Huebler, Sabin, Scarlett, and Turin. 3,021,236.
Turinetti, Henri: *See*—
Bertin, Jean H., Kodosch, Maunoury, De La Salle, and Turinetti. 3,024,602.
Bertin, Jean H., Kadosch, Turinetti, and Marchal. 3,048,974.
Turissa Sewing Machine Factory Ltd.: *See*—
Urscheler, Emil. 3,034,461.
Turk, Stanley D.: *See*—
Nelson, William T., and Turk. 3,070,518.
Turk, Walter E., to English Electric Valve Co. Ltd. Television camera tubes. 3,035,197, 5–15–62, Cl. 313—65.
Turk, Walter E., to English Electric Valve Co. Ltd. Television camera tubes. 3,070,720, 12–25–62, Cl. 313—65.
Turk, Walter E., and P. C. Ruggles, to English Electric Valve Co. Ltd. Television camera tubes. 3,035,196, 5–15–62, Cl. 313—65.
Turkewitsch, William, to The Scholl Mfg. Co., Inc. Plaster of Paris composition, and production of bandages using the same. 3,055,360, 9–25–62, Cl. 128—91.
Turlay, Joseph D. Inertia operated mine firing device. 3,016,-012, 1–9–62, Cl. 102—17.
Turlay, Joseph D., to General Motors Corp. Crankshaft. 3,045,507, 7–24–62, Cl. 74—603.
Turley, Alfred: *See*—
Cole, George F., and Turley. 3,042,395.
Turley, Alfred, to Vono Ltd. Spring unit lacing machine. 3,026,914. 3–27–62, Cl. 140—92.7.
Turley, Alfred, to Vono Ltd. Clutch. 3,055,235, 9–25–62, Cl. 74—781.
Turley, Hobart M.: *See*—
Hauk, Ernest D., and Turley. 3,038,502.
Turley, William E., to W. B. and J. W. Hargreaves. Knockdown desk. 3,030,164. 4–17–62, Cl. 312—195.
Turman, Odis A. Package dispensing machine. 3,057,513, 10–9–62, Cl. 221—14.
Turman, Toby L., to Sprague & Henwood, Inc. Bases for mounting deflecting wedges of earth-boring or drilling equipment. 3,029,874, 4–17–62, Cl. 166—212.
Turnauer, Gerald C.: *See*—
Behrens, Herbert C., and Turnauer. 3,065,878.
Turnblom, Gerald D.: *See*—
Brooks, Ray G., and Turnblom. 3,034,733.
Turnbloom, Carl H.: *See*—
Haegele, Rowland W., Heil, and Turnbloom. 3,043,985.
Turnbull, Andrew A.: *See*—
Schagen, Pieter, and Turnbull. 3,027,218.
Turnbull, John: *See*—
Davies, Raymond J., and Turnbull. 3,025,076.
Turnbull, John C., to Radio Corp. of America. Method of fabricating a cathode ray tube. 3,041,127, 6–26–62, Cl. 316—19.
Turnbull, Maynard H., Jr., to Allis-Chalmers Mfg. Co. Relief valve unit for adjustable blade turbine. 3,068,878, 12–18–62, Cl. 137—56.
Turnbull, Norman K., and H. Kahn, to United States of America, Army. Expendable screw mortar. 3,031,931, 5–1–62, Cl. 89—1.
Turnbull, Robert W., to Fram Corp. Filter of sintered metal fibers and method of making the same. 3,030,302, 4–17–62, Cl. 210—510.
Turner, Alan, and W. A. Revitt, to Ericsson Telephone Ltd. Multi-electrode gas-filled discharge tubes. 3,025,427, 3–13–62, Cl. 313—188.
Turner, Allen H.: *See*—
Artman, Robert A., Root and Turner. 3,017,115.
Irland, Max J., and Turner. 3,054,697.
Turner, Almerin W.: *See*—
Hurst, Thomas L., and Turner. 3,047,471.
Hurst, Thomas L., and Turner. 3,067,108.
Turner, Arthur A. Clothes drier. 3,064,361, 11–20–62, Cl. 34—91.
Turner, Arthur G., ½ to F. W. Frost, (Engineers) Ltd. Box making machine. 3,041,943, 7–3–62, Cl. 93—41.
Turner, Benjamin R., to Rohn Mfg. Co. Sectional tower means. 3,020,985, 2–13–62, Cl. 189—19.
Turner, Charles E.: *See*—
Kalleberg, Melvin O., and Turner. 3,062,683.
Turner, Charles F.: *See*—
Voelz, Gordon J., Maier and Turner. 3,036,307.
Turner, Charles R., to The Proctor-Silex Corp. Position selection means. 3,064,091, 11–13–62, Cl. 200—5.
Turner, Charles R., to The Proctor-Silex Corp. Cooking temperature control apparatus. 3,070,684, 12–25–62, Cl. 219—20.
Turner Co., The: *See*—
Swinehart, Frank. 3,061,690.
Turner Corp.: *See*—
Bohn, Alfred T., and Berge. 3,055,595.
Vrshek, Steven M. 3,055,397.
Turner, Daniel L., to Collins Radio Co. Reflected power alarm for a variable power output antenna system. 3,020,529, 2–6–62, Cl. 340—253.
Turner, Denys G.: *See*—
Balkin, Mark, and Turner. 3,031,357.
Turner, Donald W.: *See*—
Ranby, Peter W., and Turner. 3,068,114.
Turner, Edgar C., and A. N. Cook, to The Singer Mfg. Co. Thread break sensing device for sewing machines. 3,029,-763, 4–17–62, Cl. 112—219.
Turner, Edward H.: *See*—
Trambarulo, Ralph F., and Turner. 3,040,276.
Turner, Edward H., to Bell Telephone Laboratories, Inc. Transversely magnetized non-reciprocal microwave device. 3,023,379, 2–27–62, Cl. 333—9.
Turner, Edwin E., to Raytheon Co. Doppler navigation systems. 3,065,463, 11–20–62, Cl. 343—9.
Turner, Edwin S., and J. L. R. Boyce, to Stevenson, Turner and Boyce Ltd. Teat dilator. 3,030,960, 4–24–62, Cl. 128—348.
Turner, Ernest S.: *See*—
Klein, George J., Fischer, and Turner. 3,040,748.
Turner, Eugene L.: *See*—
Krajowsky, Michael, and Turner. 3,028,792.
Turner, Florice S. Coffee maker. 3,023,691, 3–6–62, Cl. 99—287.
Turner, Frank E., to Blaw-Knox Co. Apparatus for continuous coating of elongated articles. 3,063,409, 11–13–62, Cl. 118—426.
Turner, Frank T.: *See*—
Buckingham, William D., Lane, Ridge, and Turner. 3,056,034.
Turner, Fred R. Handtrucks. 3,035,727, 5–22–62, Cl. 214—370.
Turner, Frederick J. L., and B. S. Mason, to Creed & Co. Ltd. Tape feed apparatus. 3,044,675, 7–17–62, Cl. 226—11.
Turner, George K.: *See*—
Pickels, Edward G., and Turner. 3,041,921.
Turner, George L., to H. B. Sherman Mfg. Co. Lawn sprinkler. 3,045,923, 7–24–62, Cl. 239—230.
Turner, George W., to Backhaul, Inc. Transport trailer. 3,033,606, 5–8–62, Cl. 296—1.
Turner, Gilbert M.: *See*—
Banford, William H., and Turner. 3,068,245.
Turner, Gordon H., J. R. Wellington, C. A. Sutherland, and A. G. White, to The Consolidated Mining and Smelting Co. of Canada Ltd. Method for producing metal spheres. 3,063,099, 11–13–62, Cl. 18—48.
Turner Hall Corp.: *See*—
Strain, Robert J., and Tusa. 3,025,218.
Turner, Harold C., to Imperial Chemical Industries Ltd. Process of arc welding copper. 3,031,568, 4–24–62, Cl. 219—74.
Turner, Harold D., to Masonite Corp. Method of producing lignocellulose hardboard. 3,054,717, 9–18–62, Cl. 162—123.
Turner, Harold D. Air-supported building. 3,059,657, 10–23–62, Cl. 135—1.
Turner, Harold H., to The Ingersoll Milling Machine Co. Positioning mechanism. 3,015,812, 1–2–62, Cl. 340—282.
Turner, Harry W.: *See*—
Harpham, John A., and Turner. 3,069,311.
Turner, Herman B., to King Mfg. Corp. Disjointing machine for carcass limbs. 3,038,197, 6–12–62, Cl. 17—11.
Turner, Inus B., and R. R. Griffin. Circular trowel. 3,025,-549, 3–20–62, Cl. 15—235.6.
Turner, James F., W. H. Bartman, and C. H. Smith, Jr., to Flynn & Emrich Co. Constant flow stoker. 3,057,309, 10–9–62, Cl. 110—8.
Turner, James R., and A. R. Cline, to Shell Oil Co. Process for treating soil. 3,070,434, 12–25–62, Cl. 71—54.
Turner, John B. Fireplace tools. 3,042,438, 7–3–62, Cl. 294—11.
Turner, John N.: *See*—
Hinton, Anthony J., Morley, and Turner. 3,065,123.
Turner, John W.: *See*—
Lowrey, George A., and Glaze. 3,062,292.
Turner, Lloyd D.: *See*—
Jorgensen, Chester N., Stork, and Turner. 3,067,930.
Turner, Manuel L. Synchronization system. 3,067,285, 12–4–62, Cl. 178—69.5.
Turner Mfg. Co. Ltd.: *See*—
Bryant, William C. 3,069,289.
Morrison, William M. M. 3,038,497.
Morrison, William McK. 3,044,451.

Turner, Marion W. Bobber with float controlled line. 3,063,188, 11–13–62, Cl. 43—43.11.

Turner, Paul A.: *See*—
Chial, Stanley M. 3,016,585.

Turner, Philip G., to The International Nickel Co., Inc. Hollow turbine blades. 3,026,605, 3–27–62, Cl. 29—156.8.

Turner, Philip G., to The International Nickel Co., Inc. Manufacture of turbine or compressor blades. 3,028,661, 4–10–62, Cl. 29—156.8.

Turner, Philip G., and C. C. Horne, to The International Nickel Co., Inc. Manufacture of hollow turbine blades. 3,045,328, 7–24–62, Cl. 29—156.8.

Turner, Ralph L., Jr., to Hughes Aircraft Co. Extensible electric cable. 3,027,417, 3–27–62, Cl. 174—69.

Turner, Ralph R., to United Wire & Supply Corp. Automatic feeder. 3,040,911, 6–26–62, Cl. 214—8.5.

Turner, Richard J.: *See*—
Goodemoot, Kenneth, and Turner. 3,055,886.

Turner, Robert, to Aerofall Mills Inc. Synthetic charge for material reduction mills. 3,058,675, 10–16–62, Cl. 241—182.

Turner, Robert M., to Lockhead Aircraft Corp. Correction circuit for dual sinusoid generator. 3,050,694, 8–21–62, Cl. 331—45.

Turner, Robert R.: *See*—
MacPherson, Arthur R., and Turner. 3,017,993.

Turner, Roland P. Leak locator method and apparatus. 3,023,606, 3–20–62, Cl. 33—125.

Turner, Roscoe E., and W. H. Nowotny. Ballast extraction method and apparatus. 3,062,590, 11–6–62, Cl. 302—58.

Turner, Stanley. Process for the production of high impact type castings by the copolymerization of epoxy compounds with amins. 3,051,664, 8–28–62, Cl. 260—2.

Turner, Stanley E., and R. L. Caldwell, to Socony Mobil Oil Co., Inc. Silica-alumina radioactive logging. 3,035,174, 5–15–62, Cl. 250—83.3.

Turner, Vernon L., Jr., to E. I. du Pont de Nemours and Co. Process for determining amount and uniformity of distribution of colloidal silica. 3,032,401, 5–1–62, Cl. 23—230.

Turner, Wheeler M., to Arnoux Corp. Time division multiplexing system. 3,052,759, 9–4–62, Cl. 179—15.

Turner, Wheeler, M., to Security First National Bank. Self-correcting, high fidelity, sound reproducing apparatus. 3,057,961, 10–9–62, Cl. 179—1.

Turner, Wheeler M., and L. H. Chabot, said Turner assor. to Security First National Bank. High-gain frequency modulation tuner. 3,053,981, 9–11–62, Cl. 250—20.

Turner, William C., and R. F. Riggs, to United States of America, Navy. Automatic attenuator control. 3,060,381, 10–23–62, Cl. 325—362.

Turner, William E. Fruit jar pouring spout. 3,042,269, 7–3–62, Cl. 222—484.

Turner, William F., to Bodendieck Tool Co. Lever hot stick for compressing sleeves and connectors. 3,057,233, 10–9–62, Cl. 81—15.

Turner, William M.: *See*—
Carpenter, Virgil R., and Turner. 3,021,606.
Carpenter, Virgil R., and Turner. 3,035,510.

Turner, William P., and C. F. Arantz, Jr., to United States of America, Air Force. Measurement of efficiency of small linearly polarized antennas. 3,058,108, 10–9–62, Cl. 343—100.

Turner, William V., to Stewart-Warner Corp. Lubrication system. 3,066,758, 12–4–62, Cl. 184—7.

Turney, Eugene T., Jr. Method of making serialized nameplates. 3,054,172, 9–18–62, Cl. 29—413.

Turnquest, Byron W.: *See*—
Burk, Emmett H., Jr., and Turnquest. 3,044,956.

Turnquist, Edwin W., to Braden Winch Co. Cable winch. 3,020,022, 2–6–62, Cl. 254—175.7.

Turnupseed, Donald G.: *See*—
Turnupseed, Harley E., and D. G. 3,024,397.

Turnupseed, Harley E. and D. G. Safety system for single phase motors. 3,024,397, 3–6–62, Cl. 318—221.

Turowski, Johannes: *See*—
Lang, Karl F., Metzendorf, Gick, and Turowski. 3,023,125.
Lang, Karl F., Metzendorf, Turowski, and Gick. 3,023,255.

Turpin, Alexander J.: *See*—
Schreter, Robert E., and Turpin. 3,033,245.

Turpin, Alexander J., to Hauck Mfg. Co. Low air pressure burner. 3,045,745, 7–24–62, Cl. 158—76.

Turpin, Charles H., to The Pillsbury Co. Package. 3,040,963, 6–26–62, Cl. 229—43.

Turpin, Henderson L., Jr.: *See*—
Oglesby, Nicholas P., Turpin, and Fowlkes. 3,039,208.

Turrentine, Rudolph A., to Brown & Root, Inc. Floating buoy retrieving hook. 3,022,763, 2–27–62, Cl. 114—221.

Turton, Cecil B., to General Electric Co. Busway plug power take-off devices. 3,028,460, 4–3–62, Cl. 200—51.

Turton, Walter, to J. P. Stevens & Co., Inc. Tricot fabric with satin face. 3,027,738, 4–3–62, Cl. 66—195.

Turunen, William A.: *See*—
Bubnlak, William C., Haushalter, Ricketts, Turunen, and Vickers. 3,057,604.
Conklin, Emmett D., Flanigan, Ricketts, and Turunen. 3,027,717.

Tusa, John, and G. Hollington, to Bata Shoe Co. Inc. Moulded rubber footwear. 3,064,288, 11–20–62, Cl. 12—142.

Tusa, Philip: *See*—
Strain, Robert J., and Tusa. 3,025,218.

Tuschhoff, John V.: *See*—
Smith, Clifford E., and Tuschhoff. 3,069,410.

Tuschhoff, John V., and C. E. Smith, to A. E. Staley Mfg. Co. Acylation of starch. 3,022,289, 2–20–62, Cl. 260—233.5.

Tuskan, William G.: *See*—
Barney, James E., II, Tuskan, and Hensley. 3,058,813.

Tuten, Gilbert W., and E. R. Maki, to Luminous Ceilings, Inc. Subceiling track structure. 3,035,672, 5–22–62, Cl. 189—85.

Tuten, Thomas J. Master hydraulic brake cylinder. 3,049,885, 8–21–62, Cl. 60—54.6.

Tuthill Pump Co.: *See*—
Maisch, Oliver. 3,029,740.
Maisch, Oliver. 3,044,496.

Tutthill, Fred E., to Kenco Pump Divisions of the American Crucible Products Co. Adjustable high turn-on control. 3,070,021, 12–25–62, Cl. 103—25.

Tuttle Electric Products, Inc.: *See*—
Newman, Amos W., and Jacobson. 3,016,441.

Tuttle, Harve H. Spawn tray assembly. 3,028,837, 4–10–62, Cl. 119—3.

Tuttle, John R.: *See*—
Epperly, William R., Tuttle, Feldbauer, and Tysen. 3,063,934.

Tuttle, Kenneth W., and P. Gammill, Jr., ½ to R. H. Darrow. Power casting device. 3,015,182, 1–2–62, Cl. 43—19.

Tuttle, Leon G.; *See*—
Burnett, Edward N., Cross, and Tuttle. 3,040,909.

Tuttle, Robert A., to International Business Machines Corp. Magnetic recording system. 3,035,255, 5–15–62, Cl. 340—174.1.

Tuttle, Robert N.: *See*—
Merlyn, John W., and Tuttle. 3,054,358.

Tuttle, Robert S.: *See*—
Osborne, Fred H., Tuttle, and Riggs. 3,050,309.

Tuttle, Seth, 50% to S. H. Gates. Water jet propelling device. 3,044,259. 7–17–62. Cl. 60—35.54.

Tuttle, Thomas W.: *See*—
Haigh, Leslie B., Bisk, and Tuttle. 3,048,662.

Tutwiler, Thomas S.: *See*—
Michaels, Adlai E., Nostrand, and Tutwiler. 3,058,818.

Tuznik, Richard H.: *See*—
Wolfskill, John M., and Tuznik. 3,046,423.

Tuzzalino, Costenzio A. Carburator, condenser and drain. 3,063,440, 11–13–62, Cl. 123—198.

Tvedt, Thorwald J., to Shell Oil Co. Polarized phase discriminating circuit with limited direct current flow. 3,047,-810, 7–31–62, Cl. 328—134.

Tvorik, Stephen W., and A. Braunitzer. Ceiling hanger. 3,046,620, 7–31–62, Cl. 20—92.

Tvorik, Stephen W., and A. Braunitzer. Cove molding. 3,041,112, 7–3–62, Cl. 189—87.

Twaddell, Russell W., and S. E. Gregoire, to The Bendix Corp. Electrical apparatus. 3,020,449, 2–6–62, Cl. 317—79.

Twaits, Joseph B., Jr. Quick release buckle for harness. 3,034,596, 5–15–62, Cl. 182—3.

Twamley, William E., and J. W. Carroll, to Brown & Sharpe Mfg. Co. Cutting-off tool post. 3,043,173, 7–10–62, Cl. 82—37.

Twedt, Arthur B. Invalid lifter and transporting device. 3,041,636, 7–3–62, Cl. 5—81.

Tweet, John H., to United Aircraft Corp. Rocket pump starting system. 3,032,984, 5–8–62, Cl. 60—39.14.

Tweit, Robert C., to G. D. Searle & Co. 2-(aralkylthio) tetrahydropyrimidines and derivatives thereof. 3,025,295, 3–13–62, Cl. 260—251.

Tweit, Robert C., to G. D. Searle & Co. 17α-(2-carboxyethyl)-7,17β-dihydroxyandrost-4-en-3-one γ-lactones and esters thereof. 3,063,993, 11–13–62, Cl. 260—239.57.

Twelves, Robert D., to Olin Mathieson Chemical Corp. Preparation of acyl hydrazine derivatives. 3,023,241, 2–27–62, Cl. 260—561.

Tweuther, Max E. Clasp for wrist band. 3,034,189, 5–15–62, Cl. 24—243.

Twentieth Century-Fox Film Corp.: *See*—
Alden, Alex E. 3,035,488.

Tweten, Ludvig. Car top boat loader and carrying mechanism. 3,045,849, 7–24–62, Cl. 214—450.

Twiggs, Robert D., Jr. Shoes. 3,016,630, 1–16–62, Cl. 36—2.5.

Twin City Automatic, Inc.: *See*—
Antoine, Ronald J. 3,052,899.

Twin Disc Clutch Co.: *See*—
Aschauer, George R. 3,063,531.
Bloch, Peter, and Black. 3,054,491.
Yokel, Edward C. 3,042,165.

Twin Tone Tap Co., Inc.: *See*—
Merkle, Raymond F. 3,052,995.

Twin Trees Gardens, Inc.: *See*—
Mangravite, George H. 3,070,251.

Twincon, N.V., Koog-Zaandijk: *See*—
Sinnema, Yde A. 3,070,445.

Twist, Ottis D. Fan. 3,036,642, 5–29–62, Cl. 170—159.

Twitchell, Sherman W., and J. B. Bradicich, to FMC Corp. Apparatus for feeding sheet material. 3,016,240, 1–9–62, Cl. 271—11.

Twitchell, Sherman W., and J. B. Bradicich, to FMC Corp. Box forming apparatus. 3,046,848, 7–31–62, Cl. 93—41.

Twyford, Robert H.: *See*—
Hartnett, Stephen E., and Twyford. 3,063,541.

Twyford, Robert H., to Atlantic Research Corp. Rocket nozzles. 3,050,938, 8–28–62, Cl. 60—35.55.

Tyce, Theodore C., and L. M. Taylor. Light weight engine. 3,064,634, 11–20–62, Cl. 123—41.74.

Tyczkowski, Edward A.: *See*—
Inman, Charles E., Oesterling, and Tyczkowski. 3,030,-408.
Inman, Charles E., Oesterling, and Tyczkowski. 3,067,-211.
Inman, Charles E., Oesterling, and Tyczkowski. 3,070,-593.
Inman, Charles E., Oesterling, and Tyczkowski. 3,070,-609.

Tydeman, Clarence W., to Tydeman Machine Works, Inc. Air-cooled pump assembly for hydraulic fluid and the like. 3,048,119, 8–7–62, Cl. 103—118.

Tydeman, Clarence W., to Tydeman Machine Works, Inc. High pressure fluid seal. 3,068,018, 12–11–62, Cl. 277—165.

Tydeman Machine Works, Inc.: *See*—
Tydeman, Clarence W. 3,048,119.
Tydeman, Clarence W. 3,068,018.

Tydings, John E.: *See*—
Giardini, Armando A., and Tydings. 3,067,465.

Tydor, Fred, to Salmanson & Co., Inc. Chaise, lounge and the like. 3,031,228, 4–24–62, Cl. 297—323.

Tye, Frank L., to The Permutit Co. Ltd. Electrodialysing cells. 3,046,211, 7–24–62, Cl. 204—180.

Tygart, James C. Bi-swing spray booms and means for hydraulically actuating the same. 3,043,519, 7–10–62, Cl. 239—167.

Tykulsky, Alexander, J. M. Shapiro, and S. S. Tulgan, to Manson Laboratories Inc. High precision multipurpose reference oscillator circuit arrangement. 3,031,619, 4–24–62, Cl. 324—79.

Tyler, Hugh J., to Robertshaw-Fulton Controls Co. Control apparatus. 3,040,155, 6–19–62, Cl. 219—20.

Tyler, Hugh J., to Robertshaw-Fulton Controls Co. Electric thermostat. 3,059,084, 10–16–62, Cl. 219—20.

Tyler, John M., and G. B. Towle, to United Aircraft Corp. Slotted jet engine noise suppressor. 3,027,713, 4–3–62, Cl. 60—35.6.

Tyler, John M., and T. G. Sofrin, to United Aircraft Corp. Jet wake noise intensity pattern control means. 3,033,494, 5–8–62, Cl. 244—54.

Tyler, Leslie J.: *See*—
Rauner, Lawrence A., and Tyler. 3,015,637.

Tyler, Leslie J., to Dow Corning Corp. Silica powders. 3,015,645, 1–2–62, Cl. 260—46.5.

Tyler, Peter J.: *See*—
Graber, Joseph V., and Tyler. 3,040,373.

Tyler Refrigeration Corp.: *See*—
Hennion, Joseph B. 3,062,324.

Tyler, Tracy B. Device for spraying or jetting liquids. 3,061,202, 10–30–62, Cl. 239—333.

Tyler, Tracy B., and A. F. Alders. Body cavity evacuating apparatus. 3,018,779, 1–30–62, Cl. 128—278.

Tyler, Vernal M., to Hughes Aircraft Co. Underwater vehicle. 3,045,623, 7–24–62, Cl. 114—16.8.

Tyler, W. S., Co., The: *See*—
Parks, Walter J. 3,044,624.
Parks, Walter J. 3,045,824.

Tyma, Louis S., Jr.: *See*—
Zimmer, William G., Peterson, Loew, and Tyma. 3,067,675.

Tyma, Louis S., Jr., to Miehle-Goss-Dexter, Inc. Cutting and feeding mechanism. 3,038,719, 6–12–62, Cl. 270—50.

Tyma, Louis S., Jr., and G. R. Peabody, to Miehle-Goss-Dexter, Inc. Throw-off mechanism for offset presses. 3,067,674, 12–11–62, Cl. 101—218.

Tymkewicz, John. Panel-mounted electrical connector. 3,046,516, 7–24–62, Cl. 339—126.

Tynan, Donald E., to International Minerals & Chemical Corp. Process for production of defluorinated calcium phosphate, 3,058,804, 10–16–62, Cl. 23—109.

Tyner, David A., to G. D. Searle & Co. 16-hydrocarbon substituted 16,17-dihydroxy-estren-3-ones, their esters and ethers, and intermediates for their production. 3,042,689, 7–3–62, Cl. 260—397.4.

Tyner, David A., to G. D. Searle & Co. 3-alkoxy-16-methyl-1,3,5 (10)-estratrien-17-ones. 3,049,555, 8–14–62, Cl. 260—397.4.

Tyner, Warren C., to King-Seeley Thermos Co. Variable orifice device. 3,022,497, 2–20–62, Cl. 340—244.

Type-Write Desk Mfg. Co., Inc.: *See*—
Blevins, Kenneth A. 3,034,841.

Typha Products, Inc.: *See*—
Vincent, David A. 3 038,287.
Vincent, David A. 3,061,889.
Vincent, David A. 3,063,125.

Typrowicz, Wladyslaw, to Masson Seeley & Co. Ltd. Work supports. 3,034,432, 5–15–62, Cl. 101—407.

Typrowicz, Wladyslaw, to Masson Seeley and Co. Ltd. Marking presses. 3,052,181, 9–4–62, Cl. 101—41.

Tyree, Lewis, Jr. Fluid pumps. 3,023,710, 3–6–62, Cl. 103—153.

Tyrlick, William V., to General Dynamics Corp. Binary information decoder. 3,015,813, 1–2–62, Cl. 340—347.

Tyrner, Joseph M. Electro-dynamic actuator. 3,052,097, 9–4–62, Cl. 60—52.

Tyrone, Felix A.: *See*—
Cohen, Sol, and Tyrone. 3,032,908.

Tyrrell, Joseph L.: *See*—
Watson, Donald L., and Tyrrell. 3,055,206.

Tyrrell, Paul C., and W. F. Wiley, Jr., to Wilcox Electric Co., Inc. Voltage regulated power supplies. 3,046,466, 7–24–62, Cl. 321—16.

Tyrrell, Robert, Jr. Well-casing centralizers. 3,062,297, 11–6–62, Cl. 166—241.

Tyrrell, Vincent C., to McCulloch Corp. Filing gauge for saw chain. 3,055,115, 9–25–62, Cl. 33—202.

Tyrseck, Walter J., to Robertson Paper Box Co. Inc. Dispensing carrier. 3,015,432, 1–2–62, Cl. 229—52.

Ty-Sa-Man Machine Co.: *See*—
Hensley, James L. 3,020,679.
Hensley, James L. 3,054,224.
Hensley, James L. 3,069,950.

Tysen, Charles W.: *See*—
Epperly, William R., Tuttle, Feldbauer, and Tysen. 3,063,934.

Tyskewicz, John P.: *See*—
Bourne, Roland B., and Tyskewicz. 3,018,840.

Tyson, Charles H., to Philco Corp. Electrode structures and method of fabricating the same. 3,056,900, 10–2–62, Cl. 313—346.

Tyson, Charles W., R. J. De Feo, and W. F. Arey, Jr., to Esso Research and Engineering Co. Halide recovery from spent supported halide catalyst. 3,026,176, 3–20–62, Cl. 23—100.

Tyson, Raymond K., to R. K. Tyson. Collapsible shelter device. 3,018,783, 1–30–62, Cl. 135—5.

Tyson, Thomas P. Spiraled shutter for a motion picture camera. 3,015,986, 1–9–62, Cl. 88—19.3.

Tysinger, Harold E., to M.K.M. Knitting Mills Inc. Stocking machine. 3,059,882, 12–25–62, Cl. 66—173.

Tyzack, Harold, to Motorola, Inc. Dual solenoid operated bidirectional control means. 3,024,375, 3–6–62, Cl. 310—24.

UCB (Union Chimique-Chemische Bedrijven) S.A.: *See*—
Leclercq, Rene, and Colle. 3,058,936.
Verheyden, Albert, and Ochsner. 3,065,219.

UCLAF: *See*—
Vellus, Leon, Nomine, and Bertin. 3,033,751.

U.D. Engineering Co. Ltd.: *See*—
Arber, Rowland S. P. 3,050,179.

USCO Power Equipment Corp.: *See*—
Gilliland, William H. 3,062,936.

USECO, Inc.: *See*—
Senseney, George T., and Hardy. 3,015,792.

Uarco, Inc.: *See*—
Euth, John E. 3,039,345.
Kessler, Jack J. 3,070,009.
Lach, John. 3,056,324.
Pine, Robert M. 3,044,397.
Steidinger, Donald J. 3,033,160.
Steidinger, Donald J. 3,065,979.

Ubbelohde, Leo. False twisting device. 3,045,416, 7–24–62, Cl. 57—77.45.

Uber, Jay J., to The Plastic Coating Corp. Photographic film having a polystyrene base. 3,042,523, 7–3–62, Cl. 96—87.

Uberbacher, Edward C., and R. T. Evans, to International Business Machines Corp. Contact connector operating devices. 3,052,863, 9–4–62, Cl. 339—45.

Ucci, Pompelio A., and N. T. Anderson, to Monsanto Chemical Co. Manufacture of paper products from fibers wet spun from polymer blends. 3,047,456, 7–31–62, Cl. 162—157.

Uchida, Henry S., and T. B. Williams, to Callery Chemical Co. Production of methyl borate. 3,060,219, 10–23–62, Cl. 260—462.

Uchida, Hiroshi: *See*—
Shimula, Yoshihiro, and Uchida. 3,022,423.
Shimula, Yoshihiro, and Uchida. 3,051,834.
Shimula, Yoshihiro, and Uchida. 3,051,835.

Uchida, Hiroshi. Variable discharge mechanism of an axial type plunger pump. 3,033,047. 5–8–62. Cl. 74—60.

Uchida, Ichizo, and K. Satake, to Nippon Electric Co. Ltd. Photoelectric circuit. 3,029,346, 4–10–62, Cl. 250—213.

Uchida, Isamu. Apparatus for counting bank notes and similar articles. 3,025,771, 3–20–62, Cl. 93—93.

Uchida Yoko Co.: *See*—
Kashio, Toshio. 3,015,445.

Uchihara, George S. Brightness range exposure calculator. 3,069,080, 12–18–62, Cl. 235—64.7.

Udaka, Shigezo: *See*—
Kinoshita, Shukuo, and Udaka. 3,028,310.

Udall, Anthony J. S., to Electric & Musical Industries Ltd. Interpolators, especially for control mechanism for automatic machines. 3,022 953, 2–27–62, Cl. 235—197.

Udall, Anthony J. S., to Electric & Musical Industries Ltd. Apparatus for evaluating the rate of change of a variable. 3,040,988, 6–26–62, Cl. 235—183.

Udall, William, ½ to The Brightside Foundry & Engineering Co., Ltd. Apparatus for the mechanical handling of elongate products of a rolling mill. 3,051,290, 8–28–62, Cl. 198—29.

Uddenberg, Goran O. Cervix retaining injection nozzle. 3,048,175, 8–7–62, Cl. 128—245.

Udell, Inc.: *See*—
Garrett, Henry U., Peters, and Dinning. 3,045,759.

Udelman, Jaime K. Pistonless rotary internal combustion engine cooled by pressured air. 3,023,742, 3–6–62, Cl. 123—8.

Udelman, Jaime K. Auxiliary brake for vehicles employing ignition advance feature and exhaust valve opening advance feature. 3,023,870, 3–6–62, Cl. 192—3.

Udstad, Sigvald F.: *See*—
Gallo, Julius R., and Udstad. 3,061,255.

Udy, Marvin J., to Strategic Materials Corp. Ferromanganese production. 3,037,856, 6–5–62, Cl. 75—30.

Udy, Marvin J., to Strategic Material Corp. Sealer-cooler structure for furnace electrodes. 3,060,250, 10–23–62, Cl. 13—17.

Udy, Marvin J., and F. C. Senior, to Strategic Materials Corp. Metallurgical processes. 3,043,681, 7–10–62, Cl. 75—133.5.

Udylite Corp., The: *See*—
Chill, Charles W. 3,024,794.
Jackson, William H. 3,038,851.
Jack-on, William H., and Winter. 3,067,696.

Udylite Research Corp., The: *See*—
Brown, Henry. 3,047,939.

Uebelacker, William J., to Bausch & Lomb Inc. Chuck. 3,050,314, 8–21–62, Cl. 279—46.

Uebele, George S., and N. C. Silence, to Hughes Aircraft Co. Microwave switching device. 3,038,131, 6–5–62, Cl. 333—7.

Ueberwasser, Hellmut: *See*—
Reichstein, Tadeus, Wettstein, Anner, Billeter, Heusler, Neher, Schmidlin, Ueberwasser, and Wieland. 3,033,-858.
Reichstein, Tadeus, Wettstein, Anner, Billeter, Heusler, Neher, Schmidlin, Ueberwasser, and Wieland. 3,035,-049.
Wettstein, Albert, Anner, Heusler, Kalvoda, and Ueberwasser. 3,067,198.

Ueberwasser, Hellmut. 2-aminoalkyl-cycloalkanones. 3,032,-553, 5–1–62. Cl. 260—243.

Ueberwasser, Helmut, and R. Uehlinger, to Ciba Ltd. Rotary evaporators. 3,034,573, 5–15–62, Cl. 159—6.

Uecker, Donald F.: *See*—
Berdlacqua, Frank, Uecker, and Grob. 3,018,240.

Uecker, Norman C., to Lear, Inc. Roll-yaw presentation device. 3,045,356, 7–24–62 Cl. 33—204.

Uecker, Walter W., to I-T-E Circuit Breaker Co. Tripping mechanism for a combined circuit breaker and current limiting fuse. 3,032,629, 5–1–62, Cl. 200—88.

Uehlinger, Roger: *See*—
Ueberwasser, Helmut, and Uehlinger. 3,034,573.

Uemura, Michio, to Tohoku Denki Seitetsu Kabushiki Kaisha. Method of recovering nickel and iron from laterite ores by preferential reduction. 3,033,671, 5–8–62, Cl. 75—21.

Uemura, Saburo, & to Sony Corp. (Sony Kabushikikaisha). Boundary-displacement magnetic recording and reproducing system. 3,066,197, 11–27–62, Cl. 179—100.2.

Ueno, Isaburo, to Anritsu Electronic Works Ltd. Electric signal recording method. 3,015,534, 1–2–62, Cl. 346—101.

Ueno, Kisaburo: *See*—
Mihara, Hajime, Miwa, Ueno, and Morita. 3,060,211.

Ueno, Masajiro: *See*—
Saikachi, Haruo. 3,031,447.

Ueno, Tadashi, to Nippon Kogaku K.K. Fine adjustment mechanism for microscopes. 3,019,706, 2–6–62, Cl. 88—39.

Ueyama, Satoshi: *See*—
Kaneda, Hideo, Wakaki, Tomioka, Ueyama, Uzu, Marumo, and Fujimoto. 3,044,935.

Ufert, Otto W.: *See*—
Axer, Heinrich, Hölken, and Ufert. 3,032,142.

Uffman, Leroy E., to Western Electric Co., Inc. Uni-directional clutch. 3,017,976, 1–23–62, Cl. 192—46.

Ugi, Ivar, and R. Meyr, to Astra, Apotekarnes Kemiska Fabriker, Aktiebolaget. Process for preparing certain tetrazoles. 3,065,241, 11–20–62, Cl. 260—308.

Ugolini, Giorgio, and U. Viale; said Ugolini assor. to said Viale. Garage. 3,016,154, 1–9–62, Cl. 214—16.1.

Uher, Edmond. Hydraulic control system. 3,069,856, 12–25–62, Cl. 60—52.

Uhl, Allen E.: *See*—
Raczynski, Walter A., Thomas, and Uhl. 3,049,994.

Uhl, Henrietta. Support for bedclothes. 3,050,747, 8–28–62, Cl. 5—319.

Uhl, Siegfried, to Keller & Knappich G.m.b.H. Longitudinal alignment of cartridges in a cartridge belt before entering the breech of a gun. 3,017,808, 1–23–62, Cl. 89—33.

Uhleen, Arthur E., to National Steel Corp. Method of coating sheet material. 3 032,459, 5–1–62, Cl. 156—278.

Uhleen, Arthur E., to National Steel Corp. Coating of sheet material. 3,053,725, 9–11–62, Cl. 154—129.

Uhlenbroek, Jan. H.: *See*—
Bijloo, Johan D., Uhlenbroek, and Daams. 3,050,442.

Uhlenbroek, Jan H., to North American Philips Co., Inc. Polyaryl sulphide. 3,053,901, 9–11–62, Cl. 260—609.

Uhlenbroek, Jan H., and B. G. van den Bos, to North American Philips Co. Inc. Process for the preparation of phosphor-containing heterocyclic compounds. 3,051,615, 8–28–62, Cl. 167—33.

Uhlenbroek, Jan H., and J. Meltzer, to North American Philips Co., Inc. Acaricidal poly-halo diphenylsulfide. 3,054,719, 9–18–62, Cl. 167—30.

Uhler, Wilmer P.: *See*—
Angell, Robert C., and Uhler. 3,059,970.

Uhlig, Albert F., to Owens-Illinois Glass Co. Gauging apparatus. 3,032,192, 5–1–62, Cl. 209—88.

Uhlig, Edward R.: *See*—
Camilli, Guglielmo, and Uhlig. 3,028,569.

Uhlig, Fritz: *See*—
Neugebauer, Wilhelm, Heiss, Uhlig, and Rebenstock. 3,028,804.

Uhlig, Fritz, F. Endermann, and W. Neugebauer, to Azoplate Corp. Photographic process for making printing plates and light sensitive naphthoquinone therefor. 3,061,430, 10–30–62, Cl. 96—33.

Uhlig, Henry: *See*—
Gayring, Wallace F., and Uhlig. 3,057,133.

Uhlir, Arthur, Jr., to Microwave Associates, Inc. Hermetically sealed semiconductor. 3,034,079, 5–8–62, Cl. 333—98.

Uhlmann, Erich, to Allmanna Svenska Elektriska Aktiebolaget. Protective arrangement for high voltage direct current power transmission. 3,036,257, 5–22–62, Cl. 321—2.

Uhrig, Edward O., and E. R. Fox, to United States of America, Navy. Exciter detector and localizer. 3,068,460, 12–11–62, Cl. 340—253.

Uhrig, Wilhelm, to Patentgesellschaft Plate & Co. Apparatus for making slide fastener chain. 3,039,408, 6–19–62, Cl. 112—2.

Ulenewidt, Herbert R., to The Cincinnati Milling Machine Co. Tapping spindle reversing means selectively actuated automatically or manually by quill actuating member. 3,021,539, 2–20–62, Cl. 10—136.

Uihlein, Erwin C., and I. A. Jorgensen, to Jos. Schlitz Brewing Co. Advertising display. 3,039,615, 6–19–62, Cl. 211—1.6.

Ukitsu, Ken-Ichi: *See*—
Amada, Sanae Matsumoto, and Ukitsu. 3,045,590.

Ulam, John B., to Allegheny Ludlum Steel Corp. Composite metal article. 3,050,834, 8–28–62, Cl. 29—196.3.

Ulam, Juliusz: *See*—
Herbert, Danuta, and Ulam. 3,043,896.

Ulbing, Otmar M. Pump and metering apparatus. 3,057,-300, 10–9–62, Cl. 103—2.

Ulery, Wilfred N.: *See*—
Walters, Edgar H., and Ulery. 3,025,635.

Ulicni, George. Flush control device for toilet flush tank. 3,019,448, 2–6–62, Cl. 4—41.

Ulicni, George. Flush control device for toilet flush tank. 3,063,059, 11–13–62, Cl. 4—41.

Ulinski, Bronislaus I., to The Yale & Towne Mfg. Co. Caster construction. 3,015,828, 1–9–62, Cl. 16—21.

Ulinski, Bronislaus I., to The Yale and Towne Mfg. Co. Steering mechanism for industrial truck. 3,021,150, 2–13–62, Cl. 280—87.

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Ulinski, Bronislaus I., to The Yale & Towne Mfg. Co. Drive steering for industrial truck. 3,040,827, 6–26–62, Cl. 180—6.5.

Ulinski, Bronislaus I., to The Yale and Towne Mfg. Co. Controller for industrial truck. 3,040,828, 6–26–62, Cl. 180—6.5.

Ulinski, Bronislaus I., to The Yale and Towne Mfg. Co. Lift truck. 3,047,172, 7–31–62, Cl. 214—140.

Ulinski, Bronislaus I., to The Yale and Towne Mfg. Co. Geometric steering for industrial truck. 3,068,019, 12–11–62, Cl. 280—103.

Ulinski, Bronislaus I., to The Yale & Towne Mfg. Co. Adjustable pivot for axle. 3,068,021, 12–11–62, Cl. 280—111.

Ulman, Frederick E.: *See*—
Wiggins, Richard F., Maltas and Ulman. 3,017,010.

Ulman, Robert: *See*—
Schwalm, Glendon H., and Ulman. 3,019,679.
Schwalm, Glendon H., Ulman, and Wagner. 3,062,390.

Ulman, Robert, H. F. Fortna, J. M. Middleton, G. H. Schwalm, and R. L. Tritt, to AMP Inc. Component handling and tipping machine. 3,023,415, 3–6–62, Cl. 1—177.

Ulman, Robert, H. F. Fortna, J. M. Middleton, G. H. Schwalm, and R. L. Tritt, to AMP Inc. Feeding and stacking machine. 3,066,826, 12–4–62, Cl. 221—175.

Ulmann, Werner, and G. Waninger, to AGIE, A.G. fur Industrielle Elektronik. Electro-erosive process for producing recesses in metallic work. 3,041,442, 6–26–62, Cl. 219—69.

Ulrich, Alois: *See*—
Zimmermann, Theo. and Ulrich. 3,036,854.

Ulrich, Fred J., and K. T. Buttery, to Old Dominion Box Co., Inc. Dispensing carton or container. 3,026,013, 3–20–62, Cl. 229—17.

Ulrich, Robert H., Jr. ½ to J. G. McElwee. Back pack. 3,035,747, 5–22–62, Cl. 224—5.

Ulyot, Glenn E., to Smith Kline & French Laboratories. New perfluoroalkylphenothiazine derivatives. 3,058,979, 10–16–62, Cl. 260—243.

Umac Equipment Co.: *See*—
McDonald, Raymore D. 3,049,817.

Uman, Charles. Magnetic recorder. 3,050,225, 8–21–62, Cl. 226—51.

Uman, Wayne H., to The Monarch Machine Tool Co. Electrical control system. 3,024,610, 3–13–62, Cl. 60—97.

Uman, Wayne H., and N. V. Gusching, to The Monarch Machine Tool Co. Electrical control system. 3,017,863, 1–23–62, Cl. 121—41.

Umer, Georges, to Centre Technique des Industries de La Fonderie. Blast air preheating system for cupola furnaces and the like. 3,061,296, 10–30–62, Cl. 266—14.

Ulmer Presswerk Franz Zwick KG. : *See*—
Walz, Erwin. 3,066,938.
Ulmer, Sieghard : *See*—
Merz, Gerhard, and Ulmer. 3,066,281.
Ulmer, Wolfgang, to O. H. Drager. Secretion suction device for rescue apparatus. 3,050,062, 8–21–62, Cl. 128—276.
Ulmitz, Wilhelm, to A. and H. Reifenhauser. Process for continuously withdrawing or transporting, shaped elements, tubes or the like. 3,022,928, 2–27–62, Cl. 226—172.
Ulrich, Aaron J., J. W. Butler, and A. J. Hatch, to United States of America, Atomic Energy Commission. Radio-frequency plasma containing device. 3,022,236, 2–20–62, Cl. 204—154.2.
Ulrich, Friedrich, to International Standard Electric Corp. Electronic switching unit for the construction of information storage devices, counters and the like. 3,056,045, 9–25–62, Cl. 307—88.5.
Ulrich, Gustav : *See*—
Ferris, John T., Sheldon, Talbot, and Ulrich. 3,057,-915.
Ulrich, Henri : *See*—
Kober, Ehrenfried H., Ratz, and Ulrich. 3,041,346.
Ulrich, Lester J., to Eastman Machine Co. Sizing attachment for cloth cutting machines. 3,036,548, 5–29–62, Cl. 118—38.
Ulrich Mfg. Co. : *See*—
MacDonald, Raymore D. 3,015,261.
Ulrich, Martin T. Link chain. 3,033,284, 5–8–62, Cl. 160—235.
Ulrich Steinemann AG, Ltd. : *See*—
Glaus, Bernhard. 3,067,060.
Ulrich, Werner : *See*—
Nowak, John S., and Ulrich. 3,060,273.
Ulrich, Werner, to Bell Telephone Laboratories, Inc. Digital error correcting systems. 3,017,091, 1–16–62, Cl. 235—153.
Ulrich, William D., to Futuronic Development Co. Brush cleaner. 3,015,121, 1–2–62, Cl. 15—311.
Ulster-Dutchess Machine & Tool Co., Inc. : *See*—
Stewart, Alfred W. 3,057,215.
Ultek Corp. : *See*—
Hall, Lewis D. 3,070,283.
Ultra Electronics Ltd. : *See*—
Chipperfield, Victor J. 3,061,249.
Ultradyne, Inc. ("Ultradyne") : *See*—
Jones, Ray L. 3,060,404.
Ultranetic Associates, Inc : *See*—
Chertoff, Allen B., and Shivack. 3,039,021.
Ultronic Systems Corp. : *See*—
Hernan, George W. 3,056,119.
Ulvsunda Verkstader Aktiebolag : *See*—
Gluchowicz, Gerszon. 3,057,186.
Umanoff, Martin, to R. A. MacPlum Industries, Inc. Removable under-carriage shelf for shopping carts. 3,019,953, 2–6–62, Cl. 224—42.43.
Umanoff, Martin, to R. A. MacPlum Industries, Inc. Nut-shell removing device. 3,048,208, 8–7–62, Cl. 146—13.
Umanoff, Martin, to R. A. MacPlum Industries, Inc. Three-wheeled shopping cart. 3,048,420, 8–7–62, Cl. 280—62.
Umbach, Louis A. : *See*—
Ogier, Baxter B., and Umbach. 3,021,422.
Umbach, Louis A., to The Photogenic Machine Co. Shutter synchronized triggering apparatus for high speed photographic light units. 3,039,375, 6–19–62, Cl. 95—11.5.
Umbach, Roy D., to Phillips Petroleum Co. Treatment of sour hydrocarbons. 3,069,353, 12–18–62, Cl. 208—204.
Umberger, Jacob Q. : *See*—
Meerkamper, Beat, and Umberger. 3,058,826.
Umberger, Jacob Q., and C. F. Wahlig, to E. I. du Pont de Nemours and Co. Treatment of zinc sulfide phosphors. 3,062,750, 11–6–62, Cl. 252—301.6.
Umbricht, Emil : *See*—
Stoll, Paul A., and Umbricht. 3,055,313.
Umbricht, Emil, and D. Evans, to Ajem Laboratories. Transfer apparatus. 3,030,896, 4–24–62, Cl. 104—162.
Umbricht, Emil, and D. Evans, to Ajem Laboratories. Mandrel apparatus for power washing machines. 3,030,971, 4–24–62, Cl. 134—102.
Umbricht, Emil, and D. Evans, to Ajem Laboratories. Adjustable spray nozzle assembly. 3,059,861, 10–23–62, Cl. 239—518.
Umeda, Joe : *See*—
Young, Leparis D., and Umeda. 3,026,069.
Umezawa, Sumio. Process for producing 5-methylenecyclopentanone-3-carboxylic acid. 3,037,053, 5–29–62, Cl. 260—514.
Umhofer, Ernst : *See*—
Flick, Willy, Holweg, and Umhofer. 3,066,873.
Umholtz, Franklyn G. Portable liquid pump. 3,015,281, 1–2–62, Cl. 103—118.
Umphres, Thomas J. : *See*—
McCoy, James R., and Umphres. 3,043,046.
Umstead, Donald E. : *See*—
Allen, Robert Y., Shaw, and Umstead. 3,021,639.
Umstead, Marvin F. Simulated bird lawn mobile. 3,039,219, 6–19–62, Cl. 41—10.
Underhill, Denton W. Circuit board holder. 3,043,587, 7–10–62, Cl. 269—71.
Underhill, Walter T. : *See*—
Heightman, Anthony N., and Underhill. 3,034,037.
Underwood Corp. : *See*—
Anderson, Walter A. 3,018,044.
Anderson, Walter A. 3,042,300.
Underwood, Cyril J., to Dowty Seals Ltd. Sealing rings. 3,062,557, 11–6–62, Cl 277—212.
Underwood, David C. Nursing bottle holder. 3,016,221, 1–9–62, Cl. 248—102.
Underwood, David T., Jr. : *See*—
McKinley, Algene H., and Underwood. 3,066,016.
Underwood, Frank E., and E. H. Perry. Linking machines. 3,023,720, 3–6–62, Cl. 112—25.
Underwood, Francis O., to International Business Machines Corp. Data comparing and sorting apparatus. 3,034,103, 5–8–62, Cl. 340—172.5.
Underwood, George W. : *See*—
Montoya, Hernando J., and Underwood. 3,043,344.
Underwood, Gerald E., to The Upjohn Co. Live poliomyelitis virus composition and process. 3,048,523, 8–7–62, Cl. 167—78.
Underwood, Jack D. : *See*—
Allman, William T., Jr., Higgins, and Underwood. 3,068,-873.
Underwood, Lawrence E. Antenna support structure. 3,045,-952, 7–24–62, Cl. 244—33.
Underwood McLellan and Associates Ltd. : *See*—
Beaumont, Gerald M. 3,056,742.
Underwood, Ralph M. : *See*—
Johnson, Melvin S. 3,066,597.
Underwood, William F. : *See*—
Sacks, William, and Underwood. 3,048,263.
Underwood, William F., and S. Venkataramaraj, to Union Carbide Corp. Method of bonding a synthetic resin coating to a polyolefin surface and article produced thereby. 3,023,126, 2–27–62, Cl. 117—76.
Ungar, Marvin J. : *See*—
Klein, Gerald L., and Ungar. 3,046,477.
Ungashick, William F., to Schick Engineering Co. Materials conveying system. 3,053,577, 9–11–62, Cl. 302—49.
Unger, Arnold, and R. L. James, to The Bendix Corp. Infinite memory and non-destructive readout integrating circuit. 3,038,146, 6–5–62, Cl. 340—174.
Unger, Arnold, and A. C. Diani, to The Bendix Corp. Visual omnisectional range station monitor. 3,055,617, 9–25–62, Cl. 244—77.
Unger, Donald C. : *See*—
Ransom, George P., Steinhagen, and Unger. 3,057,545.
Unger, Donald C., to General Motors Corp. Refrigerating apparatus. 3,016,511, 1–9–62, Cl. 339—126.
Unger, Frank D., to Joseph E. Seagram & Sons, Inc. Non-refillable pouring device for bottles. 3,018,910, 1–30–62, Cl. 215—22.
Unger, Hans-Georg : *See*—
Frlis, Harald T., and Unger. 3,018,452.
Unger, Hans-Georg, to Bell Telephone Laboratories, Inc. Spurious mode suppressing wave guide. 3,016,502, 1–9–62, Cl. 333—95.
Unger, John A., Jr. Hair curler rod. 3,056,413, 10–2–62, Cl. 132—42.
Unger, Leo. Method of stuffing and sealing stuffed toys. 3,038,283, 6–12–62, Cl. 53—29.
Unglesby, Lewis H. Chance device. 3,063,720, 11–13–62, Cl. 273—138.
Unilectron, Inc. : *See*—
Hull, Joseph A. 3,041,936.
Unilever Ltd. : *See*—
Cannell, John E. 3,028,893.
Higham, Edward H. 3,046,338.
von Mikusch-Buchberg, Johannes D. 3,030,416.
Unilever N.V. : *See*—
Ditmar, Willem P. A. 3,054,150.
Uni-Bus, Inc. : *See*—
Kuhar, William A., and Carlson. 3,052,768.
Kuhar, William A., and Seiple. 3,052,769.
Union Asbestos & Rubber Co. : *See*—
Loomis, Russell M., Kuellmar, and Lundvall. 3,017,843.
Loomis, Russell M., Kuellmar, and Lundvall. 3,018,741.
Union Bag-Camp Paper Corp. : *See*—
Kitchell, Thorne C. 3,036,802.
Wheeler, Donald B., and Kennedy. 3,044,679.
Union Carbide Canada Ltd. : *See*—
Knowles, Howard. 3,035,631.
Turbitt, Ronald F. 3,025,388.
Union Carbide Corp. : *See*—
Acomb, Byron H., Pennstrom, and Carkhuff. 3,029,840.
Aitchison, Robert B. 3,064,572.
Allan, Stewart. 3,016,947.
Allen, Ivey, Jr., Gaiy, and Stenstrom. 3,062,777.
Allen, John P. C., Lobosco, and Heeney. 3,054,886.
Alter, Harvey. 3,061,558.
Ammondson, Clayton J. 3,021,296.
Anderson, John E. 3,051,639.
Anderson, Kenneth H., and Kelso. 3,037,040.
Anderson, Kenneth H., and Kelso. 3,068,195.
Apel, Francis N., Conte, and Bender. 3,049,568.
Apel, Francis N., Farevaag, and Bender. 3,049,569.
Arnault, Joseph A. 3,037,760.
Bailey, Donald L., and Pike. 3,020,302.
Bailey, Frederick E., Jr. 3,030 3!5.
Bailey, Frederick E., Jr. 3,030,316.
Bailey, Frederick E., Jr. 3,031,439.
Bailey, Frederick E., Jr., and France. 3,029,216.
Bailey, Frederick E., Jr., and France. 3,063,948.
Bailey, Frederick E., Jr., and Hill. 3,041,291.
Bailey, Frederick E., Jr., and Toussaint. 3,058,959.
Baker, Charles R., and Paul. 3,021,682.

Union Carbide Corp.: *See*—Continued
Baker, Dwight L., and Stollberg. 3,039,876.
Baker, Francis E. 3,061,170.
Baker, Francis E., and Gasser. 3,067,428.
Baker, James M. 3,025,956.
Barclay, Robert, Jr. 3,069,386.
Barclay, Robert, Jr., and Kurkjy. 3,054,819.
Barnes, Robert K., McLaughlin, and Hostettler. 3,022,256.
Barnes, Robert K., McLaughlin, and Hostettler. 3,039,976.
Barth, Bruce P. 3,046,103.
Baum, Bernard O. 3,041,311.
Baum, Bernard O. 3,065,197.
Barrer, Richard M., and Baynham. 3,056,654.
Barrer, Richard M., and Sammon. 3,059,993.
Barrett, Burkett R., III, and Wagoner. 3,067,026.
Biggins, Edward R., and Dall. 3,066,495.
Black, William T. 3,068,152.
Bowen, John T. 3,021,124.
Brantley, John C. 3,028,406.
Breining, Elmer R., and Whitacre. 3,023,491.
Breining, Elmer R., and Whitacre. 3,049,799.
Brennan, Joseph H. 3,024,104.
Brennan, Joseph H., and Scott. 3,056,658.
Brissette, Richard S. 3,063,883.
Brown, Charles M., and Folkman. 3,024,102.
Bukata, Stanley W., Pickert, and Freeman. 3,033,642.
Bush, Harry D, and Shepard. 3,060,251.
Carey, Robert J., and Walter. 3,019,077.
Carmichael, Robert, and Daley. 3,042,734.
Carmichael, Robert, Spanur, and Klun. 3,069,489.
Cessna, John C., and Mallonee. 3,046,229.
Chappell, Charles H. 3,061,656.
Chinn, Hyman G. 3,012,212.
Chinn, Hyman G. 3,067,079.
Chinn, Hyman G. 3,067,309.
Chinn, Ryman G., and Shappell. 3,052,565.
Chow, Sui-Wu, and Whelan. 3,037,966.
Claussen, Gerard E. 3,023,301.
Colclough, William G., Jr. 3,018,264.
Colclough, William G., Jr. 3,063,965.
Colwell, Charles E., and Miller. 3,020,231.
Conant, Louis A. 3,037,857.
Cox, Eugene F., and Hostettler. 3,021,309–17.
Cox, Eugene F., Manning, and Stansbury. 3,069,468.
Craig, Thomas A. 3,051,823.
Culbertson, James B., Lamprey, and Ripley. 3,062,638.
Culbertson, James B., and Mattingly. 3,057,679.
Cupper, Robert A. 3,053,768.
Dailey, John L. S., and Leger. 3,068,312.
Dale, Johannes. 3,053,880.
Daley, John L. S. 3,068,313.
Darland, William G., Jr. 3,033,908.
Dereska, Joseph S., Koehler, and Vinal. 3,057,760.
Dickey, Charles R., Mailey, and Matthews. 3,062,854.
Dolloff, Richard T. 3,053,630.
Domizl, Dario, and Cranch. 3,056,057.
Downing, James H., Colton, and Chadwick. 3,048,484.
Drummond, Folsom E. 3,049,797.
Drummond, Folsom E. 3,055,089.
Drumpelmann, Carlton T. 3,052,201.
Douglas, Stuart D. 3,068,210.
Dunham, Milton L., Jr., and O'Connor. 3,036,980.
Dunn, Jesse T. 3,019,256.
Dunn, Jesse T. 3,035,086–90.
Dunn, Jesse T., and Heywood. 3,046,308.
Dunn, Jesse T., and Heywood. 3,048,624.
Dunn, Jesse T., and Haywood. 3,062,824.
Edstrom, Theodore. 3,065,468.
Eichin, Harry P., and Matecki. 3,064,803.
Elbaum, Jerome K., and Wagoner. 3,068,096.
Estes, Nelson N. 3,021,292.
Estes, Nelson N., Kemp, and Moore. 3,056,908.
Evans, George E., Powers, Estes, and Snavely. 3,054,030.
Eversole, William G. 3,030,187.
Eversole, William G. 3,030,188.
Farnham, Alford G. 3,043,325.
Farnham, Alford G., and Stampa. 3,062,803.
Fay, Homer, Mohr, and Cook. 3,032,654.
Feild, Theophilus A., Jr. 3,052,947.
Fekete, Frank. 3,019,248.
Fekete, Frank. 3,067,229.
Ferguson, Joe S. 3,018,882.
Fertig, Raymond B. 3,038,662.
Fife, Harvey R., and Shiffler. 3,062,747.
Fink, Albert O. 3,055,087.
First, Vincent B., Potts, Rice, and Yendall. 3,059,439.
Fischer, Ernst O., and Palm. 3,032 572.
Fitzpatrick, John T., Fowler, and Marcus. 3,069,422.
Fitzpatrick, John T., Fowler, and Marcus. 3,069,428.
Fleming, David H., Jr. 3,045,766.
Forman, Ralph R. 3,040,266.
Foster, Donald J. 3,048,638.
Foster, Donald J., and Tobler. 3,033,886.
Foster, Talmage D., Jr. 3,020,263.
Fowler, George W., Crosby, and Proops. 3,021,330.
Fowler, George W., and Lynn. 3,020,310.
Fox, Russell D. 3,063,827.
France, Haywood G., and Bailey. 3,024,219.
Freeman, Donald C., Jr. 3,040,077.

Union Carbide Corp.: *See*—Continued
Freeman, Donald C., Jr., and Thomas. 3,032,569.
Freeman, Robert W. 3,032,412.
Freure, Benjamin T., and Decker. 3,024,266.
Freure, Benjamin T., and Decker. 3,026,346.
Freure, Benjamin T., and Decker. 3,026,347.
Freure, Benjamin T., and Tinsley. 3,021,356.
Frick, Charles E. 3,016,840.
Frick, Charles E. 3,039,272.
Frick, Charles E. 3,069,514.
Fritz, Henry E. 3,051,723.
Fritz, W. H., Potter, and Reash. 3,062,986.
Froscher, James L., and Abrams. 3,060,039.
Frostick, Frederick C., Jr., and Phillips. 3,018,259.
Frostick, Frederick C., Jr., and Phillips. 3,048,601.
Frostick, Frederick C., Jr., and Phillips. 3,065,209.
Fry, John S. 3,035,020.
Gage, Robert M. 3,050,616.
Gage, Robert M. 3,064,153.
Gage, Robert M., Nestor, and Lenni. 3,016,447.
Gaines, Robert W., and Arbit. 3,058,863.
Garten, Harry G. 3,021,465.
Geib, Ervin R., Cosby, and Kershaw. 3,023,923.
Giles, Jean-Marie F., and Van Cakenberghe. 3,065,112.
Goble, Lloyd H. 3,055,247.
Goldsmith, William F., Lemon, and Montagna. 3,041,371.
Goodman, Henry G., Jr. 3,024,246.
Gorham, William F., and Brandon. 3,026,307.
Gorman, Eugene F. 3,020,389.
Gorman, Eugene F., Meckler, Nelson, and Newman. 3,053,967.
Gorman, Eugene F., and Nelson. 3,053,968.
Gottzmann, Christian F. 3,016,717.
Grotz, Leonard C. 3,055,876.
Guest, Howard R., Adams, and Kiff. 3,023,222.
Guest, Howard R., Adams, and Stansbury. 3,043,850.
Guest, Howard R., and Barnes. 3,037,946.
Guest, Howard R., and Barnes. 3,065,276.
Guest, Howard R., and Kiff. 3,025,306.
Guest, Howard R., Kiff, and Halstead. 3,022,273.
Guill, A. W. 3,029,466.
Gustison, Robert A. 3,056,649.
Hackhel, Robert H., and Sacks. 3,048,265.
Hackhel, Robert H., and Sacks. 3,048,266.
Haettinger, George C., and Poorman. 3,059,114.
Hagler, Duran L., and Kasbohm. 3,022,635.
Hamon, Ray C. 3,032,445.
Hansen, Robert E. 3,069,484.
Hard, Robert A., and Kummerle. 3,069,231.
Harding, Ronald H. 3,057,032.
Harmon, Raymond G. 3,068,686.
Hartung, Homer A., and Archert. 3,037,962.
Haumann, Wilfried. 3,020,234.
Haumann, Wilfried. 3,034,845.
Haumann, Wilfried. 3,069,044.
Haumann, Wilfried, and Berta. 3,052,370.
Haumann, Wilfried, and Briggs. 3,069,045.
Haynes, Harry L. 3,021,258.
Heimaster, John W., and Miller. 3,056,952.
Heintz, Edward A. 3,025,204.
Hersh, Solomon P., and Fowler. 3,055,861.
Hersh, Solomon P., and Meyers. 3,023,129.
Hessenaller, Walter H., and Shappell. 3,034,941.
Higgins, William T. 3,068,532.
Hill, Clifford W. 3,061,709.
Hill, Clifford W., Blanchard, and Fisken. 3,069,532.
Hill, Fred N., Bailey, and Fitzpatrick. 3,062,755.
Hill, Fred N., Fitzpatrick, and Bailey. 3,037,943.
Hinds, Gene W., Skinner, and Smith. 3,020,035.
Hirsh, Donald H., and Hodges. 3,042,728.
Hiser, Robert D. 3,057,932.
Hodges, Charles E. 3,055,955.
Hofer, Peter H. 3,068,516.
Hord, Alsie O., and Royal. 3,023,468.
Horn, Christian F. 3,032,534.
Horn, Christian F. 3,032,625.
Horn, Christian F. 3,036,995.
Horn, Christian F. 3,042,695.
Horn, Christian F. 3,051,756.
Horn, John D., and Rem. 3,029,986.
Hostettler, Fritz, and Cox. 3,061,557.
Huhn, James S. F., and Sheets. 3,061,583.
Huntington, Dexter P., and Homler. 3,027,274.
Isele-Aregger, Alfons. 3,033,407.
Jacobs, James H. 3,034,975.
Jamal, Victor J. 3,024,903.
Jamal, Victor J., and Newhall. 3,021,377.
Janes, Milton, and Taylor. 3,065,088.
Jellinek, Maurice H. 3,048,499.
Jensen, Walter L., Phillips, and Claussen. 3,052,792.
Jex, Victor B., and Bailey. 3,044,982.
Jex, Victor B., and Bailey. 3,045,036.
Jex, Victor B., McMahon, and Whitehead. 3,044,845.
Johnson, Harry V., and Kirkhart. 3,048,434.
Johnson, Herbert E. 3,047,585.
Johnson, Herbert E. 3,062,832.
Juras, Appy. 3,053,713.
Juras, Appy, Mazzucchelli, and Bugel. 3,041,131.
Kasbohm, Martin L. 3,064,441.
Kasbohm, Martin L., Baker, and Houston. 3,023,836.
Kelley, Dewitt T., Babcock, and Holub. 3,033,133.
Kelmers, Andrew D. 3,063,796.

Union Carbide Corp.: *See*—Continued
Kennedy, Harry E., and Claussen. 3,023,302.
Kilsheimer, John R., Phillips, and Starcher. 3,043,813.
King, Edwin V., Jr., and Smith. 3,063,808.
Kluiber, Rudolph W. 3,035,019.
Kluiber, Rudolph W. 3,067,181.
Klun, Godfrey H. 3,034,690.
Kordesch, Karl. 3,042,732.
Korver, Margaret P., and Cahoon. 3,048,647.
Kratzer, James C., Kennedy, and Balfe. 3,054,210.
Kuhlman, August M. 3,024,105.
La Combe, Edward M., and Stewart. 3,030,424.
La Combe, Edward M., and Walter. 3,053,806.
Lanham, William M. 3,021,354.
Lanham, William M. 3,022,330.
Lanham, William M. 3,070,619.
Laird, Stanley M. 3,039,779.
Leach, Edward M. 3,032,425.
Leis, Donald G., and Knopf. 3,028,433.
Lemon, Russell C., and Myerly. 3,022,349.
Leonard, Edward C., Jr. 3,020,269.
Limbach, Anthony P. 3,063,095.
Lineberry, Dewey D. 3,052,643.
Lisanke, Robert J. 3,022,270.
Lisanke, Robert J., and Bailey. 3,046,295.
Litz, Lawrence M. 3,057,474.
Lloyd, John B., and Wolfe. 3,061,876.
Lobosco, Roscoe R., Dean, and Ruland. 3,041,445.
Lobosco, Roscoe R., Royer, and Miller. 3,037,888.
Lobosco, Roscoe R., and Ruland. 3,054,885.
Loeb, William E. 3,033,903.
Loveday, Paul E. 3,030,780.
Lowe, Charles S. 3,046,216.
Lundberg, Robert D., and Bailey. 3,035,036.
Luzader, Gilbert B. 3,040,101.
Luzader, Gilbert B. 3,040,102.
Lye, Robert G. 3,054,921.
Lyle, James W. 3,041,672.
Lynn, John W. 3,036,112.
Lynn, John W. 3,043,819.
Lynn, John W. 3,063,978.
Lynn, John W., and Roberts. 3,028,416.
Lynn, John W., and Roberts. 3,036,093.
Lynn, John W., and Roberts. 3,048,628.
Lynn, John W., and Roberts. 3,062,871.
Lynn, John W., and Roberts. 3,069,457.
Lynn, John W., Roberts, and Tinsley. 3,057,880.
Lynn, John W., and Walter. 3,053,870.
Lynn, John W., and Walter. 3,067,167.
Maddock, Bruce H. 3,032,822.
Mansfield, Richard L. 3,048,382.
Manz, August F. 3,051,828.
Manz, August F. 3,051,829.
Manz, August F., Hopkins, and Peterson. 3,054,884.
Marcus, Erich. 3,035,102.
Marcus, Erich, and Fitzpatrick. 3,030,385.
Marcus, Erich, and Fitzpatrick. 3,037,994.
Marcus, Erich, and Fitzpatrick. 3,056,803.
Marcus, Erich, and Fitzpatrick. 3,056,804.
Marcus, Erich, and Fitzpatrick. 3,068,255.
Marsal, Paul A. 3,046,326.
Marshall, Walter R. 3,063,091.
Martin, Sterling T., and Spracklen. 3,051,392.
Matheny, Wade M., Jr., and Heilman. 3,034,588.
Matsch, Ladislas C. 3,039,274.
Matsch, Ladislas C., Yendall, Lauer, and Koehn. 3,066,493.
Matthews, Virgil E. 3,026,352.
Mays, Rolland L., Rhodes, and Leavitt. 3,069,362.
Mays, Rolland L., Rhodes, and Leavitt. 3,069,363.
McDaniel, Billy B., and Kracht. 3,058,122.
Meyers, Cal Y. 3,023,251.
Milio, James V., and Weland. 3,028,952.
Miller, Walter A., and Calvert. 3,053,079.
Mills, Edward J., Jr., and Tapp. 3,030,425.
Milton, Charles B., and Valley. 3,035,947.
Milton, Robert M. 3,024,867.
Milton, Robert M. 3,024,868.
Milton, Robert M. 3,030,181.
Milton, Robert M., and Jones. 3,023,841.
Mitchell, Charles V. 3,035,979.
Mitchell, Charles Y. 3,057,687.
Montagna, Amelio E., Brezinski, and Kubler. 3,032,558.
Montagna, Amelio E., and Hess. 3,055,954.
Montagna, Amelio E., and Hirsh. 3,023,250.
Montagna, Amelio E., and Hirsh. 3,021,373.
Moore, Leonard O., and Clark. 3,055,913.
Morehouse, Edward L. 3,032,576.
Morehouse, Edward L. 3,032,577.
Morehouse, Edward L. 3,068,153.
Myerly, Richard C., and Creagh. 3,069,331.
Nack, Herman R., Bulloff, and Whitacre. 3,050,417.
Navikas, Charles R. 3,019,573.
Nelson, Edward C., and Griffing. 3,046,107.
Nicolson, Richard E., and Spence. 3,068,206.
Norwalk, Stanley. 3,020,250.
O'Connor, Francis M. 3,036,983.
O'Connor, Francis M., and Thomas. 3,036,984.
O'Connor, Francis M., and Thomas. 3,036,986.
Oliver, John P. 3,023,393.
Oliver, John P. 3,037,929.
Omietanski, George M. 3,053,872.
Union Carbide Corp.: *See*—Continued
Overholt, Donald C., and Roy. 3,031,463.
Patrick, Charles T., Jr., and McGary. 3,019,203.
Pepe, Enrico J., and Kanner. 3,053,874.
Pepe, Enrico J., and Kanner. 3,054,817.
Pepe, Enrico J., and Kanner. 3,054,818.
Persson, John A. 3,064,178.
Peterson, Earl A., Tarika, and Rossen. 3,041,736.
Phillips, Benjamin, and Frostick. 3,056,802.
Phillips, Benjamin, and Starcher. 3,018,294.
Phillips, Benjamin, and Starcher. 3,041,357.
Phillips, Benjamin, and Starcher. 3,043,860.
Phillips, Benjamin, and Starcher. 3,052,692.
Phillips, Benjamin, and Starcher. 3,056,806.
Phillips, Benjamin, and Starcher. 3,063,949.
Phillips, Benjamin, and Starcher. 3,064,008.
Pierce, Leonard, Jr., and Miller. 3,027,394.
Pierce, Russell F., and Ferguson. 3,052,283.
Pike, Ronald M. 3,017,286.
Pike, Ronald M. 3,046,293.
Pike, Ronald M., and Morehouse. 3,033,815.
Pike, Roscoe A. 3,018,300.
Pike, Roscoe A. 3,020,301.
Pike, Roscoe A. 3,026,282.
Pike, Roscoe A. 3,046,293.
Pike, Roscoe A. 3,046,292.
Pike, Roscoe A. 3,046,294.
Pike, Roscoe A. 3,054,769.
Pike, Roscoe A. 3,057,902.
Pike, Roscoe A. 3,063,194.
Pilia, Frank J. 3,047,715.
Pilia, Frank J., and O'Brien. 3,065,330.
Pilloton, Roger L. 3,058,801.
Pilloton, Roger L. 3,067,008.
Pilloton, Roger L., and Crawley. 3,062,613.
Plach, Alvin H., and Ericson. 3,053,723.
Poorman, Richard M., Haettinger, and O'Connell. 3,066,222.
Poppelsdorf, Fedor. 3,040,028.
Poppelsdorf, Fedor, and Myerly. 3,040,029.
Potts, Lawrence D. 3,066,004.
Prell, Edward G., Jr. 3,057,949.
Prosser, Rae A. 3,019,739.
Prosser, Rae A. 3,066,920.
Prosser, Rae A. 3,068,017.
Pruett, Roy L., and Morehouse. 3,063,974.
Pruett, Roy L., and Rink. 3,035,072.
Pruett, Roy L., Rink, and Parts. 3,068,258.
Pruett, Roy L., and Wyman. 3,053,629.
Raub, Samuel H. S., Alton, Joachim, and Palmquist. 3,044,489.
Rauskie, Woldemar C., and Parkey. 3,056,850.
Reed, Thomas B. 3,030,490.
Reimlinger, Hans K. 3,038,929.
Reinking, Norman H. 3,023,225.
Reis, Norman. 3,043,945.
Riley, David W. 3,036,035.
Roberts, John S., and Walter. 3,048,467.
Roberts, Richard L., and Lynn. 3,043,872.
Rogers, Louis J. 3,068,685.
Rogers, Louis J., and Weiss. 3,026,502.
Rose, Julian K., and Schulz. 3,025,323.
Rosenthal, Louis A. 3,065,142.
Ross, John W., Holmes, and Wilson. 3,032,053.
Ross, Joseph H., Jr., Molnar, and Riley. 3,032,540.
Rubin, Gottfried A. 3,067,146.
Rudness, Robert G. 3,048,060.
Rugg, Frank M., and Potts. 3,027,346.
Ruland, Edward J., Jr., Allen, and Lobosco. 3,021,420.
Rusynyk, Samuel. 3,025,422.
Rusynyk, Samuel. 3,064,151.
Sacks, William, and Underwood. 3,048,263.
Samples, Randall H., and Hilbert. 3,054,831.
Sarla, Ralph M. 3,030,285.
Sarla, Ralph M. 3,034,870.
Sauers, Carol K., and Cotter. 3,018,290.
Sauers, Carol K., and Cotter. 3,018,292.
Sauers, Carol K., and Cotter. 3,023,240.
Sauers, Carol K., and Cotter. 3,035,065.
Sauers, Carol K., and Cotter. 3,041,376.
Saurwein, Albert G. 3,022,365.
Schaefer, Peter R., and Kane. 3,030,489.
Schenk, Raymond L., Jr. 3,061,660.
Schenk, Raymond L., Jr. 3,067,505.
Schroeder, Juel P., and Leonard. 3,069,372.
Schultheiss, Ralph D. 3,019,483.
Schultheiss, Ralph D. 3,029,174.
Seeley, Gerald A. 3,061,661.
Sellers, Ralph F. 3,068,199.
Senior, George A., Jr. 3,023,252.
Seubert, William A. 3,068,137.
Seubert, William A., and Pusey. 3,059,656.
Shrubsall, Arthur E., Claussen, Schreiner, and Jackson. 3,031,345.
Shrubsall, Arthur E., and Rimer. 3,068,128.
Simon, Selwyn, Toepper, and Kasting. 3,039,382.
Skinner, George M., and Gage. 3,024,350.
Skinner, Ransom P. 3,064,451.
Smiley, William D. 3,019,128.
Smith, Alan W. 3,053,093.
Smith, George E., and Shellek. 3,065,288.
Smith, George S. 3,063,795.

Union Carbide Corp. : *See*—Continued
Smith, Keith L. 3,020,230.
Smith, Keith L. 3,063,960.
Smith, Paul L., and Bayes. 3,044,887.
Smitmans, Gretchen, and Vollmer. 3,024,216.
Sookne, Arnold M., Galligan, Guest, and Adams. 3,024,-135.
Sookne, Arnold M., Guest, and Adams. 3,026,216.
Sousa, Anthony A. 3,069,253.
Spence, Sydney P., Grover, Klosek, and Nicolson. 3,069,-434.
Spendelow, Howard R., Jr., Folkman, and Allenbach. 3,054,166.
Spracklen, Stanford B., Campbell, and Fellows. 3,041,-869.
Stackhouse, Robert D. 3,016,311.
Staff, Charles E. 3,063,899.
Stanek, Mark J. 3,062,797.
Stansbury, Harry A., Jr., and Guest. 3,023,243.
Stansbury, Harry A., Jr., and Guest. 3,048,622.
Stansbury, Harry A., Jr., and Manning. 3,068,287.
Stark, Louis E. 3,047,708.
Starnes, Jesse B., Loveday, and Carney. 3,037,360.
Stern, Milton. 3,063,835.
Stickle, Ralph, Jr. 3,027,357.
Straughan, John R., Stickle, and Hill. 3,057,812.
Sullivan, Wilbur M., and Carlson. 3,047,523.
Tarbox, Albert E., and Leedy. 3,021,270.
Theiling, Louis F., Jr., and Lacount. 3,028,439.
Thomas, Tudor L. 3,037,338.
Thomas, Tudor L., Jr. 3,033,641.
Thompson, Bruce R., Hill, and Smith. 3,020,229.
Thompson, Ivan P., and Mousted. 3,062,456.
Tinsley, Samuel W., and Fitzpatrick. 3,037,057.
Tinsley, Samuel W., Starcher, McGary, and Patrick. 3,019,202.
Tinsley, Samuel W., Starcher, McGary, and Patrick. 3,035,001.
Toda, Dean L., Deierhoi, and Granger. 3,042,733.
Toepper, Marvin W., and Kasting. 3,039,136.
Toogood, John B. 3,018,270.
Torgeson, Dewayne C., Marcus, and Lambrech. 3,055,801.
Toulmin, Harry A., Jr. 3,030,225.
Toulmin, Harry A., Jr. 3,046,170.
Toy, Gerald R., and Krasnow. 3,028,355.
Underwood, William F., and Venkataramaraj. 3,023,-126.
Urry, Lewis F. 3,024,297.
Urry, Lewis F. 3,033,909.
Urry, Lewis F. 3,060,254.
Urry, Lewis F., and Holland. 3,053,701.
Van Cakenberghe, Jean L., and Gilles. 3,039,896.
Van Cleve, Russell, and Mullins. 3,062,778.
Venables, John D. 3,054,731.
Viehe, Heinz G. 3,053,911.
Villoresi, John. 3,053,812.
Vinal, Albert F. 3,025,334.
Vollmer, Walter K. 3,022,194.
Walther, Richard A. 3,055,875.
Walton, Richard K., Sellers, and Colclough. 3,026,278.
Weisert, Edward D., and Wlodek. 3,037,858.
Welch, Frank J. 3,029,221.
Welch, Frank J. 3,048,572.
Welch, Frank J. 3,069,389.
Wilson, Thomas P., Hurley, and Manyik. 3,053,916.
Wilton, Peter, and Marrow. 3,051,509.
Winger, Jerrold, Smith, and Richter. 3,069,485.
Winslow, Alfred E. 3,067,089.
Winter, Lester L., and Edstrom. 3,046,240.
Wlodek, Stanley T., Weisert, and Moanfeldt. 3,028,236.
Wyman, John E. 3,060,213.
Wyman, John E. 3,067,011.
Yendall, Edward F. 3,063,247.
Yendall, Edward F., Roberts, La Plante, and Kahl. 3,057,167.
Young, Donald M., and Horn. 3,044,995.
Young, Donald M., Horn, and Hostettler. 3,035,024.
Young, Donald M., and Hostettler. 3,051,687.
Zufty, Nathan L. 3 051,689.
Union Commerce Bank : *See*—
Pyzel, Robert. 3,022,989.
Union des Verreries Mecaniques Belges, Societe Anonyme : *See*—
Brichard, Edgard, and Marchand. 3,027,646.
Union Insulating Co., Inc. : *See*—
Palmer, Lewis E. 3,040,926.
Union Lumber Co. : *See*—
Poletika, Nicholas V., and Black. 3,042,977.
Union Machine Co. : *See*—
O'Neill, Paul J., Jr. 3,064,864.
Union Mfg. Co. : *See*—
Skillin, Walter F. 3,028,169.
Union Metal Mfg. Co., The : *See*—
Anderson, W. Carl, and Lozier. 3,062,308.
Union Oil Co. of California, The : *See*—
Baker, William J. 3,048,412.
Bauer, Robert F., and Stratton. 3,043,255.
Buckmann, John P., Liggett, and Wiseman. 3,031,278.
Byrne, Joseph, McDowell, and Lammerman. 3,027,244.
Christian, Curtis G. 3,047,620.
Deering, Roland F., and Irish. 3,058,904.
Doumani, Thomas F. 3,038,843.
Union Oil Co. of California, The : *See*—Continued
Doumani, Thomas F. 3,053,902.
Duckmann, John P. 3,034,875.
Fischer, Paul W. 3,017,349.
Fischer, Paul W. 3,017,350.
Fleck, Raymond N., and Wight. 3,029,242.
Fleck, Raymond N., and Wight. 3,064,002.
Fleck, Raymond N., and Wight. 3,067,271.
Fleck, Raymond N., and Wight. 3,069,470.
Fleck, Raymond N., and Wight. 3,069,482.
Gregory, James B., Moore, and Emerson. 3,048,157.
Hansford, Rowland C., and Young. 3,053,754.
Hansford, Rowland C., and Young. 3,053,755.
Hanson, Ross A. 3,052,620.
Huffman, Joseph G., and Moore. 3,057,192.
Keller, James L. 3,035,905.
Keller, James L., Liggett, and Wilson. 3,020,134.
McEwen, Cassius R. 3,070,696.
McKinnis, Art C. 3,043,890.
McKinnis, Art C., and Schaeffer. 3,027,400.
McKinnis, Art C., and Wasley. 3,017,433.
Meiners, Henry C. 3,063,933.
Meiners, Henry C. 3,069,349.
Nahin, Paul G. 3,058,896.
Reeg, Cloyd P., and Price. 3,027,317.
Rhodes, Aaron D., and Stratton. 3,017,934.
Sandiford, Burton B. 3,018,826.
Schaeffer, William D. 3,017,420.
Schaeffer, William D. 3,020,300.
Schaeffer, William D. 3,043,892.
Schaeffer, William D. 3,049,575.
Schaeffer, William D., and Rea. 3,020,123.
Schaeffer, William D., and Rea. 3,043,893.
Sherwood, Thomas K. 3,068,627.
Stratton, Hal. 3,015,360.
Swiger, William F. 3,044,561.
Swiger, William F. 3,051,113.
Welsh, Charles J. 3,039,939.
Young, Donald C. 3,044,851.
Young, Donald C. 3,044,855.
Union Pacific Railroad Co. : *See*—
Miller, Donald E. 3,017,841.
Union Rheinische Braunkohlen Kraftstoff AG : *See*—
Hubenett, Fritz, and Schnack. 3,062,891.
Union Special Machine Co. : *See*—
Hale, Arthur N. 3,015,290.
Hale, Arthur N., Covert, and Volkmann. 3,044,428.
Hale, Arthur N., Nelson, and Edwards. 3,063,770.
Peterson, Albert C. 3,063,574.
Reimer, George M. 3,065,717.
Schoij, Edgar, and Smith. 3,068,818.
Union Special Maschinenfabrik, G.m.b.H. : *See*—
Daniel, Hermann F. 3,033,141.
Union Starch & Refining Co., Inc. : *See*—
Lenney, James F., and Shively. 3,039,936.
Trimnell, Donald, Patel, and Johnston. 3,035,045.
Union Steel Products Co. : *See*—
Averill, Charles C. 3,022,900.
Gauss, Allen W. 3,048,162.
Huffman, Levi D., and Reed. 3,052,484.
Romero, Victor R. 3,052,203.
Union Tank Car Co. : *See*—
Burkhardt, Kenneth J. 3,063,565.
Jacobson, Richard L. 3,035,464.
Kryzer, Benjamin H. 3,017,995.
Kryzer, Benjamin H. 3,042,431.
Most, Nathan. 3,054,571.
Pietsch, Leonard C. 3,017,983.
Pietsch, Leonard C. 3,039,335.
Shang, Jeng C. 3,050,210.
Tischler, Edward J., and Kryzer. 3,029,832.
True, Arthur J. 3,059,788.
Weis, Frank G. 3,052,260.
Wilkin, Lester A., and Marsh. 3,034,880.
Unipak Cartons Ltd. : *See*—
Carpenter, Virgil R. 3,070,268.
Curran, John J. 3,034,682.
Engel, Karl. 3,070,283.
Richardson, James A. 3,070,276.
Vesak, Joseph. 3,056,537.
Wasyluka, Paul. 3,025,999.
Unipat A.G. : *See*—
Thoma, Oswald, and Bowers. 3,040,532.
Unipress Co., Inc., The : *See*—
Carpenter, Virgil R., and Turner. 3,021,606.
Carpenter, Virgil R., and Turner. 3,035,510.
Unistrut Products Co. : *See*—
Young, Royce O. 3,034,609.
Unitcast Corp. : *See*—
Floehr, Walter L. 3,021,798.
Floehr, Walter L. 3,022,536.
Ingram, Orville. 3,029,748.
United Aircraft Corp. : *See*—
Abild, Robert N. 3,046,734.
Abild, Robert N., Broders, Crim, and Gallant. 3,050,936.
Arcidiacono, Peter J. 3,031,017.
Bayley, Donald S., White, and Schaefer. 3,027,808.
Beardsley, Guy E., Jr. 3,037,377.
Beatrice, Finton J. 3,038,762.
Beggs, John C. 3,028,096.
Benedict, Marcus C. 3,057,159.
Best, Stanley G. 3,034,583.

United Aircraft Corp.: *See*—Continued
Best, Stanley G. 3,045,983.
Best, Stanley G. 3,047,210.
Best, Stanley G. 3,069,173.
Brahm, Charles B. 3,025,418.
Brahm, Charles B. 3,042,872.
Brahm, Charles B. 3,045,426.
Brahm, Charles B. 3,057,170.
Broders, Claude O., and Rahilly. 3,041,828.
Breeze, John E. 3,031,953.
Brown, William H. 3,034,294.
Brunkhardt, Frederick W. 3,056,257.
Bruun, Eugene R. 3,045,500.
Carlstein, Joseph. 3,018,395.
Carlstein, Joseph. 3,067,396.
Chamberlain, John. 3,049,870.
Coar, Richard J. 3,041,826.
Coburn, Robert E. 3,062,566.
Collins, James W. 3,058,360.
Crim, Hugh S. 3,069,849.
Davis, Jack W., and Pinsley. 3,052,088.
Dickson, John A., and Chalfant. 3,024,734.
Dmitroff, George A. 3,027,704.
Dobbins, Willis E. 3,047,229.
Dooley, Philip G., and Handley. 3,062,004.
Dooley, Philip G., and Tinkelenberg. 3,050,942.
Edgerly, Glenn E., Hahn, and Auslender. 3,038,409.
Emmerich, Claude L. 3,033,037.
Evans, Frederick P. 3,015,935.
Fanti, Roy A. 3,042,371.
Fanti, Roy A., and Carta. 3,034,762.
Fischer, Richard L. 3,068,943.
Fulton, George P., and Lombard. 3,015,504.
Galligan, John T. 3,056,365.
Haltman, Herbert. 3,051,942.
Gamble, Richard F., and Lanctot. 3,016,706.
Gaubis, Leonard L., and Hall. 3,045,762.
Gerstenberger, Walter, and Jensen. 3,037,722.
Gilbert, Jack. 3,019,426.
Greunke, Orville V. 3,060,319.
Haight, Frank L. 3,050,273.
Hamilton, Stuart. 3,062,003.
Hannigan, William D. 3,057,298.
Harris, Lawrence. 3,032,716.
Hasbrouck, Augustus. 3,070,329.
Hasbrouck, Augustus, and Thompson. 3,057,541.
Hausmann, George F. Re. 25,253.
Hausmann, George F. 3,016,063.
Hoadley, Henry H. 3,031,046.
Hoffman, Leslie J. 3,068,833.
Holmes, Trent H. 3,038,962.
Holmes, Trent H. 3,060,684.
Hopper, Fred H. 3,044,607.
Hopper, Philip S. 3,030,771.
Hopper, Philip S. 3,054,254.
Horgan, John J. 3,049,875.
Horgan, John J. 3,057,150.
Howard, George J., Jr. 3,016,109.
Kamm, Lawrence J. 3,019,403.
Kladde, Gerhard A. 3,036,225.
Kottsieper, Edward. 3,050,275.
Krause, Charles A., and Emerson. 3,066,867.
Kristy, John A., and Waldman. 3,070,789.
Kunz, Cleon V. 3,015,508.
Kurti, Alexander. 3,040,524.
Lambeck, Raymond P. 3,051,092.
Lambeck, Raymond P. 3,053,197.
Lambeck, Raymond P. 3,067,693.
Lanctot, Robert S. 3,023,763.
Lang, Paul H., and Vicik. 3,040,318.
Ledwith, Walter A. 3,028,729.
Ledwith, Walter A. 3,031,842.
Ledwith, Walter A. 3,063,240.
Ledwith, Walter A. 3,071,915.
Ledwith, Walter A., and Newcomb. 3,069,850.
Lee, John G. 3,041,992.
Lee, John G. 3,059,877.
Lee, John G., and Jenney. 3,032,120.
MacLaren, Frederick B. 3,020,527.
Martin, Henry E. 3,046,450.
Martin, Henry E. 3,052,857.
McLafferty, George H. 3,043,118.
McNab, John A. 3,064,947.
Mendelson, Myron J., and Krause. 3,035,770.
Metz, Robert L. 3,038,135.
Meyer, Robert E. 3,018,620.
Meyer, Robert E. 3,032,974.
Meyer, Robert E., and Bellak. 3,044,479.
Michel, Philip L., and Fradenburgh. 3,056,456.
Miller, Guy W. 3,022,040.
Miller, Guy W. 3,055,225.
Miller, John R. 3,055,641.
Moffitt, Guy R. 3,041,486.
Montgomery, Robert L. 3,046,901.
Mulready, Richard C. 3,058,303.
Naples, Philip V. 3,064,476.
Nichols, Arnold D. 3,028,141.
Olson, John A., and McNab. 3,053,510.
Overman, Aubrey Y. 3,065,293.
Peck, William C. 3,044,013.
Pedersen, Nicholas F., and Lambeck. 3,056,358.
Peek, Charles A., Jr. 3,019,600.
United Aircraft Corp.: *See*—Continued
Peterson, Charles J. 3,062,499.
Petterson, Birger, Jr., and Lomax. 3,068,683.
Petterson, Tor. 3,045,593.
Podolny, William H. 3,070,703.
Pond, Anthony V. 3,037,560.
Post, Daniel. 3,040,583.
Quenneville, Raymond N. 3,035,607.
Radtke, Edward W. 3,033,519.
Ranard, Elliot D., and Kepler. 3,030,770.
Rowley, Robert L. 3,034,763.
Saslovsky, Sidney, Machover, and Siff. 3,018,965.
Saylor, William H. 3,019,421.
Saylor, William H. 3,033,459.
Schaefer, Carl F., and Speller. 3,020,533.
Schafer, Curtiss R. 3,064,478.
Seaward, Edward T., and Rosati. 3,044,264.
Sens, William H. 3,019,601.
Schwarz, Helmut J. 3,056,881.
Shaw, Walter C. 3,051,070.
Shepard, Amos E. 3,038,652.
Shevchenko, Richard P., and Waring. 3,025,115.
Shoup, Edgar C., Jr. 3,030,006.
Small, Leslie C., Jr. 3,043,564.
Smith, Alden F. 3,063,661.
Sullivan, Donald F. 3,050,575.
Sullivan, Richard N. 3,050,014.
Sullivan, Richard N., and Lambeck. 3,034,451.
Taylor, Herbert E. 3,053,281.
Ten Bosch, Maurits, Bayley, Mathiesen, and Schaefer. 3,039,096.
Ten Bosch, Maurits, and Lang. 3,035,477.
Torell, Bruce N. 3,039,720.
Torell, Bruce N. 3,056,256.
Tumavicus, Julius W. 3,057,581.
Tumavicus, Julius W. 3,064,534.
Tumavicus, Julius W. 3,066,702.
Tumavicus, Julius W. 3,068,649.
Tumavicus, Julius W. 3,069,851.
Tweet, John H. 3,032,984.
Tyler, John M., and Sofrin. 3,033,494.
Tyler, John M., and Towle. 3,027,713.
Vest, Marvin L., Jr. 3,069,847.
Waldron, Merritt C., and Di Maio. 3,070,787.
Wallace, Rudolf N. 3,030,065.
Wissinger, Alan B. 3,050,776.
Ziserman, Martin, and Preston. 3,066,865.
United Aircraft Products, Inc.: *See*—
Hughes, Paul R. 3,048,374.
Kimm, Ewald J. 3,047,055.
Klank, Walter C., Jr. 3,048,138.
Klank, Walter C., Jr., and Hughes. 3,016,912.
Ledwith, Walter A. 3,048,010.
Parker, Kenneth O. 3,028,164.
Preston, Robert E., and Kimm. 3,037,747.
Tumavicus, Julius W. 3,048,011.
United Carbon Co., Inc. (Maryland): *See*—
Reynolds, Richard H., and Askew. 3,045,692.
Whitsel, Travis S., Jr. 3,051,556.
Whitsel, Travis S., Jr. 3,060,004.
Williams, David C. 3,057,688.
Williams, David C. 3,060,003.
United-Carr Fastener Corp.: *See*—
Barlow, Norman M., and Melanson. 3,049,462.
Becker, Philip D. 3,036,793.
Benson, Donald L. 3,050,705.
Christian, James B. L. 3,050,349.
Cochran, Clarence W. 3,023,473.
Cochran, Clarence W. 3,049,585.
Cochran, Clarence W. 3,049,781.
Cochran, Clarence W. 3,050,097.
Cochran, Clarence W. 3,059,739.
Cornell, Allen D. 3,045,856.
Coyle, William J. 3,019,003.
Coyle, William J. 3,037,734.
Del Camp, Scipione M. 3,017,604.
Del Camp, Scipione M. 3,065,437.
Fitz Gerald, Robert E. 3,032,741.
Flanagan, William H., Jr. 3,066,643.
Fraser, Robert W. 3,046,377.
Fraser, Robert W. 3,049,600.
Fraser, Robert W. 3,060,401.
Griffin, Theodore R. 3,018,535.
Heath, Clarence W. 3,067,955.
Hughes, Norman J. 3,021,537.
Johnson, Frank E., Sr. 3,045,309.
Johnson, Lester B. 3,017,596.
Jones, Walter I. 3,015,141.
Jones, Walter I. 3,019,152.
Kern, Walter P. 3,034,615.
Knowlton, David R. 3,025,557.
Knowlton, David R. 3,028,184.
Knowlton, David R. 3,064,228.
Lewin, Leon F. 3,049,777.
Majewski, Stanley J. 3,029,411.
Majewski, Stanley J. 3,031,639.
Majewski, Stanley J. 3,034,092.
Majewski, Stanley J. 3,047,687.
Majewski, Stanley J. 3,047,831.
McKee, William H. 3,031,640.
Mitchell, Edward M., and Flanagan. 3,015,797.
Mitchell, Edward B., and Flanagan. 3,024,335.

United-Carr Fastener Corp.: *See*—Continued
Murphy, Howard J. 3,036,145.
Olson, Conrad, and Hoadley. 3,029,549.
Parkin, Leslie, and Brealey. 3,016,784.
Parkin, Leslie, and Simpson. 3,027,609.
Pender, Lloyd G., Sr. 3,015,140.
Pender, Lloyd G., Sr. 3,018,530.
Peters, Arthur C. 3,034,086.
Petri, Hector D. 3,015,718.
Sarafinas, Bruno A. 3,019,409.
Sarafinas, Bruno A. 3,021,975.
Sarafinas, Bruno A. 3,059,299.
Shears, Stuart T. 3,023,474.
Shears, Stuart T. 3,045,304.
Shomber, Kerlan J. 3,060,112.
Trafton, Warren L. 3,024,336.
Trafton, Warren L. 3,049,369.
Van Buren, Harold S., Jr. 3,063,115.
Wells, Alfred W. J. 3,028,138.
Wilhelmi, Julius B. 3,059,267.
Willis, Grant N. 3,020,625.
Willis, Grant N. 3,022,887.
United Cellular Products Corp.: *See*—
Howard, Jack E., and Kaplan. 3,058,154.
United Concrete Pipe Corp.: *See*—
James, Kenneth E. 3,017,695.
United Elastic Corp.: *See*—
Laliberte, Arthur L. 3,029,180.
Lipski, Anthony M. 3,057,009.
United Electric Controls Co.: *See*—
Leupold, Henry G. 3,019,312.
United Electro Plastics Corp.: *See*—
Efron, Miles S. 3,068,156.
United Electrodynamics, Inc.: *See*—
Peterson, Raymond A., and Coker. 3,051,897.
United Engineering and Foundry Co.: *See*—
Fry, Howard N. 3,035,335.
Fry, Howard N. 3,058,376.
O'Brien, Jeremiah W., and Blair. 3,062,470.
Stone, Morris D. 3,027,827.
United Engineering Mfg. Co.: *See*—
Martin, Philip 3,050,763.
United Engineers & Constructors Inc.: *See*—
Haug, John S. 3,037,758.
Honnold, James L., Jr. 3,039,955.
Milbourne, Charles G. 3,019,096.
Shannon, Robert H., and Williamson. 3,061,533.
United Equipment Accessories, Inc.: *See*—
Iserman, Lavern R. 3,035,713.
United Gas Corp.: *See*—
Moore, Jerry W., Jr. 3,047,270.
Moore, Jerry W., Jr. 3,055,637.
United Geophysical Corp.: *See*—
Boice, Frank S., and Johnson. 3,051,926.
Peterson, Raymond A. 3,045,207.
United-Greenfield Corp.: *See*—
Kallio, William J. 3,051,205.
United Insulator Co. Ltd.: *See*—
Robins, Robert H. 3,059,130.
United Kingdom Atomic Energy Authority: *See*—
Amphlett, Colin B. 3,056,647.
Ashley, James W., and Knight. 3,016,765.
Bagnall, Kenneth W., and Robertson. 3,038,787.
Barker, Allan. 3,034,837.
Bishop, John, and Evans. 3,030,505.
Bradley, Norman, and Jones. 3,039,811.
Bryant, Jack. 3,037,115.
Butler, Frank, and Tatlock. 3,030,291.
Challender, Ronald S., and Roumph. 3,053,746.
Chaplin, George B. B., Owens, and Candy. 3,069,559.
Cockbaine, David R., and Hogg. 3,065,348.
Cooke-Yarborough, Edmond H. 3,021,485.
Cooke-Yarborough, Edmund H. 3,056,047.
Crowell, Leo A. 3,030,625.
Daly, Norman R. 3,041,453.
Davis, Herbert M., and Seaborn. 3,065,410.
Dent, Kenneth H. 3,051,642.
Duncombe, Edward, and Page. 3,058,111.
Fortescue, Peter, and Lockett. 3,034,976.
Fortescue, Peter, and Lockett. 3,039,947.
Franklin, Ernest. 3,059,174.
Gulbrandsen, Helge. 3,030 643.
Gumeratne, Piyatilleke P., Young, and French. 3,051,641.
Hackney, Stanley. 3,020,226.
Howarth, Arthur J., and Collins. 3,026,730.
Hughes, John D. H. 3,026,436.
Huston, Alexander E. 3,060,807.
Hutchinson, William G., and Cole. 3,015,278.
Hutchinson, William G., and Cole. 3,026,807.
Keefe, Edward J. 3,036,200.
Long, Everett, Packman, and Gurner. 3,029,344.
Lotarski, Stephen P., and Speight. 3,030,644.
McLaren, Norman H., and Mitchell. 3,026,083.
Murray, Peter, and Livey. 3,025,137.
Rodwell, William. 3,022,239.
Stephen, James H. 3,027,309.
Tatlock, John, and Glass. 3,054,741.
Thompson, William, and Nowell. 3,020,474.
Thonemann, Peter C., Carruthers, and Bickerton. 3,054,742.
Waine, Peter, and Abel. 3,035,634.
Walker, George B., and Hyman. 3,028,565.

United Kingdom Atomic Energy Authority: *See*—Continued
Warner, Benjamin F., Tonkin, and Shaw. 3,066,728.
Whitley, Stanley. 3,039,830.
Whitmore, Robert A. 3,030,964.
Wyatt, Leslie M. 3,030,293.
United Kingdom Atomic Energy Authority, Patents Branch, The: *See*—
Millar, William. 3,019,656.
Pratt, Henry R. C. 3,019,610.
Pratt, Henry R. C. 3,058,898.
United Mattress Machinery Co., Inc.: *See*—
Kalning, Frederick E. 3,070,049.
Kalning, Frederick E., and Redman. 3,031,985.
Kalning, Frederick E., and Redman. 3,062,161.
United Medical Products Co., Inc.: *See*—
Foley, Frederic E. B. 3,048,360.
United Merchants and Manufacturers, Inc.: *See*—
Burr, Francis K., and Panto. 3,043,719.
Dabrowski, Jan. 3,023 072.
Lyons, Richard J. 3,065,730.
Tripp, Elbert S., and Coursey. 3,041,007.
United Music Corp.: *See*—
Durant, Lyndon A. 3,028,160.
Durant, Lyndon A. 3,028,580.
United Nuclear Corp.: *See*—
Corrsin, Lester. 3,045,178.
Jens, Wayne H. 3,041,262.
Lapsa, Philip E., Gordon, and Holden. 3,019,139.
Winckler, Gunnar A. F. 3,020,325.
Winckler, Gunnar A. F., and Evans. 3,048,643.
Young, Gale J., and Poole. 3,047,479.
United Rubber & Chemical Co.: *See*—
Ellis, Pritchard P., and Bullard. 3,048,984.
United Shoe Machinery Corp.: *See*—
Anderson, George O., and Bradley. 3,054,314.
Anniss, Charles H., and Kiss. 3,030,484.
Baker, Willard L., Dorosz, and Stewart. 3,024,480.
Baker, Willard L., and Snow. 3,024,479.
Barton, George C. 3,055,026.
Becker, Karl V., and Lyness. 3,061,854.
Bergeron, Walter H. 3,056,363.
Berrill, William H., Szerszynski, and Waite. 3,056,165.
Bowler, Raymond M., and Bray. 3,016,551.
Bowler, Raymond M., and Clamp. 3,020,571.
Bradley, Robert W., and Miller. 3,031,986.
Bradley, Robert W., and Miller. 3,031,987.
Bray, Donald L., and Johnson. 3,061,852.
Brett, Oliver C., Jr. 3,031,873.
Brotchie, Walter J. 3,054,125.
Choice, Frank C. 3,048,893.
Crowley, Geralfd J. 3,021,543.
Decot, Harold T., and Stone. 3,067,424.
Deschenes, Emile A. 3,040,346.
Dexter, Richard D. 3,038,245.
Dexter, Richard D. 3,051,511.
Dixon, Paul H. 3,057,100.
Dorosz, Adolph S., and Stanton. 3,044,086.
Dorosz, Adolph S., and Stanton. 3,048,862.
Eckles, Geoffrey A., Elliott, Farley, and Schaefer. 3,040,563.
Eldred, Raymond D. E., and Frampton. 3,058,152.
Fake, Harry B., and Cutrin. 3,025,544.
Fake, Harry B., and Curtin. 3,064,599.
Fitzgerald, Charles F., and MacKenzie. 3,058,439.
Fitzgerald, Charles F., and Murphy. 3,048,134.
Fossa, Joseph. 3,024,481.
Gadd, Ronald O. C. 3,056,149.
Gulbrandsen, Helge. 3,055,026.
Gulbrandsen, Helge. 3,055,027.
Gulbrandsen, Helge, and Sprague. 3,052,901.
Haas, Otto R. 3,034,463.
Hall, Dennis S., and Reader. 3,024,482.
Ioannilli, Joseph R. 3,054,365.
Kestell, Thomas A., and Ward. 3,062,162.
Kilham, Charles O. 3,018,756.
Knott, Clyde L. 3,058,435.
Lane, Robert F. 3,062,615.
Lane, Robert F. 3,069,706.
Levaggi, Victor J., Jr. 3,040,349.
Lotarski, Stephen P. 3,058,130.
Machain, Eugene J., and Pappas. 3,025,386.
Merriam, Frederic C., and Whitmore. 3,063,892.
Millar, George. 3,063,578.
Miller, Lloyd G. 3,048,133.
Miller, Lloyd G. 3,064,595.
Miller, Lloyd G. 3,064,596.
Miller, Lloyd G. 3,068,815.
Miller, Lloyd G., and Bradley. 3,055,323.
Mulvey, John J., and Wilkinson. 3,051,412.
Musser, C Walton. 3,020,775.
Musser, C Walton. 3,034,375.
Musser, C. Walton. 3,056 311.
Musser, C Walton. 3,065,645.
Newton, Albert E. 3,038,163.
Newton, Albert E., and Richardson. 3,039,949.
Patten, Harry B. 3,018,693.
Paulsen, Hans C. 3,021,540.
Paulsen, Hans C. 3,022,238.
Paulsen, Hans C. 3,040,347.
Perkins, John L., and Holmberg. 3,063,958.
Quarmby, Robert C. 3,061,853.
Quinn, Edward. 3,020,861.

United Shoe Machinery Corp.: *See*—Continued
Quinn, Edward, 3,051,105.
Roach, Ralph H., 3,038,183.
Robinson, Hugh A., 3,058,372.
Rockwell, Adelbert W., Jr., and Mitchell. 3,022,527.
Roske, Milton H., 3,048,863.
Roske, Milton H., 3,069,705.
Ross, Herbert F., 3,063,072.
Schaefer, Hans F., Jr., 3,051,476.
Sendleben, Paul W., 3,019,461.
Shaw, Harold G., 3,021,541.
Sillars, Frederick S., 3,031,670.
Touchman, William S., and Barnes, 3,034,781.
Whitmore, Robert A., and Tu, 3,019,794.
Willis, Grant N., and Seccombe, 3,045,584.
Woodman, Charles K., 3,038,182.
United Show Case Co., Inc.: *See*—
Waszkiewicz, John A., 3,026,162.
United Steel Companies Ltd., The: ***See***—
Adcock, Joseph N., 3,025,865.
Murray, Joseph D., 3,017,266.
United Steel & Wire Co.: *See*—
Schray, Walter H., and Randolph, 3,037,658.
United Sweets of America, Inc.: *See*—
Paulini, Harry H. J., 3,020,659.
United Wire & Supply Corp.: *See*—
Turner, Ralph R., 3,040,911.
United Wire Works Ltd., The: *See*—
Ewen, Ian E., 3,017,676.
United States Bedding Co.: *See*—
Fisher, Richard A., 3,053,289.
Trotta, Leonard J., 3,045,865.
United States Borax & Chemical Corp.: *See*—
Ball, Geoffrey P., and Bowden, 3,032,391.
Boone, James L., 3,060,234.
Boone, James L., 3,062,880.
Brotherton, Robert J., and Petterson, 3,024,279.
Brotherton, Robert J., and Petterson, 3,048,632.
Brotherton, Robert J., Willcockson, and Steinberg, 3,045,038.
Brotherton, Robert J., and Woods, 3,057,905.
Cass, Raymond C., Long, and Brown, 3,032,590.
English, William D., 3,040,930.
English, William D., 3,035,095.
English, William D., 3,052,718.
English, William D., 3,064,033.
English, William D., McCloskey, and Steinberg, 3,028,368.
English, William D., Steinberg, and McCloskey, 3,068,-182.
Goldsmith, Harry, 3,031,502.
Horne, John C., Davis, and Baker, 3,031,214.
Houben, Heinz J., 3,027,993.
Hunter, Don L., Kitasaki, and Willcockson, 3,028,411.
McCloskey, Allen L., 3,062,892.
McCloskey, Allen L., 3,062,859.
McCloskey, Allen L., Brotherton, and Petterson, 3,062,-823.
McCloskey, Allen L., English, and Goldsmith, 3,052,641.
McCloskey, Allen L., Taylor, and Steinberg, 3,044,943.
Mitsell, Ellen M., and Kannacakis, 3,032,405.
Nies, Nelson P., 3,031,284.
Nies, Nelson P., and Bowden, 3,032,392.
Nies, Nelson P., and Kendall, 3,069,229.
Penland, Ray B. 3,067,113.
Petterson, Lowell L., 3,024,264.
Randolph, Carl L., and Bower, 3,030,174.
Steinberg, Howard, and Hunter, 3,027,397.
Steinberg, Howard, Hunter, Pickard, and Petterson, 3,048,614.
Taylor, Donald S., Bower, and Bohm, 3,018,307.
Willcockson, George W., 3,027,396.
Willcockson, George W., 3,035,887.
Willcockson, George W., 3,036,111.
Willcockson, George W., 3,060,218.
Willcockson, George W., Hunter, and Bengelsdorf, 3,069,-454.
Willcockson, George W., and Sandie, 3,024,265.
Willcockson, George W., and Sandie, 3,045,039.
Wilson, Martin, 3,059,774.
Wilson, William P., 3,051,548.
Woods, William G., and Iverson, 3,055,847.
U.S. Electrical Motors, Inc.: *See*—
Carlson, Robert J., 3,045,153.
Corey, Robert W., 3,016,754.
Graham, Frank S., Komor, and Redding, 3,046,604.
Komor, Peter S., 3,052,804.
Luenberger, Frederick O., 3,017,526.
Luenberger, Frederick O., 3,059,210.
O'Connor, Theodore D., 3,058,156.
Redding, Albert, Jr., 3,050,645.
United States Envelope Co.: *See*—
Heywood, Vincent E., and Ruggeri, 3,069,982.
U.S. Expansion Bolt Co.: *See*—
Potruch, Robert A., 3,022,701.
United States Gypsum Co.: *See*—
Lagergren, Stig, 3,029,940.
Larson, Kenneth R., 3,062,752.
Nelsson, Nels, 3,025,650.
Nelsson, Nels, 3,027,605.
Nelsson, Nels, and Knohl, 3,056,234.
Schairbaum, Albert W., 3,051,602.
Setterberg, Carl B., 3,022,538.
Slavich, Michael, 3,042,198.
Wendt, Frank J., 3,042,193.

U.S. Industries, Inc.: *See*—
Brown, Norman F., Peters, and Dinning, 3,039,394.
Dinning, Robert W., and Scott, 3,053,188.
Garrett, Henry U., and Peters, 3,059,421.
Goodell, John D., and Shelley, 3,021,611.
Goodell, John D., and Tengsater, and Shelley, 3,051,327.
Hermanson, Dean E., 3,034,440.
Johansen, Einar K., 3,051,992.
Kemp, Charles R., and Holmes, 3,036,229.
Liu, John K., 3,020,990.
Lowe, Edwin L., and Duzan, 3,033,113.
Peters, Clifford M., 3,043,331.
Peters, Clifford M., Dinning, and Brown, 3,045,750.
Peters, Clifford M., and Scott, 3,044,492.
Snyder, Asa E., Hornung, and Liu, 3,066,324.
Sommer, Gordon M., 3,027,793.
Sommer, Gordon M., and Mankowsky, 3,021,146.
Williams, Glynn H., 3,024,804.
Zillman, Jack H., Wagoner, Williams, and Sharp, 3,027,849.
U.S. Metal Products Co., Inc.: *See*—
Lapidus, Howard, 3,060,293.
United States Mineral Wool Co.: *See*—
Schlemmer, Robert E., 3,023,967.
United States of America
Agriculture: *See*—
Ault, Waldo C., and Feuge, 3,050,481.
Barthel, William F., Alexander, and Beroza, 3,070,-607.
Beal, Robert E., 3,052,699.
Beebe, Clarence W., Happich, Naghski, and Windus, 3,021,221.
Benedict, Robert G., Jeanes, Wickerham, and Babayan, 3,021,323.
Benjamin, Chester R., Hendershot, and Hesseltine, 3,063,909.
Bergman, Clarence E., 3,042,871.
Bickoff, Emanuel M., Livingston, and Booth, 3,027,382.
Bloch, Felix, 3,022,807.
Bullock, Austin L., and Guthrie, 3,017,237.
Bullock, Austin L., and Guthrie, 3,065,222.
Chance, Leon H., and Reeves, 3,038,776.
Ciegler, Alex, Hall, and Nelson, 3,025,221.
Cording, James, Jr., and Eskew, 3,038,813.
Craveri, Renato, Shotwell, and Fridham, 3,017,327.
Dupuy, Harold P., Goldblatt, and Magne, 3,052,680.
Eldridge, Arthur C., Nash, and Smith, 3,069,327.
Eskew, Roderick K., 3,021,223.
Frick, John G., Jr., 3,028,264.
Goodban, Alan E., and Stark, 3,047,430.
Guadagni, Dante G., 3,025,169.
Guglielmelli, Lewis A., Mayer, and Russell, 3,032,550.
Guglielmelli, Lewis A., Mayer, and Russell, 3,037,018.
Guglielmelli, Lewis A., Mayer, and Russell, 3,063,855.
Hanrahan, Francis P., 3,016,815.
Hargrove, Robert E., 3,041,248.
Hedrick, Glen W., 3,030,337.
Hedrick, Glen W., 3,031,499.
Hedrick, Glen W., 3,063,970.
Hedrick, Glen W., and Magne, 3,057,814.
Hendel, Carl E., Notter, and Reeve, 3,031,314.
Hendel, Carl E., Reeve, and Notter, 3,054,683.
Hodge, John E., and Nelson, 3,015,654.
Hodge, John E., and Nelson, 3,054,805.
Hofreiter, Bernard T., Hamerstrand, and Mehltretter, 3,062,703.
Hofreiter, Bernard T., Hamerstrand, and Mehltretter, 3,067,088.
Hyde, Wister U., and Cording, 3,024,823.
Hyde, Wister U., and Cording, 3,057,387.
Jacobson, Martin, 3,050,549.
Jacobson, Martin, 3,050,551.
Jeanes, Allene R., and Sloneker, 3,054,689.
King, William H., and Frampton, 3,025,314.
Koenig, Nathan H., 3,055,727.
Koenig, Nathan H., 3,057,036.
Koenig, Nathan H., Wasley, and Pardo, 3,059,990.
Krewson, Charles F., 3,044,866.
Kyame, George J., and Latour, 3,046,612.
Lancaster, Earl B., 3,031,319.
Leviton, Abraham, and Pallansch, 3,031,315.
Leviton, Abraham, and Pallansch, 3,065,086.
Lundgren, Harold P., and Pardo, 3,031,334.
Lundgren, Harold P., Pardo, and Foster, 3,049,445.
Maerker, Gerhard, and Port, 3,053,855.
Maerker, Gerhard, and Port, 3,069,441.
Magne, Frank C., Skau, and Mod, 3,066,111.
Mair, Vincent P., 3,052,550.
Mankowich, Abraham, 3,069,360.
Margolin, Harold, Croan, Kirk, and Farrar, 3,069,259.
McDonald, Clarence E., 3,030,211.
McKinney, Robert S., and Goldblatt, 3,032,467.
Michener, Harold D., and Lewis, 3,054,678.
Morgan, Arthur I., Jr., and Ginnette, 3,064,722.
Morgan, Arthur I., Jr., Ginnette, and Graham, 3,031,-313.
Morgan, Arthur I, Jr., Graham, and Ginnette, 3,031,-312.
Murthy, Gopala K., Campbell, Masurovsky, and Edmondson, 3,020,161.
Mustakas, Gus C., Griffin, and Kirk, 3,023,107.
Owens, Charles D., 3,068,496.

United States of America—Agriculture: *See*—Continued
Pardo, Clay E., Jr., and Foster. 3,033,706.
Pardo, Clay E., Jr., and O'Connell. 3,019,076.
Pons, Walter A., Jr., Kuck, and Frampton. 3,036,102.
Pons, Walter A., Jr., Pominski, and King. 3,062,876.
Rackis, Joseph J., and Smith. 3,049,530.
Reeves, Wilson A., Conner, and Chance. 3,065,111.
Reinhardt, Robert M., Frick, Arceneaux, and Reid. 3,015,584.
Reinhardt, Robert M., and Reid. 3,052,511.
Rorem, Edward S., and Lewis. 3,066,081.
Rosen, George. 3,042,748.
Sacks, Lawrence E. 3,060,130.
Schaefer, Wilbur C., and Russell. 3,033,851.
Scholfield, Charles R., Cowan, and Friedrich. 3,041,-360.
Schwab, Arthur W., and Teeter. 3,047,413.
Segal, Leon, Loeb, Tripp, and Clayton. 3,031,335.
Siderman, Joseph A. 3,069,668.
Smith, Cecil R., Jr., Bagby, and Wolff. 3,057,893.
Smith, Cecil R., Jr., Glass, and Wolff. 3,027,388.
Stark, John B. 3,015,565.
Sweeney, James P., and Martin. 3,044,882.
Swern, Daniel. 3,020,292.
Swern, Daniel, and Coleman. 3,054,804.
Swern, Daniel, and Knight. 3,049,504.
Vail, Sidney L., Frick, and Reid. 3,015,583.
Wall, Monroe E., Scott, Jr., and Kenney. 3,062,850.
Weaver, Elmer A. 3,019,170.
Weinecke, Laurence A. 3,031,305.
Air Force: *See*—
Alford, Joseph S. 3,048,971.
Anderson, Walter L., Snodey, and Welchman. 3,035,259.
Antes, Leland L. 3,065,515.
Arnold, James S., and Kochly. 3,016,735.
Bailey, David L. 3,041,542.
Baker, James G. 3,045,548.
Baker, James G. 3,045,549.
Barnes, Charles R., and Geesner. 3,038,243.
Beatty, John W. 3,023,703.
Beatty, John W. 3,045,117.
Beatty, John W. 3,066,589.
Bergman, Clarence E. 3,047,809.
Beroza, Morton. 3,046,191.
Bice, Charles C. 3,041,216.
Boensch, Frank D. 3,029,050.
Bohn, Jacob L., Nadig, and Korneff. 3,040,627.
Bronco, Charles J., and St. John. 3,018,397.
Brothers, William W., Jr. 3,049,057.
Carlson, Francis B. 3,032,834.
Chabot, Robert E., Jr. 3,046,662.
Close, Richard N. 3,028,504.
Coceano, Domenico. 3,059,667.
Condit, Ralph H. 3,039,857.
Cramer, Bruce G. 3,059,128.
Deobald, Harold J., and McLemore. 3,046,145.
Devol, Lee. 3,064,391.
Diamond, Fred I. 3,064,251.
Donovan, John J. 3,039,090.
Dudzlak, Chester. 3,024,424.
Dunn, Eugene L., Wilson, Cieslicki, and Moore. 3,067,030.
Eakin, Kenneth G. 3,065,377.
Ferri, Antonio. 3,069,119.
Forbath, Frank P., and Emmerson. 3,054,999.
Forbath, Frank P., and Williams. 3,064,249.
Fox, Homer M. 3,068,641.
Frank, Robert G. 3,032,317.
Franklin, Truman L., and Williams. 3,018,553.
Friedman, David S. 3,063,624.
Galbraith, Hugh J. 3,068,385.
Galopin, Anthony. 3,054,908.
Garbuny, Max. 3,017,458.
Garbuny, Max. 3,034,010.
Gebel, Radames K. H. 3,046,331.
Gebel, Radames K. H. 3,046,333.
Gebel, Radames K. H. 3,052,807.
Gose, Robert O. 3,038,303.
Grewell, Glenwood, and Jones. 3,047,774.
Griffin, Warren R. 3,041,316.
Haley, James C. 3,018,653.
Haynes, James E., Jr. 3,043,134.
Hildebrant, Richard V., and Wells. 3,031,543.
Hills, Campbell E. 3,031,603.
Hoffmann, Henry, Jr. 3,043,911.
Hoh, Siegfried R. 3,058,078.
Hooker, Ralph J., Macaulay, and Blanton. 3,045,920.
Howard, Charles M., James, and Schneider. 3,057,205.
Huebner, Edward J. 3,016,609.
Huebschmann, Eugene C. 3,016,752.
Jackson, Walter B., Johanson, and Lowe. 3,066,342.
Jett, James A. 3,017,744.
John, Frank T. 3,019,292.
Johnson, Francis M. 3,018,733.
Johnson, Francis M. 3,027,047.
Johnson, Herbert C. 3,049,015.
Johnston, Sidney F., Jr. 3,019,432.
Johnston, Sidney F., Jr. 3,020,542.
Jursik, James, Ward, and Shaw. 3,054,304.
Katzenberger, Edward F., and Steinbeck. 3,050,277.
King, Thomas F., Farnsworth, and Hannoosh. 3,049,-201.
United States of America—Air Force: *See*—Continued
Korneff, Theodore, Bohn, and Nadig. 3,029,685.
Kramer Bruce E. 3,032,316.
Kramer, Bruce E. 3,068,556.
Kreisman, Wallace S. 3,057,203.
Kreisman, Wallace S. 3,057,204.
Laas, Eugene D. 3,052,126.
Lawson, Gerald W., and Arrigo. 3,022,668.
Leavitt, Stanley L. 3,047,268.
Loedding, Alfred C. 3,048,357.
Logan, Wilson L. 3,052,852.
London, Gilbert J., and Zirinsky. 3,054,671.
Lowe, Edison, Durkee, and Hamilton. 3,046,143.
Luoma, Eino J., and Gross. 3,025,463.
MacMillan, Raymond A. 3,019,390.
MacMillan, Raymond A. 3,039,043.
Manning, Bernard. 3,043,667.
Matysek, John J. 3,034,071.
Maze, Robert O. 3,029,337.
Montgomery, Edna M., and Sexson. 3,046,161.
Nelson, Harold B., and Scripture. 3,046,453.
Nesselbush, Robert C., and Turansky. 3,058,482.
Nichols, Harry R. 3,066,098.
Nicholson, James F., and Naas. 3,031,778.
Novak, Warren D. 3,040,252.
Oda, Donald J., and McCollor. 3,015,818.
Ohlmann, Robert C., and Zarbuny. 3,030,546.
Olhodurt, Morris. 3,026,673.
Otey, Felix H., Wilham, and Mehltretter. 3,046,312.
Pachuta, Joseph R. 3,048,787.
Parker, James W. 3,030,889.
Pastoriza, James J. 3,054,101.
Peperissa, Thomas C., and Weissman. 3,025,410.
Phillips, Donald G. 3,055,178.
Polansky, Robert G. 3,063,283.
Power, David R., and Beatty. 3,028,449.
Putzrath, Franz L., and Moore. 3,049,681.
Reeves, Wilson A., Perkins, and Chance. 3,046,079.
Richard, Robert H. 3,054,951.
Ricketts, Percy E. 3,055,001.
Ritchie, Malcolm L. 3,017,609.
Roberts, Roy W., Jr., and Capone. 3,032,679.
Rosen, George. 3,028,562.
Rosenthal, Sidney. 3,055,779.
Rork, Wallace G., and Garner. 3,048,997.
Rubin, Milton D. 3,041,602.
Saltarelli, Eugene A., and Bergdorf. 3,029,598.
Schmitt, Vernon R. 3,063,426.
Schueller, Otto. 3,064,364.
Sikina, Thomas V. 3,051,258.
Sinclair, Gordon R. 3,036,795.
Sirons, Janis A. 3,064,256.
Skalwold, Robert N., and Burke. 3,068,581.
Smith, Caldwell P. 3,036,268.
Smith, Harry B., and Stuntz. 3,066,261.
Spodnewski, Walter G. 3,062,041.
Steele, Alan E. 3,017,747.
Thorpe, Robert J., and Eley. 3,059,427.
Turner, William P., and Arantz. 3,058,108.
Vlasic, Frank R. 3,049,322.
Weber, Berthold C. 3,049,432.
Weiswurm, Konrad. 3,032,847.
White, Stanley B. 3,019,433.
Willig, Frank J. 3,054,329.
Wood, Theodore C. 3,031,656.
Army: *See*—
Adams, Irving, and Wolff. 3,036,014.
Addison, Harry J., Jr., and Ritthaler. 3,049,610.
Ahlstrom, Edwin R., and Schiel. 3,049,622.
Antoniades, Basil. 3,069,386.
Apstein, Maurice. 3,028,809.
Apstein, Maurice. 3,052,185.
Arthaber, Josef M., and Moore. 3,034,436.
Arthur, James R., and Powers. 3,054,259.
Aveni, Anthony. 3,035,244.
Bailey, Theodore L., and Sadnick. 3,035,272.
Barker, Charles L., Jr. 3,041,741.
Barr, Irwin R. 3,039,405.
Barron, Edward R. 3,061,951.
Bartosh, Stephen J., and Pawlak. 3,025,336.
Batcelli, Alfred P., and McCullogh. 3,015,994.
Bean, Kenneth E., and Medcalf. 3,053,636.
Bechmann, Rudolf. 3,020,424.
Belser, Richard B., and Hicklin. 3,048,912.
Bergin, John A., and Robertson. 3,066,958.
Bickford, Richard M. 3,031,625.
Bogaty, Herman, Hollister, and Hintermaier. 3,060,551.
Bordt, Frederick J. 3,034,303.
Bornstein, Joseph, Blum, and Pratt. 3,021,358.
Bossard, Bernard B. 3,045,115.
Boyd, William H. A. 3,016,827.
Boyd, William H. A. 3,059,498.
Brenner, Abner, and Sherfey. 3,019,174.
Breskend, Sam D. 3,046,483.
Bross, Aaron A. 3,024,652.
Brown, Donald. 3,040,979.
Brown, Robert A. 3,049,998.
Bruenner, Rolf S. 3,034,893.
Brumfield, Richard S., Dwaayer, Shanty, and Shoemaker. 3,049,121.
Buchanan, Earl H., and Thompson. 3,066,484.
Buscall, David C., Jr. 3,054,574.

United States of America—Army: *See*—Continued
Carlucci, Michael P., and Persico. 3,015,108.
Carson, James S., Feild, Kegan, Markwood, and Whitney. 3,018,252.
Carter, John L. 3,059,192.
Carter, John L., and Moore. 3,052,856.
Carter, John L., and Reingold. 3,027,453.
Clark, Harlan C. 3,031,934.
Clayton, Robert L., Jr., and Loeb. 3,068,125.
Clements, John A., and Wirth. 3,036,569.
Close, Richard N. 3,064,250.
Cohn, Seymour B. 3,046,503.
Coleman, Charles H. 3,046,779.
Coles, Harold W., and Rohowetz. 3,061,483.
Comuntzis, Marcus G. 3,030,553.
Cornish, Edwin R., Jr. 3,023,293.
Craig, Harry L., Alderks, Corwin, Dieke, and Karel. 3,060,165.
Crook, James W., and Koon. 3,028,839.
Crosson, Jean H. 3,030,628.
Crosson, Jean H., and Khanbegian. 3,015,104.
Cureton, Warren D., Ford, Huebsch, and Skudre. 3,052,767.
Daniels, Glenn E. 3,049,012.
Darsie, Burns. 3,034,407.
Darsie, Burns, and Heifetz. 3,043,198.
Davis, Alfred. 3,028,611.
De Grazia, Joseph. 3,046,560.
De Marco, Carlo G., and Dias. 3,034,925.
De Marco, Carlo G., and Dias. 3,042,642.
Dickey, Frank R., Jr. 3,064,254.
Doctor, Norman. 3,029,495.
Dowdell, Thomas de W., and Musser. 3,031,968.
Dunn, Donald A. 3,019,366.
East, William J. 3,046,482.
Elbinger, Lewis P. 3,066,289.
Emile, Philip, Jr. 3,020,418.
Eshner, Allen J. 3,034,416.
Euterneck, Ernest T. 3,031,600.
Evans, Paul I., and Ransom. 3,049,056.
Farnsworth, Carl D., and Wheeler. 3,068,179.
Ferris, De Lacy F., and Youngquist. 3,034,293.
Fikes, Joseph E. 3,016,742.
Fisher, Alan J. 3,066,266.
Fowler Charles A., and Gager. 3,032,717.
Frank, Richard J. 3,069,498.
Freeman, Robert R. 3,027,305.
Fubini, Eugene G. 3,016,536.
Gaertner, Wolfgang W., and Schuller. 3,040,188.
Galvin, Francis E., and Roffman. 3,069,005.
Gardner, Charles N., Furrer, and Murray. 3,050,278.
Garver, Robert V. 3,019,400.
Gelman, Charles, and Kramer. 3,049,411.
George, Henry F., and Baker. 3,042,555.
Gerber, Eduard A. 3,020,223.
Giardini, Armando A., and Tydings. 3,067,465.
Gillespie, Charles N. 3,036,156.
Glatz, Joseph L., and Cichowski. 3,037,287.
Goepel, Oscar. 3,034,399.
Goldberg, Jack, Rosenberg, and Le Vino. 3,021,403.
Gordon, Saul, and Campbell. 3,018,654.
Grandy, Andrew J., and Greenwood. 3,038,713.
Grandy, Andrew J., and Shulman. 3,027,839.
Grant, Daniel J. 3,037,376.
Grover, Donald P. 3,017,807.
Guarricini, Joseph, Herskowitz, and Keigler. 3,026,765.
Hackley, Brennie E., Jr., Poziomek, and Steinberg. 3,045,025.
Hackley, Brennie E., Jr., Poziomek, and Steinberg. 3,054,799.
Haeussermann, Walter. 3,017,777.
Hager, Karl F., and Rosenthal. 3,068,081.
Hamilton, Robert C., and Mandroian. 3,042,836.
Hannas, Paul V., and Oschell. 3,027,840.
Hatch, Virgil O. 3,034,998.
Hatkin, Leonard. 3,064,258.
Hegge, Edward N., and McDonough. 3,059,578.
Hoadley, George B. 3,019,437.
Hoffmann, William H. 3,031,541.
Holderer, Oscar C. 3,034,348.
Hollis, John S. 3,018,450.
Holzer, Johann, and Narita. 3,052,854.
Hook, Harvey O., and Loebner. 3,031,579.
Huetten, Clarence, Smith, and Rogers. 3,030,460.
Huffman, J Lauton, and Williams. 3,065,380.
Hutchison, Frank C., Strinp, and Tibbetts. 3,059,577.
Jacobs, Clifford S. 3,033,199.
Jarrett, William J. 3,065,695.
Johnson, Stanley E., and Green. 3,025,471.
Jones, Harold S. 3,047,260.
Jones, Harold S., Chiriaco, and Shopalovich. 3,061,248.
Jones, Harold S., Dunlop, Lynch, and Prior. 3,035,961.
Jones, Howard S., Jr. 3,029,430.
Jones, Howard S., Jr. 3,046,507.
Jones, Ralph, Jr., Price, and Sen. 3,066,141.
Jurgeleit, Hans W. 3,027,359.
Kamm, Wunibald I. E., Staiger, and Krautter. 3,036,588.
Karayianis, Nick, and Morrison. 3,041,524.

United States of America—Army: *See*—Continued
Kargi, Gilard. 3,022,706.
Karpovich, Peter V. and G. P. 3,020,639.
Katsanis, David J. 3,050,000.
Keller, Robert G. 3,035,924.
Kennedy, Stephen J., and Barron. 3,032,894.
Kerr, John L. 3,032,762.
King, Bernard G. 3,069,500.
Kintzer, Nicholas D. 3,026,776.
Kirkpatrick, George M. 3,064,253.
Koeppen, Robert E. 3,035,520.
Korolick, Samuel R. 3,031,673.
Krakau, Werner S., and Olver. 3,031,632.
Kronenberg, Stanley. 3,052,797.
Langer, Creston F. 3,058,423.
Landsberg, Meyer L., Lastnik, and Lewis. 3,059,364.
Lawton, John G. 3,047,820.
Lindner, Herbert G. 3,016,519.
Lindner, Herbert G. 3,025,350.
Linn, Sidney S. 3,045,597.
Lipson, Samuel, and Slusinski. 3,053,075.
Lizza, Albert J. 3,044,361.
Loeb, Leopold, Clayton, Koltum, Philips, Segal, and Takemura. 3,054,695.
Lord, Charles A. 3,059,886.
MacDonald, Hugh D., Jr., Markgraf, and Waecker. 3,057,283.
MacDonald, Hugh D., Jr., Stott, and Waecker. 3,055,619.
Mandelkorn, Joseph. 3,070,477.
Marsh, Richard O., and Tuomy. 3,067,043.
Mattiat, Oskar. 3,018,451.
McClusky, Lonnie N., McKnight, and Mangus. 3,023,661.
McKinley, Robert E., and Gerlach. 3,057,131.
McKnight, William B., and Holter. 3,054,899.
McKnight, William B., McClusky, and Widenhofer. 3,020,414.
Mears, Merton D., and Ort. 3,059,565.
Merkl, Walter A., and Wasshausen. 3,027,689.
Miller, Lee F. 3,052,800.
Mitchell, Janina J. 3,066,048.
Montermoso, Juan C., Marinelli, and Andrews. 3,016,369.
Montgomery, Charles D. 3,057,219.
Morrow, Warren P. 3,062,071.
Mueller, Hans F. 3,027,810.
Muller, Hollis L., and Brent. 3,034,335.
Musser, C Walton. 3,021,760.
Musser, C Walton. 3,026,775.
Musser, C Walton. 3,027,809.
Musser, C Walton. 3,030,864.
Musser, C Walton. 3,035,494.
Musser, C Walton. 3,044,353.
Musser, C Walton. 3,057,264.
Norton, Desmond H., and Castleberry. 3,015,402.
O'Leary, John F., Kunkel, and Jones. 3,063,901.
Orloff, William, and Reich. 3,068,424.
Packard, Charles F., and Silsby. 3,054,208.
Palasthy, Edward S. 3,059,939.
Paulson, Theodore R. 3,049,670.
Pearlstein, Fred. 3,067,120.
Perdreaux, Rene Jr., and Meschino. 3,054,352.
Pernini, Henry M. 3,034,605.
Peters, Philip H., and Wilbur. 3,025,475
Petriw, Andrew. 3,016,490.
Pilkington, William C., Jr., McDonald, and Wells. 3,030,049.
Raleigh, Edmond J. 3,054,206.
Ramp, Herbert O., and Schmidl. 3,041,534.
Ransom, Maurice A. 3,024,453.
Reed, Charles A., and Rudd. 3,044,567.
Reepmeyer, Herman J. 3,044,364.
Reingold, Irving, and Carter. 3,058,070.
Richardson, John R. 3,049,148.
Robinson, Douglas J. 3,063,374.
Rogers, Morris R., Kaplan, and Cohen. 3,067,094.
Rosenblum, Robert A. 3,024,705.
Ross, Arthur H. 3,041,469.
Ross, Sidney H., and Teitell. 3,038,819.
Ruehrwein, Robert A. 3,062,730.
Sard, Eugene W. 3,043,513.
Schermer, Dirk, and Petit. 3,034,437.
Schneider, Wilhelm A. 3,015,684.
Schneider, Wilhelm A. 3,041,575.
Schubert, Adolf, and Cohen. 3,041,130.
Scuhoff, Lydia A. 3,047,424.
Segal, Leon, and Takemura. 3,054,696.
Shames, Albert A. 3,051,094.
Shaw, Robert F. 3,032,520.
Shea, Patrick H. 3,067,695.
Shuttleworth, Rose A. 3,033,073.
Simmons, William H., and Stott. 3,015,462.
Smith, Chester L., and Pinkley. 3,023,376.
Smith, Herbert R. 3,024,726.
Stein, Arnold B. 3,058,421.
Stepanski, Bernard, Smith, and Werthwine. 3,050,436.
Stirrat, William A. 3,063,022.
Stott, Albert M. 3,015,312.
Stott, Albert M. 3,027,124.
Stott, Albert M. 3,033,175.
Stott, Albert M. 3,043,093.

United States of America—Army: *See*—Continued
Stott, Albert M., 3,053,131.
Stott, Albert M., and Waecker, 3,034,289.
Strong, Herbert D., Jr. 3,059,949.
Swann, Melvin H. 3,042,554.
Szemplak, Jerome C., Ekstrom, Von Uffel, Horley, and Wood. 3,051,965.
Takaro, Timothy. 3,048,177.
Tarrant, Paul, and Stump. 3,062,799.
Toomey, John F. 3,017,781.
Turnbull, Norman K., and Kahn. 3,031,931.
Voelcker, Herbert B., Jr. 3,059,188.
Von Tiesenhausen, Georg. 3,038,383.
Wade, William L., Jr. 3,049,404.
Wanetick, Saul. 3,024,364.
Weiner, Louis I. 3,017,888.
Weiner, Louis I. 3,049,916.
Weiner, Louis I., and Brandt. 3,032,072.
Weinstock, Manuel. 3,032,015.
Weinstock, Manuel, and Sutter. 3,020,885.
Wenig, Harold G. 3,066,606.
Westerman, George S. 3,065,626.
White, Warren D. 3,040,257.
Whittington, Paul E. 3,064,448.
Witkin, Donald E. 3,033,085.
Yannuzzi, Angelo R. 3,048,106.
Younger, John O. 3,032,253.
Younger, John O. 3,040,960.
Atomic energy Commission: *See*—
Alford, William J., Jr., and Polhamus. 3,053,484.
Allen, Robert J., and Petrow. 3,023,078.
Ames, Lloyd L. 3,017,242.
Anderson, Cieve R. 3,046,212.
Anderson, John W., Miller, and Pritchard. 3,023,119.
Anderson, Oscar A. 3,031,396.
Anderson, Oscar A. 3,044,945.
Anderson, William F., Shimazaki, Stelle, and Tellefson. 3,029,198.
Archibald, Paul B. 3,054,147.
Arkelyan, Adele M., and Rickard. 3,029,842.
Ash, William J., and Pozzi. 3,033,549.
Babelay, Edwin F. 3,020,736.
Baker, William R., Bratenahl, and Furth. 3,029,199.
Baker, William R., Bratenahl, and Kunkel. 3,021,272.
Baker, William R., and Seelwig. 3,056,071.
Baker, William R., and Watteau. 3,038,099.
Bassett, Charles H. 3,022,240.
Batzer, Thomas H. 3,050,236.
Batzer, Thomas H., Ryan, and Cummings. 3,036,172.
Beaver, Richard J., and Leitten. 3,030,294.
Bellarts, Henry J. 3,059,303.
Bevilacqua, Frank, Uecker, and Groh. 3,018,240.
Biehl, Arthur T. 3,042,599.
Bishay, Adli M. 3,052,637.
Blanco, Raymond E., and Higgins. 3,065,044.
Blewett, John P. 3,019,458.
Bolt, Robert O., and Fontana. 3,052,738.
Booth, Eugene T., Jr., Pontius, Jacobsohn, and Slade. 3,024,009.
Botsford, Nelian B. 3,032,356.
Brandt, Herman L. 3,039,160.
Branum, David R., and Cummins. 3,067,344.
Briscoe, William L. 3,020,750.
Bruce, Francis R. 3,046,087.
Brussalis, William G., Jr., and Bost. 3,066,763.
Burns, Malachy T. 3,054,201.
Burris, Leslie, Jr., and Schneider. 3,023,097.
Butts, Harvey L. 3,020,647.
Cabell, Charles P. 3,069,337.
Cable, Robert E., Goode, Henderson, and Montillon. 3,041,266.
Cain, Francis M., Jr. 3,053,743.
Caller, James M. 3,034,088.
Campbell, David O., and Cathers. 3,039,847.
Cawley, William E. 3,068,161.
Cawley, William E., and Frantz. 3,023,040.
Chang, Chieh C. 3,039,014.
Chase, Robert I. 3,018,386.
Cherry, Norman H. 3,046,402.
Christofilos, Nicholas C. 3,036,963.
Clifford, Warren E. 3,036,881.
Coffinberry, Arthur S. 3,029,142.
Coffinberry, Arthur S., and Waber. 3,060,108.
Coffman, Raphael T. 3,065,864.
Colbert, Harry P. 3,059,688.
Conley, Walter R., Jr., and Pitman. 3,067,133.
Correy, Thomas B. 3,068,352.
Creutz, Edward C. 3,037,924.
Crever, Frederick E. 3,033,774.
Crouse, David J., Jr. 3,052,513.
Currier, Edwin L., Jr., and Nicklas. 3,049,486.
Currier, Edwin L., Jr., Nicklas, and Coombs. 3,068,-163.
Daniels, Farrington. 3,069,341.
Darnell, Alfred J., McCollum, and Meechan. 3,068,-093.
Davis, James O., Fogel, and Palmer. 3,069,228.
Davis, Merlin. 3,030,806.
Dike, Robert S., Lier, Schofield, and Tuck. 3,030,547.
Dombrow, Bernard, and Lerner. 3,062,757.
Donnelly, Ralph G., Gilliland, and Slaughter. 3,022,-162.
United States of America—Atomic Energy Commission: *See*—Continued
Elliott, Reed O., and Gschneidner. 3,043,727.
Ellis, Robert E. 3,022,933.
Erickson, Eugene E. 3,034,868.
Erwin, Jesse H. 3,068,160.
Fabregas, Joseph A. 3,054,599.
Faris, Burt F. 3,033,645.
Fields, Paul R., and Isaac. 3,022,134.
Fortescue, Peter, and Nicoll. 3,031,397.
Fowler, Andrew H. 3,039,032.
Fox, Thomas H., III, Richey, and Winders. 3,059,908.
Franzen, Wolfgang, and Nicol. 3,063,005.
Frazer, Jack W. 3,033,771.
Frazer, Jack W. 3,069,584.
Friedman, Lewis. 3,016,459.
Frigerio, Norman A. 3,027,391.
Frisch, Erling, and Johnson. 3,034,814.
Fry, William A. 3,036,811.
Furgerson, William T., and Samuels. 3,027,143.
Furth, Harold P., and Chambers. 3,024,182.
Gens, Theodore A. 3,043,653.
Gilbert, Francis C. 3,025,162.
Gilliland, Ralph G., Patriarca, Slaughter, and Williams. 3,038,249.
Goeddel, Walter V. 3,041,260.
Goeddel, Walter V., and Simnad. 3,031,389.
Goertz, Raymond C., and Lindberg. 3,018,980.
Googin, John M. 3,037,839.
Gow, James D., and Layman. 3,025,429.
Graham, Martin H. 3,054,926.
Graham, Richard H. 3,052,616.
Gregory, John F., Jr., and Levey. 3,037,840.
Grimes, Warren R., Shell, and Watson. 3,063,794.
Grinstead, Robert R. 3,018,253.
Happell, John J., Thomas, Denise, and Bunts. 3,018,-239.
Harrer, Joseph M., Fromm, and Kolba. 3,049,487.
Hartwig, Edward C., Cummings, and Post. 3,015,748.
Hauth, Joseph J. 3,042,594.
Hauth, Joseph J., and Anicetti. 3,067,117.
Hedley, William H., Roehrs, and Henderson. 3,041,-136.
Heestand, Richard L., and Picklesimer. 3,046,650.
Herold, Edward W. 3,052,614.
Herrick, Claude C. 3,049,481.
Hildebrandt, Robert A., Hyman, and Vogler. 3,049,-402.
Hobbs, Willard E. 3,035,894.
Holl, Richard J., Klecker, and Graham. 3,034,977.
Horn, Frederick L. 3,046,088.
Hough, Paul V. C. 3,069,654.
Howard, Robert C., and Bokros. 3,024,181.
Huff, John B. 3,025,143.
Hurford, Walter J., Gordon, and Johnson. 3,070,527.
Hyman, Mark, Jr. 3,041,287.
Johns, Floyd L., Gronemeyer, and Dusbabek. 3,052,-615.
Johnson, Burford L., and Detterman. 3,038,845.
Johnson, Ernest F. 3,037,922.
Johnson, Oliver. 3,047,601.
Johnson, Robert W., and Wright. 3,031,385.
Johnson, Stanley O., and Fairey. 3,028,091.
Johnston, Lawrence H. 3,040,660.
Jones, William H., and Reece. 3,054,896.
Jonke, Albert A., Barghusen, and Levitz. 3,049,401.
Kane, James S., Carpenter, and Krikorian. 3,017,286.
Kaserman, John A., and Oliver. 3,063,290.
Kaufman, William M. 3,049,628.
Kaufman, William M., and Jeeves. 3,052,801.
Kertesz, Francois, and Buttram. 3,031,342.
Kesselring, Kenneth A. 3,049,483.
Kiehn, Robert M., King, Peterson, and Swickard. 3,041,263.
Kippenhan, Dean O. 3,055,631.
Kirsten, Frederick A. 3,016,475.
Kittel, John H., and Schumar. 3,067,116.
Kosmin, Milton, and McEwen. 3,041,261.
Krikorian, Nerses H., Farr, and Whitteman. 3,020,632.
Krucoff, Darwin. 3,039,948.
Kruskal, Martin, Tuck, Colgate, and Rosenbluth. 3,016,342.
Layer, Edwin H., Jr. and Peet. 3,018,238.
Lees, Gale W., and McCormick. 3,035,996.
Litton, Felix B. 3,044,946.
Lovberg, Ralph H., and Burkhardt. 3,047,480.
Luce, John S. 3,030,543.
Lyon, Ward L. 3,030,176.
Magner, James E., Long, Ellis, and Grinstead. 3,030,-175.
Mahlmeister, James E. 3,028,329.
Manning, Frank W., Groothuis, Lykins, Mahoney, and Papke. 3,038,997.
Marshall, Leona. 3,056,023.
Martin, Allan E., Johnson, Burris, Winsch, and Feder. 3,063,830.
Mattingly, James T. 3,056,028.
Mayer, Stanley W 3,063,923.
McBride, John P. 3,023,085.
McCord, Andrew T., and Spink. 3,032,388.
McCorkle, Kenneth H., Kleinsteuber, Schilling, and Dean. 3,035,895.

United States of America—Atomic Energy Commission: *See*—Continued
McCorkle, Willard H., and Cern. **3,031,394.**
McDonald, Henry C., Jr. 3,069,628.
McLain, Milton E., Jr., and Roberts. 3,024,172.
Medal, Einer. 3,025,371.
Meimed, Arthur S., Shevlin, and Laupheimer. **3,054,989.**
Metcalf, Herbert E. 3,070,530.
Milleron, Norman. 3,024,965.
Milleron, Norman. 3,037,685.
Milleron, Norman. 3,038,731.
Milleville, Bertram J. 3,049,150.
Moore, Raymond H. 3,029,130.
Moore, Raymond H. 3,052,536.
Moore, Raymond H. 3,052,537.
Moore, Raymond H. 3,057,717.
Morse, Leon E. 3,048,474.
Murthy, Gopala K., Campbell, Masurovsky, and Edmondson. 3,020,161.
Norgren, Duane U. 3,045,528.
November, Gerald S., and Schute. 3,021,708.
Ogle, Pearl R., Jr. 3,039,846.
Ohlinger, Leo A. 3,048,533.
Oliver, Albert J. 3,031,304.
Paine, Robert M., and Stonehouse. 3,055,816.
Patriarca, Peter, and Slaughter. 3,065,537.
Payne, John H., Jr. 3,044,947.
Peppard, Donald F., and Mason. 3,034,854.
Peterson, David C., and Sexer. 3,044,847.
Piper, Roger D. 3,052,611.
Poppelbaum, Wolfgang J. 3,067,339.
Post, Richard F. 3,052,617.
Post, Richard F., and Coensgen. 3,069,344.
Powers, Richard M. 3,045,090.
Precht, Walter, and Barr. 3,031,395.
Rainey, Robert H., and Moore. 3,049,400.
Ramage, Robert V. 3,033,229.
Reavis, James G., Leary, and Maraman. 3,049,423.
Reavis, James G., Leary, and Maraman. 3,063,820.
Reeder, Seth D. 3,034,910.
Reinhardt, Joseph A. 3,017,742.
Reinhart, Gregory M., and Collopy. 3,063,792.
Rhodes, Donald W., McHenry, and Ames. 3,032,497.
Robb, John E. 3,037,796.
Rodin, Max B., and Carter. 3,034,978.
Ryan, Thomas M. 3,028,517.
Sailor, Vance L., and Aichroth. 3,067,365.
Saur, Albert J., McCarty, and Johnson. 3,031,393.
Schaner, Burton E., and Wolfe. 3,069,338.
Schluderberg, Donald C., and Ryon. 3,033,773.
Schmitt, John M. 3,052,544.
Scola, Daniel A., Smith, and Wineman. 3,064,061.
Seaborg, Glenn T., and James. 3,044,944.
Searcy, Alan W., and Meschi. 3,031,394.
Sheppard, John C. 3,047,360.
Sherman, Jerome, Shurbaugh, Fauth, Palladino, and De Huff. 3,060,111.
Silker, Wyatt B. 3,029,200.
Silverman, Leslie. 3,018,159.
Simmons, Wallace R., and Koch. 3,029,796.
Simnad, Massoud T. 3,028,256.
Simon, Albert. 3,032,490.
Simon, John P. 3,052,142.
Sparber, Frederick J. 3,049,690.
Spedding, Frank H., and Butler. 3,034,889.
Spinrad, Bernard I., Sandmeier, and Martens. 3,070,538.
Spitzer, Lyman, Jr. 3,016,341.
Stacy, John T., and Saller. 3,047,484.
Stacy, John T., Saller, and Porembka. 3,032,492.
Steindler, Martin J. 3,046,089.
Stevens, Don J. 3,018,460.
Stix, Thomas H. 3,013,618.
Stoddard, Stephen D., Nuckolls, and Cowan. 3,052,532.
Stone, Cecil C., and Noland. 3,045,108.
Stoughton, Lincoln D., and Robinson. 3,034,689.
Swanton, Walter F. 3,031,174.
Tatlock, John, and Glass. 3,049,485.
Thorp, Arthur G., II. 3,048,532.
Tonks, Lewi. 3,048,534.
Treshow, Michael. 3,035,993.
Treshow, Michael. 3,070,537.
Tuck, James L. 3,031,398.
Tuck, James L. 3,037,921.
Ulrich, Aaron J., Butler, and Hatch. 3,022,236.
Untermyer, Samuel. 3,029,197.
Vernon, Harcourt C. 3,049,480.
Vetrano, James B. 3,018,169.
Visek, Willard J. 3,029,184.
Vogel, Richard C., and Rodger. 3,031,261.
Von Eschen, Robert L., and Scheele. 3,031,608.
Webb, William H., and Vie. 3,038,844.
Whatley, Marvin E., and Woods. 3,052,361.
White, George D., and O'Rourke. 3,070,420.
White, Wilfrid F., and Schlueter. 3,033,753.
Wiegand, David E. 3,031,846.
Wigner, Eugene P., Ohlinger, Young, and Weinberg. 3,052,613.
Wilgus, Donovan R. 3,054,773.
Wilgus, Donovan R. 3,057,801.
Wilgus, Donovan R. 3,060,122.

United States of America—Atomic Energy Commission: *See*—Continued
Wilgus, Donovan R. 3,066,101.
Witner, Eugene P. 3,070,529.
Wolff, Herbert. 3,025,442.
Zumwalt, Lloyd R. 3,039,944.
Civil Defense: *See*—
Inderwiesen, Frank H. 3,035,251.
Laudel, Arthur, Jr. 3,035,181.
Commerce: *See*—
Bowen, Rafael L. 3,066,112.
Carter, Thomas J. 3,028,755.
Chelton, Dudley B. 3,034,319.
Hardy, Richard J., Martin, and Jacobs. 3,054,289.
Kaeser, Robert S. 3,052,064.
Kessler, Karl G., and Schweitzer. 3,046,473.
Koidan, Walter. 3,054,864.
Macpherson, Alan C. 3,030,577.
Marton, Ladislaus L., and Simpson. 3,069,592.
Orem, Theodore H. 3,060,065.
Paquette, Donald R. 3,031,617.
Petree, Ben. 3,033,985.
Plitt, Karl F. 3,028,351.
Saunders, James B. 3,031,914.
Saunders, James B. 3,034,397.
Saunders, James B. 3,043,182.
Selby, Myron C., Behrent, and Ries. 3,041,533.
Taback, Leonard. 3,025,000.
Witt, Richard P. 3,036,222.
Interior: *See*—
Baker, Don H., Jr., and Homme. 3,069,255.
Benson, Homer E., and Field. 3,031,287.
Bowie, Walter S. 3,054,243.
Brandt, Luther W., Stroud, and Deaton. 3,027,750.
Browning, James S., and Clemmons. 3,028,008.
Burner, Eugene. 3,054,295.
Dieter, Wesley E., Golden, and Nazaruk. 3,045,861.
Eddy, James E. 3,069,907.
Mafrica, Leo. 3,022,842.
Phillips, Werner A. 3,028,183.
Shell, Haskiel E. 3,034,685.
Sullivan, Paul M., and Chambers. 3,046,215.
Wong, Morton M., and Kleespies. 3,016,296.
National Aeronautics and Space Administration: *See*—
Angele, Wilhelm, and Horton. 3,069,123.
Childs, James H., and Mickelsen. 3,063,291.
Connors, James F. 3,049,876.
Connors, James F. 3,067,573.
Dimeff, John. 3,059,220.
Escher, William J. D. 3,070,330.
Faget, Maxime A., Bland, and Heberlig. 3,038,175.
Gillespie, Warren, Jr., Hatcher, and Guillotte. 3,038,077.
Hughes, Billy C. 3,070,407.
Meyer, Andre J., Jr., and Calbert. 3,057,597.
Morrell, Gerald. 3,045,424.
Rasquin, John R., and Schwinghamer. 3,041,587.
Stewart, Warner L., and Evans. 3,070,349.
Strass, Herbert K. 3,041,924.
Toll, Thomas A. 3,064,928.
Weber, Richard J. 3,068,658.
Navy: *See*—
Aagard, Roger L. 3,035,441.
Acker, William C. 3,058,013.
Adicoff, Arnold. 3,036,086.
Ainslie, Robert E., Comisarow, Hutchins, and Zinn. 3,064,568.
Ainsworth, John E., Jr. 3,033,924.
Algase, Lawrence L., and Lockwood. 3,067,392.
Allen, Philip J., and Olin. 3,037,204.
Allen, Robert L., and Hart. 3,032,151.
Allgood, Jay R., and Swalley. 3,069,993.
Alpers, Frederick C. 3,018,053.
Alpers, Frederick C. 3,028,555.
Alpert, Louis. 3,038,973.
Alsager, Leslie E. 3,030,910.
Altar, William, and Helstrom. 3,048,813.
Aluise, Robert R., Webb, and Violette. 3,069,026.
Armi, Edgar L., Johnson, Machler, and Polster. 3,062,047.
Atherton, Robert R. 3,033,996.
Averitt, Jules M. 3,052,124.
Aves, William L., Jr. 3,054,694.
Aves, William L., Jr., and Hart. 3,031,331.
Ayre, Vivian E. 3,041,465.
Badders, William C. 3,030,769.
Bailey, Albert D. 3,028,600.
Baker, Kenneth L., Smith, and Pechmann. 3,048,111.
Baller, Maurice H. 3,057,369.
Baller, Maurice H., Bole, Hersh, and Meekins. 3,064,537.
Barghausen, John W. B. 3,025,023.
Barnet, Frederick R., Johnson, and Prosen. 3,026,802.
Barrett, Robert E. 3,064,234.
Bauer, Myron J., Erickson, Kane, Neuman, and Scheurich. 3,052,440.
Bauer, Myron J., Kane, Neuman, and Scheurich. 3,022,031.
Baxby, Jack H. 3,050,429.
Beams, Jesse W. 3,041,482.
Becker, Robert A. 3,026,805.
Bemis, Waldo E. 3,066,632.

United States of America—Navy: *See*—Continued
Benedict, Marcus C. 3,048,973.
Biberman, Lucien M., and Estey. 3,034,405.
Bicking, Howard P. 3,030,583.
Bishop, Bruce E. 3,037,169.
Blaes, Viggo A., and Scheider. 3,029,046.
Bland, Richard E. 3,064,715.
Bockelmann, Victor G. 3,047,261.
Bohl, Leland S., Critchfield, Huch, Ney, and Winckler. 3,063,656.
Bohl, Leland S., Huch, Ney, and Winckler. 3,070,335.
Bowers, Emery J., and Sutherland. 3,041,665.
Bowersett, Charles F. 3,016,828.
Boyce, William C., and Johnson. 3,045,957.
Branagan, Edward F. 3,049,671.
Brockman, Herbert P. 3,049,625.
Brooks, Harvey. 3,024,755.
Brooks, Harvey. 3,025,493.
Broudo, Saul. 3,057,440.
Brouillette, Carl V., Foley, and McKennis. 3,025,159.
Brown, Calvin F., Jackson, and Campbell. 3,045,598.
Brown, Carl W., Shepperd, and Werner. 3,025,519.
Brown, Fred. 3,016,011.
Brown, Howard E. 3,029,603.
Brown, Lawrence B., Jones, and Seeley. 3,015,822.
Buck, Daniel C. 3,064,158.
Buck, Richard S. 3,066,480.
Bunt, Edgar A., and Olsen. 3,045,481.
Burchfield, Harry P., and Gullstrom. 3,054,800.
Burke, Thomas J., and Johnson. 3,049,649.
Burkes, William M., Jr. 3,036,432.
Butler, Clay P. 3,034,355.
Calehuff, Girard L. 3,049,137.
Campbell, Ernest F. 3,045,554.
Campbell, Ernest F. 3,048,087.
Capener, Erwin L., Ordahl, and Shefler. 3,048,076.
Carlberg, Robert E. 3,044,362.
Carlberg, Robert E. 3,054,330.
Carroll, Robert J., and Perry. 3,049,091.
Chaplin, Harvey R., Jr. 3,064,927.
Chase, Walter M., Gustafson, Hall, Kievens, Campbell, and Porciuncula. 3,031,615.
Cheston, Theodore C. 3,045,238.
Christoph, Walter P. 3,024,645.
Christoph, Walter P. 3,054,592.
Chung, Paul K. 3,054,253.
Church, David A., and Schwoebel. 3,040,565.
Ciringione, Joseph L., and Naguszewski. 3,054,284.
Clark, Earl K. 3,070,327.
Clark, Howard G., Plummer, and Hoffmann. 3,067,261.
Cleek, Given W., and Hamilton. 3,022,182.
Coester, Ernest A. 3,063,657.
Comerci, Frank A., Schwartz, and Wilpon. 3,046,358.
Conley, Charles P., and Nellis. 3,049,087.
Cook, Harold G., and Nicholson. 3,052,526.
Cooke, David A. 3,033,148.
Cooke, David A., and Fisher. 3,064,609.
Coulburn, Richard. 3,057,252.
Couch, Dwight E., Shapiro, Brenner, and Connor. 3,046,205.
Cowley, Richard T. 3,064,539.
Creusere, Melville C. 3,065,911.
Crim, Almer D. 3,050,146.
Crystal, Alfred H. 3,064,180.
Culver, Eugene S. 3,019,129.
Dahl, Ernest A., and Humphreys. 3,024,460.
Daly, Thomas A., and Hall. 3,045,624.
Daly, Thomas A., and Kowalyshyn. 3,053,217.
Damon, Glenn H., Ribovich, and Herickes. 3,069,300.
Davenport, Lee L., and Getting. 3,053,478.
Davis, Benjamin L., and Nyberg. 3,019,150.
Davis, Charles W. 3 041,603.
Dell'Aria, Paul S. 3,068,472.
Detwiler, Robert L. 3,044,400.
De Vita, Alphonse J. 3,027,492.
Dickey Paul J. 3,048,085.
Dike, Sheldon H 3,048,791.
Di Toro, Michael J., and Graham. 3,021,479.
Dixon, Edgar O., and MacNeille. 3,065,931.
Domingos, Karl K., Jr., Powell, and Malaspina. 3,015,270.
D'Ooge, Charles L. 3,052,091.
Dow Willard. 3,038,143.
Duncan, Garnett C., Lee, Lucero, and Redding. 3,040,629.
Duncan, Richard L., Miller, Caldwell, Ruegg, and Flock. 3,016,704.
Eck, Robert C. 3,045,627.
Edelman, Gilbert M. 3,065,930.
Edwards, William R., and McMurran. 3,040,727.
Eichmann, Albert C. 3,043,614.
Elmes, William B. 3,038,406.
Elmer, William B. 3,057,314.
Emmerling, Anson A., Kaufman, Osborne, and Steenrod. 3,023,262.
Ernest, Dale S. 3,039,264.
Esch, Fred H. 3,043,644.
Evans, Evan C., and French. 3,035,445.
Fahl, Marcellus W. 3,070,018.
Feemster John R 3,048,109.
Feinstein, Jack. 3,019,024.
Feldman, Edward M., and Gould. 3,046,401.
Feldman, Sidney, Gregory, and Lawes. 3,047,940.

United States of America—Navy: *See*—Continued
Fetter, Neil R. 3,040,055.
Fielding, George H. 3,067,619.
Finnegan, William G., Henry, and Skolnik. 3,055,911.
Finnegan, William G., Smith, and Wiebke. 3,055,780.
Fix, Mary N. 3,024,641.
Fluhr, Frederick R. 3,052,850.
Fluhr, Frederick R., and McLaughlin. 3,032,609.
Folsom, Theodore R., and Isaacs. 3,047,721.
Foote, Vernon S., Jr. 3,017,766.
Foss, Rene N. 3,038,112.
Francois, Robert E. 3,048,814.
Freitag, Walter O., and Evers. 3,032,575.
Fried, Walter. 3,047,964.
Friedenthal, Kenneth J. 3,028,077.
Froehlich, Harold E. 3,041,013.
Froehlich, Harold E. 3,041,019.
Fuller, Isaac W., Jr., and Davis. 3,035,264.
Gaerttner, Erwin R., and Heaton. 3,054,099.
Gardiner, Paul C. 3,021,806.
Gardiner, Paul C. 3,024,754.
Gardiner, Paul C., Jewett, and Broomell. 3,022,760.
Gardiner, Paul C., Jewett, and Broomell. 3,064,233.
Gauvin, Roland J. 3,040,116.
Geary, Joseph F., Jr. 3,048,977.
Genovese, Frank C., Jr. 3,049,619.
Gerr, Raymond. 3,041,541.
Gettys, Charles B., and Woonard. 3,022,486.
Gevantman, Lewis H., and Pestaner. 3,031,575.
Gewirtz, Arnold. 3,025,467.
Gey, William A. 3,067,074.
Geyger, William A. 3 042 306.
Giloth, Paul K. 3,034,228.
Ginther, Robert J. 3,032,428.
Glass, Cecil A. 3,035,796.
Gleason, Joseph P. 3,021,522.
Gondek, John T. 3,037,427.
Goodier, George N., and Wuster. 3,056,078.
Goodman, Alex, and Gentler. 3,052,120.
Grahl, Melvin F., and Hartin. 3,056,089.
Grantham, Rodney E. 3,025,523.
Grantham, Rodney E., and Hardis. 3,052,032.
Grantham, Rodney E., Raff, Hoffman, Pulliam, and Yaffee. 3,034,115.
Gray, Reuben F. 3,044,464.
Gregowski, Joel H., and Walters. 3,063,422.
Grenstad, Arvid, Hereth, Morris, and Sherman. 3,045,-552.
Grillo, Salvatore J., and Walker. 3,039,363.
Grimes, David D. 3,047,253.
Groesbeck, William A. 3 029,639.
Guarino, Louis S., and Corson. 3,070,793.
Guarino, Louis S., and Ogden. 3,048 836.
Guarino, Louis S., and Vaccaro. 3,059,233.
Guarino, Louis S., and Welk. 3,050,710.
Guerth, Fritz A. 3,024,449.
Guerth, Fritz A. 3,039,002.
Guerth, Fritz A. 3,057,953.
Gustafson, Robert E. 3,052,123.
Hakkarinen, William. 3,020,963.
Hallberg, Frederick C. 3,053,995.
Hallow, William C., Lion, Kranc, Custis, and Scutti. 3,032,301.
Halsey, Donald J., and Sells. 3,067,973.
Hammar, Gustaf. 3,067,330.
Hand, George C., Jr., and Kubanoff. 3,040,306.
Hanzel, Joseph W. 3,051,991.
Hardesty, Thomas K. C. 3,049,601.
Harris, Luther G. 3,044,058.
Hart, Robert H., Platt, Thomas, and Rhinehart. 3,059,319.
Hawley, Wilbur W., and Haykin. 3,063,375.
Heacock, William J., Jr. 3,019 392.
Heacock, William J., Jr. 3,024,999.
Heald, Ervin R., and Abzug. 3,062,048.
Heberling, Emory D. 3,052,851.
Heberling, Emory D. 3,052,875.
Heinrich, Chester J., Kornylak, and Toscano. 3,020,993.
Hendershott, William B. 3,030,111.
Henderson, Joseph E., Hafstad, and Roberts. 3,064,-578.
Henning, Frederick W., and Gerardi. 3,030,774.
Henry, James W. 3 052,744.
Henry, Ronald A., and Tait. 3,070,473.
Hereth, Ralph F. 3,065,673.
Hereth, Ralph F., and Butterfield. 3,065,674.
Hereth, Ralph F., and Morris. 3,049,976.
Herring, David L. 3,064,055.
Herzog, Stephen H. 3,020,710.
Herzog, Stephen H. 3,048,970.
Herzog, Stephen H. 3 052,090.
Hicks, Harry E. Jr. 3,023,662.
Hilding, John R. 3,045,190.
Hilding, John R. 3,067,527.
Hilliard, Edward J., Jr. 3,028,554.
Hilliard, Robert C. 3,036,983.
Himmelberger, Harold. 3,066,947.
Hisserich, Charles A., and Reed. 3,031,644.
Hollis, Thomas W., Jr. 3,024,461.
Holmes, Elwood A. 3,048,136.
Holtz, Walter E. 3,017,835.
Hopkins, John J. 3,027 842.
Hopkins, John J. 3,053,928.

United States of America—Navy : *See*—Continued
Horton, Richard H. 3,044,657.
Houle, Omer. 3,054,423.
Huch, William F. 3,023,982.
Huch, William F., and Ney. 3,063,296.
Huch, William F., Ney, and Winckler. 3,047,252.
Hultberg, Carl A. 3,068,423.
Humphreys, Curtis J. 3,042,829.
Huntoon, Robert D. W. 3,069,113.
Hurd, Ray M. 3,050,665.
Hurd, Ray M., and Kemp. 3,065,365.
Hutchins, Blanchard S. 3,047,258.
Jankowsky, Edward J., Beck, and Williams. 3,034,340.
Jarrell, Martin E. 3,063,660.
Jech, Robert W., and Weber. 3,052,538.
Jensen, Garold K., and McGeogh. 3,054,965.
Jewett, John E., Moothart, Morrison, and Snow. 3,015,800.
Johnson, Miles C., and Burke. 3,046,524.
Johnson, Wayne W., Kimball, and Douglass. 3,042,497.
Johnstone, Charles A., Hersh, Meekins, and Shiller. 3,068,755.
Jones, Frank E. 3,058,079.
Jones, Leonard S., Kowalyshyn, and Stene. 3,033,147.
Kadel, Gerald H. 3,015,947.
Kaltenbacher, Dominic M. 3,020,404.
Kane, Garold A. 3,055,180.
Kane, Garold A., and Wilson. 3,031,848.
Kaplan, Lloyd A. 3,062,885.
Karnow, Paul. 3,036,315.
Keahey, Sammie G. 3,022,027.
Kearns, John P. 3,015,948.
Keirnan, Floyd J. 3,067,391.
Kern, Dale B., and Conger. 3,017,587.
Ketler, Albert E., Jr. 3,027,971.
Kieser, Robert J. 3,054,982.
King, Donald D. 3,025,462.
Kittleman, Robert H. 3,063,396.
Kittleman, Robert H. 3,067,710.
Kittredge, George W., and Heronemus. 3,045,622.
Klein, Gerald L., and Ingar. 3,046,477.
Klopp, James W., and Smith. 3,043,263.
Knecht, Forrest E., Schwartz, Nicholas, and Baker. 3,059,894.
Kohl, Walter H. 3,049,792.
Kolin, Alexander. 3,040,571.
Komarmy, Julius M. 3,041,361.
Komarmy, Julius M., and Broach. 3,066,161.
Konigsberg, Robert L. 3,034,044.
Korff, Marvin, and Scott. 3,021,486.
Korff, Marvin, and Scott. 3,050,686.
Koup, Alfred L. 3,034,748.
Kowalyshyn, Stephen, Daly, and Cooke. 3,045,626.
Kulberg, John F., and Bryant. 3,038,224.
Ladany, Ivan, and Kearney. 3,042,884.
Laing, Joseph T., and Nelkin. 3,041,451.
Lapp, Roger H. 3,052,303.
Largen, Harold F., and Weir. 3,026,662.
Latham, William S., and Saars. 3,015,810.
Lawrence, Robert E. 3,016,798.
Lawson, Herbert E. 3,035,945.
Leaman, Audley B., and Giladett. 3,064,538.
Leatherman, Martin. 3,024,263.
Leatherman, Martin. 3,047,604.
Lederer, Paul S. 3,034,332.
Lee, Richard C., Cox, and Connelly. 3,037,699.
Lehmann, Emil W., and Finlon. 3,041,547.
Lehmann, Emil W., and Finlon. 3,065,403.
Leuze, William F. 3,044,184.
Liebermann, Leonard N. 3,046,780.
Lofthus, Leon J. 3,039,391.
Losher, Morton. 3,066,251.
Maas, Raymond W. 3,069,114.
Maas, Raymond W., and Thorness. 3,018,069.
Maas, Raymond W., and Thorness. 3,037,100.
Mackie, William L. 3,045,958.
Magyar, Nickolaus W. 3,029,735.
Marston, Arthur E., and Kaiser. 3,055,003.
Mathelsel, Rudolph A., Matson, Johnston, and Fields. 3,069,028.
Matthews, Lyle E. 3,044,292.
McClelland, Harold M. 3,040,445.
McCollum, Sterling A. 3,022,630.
McCormick, Barnes W., Eisenhuth, and Wislicenus. 3,050,024.
McCurdy, Robert J., and Matonak. 3,052,849.
McGrew, Frank C. 3,034,937.
McVey, Eugene S. 3,025,414.
McVey, Eugene S. 3,046,488.
Medley, Francis M. 3,054,963.
Melone, Drury P. 3,034,614.
Mendelson, Emanuel S. 3,043,292.
Meneley, Carl A. 3,064,255.
Menzel, Wolfgang A. 3,016,736.
Merkin, Eugene. 3,017,891.
Milani, Virgil L., McGill, and Starr. 3,049,043.
Miller, Ansel D. 3,049,309.
Miller, Herbert J., Behles, and Clark. 3,054,633.
Mitchell, Drury K. 3,017,053.
Moeller, Adolph F. 3,054,123.
Moore, Thomas M., and Arnold. 3,021,438.
Morley, Philip W., Werner, and Mitchell. 3,038,614.
United States of America—Navy : *See*—Continued
Moser, Paul M. 3,024,410.
Mullison, Charles W. 3,036,852.
Murphy, William M., Jr. 3,031,609.
Nadir, Mark T. 3,017,537.
Neuman, Milton C. 3,063,428.
Neuman, Milton C. 3,068,807.
Nicholas, John F., and Winchester. 3,028,540.
Niederer, Otto C. 3,034,227.
Noyes, William R., and Eagleson. 3,038,382.
O'Berry, William A. 3,018,385.
Okress, Ernest C., and Werner. 3,018,453.
O'Meara, Thomas R., and Sydnor. 3,039,060.
Orlin, William J. 3,043,102.
Ostdiek, Francis R. 3,021,167.
Ousley, James A. 3,052,784.
Padberg, Louis R., Jr., Parker, Hayes, and Papinezu. 3,066,278.
Paley, Warren D. 3,022,732.
Parssinen, Edwin J., Rathbun, and Woollett. 3,054,084.
Pattison, John N., Vance, Hillenbrand, and Lanman. 3,038,954.
Patterson, Raymond T. 3,069,112.
Paul, Edward, Jr. 3,048,738.
Paul, Edward, Jr. 3,048,739.
Pence, Elbert A. 3,024,440.
Persechino, Mario A. 3,017,367.
Petritz, Richard L., Manley, and Varela. 3,067,283.
Phillips, Clem H., and Scott. 3,054,927.
Phillips, Paul C. 3,017,580.
Pietrangeli, Gene J. 3,023,571.
Pinnes, Robert W. 3,020,711.
Pitts, Joseph W. 3,057,381.
Plotkin, Gerald N. 3,015,820.
Plumley, Harold J. 3,054,349.
Plummer, Charles W. 3,049,570.
Porter, Samuel J., and Wilson. 3,028,808.
Potts, James H., Jr. 3,015,269.
Pughe, Earle W., Jr., and Connelly. 3,036,772.
Pummer, Walter J., and Wall. 3,046,313.
Rabinow, Jacob, and Skramstad. 3,066,895.
Rae, Randolph S. 3,027,711.
Rae, Randolph S. 3,027,712.
Rae, Randolph S. 3,045,596.
Redfern, John T., and Coleman. 3,017,574.
Reed, Herbert B., Jr., and Stimler. 3,023,397.
Reynolds, Zack D. 3,068,454.
Riblet, Henry B. 3,054,121.
Rich, Theodore A. 3,067,614.
Richardson, Alfred W. 3,063,010.
Richardson, Donald E. 3 052,803.
Riley, Robert L. 3,049,624.
Ringwalt, David L. 3,028,089.
Robinson, Ralph O., Jr. 3,029,426.
Rochelle, Robert W. 3,042,810.
Riordan, Hugh E. 3,049,189.
Roman, Saul. 3,029,709.
Rosa, Richard J. 3,015,250.
Ross, Daniel W. 3,031,661.
Rovin, Herman. 3,052,162.
Rumpp, Norman L., Glass, and Chung. 3,054,353.
Ryan, Charles C., Jr. 3,044,055.
Ryan, John W. 3,024,662.
Ryden, Carl V., Smith, and Matthews. 3,040,517.
Sacks, Jacob M. 3,028,507.
Sanderson, Walter H., Jr. 3,023,998.
Sardelli, Wilfred G. 3,037,298.
Sawyer, Harold E. 3,033,157.
Sawyer, Harold E. 3,053,220.
Scarborough, O D. 3,035,830.
Schaefer, Donald L., and White. 3,024,382.
Scharp, Glenn A. 3,022,505.
Scheurich, John S. 3,024,769.
Schmitt, Otto H. 3,030,502.
Schohan, George. 3,041,520.
Schonstedt, Erick O. 3,050,679.
Schwarzbach, Frederick. 3,020,799.
Seeley, Elwin W., and Moncrieff. 3,069,680.
Seeley, Ralph M., Jr. 3,069,637.
Shapiro, Gustave. 3,045,202.
Shen, James J. 3,062,973.
Siegel, Moses, and Auer. 3,053,479.
Sieve, Frank W., Olenick, and Fowler. 3,040,628.
Sieve, Frank W., Olenick, and Fowler. 3,041,017.
Sikora, Stephen J. 3,033,495.
Silverman, Bernard R., Carroll, Simkins, Di Geambeardino, and Jones. 3,068,500.
Singer, Edward N., and Giordano. 3,069,569.
Skramstad, Harold K., Raudenbush, and Hart. 3,050,690.
Sloan, David H. 3,049,883.
Smith, Charles H., Jr. 3,045,625.
Smith, Homer E. 3,029,703.
Somerville, James. 3,062,171.
Somerville, James, Yaccarino, and Starry. 3,021,759.
Sorrell, Ray T. 3,018,752.
Squires, Paul C. 3,034,806.
Squires, Walter G., Jr. 3,035,285.
Sreb, Jules H. 3,064,194.
Staples, John P. 3,049,632.
Stedman, Cecil K. 3,021,807.

United States of America—Navy: *See*—Continued
Stehle, Norman E. 3,062,564.
Stillman, Stephen L., Jr. 3,027,539.
Stoehr, Donald. 3,055,300.
Stone, Robert R., Jr. 3,049,674.
Stresau, Richard H. F., and Derwin. 3,045,524.
Stroud, John M., Webster, Steiner, and Sessions. 3,041,417.
Supernaw, Dwight L. 3,015,297.
Suter, Henry. 3,039,355.
Swaim, Frank H., and Oyhus. 3,034,434.
Taslitt, Norman, and Byrd. 3,052,205.
Tatnall, George J., and Scarcelli. 3,047,259.
Tesi, Giorgio, and Douglas. 3,052,720.
Tesi, Giorgio, and Douglas. 3,065,266.
Thompson, Arthur W. 3,036,219.
Thurston, Edward G., and Kuester. 3,048,815.
Tollefson, Robert D., and Wilkerson. 3,038,122.
Tomolonius, William A. 3,031,844.
Turner, William C., and Riggs. 3,060,381.
Uhrig, Edward O., and Fox. 3,068,460.
Vaccaro, Frank E., and Arms. 3,049,684.
Vaccaro, Joseph, Jr. 3,036,477.
Vallese, Lucio M. 3,065,360.
Van Dolah, Robert W., and Joffe. 3,025,318.
Van Dyke, Karl S. 3,016,513.
Van Inwagen, Charles, Jr. 3,016,791.
Van Liew, Eugene. 3,069,573.
Varadi, Louis E. 3,043,560.
Venn, Douglas A. 3,065,430.
Viernstein, Lawrence J. 3,058,051.
Vinal, Francis E., and Brown. 3,038,860.
Wagoner, Billy J. 3,054,870.
Walker, Harold R. 3,016,716.
Walker, Harold R. 3,040,205.
Wall, Leo A., and Pummer. 3,033,905.
Walters Francis M. III. 3,052,860.
Office of Civil Defense: *See*—
Inderwiesen, Frank H. 3,064,190.
Warren, James R. 3,020 006.
Warren, Robert E. 3,040,598.
Washburn, David A. 3,024,607.
Watson, Robert B., and Arton. 3,025,517.
Weinhardt, Robert A., and Barnes. 3,016,588.
Welanetz, Ludolph F., Johnston, and Morton. 3,034,351.
Wells, Bruce C., and Mahler. 3,054,297.
Werle, Otto P. 3,017,790.
Werner, Raymond R., and Engelberg. 3,024,925.
Wesley, Edward J. 3,011,339.
West. Stanley E. 3,048,110.
Westerfield, Everett C. 3,046,545.
Wexler, Arnold, Krinsky, and Garfinkel. 3,022,667.
Wieder, Herman H. 3,032,706.
Wilcoxon, Kenneth H. 3,039,078.
Wilkes, Gilbert. 3,058,028.
Williams, Dale D. 3,025.142.
Williams, Ira E. 3,067,884.
Wilson, Richard C. 3,064,963.
Windels, Richard. 3,052,881.
Woodworth, William P. 3,041,470.
Woolley, Francis L. 3,016,628.
Woolston, Daniel D., Miraldi, Manning, and Aucremanne. 3,070,773.
Wyatt, Theodore. 3,053,481.
Yahnke, Robert L. 3,061,768.
Yalom, Isador D., and Jerome. 3,055,960.
Young, James A., and Lucas. 3,069,831.
Youngren. Fred R., Fossier, and Howe. 3,063,654.
Zisman, William A., and Fitzsimmons. 3,040,662.
Zrubek, William E. 3,018,384.
War: *See*—
Englehart, Alva F., and Gunther. 3,031,962.
Thwaites, Herman L., and Davis. 3,052,187.
Thwaites, Herman L., and Matheson. 3,052,186.
U.S. Pallet Co., Inc.: *See*—
Ward, Hugh J., Jr. 3,059,887.
U.S. Pharmaceutical Inc.: *See*—
Mace, Robert C., Moore, and Mehl. 3,057,781.
U.S. Photo Supply Co., Inc.: *See*—
Freed, Sidney. 3,026,782.
United States Radium Corp.: *See*—
MacHutchin, John G., Buck, and Flynn. 3,038,271.
U.S. Rivet Machine Corp.: *See*—
May. Thomas L., and Zankl. 3,043,168.
Zankl, Robert H. 3,036,727.
United States Rubber Co.: *See*—
Anderson, Everett V. 3,038,949.
Anspon, Harry D. 3,038,946.
Anspon. Harry D. 3,041,379.
Bashore. Don M. 3,042,947.
Batts, Harvey J. 3,032,519.
Bawn, Carl V., and Hunter. 3,015,641.
Bawn, Carl V., and Hunter. 3,015,642.
Bayerl, Joseph J. 3,041,091.
Bentele. Gerard O., and McClure. 3,048,514.
Bethe, Eugene J., and Gunter. 3,032,828.
Bethe, Eugene J., and Haggerty. 3,033,804.
Boggs, Fitzhugh W. 3,051,599.
Borr, Mitchell, and MacPhee. 3,018,256.
Brooks, Marvin C., and Prager. 3,028,360.
Clarkson, Robert J. 3,058,681.
Cranston Lawrence. 3,051,512.

United States Rubber Co.: *See*—Continued
Cuthbertson George R., and Engstrom. 3,048,211.
Daly, Lawrence E. 3,018,268.
Daly, Lawrence E. 3,024,211.
Danielson, Arthur C. 3,018,207.
Danielson Arthur C. 3,036,948.
Edgerly, Gerald O., and Eccleston. 3,030,252.
Erickson, Edward B., Jacobsen, Giusti, Merrill, and Smith. 3,053,400.
Fagot Godfrey E., and Vance. 3,051,192.
Ferrell, Wesley, Fournier, and Olson. 3,051,995.
Foster, Boutwell H. 3,061,839.
Foster, Boutwell H., and Haddad. 3,015,149.
Foster, Frederick J. 3,042,643.
Grady, Charles B., Jr. 3,024,358.
Grant, Arthur W., and Martin. 3,067,506.
Haddad, Nassib. 3,015,148.
Hageman, Howard A. 3,035,062.
Hageman, Howard A. 3,035,094.
Hageman, Howard A. 3,043,848.
Hageman, Howard A. 3,045,052.
Hartman, Eugene H. 3,023,460.
Hartman, Paul F. 3,028,425.
Hartman, Paul F. 3,041,383.
Haxo, Henry E., Barton, and Schaffner. 3,018,812.
Henry, Nelson B. 3,042,327.
Hill, Pedro A. 3,043,782.
Howland, Louis H., and Chambers. 3,049,501.
Howland, Louis H., and Chambers. 3,049,502.
Howland, Louis H., Chambers, and Aleksa. 3,049,500.
Howland, Louis H., and Dannals. 3,056,758.
Hunter, Byron A. 3,052,642.
Jonson, Carl A., McColm, and Ferrell. 3,062,044.
Jurgeleit Herbert F. 3,050,778.
Kienle, Robert N., and Szura. 3,042,545.
Ladd, Elbert C. 3,053,851.
Ladd, Elbert C. 3,066,146.
Ladd, Elbert C., and Hovey. 3,048,613.
Lasky, Jack S. 3,054,754.
Lehti. Henry J., Merck, and Rhodes. 3,030,623.
Linhorst, Erwin F. 3,046,600.
Mankowich, Ivan, and Chartier. 3,053,791.
Mankowich, Ivan, Chartier, and Chartier. 3,042,634.
Marous, Leonard F., and McCleary. 3,022,282.
Martin, Frank S., Kohrn, and Hicks. 3,041,220.
Martin, Frank S., and Sillcox. 3,060,512.
McCord, Georgie P. 3,032,091.
Merck, William A., and Rhodes. 3,038,523.
Merck, William A., Olson, and Rhodes. 3,029,476.
Merz, Paul L. 3,055,940.
Mika, Henry S., Stiegler, Kehoe, and Mehlenbacher. 3,062,058.
Moore, Ralph F., Blumenauer, and Lipski. 3,029,469.
Myers, Harold D., and Nolan. 3,054,691.
Ostby, Christian A., Jr. 3,026,225.
Reinowski, Leonard E., Hindin, and Seeley. 3,042,098.
Sargent, Herbert. 3,068,241.
Schaffner, Irwin J. 3,038,009.
Schaffner. Irwin J. 3,051,743.
Shichman, Daniel. 3,053,619.
Slade, Duncan E. 3,026,635.
Smith, Homer P., and Wilkinson. 3,025,286.
Smith, Hubert T., and Lash. 3,067,466.
Smith, Wendell V. 3,053,742.
Smith, Wendell V. 3,061,531.
Stewart, Hugh W. 3,055,941.
Sundholm, Norman K., Hubbard, and Riddell. 3,029,138.
Tawney, Pliny O. 3,021,353.
Tawney, Plino O. 3,023,272.
Tawney, Pliny O. 3,035,027.
Tawney, Pliny O. 3,038,010.
Tawney, Pliny O. 3,038,011.
Tawney, Pliny O. 3,038,902.
Tawney, Pliny O. 3,040,105.
Tawney, Pliny O. 3,050,565.
Tawney, Pliny O., and Stewart. 3,033,883.
Tawney, Pliny O., and Schaffner. 3,027,403.
Werner, Alfred F., and Stepien, George, Jr. 3,018,208.
White, Woodrow W. 3,042,633.
Wood, Paul R. 3,042,635.
U.S. Rubber Reclaiming Co., Inc.: *See*—
Peterson, Chester H. 3,051,990.
United States Smelting Refining and Mining Co.: *See*—
Nelson, Archie A., and Scholl. 3,041,050.
United States Steel Corp.: *See*—
Abarotin, Eugene V., and Colijn. 3,033,389.
Agarwal, Jagdish C., Sciulli, and Stephenson. 3,062,640.
Anderson, Oscar B., and Mundell. 3,055,316.
Andrews, Steve, and Spraitzar. 3,020,878.
Artman, Clayton E. 3,052,423.
Bain, John W., and Sumsion. 3,015,357.
Baldi, Dewey J. 3,043,308.
Ballentine, William L., Jr., and Lottes. 3,016,875.
Ballentine, William L., Jr., and Molden. 3,020,867.
Bartholomew, George A. 3,019,126.
Beck, Eugene P. 3,056,478.
Bick, Edward H. 3,064,843.
Bole, Claude E., and Gilbert. 3,069,347.
Bosley, John J., and Stephenson. 3,052,534.
Bowman, Walter A. 3,015,614.
Brinker, Harry F., and Clark. 3,038,394.
Brouse, Shirley B. 3,037,534.
Brown, John E., and Osterberg. 3,058,270.

United States Steel Corp.: *See*—Continued
Butscher, Frank W. 3,052,396.
Cadman, Morgan T. 3,061,417.
Callighan, Robert H., and Wilt. 3,067,205.
Carter, Daniel T., and Rendel. 3,034,926.
Cauley, Thomas K. 3,020,472.
Cauley, Thomas K. 3,020,473.
Cauley, Thomas K., and El Wazlrl. 3,055,243.
Cerwin, Frank J., and Scott. 3,018,700.
Chacharis, Peter. 3,051,330.
Chenault, Roy L. 3,042,557.
Clifford, John E., and Faust. 3,051,638.
Cochrane, Donald P. 3,056,531.
Cohn, Werner C. 3,043,578.
Cooley, David N. 3,052,143.
Cooley, David N. 3,069,949.
Crombie, John N., and Hudson. 3,030,240.
Davis, Floyd E. 3,040,921.
Davis, Floyd E., and Kranz. 3,054,497.
Davis, William L. Jr. 3,037,848.
Douty, Donald L. 3,037,620.
Douty, Donald L. 3,057,472.
Dunlop, George E. 3,018,663.
Ehrhart, William E. 3,019,058.
Fader, William L. 3,066,408.
Faunce, John H. 3,028,820.
Fawcett, Paul W. 3,051,077.
Feinman, Jerome. 3,021,208.
Feinman, Jerome. 3,036,440.
Fenner, James M. 3,032,963.
Ficker, Charles L. 3,061,200.
Fields, Marvin C., and Rice. 3,054,726.
Fisher, Robert M., and Holliday. 3,033,984.
Fons, Leland S., and Franks. 3,064,828.
Frankenthal, Robert P. 3,062,725.
Frey, John A., and Henrickson. 3,035,826.
Gilbert Gerald. 3,025,304.
Gilbert, Gerald, and Stickel. 3,070,517.
Griffiths, Ronald E., and Harris. 3,029,506.
Griffiths, Ronald E., and Harris. 3,030,706.
Griffiths, Ronald E., and Wald. 3,055,491.
Grimm, John J., Jr., and Lucht. 3,035,403.
Hafner, William F., Leach, and Smeal. 3,046,217.
Hawthorne, John O., and Morgan. 3,061,638.
Hawthorne, John O., and Wilt. 3 023 199.
Hayden, Albert P., and Mason. 3,069,491.
Heger, James J. 3,062,863.
Holliday, Jerome E. 3,042,801.
Holman, Robert W. 3,028,468.
Holman, Robert W. 3,029,373.
Horvath, Charles, and Lukasik. 3,029,022.
Huang, Paul C. 3,049,441.
Hudak, Stephen B., Lavelle, and Rickett. 3,062,693.
Huet, Raymond J. 3,021,941.
Jaruzelski, John J. 3,048,600.
Jasperson, William R. 3,061,534.
Johns, William H., and Stoeckel. 3,021,872.
Jordan, John. 3,026,762.
Kansh, Ralph R. and Vagli. 3,036,376.
Kegg, Vernon J. 3,061,226.
Kelso, John W. 3,042,429.
Kennedy, Frank. 3,057,307.
Kirchner, George J., and Wales. 3,052,338.
Kneell, Oscar F., and Lundskog. 3,015,507.
Kochaver, Theodore J. 3,052,285.
Kortenhoven, Peter. 3,064,467.
Lapple, Walter C. 3,031,080.
Larson, Ernest D., and Roden. 3,058,590.
Linehan, John J., and Schultz. 3,057,535.
Linehan, John J., and Tetens. 3,052,394.
Link, Harold S., and Schultz. 3,017,689.
Ludwig, Norman C. 3,027,099.
Lundskog, Sten P. 3,055,696.
Lundskog, Sten P. 3,055,697.
Manganello, Samuel J., and Pakkala. 3,062,692.
Manganello, Samuel J., and Pakkala. 3,065,069.
Manganello, Samuel J., and Steiner. 3,038,797.
Marburg, Edgar. 3,015,139.
Marburg, Edgar. 3,022 551.
Marburg, Edgar. 3,026,585.
Martin, Paul J., and Moehl. 3,061,295.
McLain, William R. 3,032,327.
McNamara, James E. 3,049,004.
Miller, Raleigh A. 3,058,856.
Milnes, James A. 3,061,732.
Mohnkern, Gerald E., and Stone. 3,038,251.
Molinaro, Gregory R. 3,043,013.
Monaghan, John T. 3,043,677.
Morrow, Harry C. 3 029,655.
Morrow, Harry C. 3,032,248.
Morrow, Harry C. 3,043,119.
Muddiman, Earll R. 3,031,009.
Nichol, Wilbert G. 3,022 750
Nichols, Richard A. 3,026,606.
Nowak, Rudolf. 3,056,657.
Nystrom, Carl M. 3,037,889.
O'Brien John F. 3,047,916.
Palasvirta, Ossi E., and Sundin. **3,024,910.**
Penitz, Ferdinand J. 3,062,472.
Pettigrew, Charles P. 3,051,407.
Pierce, David W., and Wexler. 3,050,857.
Prellwitz, Samuel B. 3,044,729.
United States Steel Corp.: *See*—Continued
Ray, William H. 3,020,078.
Redman, William J. 3,051,348.
Reed, Thomas F. 3,020,150.
Reed, Thomas F. 3,050,299.
Reich, Harold A. 3,045,616.
Rice, Robert D. 3,024,090.
Riley, Russell. 3,054,514.
Roberts, William L. 3,044,330.
Sage, John G. 3,020,628.
Sage, John G. 3,020,629.
Schultz, Robert A. 3,049,769.
Schultz, William H. 3,061,300.
Schultz, William H. 3,069,760.
Schwab, Alvin R. 3,041,702.
Scott, James A. 3,056,734.
Sheppard, Chester S., and Wilt. 3,041,348.
Slamar, Frank. 3,065,415.
Slamar, Frank, and Teplitz. 3,019,577.
Smith, Alfred R. 3,026,626.
Smith, Peter M., and Wrhen. **3,068,963.**
Staison, Stanley L. 3,044,098.
Stapleton, James M. 3,057,715.
Teplitz, Alfred. 3,021,086.
Teplitz, Alfred. 3,021,959.
Wales, Charles C. 3,043,170.
Wales, Charles C. 3,050,022.
Yevick, George. 3,018,657.
Zitney, John M., Jr. 3,044,134.
United States Stoneware Co., The: *See*—
Eckert, John S. 3,060,503.
Eckert, John S. 3,064 954.
Gluck, David G. 3,067,078.
Lucas, Joseph M. 3,033,772.
Siddall, Don F. 3,048,557.
United States Testing Co., Inc.: *See*—
Huband, Leonard W., and Hafner. 3,039,058.
Kirk, George A. 3,039,003.
U.S. Tile-Service Corp.: *See*—
Stahl, Curt. 3,070,655.
U.S. Tool Co., Inc.: *See*—
Grimm, Eric. 3,038,646.
Grimm, Eric. 3,038,647.
U.S. Vitamin & Pharmaceutical Corp.: *See*—
Freedman, Louis, Merritt, and Eigen. **3,068,148.**
Freedman, Louis, and Shapiro. 3,027,301.
Geiger, Karl, Shapiro, and Freedman. 3,059,029.
Shapiro, Seymour L., and Freedman. 3,020,285.
Shapiro, Seymour L., and Freedman. 3,046,281.
Shapiro, Seymour L., and Freedman. 3,051,709.
Shapiro, Seymour L., Freedman, and Soloway. 3,051,705.
Shapiro, Seymour L., and Freedman. 3,055,906.
Shapiro, Seymour L., Freedman, and Rose. 3,054,794.
Shapiro, Seymour L., Freedman, and Soloway. 3,069,-315.
Shapiro, Seymour L., and Freedman. 3,057,780.
Shapiro, Seymour L., Freedman, and Weinberg. 3,056,-797.
Shapiro, Seymour L., and Freedman. 3,062,819.
Shapiro, Seymour L., and Freedman. 3,068,235.
Unitone (Acoustic Tiles) Ltd.: *See*—
Wright, George C. 3,058,171.
Unitronics Corp.: *See*—
Katzenstein, Henry S., and Parzen. 3,056,854.
Universal Air Lift, Inc.: *See*—
Moody, George W. 3,063 704.
Universal American Corp.: *See*—
Nichols, Walter S. 3,046,035.
Universal Bearing Co.: *See*—
Heim, Lewis R. 3,027,590.
Heim, Lewis R. 3,049.789.
Universal Business Machines, Inc.: *See*—
Swartz, Richard L. 3,021,509.
Universal Button Co.: *See*—
Rowles, William T. 3,016,593.
Schmidt, Erich A. 3,065,470.
Universal Controls, Inc.: *See*—
Antonoff, Walter. 3,018,868.
Antonoff, Walter, and Grant. 3,037,604.
De Claris, Nicholas, Jelatus, and Silverstein. **3,031,076.**
Erlichman, Irving. 3,033,442.
Grant, Gardner L., and Hosken. 3,018 038.
Grant, Gardner L., and Hosken. 3,018,469.
Powers, Howard A. 3,024,970.
Rogal, Edward. 3,059,112.
Rogal, Edward. 3,061,819.
Rosapepe, Frank P. 3,022,938.
Rosapepe, Frank P. 3,070,293.
Universal Corrugated Box Machinery Corp.: *See*—
Lopez, John. 3,034,784.
Lopez, John P. 3,062,179.
Universal-Cyclops Steel Corp.: *See*—
Cortes, Francis R. 3,033,769.
Harpster, Norman R. 3,047,382.
Weingart, Richard I. N. 3 064,785.
Wiedt, Karl W., Jr. 3,068,564.
Universal Detergents, Inc.: *See*—
Greene, David H. 3,042,623.
Universal Drilling Co. Inc.: *See*—
Roussel, Louis J. 3,031,167.
Universal Electric Co.: *See*—
Hoddy, George W., G. L., and R. A. 3,063,761.

Universal Engineering Co.: *See*—
Koch, Roland G. 3,024,030.
Universal Instruments Corp.: *See*—
Wilson, James C. 3,068,577.
Universal Machine Co., Inc.: *See*—
Carter, Paul H., and Morse. 3,058,617.
Morse, Raymond L. 3,028,029.
West, John B. 3,059,756.
Universal Magnetic Lock, Inc.: *See*—
Budreck, Frances. 3,041,697.
Universal Mfg. Co., Inc.: *See*—
Horowitz, Isadore. 3,017,198.
Horowitz, Isadore. 3,043,590.
Universal Match Corp.: *See*—
Gygax, Ernest F. 3,021,775.
Olander, Donald E. 3,028,229.
Simjian, Luther G. 3,036,297.
Simjian, Luther G. 3,038,157.
Simjian, Luther G. 3,039,582.
Simjian, Luther G. 3,042,919.
Simjian, Luther G. 3,042,920.
Simjian, Luther G. 3,049,312.
Simjian, Luther G. 3,056,132.
Simjian, Luther G. 3,056,133.
Simjian, Luther G. 3,061,143.
Simjian, Luther G. 3,061,553.
Thorp, James T., Jr. 3,022,793.
Thorp, James T., Jr. 3 027,903.
Universal Multi-Lingual Enlightenment, Inc.: *See*—
Pimentel, Morris. 3,052,043.
Universal Oil Products Co.: *See*—
Arrigo, Joseph T. 3,054,824.
Arrigo, Joseph T. 3,057,929.
Bloch, Herman S. 3,017,400.
Bloch, Herman S. 3,022,340.
Bloch, Herman S. 3,028,419.
Bloch, Herman S. 3,043,771.
Bloch, Herman S. 3,050,375.
Bloch, Herman S. 3,054,807.
Bloch, Herman S. 3,062,860.
Boyd, David M., Jr. 3,056,282.
Brown, Kenneth M. 3,028,202.
Brown, Kenneth M., Gleim, and Urban. 3,029,201.
Brown, Thomas F., and Mathews. 3,050,464.
Carson, Don B., and Purse. 3,040,777.
Chenicek, Joseph A. 3,031,487.
Chenicek, Joseph A. 3,063,820.
Chenicek, Joseph A., and Cox. 3,017,443.
Chenicek, Joseph A., and Rosenwald. 3,053,682.
Cyba, Henry A. 3,018,173.
Cyba, Henry A. 3,043,789.
Cyba, Henryk A. 3,017,357.
Cyba, Henryk A. 3,017,360.
Cyba, Henryk A. 3,017,362.
Cyba Henryk A. 3,063,962.
De Rosset, Armand J. 3,053,612.
Donaldson, George R., and Haensel. 3,054,833.
Gatsis, John G. 3,036,968.
Geiser, Edward M. 3,037,875.
Geiser, Edward M. 3,037,970.
Geiser, Edward M. 3,068,209.
Gerald, Curtis F. 3,022,934.
Gerhold, Clarence G. 3,037,062.
Gleim, William K. T. 3,039,994.
Grasselli, Robert, and Allsing. 3,064,814.
Hatcher, Julian P., Atherton, and Cox. 3,043,783.
Henry, Robert C. 3,017 364.
Hensel, Walter C. 3,028,907.
Hensel, Walter C. 3,066,656.
Hervert, George L., and Linn. 3,050,570.
Hervert, George L., and Linn. 3,068,301.
Hervert, George L., and Linn. 3,054,834.
Hervert, George L., and Linn. 3,054,835.
Hervert, George L., and Linn. 3,054,836.
Hoekstra, James. 3,031,419.
Holden, Donald L. 3,016,348.
Laycak, John F., and Uphoff. 3,020,034.
Linn, Carl B. 3,023,170.
Luvisi, John P. 3,020,307.
Luvisi, John P. 3,020,309.
Luvisi, John P. 3,029,234.
Luvisi, John P. 3,029,235.
Luvisi, John P. 3,050,461.
Luvisi, John P. 3,056,793.
Luvisi, John P. 3,066,152.
Luvisi, John P., and Chenicek. 3,023,161.
Luvisi, John P., and Schmerling. 3,053,896.
Luvisi, John P., and Schmerling. 3,054,830.
Luvisi, John P., and Schmerling. 3,057,922.
Luvisi, John P., and Schmerling. 3,064,059.
Massey, Lester G. 3,035,888.
McCartney, Daniel E., and Hoekstra. 3,020,242.
McCausland, John W., and Hardison. 3,067,774.
McCreanor, Richard A., Uphoff, Laycak, and Libenschek. 3,020,033.
Michalko, Edward. 3,027,232.
Michalko, Edward. 3,027,233.
Michalko, Edward. 3,027,234.
Murray, Maurice J., and Bicek. 3,021,209.
Nixon, William G. 3,017,369.
Nixon. William G. 3,023,173.
O'Hara, Mark J. 3,016,346.
Universal Oil Products Co.: *See*—Continued
O'Hara, Mark J. 3,016,347.
Pollitzer, Ernest L. 3,017,258.
Pollitzer, Ernest L. 3,017,343.
Pollitzer, Ernest L. 3,017,358.
Pollitzer, Ernest L. 3,029,127.
Pollitzer, Ernest L. 3,031,504.
Pollitzer, Ernest L. 3,031,505.
Pollitzer, Ernest L. 3,063,790.
Purse, Frank V. 3,054,664.
Purse, Frank V., and Gerald. 3,068,079.
Ruff, Norbert C. 3,055,811.
Schmerling, Louis. 3,017,431.
Schmerling, Louis. 3,019,216.
Schmerling, Louis. 3,049,253.
Schmerling, Louis. 3,050,567.
Schmerling, Louis, and Toekelt. 3,021,367.
Schmerling, Louis, and Toekelt. 3,053,868.
Smith, Marvin A. 3,023,171
Stedman, Russell F. 3,023,160.
Stine, Laurence O., Vesely, and Schoenfeld. 3,058,906.
Thompson, Ralph B. 3,017,422.
Thompson, Ralph B. 3,061,586.
Thompson, Ralph B. 3,062,631.
Thompson, Ralph B. 3,062,744.
Thompson, Ralph B. 3,063,999.
Thompson, Ralph B., and Gleim. 3,066,174.
Urban, Peter. 3,034,865.
Urban, Peter. 3,039,855.
Urban, Peter, and Massey. 3,050,370.
Vesely, Jerome A. 3,016,347.
Watkins, Charles H. 3,017,250.
Watkins, Charles H. 3,026,260.
Watkins, Charles H. 3,027,238.
Watkins, Charles H. 3,048,468.
Universal Packaging Corp.: *See*—
Clarke, Charles E. 3,024,709.
Universal Pictures Co., Inc.: *See*—
Summers, Virgil H., McClure, and Kuntze. 3,018,116.
Universal Railway Devices Co.: *See*—
Broling, Keith W. 3,025,932.
Universal Recorders of California, Inc.: *See*—
Gilman, Warren C. 3,027,430.
Universal Thread Grinding Co.: *See*—
Linley, Francis M., Jr. 3,021,538.
Universal Transistor Products Corp.: *See*—
Bender, Alfred. 1,064,177.
Universal Trimming Co.: *See*—
Goodman, Abraham. 3,066,381.
Universal Winding Co.: *See*—
Hilbert, Richard G. 3,044,247.
Stoddard, Nicholas J., and Seem. 3,036,423.
Universidad de Villanueva: *See*—
De la Vega F., Jose R., and Rodriguez. 3,051,611.
Universite de Louvain: *See*—
De Dobbeleer, Gilbert D. P. 3,061,936.
University of Akron, The Board of Directors of, The: *See*—
Morton, Maurice, and Rembaum. 3,051,684.
University of California, The Regents of the: *See*—
Anderson, Victor C. 3,039,094.
Barker, Horace A. 3,037,016.
Jorgensen, Eugene C. 3,017,428.
Jorgensen, Eugene C. 3,045,041.
Mackay, Ralph S., and Berg. 3,049,001.
Sah, Peter P. T. 3,041,345.
University of Illinois Foundation, The: *See*—
Audrieth, Ludwig F., and Otto. 3,044,846.
Audrieth, Ludwig F., and Otto. 3,048,631.
Bardeen, John. 3,051,876.
Fowler, Vernon J. 3,022,443.
Fry, William J. and F. J. 3,024,644.
Fry, William J., F. J., and Dreyer. 3,051,167.
University of Michigan, The Regents of the: *See*—
Biel, John H., and Blicke. 3,051,715.
University of Minnesota, The Regents of the: *See*—
Block, Stanley M. 3,024,413.
Coulter, Samuel T. 3,017,275.
Kubicek, William G. 3,050,050.
Parham, William E. 3,051,759.
University of North Dakota: *See*—
Cooley, Albert M. 3,016,303.
University of Notre Dame du Lac: *See*—
Trexler, Philip C. 3,016,284.
Trexler, Philip C. 3,050,791.
Trexler, Philip C. 3,051,163.
Trexler, Philip C. 3,051,184.
Trexler, Philip C. 3,059,831.
University of Pennsylvania, the trustees of the: *See*—
Kral, Frank. 3,029,185.
University of Tennessee Research Corp., The: *See*—
Hertel, Kenneth L. 3,057,019.
Hertel, Kenneth L., and Neil. 3,065,664.
Neil, Hugh G. 3,065,629.
Robertson, Judson H. 3,026,187.
University of Virginia: *See*—
Major, Randolph T., and Ohly. 3,027,407.
Unkefer, Gilbert G., J. G. Barrick, and W. H. Meek, Jr., to The Harshaw Chemical Co. Water dispersed drier compositions. 3,046,153, 7–24–62. Cl. 106—210.
Unruh, Vernon A. Power transmission. 3,058,363, 10–16–62, Cl. 74—219.

Unser, Klaus: *See*—
Stebler, Alfred, and Unser. 3,067,350.
Unsworth, Alan R. Racks for holding wine glasses and like articles. 3,022,899, 2–27–62, Cl. 211—71.
Unterberger, Richard, to C. Zeiss. Rapid-action counter. 3,038,659, 6–12–62, Cl. 235—117.
Untermyer, Samuel, to United States of America, Atomic Energy Commission. Boiling reactors. 3,029,197, 4–10–62, Cl. 204—193.2.
Unterstenhofer, Gunter: *See*—
Brown, Kenneth M., Gleim, and Urban. 3,029,201.
Malz, Hugo, Wegler, and Unterstenhofer. 3,058,879.
Sasse, Klaus, Wegler, and Unterstenhöfer. 3,029,237.
Sasse, Klaus, Wegler, and Unterstenhofer. 3,040,046.
Sasse, Klaus, Wegler, Unterstenhöfer, and Grewe. 3,029,238.
Unterstenhoefer, Leo: *See*—
Steinhofer, Adolf, Bischmann, and Unterstenhoefer. 3,054,839.
Ununger, Britta E.: *See*—
Allander, Claes V. 3,056,276.
Unverferth, Jack W.: *See*—
Mason, Harold F., and Unverferth. 3,055,823.
Unwin, Jack T., to La Porte Chemicals Ltd. Production of boriun oxide. 3,059,999, 10–23–62, Cl. 23—186.
Updegraff, David M., to Minnesota Mining and Mfg. Co. Aromatic borane thallophyticides. 3,062,708, 11–6–62, Cl. 167—30.
Updegraff, Ivor H.: *See*—
Cresswell, Arthur, Kocay, and Updegraff. 3,023,134.
Latella, Dominick M., and Updegraff. 3,067,077.
Updegraff, Ivor H., and L. A. Lundberg, to American Cyanamid Co. Flame retardant composition comprising an acrylonitrile cross-linked polyester resin and organic phosphate. 3,061,571, 10–30–62, Cl. 260—30.6.
Updegraff, William H. Portable inhaler. 3,045,671, 7–24–62, Cl. 128—203.
Updegrave, Walter C.: *See*—
Peterson, Edward C., and Updegrave. 3,052,935.
Updike, Otis L., Jr.: *See*—
Davis, Loyal H., Arkin, and Updike. 3,043,507.
Updike, Stanley H.: *See*—
MacInnes, Hugh, and Updike. 3,043,636.
Upham, James B.: *See*—
Needham, Robert L., and Upham. 3,038,093.
Upham, Sidney D., and I. Klothen, to American Cyanamid Co. Stabilization of animal and poultry feed containing chlortetracycline. 3,023,105, 2–27–62, Cl. 99—2.
Uphoff, Melvin J. Anti-smog muffler. 3,036,897, 5–29–62, Cl. 23—288.
Uphoff, Russel L.: *See*—
McCreanor, Richard A., and Uphoff. 3,018,656.
Osterman, Harry F., Jr., and Uphoff. 3,066,084.
Urban, Peter, and Massey. 3,023,088.
Watkins, Charles H. 3,023,158.
Uphoff, Russel L., to Jones & Laughlin Steel Corp. Circuit for digitizing analog quantities. 3,036,299, 5–22–62, Cl. 340—347.
Uphoff, Russel L., to Jones & Laughlin Steel Corp. Indicating circuit apparatus. 3,066,225, 11–27–62, Cl. 250—219.
Uphues, Gerard T., E. Orshansky, Jr., and T. C. Soddy, to American Seal-Kap Corp. of Delaware. Railway truck brake structure. 3,024,872, 3–13–62, Cl. 188—59.
Upjohn Co., The: *See*—
Allen, Wade W., and Alway. 3,026,764.
Allen, Wade W., and Kelley. 3,023,668.
Asperen, Brooke D., Moffett, and Speeter. 3,022,314.
Ayer, Donald E. 3,056,807.
Ayer, Donald E. 3,056,808.
Babcock, John C., and Campbell. 3,064,013.
Babcock, John C., Campbell, Herr, Hogg, and Pederson. 3,016,387.
Babcock, John C., and Pederson. 3,070,612.
Babcock, John C., and Wechter. 3,019,244.
Beal, Philip F., and Kagan. 3,053,864.
Beal, Philip F., III, and Jackson. 3,021,327.
Bergy, Malcolm E., De Boer, Dietz, Eble, Herr, and Johnson. 3,027,300.
Boyack, Gerald A., and Swank. 3,035,910.
Campbell, J Allan, and Babcock. 3,029,263.
Dale, Jack K., and Hanze. 3,062,712.
De Boer, Clarence, Eble, and Large. 3,022,220.
Eble, Thomas E., and Lewis. 3,020,274.
Fites, Larry L. 3,061,971.
Fonken, Gunther S. 3,019,243.
Fonken, Gunther S., Hogg, and Magerlein. 3,031,475.
French, Gordon H. 3,068,221.
Glenn, Eldridge M. 3,068,145.
Gutsell, Erwin S., Jr., and Magerlein. 3,025,311.
Hanze, Arthur R., Murray, and Sebek. 3,038,913.
Harrop, Leslie D. 3,036,917
Haskett, William C. 3,050,441.
Heinzelman, Richard V., Lyttle, and Anthony. 3,026,-325.
Hoeksema, Herman, Caron, and Hinman. 3,026,331.
Hogg, John A., and Magerlein. 3,027,409.
Hogg, John A., and Nathan. 3,031,476.
Holysz, Roman P. 3,031,455.
Holysz, Roman P. 3,031,456.
Jensen, Erik H. 3,043,782.
Jensen, Erik H. 3,069,317.
Upjohn Co., The: *See*—Continued
Jensen, Erik H., and Wagner. 3,069,370.
Johannesen, George T., Sr. 3,045,875.
Johnson, Le Roy E., and Sperry. 3,043,176.
Keeslar, Clifford R. 3,015,898.
Lemin, Alan J. 3,043,676.
Lemin, Alan J. 3,070,628.
Lincoln, Frank H., Schneider, and Spero. 3,027,367.
Lincoln, Frank H., Schneider, and Spero. 3,030,360.
Lincoln, Frank H., Jr., Spero, and Thompson. 3,020,297.
Long, Stuart. 3,043,747.
Magerlein, Barney J., Birkenmeyer, and Kagan. 3,016,-392.
Magerlein, Barney J., Birkenmeyer, and Kagan. 3,068,-251.
Magerlein, Barney J., and Kagan. 3,017,423.
Magerlein, Barney J., Kagan, and Schlagel. 3,038,914.
Magerlein, Barney J., and Nathan. 3,068,246.
Means, Charles W., and Savage. 3,028,314.
Moffett, Robert B. 3,036,128.
Pederson, Raymond L., and Babcock. 3,019,237.
Pederson, Raymond L., and Babcock. 3,069,437.
Reusser, Fritz. 3,062,724.
Seay, Patrick H. 3,020,202.
Schneider, William P., and Jackson. 3,040,065.
Schurr, Paul E. 3,049,226.
Spero, George B., and Thompson. 3,045,031.
Sponnoble, Harry. 3,070,502.
Strube, Richard E. 3,022,306.
Strube, Richard E., Birkenmeyer, and Kagan. 3,052,709.
Szmuszkovicz, Jacob. 3,022,345.
Szmuszkovicz, Jacob. 3,027,408.
Szmuszkovicz, Jacob. 3,028,393.
Szmuszkovicz, Jacob. 3,037,991.
Szmuszkovicz, Jacob. 3,043,849.
Szmuszkovicz, Jacob. 3,050,530.
Szmuszkovicz, Jacob, and Anthony. 3,022,313.
Szmuszkovicz, Jacob, and Anthony. 3,023,221.
Tazelaar, Adrian P., and Veldkamp. 3,044,932.
Underwood, Gerald E. 3,048,523.
Walker, Bradford H., and Forshlad. 3,057,884.
Warner, Donald T. 3,027,363.
Wechter, William J. 3,019,242.
Wechter, William J. 3,070,611.
Wechter, William J., and Anger. 3,061,618.
Wright, John B. 3,041,331.
Wright, John B. 3,063,903.
Upshur, Littleton, to Burlington Industries, Inc. Testing apparatus and method and specimen therefor. 3,034,336, 5–15–62, Cl. 73—38.
Upshur, Littleton, to Burlington Industries, Inc. Process for coloring polyolefinic textile materials. 3,046,076, 7–24–62, Cl. 8—55.
Upson, Maxwell M., to Raymond International Inc. Methods and apparatus for making concrete pile shells and piles. 3,034,304, 5–15–62, Cl. 61—56.5.
Upton, Charles B., to The French Oil Mill Machinery Co. Solvent extraction apparatus. 3,021,201, 2–13–62, Cl. 23—272.5.
Upton, Chester W., Jr., and E. F. Beach, to Westinghouse Electric Corp. High speed electric switch. 3,027,439, 3–27–62, Cl. 200—148.
Upton, Chester W., Jr., and E. F. Beach, to Westinghouse Electric Corp. Outdoor disconnecting switch. 3,047,686, 7–31–62, Cl. 200—48.
Upton Electric Furnace Co., Inc.: *See*—
Upton, Richard C. 3,049,576.
Upton, Ernest F., Jr., to Daystrom Inc. Temperature compensated semiconductor reference device. 3,070,744, 12–25–62, Cl. 323—69.
Upton, George F.: *See*—
Blyth, Jack V., and Upton. 3,020,004.
Upton, Richard C., to Upton Electric Furnace Co., Inc. Electric salt bath furnace. 3,049,576, 8–14–62, Cl. 13—23.
Upton, Thomas F., to American Loose Leaf Corp. Telephone book stands. 3,044,210, 7–17–62, Cl. 45—85.
Uragami, Kikuji: *See*—
Akaboshi, Michijiro, Uragami, and Okuma. 3,052,610.
Uraneck, Carl A., and R. J. Sonnenfeld, to Phillips Petroleum Co. Method for solubilizing an acid copolymer, and water-soluble product obtained thereby. 3,070,583, 12–25–62, Cl. 260—82.1.
Uraneck, Carl A., and J. E. Burleigh, to Phillips Petroleum Co. Process for controlling modulus and color of elastomers prepared in emulsion systems by converting the N-substituted dithiocarbamic acid salt short stopping agent to a salt of Pb, Cd, or Hg. 3,062,791, 11–6–62, Cl. 260—85.1.
Urbach, Otto R. to Minnesota Mining and Mfg. Co. Thermocopying machine. 3,053,175, 9–11–62, Cl. 101—131.
Urban, George E., to The Heil Co. Refuse body loading and packing mechanisms. 3,049,256, 8–14–62, Cl. 214—518.
Urban, Peter: *See*—
Whiting, Edwin F., and Schneider. 3,019,238.
Urban, Peter, to Universal Oil Products Co. Sulfur production. 3,034,865, 5–15–62, Cl. 23—225.
Urban, Peter, to Universal Oil Products Co. Oxidation of sulfur compounds. 3,039,855, 6–19–62, Cl. 23—225.
Urban, Peter, and L. G. Massey, to Universal Oil Products Co. Production of sulfur. 3,023,088, 2–27–62, Cl. 23—226.

Urban, Peter, and L. G. Massey, to Universal Oil Products Co. Production of sulfur. 3,050,370, 8–21–62, Cl. 23—226.

Urbanetti, Anthony J. Method and means for making a glass fiber product. 3,024,150, 3–6–62, Cl. 154—36.

Urbanic, Anthony J.: *See*—
Robinson, Jack D., and Urbanic. 3,026,228.

Urbany, Urban. Inflatable sole and heel structure with replaceable tread portions. 3,044,190, 7–17–62, Cl. 36—29.

Urben, Leon J., to J. I. Case Co. Spike tooth harrow. 3,043,377, 7–10–62, Cl. 172—611.

Urchick, Demetrius: *See*—
Rubens, Louis C., Griffin, and Urchick. 3,067,147.

Urdal, Jan: *See*—
Malavazos, Arthur J., and Urdal. 3,066,864.

Urdanoff, Howard D., to Le Chaude, Inc. Filter. 3,017,032, 1–16–62, Cl. 210—236.

Ure, Roland W., Jr.: *See*—
Bowers, Raymond, and Ure. 3,054,842.

Urech, Ernst, to Ciba Corp. 3-quinolyl-guanidines. 3,056,789, 10–2–62, Cl. 260—286.

Urech, Jakob: *See*—
Wettstein, Albert, Vischer, Urech, and Jeger. 3,055,806.

Ureda, Eugene C.: *See*—
Christian, Edward H., and Ureda. 3,021,515.

Uremura, Teijiro: *See*—
Shimura, Kensuke, and Uremura. 3,041,247.

Uren, Richard F.: *See*—
McGuire, George E., Uren, and Woodside. 3,023,914.

Uren, William J.: *See*—
Kuzell, Charles R., Fowler, Davis, Klein, Uren, and Macdougall. 3,023,454.

Urfer, Allen D., and L. E. Jackson, to Stauffer Chemical Co. Method of bleaching clay and improved clay product. 3,030,707, 7–10–62, Cl. 106—288.

Uritis, Joseph M., to Radio Corp. of America. Regulation of head spacing by air bearing means. 3,030,452, 4–17–52, Cl. 179—100.2.

Uritis, Joseph M., to Radio Corp. of America. Web reeling system. 3,032,234, 5–1–62, Cl. 242—55.12.

Urlaub, George A. A. Stretch fabric and method. 3,040,551, 6–26–62, Cl. 66—197.

Urmenyi, Laszlo. Thickness gauges. 3,059,466, 10–23–62, Cl. 73—37.7.

Urmenyi, Laszlo. Pick-up arm. 3,059,934, 10–23–62, Cl. 274—23.

Urmetz, Walter W., and J. C. Carpenter, to Oglebay Norton Co. Bottom ring assembly. 3,058,182, 10–16–62, Cl. 22—147.

Urne, Vasili: *See*—
Jirou, Marcel, and Urne. 3,030,352.

Urné, Vassili: *See*—
Jirou, Marcel, and Urné. 3,021,322.

Urquhart, David B.: *See*—
Todhunter, Ronald W., and Urquhart. 3,029,771.

Urquhart, Lloyd G., to H. F. Livermore Corp. Shuttle control. 3,028,882, 4–10–62, Cl. 139—185.

Urquhart, Lloyd G., to H. F. Livermore Corp. Filling feelers. 3,028,883, 4–10–62, Cl. 139—281.

Urry, Lewis F., to Union Carbide Corp. Depolarizer for rechargeable cells. 3,024,297, 3–6–62, Cl. 136—139.

Urry, Lewis F., to Union Carbide Corp. Fiber-bonded electrodes. 3,033,909, 5–8–62, Cl. 136—59.

Urry, Lewis F., to Union Carbide Corp. Bonded electrodes. 3,060,254, 10–23–62, Cl. 136—24.

Urry, Lewis F., and H. W. Holland, to Union Carbide Corp. Depolarizer for rechargeable cells. 3,053,701, 9–11–62, Cl. 136—138.

Urschel, Gerald W.: *See*—
Urschel, Joe R. and G. W. 3,053,296.

Urschel, Joe R. and G. W. Method of and apparatus for slitting beans. 3,053,296, 9–11–62, Cl. 146—78.

Urscheler, Emil, to Turissa Sewing Machine Factory Ltd. Sewing machine with zigzag or ornamental stitching attachment. 3,034,461, 5–15–62, Cl. 112—158.

Ursprung, Joseph J., to Chas. Pfizer & Co., Inc. 5-fluorouracil compositions for treating coccidiosis. 3,017,322, 1–16–62, Cl. 167—53.1.

Uruburu, Fernando J. Concrete mold forms. 3,021,586, 2–20–62, Cl. 25—121.

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Uschold, Clarence W. Air director for furnaces. 3,037,550, 6–5–62, Cl. 158—1.5.

Usdin, Eugene, to Sinclair Research, Inc. Method and apparatus for preparing displays of seismic information. 3,050,731, 8–21–62, Cl. 346—1.

Ushakoff, Alexis E. Vegetable tanning process. 3,068,059, 12–11–62, Cl. 8—94.32.

Usher, Francis C., to Phillips Petroleum Co. Surgical mesh. 3,054,406, 9–18–62, Cl. 128—334.

Usher, Ralph E., J. J. Conway, and F. E. Goodness, to General Electric Co. Printed wiring board repair apparatus. 3,045,095, 7–17–62, Cl. 219—10.79.

Usher, Theron, Jr., to Textron Electronics, Inc. Exciter equalizer. 3,026,480, 3–20–62, Cl. 328—127.

Ushio, Kunika. Abnormal color sense correcting apparatus. 3,041,927, 7–3–62, Cl. 88—20.

Usines Chimiques Rhone-Poulenc, Societe des: *See*—
Bo, Gilbert, Fichet, Perrot, and Perras. 3,017,401.
Chevalier, Pierre J. 3,028,347.
Collardeau, Georges, and Pierrot. 3,065,199.

Usines Chimiques Rhone-Poulenc, Societe des: *See*—Con.
Fournet, Andre, and Lemoine. 3,017,397.
Fournet, Andre, and Lemoine. 3,049,512.
Gailliot, Paul Debarre, and Cometti. 3,035,076.
Gailliot, Paul, and Gaudechon. 3,045,017.
Jacob, Robert M., and Horclois. 3,055,890.
Jacob, Robert M., and Preau. 3,058,985.
Jacob, Robert M., and Robert. 3,047,571.
Julia, Marc T. 3,046,299.
Metivier, Jean. 3,029,277.
Metivier, Jean, and Jolou. 3,038,806.
Normant, Henri. 3,017,437.
Normant, Henri M. 3,059,032.
Schuppon, Charles R. M. 3,039,874.
Scriabine, Igor. 3,023,247.
Tchelitcheff, Serge. 3,065,133.

Usines Decoufle S.A.: *See*—
Labbe, Francis A. M. 3,030,965.
Lanore, Raymond. 3,030,966.
Lanore, Raymond. 3,032,041.

Usines de Melle (Societe Anonyme), Les: *See*—
Colin, Pierre. 3,022,225.

Usines "Le Lion D'Or Distillerie-Malterie-Fabrique de Levure, Societe Anonyme: *See*—
De la Kéthule de Ryhove, Jacques and J. P., Schoolmeester, and De Hemptinne. 3,030,279.

Usines Tanvez: *See*—
Couquet, Hubert. 3,027,026.

Usines, Tornos, Fabrique de machines Moutier S.A.: *See*—
Konrad, Léon. 3,041,904.
Konrad, Léon. 3,042,251.

Ustin, George, to Buchanan Electrical Products Corp. Electric terminal block assembly of the stud type. 3,019,408, 1–30–62, Cl. 339—198.

Ustin, George, to Buchanan Electrical Products Corp. Locator controlled crimping tool. 3,063,313, 11–13–62, Cl. 81—15.

Utah Cooperative Association (a Farmers Union Affiliate): *See*—
Stewart, Justin C. 3,507,709.

Utah Hydro Corp.: *See*—
Jackson, George W. 3,037,553.

Utah Scientific Research Foundation: *See*—
Hardman, James A. 3,044,318.

Ute Industries, Inc.: *See*—
Hartung, Stanley H. 3,053,500.

Uthemann, Wolfgang, to Rosenkaimer G.m.b.H. Hinge connection for umbrella top ribs and structures. 3,021,854, 2–20–62, Cl. 135—32.

Utility Appliance Corp.: *See*—
Albert, Richard E. 3,067,735.

Utility Service Co., Inc.: *See*—
Wells, Henry. 3,022,746.

Utne, Torleif, R. E. Jones, and J. D. Garber, to Merck & Co., Inc. Process for producing 1, 6-hexanediol. 3,070,633, 12–25–62, Cl. 260—635.

Utsumi, Isamu: *See*—
Sugimoto, Norio, Utsumi, and Ida. 3,041,243.

Uttley, Albert M.: *See*—
Russell, Graham, and Uttley. 3,045,911.

Utz, Ernst J.: *See*—
Henderson, Donald E., Brown, Schwartz, and Utz. 3,030,713.

Utz, Georg. Device for use on sewing machines for the automatic production of ornamental stitches. 3,062,165, 11–6–62, Cl. 112—160.

Uytenbogaart, Johannes W. H., to A. Roosehoom. Hypodermic injection apparatus. 3,055,362, 9–25–62, Cl. 128—218.

Uzu, Keizo: *See*—
Kamada, Hideo, Wakaki, Tomioka, Ueyama, Uzu, Marumo, and Fujimoto. 3,044,935.

VCA Inc.: *See*—
Sagarin, Philip H. 3,039,659.
Sagarin, Philip H. 3,054,536.
Steiman, Wolf, and O'Donnell. 3,036,744.

VDO Tachometer Werke Adolf Schindling G.m.b.H.: *See*—
Henss, Heinrich. 3,058,140.
Henss, Heinrich. 3,059,230.

VEB Buchungsmaschinenwerk Karl-Marx-Stadt: *See*—
Görner, Wolfgang, and Klüge. 3,050,246.
Schulze, Joachim. 3,034,721.

VEB Carl Zeiss: *See*—
Krohs, Alfred, and Schlohlein. 3,019,364.

VEB Chemische Fabrik Grünau: *See*—
Selle, Hans-Dieter, and Ruhnau. 3,022,131.

VEB Chemische Werke Buna: *See*—
Herte, Paul, Springer, and Karwowski. 3,023,513.

VEB Deutsches Hydrierwerk Rodleben: *See*—
Engelbrecht, Heinz-Joachim, Lenke, and Müller. 3,017,411.

VEB Fernmeldewerk Arnstadt: *See*—
Belopitov, Nikola R. 3,028,478.

VEB Fortschritt Erntebergungsmaschinen: *See*—
Dutschmann, Max, and Schulze. 3,035,391.

VEB Getriebewerk Leipzig: *See*—
Brandt, Herbert. 3,051,256.
Brandt, Herbert. 3,051,326.

VEB Grubenlampenwerke: *See*—
Winkler, Hans H. 3,066,178.

VEB Industriewerke Karl-Marx-Stadt: *See*—
Freist, Manfred. 3,017,862.

VEB Kamera- und Kinowerke Dresden : *See*—
Berger, Edith, Hahn, and Krömer. 3,030,871.
Bohm, Siegfried. 3,066,590.
Bohm, Siegfried, Hainy, Jurenz, and Jehmlich. 3,034,412.
Bohm, Siegfried, Winkler, and Skolaude. 3,052,170.
Bousch, Josef, Gopfert, and Planert. 3,017,804.
Hahn, Erich. 3,043,202.
Hintze, Klaus. 3,063,355.
Hintze, Klaus, and Heinze. 3,021,773.
Jehmlich, Gerhard, and Seifert. 3,058,408.
Kodalle, Horst, and Seifert. 3,017,812.
Korf, Erich. 3,049,052.
Krömer, Karl, and Berger. 3,059,555.
Leuschke, Siegfried, and Grötzschel. 3,027,800.
Noack, Rolf, and Hahn. 3,031,939.
Noack, Rolf, and Hahn. 3,037,434.
Planert, Wolfgang. 3,045,574.
Schulze, Heinz. 3,049,983.
Strehle, Horst. 3,048,091.
Weise, Johannes, and Hahn. 3,057,280.
Winzenburg, Wilhelm. 3,046,832.
VEB Leuna-Werke "Walter Ulbricht" : *See*—
Beumann, Rudolf, Höringklee, and Büchner. 3,036,882.
Höringklee, Walter. 3,069,354.
VEB Mansfeld Hutten-Kombinat Wilhelm Pieck : *See*—
Benkenstein, Walter. 3,025,548.
VEB Schlepperwerk Nordhausen : *See*—
Hausmann, Werner. 3,054,644.
Hausmann, Werner, and Hentschel. 3,040,588.
Hausmann, Werner, and Vogel. 3,015,344.
Schulze, Klaus-Jürgen, and Kubatschka. 3,021,720.
Selle, Heinz. 3,051,257.
Sommer, Reinhold. 3,025,711.
VEB Schwermaschinenbau S. M. Kirow : *See*—
Buske, Fritz, and Kuschel. 3,042,421.
Eichler, Herbert, and Herzog. 3,056,314.
VEB Tullmaschinebau : *See*—
Mauersberger, Heinrich. 3,030,786.
VEB Tullmaschinenbau Karl-Marx-Stadt : *See*—
Mauersberger, Heinrich, and Kemter. 3,058,193.
VEB Vereinigte Strumpfwerke Esda : *See*—
Lindner, Hugo and H. 3,019,627.
VEB Werk für Signal- und Sicherungstechnik Berlin : *See*—
Bechstein, Volker. 3,037,111.
VEB Zentrale Entwicklung und Konstruktion (Zek) Hydraulik : *See*—
Berg, Fritz, Arndt, and Wrabetz. 3,046,895.
V-M Corp. : *See*—
Faulkner, Willard J., and Bayha. 3,046,020.
Faulkner, Willard J., and Hammond. 3,046,024.
Faulkner, Willard J., and Rhoades. 3,043,533.
Hammond, Robert J. 3,054,862.
Van Antwerp, Robert. 3,066,941.
Vaaler, Luther E., to The Griscom-Russell Co. Corrosion-resistant surface. 3,017,696, 1–23–62, Cl. 29—527.
Vabix, Aktiebolaget : *See*—
Henningsson, Thom L. 3,022,048.
Vaccaro, Angelo. Solenoid actuated electric device. 3,028,-587, 4–3–62, Cl. 340—252.
Vaccaro, Frank E., and F. R. Arams, to United States of America, Navy. Choke type shorting plunger. 3,049,684, 8–14–62, Cl. 333—98.
Vaccaro, Joseph, Jr. : *See*—
Guarino, Louis S., and Vaccaro. 3,059,233.
Vaccaro, Joseph, Jr., to United States of America, Navy. Readout mechanism. 3,036,477, 5–29–62, Cl. 74—665.
Vaco Products Co. : *See*—
Hardt, Carl T. 3,058,377.
Vacudent Mfg. Co. : *See*—
Thompson, Elbert O. 3,017,886.
Thompson, Elbert O., and Bagley. 3,067,864.
Vacu-Dry Co. : *See*—
Dorsey, William R., and Kalbaugh. 3,018,559.
Dorsey, William R., and Strashun. 3,049,426.
Dorsey, William R., and Strashun. 3,060,037.
Vac-U-Max : *See*—
Pendleton, Frank P. 3,031,233.
Pendleton, Frank P. 3,061,179.
Vacuum Baking Corp. : *See*—
Polin, Herbert S. 3,027,262.
Polin, Herbert S. 3,063,846.
Vacuum Can Co. : *See*—
Haloski, Frank, and Adams. 3,069,094.
Vacuum Cleaner Corp. of America : *See*—
Tamarin, Bernard J. 3,029,462.
Vadas, Leslie : *See*—
Wilbur, Paul C., Vadas, and Puccinelli. 3,045,730.
Vadas, Leslie, to FMC Corp. Control system for case loading machine. 3,016,664, 1–16–62, Cl. 53—62.
Vadas, Leslie, to FMC Corp. Peach pitter gripping device. 3,045,732, 7–24–62, Cl. 146—28.
Vadas, Leslie, and P. C. Wilbur, to FMC Corp. Pitting head. 3,045,731, 7–24–62, Cl. 146—28.
Vaes, Petrus J. J., to North American Philips Co., Inc. Dry-shaver comprising a hinged cutting plate. 3,032,873, 5–8–62, Cl. 30—43.
Vaes, Petrus J. J., to North American Philips Co., Inc. Dry-shaving apparatus comprising a hair chamber with a flap. 3,061,925, 11–6–62, Cl. 30—41.
Vaeth, Mona. Article of furniture. 3,069,216, 12–18–62, Cl. 312—195.
Vaghi, Joseph. Outboard motor mounting. 3,060,887, 10–30–62, Cl. 115—17.
Vagi, Louis D. Connector. 3,034,758, 5–15–62, Cl. 248—251.
Vagli, William S. : *See*—
Kapsh, Ralph R., and Vagli. 3,036,376.
Vahle, Raymond, to Continental Can Co., Inc. Carton dispenser. 3,049,060, 8–14–62, Cl. 93—37.
Vahlteich, Hans W. : *See*—
Melnick, Daniel, Vahlteich, and Bohn. 3,065,080.
Vaida, George J. : *See*—
Vaida, Peter P. and G. J. 3,029,524.
Vaida, Peter P. and G. J. Level or straight-edge structures. 3,029,524, 4–17–62, Cl. 33—211.
Vail, Sidney L., J. G. Frick, Jr., and J. D. Reid, to United States of America, Agriculture. Wrinkle resistant cellulosic textiles and method of production. 3,015,583, 1–2–62, Cl. 117—139.4.
Vail, Walter E. : *See*—
Cox, George C., and Vail. 3,039,942.
Cox, George C., and Vail. 3,039,943.
Vaillancourt, Donald A. : *See*—
Crump, William A., Vaillancourt, and Bowens. 3,051,422.
Vaillancourt, Wilfred B. Means for lubricating ice runners or blades. 3,027,172, 3–27–62, Cl. 280—11.12.
Vaillant, Joh., K.G. : *See*—
Kramer, Udo, Lehnartz, Schwerdtfeger, and Suchetzki. 3,052,286.
Vaitekunas, Alexander A. : *See*—
Ardis, Alan E., Nasti, and Vaitekunas. 3,036,122.
Vaitekunas, Alexander A., to Olin Mathieson Chemical Corp. Process for esterifying benzene dicarboxylic acids. 3,037,-049, 5–29–62, Cl. 260—475.
Vajda, Stephen : *See*—
Davy, Russell W., Arnold, and Vajda. 3,067,991.
Vajik, Miroslav : *See*—
Vlček, Jaromir, and Vajik. 3,035,287.
Vakaleris, Demetrius G., to National Dairy Products Corp. Method of making cottage cheese. 3,039,879, 6–19–62, Cl. 99—116.
Valavanis, Constantine G. : *See*—
Teltscher, Erwin S., and Valavanis. 3,028,509.
Valcavi, Umberto : *See*—
Camerino, Bruno, and Valcavi. 3,068,229.
Camerino, Bruno, Valcavi, Sala, and Baldratti. 3,030,-390.
Valdettaro, Alarico A., C. H. Lewis, Jr., and J. C. Robinson, to Sarkes Tarzian, Inc. High frequency tuner. 3,018,372, 1–23–62, Cl. 250—20.
Valebrach, Emil M. : *See*—
Edmunds, Robert E., Fritz, Furr, Valebrach, and Weidenhammer. 3,039,682.
Furr, Robert J., and Valebrach. 3,048,393.
Valente, Ernesto. Automatic coffee making machines. 3,055,-286, 9–25–62, Cl. 99—289.
Valenti, Pasquale T., to Tangie Products, Inc. High heel protector and repair device. 3,035,357, 5–22–62, Cl. 36—1.
Valentine, Dale M., and G. A. Kelley, to Midland-Ross Corp. Airconditioning for remote spaces. 3,018,231, 1–23–62, Cl. 202—158.
Valentine, Edward H., to International Business Machines Corp. Cleaning tape for information sensing apparatus. 3,069,815, 12–25–62, Cl. 51—185.
Valentine, George E., and J. H. Eubanks, to Thermo Dynamics Corp. Air control mechanism. 3,054,443, 9–18–62, Cl. 158—28.
Valentine, Orvill H., Jr., W. F. Lodding, R. M. Kinkead, and M. M. Moorhead, Jr., to Ethicon, Inc. Limit control apparatus. 3,023,899, 3–6–62, Cl. 209—88.
Valentine, Vaughn E., to The Sun Rubber Co. Rotational casting. 3,044,124, 7–17–62, Cl. 18—58.3.
Valentine, William, and J. J. Vance, to American Cyanamid Co. Mange powders. 3,055,804, 9–25–62, Cl. 167—53.2.
Valentino, Jean G., to Wiesner-Rapp Co., Inc. Pulse-actuated motor driving system. 3,024,399, 3–6–62, Cl. 318—283.
Valerius, Harold R., Jr., to E. I. du Pont de Nemours and Co. T-belt piddler. 3,061,164, 10–30–62, Cl. 226—172.
Valet, André : *See*—
Weisang, Edouard, and Valet. 3,038,855.
Valeton, Josue J. P. : *See*—
Poorter, Teunis, and Valeton. 3,015,751.
Vali, Walter, to Industrial Physics, Inc. Method and means for measuring strain in materials. 3,036,458, 5–29–62, Cl 73—88.5.
Valin, Jacques H. F. : *See*—
Schmierer, Livia C., and Valin. 3,058,658.
Valko, Emery I. : *See*—
Tesoro, Giuliana C., Valko, and Freiman. 3,070,552.
Vallance, Norton W., Jr. : *See*—
Franklin, John B., and Vallance. 3,020,219.
Valle, Nearo D. Leader rack. 3,032,914, 5–8–62, Cl. 43—57.5.
Valleau, Robert L., to Comac Electric Co. Solenoid insert bobbin. 3,036,246, 5–22–62, Cl. 317—158.
Vallese, Lucio M., to United States of America, Navy. Transistor thyratron circuit employing grounded-emitter silicon controlled rectifier or equivalent. 3,065,360, 11–20–62, Cl. 307—88.5.
Valley, Francis E. Folding step. 3,067,835, 12–11–62, Cl. 182—95.

Valley Iron Works Co.: *See*—
Ellican, O. N., Jr. 3,063,214.
Notbohm, Willard C. 3,034,578.
Valliquette, Henry E.: *See*—
Stoyer, Paul E.,and Valliquette. 3,039,186.
Vallourec, Societe Anouyme dite: *See*—
Cavel, Pierre. 3,024,348.
Valliquist, Vincent P. Boat beaching apron. 3,055,022, 9–25–62, Cl. 9—1.
Vallquist, Vincent P. Boat beaching and anchoring techniques and mechanisms. 3,063,402. 11–13–62, Cl. 115—7.
Valore, Rudolph C., Jr., to Texas Industries, Inc. Composite building unit and method for making same. 3,027,290, 3–27–62, Cl. 156—245.
Valspar Corp.: *See*—
Baudhuin, Francis J., Heiss, Jensen, and Hager. 3,029,-847.
Heiss, Frederick H., Rolin, and Baudhuin. 3,066,830.
Valsvik, Donald J., to Wood Conversion Co. Ceiling hanger. 3,066,775, 12–4–62, Cl. 189—88.
Valve Corp. of America, Inc.: *See*—
Sagarin, Philip H. 3,024,949.
Sagarin, Philip H., and O'Donnell. 3,050,219.
Valyi, Emery I.: *See*—
Brick, Robert M., and Valyi. 3,061,924.
Valyi, Emery I. Method of manufacturing metal cans. 3,028,827, 4–10–62, Cl. 113—120.
Valyi, Emery I. Gas permeable body. 3,049,795, 8–21–62, Cl. 29—182.3.
Valyi, Emery I. Pressure vessel and method of making same. 3,062,403, 11–6–62, Cl. 220—72.
Vana, George E., to Industrial Mills, Inc. Tool holder. 3,066,385, 12–4–62, Cl. 29—96.
Van Acker, Joseph E.: *See*—
Crocker, Theodore R., Ronan, and Van Acker. 3,062,343.
Van Ackeren, Joseph, and F. R. Griffin, to Koppers Co., Inc. Coke oven doors. 3,032,483, 5–1–62, Cl. 202—248.
Van Ackeren, Joseph, and E. J. Helm, to Koppers Co., Inc. High chambered coking retort oven. 3,042,590, 7–3–62, Cl. 202—144.
Vanadium Alloys Steel Co.: *See*—
Roberts, George A., and Hamaker. 3,036,912.
Vanadium Corp. of America: *See*—
Grady, Harold R. 3,063,831.
Staggers, John O., and Bruner. 3,030,204.
Van Allan, James A.: *See*—
Sagura, John J., and Van Allan. 3,062,650.
Van Allen, Ralph G.: *See*—
Morriss, Reuben M., Jr., and Van Allen. 3,061,508.
Van Allen, Roland L. Magnetic field detector. 3,040,247, 6–19–62, Cl. 324—43.
Van Alphen, Jan and J. Terwan, to Lever Brothers Co. Preparation of a mixture of fatty-acyl-oxyalkane sulphonates. 3,029,264. 4–10–62, Cl. 260—400.
Van Alstyne, Alvin G.: *See*—
Green, David J., Van Alstyne, Moore, Sanders, Bonness, Noland, and Olson. 3,031,658.
Van Alstyne, Alvin G., and G. M. Moore, Jr., to Gilfillan Bros. Inc. System for radar positional data. 3,017,105, 1–16–62, Cl. 235—186.
Van Alstyne, Alvin G., and J. C. Sampson, to Gilfillan Bros., Inc. Time reference generator. 3,050,708, 8–21–62, Cl. 340—23.
Van Alstyne, Durlin N.: *See*—
Cox, Herbert F., Jr., and van Alstyne. 3,034,547.
Cox, Herbert F., Jr., and van Alstyne. 3,034,548.
Van Alstyne, Martha J., and P. F. Powder, to General Motors Corp. Concealable built-in oven. 3,027,216, 3–27–62, Cl. 312—271.
Van Amerongen, Gerrit J., to Shell Oil Co. Process for polymerizing olefins. 3,029,231. 4–10–62, Cl. 260—87.5.
Van Amerongen, Gerrit J., and K. Nozaki, to Shell Oil Co. Polymerization of diolefins with a Co or Ni halide-aluminum alkyl compound catalyst. 3,068,180, 12–11–62, Cl. 252—429.
Van Amstel, Johannes J. A. P., to North American Philips Co., Inc. Semi-conductor barrier-layer system. 3,067,368, 12–4–62, Cl. 317—234.
Van Andel, John R.: *See*—
Hoberg, George G., Mott, Van Andel, and Weise. 3,053,-449.
Hoberg, George G., Van Andel, and Veitch. 3,050,717.
Van Anrooy, Peter H.: *See*—
Combs, Jimmy P., and van Anrooy. 3,024,306.
Van Antwerp, Robert, to V-M Corp. Remotely controlled record changer. 3,066,941, 12–4–62, Cl. 274—10.
Van Arnam, Richard L.: *See*—
Dubetz, Alex and Van Arnam. 3,057,389.
Van Atta, Lester C.: *See*—
Strumwasser, Eric, and Van Atta. 3,039,097.
Van Atta, Lester C., to Hughes Aircraft Co. Wageguide network. 3,063,025, 11–6–62, Cl. 333—6.
Van Atta, Lester C., and F. W. Cleary, to Hughes Aircraft Co. Radar target indicator correction system. 3,042,914, 7–3–62, Cl. 343—5.
Van Auker, John B., to Burroughs Corp. Pulse amplifier with means maintaining current drain constant in different conductive states. 3,069,560, 12–18–62, Cl. 307—88.5.
Van Baarn, Paul S. Discharge and closure device for a container. 3,033,428, 5–8–62, Cl. 222—513.
Van Baelen, Armand R.: *See*—
Kachline, Harold S., and Van Baelen. 3,044,168.
Van Beckum, William G., and D. J. Thompson, to The Pacific Lumber Co. Fibrous material and method and apparatus for packaging the same. 3,040,882, 6–26–62, Cl. 206—83.5.
Van Beek, Peter: *See*—
Hankus, Chester P. 3,067,797.
Hankus, Chester P. 3,069,192.
Van Beinumelen, Henri M. Container. 3,052,371, 9–4–62, Cl. 220—20.
Van Bennekom, Carl F., and E. V. A. De Lamoureaux, to General Electric Co. Electric measuring instrument. 3,034,058, 5–8–62, Cl. 324—147.
Van Bergen, Johannes C., C. R. J. Laqueuille, and S. A. Boon, to Shell Oil Co. Storage tank. 3,047,184, 7–31–62, Cl. 220—9.
Van Beuning, Louis E. Rotary pump. 3,026,811, 3–27–62, Cl. 103—130.
Van Brocklin, Harry A.: *See*—
Berets, Donald J., Hermann, and Van Brocklin. 3,038,-911.
Van Bronkhorst, Alan: *See*—
Carrington, Wilbur A., and van Bronkhorst. 3,069,911.
Van Buren, Harold S., Jr., to United-Carr Fastener Corp. Molding fastener. 3,063,115, 11–13–62, Cl. 24—73.
Van Buren, Tracy H., Jr., to Charleston Molded Fiber Glass Co. Chair. 3,031,227, 4–24–62, Cl. 297—239.
Van Bussel, Peter. Jewelry having a resiliently biased removable insert. 3,039,279, 6–19–62, Cl. 63—29.
Van Cakenberghe, Jean L.: *See*—
Gilles, Jean-Marie F., and Van Cakenberghe. 3,065,112.
Van Cakenberghe, Jean L., and J.-M. F. Gilles, to Union Carbide Corp. Transparent electrically conductive film and method of making the same. 3,039,896, 6–19–62, Cl. 117—211.
Vancamp, Raymond M.: *See*—
Bohl, Lester E., and Vancamp. 3,065,279.
Van Camp, William M., and D. K. Bleikamp, to Olin Mathieson Chemical Corp. Fabrication of hollow articles. 3,038,-246, 6–12–62, Cl. 29—157.3.
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Vance, John J.: *See*—
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Pattison, John N., Vance, Hillenbrand, and Lanman. 3,038,954.
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Van den Bergh, Jan D.: *See*— Alstad, Orval E., and Van den Bergh. 3,030,223.

Van den Blink, Willem P., to North American Philips Co., Inc. Method of and apparatus for dispensing magnetic powder. 3,026,406, 3–20–62, Cl. 219—130.

Van den Blink, Willem P., K. C. ter Haar, and E. H. Ettema, to North American Philips Co., Inc. Stud-welding ferrule. 3,021,418, 2–13–62, Cl. 219—99.

Van Den Blink, Willem P., and E. H. Ettema, to North American Philips Co., Inc. Method of stud welding and apparatus therefor. 3,056,016, 9–25–62, Cl. 219—98.

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Vanden Boom, Robert F., and E. R. Jakubs, to General Electric Co. Multi-lamp unit. 3,064,457, 11–20–62, Cl. 67—31.

Van den Bos, Bernardus G.: *See*— Uhlenbroek, Jan H., and Van den Bos. 3,051,615.

Van den Bosch, Ralph W.: *See*— De Groot, Wilhelmus C., De Haan, and Van den Bosch. 3,044,955.

Van Den Bossche, Roland G.: *See*— Andre, Louis J. F., and Van Den Bossche. 3,035,726.

Van den Broek, Jan A.: *See*— Kelly, De Loy H., and Van den Broek. 3,036,505.

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Van Der Aue, Charles R., to Whirlpool Corp. Incinerator ash reducer. 3,027,855, 4–3–62, Cl. 110—165.

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Vanderbilt, R. T., Co., Inc.: *See*— Harvey, Allan M., Karstan, and Taylor. 3,024,163.

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Van Der Esch, Henri, to Davo Haardenfabrik, N.V. Oil meter for use with a central oil distributing system. 3,039,-307, 6–19–62, Cl. 73—217.

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Van der Lely, Cornelis and A. 3,038,291.
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Van der Lely, Cornelis and A. 3,063,724.
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Van der Lely, Cornelis and A., to C. van der Lely N.V. Side delivery rake with reversible rake wheels. 3,015,201, 1–2–62, Cl. 56—377.

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Vander Linden, Carl R., and J. P. Leineweber, to Johns-Manville Corp. Calcium silicate product and method of preparing the same. 3,052,563, 9–4–62, Cl. 106—306.

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Borger, Jack W., and Vander Linden. 3,069,207.

Van der Linden, Petrus C., to North American Philips Co., Inc. Method of producing transparent electrically conductive coatings and coated article. 3,027,277, 3–27–62, Cl. 117—211.

Vanderlip, Edward G., to Piasecki Aircraft Corp. Omni-directional, vertical-lift, helicopter drone. 3,053,480, 9–11–62, Cl. 244—17.13.

Van der Maat, Adrianus T.: *See*—
Van den Berge, Hendrick J., Bliek, Geleijnse, and van der Maat. 3,019,505.

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Van Der Meer, Adolf J., and D. D. Kline, to Hexcel Products Inc. Hand operated splicer. 3,030,492, 4–17–62, Cl. 219—89.

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Van der Plas, Theo: *See*—
Hermans, Marie E. A., and Van der Plas. 3,054,738.

Van Der Ploeg, Marvin L.: *See*—
Ware, Chester D., and Van Der Ploeg. 3,067,818.

Vanderpool, Ward M.: *See*—
Coffman, Marcella M., and Vanderpool. 3,045,269.

Van der Schee, Bernard L. A.: *See*—
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Van der Ster, Johannes: *See*—
Dolphin, Johannes H., and van der Ster. 3,069,863.

Van der Velden, Hans H., to The Toledo Pipe Threading Machine Co. Thread length control device for pipe threaders. 3,052,900, 9–11–62, Cl. 10—105.

Van der Velden, Hermanus A., to Stamicarbon N.V. Diaphragm actuated safety valve. 3,052,259, 9–4–62, Cl. 137—510.

Vandervell Products Ltd.: *See*—
Waterman, William J., and Mallett. 3,067,110.

Van der Voorn, Hendrikus W., and B. B. van Iperen, to North American Philips Co., Inc. Reflux klystron having a cavity resonator with a movable wall. 3,060,342, 10–23–62, Cl. 315—5.22.

Vandervoort, Norman F., to The Mason Silk Co. Magazine for sewing thread. 3,018,067, 1–23–62, Cl. 242—137.

Vander Waal, William G. Flexible material winder. 3,045,–933, 7–24–62, Cl. 242—56.

Van der Waard, Willem F.: *See*—
Szpilfogel, Stefan A., Mijs, DeFlines, and Van der Waard. 3,031,445.

Van Der Walt, Petrus J.: *See*—
Norton, Ronald M., and Van Der Walt. 3,023,903.

Van der Werff, Willem, to Werkspoor N.V. Rotary filters. 3,064,817, 11–20–62, Cl. 210—232.

Van der Wissel, Herman T., to Shell Oil Co. Box-and-pin type threaded joint. 3,050,318, 8–21–62, Cl. 285—334.

Vanderzee, David J.: *See*—
Lund, Alvin O., and Vanderzee. 3,017,957.

Vande Sande, George: *See*—
Brown, Ned C. L., and Vande Sande. 3,016,457.

Vande Sande, George, to General Railway Signal Co. Ultrasonic vehicle detector system. 3,046,518, 7–24–62, Cl. 340—38.

Van Deusen, Edmund L., to Circuit Structures Lab., Inc. Conductor connecting means. 3,024,437, 3–6–62, Cl. 339—18.

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Haug, Chester J., Van Deusen, and Selby. 3,042,330.

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Van Deusen, George S., to The Warner & Swasey Co. Can doffers. 3,028,637, 4–10–62, Cl. 19—159.

Vandeveer, Donald E.: *See*—
Fox, Gerald B., Vandeveer, and Welch. 3,044,092.

Van de Vijver, Carolus P. A. G.: *See*—
Janssen, Peter J. H., and Van de Vijver. 3,056,929.
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Van De Walle, Therese: *See*—
Fourcade, Robert, Cousin, Van De Walle, and Nicco. 3,058,972.

Van de Weijer, Martinus H. A., to North American Philips Co., Inc. Method of manufacturing sodium-vapour discharge tubes. 3,023,069, 2–27–62, Cl. 316—26.

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Van Dijck, Willem J. D., and H. Kloosterziel, to Shell Oil Co. Process for the preparation of carbon with high moderating properties and the use thereof in nuclear reactors. 3,050,-451, 8–21–62, Cl. 204—154.2.

Van Dijk, Adrianus, to The State of the Netherlands for the purposes of this Application Represented by the Board of Directors of the State Gas Concern. Gas-heated discontinuous furnace particularly adapted to the baking of bread. 3,045,614, 7–24–62, Cl. 107—55.

Van Dijk, Jan: *See*—
Kralt, Teunis, and Van Dijk. 3,053,894.

Van Dijk, Pieter, to American Enka Corp. Production of curled yarn. 3,020,700, 2–13–62, Cl. 57—157.

Van Dillen, Paul, and R. C. MacKay, to Polytran Industries, Inc. Compatible module structure. 3,054,024, 9–11–62, Cl. 317—101.

Van Dine, Gilbert A., to Bell Telephone Laboratories, Inc. Shift register. 3,016,470, 1–9–62, Cl. 307—88.5.

Van Dingenen, Johannus C., to Stamicarbon N.V. Sampler for flowing liquids. 3,046,791, 7–31–62, Cl. 73—422.

Van Dolah, Delos B., to Swift & Co. Poultry freezing and packaging. 3,060,036, 10–23–62, Cl. 99—194.

Van Dolah, Harry J., and O. C. Linhart, to Eagle Picher Co. Color stable white porcelain enamel and method of producing same. 3,017,279, 1–16–62, Cl. 106—48.

Van Dolah, Robert W., and I. B. Joffe, to United States of America, Navy. Explosive monomers and polymers. 3,025,-318, 3–13–62, Cl. 260—486.

Vandoni, Remo. Remote indicating system for liquid tanks, especially fuel tanks. 3,054,292, 9–18–62, Cl. 73—299.

Van Donk, Cornelius H., and O. R. Cleereman, said Cleereman assor. to said Van Donk. File drawer. 3,033,637, 5–8–62, Cl. 312—303.

Van Doorn, Donald W., and W. C. Pease, III, C. E. Tillery, and G. P. Meade, to Lummus Cotton Gin Co. Interconnected cotton gin and feeder. 3,032,830, 5–8–62, Cl. 19—69.

Van Doorne's Automobielfabriek N.V.: *See*—
Van der Brugghen, Joan. 3,060,759.
Van der Brugghen, Joan, and Hendriks. 3,017,783.
Van der Brugghen, Joan, and Hendriks. 3,017,785.

Van Dorn Iron Works Co., The: *See*—
French, Albert S. 3,033,548.

Van Dorp, Hans: *See*—
Perlis, David B., and Van Dorp. 3,057,137.

Van Dresser Specialty Corp.: *See*—
Reed, Clair S. 3,024,475.
Reed, Clair S. 3,024,476.
Reed, Clair S. 3,024,477.
Reed, Clair S. 3,024,565.

Van Dreven, Hermanus, and A. De Boer, to American Enka Corp. Collective ring depressor. 3,067,566, 12–11–62, Cl. 57—54.

Van Dusen, Charles H., Jr., to Addressograph-Multigraph Corp. Printing plates. 3,031,957, 5–1–62, Cl. 101—149.2.

Van Dusen, Frederick E., to Vandale Corp. Conveying means. 3,019,005, 1–30–62, Cl. 232—43.

Van Dusen, Harold A., Jr., to McGraw-Edison Co. Catenary lighting apparatus. 3,033,978, 5–8–62, Cl. 240—3.

Van Dusen, Laurence W., to Mission Industries. Trousers and skirt hanger. 3,061,155, 10–30–62, Cl. 223—96.

Van Duuren, Hendrik C. A., and J. Tulnman, to De Staat der Nederlanden ten Deze Vertegenwoordigd Door de Directeur-Generaal der posterijen, Telegrafie En Telefonie. Multifrequency telegraph system including means for checking the adverse influence of signal element prolongation. 3,026,372, 3–20–62, Cl. 178—88.

Van Duuren, Kars: *See*—
Hermsen, Johannes, and Van Duuren. 3,056,059.

Van Duzer, Victor E., to Hewlett-Packard Co. High frequency trigger converters employing negative resistance elements. 3,040,186, 6–19–62, Cl. 307—88.5.

Van Dyk & Co., Inc.: *See*—
Kreps, Saul I. 3,058,886.
Kreps, Saul I. 3,065,144.
Kreps, Saul I., Ohlsson, and Epstein. 3,030,275.

Van Dyke, Karl S., to United States of America, Navy. FM echo-ranging system. 3,016,513. 1–9–62, Cl. 340—3.

Van Dyke, Kenneth M. Automatic kick down assembly for overdrive transmission. 3,068,716, 12–18–62, Cl. 74—472.

Van Dyke, Lyle H. Telephone handset support. 3,025,360, 3–13–62, Cl. 179—157.

Van Dyke, Neil D.: *See*—
Hoover, Herbert L., and Van Dyke. 3,051,915.

Van Dyke, William D., to Douglas Aircraft Company, Inc. High speed commutator switch. 3,045,075, 7–17–62, Cl. 200—24.

Vane, Arthur B., to Varian Associates. Multiplexer apparatus. 3,056,096, 9–25–62, Cl. 333—10.

Van Endert, Fritz: *See*—
Lindemann, Waldemar, and van Endert. 3,049,988.

Van Ess, Paul R.: *See*—
Payne, George B., Sullivan, Van Ess, and Williams. 3,062,890.

Van Ess, Paul R., to Shell Oil Co. Epoxy cyanohydrins. 3,047,588, 7–31–62, Cl. 260—348.

Van Fleet, Robert K. Stand for washing machine wringer head. 3,036,828, 5–29–62, Cl. 269—163.

Vang, Alfred, ⅛ to Anna Vang, and ⅛ to Alfred Vang, trustee. Pressure transformer. 3,059,094, 10–16–62, Cl. 219—86.

Vang, Anna: *See*—
Vang, Alfred. 3,059,094.

Van Geel, Theodorus L. C., and H. J. M. Joormann, to North American Philips Co., Inc. Electroluminescent element. 3,043,979, 7–10–62, Cl. 313—108.

Van Geem, John D., and R. H. Nordin. Fiberglass milk bottle crate. 3,067,901, 12–11–62, Cl. 217—65.

Van Gelder, Arthur, to Basic Vegetable Products, Inc. Fluid treatment for food materials. 3,063,848, 11–13–62, Cl. 99—204.

Vangeloff, Walter: *See*—
Ross, Nicholas V., and Vangeloff, 3,031,555.

Van Gils, Gerard E.: *See*—
Piotrowski, Henry, and Van Gils. 3,055,854.

Van Gorden, Harry J.: *See*—
Minton, Warren B., Bryan, and Van Gorden. 3,018,615.

Van Gorp, Franklin, to Van Gorp Mfg., Inc. Wing pulley belt gripping device. 3,046,805, 7–31–62, Cl. 74—230.7.

Van Gorp Mfg., Inc.: *See*—
Van Gorp, Franklin. 3,046,805.

Vanguard Abrasive Corp.: *See*—
Pratt, Willard R. 3,028,710.
Pratt, Willard R., and Benson. 3,069,816.

Van Haltern, Frank, Jr., and H. L. Vaughan, to Scripto, Inc. Latch mechanism for retractable ball pens adaptable for automatic assembly. 3,062,191, 11–6–62, Cl. 120—42.05.

Van Ham, Ernest E., to Jerguson Gage & Valve Co. Liquid level boiler gage with identical level response at all temperatures. 3.048.036. 8–7–62, Cl. 73—290.

Van Handel, Ambrose B. Pill counting device. 3,038,642, 6–12–62, Cl. 222—129.

Van Hartesveldt, Carroll H. Process for molding a glass fiber-polyester resin article. 3,055,058, 9–25–62, Cl. 18—55.

Van Hecke, George J., to Huck Mfg. Co. Tool for driving fasteners. 3,028,987, 4–10–62, Cl. 218—42.

Van Hecke, George J., to Huck Mfg. Co. Nose assembly for fastener applying tools. 3,042,244, 7–3–62, Cl. 218—30.

Van Hecke, George J., to Huck Mfg. Co. Fastener applying tool and power unit therefor. 3,052,099, 9–4–62, Cl. 60—54.5.

Van Hedel, Albert A. W. J. Device for the radiation of sound waves. 3,068,955, 12–18–62, Cl. 181—31.

Van Helden, William L., and L. E. Schoffmann, to Simplex Forms System, Inc. Concrete form locking means. 3,055,-076, 9–25–62, Cl. 25—131.

Van Heyningen, Earle M., to Eli Lilly and Co. Method of reducing cholesterol level of the blood. 3,057,777, 10–9–62, Cl. 167—65.

Van Heyst, Leonardus H, M., to Grasso's Koninklijke Machinefabrieken N.V. Machine for making cylinder-, block- or bar-shaped ice. 3,026,691, 3–27–62, Cl. 62—340.

Van Hoesen, Harold E., and R. E. Willison, to Research Corp. Electrical precipitator power system. 3,039,253, 6–19–62, Cl. 55—105.

Van Hook, John O., to Rohm & Haas Co. Bisnaphthenate heterocyclic esters. 3,046,284, 7–24–62, Cl. 260—347.4.

Van Hook, John O., to Rohm & Haas Co. Polyvinyl halide compositions plasticized with bis-naphthenate esters. 3,038,765, 9–18–62, Cl. 260—31.4.

Van Hook, John O., to Rohm & Haas Co. Resinous compositions plasticized with nitroalkylarenes. 3,054,766, 9–18–62, Cl. 260—32.4.

Van Hoozer, John F., to Pittsburgh Plate Glass Co. Preparation of alkali metal dichromate. 3,046,091, 7–24–62, Cl. 23—56.

Van Horn, Dean B. Equalizer for harrow evener. 3,062,562, 11–6–62, Cl. 280—411.

Van Horn, Russell F., to The B. F. Goodrich Co. Wheel and brake assembly. 3,061,050, 10 30–62, Cl. 188—72.

Van Horne, Beverley H., and M. K. Detwiler, to The Dow Chemical Co Photoelectric trend detector. 3,057,185, 10–9–62. Cl. 73—37.

Van Horne, Vera C. Suspensory undergarment. 3,038,471, 6–12–62, Cl. 128—159.

Van Hosen, Harold E.: *See*—
Guldemond, John, and Van Hoesen. 3,039,252.

Van House, Robert M., to General Motors Corp. Supercharging of internal combustion engines. 3,052,224, 9–4–62, Cl. 123—1.

Van Houten, Jan C., to North American Philips Co., Inc. Apparatus for pressing disc shaped phonograph records. 3,019,482, 2–6–62, Cl. 18—5.3.

Van Houten, Jan C., to North American Philips Co., Inc. Method of moulding objects from thermoplastic synthetic material. 3,060,516, 10–30–62, Cl. 18—48.3.

Van Houten, Jan C., to North American Philips Co., Inc. Moulding presses. 3,068,512, 12–18–62, Cl. 18—53.

Van Houten, Russell I. Measuring helical leads. 3,017,703, 315—3.6.

Van Hoven, Gerard C., to General Electric Co. High frequency energy interchange device. 3,062,983, 11–6–62, Cl. 1–23–62, Cl. 33—199.

Van Huellen, Alfred: *See*—
Huetter, Will. 3,034,425.

Van Huellen, Herbert: *See*—
Huetter, Will. 3,034,425.

Vani, James, to Service Metal Fabricators, Inc. Vehicle washer. 3,060,473, 10–30–62, Cl. 15—21.

Vanier, Vincent P. Pipe supporting apparatus for cutting and the like. 3,041,691, 7–3–62, Cl. 214—1.

Van Inwagen, Charles L., Jr., to United States of America, Navy. Target indicating systems. 3,016,791, 1–16–62, Cl. 88—24.

Van Iperen, Bernardus B.: *See*—
Van der Voorn, Hendrikus W., and Van Iperen. 3,060,342

Vaniscotte, Christian: *See*—
Delassus, Marcel, Lefrancois, and Vaniscotte. 3,055,732.

Van Jaarsveit, Willem A. J.: *See*—
de Waard, Pieter, and van Jaarsvelt. 3,063,019.

Van Jaarsveit, Willem A. J., and P. De Waard, to Nederlandse Organisatie voor Toegepast-Naturrwetenschappelijk Onderzoek ten behoeve van Nijverheid. Circuit for measuring self-inductances and capacitances and changes thereof. 3,030,576, 4–17–62, Cl. 324—57.

Van Jepmond, Howard K., to Zenith Radio Corp. Method of operating a secrecy communication system. 3,029,309, 4–10–62, Cl. 179—1.5.

Van Kerschaver, Raymond A., to General Motors Corp. Outside mirror mounting. 3,068,969, 12–18–62, Cl. 189—36.

Van Kijk, Pieter, to American Enka Corp. Method and apparatus for texturizing yarn. 3,067,563, 12–11–62, Cl. 57—34.

Van Kirk, William, M. W. Weiss, and A. M. Mowitz, to Interchemical Corp. Pyrolytic instrument. 3,057,692, 10–9–62, Cl. 23—232.

Van Landeghem, Frederik J.: *See*—
Sano, Karel M., and Van Landeghem. 3,031,187.

Van Langen, Johannes O. M.: *See*—
Schepman, Felix R., Wittenberg, and van Langen. 3,046,360.

Van Leer, Oscar J., and C. Ragettli, to Grotnes Machine Works, Inc. Drum forming machine. 3,051,112, 8–28–62, Cl. 113—44.

Van Leeuwen, Geertruida C.: *See*—
De Jongh, David E., Kraaijeveld, van Leeuwen, and Michels. 3,026,321.

Van Leeuwen, Johannes P. C., to Textiel Machines Reading N.V. Spring biased chair seat. 3,053,496, 9–11–62, Cl. 248—382.

Van Liew, Eugene, to United States of America, Navy. Connector assembly for annular piezoelectric transducers. 3,069,573, 12–18–62, Cl. 310—9.1.

Van Lochem, Gerrit J.: *See*—
Nijkamp, Derk J. E., van Lochem, and Vos. 3,020,699.

Van Loo, William J., Jr., to American Cyanamid Co. Process for preparing high solids aminoplast resin acid colloids and resulting product. 3,067,160, 12–4–62, Cl. 260—29.4.

Van Loon, Gerardus, trading as Cedona, Haarlemmer Pharmaceutsiche Fabriek: *See*—
Zagt, Marinus A., Jr. 3,046,195.

Van Lottum, Johannes T. A.: *See*—
Van Overbeek, Adrianus J. W. M., Willems, and Van Lottum. 3,066,258.

Van Luik, Frank W., Jr.: *See*—
Bigelow, John E., Van Luik, Dunham, and Rich. 3,037,421.

Van Luuen, Richard D., and E. A. Noel, to Minneapolis-Honeywell Regulator Co. Supporting device. 3,030,156, 4–17–62, Cl. 308—18.

Van Mechelen, Guillaume: *See*—
Pouliart, Willy H. P., and Van Mechelen. 3,028,958.
Pouliart, Willy H. P., and Van Mechelen. 3,028,961.

Van Mechelen, Guillaume, to International Standard Electric Corp. Associated circuit for electrical comparator. 3,045,-186, 7–17–62, Cl. 328—55.

Van Meer, Bernardus F. Label dispensing device. 3,033,-417, 5–8–62, Cl. 221—13.

Van Melle, Peter J., to Armour-Pharmaceutical Co. Process for preparing vitamin B_{12}. 3,057,851, 10–9–62, Cl. 260—211.5.

Van Meter, James A. Pedal operated power control device. 3,024,327, 3–6–62, Cl. 200—61.29.

Van Meyl, Johannes G. J.: *See*—
Houben, Jan A., Van Meyl, and Speyer. 3,043,722.

Van Moer, Henri, to S.A. Etablissements Van Moer. Coveralls. 3,015,106, 1–2–62, Cl. 2—79.

Van Moer, S.A. Etablissements: *See*—
Van Moer, Henri. 3,015,106.

Van Moss, John H., Jr., and P. H. Waller; said Waller assor. to Stanwood Industries Inc. Container for use with fork lift equipment. 3,049,265, 8–14–62, Cl. 220—97.

Van Moss, John H., Jr., and P. H. Waller; said Waller assor. to Starwood Industries, Inc. Pallet. 3,058,709, 10–16–62, Cl. 248—120.

Vann, Clifton B., to Riegel Paper Corp. Pipe joint and method of making the same. 3,018,120, 1–23–62, Cl. 285—55.

Van Namen, Charles, Jr., and R. W. Malarik, to Lear, Inc. Semiconductor heat sink and electrical insulator. 3,025,-437, 3–13–62, Cl. 317—235.

Van Ness, Bradford O., to Motorola, Inc. Multivibrator having input gate for steering trigger pulses to emitter. 3,069,-565, 12–18–62, Cl. 307—88.5.

Van Ness, William C.: *See*—
Oehlschlager, George A., Meloy, and Van Ness. 3,041,-008.

Van Nest, Francis H., and G. R. Fusner, to General Electric Co. Combination sealing and restraining member for long-shank turbo-machine buckets. 3,043,562, 7–10–62, Cl. 253—77.

Van Newenhoven, Augustus J.: *See*—
Berger, Richard K., Nicholas, Pickle, Soumeral, and Van Newenhoven. 3,033,009.

Van Nice, Robert I.: *See*—
Lyman, Richard C., Van Nice, and Evans. 3,040,178.

Van Nice, Robert I., and W. G. Evans, to Westinghouse Electric Corp. Optimizing apparatus and method. 3,048,331, 8–7–62, Cl. 235—151.

Van Nordstrand, Robert A., J. W. Teter, C. D. Keith, and A. P. Hauel, to Engelhard Industries, Inc. Reforming light hydrocarbons with a platinum alumina catalyst. 3,058,-907, 10–16–62, Cl. 208—138.

Van Norman Industries, Inc.: *See*—
Healy, Francis P., and Allen. 3,060,812.
Hinsey, Robert S. 3,051,015.
Lackoff, Samuel K. 3,046,491.
Reslock, Alfred M. 3,070,763.
Saether, Tore V. 3,047,250.

Vannorsdall, James W.: *See*—
Bremer, Robert D., and Vannorsdall. 3,040,161.

Van Norstrand, Walter L., Jr.: *See*—
Koenecke, Donald F., and Van Nostrand. 3,030,233.
Winters, Merilyn A., Slotterbeck, Koenecke, and Van Norstrand. 3,058,837.

Van Noy, Lawrence R., and P. N. Craig, to J. B. Nottingham & Co., Inc. Strip heater. 3,047,704, 7–31–62, Cl. 219—19.

Van Oort, Johannes F., and W. Bakker, to North American Philips Co., Inc. Remote control arrangements. 3,047,783, 7–31–62, Cl. 318—16.

Van Oosten, Adrianus W. Combined automobile tail and brake operated stop light. 3,054,983, 9–18–62, Cl. 340—50.

Van Overbeek, Adrianus J. W. M., to North American Philips Co., Inc. Device for varying resistances. 3,038,136, 6–5–62, Cl. 338—32.

Van Overbeek, Adrianus J. W. M., E. Willems, and J. T. A. van Lottum, to North American Philips Co., Inc. Semiconductor switching device. 3,066,258, 11–27–62, Cl. 324—110.

Van Overveen, Joseph P.: *See*—
Jurs, Peter C., Van Overveen, and Fletcher. 3,055,629.

Van Pappelendam, Carl A.: *See*—
Spain, Frank N., and Van Pappelendam. 3,067,494.

Van Patten, Charles D. Rudder and propeller drive shaft support assembly. 3,016,870, 1–16–62, Cl. 115—35.

Van Pool, Joe, to Phillips Petroleum Co. Control of alkylation operation. 3,018,310, 1–23–62, Cl. 260—683.48.

Van Pool, Joe, and P. D. Hann, to Phillips Petroleum Co. Alkylation-reforming with mutual beneficiation. 3,045,055, 7–17–62, Cl. 260—683.48.

Van Putten, James D., Jr.: *See*—
Donnelly, John F., and Van Putten. 3,065,663.

Van Riper, Jurian W. Continuous vulcanizing apparatus. 3,032,815, 5–8–62, Cl. 18—6.

Van Roojen, Jan, to The Ingersoll Milling Machine Co. Incremental feed mechanism. 3,022,680, 2–27–62, Cl. 74—625.

Van Rossum, Jacobus J.: *See*—
Yap, Jan K., and Van Rossum. 3,066,462.

Van Ryan, Anthony: *See*—
Date, Kazuo H., and Van Ryan. 3,030,476.
Nash, William H., and Van Ryan. 3,043,989.

Van Ryper, Guernsey, Jr.: *See*—
Burgin, Kermit H. 3,046,735.

Van Sandwyk, Johannes: *See*—
Harrison, John E. R., Lennon, and Van Sandwyk. 3,060,329.

Van Santen, Johannes G.: *See*—
Diemer, Desinus, Duinker, de Haan, and van Santen. 3,056,887.

Van Santen, Johannes G., and G. Diemer, to North American Philips Co., Inc. Radiation indicating device. 3,015,731, 1–2–62, Cl. 250—213.

Van Santen, Johannes G., and H. Esvelt, to North American Philips Co., Inc. Rectifying circuit element. 3,015,770, 1–2–62, Cl. 321—8.

Van Saun, Kennedy, Mfg. & Eng. Corp.: *See*—
Behr, Henry. 3,057,563.

Van Schaik, Johannes M.: *See*—
Sluiter, Lukas H., and Van Schaik. 3,015,667.

Van Schoor, Albert: *See*—
Jacobi, Ernest, Lust, and van Schoor. 3,046,189.
Jacobi, Ernst. Van Schoor, and Hahn. 3,030,381.

Van Sciver, Edwin P., to Philco Corp. Electric appliance. 3,026,400, 3–20–62, Cl. 219—35.

Van Sciver, Herbert D., H. R. E. Bureau, A. J. Bende, and L. T. Bowers, to The Budd Co. Arc spot welding apparatus. 3,061,714, 10–30–62, Cl. 219—127.

Van Scoy, Victor S., to E. I. du Pont de Nemours and Co. Yarn package. 3,049,230, 8–14–62, Cl. 206—64.

Van Scoyk, Howard E., to General Motors Corp. Dishwashing machine. 3,049,136, 8–14–62, Cl. 134—95.

Van Scoyk, Melvin W., to Winner Mfg. & Sales Co. Tire repair device. 3,038,204, 6–12–62, Cl. 18—18.

Van Sickle, Wilton E. Disposable hypodermic syringe. 3,016,896, 1–16–62, Cl. 128—218.

Van Sickle, Wilton E. Tablet container and dispenser. 3,033,355. 5–8–62, Cl. 206—42.

Vanslette, Robert A., to Minneapolis-Honeywell Regulator Co. Rotary electromagnetic pickoff device. 3,045,197, 7–17–62, Cl. 336—135.

Van Slooten, Louis J., to General Motors Corp. Self-contained hydraulic lash adjuster. 3,025,842, 3–20–62. Cl. 123—90.

Van Slooten, Louis J., to General Motors Corp. Submerged type hydraulic valve lifter. 3,048,156, 8–7–62, Cl. 123—90.

Van Slooten, Louis J., to General Motors Corp. Horizontal valve lifter. 3,070,080, 12–25–62, Cl. 123—90.

Van Slyke, Allan S.: *See*—
Hopkins, Joseph H., and Van Slyke. 3,021,503.
Hopkins, Joseph H., and Van Slyke. 3,065,448.

Van Strien, Richard E.: *See*—
Broadhead, Ronald L., and Van Strien. 3,053,783.
Hirsch, Arthur G., Bolton, and Van Strien. 3,067,157.
Hodes, William, and Van Strien. 3,046,258.
Stephens, James R., and Van Strien. 3,063,969.
Stephens, James R., Van Strien, and Broadhead. 3,040,-000.

Van Syoc, Auburn G., Sr., M. M. Almy, and T. K. Sydow, to Lu-Van, Inc. Folding training chair. 3,047,883, 8–7–62, Cl. 4—134.

Vant, Isadore N. Self-pressurizing gasoline stove. 3,057,399, 10–9–62, Cl. 158—67.

Vanta Co., Inc., The: *See*—
Viola, Michael D. 3,031,678.

Van Tassel, John O.: *See*—
Moore, Charles O., and Van Tassel. 3,023,798.

Van Tetterode, Floris, to F. van Tetterode and J. de Gruil, acting as Glasindustrie F. van Tetterode. Method of strengthening sheet glass in an agitated liquid fluoride bath. 3,023,139, 2–27–62, Cl. 156—24.

Van Tetterode, Glasindustrie F.: *See*—
Van Tetterode, Floris. 3,023,139.

Vantine, Harry, Jr. Direction finding and ranging system for flash type signals. 3,035,262, 5–15–62, Cl. 343—6.5.

Van Tol, Hendrikus J. M., and E. S. Den Duik, to North American Philips Co., Inc. Grid structure for electron discharge tubes. 3,054,430, 9–18–62, Cl. 140—71.5.

Vanton Pump & Equipment Corp.: *See*—
Margus, Edward A. 3,038,414.

Van't Spijker, Peter, and H. van der Marel, to Shell Oil Co. Petroleum refining process. 3,050,458, 8–21–62, Cl. 208—89.

Van Tubergen, Richard F.: *See*—
Breese, James L., and Huston. 3,017,925.

Van Tubergen, Richard F., and C. A. Mueller, to Breese Industries, Inc. Gas lamp. 3,063,278, 11–13–62, Cl. 67—87.

Van Tuyl, John E., to A. C. Mader. Liquid feeding apparatus. 3,042,071, 7–3–62, Cl. 137—454.5.

Van Uitert, Le Grand G., to Bell Telephone Laboratories, Inc. Magnesium ferrite containing aluminum and method of making same. 3,023,165, 2–27–62, Cl. 252—62.5.

Van Uitert, Le Grand G., to Bell Telephone Laboratories, Inc. Polycrystalline garnet materials. 3,038,861, 6–12–62, Cl. 252—62.5.

Van Valkenburgh, Joseph D.: *See*—
Bernstein, Isidor M., Grisewood, Van Valkenburgh, and Neville. 3,055,117.

Van Valkenburgh, Nooger and Neville, Inc.: *See*—
Bernstein, Isidor M., Grisewood, Van Valkenburgh, and Neville. 3,055,117.

Van Vechten, Richard K.: *See*—
Gulnick, Adrion N., and Van Vechten. 3,029,006.

Van Vechten, Richard K., to International Telephone and Telegraph Corp. Tape transports. 3,035,748, 5–22–62, Cl. 226—50.

Van Vechten, Richard K., and R. T. Adams, to International Telephone and Telegraph Corp. Signal translating device. 3,020,416, 2–6–62, Cl. 307—88.

Van Veen, Anton. Hand operated calculating device. 3,022,-942, 2–27–62, Cl. 235—82.

Van Veen, John: *See*—
Nelson, Raymond A., and Van Veen. 3,038,733.

Van Vleet, Frank R., to A. W. Chesterton Co. Mechanical seal. 3,068,012, 12–11–62, Cl. 277—27.

Van Vlodrop, Peter H. G.: *See*—
Van der Horst, Hajo L., and van Vlodrop. 3,015,783.
Van der Horst, Hajo L., and van Vlodrop. 3,024,427

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Van Voorhies, Robert L.: *See*—
Donaghue, John M., and Van Voorhies. 3,050,993.

Van Vorst, John. Traction actuated water skis. 3,063,071, 11–13–62, Cl. 9—310.

Vanwersch, Aloys. Mine roof bar arrangements. 3,043,108, 7–10–62, Cl. 61—45.

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Vanwersch, Ludwig: *See*—
Vanwersch, Aloys, P. and L. 3,018,126.

Vanwersch, Peter: *See*—
Vanwersch, Aloys, P. and L. 3,018,126.

Van Wicklin, Warren A., Jr.: *See*—
Kurz, Alvin M., and Van Wicklin. 3,016,710.

Van Winkle, John L.: *See*—
Jaffe, Gunter S., Rocklin, and Van Winkle. 3,047,503.
Jaffee, Gunter S., Rocklin, and Van Winkle. 3,053,803.
Rocklin, Albert L., and Van Winkle. 3,026,264.

Van Winkle, Rudolph F.: *See*—
Stoffer, Robert L., and Van Winkle. 3,027,307.

Van Winsen, Friedrich H.: *See*—
Muller, Josef, and Van Winsen. 3,068,020.

Van Winsen, Friedrich H., to Daimler-Benz Aktiengesellschaft. Ball joint connection. 3,068,032, 12–11–62, Cl. 287—90.

Van Winsen, Peter J.: *See*—
Olie, Jacob R., and Van Winsen. 3,043,768.

Van Wyk, Christiaan F. B., to Wright Anderson (South Africa) Ltd. Beam structure for mine shaft. 3,056,266, 10–2–62, Cl. 61—41.

Van Wyk, Christiaan F. B., and E. G. Fairon, to Anglo-Transvaal Consolidated Investment Co. Ltd. Shaft sinking and lashing equipment therefor. 3,067,895, 12–11–62, Cl. 214—65B.

Van Wyke, Teunis: *See*—
Towey, John P., Van Wyke, Ratcliff, and Dorrance. 3,027,229.

Van Wyngarden, Arthur R. Serving device. 3,028,038, 4–3–62, Cl. 220—23.83.

Vanyo, Andrew B. Collapsible trestle. 3,055,453, 9–25–62, Cl. 182—186.

Van Zandt, Frank B. Ice shaving apparatus. 3,064,591, 11–20–62, Cl. 107—68.

Van Zant, Oliver: *See*—
McCreary, James T., Van Zant, and Weber. 3,064,244.

Van Zanten, Pieter G.: *See*—
Blank, Hans H., van Zanten, Kuiper, and Almer. 3,020,224.

Van Zelm Associates Inc.: *See*—
Van Zelm, Willem D., and Jackson. 3,017,163.

Van Zelm, Willem D., and M. A. Jackson; said Jackson assor. to Van Zelm Associates Inc. Aerial cargo delivery system. 3,017,163, 1–16–62, Cl. 258—1.2.

Van Zelst, Johannes J. Z.: *See*—
Opstelten, Johannes J., Warmoltz, and Van Zelst. 3,066,-535.
Opstelten, Johannes J., Warmoltz, and Van Zelst. 3,066,-536.

Van Zijp, Frederik G., to Werkspoor, N.V. Damped air spring. 3,039,761, 6–19–62, Cl. 267—65.

Van Zile, Donald K.: *See*—
Caplant, Isadore, Ruffin, and Van Zile. 3,069,768.

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Block, William S. 3,044,051.
Clarkson, Alick, and Miller. 3,051,146.
Cunningham, Richard, Jr., and Rix. 3,060,905.
Moore, Edward B. 3,061,000.

Varadi, Louis E., to United States of America, Navy. Turbine cooling system. 3,043,560, 7–10–62, Cl. 253—39.15.

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Varco, Inc.: *See*—
Stratton, Edwin J. D., and Steidinger. 3,026,018.

Varcoe, Graeme L., to Imperial Chemical Industries of Australia and New Zealand Ltd. Method for the manufacture of 2,2 -dipyridyl. 3,053,846, 9–11–62, Cl. 260—296.

Vard Products Inc.: *See*—
Hislop, John A. 3,047,954.

Vardara, Walter G. Gun sight. 3,026,618, 3–27–62, Cl. 33—58.

Vardara, Walter G. Inertia safety switch. 3,047,689, 7–31–62, Cl. 200—61.45.

Vardell, William G.: *See*—
Ball, Frank J., and Vardell. 3,048,576.

Varden, Billie J. Controllable mount for aircraft power plant. 3,031,157, 4–24–62, Cl. 244—52.

Varden, Billie J. Articulate linkage. 3,057,173, 10–9–62, Cl. 64—2.

Vare Industries: *See*—
Aschinger, Harold W. 3,024,615.
Aschinger, Harold W. 3,024,757.
Aschinger, Harold W. 3,025,009.
Aschinger, Harold W. 3,025,019.
Aschinger, Harold W. 3,033,149.
Aschinger, Harold W. 3,033,919.
Aschinger, Harold W. 3,034,468.
Aschinger, Harold W. 3,034,471.
Aschinger, Harold W. 3,055,667.

Varela, Arthur A., to Melpar, Inc. System for increasing the definition of pulse echo radar. 3,044,060, 7–10–62, Cl. 343—7.

Varela, Arthur A. Heights finding radar system. 3,064,252, 11–13–62. Cl. 343—16.

Varela, James O.: *See*—
Petritz, Richard L., Manley, and Varela. 3,067,283.

Varga, André, to Carding Specialists (Canada) Ltd. Carding engines. 3,051,996, 9–4–62, Cl. 19—99.

Varga, Gyula. Electric watch mechanism. 3,021,665, 2–20–62, Cl. 58—28.

Varga, John M. J., to Carding Specialists (Canada) Ltd. Hydraulic reciprocating pump apparatus. 3,057,301, 10–9–62, Cl. 103—38.

Varga, Otto H., to Seetru Ltd. Sealing rings for valves. 3,053,501, 9–11–62, Cl. 251—332.

Vargo, Joseph. Collapsible garment hanger. 3,040,941, 6–26–62, Cl. 223—89.

Varian Associates: *See*—
Bell, William E. 3,039,045.
Bloch, Felix, Packard, and Shoolery. 3,068,399.
Bloom, Arnold L. 3,025,457.
Bloom, Arnold L. 3,058,053.
Drake, John M., Watson, Patterson, and McCraigh. 3,066,252.
Gardner, Bernard C., and Ward. 3,016,501.
Jepsen, Robert L. 3,028,071.
Jepsen, Robert L. 3,070,719.
Jepsen, Robert L., Salisbury, and Ward. 3,021,447.
Jepsen, Robert L., and Walter. 3,028,519.
Kane, Ralph W., Nelson, and Rogers. 3,017,544.
Lloyd, William A., and Zaphiropoulos. 3,042,824.
Lloyd, William A., and Zaphiropoulos. 3,056,902.
Mann, Joseph K., and Ward. 3,058,026.
Nelson, Forrest A. 3,056,070.
Nelson, Richard B. 3,051,866.
Rockwell, Robert G. 3,065,374.
Salisbury, Frederick L. 3,047,351.
Savage, William E. 3,030,572.
Shoolery, James N. 3,039,048.
Shoolery, James N., and Varian. 3,068,398.
Solomon, Jack L. 3,059,139.
Stitch, Malcolm L., and St. Clair. 3,030,594.
Vane, Arthur B. 3,056,096.
Varian, Russell H. 3,019,383.
Varian, Sigurd F., and Kalmus. 3,024,456.
Walter, Richard L., and Filmer. 3,069,590.
Walter, Richard L., and Nelson. 3,054,925.
Whitehorn, Richard M. 3,066,290.
Zaphiropoulos, Renn. 3,018,944.
Zitelli, Louis T., and Ward. 3,036,237.

Varian, Russell H., to Varian Associates. Ground liquid prospecting method and apparatus. 3,019,383, 1–30–62, Cl. 324—5.

Varian, Sigurd F.: *See*—
Shoolery, James N., and Varian. 3,068,398.

Varian, Sigurd F., and H. P. Kalmus; said Varian assor. to Varian Associates. Composite instrument. 3,024,456. 3–6–62, Cl. 343—8.

Vari-Typer Corp.: *See*—
Carlin, Harry, and Cieplik. 3,051,480.

Varlonga, Giovanni. Supporting structure for buildings. 3,058,264, 10–16–62, Cl. 50—140.

Varner, Donald E., to Industrial Nucleonics Corp. Control system. 3,054,310, 9–18–62, Cl. 80—56.

Varnerin, Lawrence J., Jr.: *See*—
Grubbs, William J., Jr., Hines, and Varnerin. 3,021,459.

Varnet, Carl P. Anti-aphthous preparation. 3,058,883, 10–16–62, Cl. 167—53.

Varney, J. A., Corp.: *See*—
Varney, Justin A. 3,060,836.

Varney, Justin A., to J. A. Varney Corp. Infusion apparatus. 3,060,836, 10–30–62, Cl. 99—302.

Varney, Robert E., to American Machinery Corp. Conveying apparatus for individual objects. 3,042,186, 7–3–62, Cl. 198—185.

Varo, Inc.: *See*—
Stanton, Austin N. 3,028,578.
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Varrall, John E., and G. F. Denver, to Airmec Ltd. Position control means. 3,035,218, 5–15–62, Cl. 318—467.

Varron, Arleen: *See*—
Rowland, Charles S., and F. and A. Varron. 3,028,349.

Varron, Arleen S., to Interchemical Corp. New moisture setting inks. 3,037,872, 6–5–62, Cl. 106—30.

Varron, Frederick: *See*—
Rowland, Charles S., and F. and A. Varron. 3,028,349.

Vartanian, Edwin S., to Olin Mathieson Chemical Corp. Twist-open firearm. 3,052,053, 9–4–62, Cl. 42—13.

Vartanian, Perry H., Jr.: *See*—
Ayres, Wesley P., Melchor, and Vartanian. 3,059,108.

Vartanian, Richard D., and R. B. Fortenbaugh, to American Cyanamid Co. Stabilized organic phosphate pesticidal compositions in fuel oil. 3,052,599, 9–4–62, Cl. 167—42.

Vartanian, Richard D., and R. B. Fortenbaugh, to American Cyanamid Co. Stabilized organic phosphate pesticidal compositions in fuel oil. 3,052,600, 9–4–62, Cl. 167—42.

Vartanian, Richard D., and W. P. Munro, to American Cyanamid Co. Water-dispersible emulsions of pinane hydroperoxide. 3,061,554, 10 30–62, Cl. 252—426.

Varterasian, John H., to General Motors Corp. Double scale phase meter. 3,052,844, 9–4–62, Cl. 324—83.

Varterasian, John H., to General Motors Corp. Displacement transducer. 3,060,370, 10–23–62, Cl. 323—94.

Varvill, Mark: *See*—
Waite, William G., Varvill, Palmer, and Tait. 3,069,336.

Vasbinder, George R., Sr. Holder for toothbrushes and the like. 3,038,773, 6–12–62, Cl. 312—252.

Vasco Industries Corp.: *See*—
Engel, Thomas. 3,039,146.

Vasel, Alfred W.: *See*—
Kalns, Rudolph W., and Vasel. 3,062,961.

Vasey, Joseph V. Cigarette holder. 3,016,908, 1–16–62, Cl. 131—240.

Vass, Eric B., to North American Philips Co., Inc. LC type transistor oscillator. 3,015,785, 1–2–62, Cl. 331—117.

Vasselin, John F., to H. E. Fletcher Co. Method and apparatus for flame cutting mineral bodies and other material. 3,019,004, 1–30–62, Cl. 262—3.

Vasselli, Anthony J.: *See*—
Castle, Chester W., and Vasselli. 3,033,573.

Vasselieff, Neiko L. Emulsion polymerization procedure. 3,061,596, 10–30–62, Cl. 260—82.5.

Vasta, Joseph A., to E. I. du Pont de Nemours and Co. Coating compositions comprising a polyepoxide resin, and acrylic terpolymer resin and a latent curing catalyst and method of preparation. 3,065,195, 11–20–62, Cl. 260—41.

Vastano, Joseph J.: *See*—
Obst, Charles J. 3,018,929.

Vaterlaus, Bruno P.: *See*—
Spiegelberg, Hans, and Vaterlaus. 3,017,337.

Vath, Hermann S. Basting dispenser for cooking. 3,022,721, 2–27–62, Cl. 99—345.

Vaughan, Arthur H.: *See*—
Heaton, George L., and Vaughan. 3,030,226.

Vaughan, Arthur H., and E. L. Kerr, to The Electric Furnace Co. Forced cooling means and method for continuous strip furnaces. 3,068,586, 12–18–62, Cl. 34—20.

Vaughan, Columbus M., and C. H. Ballenger. Blast cleaning machines. 3,028,708, 4–10–62, Cl. 51—9.

Vaughan, George, to Dunlop Rubber Co. Ltd. Method of making racket cord. 3,024,589, 3–13–62, Cl. 57—162.

Vaughan, George C. Process for bundling tobacco leaves. 3,055,375, 9–25–62, Cl. 131—149.

Vaughan, Gerald L.: *See*—
Wolter, Harry A., and Vaughan. 3,015,924.

Vaughan, Harry L.: *See*—
Van Haltern F., Jr., and Vaughan. 3,062,191.

Vaughan, Henry E., to Bell Telephone Laboratories, Inc. Electromagnetic coupling arrangements. 3,027,548, 3–27–62, Cl. 340—174.

Vaughan, Henry E., to Bell Telephone Laboratories, Inc. Multiplex signaling system. 3,050,589, 8–21–62, Cl. 179—18.

Vaughan, Homer C. Apparatus for establishing the relationship of components of an artificial dental arch or a natural dental arch. 3,023,502, 3–6–62, Cl. 32—40.

Vaughan, James R., Jr.: *See*—
Semb, Joseph, Vaughan, and Davis. 3,037,988.

Vaughan, James R. M., to General Electric Co. High power microwave device. 3,059,142, 10–16–62, Cl. 315—39.

Vaughan, John T., to National Research Corp. Electrical device for induction furnaces. 3,055,959, 9–25–62, Cl. 13—26.

Vaughan Mfg. Co.: *See*—
La Forte, Michael J. 3,057,059.

Vaughan Movable Interior Walls, Inc.: *See*—
Vaughan, Wayne W. 3,017,672.

Vaughan-Parks, Norman C. Handle carton. 3,019,960, 2–6–62, Cl. 229—52.

Vaughan, Paul J., Jr., The Goodyear Tire & Rubber Co. Packaging red meats 3,047,404, 7–31–62, Cl. 99—174.

Vaughan, Rex W.: *See*—
Bennett, Robert N., and Vaughan. 3,051,091.

Vaughan, Robert A.: *See*—
Smith, Robert W., and Vaughan. 3,042,309.

Vaughan, Roger D., to C. A. Parsons & Co. Ltd. Heat transfer surfaces. 3,027,314, 3–27–62, Cl. 204—193.2.

Vaughan, Victor G., to Texas Instruments Inc. Protective circuit. 3,041,515, 6–26–62, Cl. 318—221.

Vaughan, Wayne W., to Vaughan Movable Interior Walls, Inc. Non-load bearing dry wall partition construction. 3,017,672, 1–23–62, Cl. 20—4.

Vaughan, William H.: *See*—
Brown, Clarence M., and Vaughan. 3,039,379.

Vaughan, Woodrow E.: *See*—
Scoggin, Baxter F., Jr., and Vaughan. 3,064,865.

Vaughen, Jack F. Air-supported cargo platform or container. 3,055,446, 9–25–62, Cl. 180—7.

Vaughn, Charles O., to Suburban Appliance Co. Fire extinguisher. 3,024,847, 3–13–62, Cl. 169—31.

Vaughn, Everett W.: *See*—
Koerner, Harry E., and Vaughn. 3,048,700.

Vaughn, Fred J.: *See*—
Bushmeyer, Richard W., and Vaughn. 3,043,378.

Vaughn, Henry C.: *See*—
Daugherty, Phillip M., and Vaughn. 3,033,725.

Vaughn, Howard L., Jr.: *See*—
Burkdoll, John E., and Vaughn. 3,041,082.

Vaughn Machinery Co., The: *See*—
Bittman, Jess C. 3,064,912.
Nye, Maurice A. 3,049,315.
Nye, Maurice A. 3,054,570.
Nye, Maurice A., and Bittman. 3,064,798.
Nye, Maurice A., Bittman, and Trowbridge. 3,064,919.

Vaughn, Rudolph M. Method of making improved screw driver. 3,060,565, 10–30–62, Cl. 29—558.

Vaughn, Rudolph M. Fastening element with nut portion expandable over sleeve and then curled into annular groove in said sleeve. 3,063,329, 11–13–62, Cl. 85—2.4.

Vautin, Robert G. Underwater breathing device. 3,050,055, 8–21–62, Cl. 128—145.

Vavra, Marvin J. Droppable missile nose-cone toy. 3,044,737, 7–17–62, Cl. 244—155.

Vawter, Donald D., to North American Aviation, Inc. Measuring and comparing device of the pyrometer type. 3,068,746, 12–18–62, Cl. 88—22.5.

Vayl, Emery I. Apparatus for making plastic articles. 3,029,468, 4–17–62, Cl. 18—5.

Vazquez, Charles, to Compagnie Industrielle des Telephones. Manufacture of toroidal coils. 3,068,381, 12–11–62, Cl. 317—158.

Vazzano, Philip, to Warwick Mfg. Corp. Hold-down device for phonographs and the like. 3,063,664, 11–13–62, Cl. 248—20.
V.d. Luft, Robert W.: *See*—
Bresza, Cyril J., Hague, v.d. Luft, and Swed. 3,062,142.
Vdo Tachometer Werke, Adolph Schindling G.m.b.H.: *See*—
Henss, Heinrich. 3,022,447.
Vdolek, Alexander V., to Boeing Airplane Co. Thrust reverser for jet engines. 3,036,431, 5–29–62, Cl. 60—35.54.
Vdoviak, John W., to General Electric Co. Combustion sustaining means for continuous flow combustion systems. 3,032,991, 5–8–62, Cl. 60—39.82.
Veal, Dean J., to Phillips Petroleum Co. Removal of nitric oxide from gas streams. 3,050,363, 8–21–62, Cl. 23—157.
Veale, John H.: *See*—
Ekedahl, John C., and Veale. 3,044,889.
Veatch, Franklin: *See*—
Alford, Harvey E., and Veatch. 3,023,116.
Callahan, James L., Foreman, and Veatch. 3,044,966.
Veatch, Franklin, H. E. Alford, and R. D. Croft, to The Standard Oil Co. Hollow glass particles and method of producing the same. 3,030,215, 4–17–62, Cl. 106—40.
Veazey, Robert W.: *See*—
Koch, Fred C., Veazey, Gibbs, and Love. 3,048,438.
Veazey, Thomas M.: *See*—
Lea, Kenneth R., and Veazey. 3,060,159.
Veazie, Folsom M., to Owens-Corning Fiberglas Corp. Glass surface treatments. 3,046,084, 7–24–62, Cl. 18—54.
Veazie, Folsom M., to Owens-Corning Fiberglas Corp. Treatment for glass bodies. 3,063,788, 11–13–62, Cl. 18—54.
Vector Mfg. Co.: *See*—
Wylie, Stanley S. 3,029,368.
Vector Mfg. Co., Inc.: *See*—
Boreen, Henry I. 3,041,553.
Lynch, Thomas J. 3,021,430.
Russell, James E. 3,044,020.
Vectrol Engineering Inc.: *See*—
Brown, Walter J. 3,062,999.
Vedder, James F.: *See*—
Dessler, Alexander J., Vedder, and Hertzberg. 3,036,213.
Vedder, Walter O., and H. N. Patronik, to Pangborn Corp. Furnace hood. 3,021,376, 2–13–62, Cl. 13—9.
Vedder, Walter O., and W. F. Gibby, to Pangborn Corp. Sonic cleaning of dust filters. 3,053,031, 9–11–62, Cl. 55—292.
Vedovelli, Mario. Process for manufacturing microporous filtering diaphragms for storage batteries. 3,037,899, 6–5–62, Cl. 156—179.
Vedvik, Andrew H., to Oscar Mayer and Co., Inc. Material pick-up nozzle. 3,065,882, 11–27–62, Cl. 222—162.
Veeder, David C. Egg washer. 3,044,474, 7–17–62, Cl. 134—73.
Veeder-Root Inc.: *See*—
Bliss, Harvey N., and Vroom. 3,019,974.
Bliss, Harvey N., and White. 3,037,666.
Garland, Ronald Mc., and Gant. 3,069,082.
Vroom, Harold B. 3,053,441.
Veer, Willem L. C., to Organon Inc. Biologically active compounds and process of preparing same. 3,033,877, 5–8–62, Cl. 260—345.8.
Veghte, Henry, Jr. Article of hand wear. 3,064,266, 11–20–62, Cl. 2—158.
Vegors, Lester S.: *See*—
Cook, Fred E., and Vegors. 3,022,060.
Vegors, Lester S. Fluid pressure measuring device. 3,017,939, 1–23–62, Cl. 177—208.
Vegter, Geert C., and A. M. Thrush, to Shell Oil Co. Organophosphorus insecticides. 3,050,438, 8–21–62, Cl. 167—22.
Vegter, Geert C., and M. M. De Brabander, to Shell Oil Co. Separation and purification of isomeric dihydroxy diphenyl sulfones. 3,065,274, 11–20–62, Cl. 260—607.
Vehicules et Travaux VETRA: *See*—
Blanchard, Jean, and Douchet. 3,067,372.
Vehling, Robert W., 50% to J. F. Gleichman. Fluid drive motor. 3,027,139, 3–27–62, Cl. 253—105.
Veis, Arthur: *See*—
De La Burde, Roger, and Veis. 3,055,790.
Veit, Karl, to Robert Bosch G.m.b.H. Motion picture apparatus. 3,029,687, 4–17–62, Cl. 88—17.
Veitch, Edward W.: *See*—
Hoberg, George G., Van Andel, and Veitch. 3,050,717.
Veitch, John D., to Monsato Chemical Co. Aftertreatment of wet-spun acrylonitrile polymer filaments with aqueous zinc oxide solution. 3,061,398, 10–30–62, Cl. 8—97.
Veitel, Robert D., and V. J. Palmer, to Bruner Corp. Strainer. 3,037,633, 6–5–62, Cl. 210—232.
Veith, Werner: *See*—
Nagel, Horst, and Veith. 3,038,712.
Veith, Werner, to Siemens and Halske Aktiengesellschaft. Single-beam color television picture tube. 3,041,489, 6–26–62, Cl. 313—68.
Velasques Nederland N.V.: *See*—
Grosstelnbeck, Rolf, and Holtz. 3,025,860.
Velasquez, Robert L. Store systems. 3,052,075, 9–4–62, Cl. 53—259.
Veldhuis, Benjamin: *See*—
Beames, Geoffrey H., Gilbert, Richardson, and Veldhuis. 3,034,952.
Veldkamp, Jean H., to N.V. Hollandse Signaalapparaten. Alvin, Walter D., and Smith. 3,028,305.
Veldkamp, William: *See*—
Tazelaar, Adrian P., and Veldkamp. 3,044,932.
Velez, Rafael A.: *See*—
Mendez, Boabdil, and Velez. 3,055,445.
Velgos, Robert, to Michigan Chemical Corp. Method for the production of 1-dimethylamino-2-chloroalkyl hydrochlorides. 3,025,325, 3–13–62, Cl. 260—583.
Veling, William F. Cardiac monitor. 3,052,233, 9–4–62, Cl. 128—2.1.
Velinsky, Stanislav J. Fabric fastener. 3,045,310, 7–24–62, Cl. 24—263.
Vellahn, Harry F.: *See*—
Brucker, Carl, and Vellahn. 3,039,123.
Vellekamp, John H.: *See*—
Musser, David M., and Vellekamp. 3,048,500.
Musser, David M., and Vellekamp. 3,057,674.
Velley, Georges C., to Laboratoires Millot. Process for separating endocellular components and a composition produced thereby. 3,048,522, 8–7–62, Cl. 167—74.6.
Vellins, Cyril E.: *See*—
Berrie, Alistair H., and Vellins. 3,053,826.
Vellins, Cyril E., to Imperial Chemical Industries Ltd. Copper complex monoazo dyes containing a monohalogenotriazinyl substituent. 3,065,221, 11–20–62, Cl. 260—146.
Velluz, Leon: *See*—
Amiard, Gaston, Goffinet, Heymes, Martel, and Velluz. 3,035,064.
Amiard, Gaston, Martel, Heymes, and Velluz. 3,024,271.
Muller, Georges, Allais, and Velluz. 3,048,592.
Muller, Georges, and Velluz. 3,032,563.
Muller, Georges, and Velluz. 3,067,217.
Velluz, Leon, G. Muller, and A. Allais, to Les Laboratoires Francois de Chemiotherapie. 12-aza-deserpidine and intermediates and process therefor. 3,018,286, 1–23–62, Cl. 260—240.
Velluz, Leon, G. Nomine, and L. Penasse, to Roussel-UCLAF Societe Anonyme. Process for preparing N-desulfoheparin. 3,033,750, 5–8–62, Cl. 167—74.
Velluz, Leon, G. Nomine, and D. Bertin, to UCLAF. Heparylureas and preparation thereof. 3,033,751, 5–8–62, Cl. 167—74.
Velluz, Leon, G. Muller, and A. Allais, to Roussel-UCLAF, S.A. Substituted reserpine and process of making the same. 3,047,578, 7–31–62, Cl. 260—287.
Velluz, Leon, R. Joly, R. Bucourt, and C. Fabignon, to Roussel-UCLAF, Societe Anonyme. Process for the preparation of aromatic sulfones. 3,052,708, 9–4–62, Cl. 260—456.
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Velourit Corp.: *See*—
Viscardi, John. 3,069,285.
Velsicol Chemical Corp.: *See*—
Carlson, Arthur W. 3,025,328.
Dissen, Israel J. 3,062,800.
Hanna, Delbert L. 3,062,877.
Ordas, Eugene P. 3,062,709.
Regenstein, Joseph, Jr. 3,062,636.
Richter, Sidney B. 3,020,146.
Richter, Sidney B. 3,050,440.
Richter, Sidney B. 3,062,704.
Richter, Sidney B., and Goldman. 3,036,114.
Tapas, John C., and Wilks. 3,062,782.
Trademan, Leo, Katz, and Nielsen. 3,056,722.
Velte, Andre J.: *See*—
Charles, Daniel R., Velte, Dreyfus, and Pamelard. 3,041,840.
Veltfort, Theodore E., Jr.: *See*—
Jurs, Albert E., Jr., and Veltfort. 3,045,488.
Veltre, Albert P.: *See*—
Gardner, Kenneth E., Veltre, and Gerich. 3,064,612.
Velvel, William E., to E. I. du Pont de Nemours and Co. Mechanism for stacking sheets. 3,046,008, 7–24–62, Cl. 271—68.
Vely, Victor G.: *See*—
Neher, Maynard B., and Vely. 3,066,997.
Venables, Herbert J., III: *See*—
Schoene, Fred A., and Venables. 3,025,748.
Venables, John D., to Union Carbide Corp. Method of recording an image. 3,054,731, 9–18–62, Cl. 204—15.
Vend-A-Box, Inc.: *See*—
Gastright, Frank A. 3,024,583.
Gastright, Frank A. 3,024,710.
Gastright, Frank A. 3,044,371.
Venditti, Gaston. Sewing machines. 3,015,289, 1–2–62, Cl. 112—2.
Vendl, Thomas: *See*—
Birkenbach, Eugene J., Brown, Vendl, and Pfeiffer. 3,049,183.
Vendo Co., The: *See*—
Childers, Spencer L., and Tober. 3,043,475.
Craven, Herman R. 3,066,410.
Gore, Le Roy D., and Barnes. 3,021,685.
McNeely, Wilbur C. 3,022,719.
Torres, David. 3,026,002.
Vend-O-Print Inc.: *See*—
Kent, Richard P., and Neidig. 3,062,406.
Venema, Harry J.: *See*—
Seven, Marvin J. and R. P., and Venema. 3,052,756.

Venghiattis, Alexis, to Dresser Industries, Inc. Hydraulic perforating gun. 3,066,736, 12–4–62, Cl. 166—55.1.
Venkataramaraj, Subbaraju : *See*—
Underwood, William F., and Venkataramaraj. 3,023,126.
Venn, Douglas A., to United States of America, Navy. Wide range frequency and phase control system. 3,065,430, 11–20–62, Cl. 331—13.
Ventco, Inc. : *See*—
Woods, Robert L. 3,037,276.
Ventilatorverken, A.-B. : *See*—
Bogren, Sven. 3,033,192.
Vento, Salvatore. Foldable clothes basket holder. 3,028,136, 4–3–62, Cl. 248—293.
Ventrola Mfg. Co. : *See*—
Nash, Albert E. 3,028,475.
Ventura Processors : *See*—
Platt, William C., and Poston. 3,058,887.
Veraldi, Lewis C. : *See*—
Muller, George H., and Veraldi. 3,033,588.
Veras, Demoeritos J., to General Electric Co. Shield mounting arrangement for a vacuum circuit interrupter. 3,048,-682, 8–7–62, Cl. 200—144.
Verba, Richard J., H. V. Schweitzer, to Schweitzer Electrostatic Co. Electrostatic atomizing head. 3,057,558, 10–9–62, Cl. 239—15.
Verbakel, Martinus, to Koninklijke Vereenigde Tabaksindustrieen Mignot & de Block N.V. Machine for the manufacture of cigars having conical or spherical fire-ends. 3,064,658, 11–20–62, Cl. 131—29.
Verbanc, John J. : *See*—
Cenedes, Ernest, and Verbanc. 3,021,306.
McShane, Herbert F., Jr., and Verbanc. 3,041,364.
Verbanic, Carl J., C. T. Bean, Jr., and P. Robitschek, to Hooker Chemical Corp. Unsaturated esters of fluorinated glycols. 3,055,932, 9–25–62, Cl. 260—486.
Verbinski, Victor V., to General Electric Co. Flaw detection. 3,025,399, 3–13–62, Cl. 250—83.3.
Verbish, Alberta L. Suture rack. 3,033,156, 5–8–62, Cl. 116—133.
Verbois, Terrace G. : *See*—
Cull, Neville L., Hunter, Verbois, and Ray. 3,048,562.
Ver Bryck, James C. : *See*—
Davis, Clyde O., Johnson, and Ver Bryck. 3,062,158.
Verburg, Hendrik : *See*—
Voetter, Heinz, and Verburg, and Zuiderweg. 3,062,517.
Verderame, Frank D., and K. R. Fisch. Determination of the thermal decomposition rates of compounds. 3,028,747, 4–10–62, Cl. 73—15.
Verderber, Joseph. Quick acting clamping device. 3,036,-555, 5–29–62, Cl. 121—38.
Verderber, Joseph. Fluid-actuated clamping apparatus. 3,041,063, 6–26–62, Cl. 269—26.
Verdier, Andre L., Roller mills, calenders and like roller machines. 3,066,876, 12–4–62, Cl. 241—159.
Verdier-Dufour, Jean F. M., R. A. P. Meslier, and A. P. D. Thiery, to Societe Metallurgique Llotard Freres. Bottle for a liquefied combustible gas. 3,059,672, 10–23–62, Cl. 141—353.
Verdol, Joseph A., to Sinclair Refining Co. Cyclic carbonate from olefin. 3,025,305, 3–13–62, Cl. 260—340.2.
Verdol, Joseph A., to Sinclair Research, Inc. Lubricating oil composition. 3,036,003, 5–22–62, Cl. 252—33.4.
Verdol, Joseph A., to Sinclair Refining Co. Polymeric phenate salt and lubricant containing same. 3,057,800, 10–9–62, Cl. 252—42.7.
Vereenigde Draadfabrieken, N.V. : *See*—
Fokkinga, Johan D. 3,031,006.
Vereinigte Aluminum-Werke Aktiengesellschaft : *See*—
Heiling, Werner, and Lay. 3,033,768.
Vereinigte Glanzstoff-Fabriken AG : *See*—
Heisenberg, Erwin, Siggel, and Lotz. 3,037,050.
Indest, Heinz and Meyer. 3,048,635.
Jurgeleit, Wolfgang. 3,048,465.
Kleekamm Fritz, and Siggel. 3,018,608.
Kotte, Willy. 3,047,247.
Lotz Rudolf. 3,037,048.
Lotz, Rudolf. 3,070,519.
Meyer, Wilhelm. 3,030,851.
Muller, Hugo, Meyer, and Meier. 3,036,490.
Taub, Horst, and Wiloth. 3,027,355.
Vereinigte Kapselfabriken Nackenheim G.m.b.H. : *See*—
Dreiss, Philipp. 3,024,934.
Vereinigte Leichtmetall-Werke Gesellschaft mit beschrankter Haftung : *See*—
Bauer, Heinrich. 3,044,164.
Roth, Walter. 3,055,067.
Vereinigte Metallwerke Ranshofen-Berndorf Aktiengesellschaft : *See*—
Mader, Herbert. 3,065,051.
Vereinigte Osterreichische Eisen- und Stahlwerke Aktiengesellschaft : *See*—
Derntl, Josef. 3,031,298.
Puxkandl, Peter. 3,043,470.
Rinesch, Rudolf F. 3,028,232.
Wiener, Rainer. 3,047,129.
Vereinigte Papierwerke Schickedanz & Co. : *See*—
Leupold, Curt W., Mohr, and Sponsel. 3,025,203.
Vereinigte Werkzeugmaschinenfabriken A.G. : *See*—
Ohrnberger, Robert. 3,058,559.
Ohrnberger, Robert. 3,064,758.
Veres, Frank, to Owens-Illinois Glass Co. Method for producing silicon. 3,057,691, 10–9–62, Cl. 23—223.5.
Vereyken, Franciscus A. Skating rink and method for providing the same. 3,015,938, 1–9–62, Cl. 62—66.
Verger, Nathan. Magnetic switch. 3,017,473, 1–16–62, Cl. 200—87.
Vergez, Jules P., Jr., to Texas Instruments Inc. Transistorized variable speed motor control. 3,064,175, 11–13–62, Cl. 318—341.
Vergobbi, John G., to Pneumatic Scale Corp., Ltd. Web feeding apparatus. 3,065,675, 11–27–62, Cl. 93—36.01.
Vergobbi, John G., to Pneumatic Scale Corp., Ltd. Web feeding and splicing apparatus. 3,065,782, 11–27–62, Cl. 156—504.
Verhagen, Catharina M. C. : *See*—
Koelmans, Hein, and Verhagen. 3,060,128.
Verhagen, Edvard L., to The Regina Corp. Electric motor brush connection. 3,026,434, 3–20–62, Cl. 310—249.
Verhagen, Jan : *See*—
Ensink, Johannes, and Verhagen. 3,024,313.
Verhappen, Jacobus Th., to Koninklijke Vereenigde Tabaksindustrieen Mignot & de Block N.V. Tobacco threshing-winnowing machines. 3,043,315, 7–10–62, Cl. 131—146.
Verheijden, Marinus G. : *See*—
Repko, Jan D., and Verheijden. 3,015,765.
Verheul, Maarten M. Double check valve for standpipe use. 3,053,278, 9–11–62, Cl. 137—613.
Verheyden, Albert, and P. Ochsner. Process for preparing polybutadienes. 3,031,441, 4–24–62, Cl. 260—94.3.
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Verheyden, Jean, to Commissariat a l'Energie Atomique. Multiway distributor-apparatus. 3,031,110, 4–24–62, Cl. 222—330.
Verheyden, Jean A., to Commissariat a l'Energie Atomique. Taking off liquids. 3,064,672, 11–20–62, Cl. 137—147.
Verhoeff, Jacob, to North American Philips Co., Inc. Overload coupling. 3,023,871, 3–6–62, Cl. 192—56.
Verhoeven, Herman K. M., to International Standard Electric Corp. Opening device for document carriers. 3,050,917, 8–28–62, Cl. 53—381.
Verhoota, Robert J. Support. 3,021,100, 2–13–62, Cl. 248—23.
Verhulst, G. J., Reneedling Co., Inc. : *See*—
Verhuist, Gaston J. 3,042,572.
Verhulst, Gaston J., to G. J. Verhulst Reneedling Co., Inc. Method of assembling and cementing pins in the groove of a fishing bar. 3,042,572, 7–3–62, Cl. 156—250.
Verkruissen, Marie F., to North American Philips Co., Inc. Transistor amplifier. 3,061,793, 10–30–62, Cl. 330—27.
Verley, Guy M., to Sinclair Refining Co. Ester based lubricant composition containing phenothiazine and aminopyridine. 3,038,858, 6–12–62, Cl. 252—47.
Verley, Guy M., to Sinclair Research, Inc. Lubricating oil detergency testing. 3,044,860, 7–17–62, Cl. 23—230.
Verlin, Bernard M., to Poplar Textiles, Inc. Stocking package. 3,044,617, 7–17–62, Cl. 206—79.
Vermehren, Carl E. and T. L. M. Cortical hormone derivatives of phosphoric acid and alkali metal salts thereof. 3,064,016, 11–13–62, Cl. 260—397.45.
Vermehren, Thomas L. M. : *See*—
Vermehren, Carl E. and T. L. M. 3,064,016.
Vermeulen, Roelof : *See*—
Kleis, Derk, and Vermeulen. 3,015,701.
Vermiculite Mfg. Co. : *See*—
Jones, Owen M. 3,015,192.
Vermillion, Herbert E. : *See*—
Newman, Stanley R., Vermillion, Bailey, and Alpert. 3,031,279.
Vermont Research Corp. : *See*—
Stover, Richard A. 3,047,866.
Vernay Laboratories, Inc. : *See*—
Russell, Norton A. 3,023,785.
Verno Corp. : *See*—
Williams, Vernon H. 3,031,047.
Verneaux, Jean E. P., ¾ to Chantiers Navals Franco-Belges. Method of pushing trains of pushed elements and couplers between elements for carrying out said method. 3,062,170, 11–6–62, Cl. 114—235.
Vernet, Sergius : *See*—
Asakawa, George, and Vernet. 3,016,691.
Pressel, Earl L., and Vernet. 3,035,444.
Vernet, Sergius, to Antioch College. Squeeze-push power element. 3,016,747, 1–16–62, Cl. 73—368.3.
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Vernet, Sergius, to Antioch College. Power element. 3,064,-477, 11–20–62, Cl. 73—368.3.
Vernet, Sergius, and G. Asakawa ; said Vernet assor. to Antioch College. Power element having novel force-transmitting plug. 3,059,475, 10–23–62, Cl. 73—368.3.
paratus. 3,058,093, 10–9–62, Cl. 340—146.3.
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Vernon, Harcourt C., and R. R. Walsh, to E. I. du Pont de Nemours and Co. Character recognition method and ap-
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Vernon, Richard L. Portable waste food grinder. 3,048,340, 8–7–62, Cl. 241—46.
Vernon Roy L. : *See*—
Holmes, George B., Sinclair, Alexander, and Vernon. 3,016,663.

Ver Nooy, Burton, to L. D. Williamson Inc. Non-welded pig assembly. 3,025,118, 3–13–62, Cl. 309—4.

Ver Nooy, Burton, to T. D. Williamson, Inc. Pipe line plugger. 3,025,885, 3–20–62, Cl. 138—94.

Ver Nooy, Burton, to T. D. Williamson, Inc. Valve. 3,047,-266, 7–31–62, Cl. 251—175.

Ver Nooy, Burton, to T. D. Williamson, Inc. Pipeline scraping and batching device. 3,047,895, 8–7–62, Cl. 15—104.8.

Ver Nooy, Burton, to T. D. Williamson, Inc. Caliper pig. 3,052,034, 9–4–62, Cl. 33—175.

Ver Nooy, Burton, to T. D. Williamson, Inc. Drilling apparatus. 3,068,725, 12–18–62, Cl. 77—38.

Ver Nooy, Burton, to T. D. Williamson, Inc. Drilling machine. 3,068,726, 12–18–62, Cl. 77—41.

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Verrando Bruera. Fat and oil extraction process. 3,064,018, 11–13–62, Cl. 260—412.4.

Verschoyl, L. R., to International Milling Co. Programming calculator. 3,018,950, 1–30–62, Cl. 235—61.

Versen, Kurt, to Kurt Versen Co. Swivel for lighting fixtures. 3,030,128, 4–17–62, Cl. 285—185.

Versen, Kurt, Co.: *See*—
Versen, Kurt. 3,030,128.

Versluis, Roeland, to Shell Oil Co. Tankers. 3,039,418, 6–19–62, Cl. 114—74.

Versluis, Roeland, to Shell Oil Co. Sectional contacting tray. 3,039,751, 6–19–62, Cl. 261—114.

Verson Allsteel Press Co.: *See*—
Grankowski, Eugene. 3,033,143.
Luenser, Kurt K. 3,056,481.

Verson, Harold. Solar system mechanism. 3,029,528, 4–17–62, Cl. 35—45.

Verster, Nico F., to North American Philips Co., Inc. Arrangement for accelerating particles. 3,024,379, 3–6–62, Cl. 313—62.

Verstraten, Jan, to North American Philips Co., Inc. High-frequency furnaces. 3,027,442, 3–27–62, Cl. 219—10.55.

Verstrijden, Ulrich: *See*—
Koopal, Sieds, Verstrijden, Pesch, and Deumens. 3,056,-830.
Ottenheym, Johannes H., Pesch, and Verstrijden. 3,052,-670.
Pesch, Willem, and Verstrijden. 3,047,564.

Vertes, Paul, J. Sauteron, and M. Delange, to Commissariat a l'Energie Atomique. Methods and apparatus for the obtainment of uranium fluoride. 3,069,227, 12–18–62, Cl. 23—14.5.

Vertical Blinds Corp. of America: *See*—
Cayton, Robert J. 3,038,534.
Cayton, Robert J. 3,054,446.

Vertimax Ltd.: *See*—
Anderson, James. 3,018,629.

Vervest, Wilhelmus L.: *See*—
Waarle, Godfried H., and Vervest. 3,069,611.

Verway, C. J., Co.: *See*—
Verway, Clair J. 3,050,083.

Verway, Clair J., to C. J. Verway Co. Metering valve block. 3,050,083. 8–21–62, Cl. 137—625.18.

Veryser, Harry C.: *See*—
Gruschow, Allan C., and Veryser. 3,045,384.

Vesak, Joseph, to Crown Zellerbach Canada Ltd. Machine for making glued cell formers. 3,049,167, 8–14–62, Cl. 156—548.

Vesak, Joseph, to Unipak Cartons Ltd. Cellular type carton. 3,056,537, 10–2–62, Cl. 229—15.

Vesce, Vincent C.: *See*—
Woodlock, Paul B., Santimauro, and Vesce. 3,020,279.

Vesco Ltd.: *See*—
Webb, Leslie. 3,070,148.

Vesely, Frank H. Bowling pin cutting mechanism for lathes. 3,034,545, 5–15–62, Cl. 142—47.

Vesely, Jerome A., to Universal Oil Products Co. Preparation of 1-alkyl-1-cyclohexenes. 3,016,409, 1–9–62, Cl. 260—666.

Vesely, Kenneth D.: *See*—
Stine, Laurence O., Vesely, and Schoenfeld. 3,058,906.

Vesper, Daniel M., to Phillips Petroleum Co. Pneumatic computing relay. 3,059,846, 10–23–62, Cl. 235—61.

Vesper, Daniel M., to Phillips Petroleum Co. Analyzer and fluid sampling system. 3,069,898, 12–25–62, Cl. 73—23.

Vesper, Daniel M., and G. E. Price, to Phillips Petroleum Co. Pneumatically actuated pump and sampling system. 3,039,-309, 6–19–62, Cl. 73—421.

Vesper, Walter, R. Schinzinger, and L. J. Bauger, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Device for the air intake into the primary zone of a combustion chamber in a turbo-machine. 3,026,675, 3–27–62, Cl. 60—39.74.

Vessa Ltd.: *See*—
Waggott, John B. 3,039,116.

Vessio, Michael N.: *See*—
Hoek, Adrian G., and Vessio. 3,018,147.

Vest, Marvin L., Jr., to United Aircraft Corp. Rocket wall construction. 3,069,847, 12–25–62, Cl. 60—35.6.

Vest, Robert D., to E. I. du Pont de Nemours and Co. Process for preparing thiophene tetracarboxylic acid. 3,053,853, 9–11–62, Cl. 260—332.2.

Vestal, David D.: *See*—
Hyder, Clarence R., Jr., and Vestal. 3,020,835.

Vester, Benjamin H., Jr., to Westinghouse Electric Corp. Pulse integration apparatus. 3,036,293, 5–22–62, Cl. 340—174.

Vester, Klaus: *See*—
Fischer, Kurt, and Vester. 3,067,256.

Vesterholt, Inge K. and J. K. Chair having a jointless seat. 3,069,204, 12–18–62, Cl. 297—456.

Vesterholt, Jorgen K.: *See*—
Vesterholt, Inge K. and J. K. 3,069,204.

Vesterman, Anatole: *See*—
Allais, Andre, Girault, and Vesterman. 3,056,721.

Vesuvius Crucible Co.: *See*—
Murton, Crawford B. 3,044,132.

Vetere, Rudolph: *See*—
Mitthauer, John R., and Vetere. 3,052,984.

Vetrano, James B., to United States of America, Atomic Energy Commission. Method of making delta zirconium hydride monolithic moderator pieces. 3,018,169, 1–23–62, Cl. 23—204.

Vetrocoke, S.p.A.: *See*—
Giammarco, Giuseppe. 3,031,258.
Giammarco, Giuseppe. 3,037,844.

Vetsch, Rudolf: *See*—
Blake, Charles W., and Vetsch. 3,018,115.

Vetsch, Rudolf, to The Warner & Swasey Co. Speed selector devices. 3,028,763, 4–10–62, Cl. 74—371.

Vetter, James L.: *See*—
Kichline, Thomas P., and Vetter. 3,052,549.

Veyrie, Charles, to Compagnie Generale d'Electricite. Apparatus for cooling granular material. 3,015,219, 1–2–62, Cl. 62—381.

Veyrie, Charles, to Compagnie Generale d'Electricite. Storage and handling device. 3,067,890, 12–11–62, Cl. 214—300.

Viale, Ugo: *See*—
Ugolini, Giorgio, and Viale. 3,016,154.

Vialle, René, to Societe Alsacienne de Constructions Mecaniques. Textile fiber drawing device. 3,051,997, 9–4–62, Cl. 19—130.

Vian, Nydia B. Lint remover. 3,040,352, 6–26–62, Cl. 15—104.

Vian-Ortuño, Angel, to Instituto Nacional de Industria. Sulfur dioxide recovery from gases employing organic bases. 3,047,364, 7–31–62, Cl. 23—178.

Viator, Charles F. Golf practicing device. 3,049,353, 8–14–62, Cl. 273—182.

Vibert, Andre C., to Societe Francaise d'Equipments pour la Navigation Aerienne S.F.E.N.A. Gyroscopic horizons 3,039,200, 6–19–62, Cl. 33—204.

Vibratechniques S.A.: *See*—
Fontaine, Michel A. I. 3,030,079.

Vibrator Mfg. Co.: *See*—
Matson, Carl G. 3,047,169.

Vibrite Corp.: *See*—
Stein, Elmer L. 3,032,906.

Vib-Ritter Co., Inc.: *See*—
Amyx, Edwin H. 3,055,294.

Vibro-Meter A.G.: *See*—
Rohrbach, Christof. 3,022,479.

Vic Mfg. Co.: *See*—
Victor, Irving. 3,029,612.

Vic, Raymond, to Compagnie Industrielle des Piles Electriques Cipel. Device for testing the residual power capacity of a battery supplying a glow discharge tube or the like. 3,063,004, 11–6–62, Cl. 324—29.5.

Vicany, John. Occupant propelled shopping cart. 3,044,801, 7–17–62, Cl. 280—202.

Vice, Charles L.: *See*—
Johnson, George N., and Vice. 3,016,429.

Vichi, Ettore. Sanding and polishing machine for working on curved and shaped profile pieces. 3,064,394, 11–20–62, Cl. 51—101.

Vichill, Ralph J., to General Electric Co. Base assembly for electric lamps. 3,047,765, 7–31–62, Cl. 313—318.

Vicik, Frederick: *See*—
Lang, Paul H., and Vicik. 3,040,318.

Vicik, Otto A., and J. S. Serocki. Depth and pressure gauge. 3,046,784, 7–31–62, Cl. 73—300.

Vick, Peter S.: *See*—
Douglas, John L., Hasler, and Vick. 3,029,383.

Vick, Ralph L., to The Bendix Corp. Combination hydraulic power valve and master cylinder. 3,034,301, 5–15–62, Cl. 60—54.6.

Vickerman, Wynn S. Tool grinding fixture. 3,039,244, 6–19–62, Cl. 51—219.

Vickers-Armstrongs (Aircraft) Ltd.: *See*—
Avis, Arthur S. 3,052,436.
Boorer, Norman W. 3,023,983.
Brennan, Maurice J. 3,023,984.
Piper, John W., and Fryer. 3,043,197.
Wallis, Barnes N. 3,047,255.

Vickers-Armstrongs (Engineers) Ltd.: *See*—
Jeeves, Arthur G. 3,031,248.
Kirby, Wilfred, and Daniels. 3,027,816.

Vickers Inc.: *See*—
Badenoch, Benjamin W. 3,046,897.
Badenoch, Benjamin W., and Stewart. 3,046,898.
Elston, George F., and Tess. 3,037,527.
Gardiner, Duncan B., and Hill. 3,015,343.
Gordon, Richard O., and Keir. 3,016,708.
Holzbock, Werner G. 3,064,682.
Pettibone, Raymond B. 3,042,075.
Steinitz, Stephan. 3,061,770.

Vickers, John H.: *See*—
Clark, Francis A., and Vickers. 3,062,255.
Vickers, Paul T.: *See*—
Bubniak, William C., Haushalter, Ricketts, Turunen, and Vickers. 3,057,604.
Vickers, Roy G.: *See*—
Kuijvenhoven, Arend W., and Vickers. 3,051,056.
Vickers Ruwolt Proprietary Ltd.: *See*—
Bennett, Norman J. H. 3,043,349.
Vickers, Stanley J., to American Brake Shoe Co. Method and apparatus for forging. 3,059,535, 12–18–62, Cl. 219—154.
Vickerson, Charles S. Behind-ear hearing aid. 3,045,073, 7–17–62, Cl. 179—107.
Vickery, Edgar H., to Fisher Governor Co. Ball valve. 3,023,783, 3–6–62, Cl. 137—625.12.
Vickery, Edgar H., to Fisher Governor Co. Sealed ball valve. 3,036,600, 5–29–62, Cl. 137—625.12.
Vickery, John P., to Power Jets (Research & Development) Ltd. Pressure exchanger cell-ring having energy conversion means. 3,055,577, 9–25–62, Cl. 230—116.
Vickerys Ltd.: *See*—
Scott, Harold E. B. 3,065,486.
Scott, Harold E. B. 3,065,487.
Vic-Mar Corp.: *See*—
Shrewsbury, Robert S. 3,022,016.
Shrewsbury, Robert S. 3,030,995.
Victaulic Co. of America: *See*—
Costanzo, Frank X. 3,020,068.
Frost, Raymond B., and Piatek. 3,015,502.
Frost, Raymond B., and Sexton. 3,024,046.
Piatek, Edward W. 3,034,029.
Victor Adding Machine Co.: *See*—
Bick, Kenneth L. 3,029,015.
Sundstrand, Oscar J. 3,024,975.
Sundstrand, Oscar J. 3,030,010.
Victor Chemical Works: *See*—
Lauck, Robert M., and Dock Fon Toy. 3,018,180.
Schlaeger, Julian R., and Netherton. 3,066,056.
Steinhauer, Roger C. 3,029,283.
Toy, Arthur D. F., and Cooper. 3,029,282.
Walsh, Edward N. 3,036,109.
Zboralski, Ulrich. 3,029,148.
Victor Co. of Japan, Ltd.: *See*—
Moriya, Ikuro. 3,020,355.
Victor Comptometer Corp.: *See*—
Flagge, Andrew. 3,022,939.
Lorenz, Alfred E. 3,025,065.
Lorenz, Alfred E. 3,047,672.
Morris, Howard E. 3,035,763.
Parris, George F. 3,060,278.
Scheuzger, Peter. 3,035,118.
Trost, Richard E. 3,039,777.
Zenner, Raymond E., and Morris. 3,035,765.
Victor Development Co.: *See*—
McNeill, Alvin L. 3,020,049.
Victor, Irving, to Vic Mfg. Co. Cooling system for fluids. 3,029,612, 4–17–62, Cl. 62—185.
Victor, John: *See*—
Maynier, Stella, and Victor. 3,015,836.
Victor, Juan R.: *See*—
Gomez, Carlos, and Victor. 3,019,553.
Victor Mfg. & Gasket Co.: *See*—
Barrett, Edward F. 3,059,936.
Kosatka, Thomas O. 3,022,080.
Kosatka, Thomas O. 3,022,081.
Kosatka, Thomas O. 3,049,357.
Victor Metal Products Corp.: *See*—
Brumbach, Joseph F. 3,055,977.
Monroe, Ernest M., and Smith. 3,069,827.
Victor Vending Corp.: *See*—
Schaef, Harold M. 3,036,732.
Victor, Victor. Measuring and leveling vessels. 3,049,926, 8–21–62, Cl. 73—429.
Victora, Hans: *See*—
Saurer, Hermann, and Victora. 3,024,598.
Victoria Machine Tool Co. Ltd.: *See*—
Gronau, Hans. 3,022,677.
Victoria Precision Works Co. Ltd.: *See*—
Stanimir, William. 3,047,333.
Victory Engineering Corp.: *See*—
Oppenheim, Ben J. 3,025,706.
Victory Metal Mfg. Co.: *See*—
Constantini, Anthony R., and Di Angelus. 3,019,620.
Constantini, Anthony R., and Di Angelus. 3,059,446.
Victory Metal Mfg. Corp.: *See*—
Constantini, Anthony R. and Di Angelus. 3,019,620.
Constantini, Anthony R., and Di Angelus. 3,059,446.
Victory Oil Co.: *See*—
Alcorn, Irwin W., Graham, and Christenson. 3,054,267.
Victrylite Candle Co.: *See*—
Kranc, Casimir, and Carrick. 3,034,174.
Kranc, Casimir, and Carrick. 3,058,163.
Vidal, Pierre, R. Mignot, and L. Brunelet; said Mignot and Brunelet assors. to said Vidal. Method and apparatus for freezing liquid food products. 3,052,557, 9–4–62, Cl. 99—192.
Vidoni, Francis J.: *See*—
Lutz, John A., and Vidoni. 3,016,654.
Vie, Jerry D.: *See*—
Webb, William H., and Vie. 3,038,844.

Vieaux, Woodrow W. Clamp for mounting fishing accessories on small boats. 3,015,467, 1–2–62, Cl. 248—226.
Vieceli, Joseph L.: *See*—
Jepson, Ivar, and Vieceli. 3,030,485.
Vieceli, Joseph L., to Sears, Roebuck and Co. Brewer for coffee, etc. 3,040,648, 6–26–62, Cl. 99—311.
Vie-Del Grape Products Co.: *See*—
Riddell, James L., and Nury. 3,052,546.
Viehe, Heinz G., to Union Carbide Corp. New method for the preparation of metalhalogenoacetylides. 3,053,911, 9–11–62, Cl. 260—665.
Vieli, Otto A., to W. H. Kreidl. Device for manufacturing foam. 3,043,670, 7–10–62, Cl. 23—285.
Vieli, Otto A., to Dr. W. H. Kreidl. Method of making a synthetic resin foam by forming material through a microporous substrate. 3,063,952, 11–13–62, Cl. 260—2.5.
Vielle, Eugene E., to Avei Corp. Geneva. Transponder ranging apparatus. 3,035,261, 5–15–62, Cl. 343—6.5.
Vielle, John: *See*—
Freedman, Harold P., Vielle, and Wiersma. 3,035,260.
Vielstich, Wolf, W. Rottig, and H. Spengler, to Ruhrchemie Aktiengesellschaft. Process for producing heavy water. 3,019,088, 1–30–62, Cl. 23—204.
Vielstich, Wolf, E. Justi, and A. Winsel, to Accumulatoren-Fabrik Aktiengesellschaft, and Siemens-Schuckert-Werke Aktiengesellschaft. Process for using the decomposition energy of amalgams for electrolysis of metal salts by using reversible hydrogen electrodes. 3,068,157, 12–11–62, Cl. 204—99.
Vienna, Paul C.: *See*—
Gainor, James W., and Vienna. 3,062,745.
Vienneau, Jacob J., and K. D. Beardsley, to General Electric Co. Method of making magnetic cores. 3,034,203, 5–15–62, Cl. 29—155.57.
Vieregge, Hendrik: *See*—
Arens, Josef F., Bos, and Vieregge. 3,030,359.
Vierendeel, Pierre: *See*—
Golde, Dimitri, and Vierendeel. 3,047,891.
Vierling, Otto, to Zeiss Ikon Aktiengesellschaft. Means for presenting stereo pictures for viewing. 3,039,358, 6–19–62, Cl. 88—29.
Viernstein, Lawrence J., to United States of America, Navy. Synchro switched magneitc amplifier. 3,058,051, 10–9–62, Cl. 323—89.
Vierthaler, Lawrence A., and A. E. Mages. Adhesive applicator. 3,025,830, 3–20–62, Cl. 118—243.
Viets, Charles W. Collapsible game table. 3,062,544, 11–6–62, Cl. 273—30.
Vievering, Hans: *See*—
Billen, Peter, Robra, Müller, and Vievering. 3,031,903.
Viewlex, Inc.: *See*—
Pollan, David. 3,015,251.
Treiss, George. 3,058,390.
Walter, Henry J. 3,035,485.
Walter, Henry J. 3,039,710.
Viezzoli, Giorgio, to Societa Minelba s.r.l. Snap device. 3,045,498, 7–24–62, Cl. 74—17.8.
Vifian, Paul R.: *See*—
Wood, Everett N., and Vifian. 3,055,501.
Vigano, Gianni, to La Meccanoptica Leonardo S.p.A. Cylindrical hinge for spectacles. 3,025,762, 3–20–62, Cl. 88—53.
Vigano, Gianni, to La Meccanoptica S.p.A. Arrangement for adjusting the slope of spectacle rims with reference to the sides. 3,064,530, 11–20–62, Cl. 88—53.
Vigh, John. Bath apparatus for treating and stimulating human body. 3,044,469, 7–17–62. Cl. 128—365.
Vigiano, Jack R. Parametric amplifiers with increased gain bandwidth product. 3,070,751, 12–25–62, Cl. 330—7.
Vigil, Juan G., to Lockheed Aircraft Corp. Collapsible spacecraft. 3,065,937, 11–27–62, Cl. 244—46.
Vignale, Michael J.: *See*—
Baer, Massimo, and Vignale. 3,055,860.
Vignati, Carlo: *See*—
Podesta, Armando, and Vignati. 3,020,690.
Podesta, Armando, and Vignati. 3,021,570.
Vignau, Michel: *See*—
Nomine, Gerard, Bertin, and Vignau. 3,056,811.
Nomine, Gerard, Bucourt, and Vignau. 3,052,672.
Vigneau, George F.: *See*—
Chick, Russell W., Christofferson, and Vigneau. 3,047,-933.
Vigneron, Pierre P. C., to Compagnie de Pont-A-Mousson. Apparatus for positioning and assembling pipe elements. 3,036,372, 5–29–62, Cl. 29—237.
Vignier, Serge L. E., to Boudet et Cie, and Compagnie Centrale de Mines et Metallurgie Sicli. Installation for the expansion of a liquefied gas. 3,053,054, 9–11–62, Cl. 62—52.
Vignos, Joseph P., and D. P. Shoultes, to International Business Machines Corp. Bipolar switching ring. 3,015,733, 1–2–62, Cl. 307—88.5.
Vignoul, Pierre A.: *See*—
Biloca, Georges A., and Vignoul. 3,029,923.
Vigor, Charles W.: *See*—
Holzwarth, James C., Hornaday, and Vigor. 3,019,516.
Hornaday, James R., Vigor, Tobin, and Holzwarth. 3,019,513.
Vigor, Charles W., to General Motors Corp. Exhaust valve steel. 3,020,152, 2–6–62, Cl. 75—126.
Vigorelli, Luigi. Design stitching sewing machine. 3,065,-716, 11–27–62, Cl. 112—158.

Viitanen, Veikko K., to FMC Corp. Method of and apparatus for handling cans having end beads. 3,040,491, 6–26–62, Cl. 53—26.
Viking Mfg. Co.: *See*—
De Graff, Peter. 3,037,294.
Viking of Minneapolis, Inc.: *See*—
Schober, Wayne E. 3,023,943.
Schober, Wayne E., and Anderson. 3,040,857.
Viking Pump Co.: *See*—
Camarata, Alfred A. 3,015,282.
Viking Tool Co., The: *See*—
Severson, Ole C. 3,027,623.
Severson, Ole C. 3,027,786.
Vilain, Charles. Loading and discharging installation for oil-tankers. 3,032,082, 5–1–62, Cl. 141—388.
Vilbajo, Jean, to A.V.R., Achat, Ventes, Representations, Societe Anonyme. Ejectable hinged sight for projectiles fitted to the muzzle of firearms. 3,056,352, 10–2–62, Cl. 102—65.2.
Vilbajo, Jean, to Achat, Ventes, Representations, Societe Anonyme, A.V.R. Combination firearm and grenade. 3,064,381, 11–20–62, Cl. 42—1.
Vilcsek, Herbert: *See*—
Heuck, Claus, Rochlitz, Schmidt, Vilcek, and Winter. 3,070,578.
Starck, Werner, Rochlitz, Vilcsek, and Winter. 3,058,-935.
Vilim, Rostislav: *See*—
Menšíková, Jítka, and Vilim. 3,035,035.
Villa, Carlo: *See*—
Piazzolla, Giovanni, and Villa. 3,064,689.
Villa, Nicholas J. Carton game devices. 3,051,488, 8–28–62, Cl. 273—105.
Villani, Antonio, to Draper Corp. Filling carrier for shuttleless looms. 3,025,886. 3–20–62, Cl. 139—122.
Villarreal, Enrique. Lineally-expansible thermostat for melting pots of type setting machines. 3,022,404, 2–20–62, Cl. 200—137.
Villars, Charles E., to The Dow Chemical Co. Preparation of phenoxyphenols. 3,056,842, 10–2–62, Cl. 260—613.
Villars, Claude P., to Bell Telephone Laboratories, Inc. Nonlinear conversion between analog and digital signals by a piecewise-linear process. 3,016,528, 1–9–62, Cl. 340—347.
Villars, Claude P., to Bell Telephone Laboratories, Inc. Encoders for PCM codes of base greater than two. 3,032,-610, 5–1–62, Cl. 178—43.5.
Villars, Claude P., to Bell Telephone Laboratories, Inc. Nonlinear PCM encoders. 3,065,422, 11–20–62, Cl. 325—141.
Villchur, Edgar M., to AR Inc. Voice coil and diaphragm support for high frequency loud-speaker. 3,033,945, 5–8–62, Cl. 179—115.5.
Ville, Jean A., and J. T. M. G. Bouzitat, to Societe Alsacienne de Constructions Mecaniques. Servo-resolvers. 3,015,446, 1–2–62, Cl. 235—189.
Villiers, Roland V.: *See*—
Neuhauser, William J., and Villiers. 3,067,073.
Villoresi, John, to Union Carbide Corp. Floating seat blowpipe nozzle. 3,053,312, 9–11–62, Cl. 158—27.4.
Vilmerding, John B., to Ingersoll-Rand Co. Escapement mechanism for fasteners. 3,061,147, 10 30–62, Cl. 221—268.
Vilter Mfg. Corp.: *See*—
Grant, Whitney L., and Deroche. 3,070,282.
Kocher, Erich J. 3,053,058.
Lonn, Joseph N. 3,022,642.
Vinal, Albert F.: *See*—
Dereska, Joseph S., Koehler, and Vinal. 3,057,760.
Vinal, Albert F., to Union Carbide Corp. Separator-electrolyte member. 3,025,334, 3–13–62, Cl. 136—86.
Vinal, Albert W., to International Business Machines Corp. Magnetic memory system. 3,021,511, 2–13–62, Cl. 340—174.
Vinal, Albert W., to International Business Machines Corp. Electronic amplifier. 3,048,790, 8–7–62, Cl. 330—29.
Vinal, Albert W., to International Business Machines Corp. Gate having strobe and signal inputs driven to saturation upon coincidence, with stretched output. 3,060,325, 10–23–62, Cl. 307—88.5.
Vinal, Francis E., and D. L. Brown, to United States of America. Lithium nickel ferrites. 3,038,860, 6–12 62, Cl. 252—62.5.
Vinal, Frederic A.: *See*—
Brox, Raymond L., and Vinal. 3,053,199.
Vinal, Leroy W., to E. I. du Pont de Nemours and Co. Automatic labeling machine. 3,039,516, 6–19–62, Cl. 156—361.
Vincelett, Philip S.: *See*—
Bowers, Kenneth, and Vincelett. 3,067,611.
Vincens, Rene, to Societe Civile de Recherches et d'Etudes Industrielles. Metal furnitures adapted to be disassembled. 3,042,473, 7–3–62, Cl. 312—257.
Vincent Bros. Pty. Ltd.: *See*—
Gregora, John. 3,029,567.
Vincent, David A., to Typha Products, Inc. Harvester for cattails. 3,038,287, 6–12–62, Cl. 56—23.
Vincent, David A., to Typha Products, Inc. Apparatus for recovering cattail fluff. 3,061,889, 11–6–62, Cl. 19—90.
Vincent, David A., to Typha Products, Inc. Method of making heat insulating material from cattail fibers. 3,063,125, 11–13–62, Cl. 28—72.
Vincent, Donald E. Double action pivoting door. 3,048,899, 8–14–62, Cl. 20—16.
Vincent, Edward T., and A. R. A. F. Ibrahim. Compression ignition engine. 3,039,446, 6–19–62, Cl. 123—32.
Vincent, George C., to Imperial Chemical Industries Ltd. Process for the production of alumina. 3,019,080, 1–30–62, Cl. 23—143.
Vincent, Germaine: *See*—
Le Boutet, Hubert, and Vincent. 3,068,425.
Warnecke, Robert R., and Vincent. 3,031,399.
Vincent, Gregory A.: *See*—
Meckrath, Henry G., and Vincent. 3,033,780.
Vincent, Harold L., to Dow Corning Corp. Method of coating metals with an aqueous solution of monoorganosilane. 3,061,467, 10–30–62, Cl. 117—127.
Vincent, Harvard B.: *See*—
Lusher, Kenneth G., McDavitt, and Vincent. 3,026,575.
Vincent, John N., to Continental Can Co., Inc. Package opening machine. 3,022,912, 2–27–62, Cl. 214—305.
Vincent, John N., and H. J. Kuntz, to Continental Can Co., Inc. Can package unloading machine. 3,022,913, 2–27–62, Cl. 214—310.
Vincent, Orville J. Circuit checker. 3,064,186, 11–13–62, Cl. 324—51.
Vincent, Renic P., to Pan American Petroleum Corp. Gas lift apparatus. 3,016,844, 1–16–62, Cl. 103—232.
Vincent, Renic P., to Pan American Petroleum Corp. Method and apparatus for lining pressure vessels. 3,047,065, 7–31–62, Cl. 166—14.
Vincent, Robert R., to Gardner-Denver Co. Percussive tool. 3,032,013, 5–1–62, Cl. 121—12.
Vinci, Ignatius R. Electric curbguard. 3,018,344, 1–23–62, Cl. 200—61.44.
Vinhun, Kristhun. Rust removing apparatus. 3,067,487, 12–11–62, Cl. 29—81.
Vineberg, Joseph H. Bag handle structure. 3,027,066, 3–27–62, Cl. 229—54.
Vineland Chemical Co.: *See*—
Schwerdle, Arthur. 3,030,199.
Schwerdle, Arthur. 3,056,821.
Schwerdle, Arthur. 3,068,088.
Viner, Charles G. Circulatory steam heating systems. 3,064,-901, 11–20–62, Cl. 237—9.
Vines, Oscar L. Bag valve. 3,022,932, 2–27–62, Cl. 229—62.5.
Vines, Oscar L., to Continental Paper Co. Flap seal box. 3,049,281, 8–14–62, Cl. 229—37.
Vinick, George. Banana packing means. 3,024,935, 3–13–62, Cl. 217—3.
Vining, Edward K., I. E. Hardin, and J. J. Secchitano, Jr., to Pacific Fire Extinguisher Co. Fire alarm system and apparatus. 3,061,825, 10–30–62, Cl. 340—227.
Vinkavich, Victor F. Hand truck. 3,045,842, 7–24–62, Cl. 214—84.
Vinnell Corp.: *See*—
Mason, William. 3,033,267.
Vinson, Paul, and G. R. Hagner, to Dynacor. Automatic honeycomb welding machine. 3,070,686, 12–25–62, Cl. 219—82.
Vinson, Roscoe C. Spectacle frame. 3,021,753, 2–20–62, Cl. 88—41.
Vinyl Products Ltd.: *See*—
Mayne, John E. O., Warson, and Levine. 3,025,253.
Viol, Gunter, and E. Hotes, to Vista G.m.b.H. Releasable lock for Venetian blinds and the like. 3,040,403, 6–26–62, Cl. 24—134.
Viola Industries, Inc.: *See*—
Fink, Wilmer G. 3,052,508.
Viola, Michael D., to The Vanta Co., Inc. Shirt with permanently attached collar. 3,031,678, 5–1–62, Cl. 2—116.
Viola, Vito, and C. Olson, to Friden, Inc. Tens-transfer mechanism. 3,022,947, 2–27–62, Cl. 235—133.
Violetta, Donald C.: *See*—
Erck, Louis J., Violetta, and Ban. 3,024,101.
Violette, Glen A.: *See*—
Violette, Roy L. 3,061,955.
Violette, Homer E.: *See*—
Aluise, Robert R., Webb, and Violette. 3,069,026.
Violette, Roy L., 50% to Glen A. Violette. Sloping attachment for road grader blade. 3,061,955, 11–6–62, Cl. 37—143.
Virden, John C., Co.: *See*—
Golko, Edward H. 3,025,391.
Moser, Carl M. 3,059,106.
Virga, Andrew: *See*—
Dama, Frank J., and Virga. 3,035,568.
Virgilio, Abramo, and C. Hengeller, to Lepetit S.p.A. Process for the manufacture of 6-demethyltetrecycline. 3,070,-514, 12–25–62, Cl. 195—80.
Virginia-Carolina Chemical Corp.: *See*—
Boyer, William P., Mangham, and Melton. 3,027,348.
Melton, Thomas M. 3,050,543.
Winslow, Charles E., Jr. 3,064,680.
Virgo, Peter C.: *See*—
Mosee, Richard W. E., Cookson, Virgo, and Miles. 3,058,-277.
Viriot, Jacques, and H. Pagniez, to Solvay & Cie. Process for the production of alpha-epichlorhydrin. 3,061,615, 10–30–62, Cl. 260—348.6.
Virkotype Corp.: *See*—
Berndt, Richard F. 3,069,284.
Virsberg, Lars-Goran, and A. Kelen, to Allmanna Svenska Elektriska Aktiebolaget. Coating for equalizing the potential gradient along the surface of an electric insulation. 3,066,180, 11–27–62, Cl. 174—127.

Virta, Norman A., to Triangle Package Machinery Co. Apparatus and method for making, filling, and sealing containers. 3,040,490, 6–26–62, Cl. 53—22.

Virtanen, Valdemar, 30% to R. J. Jurick. Snap-action lighter. 3,066,515, 12–4–62, Cl. 67—7.1.

Virtue, Byron T., to The Torrington Co. Latch knitting needle and method of forming. 3,022,650, 2–27–62, Cl. 66—122.

Virtue, Eugene P., D. W. Moyer, and P. F. Richardson, to International Harvester Co. Three point implement attaching hitch mechanism. 3,065,977, 11–27–62, Cl. 280—460.

Viscardi, John, to Velourit Corp. Color spraying of flocked areas. 3,069,285, 12–18–62, Cl. 117—37.

Vischer, Alfred, Jr., assor. of small interests to various assignees. Autoclave. 3,065,509, 11–27–62, Cl. 21—97.

Vischer, Ernst: *See*—
Gasenmun, Ernst, Bickel, and Vischer. 3,033,760.
Wettstein, Albert, Neher, De Saulles, Vischer, and Wieland. 3,033,748.
Wettstein, Albert, Neher, Vischer, and Wieland. 3,033,749.
Wettstein, Albert, and Vischer. 3,033,759.
Wettstein, Albert, Vischer, Kahnt, Meystre, and Neher. 3,060,100.
Wettstein, Albert, Vischer, Urech, and Jeger. 3,055,806.

Vischulis, George, to Miehle-Goss-Dexter, Inc. Method and apparatus for chasing links in printing press fountains. 3,025,793, 3–20–62, Cl. 101—350.

Viscontini, Max F. A., and K. Adank, to Geigy Chemical Corp. Pyrrolo isoindoles and process for preparing same. 3,056,800, 10–2–62, Cl. 260—325.

Viscose Suisse, Societe de la: *See*—
Cavallini, Guido, and Massarani. 3,052,679.

Visneski, Vern N. Fire wood rack. 3,021,011, 2–13–62, Cl. 211—49.

Viso S.A.: *See*—
Zumbrunnen, Erhard. 3,041,887.

Visockis, Joseph N. Fishing reel. 3,039,716, 6–19–62, Cl. 242—84.2.

Visos, Charles D., to Knapp-Monarch Co. Slide control for toasters. 3,032,424, 5–1–62, Cl. 99—329.

Visos, Charles D., to Knapp-Monarch Co. Semi-automatic toaster. 3,051,074, 8–28–62, Cl. 99—329.

Visser, Gerrit A., and P. V. Bollenbacher, to Space Structures, Inc. Method of making a reinforced article having an internal integral configuration. 3,059,281, 10–23–62, Cl. 18—55.

Vissers, Bastiaan, to Landbouwwerktuigen -en Machinefabrik H. Vissiers N.V. Apparatus for spreading pulverized or granular fertilizers. 3 046,025, 7–24–62, Cl. 275—7.

Vissers, Herbert, to Landbouwwerktuigen-en Machinefabriek H. Vissers N.V. Apparatus for spreading pulverized or granular fertilizers. 3,059,935. 10–23–62, Cl. 275—7.

Vista G.m.b.H.: *See*—
Viol, Gunter, and Hotes. 3,040,403.

Vistain, James E. Jr., to Admiral Corp. Mechanical vibrator signalling device. 3,048,148, 8–7–62, Cl. 116—137.

Viszlocky, Nicholas. Atomic battery and test instrument. 3,053,927, 9–11–62, Cl. 136—89.

Vita Mayer & Co., Inc.: *See*—
Ghisoni, Pietro D. 3,044,532.

Vitale, Paul J., to Pickering Associates, Inc. Turntable assembly for phonograph records. 3,044,784, 7–17–62, Cl. 274—39.

Vitale, Peter T.: *See*—
Kenney, Edward J., and Vitale. 3,037,854.

Vitale, Peter T., and G. F. Marion, to Colgate-Palmolive Co. Durable scouring pads and composition therefor. 3,034,-169, 5–15–62, Cl. 15—568.

Vitale, Salvatore. Internal combustion engines. 3,043,283, 7–10–62, Cl. 123—56.

Vitalis, Emil A., to American Cyanamid Co. Synergistic sanitizing process with neomycin and selected cationic surface active quarnary ammonium salts. 3,069,320, 12–18–62, Cl. 167—65.

Vitamix Pharmaceuticals, Inc: *See*—
Hamada, Tsugio. 3,034,964.

Vitramon, Inc.: *See*—
Levinson, Solomon. 3,068,107.
Weller, Barton L. 3,021,589.
Weller, Barton L. 3,043,183.

Vitro Corp. of America: *See*—
Drosten, Weglarz, and Robinson. 3,058,841.
Kirby, James R. 3,061,246.
Lord, John B. 3,054,004.
Riblet, Henry B. 3,043,189.

Vittimberga, Bruno M.: *See*—
Fuson, Reynold C., and Vittimberga. 3,031,506.

Vives, Julius C. Safety ladder device. 3,025,926, 3–20–62, Cl. 182—201.

Vives, Van C.: *See*—
Reusser, Robert E., and Vives. 3,070,435.

Vives, Van C., to Phillips Petroleum Co. Production of non-caking fertilizers. 3,034,858, 5–15–62, Cl. 23—103.

Vivier, Claude, to Richieu, S.A. Grader blade setting device. 3,038,268, 6–12–62, Cl. 37—156.

Vixler, Leslie F., to The Patrol Valve Co. Indicator system for sacrificial anodes. 3,037,920, 6–5–62, Cl. 204—148.

Vize, James F., to General Electric Co. Bistable electro-optical network. 3,042,807, 7–3–62, Cl. 250—213.

Vize, James F., to General Electric Co. Bistable electro-optical network. 3,066,223, 11–27–62, Cl. 250—208.

Vlacancich, Giovanni. Electric toothbrush with dentifrice feed and rinser. 3,056,151, 10–2–62, Cl. 15—29.

Vlach, Jerry. Rotary feeder for cages. 3,046,939, 7–31–62, Cl. 119—18.

Vlaminck, Paul M. A. Method and means for fixing a graft in a stock. 3,050,905, 8–28–62, Cl. 47—6.

Vlahov, Daniel: *See*—
Guarino, Frederick L., Gervais, and Vlahov. 3,019,519.

Vlasic, Frank R., to United States of America, Air Force. Parachute multiple reefing system. 3,049,322, 8–14–62, Cl. 244—152.

Vlasic, John. Tire tool. 3,067,807, 12–11–62, Cl. 157—1.26.

Vlček, Jaromír, to Zavody presneho strojirenstvi Gottwaldov. Device for nailing shoe-heels. 3,025,543, 3–20–62, Cl. 12—43.5.

Vlček, Jaromír, and L. Arnošt, to Zavody presneho strojirenstni. Wiping in device for shoe uppers. 3,032,791, 5–8–62, Cl. 12—12.4.

Vlček, Jaromir, and M. Vajik, to Zavody presneho strojirenstni. Device for lasting the uppers of footwear. 3,035,-287, 5–22–62, Cl. 12—12.4.

Voakes, William P., ½ to Wm. R. McTaggart. Combination roller and ice skates. 3,043,600, 7–10–62, Cl. 280—7.13.

Vocaline Co. of America: *See*—
Cooney, Carroll T., Jr. 3,063,282.

Vockenhuber, Ing. K.: *See*—
Keznicki, Eduard. 3,024,714.

Vockenhuber, Karl: *See*—
Cech, Kari. 3,029,689.
Cech, Karl. 3,050,593.
Keznicki, Eduard. 3,017,815.
Keznicki, Eduard. 3,032,002.
Keznicki, Eduard. 3,059,534.

Vodden, Cyril C., to Associated Electrical Industries Ltd. Electrode structures for thermionic devices. 3,026,441, 3–20–62, Cl. 313—261.

Vodenichar, James L.: *See*—
Carlile, Alfred E., and Vodenichar. 3,038,228.
Godfrey, Milton L., and Vodenichar. 3,038,227.

Vodicka, Albert L., Jr.: *See*—
Powell, Albert L., and Vodicka. 3,040,848.

Vodicka, Vincent, and R. F. Malinowski, to General Electric Co. Coated electric lamp and method of manufacture. 3,067,352, 12–4–62, Cl. 313—116.

Vodoklys, Frank V., to Westinghouse Electric Corp. Phosphor, lamp and method. 3,023,339, 2–27–62, Cl. 313—109.

Voege, James E., and L. C. Thomas, to Bemis Bro. Bag Co. Bag. 3,046,847, 7–31–62, Cl. 93—35.

Voege, Max, to E. P. Larsh. Control circuits. 3,048,756, 8–7–62, Cl. 318—207.

Voegeli, Marvin M.: *See*—
Oliver, Robert J., and Voegeli. 3,028,246.

Voegtlen, Dieter: *See*—
Hiller, Rolf, Rutkowski, Krägeloh, Voegtlen, and Zahlhaas. 3,051,793.
Jabczynski, Hans J., Korber, and Voetglen. 3,038,968.

Voeks, John Jr.: *See*—
Traylor, Teddy G., and Voeks. 3,048,555.

Voelcker, Herbert B., Jr., to United States of America, Army. Apparatus and method for linear synchronous detection of digital data signals. 3,059,188, 10–16–62, Cl. 329—123.

Voelcker, Sven: *See*—
Voelcker, Fritz, Graml, and Voelcker. 3,026,371.

Voelskow, Peter R. H.: *See*—
Sybertz, Gustav J. and J. F., and Voelskow. 3,017,912.

Voelz, Gordon J., K. W. Maier, and C. F. Turner, to Olin Mathieson Chemical Corp. Seal for power tool. 3,036,307, 5–29–62, Cl. 1—44.5.

Voemel, Wolfgang: *See*—
Achelis, Johann D., Gall, Haack, and Voemel, 3,044,936.

Voertman, Kenneth W., and R. L. Lich, to General Steel Industries, Inc. Pneumatic suspensions for vehicles. 3,022,-749, 2–27–62, Cl. 105—199.

Voetter, Heinz, H. Verburg, and F. J. Zuiderweg, to Shell Oil Co. Gas-liquid contacting apparatus. 3,062,517, 11–6–62. Cl. 261—114.

Voetter, Ulrich E.: *See*—
Sandman, Dean F., and Voetter. 3,066,739.

Vofsi, David: *See*—
Katchalsky, Aharon, Bursztyn, Rim, and Vofsi. 3,019,557.

Vogan, James W.: *See*—
Herron, Robert H., Vogan, and Scruggs. 3,055,769.

Voge, Hervey H., to Shell Oil Co. Catalytic dehydrogenation process. 3,067,272, 12–4–62, Cl. 260—680.

Vogel, Albert: *See*—
Worthington, Emory W., and Vogel. 3,020,042.
Worthington, Emory W., and Vogel. 3,040,324.

Vogel, Alvin R., D. E. Ruch, and L. W. Bagby, to Northrop Corp. Multichannel audio warning system. 3,015,702, 1–2–62, Cl. 179—100.2.

Vogel, Arnold: *See*—
Jucker, Ernst, Ebnöther, Rissi, Vogel, and Steiner. 3,036,065.

Vogel, Arthur E., to Dawson-Vogel Engineering Co. Control system for vehicle suspension. 3,026,125, 3–20–62, Cl. 280—124.

Vogel, Arthur E., ½ to Dawson-Vogel Engineering Co., ¼ to W. H. F. Schmieding, and ¼ to P. Fultz. Apparatus for controlling vehicle suspension. 3,036,844, 5–29–62, Cl. 280—124.

Vogel, Arthur E., ½ to Dawson-Vogel Engineering Co., ¼ to W. H. F. Schmieding, and ¼ to P. Fultz. Control system for vehicle suspension. 3,038,739, 6–12–62, Cl. 280—112.

Vogel, Arthur E., ½ to Dawson-Vogel Engineering Co., ¼ to W. H. F. Schmieding, and ¼ to P. Fultz. Control system for vehicle suspension. 3,065,976, 11–27–62, Cl. 280—124.

Vogel, Arthur M. Baby restrainers. 3,042,032, 7–3–62, Cl. 128—134.

Vogel, Charles B., to Shell Oil Co. Acoustical well logging. 3,050,151, 8–21–62, Cl. 181—5.

Vogel, Charles B., and T. W. Lamb, to Shell Oil Co. Well logging. 3,062,314, 11–6–62, Cl. 181—.5.

Vogel, Charles B., and T. W. Lamb, to Shell Oil Co. Coupling for transducers in a well-logging device. 3,063,035, 11–6–62, Cl. 340—17.

Vogel, David A. Therapeutic composition for topical application and method of applying the same. 3,017,325, 1–16–62, Cl. 167—58.

Vogel, Fred J., to Allis-Chalmers Mfg. Co. Apparatus for testing a transformer to determine its ability to withstand voltage surges. 3,017,572, 1–16–62, Cl. 324—55.

Vogel, Gerhard K. E.: *See*—
Codignola, Franco, and Vogel. 3,061,589.

Vogel & Halke: *See*—
Vogel, Uwe. 3,047,084.

Vogel, Henry A., M. F. Rylander, and R. F. Roach, to Pittsburgh Plate Glass Co. Resinous compositions obtained by blending alkyd resins with the resinous condensation products of aldehydes with mixtures of butenylphenols. 3,016,-357, 1–9–62, Cl. 260—20.

Vogel, James E., to General Motors Corp. Composite rotor. 3,070,348, 12–25–62, Cl. 253—39.

Vogel, John V., to Shell Oil Co. Pressure-operated metering apparatus. 3,040,576, 6–26–62, Cl. 73—224.

Vogel, Lida B. Apparel kit. 3,033,357, 5–8–62, Cl. 206—45.31.

Vogel, Marcel J.: *See*—
Litz, Frank A., and Vogel. 3,046,540.

Vogel, Norman A.: *See*—
Allais, David C., Litz, and Vogel. 3,067,333.

Vogel, Paul W., P. A. Asseff, and W. M. Le Suer, to The Lubrizol Corp. Foam inhibited gear lubricant composition. 3,033,786, 5–8–62, Cl. 252—34.7.

Vogel, Richard: *See*—
Hausmann, Werner, and Vogel. 3,015,344.

Vogel, Richard C., and W. A. Rodger, to United States of America, Atomic Energy Commission. Uranium recovery from nuclear fuel. 3,031,261, 4–24–62, Cl. 23—14.5.

Vogel, Rudolf, and K. Hoefer, to Gutehoffnungshütte Sterkrade Aktiengesellschaft. Apparatus for raising a multi-element-telescopic prop or the like. 3,051,431, 8–28–62, Cl. 248—354.

Vogel Tool & Die Corp.: *See*—
Coulon, Edward. 3,033,066.

Vogel, Uwe, to Vogel & Halke. Spring balance or weighing device. 3,047,084, 7–31–62, Cl. 177—229.

Vogel, Wilhelm, to Robert Bosch G.m.b.H. Cam drive. 3,034,-563, 5–15–62, Cl. 74—55.

Vogel, Wilhelm, to Robert Bosch, G.m.b.H. Cam drives for fuel injection pumps or the like and method of making waved cam wheels for such drives. 3,058,369, 10–16–62, Cl. 74—567.

Vogel, Willem F.: *See*—
Loikema, Jan, Moes, and Vogel. 3,036,935.
Strating, Jan, Moes, and Vogel. 3,046,272.

Vogel, William M., Jr., to Standard Container, Inc. Liquid sprayer. 3,056,560, 10–2–62, Cl. 239—361.

Vogel, Woodrow J.: *See*—
Burkhart, Reginald K., Vogel, and Black. 3,039,147.

Vogelfanger, Isaac J.: *See*—
Smialowski, Antoni J., Vogelfanger, Fischer, and Connock. 3,038,259.
Smialowski, Antoni J., Vogelfanger, Fischer, and Connock. 3,057,355.

Vogelin, Albert. Tire chains. 3,044,520, 7–17–62, Cl. 152—237.

Vogelmann, Ernst, and O. Wurst. Apparatus for introducing controlled quantities of liquids and solutes into a fluid medium. 3,052,525, 9–4–62, Cl. 23—272.7.

Vogl, Thomas P.: *See*—
Garbuny, Max, and Vogl. 3,061,726.

Vogler, Heinrich, and H. Krausser. Automatic firearm utilizing a spring for reloading. 3,050,892, 8–28–62, Cl. 42—5.

Vogler, Jacques, to R.M.P. Industries Ltd. Heated frame element for door and window constructions. 3,064,110, 11–13–62, Cl. 219—19.

Vogler, John L.: *See*—
Spitzmiller, Leo X., and Vogler. 3,044,116.

Vogler, Seymour: *See*—
Hildebrandt, Robert A., Hyman, and Vogler. 3,049,402.

Vogt, Albert F., to Northern Engineering Works. Stepless hoist control. 3,029,372, 4–10–62, Cl. 318—204.

Vogt, Calvin O., to Century Geophysical Corp. Strain gauge. 3,031,634, 4–24–62, Cl. 338—2.

Vogt, Clarence L., to Airaterra. Combined tool and container. 3,055,217, 9–25–62, Cl. 73—298.

Vogt, Clarence W. Packaging fluent products. 3,015,386, 1–2–62, Cl. 206—65.

Vogt, Clarence W. Packages for comminuted materials. 3,029,937, 4–17–62, Cl. 206—56.

Vogt, Clarence W. Dispensing container. 3,043,483, 7–10–62, Cl. 222—207.

Vogt, Clarence W. Method and apparatus for preparing measured charges of material and dispensing them into cavities. 3,045,717, 7–24–62, Cl. 141—12.

Vogt, Clarence W. Packing of pulverulent materials and the like. 3,053,022, 9–11–62, Cl. 53—22.

Vogt, Clarence W. Continuous feeding mechanism for filling apparatus. 3,058,498, 10–16–62, Cl. 141—5.

Vogt, Clarence W. Method and apparatus for making self-sustaining pellets of plastic materials. 3,059,275, 10–23–62, Cl. 18—4.

Vogt, Clarence W. Method and apparatus for filling containers. 3,063,477, 11–13–62, Cl. 141—5.

Vogt, Edmund. Method and apparatus for heating thermoplastic sheets. 3,066,211, 11–27–62, Cl. 219—34.

Vogt, Ernest, Société des Accumulateurs Fixes et de Traction (Societe Anonyme). Alkaline cell and method of operating the same. 3,059,041, 10–16–62, Cl. 136—6.

Vogt, Harvey J., to Pittsburgh Plate Glass Co. Production of methylchloroform. 3,065,280, 11–20–62, Cl. 260—659.

Vogt, Henry, Machine Co.: *See*—
Edwards, Eugene A. 3,046,067.

Vogt, Jakob, to A. Ehrenreich & Cie. Ball and socket joints. 3,066,963, 12–4–62, Cl. 287—87.

Vogt, Lester H., Jr.: *See*—
Brown, John F., Jr., and Vogt. 3,017,386.

Vogt, Paul, to Ebauches S. A. Time controlled container. 3,030,795, 4–24–62, Cl. 70—272.

Vogt, Werner, to The Torrington Mfg. Co. Wire forming machine. 3,052,392, 9–4–62, Cl. 226—165.

Vogt, Wilhelm, K. Gehrmann, and K. Sennewald, to Knapsack-Griesheim Aktiengesellschaft. Process for the stabilization of chloroprene. 3,015,677, 1–2–62, Cl. 260—652.5.

Vogt, Wilhelm, K. Gehrmann, and K. Sennewald, to Knapsack-Griesheim Aktiengesellschaft. Process for stabilizing chloroprene. 3,048,639, 8–7–62, Cl. 260—652.5.

Vogt, Wilhelm, and K. Gehrmann, to Knapsack-Griesheim Aktiengesellschaft. Process for preparing nitro compounds of chloro-substituted ethylenes. 3,047,638, 7–31–62, Cl. 260—644.

Vogt, Wilhelm, K. Gehrmann, and K. Sennewald, to Knapsack-Griesheim Aktiengesellschaft. Process and device for the manufacture and isolation of acrylic acid alkyl esters. 3,067,241, 12–4–62, Cl. 260—486.

Vögtlin, Karl, to Kienzle Apparate G.m.b.H. Recording apparatus. 3,013,267, 3–15–62, Cl. 346—77.

Vögtlin, Karl, and W. Rösch, to Kienzle Apparate G.m.b.H. Recorder mechanism. 3,016,278, 1–9–62, Cl. 346—62.

Vogtlin, Karl, and N. Helmschrott, to Kienzle Apparate G.m.b.H. Self-centering clutch assembly for precision instruments and the like. 3,044,307, 7–17–62, Cl. 73—519.

Vogtmann, Henry W., to The Bendix Corp. Resolution of ambiguous range in MTI radar. 3,066,288, 11–27–62, Cl. 343—7.7.

Voice, Bernard I., to Slolper & Voice Optical Co., Inc. Contact lens polishing assembly. 3,032,936, 5–8–62, Cl. 51—124.

Voige, Raymond C., to Mortorola, Inc. Electronic system. 3,049,591, 8–14–62, Cl. 178—7.3.

Voight, Woldemar, to Martin-Marietta Corp. Swept wing with unswept spar. 3,018,985, 1–30–62, Cl. 244—46.

Voigt, Hans. Stable aqueous medicinal solutions. 3,035,975, 5–22–62, Cl. 167—65.

Voigt, Hellmut R. Variable speed drive. 3,015,972, 1–9–62, Cl. 74—793.

Voigt, Ralph W. Combination package and display device. 3,047,143, 7–31–62, Cl. 206—80.

Voigt, Ralph W. Double key for dispensing materials from collapsible tubes. 3,066,829, 12–4–62, Cl. 222—94.

Voigt, Robert W.: *See*—
Bousquet, John A., McDonald, and Voigt. 3,031,356.

Voigt, Wilfried, to Lonza Electric and Chemical Works Ltd. Apparatus for producing small bodies from a plastic mass. 3,025,564, 3–20–62, Cl. 18—12.

Voigt, Wilfried, and H. Holch, to Firma Lonza Electric and Chemical Works Ltd. Process and apparatus for the extrusion of thermoplastic material. 3,029,474, 4–17–62, Cl. 18—57.

Voigtlander A.G.: *See*—
Eggert, Joachim, and Tronnier. 3,039,359.
Fischer, Oskar, and Sommer. 3,068,773.
Greger, Paul. 3,017,814.
Greger, Paul, Kinder, and Sommer. 3,017,813.
Meixner, Alfred. 3,023,685.
Mische, Friedrich. 3,039,352.
Papke, Friedrich. 3,016,786.
Papke, Friedrich. 3,024,691.
Papke, Friedrich. 3,041,918.
Papke, Friedrich. 3,043,180.
Papke, Friedrich. 3,052,169.
Papke, Friedrich. 3,062,086.
Rehn, Heinz. 3,066,884.

Voigtlander A.G.: *See*—Continued
Reiche, Wilhelm, Behr, and Schacht. 3,027,819.
Sommer, Richard. 3,019,716.
Sommer, Richard. 3,039,376.
Swarofsky, Walter, and Bluhm. 3,057,277.
Van der Mei, Wietse H. 3,015,998.
Van der Mei, Weitse H. 3,066,586.
Zillmer, Erich. 3,019,704.
Voigtman, Edward H.: *See*—
Gorski, Frank A., Voigtman, and Wink. 3,067,087.
Voigtman, Edward H., H. F. Donnelly, and C. A. Lamb, to Kimberly-Clark Corp. Method of creping tissue and product thereof. 3,017,317, 1–16–62, Cl. 162—111.
Voigtman, Edward H., and R. A. Wolterding, to Kimberly-Clark Corp. Cellulosic product. 3,036,573, 5–29–62, Cl. 128—290.
Voigtmann, Robert C., to The Dole Valve Co. High density polyethylene ice mold. 3,021,695, 2–20–62, Cl. 62—370.
Voigtmann, Robert C., to The Dole Valve Co. Manually operated ice making apparatus. 3,053,059, 9–11–62, Cl. 62—344.
Voinovich, Sweeney, to Mercantile Metals, Inc. Fire extinguishing composition and method of making it. 3,046,220, 7–24–62, Cl. 252—2.
Voi-Shan Industries, Inc.: *See*—
McMeen, Forrest H., Aston, and Stucka. 3,017,658.
Spoehr, Thomas F., and Burt. 3,065,662.
York, Bernard H. 3,026,920.
Voisine, Ange E. Baking oven. 3,022,752, 2–27–62, Cl. 107—63.
Voit Rubber Corp.: *See*—
Senne, David L. 3,059,637.
Voit, W. J., Rubber Corp.: *See*—
Abbott, William P., and Walts. 3,056,148.
Holman, Rudolph G. 3,041,906.
Holman, Rudolph G. 3,032,337.
Senne, David L. 3,027,561.
Voith-Getriebe, K.G.: *See*—
Weinrich, Hellmut, Muller, and Peltner. 3,023,639.
Voith, J. M., G.m.b.H.: *See*—
Biedenbeck, Karl, and Kaufmann. 3,043,637.
Kaufmann, Karl. 3,054,595.
Krauss, Hans. 3,030,070.
Krauss, Hans. 3,063,460.
Kugel, Fritz, and Muller. 3,065,652.
Nisser, Henrik G., and Breuninger. 3,050,188.
Seibold, Ernst, and Müller. 3,055,169.
Thuss, Werner. 3,069,136.
Voith, J. M., G.m.b.H. Maschinenfabrik: *See*—
Flaig, Heinrich, and Stark. 3,067,815.
Kugel, Fritz K., and Schweizer. 3,043,162.
Seibold, Ernst G., and Müller. 3,020,719.
Vokes Ltd.: *See*—
Mortimer, Noel R. F. 3,046,998.
Volans, Peter, to Monsanto Chemicals Ltd. Polymerisation processes. 3,054,784, 9–18–62, Cl. 260—84.1.
Volberg, Herman W., to General Dynamics Corp. System for displaying coded information on cathode ray tubes. 3,020,530, 2–6–62, Cl. 340—324.
Volberg, Herman W., to General Dynamics Corp. System for generating waveforms utilizing drift of carriers. 3,025,342, 3–13–62, Cl. 178—5.
Volberg, Herman W., and L. R. Beach, to General Dynamics Corp. Optical projection of a cathode ray tube image. 3,015,693, 1–2–62. Cl. 178—7.87.
Voles, Roger, to Electric & Musical Industries Ltd. Interpolating devices. 3,065,912, 11–27–62, Cl. 235—197.
Volianik, Nicolas, to Centre Technique des Industries de la Fonderie. Method of making additions to molten metal. 3,058,822. 10–16–62, Cl. 75—48.
Volini, Marguerite, and M. A. Mitz, to Armour Pharmaceutical Co. Insulin recovery process. 3,069,323, 12–18–62, Cl. 167—75.
Volk, Albert. Clothes hanger attachment. 3,042,276. 7–3–62, Cl. 223—98.
Volk, Emil A., Jr., to The Bendix Corp. Starting system having a gas generator. 3,046,741, 7–31–62, Cl. 60—39.46.
Volk, Henry, to The Dow Chemical Co. Aqueous solutions of polyacrylamide stabilized with water soluble nitrite. 3,065,193, 11–20–62, Cl. 260—29.6.
Volk, Victor F., C. D. Eash, and J. W. Olson, to Anaconda Wire and Cable Co. Aerial cable spacer and liner for same. 3,052,751, 9–4–62, Cl. 174—146.
Volkel, Ellis W. Mechanized ladder device. 3,043,395, 7–10–62, Cl. 182—2.
Volker, Karl, to H. L. Naimer. Remotely controllable rotary switch. 3,029,327, 4–10–62, Cl. 200—92.
Völker, Theodor, and F. Wenzel, to Rohm & Haas G.m.b.H. Process for coating medicaments. 3,070,509, 12–25–62, Cl. 167—82.
Volker, Theodor G.: *See*—
Rauch, Harald K., Tessmar, and Volker. 3,033,782.
Volkhausen, Clemens, and A. Teutsch, to Schloemann Aktiengesellschaft. Rolling mill. 3,049,949, 8–21–62, Cl. 80—38.
Volkman, William H.: *See*—
Hansen, Edward P., and Volkman. 3,027,634.
Volkmann & Co.: *See*—
Kresslein, Albert. 3,065,5?2.
Kresslein, Albert, and Wiechmann. 3,060,672.
Volkmann, Robert W.: *See*—
Hale, Arthur N. Covert, and Volkmann. 3,044,428.
Volkmann, Willy B., and E. F. Hartzell, deceased (C. Hartzell, administratrix). Water surge arrester. 3,018,799, 1–30–62, Cl. 138—26.
Volks, Herbert, and C. P. Ouellette, to En Mail Machine Corp. Assembling inserts, letters, etc., into envelope during formation. 3,059,391, 10–23–62, Cl. 53—206.
Volksdorf, Hans: *See*—
Kardon, Emanuel S., and Volksdorf. 3,017,069.
Voll, Heinrich: *See*—
Tchmidt, Josef, Schneider, Thiersch, Knappstein, Stuhrmann, Eickemeyer, and Voll. 3,054,728.
Voll, Samuel T., 1/10 to Gadget-Of-The-Month Club, Inc. Apparatus for controlling the slidable engagement of a fishing float with respect to a fishing line. 3,032,913, 5–8–62, Cl. 43—44.91.
Voll, Samuel T., 1/10 to Gadget-of-The-Month Club, Inc. Knife sharpener. 3,032,938, 5–8–62, Cl. 51—210.
Voll, Siegfried: *See*—
Haas, Karl, and Voll. 3,021,147.
Voller, James P., to Sun-Maid Raisin Growers of California. Carton ear folder. 3,032,947, 5–8–62, Cl. 53—76.
Vollet, George, to Jacoby-Bender, Inc. Telescoping-type expansible bracelet with detachability feature and spring pin for use therein. 3,017,682, 1–23–62, Cl. 24—265.
Vollet, George. Expansible flexible member for belts and other purposes. 3,063,058, 11–13–62, Cl. 2—338.
Vollink, Gilbert J.: *See*—
Crow, Robert P., and Vollink. 3,048,659.
Vollink, Willard L., to General Foods Corp. Process for making breakfast cereal flakes. 3,062,657, 11–6–62, Cl. 99—80.
Vollman, Joseph: *See*—
Cortese, Joseph, and Vollman. 3,051,111.
Vollmer, Herman. Sleeve bearing. 3,022,127, 2–20–62, Cl. 308—238.
Vollmer, Thomas, and J. A. Duke, to Minneapolis-Honeywell Regulator Co. Dew point measuring apparatus. 3,050,-982, 8–28–62, Cl. 73—17.
Vollmer, Joseph G., Sr. Ice cream dispenser. 3,054,534, 9–18–62, Cl. 222—70.
Vollmer, Walter K.: *See*—
Smitmans, Gretchen, and Vollmer. 3,024,216.
Vollmer, Walter K., to Union Carbide Corp. Coating compositions and method for applying same. 3,022,194, 2–20–62, Cl. 117—75.
Vollmert, Bruno, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Impact-resistant plastic compositions comprising a styrene polymer and a cross-linked acrylic acid ester polymer, and process for preparing same. 3,055,859, 9–25–62, Cl. 260—45.5.
Volmel, Wolfgang: *See*—
Achelis, Johann D., Gall, Haack, and Volmel. 3,028,382.
Vol-Pak, Inc.: *See*—
Stroop, John H. 3,044,229.
Stroop, John H. 3,054,236.
Volpe, Joseph C.: *See*—
Werne, John V., Newbold, Parnell, and Volpe. 3,017,097.
Volpin, Alexander S. Automatic lubricated gate valve. 3,026,895, 3–27–62, Cl. 137—246.12.
Volpin, Alexander S. Automtaic sealant-lubricant supply fitting for pressure vessels. 3,033,223, 5–8–62, Cl. 137—246.12.
Volpp, Egbert: *See*—
Tamm, Christoph, and Volpp. 3,057,860.
Tamm, Christoph, and Volpp. 3,070 597.
Voltmann, Robert, to Chrysler Corp. Method and apparatus for measuring the thickness of dielectric coatings. 3,045,176, 7–17–62, Cl. 324—54.
Voltz, Frederick F.: *See*—
Pollauf, Joseph F., and Voltz. 3,032,017.
Voltz, Jacques, and W. Bossard, to Geigy Chemical Corp. Colour salts of triazene compounds. 3,055,881, 9–25–62, Cl. 260—140.
Voltz, Sterling E., to Sun Oil Co. Polymerizaztion of styrene. 3,049,524, 8–14–62, Cl. 260—93.5.
Voltz, Sterling E., to Sun Oil Co. Preparation of aromatic hydrocarbons. 3,070,638, 12–25–62, Cl. 260—668.
Volume Builders Corp.: *See*—
Barefoot, Joe W. 3,044,670.
Volvo, Aktiebolaget: *See*—
Bohlin, Nils I. 3 043,625.
Karlsson, Sven-Olof, and Quistgaard. 3,024,668.
Wettstein, Fritz A. 3,046,062.
Wettstein, Fritz A. 3,059,937.
Von, Isaiah: *See*—
Hardy, William B., and Von. 3,027,369.
Hardy, William B., Von, and Tomcufcik. 3,027,377.
Von, Isaiah, A. S. Tomcufcik, and W. B. Hardy, to American Cyanamid Co. New vat dyes. 3,027,374, 3–27–62, Cl. 260—274.
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Von Ahlefeldt, Rolf S. Two-way solenoid. 3,022,400, 2–20–62, Cl. 200—93.
Von Allmen, Pierre, to Esco S.A. Automatic work-feeding device for machine tools 3,029,991, 4–17–62, Cl. 226—156.
Vonarburg, Hansjorg, to Brown, Boveri & Cie, Aktiengesellschaft. Phase discriminator. 3,054,062. 9–11–62, Cl. 328—133.

Von Arnhem, Douglas. Device for throwing and catching balls. 3,061,311, 10–30–62, Cl. 273—96.
Von Aulock, Wilhelm H., to Bell Telephone Laboratories, Inc. Temperature compensated gyromagnetic device. 3,030,-593, 4–17–62, Cl. 333—24.
Von Berg, Richard E., and H. Laurent, to Rheem Mfg. Co. Device for controlling the speed of operation of an internal combustion engine. 3,020,969, 2–13–62, Cl. 180—82.1.
Von Berg, Richard E., and A. A. Pfeifer, to Rheem Mfg. Co. Electro-hydraulic speed control device. 3,053,990, 9–11–62, Cl. 290—40.
Von Bergen, Werner: *See*—
Wolf, Harold W., and Von Bergen. 3,051,544.
Von Biskupsky, Wassily. Foot fins. 3,068,499, 12–18–62, Cl. 9—309.
Von Blumencron, Hans-Ottmar M.: *See*—
Jung, Johann, Von Blumencron, Pfaff, and Scheuermann. 3,054,669.
Von Bogdandy, Ludwig, and H.-D. Pantke, to Hüttenwerk Oberhausen A.G. Method of measuring the proportion of combustible matter in gas streams. 3,043,668, 7–10–62, Cl. 23—232.
Von Bomhard, Josef, to Fichtel & Sachs A.G. Automotive clutch control system. 3,017,001, 1–16–62, Cl. 192—3.5.
Von Brachel, H. Esser, and E. Muller, to Farbenfabriken Bayer Aktiengesellschaft. Heat-sensitising polymer latices with a polyacetal. 3,062,768, 11–6–62, Cl. 260—29.7.
Von Brachel, Hanswilli: *See*—
Merten, Rudolf, von Brachel, Holtschmidt, and Hauptmann. 3,070,556.
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Von Bubna-Litititz, Hektor. Photographic apparatus. 3,066,-572, 12–4–62, Cl. 88—24.
Von Canon, Fred. Bed rail and connector structure. 3,027,-572, 4–3–62, Cl. 5—296.
Von Cube, Hans-Ludwig, and I. Saüerbrünn, to Brown, Boveri & Cie Aktiengesellschaft. High-duty insulation in sealed electric motors subjected to refrigerants, oils or the like. 3,034,004, 5–8–62, Cl. 310—87.
Von den Hoff, Johan P. H.: *See*—
Ottenheym, Johannes H., and Von den Hoff. 3,031,443.
Vonderwahl, Rodolphe: *See*—
Daglish, Anthony F., Vonderwahl, and Tillotson. 3,017,412.
Daglish, Anthony F., Vonderwahl, and Tillotson. 3,043,-780.
Vonderwahl, Rodolphe, to J. R. Geigy A.-G. 2,6-diaminopyridine-3,5-dicarboxylic acid amides. 3,035,061, 5–15–62, Cl. 260—295.5.
Von Dohren, Hans H., and C. Walther, to Accumulatoren Fabrik A.G. Method of producing sinter electrodes. 3,050,-386, 8–21–62, Cl. 75—223.
Vondy, Albert F.: *See*—
Leichten, William E., and Vondy. 3,036,049.
Von Elbe, Guenther: *See*—
Brinkley, Stuart R., Jr., and Von Elbe. 3,046,887.
Von Esch, Anne M., and W. R. Sherman, to Abbott Laboratories. Carbohydrazides. 3,058,988, 10–16–62, Cl. 260—295.
Von Eschen, Robert L., and P. F. Scheele, to United States of America, Atomic Energy Commission. Voltage regulator. 3,031,608, 4–24–62, Cl. 323—22.
Von Ey, Hermann: *See*—
Bessler, Alfred, Rabe, and Dobbelstein. 3,056,472.
Bessler, Alfred, Rabe, Dobbelstein, and Von Ey. 3,065,-829.
Von Falkai, Bela, H. Haberland, A. Reichle, and R. Stroh, to Bayer Aktiengesellschaft, Farbenfabriken. Process for polymerizing ethylenically unsaturated compounds. 3,036,-048 5–22–62, Cl. 260—78.4.
Von Finck, Georg: *See*—
Von Brachel, Hanswilli, Bayer, Von Finck, and Langmann. 3,056,695.
Von Brachel, Hanswilli, Von Finck, and Langmann. 3,047,355.
Von Frankenberg und Ludwigsdorf, Oswald. Pocket knife. 3,061,927, 11–6–62, Cl. 30—156.
Von Fraunhofer, Hans, and H. E. Coote. Colour photographic processes and materials. 3,032,413, 5–1–62, Cl. 96—3.
Von Friedrich, Adolf, and G. Scriba, to Farbenfabriken Bayer Aktiengesellschaft. Process for the manufacture of shaped bodies. 3,018,261, 1–23–62, Cl. 260—23.
Von Fuchs, George H. Leather lubrication. 3,035,882, 5–22–62, Cl. 8—94.22.
Von Fuchs, George H., to Doble Engineering Co. Method and apparatus for analysing insulation oil. 3,040,250, 6–19–62. Cl. 324—954.
Von Gal, George E., Jr. Stacking machine. 3,056,513, 10–2–62, Cl. 214—6.
Von Gierke, Brigitte R.: *See*—
Ruter, Rudolph G. 3,069,796.
Von Halla, Laura W.: *See*—
Altman, Fred E., and Von Halla. 3,057,260.
Von Heidenstam, Erik J. Lift-slab construction of buildings. 3,017,723, 1–23–62, Cl. 50—140.
Von Hippel, Arthur R., to Research Corp. Method and apparatus for producing and controlling electron emission. 3,017,516, 1–16–62, Cl. 250—211.
Von Hippel, Hans J., and A. J. Zwicky, said von Hippel assor. to said Zwicky. Hydraulic rotary-piston machines. 3,062,193, 11–6–62, Cl. 121—80.
Von Hofe, George W., and E. K. Wolff, to New Jersey Machine Corp. Container wrapping system. 3,038,391, 6–12–62, Cl. 93—54.
Von Hofe, George W., and J. F. Spano, to New Jersey Machine Corp. Box making machines. 3,057,266, 10–9–62, Cl. 93—41.
Von Holtz, Charles T.: *See*—
Hubbell, Harvey, and von Holtz. 3,065,442.
Von Hoorn, Fred G., to General Electric Co. Attachment plug with cord guide. 3,032,740, 5–1–62, Cl. 339—195.
Von Inffeld, Ludwig M.: *See*—
Flad, Hermann, Knoll, and Von Inffeld. 3,039,280.
Von K. Bruns, Richard: *See*—
Colletti, Joseph J. 3,015,908.
Von Kannen, Toni: *See*—
Kabelitz, Hans, and von Kannen. 3,016,734.
Von Kessel, Kurt, and K. Dierschke, to Koppers Co., Inc. Process for purification of benzene. 3,054,727, 9–18–62, Cl. 202—42.
Von Koeppen, Andreas, and M. W. Luthgens, to West Virginia Pulp and Paper Co. Bleaching cold caustic pump with SO_2. 3,055,792, 9–25–62, Cl. 162—25.
Von Kohorn, Henry. Selective recording of continuous information. 3,028,434, 4–3–62, Cl. 179—100.2.
Von Kummer, Ferdinand G., to Royal McBee Corp. Parity check apparatus. 3,021,063, 2–13–62, Cl. 235—153.
Von Mikusch-Buchberg, Johannes D., to Unilever Ltd. Beta-diketones and preparation thereof. 3,030,416, 4–17–62, Cl. 260—593.
Von Platen, Gordon L., to Rods, Inc. Method of producing steel bars. 3,031,750, 5–1–62, Cl. 29—547.
Von Platen, Baltzar, to Allmänna Svenska Elektriska Aktiebolaget. Press stand. 3,064,558, 11–20–62, Cl. 100—214.
Von Pölnitz, Wolfgang, H. G. Schwick, and J. H. Bickhard, to Behringwerke Aktiengesellschaft. Process for the preparation of streptokinase. 3,063,913, 11–13–62, Cl. 195—65.
Von Pölnitz, Wolfgang, H. G. Schwick, and J. H. Bickhard, to Behringwerke Aktiengesellschaft. Process for the biological preparation of streptokinase. 3,063,914, 11–13–62, Cl. 195—66.
Von Poser, Gottfib: *See*—
Werner, Georg, and Von Poser. 3,028,240.
Von Rabenau, Manuel. Motion conversion device. 3,024,535, 3–13–62, Cl. 33—18.
Von Radics, Max. Back-up alarm. 3,034,473, 5–15–62, Cl. 116—59.
Von Rath, Herbert, to A. Raymond. Molding fastener. 3,040,401, 6–26–62, Cl. 24—73.
Von Reppert, Lothar, to Dungemittel Technik A.G. Device for granulation. 3,030,657, 4–24–62, Cl. 18—1.
Von Reppert, Lothar, to Dungemittel Technik A.G. Manufacture of granulated fertilizers. 3,050,772, 8–28–62, Cl. 18—1.
Von Riebnits, Margot: *See*—
Bovarnick, Bennett, and Joachim. 3,021,285.
Von Rintelen, Harald: *See*—
Himmelmann, Wolfgang, Von Rintelen, and Wahl. 3,061,436.
Von Roll, L., A.G.: *See*—
Ludin, Werner. 3,046,915.
Von Rosenberg, Edgar L., to American Iron & Machine Works Co., Inc. Drill pipe coupling. 3,054,647, 9–18–62, Cl. 308—4.
Von Rosenberg, Guido: *See*—
Kaupp, Josef, Konig, von Rosenberg, Trager, and Thalhofer. 3,053,681.
Von Rueden, Raymond P. Spreader and distributor for grain bins and the like. 3,064,833, 11–20–62, Cl. 214—17.
Von Ruecker, Nikolaus: *See*—
Spannagel, Hans, and Von Ruecker. 3,051,271.
Von Sanden, Dieter, to Siemens & Halske Aktiengesellschaft. Telegraph systems. 3,045,063, 7–17–62, Cl. 178—70.
Von Sass, Sylvester K.: *See*—
Beierbach, Walter T., and Von Sass. 3,058,148.
Von Schickh, Otto, R. Gehm, and M. Paul, deceased (by U. R. D. Paul, heir and legal representative of heirs), to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of N-substituted polyamides. 3,027,356, 3–27–62, Cl. 260—78.
Von Schickh, Otto, and H. Metzger, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of omega-amino dodecane acid lactam. 3,060,173, 10–23–62, Cl. 260—239.3.
Von Schlichtegroll, Ansgar: *See*—
Schuler, Wilhelm A., Beschke, and Von Schlichtegroll. 3,040,043.
Von Sternberg, Jule R. Wig construction. 3,032,923, 5–8–62, Cl. 46—172.
Von Thuengen, Hubert F., to Zahnradfabrik Friedrichshafen. One-way brake or clutch mechanism, particularly for free wheeling devices and anti-rollback devices. 3,017,964, 1–23–62, Cl. 188—82.84.

Von Thungen, Hubert F. : *See*—
Hefel, Karl, and Von Thungen. 3,066,776.
Von Tiesenhausen, Georg, to United States of America, Army. Missile launching apparatus. 3,038,383, 6–12–62, Cl. 89—1.7.
Von Uffel, William W., Jr. : *See*—
Szemplak, Jerome C., Ekstrom, Von Uffel, Horley, and Wood. 3,051,963.
Von Waldheim, Anton, Chem.-Pharm. Fabrik : *See*—
Pantlitschko, Martin. 3,069,466.
Von Wartburg, Albert : *See*—
Stoll, Arthur, Renz, and Von Wartburg. 3,060,169.
Von Werder, Fritz : *See*—
Bork, Karl-Heinz, Bruckner, Mannhardt, and von Werder. 3,064,015.
Von Wranau, Guido. Apparatus for production of glass fibers. 3,065,613, 11–27–62, Cl. 18—8.
Von Zelewsky, Ottomar, to Georg Fischer, Aktiengesellschaft. Carrier for machine tools, especially lathe dog. 3,016,245, 1–9–62, Cl. 279—106.
Von Zelewsky, Ottomar, to Georg Fischer, Aktiengesellschaft. Device for changing duplicating templates in duplicating units. 3,046,822, 7–31–62, Cl. 82—14.
Von Zeppelin Kurt : *See*—
Junghans, Helmut, von Zeppelin, and Weber. 3,037,438.
Vona, Joseph A. : *See*—
Bortnek, Eugene, and Vona. 3,059,002.
Wyart, John W., Vona, and Cunningham. 3,061,629.
Vondracek, Charles H. : *See*—
Westervelt, Dean C., Vondracek, and Hofmann. 3,059,046.
Vonk, Cornelis, to North American Philips Co., Inc. Amplifying arrangement for stereophonic reproduction. 3,020,345, 2–6–62, Cl. 179—1.
Vonnegut, Bernard, to Arthur D. Little, Inc. Atmospheric space charge modification. 3,019,989, 2–6–62, Cl. 239—2.
Vono Ltd. : *See*—
Cole, George F., and Turley. 3,042,395.
Turley, Alfred. 3,026,914.
Turley, Alfred. 3,055,235.
Vonville, George E. Cultivator implement. 3,039,542, 6–19–62, Cl. 172—682.
Voorhees, Edward M., ¼ to E. M. Voorhees, ¼ to I. C. Capdeville, ¼ to C. M. Funk, and ¼ to L. L. Mullins. Pastry cutter with pneumatic stripper. 3,022,693, 2–27–62, Cl. 83—169.
Voorhees, John E. : *See*—
Simon, Ralph, Voorhees, Hoess, and Frisby. 3,052,429.
Voorhees, Theodore : *See*—
Caldwell, Douglass H., Godecke, and Voorhees. 3,025,955.
Voorhees, Thomas L., to Stapling Machines Co. Control mechanism for wirebound box-making machines. 3,018,482, 1–30–62, Cl. 1—147.
Voorhees, Vanderveer, to Bray Oil Co. Colloidal additives for fuel oils. 3,067,018, 12–4–62, Cl. 44—51.
Voorhis, William B. : *See*—
Hower, Meade M., and Voorhis. 3,041,510.
Vordahl, Milton B., to Crucible Steel Co. of America. Powder metallurgy processes and products. 3,066,391, 12–4–62, Cl. 29—182.5.
Vore, Paul J. Turbo jet and turbo prop engine relite device. 3,041,833, 7–3–62, Cl. 60—39.09.
Voreaux, Claude, and J.-P. Joyeux, to International Harvester Co. Hydrostatic transmission servo-mechanism. 3,039,-267, 6–19–62, Cl. 60—53.
Vorkauf, Heinrich. Hot water boiler for a heating system. 3,030,938, 4–24–62, Cl. 122—235.
Vorkoeper, Dwight, and M. O'Brien. Hydraulically-actuated divisible-wedge log-splitter. 3,038,510, 6–12–62, Cl. 144—193.
Vornberger, Karl F. : *See*—
Kamborian, Jacob S., and Vornberger. 3,046,578.
Vorperian, Hrand : *See*—
Gabrielsen, Christian, Vorperian, and Sukovich. 3,019,941.
Vorrath, Elmer J., and A. L. Winkler, to Acme Steel Co. Strapping machine. 3,059,386, 10–23–62, Cl. 53—13.
Vorwerk, Vernon R., and R. R. Morin, to North American Aviation, Inc. Liquid propellant release mechanism. 3,050,940, 8–28–62, Cl. 60—39.14.
Vos, Jan G. : *See*—
Nijkamp, Derk J. E., van Lochem, and Vos. 3,020,699.
Vos, Johan M. : *See*—
Waale, Marinus J., and Vos. 3,059,004.
Vos. Johan M., and R. De Vries, to Shell Oil Co. Production of carboxylic acids. 3,059,007, 10–16–62, Cl. 260—413.
Vosbigian, Tro J., to Purex Corp., Ltd. Composition and process for cleaning aluminum surfaces. 3,048,547, 8–7–62, Cl. 252—102.
Vosbikian, Peter S. and T. S. Mops having extracting mechanism. 3,020,574, 2–13–62, Cl. 15—119.
Vosbikian, Peter S. and T. S. Shears. 3,039,192, 6–19–62, Cl. 30—213.
Vosbikian, Peter S. and T. S. Mop with extracting mechanism. 3,040,354, 6–26–62, Cl. 15—119.
Vosbikian, Peter S. and T. S. Mop with extracting mechanism. 3,040,355, 6–26–62, Cl. 15—119.
Vosbikian, Peter S. and T. S. Dust mops with means to manually spin the mophead. 3,040,356, 6–26–62, Cl. 15—147.
Vosbikian, Peter S., and T. S. Mops with extracting mechanism and aligning mechanism therefor. 3,049,740, 8–21–62, Cl. 15—119.
Vosbikian, Peter S. and T. S. Cleaning devices. 3,066,347, 12–4–62, Cl. 15—568.
Vosbikian, Thomas S. : *See*—
Vosbikian, Peter S. and T. S. 3,020,574.
Vosbikian, Peter S., and T. S. 3,039,192.
Vosbikian, Peter S. and T. S. 3,040,354.
Vosbikian, Peter S. and T. S. 3,040,355.
Vosbikian, Peter S. and T. S. 3,040,356.
Vosbikian, Peter S., and T. S. 3,049,740.
Vosbikian, Peter S. and T. S. 3,066,347.
Vosburgh, Malcolm C. : *See*—
Khanna, Shyam M., and Vosburgh. 3,028,684.
Vosburgh, William G. : *See*—
Goodman, Albert, Grandine, and Vosburgh. 3,060,157.
Vose, Fred C., and J. Kaminski, Jr., to General Electric Co. Electrical suspension insulator with improved pin. 3,054,-851, 9–18–62, Cl. 174—196.
Voss, Donald J., to Mine Safety Appliance Co. Safety helmet. 3,063,055, 11–13–62, Cl. 2—3.
Voss Engineering Co. : *See*—
Bearer, Gerald L. 3,064,713.
Shields, William D. 3,064,712.
Voss, Henry J. : *See*—
Loring, Lewis D., and Voss. 3,015,623.
Voss, Josef. Bird cage. 3,029,788, 4–17–62, Cl. 119—18.
Voss, Joseph F. : *See*—
Albinson, Harold H., and Voss. 3,019,671.
Voss, Siegfried, to Aktien-Gesellschaft "Weser." Trip hook for mooring of vessels and releasable locking means therefor. 3,054,635, 9–18–62, Cl. 294—83.
Vossen, Werner : *See*—
Osterloh, Hans, Vossen, and Zumbroich. 3,041,077.
Vosser, John L., to The British Petroleum Co. Ltd. Oxidation of residual petroleum waxes. 3,050,455, 8–21–62, Cl. 208—3.
Vosskühler, Hugo, to Wieland-Werke A.G. Composite mold for continuous castings. 3,059,295, 10–23–62, Cl. 22—57.2.
Vosters, Harry L., to Kunstzijdespinnerij Nyma N.V. Manufacture of thick-skinned or all-skin shaped articles from viscose. 3,016,305, 1–9–62, Cl. 106—165.
Votaw, Clarence J., to Bell Telephone Laboratories, Inc. Station selection system. 3,022,372, 2–20–62, Cl. 178—4.1.
Voth, Donald E., to Copolymer Rubber & Chemical Corp. Apparatus for transmitting rotary motion. 3,049,898, 8–21–62, Cl. 64—28.
Voth, Walter P., to The Akron Standard Mold Co. Retreading equipment. 3,015,130, 1–2–62, Cl. 18—18.
Votre, Louis S., to Avco Mfg. Corp., Lycoming Division. Multi-purpose land and water craft. 3,027,862, 4–3–62, Cl. 115—1.
Voumard, Bertrand : *See*—
Ryser, Ernst. 3,067,255.
Vradenburgh, Robert, A. C. Scribner, and F. H. Haven, to Ward Leonard Electric Co. Ribbon type resistor. 3,044,-034, 7–10–62, Cl. 338—284.
Vreeland, Don H. : *See*—
Peoples, Graydon, and Vreeland. 3,051,228.
Vroom, Edward : *See*—
Dehn, Joseph W., and Vroom. 3,016,189.
Vroom, Harold B. : *See*—
Bliss, Harvey N., and Vroom. 3,019,974.
Vroom, Harold B., to Veeder-Root Inc. Counter. 3,053,-041, 11–13–62, Cl. 235—1.
Vrshek, Steven M., to Turner Corp. Elastic flow restrictor pin assembly with peripherally grooved locking pin. 3,055,-397, 9–25–62, Cl. 138—46.
Vuilleumier, Marcel, to Parechoc S.A. Hairspring adjustment device with stationary eccentric piece. 3,046,725, 7–31–62, Cl. 58—115.
Vuillien, Georges J. J., to Compagnie de Pont-a-Mousson. Sheet bending machine for producing tubular elements and plant including application of said machine. 3,057,394, 10–9–62, Cl. 153—48.
Vulcan-Cincinnati, Inc. : *See*—
Drummond, Virgil D., Gould, and Katzen. 3,055,745.
Vulcan Containers Inc. : *See*—
McMahon, George E. 3,045,859.
Vulcan Equipment Co., Ltd. : *See*—
Alm, Erhard J. 3,029,066.
Alm, Erhard J. 3,041,719.
Vulcan Mfg. Co., Inc. : *See*—
Gebler, Elton M. 3,023,999.
Vulcan Tool Co., The : *See*—
Brehm, Charles M. 3,025,739.
Vulliez, Paul. High-speed universal control system for rotary valves assuming two successive movements. 3,033,513, 5–8–62, Cl. 251—163.
Vutz, Wilhelm, and A. A. Mittenbergs, to Sperry Rand Corp. Hay baler. 3,030,875, 4–24–62, Cl. 100—19.
Vyskumny ustav svaracsky MIID : *See*—
Cabelka, Jozef. 3,046,383.
Vyzkumny a zkusebni letecky ustav : *See*—
Dubský, Bořivoj, and Straka. 3,039,044.
Dubsky, Borivoj, Straka, and Bican. 3,017,575.
Dubsky, Borivoj, Straka, Felkel, and Feuereisl. 3,035,-569.
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Dubsky, Borivoj, Straka, Jahelka, and Sedlacek. 3,042,-858.
Dubský, Bořivoj, Straka, Jiřík, and Sedlacek. 3,026,491.
Dubsky, Borivoj, Straka, and Rajhel. 3,023,614.
Dubsky Borivoj, Straka, and Trefil. 3,020,461.
Dvořáček, Josef. 3,056,099.

Vyzkumny ustav obrabecich stroju a obrabeni: *See*—
Štěpánek, Karel. 3,047,802.
WMB International A.B.: *See*—
Berner, Erling. 3,065,500.
Waag, Harry O., and R. C. Davis, to General Motors Corp. Freezing device. 3,018,636, 1–30–62, Cl. 62—135.
Waale, Marinus J., and J. M. Vos, to Shell Oil Co. Production of organic acids. 3,059,004, 10–16–62, Cl. 260—413.
Waalkes, Robert J., and E. T. Kuhtic, to Hart & Cooley Mfg. Co. Releasable coupling for sheet metal vent pipes. 3,065,002, 11–20–62, Cl. 285—315.
Waarle, Godfried H., and W. L. Vervest, to North-American Philips Co., Inc. Shaft-positioning mechanism. 3,069,611, 12–18–62, Cl. 318—467.
Waas, Heinrich, J. Ehlers, and O. Grim. Icebreaker. 3,045,-628, 7–24–62, Cl. 114—40.
Waber, James T.: *See*—
Coffinberry, Arthur S., and Waber. 3,060,108.
Wabor, A.G., Firma: *See*—
Zumofen, Lothar. 3,037,898.
Wacek, Anton R., to Kimberly-Clark Corp. Process for the production of pulps from lignin-containing cellulose material. 3,070,484, 12–25–62, Cl. 162—23.
Wachi, Francis M.: *See*—
Juvet, Richard S., Jr., and Wachi. 3,048,029.
Wachovia Bank & Trust Co.: *See*—
Johnson, Ernest S. 3,032,820.
Wachsman, William P. Sofa bed. 3,015,112, 1–2–62, Cl. 5—8.
Wachsmann, Konrad, to Armco Steel Corp. Panel for curtain walls. 3,065,831, 11–27–62, Cl. 189—85.
Wachsmuth, Erich A., to Joy Mfg. Co. Control apparatus. 3,034,441, 5–15–62, Cl. 103—41.
Wachsmuth, Erich A., to Joy Mfg. Co. Control circuit. 3,044,681, 7–17–62, Cl. 230—5.
Wachsmuth, Willi, to Hauni-Werke Korber & Co. K.G. Conveyor for packing machines. 3,047,132, 7–31–62, Cl. 198—221.
Wachtberger, Gottfried, vorm. Erich Franke, Maschinenfabrik: *See*—
Schnellmann, Oscar. 3,027,814.
Wachtel, Anselm, to Westinghouse Electric Corp. Electroluminescent phosphor. 3,028,972, 6–19–62, Cl. 252—301.6.
Wachtel, Henry K. Blood cholesterol reducing substance and method of producing the same. 3,034,963, 5–15–62, Cl. 167—74.
Wachtel, William L.: *See*—
Graminski, Edmond L., and Wachtel. 3,030,407.
Wachtell, Richard L.: *See*—
Seelig, Richard P., and Wachtell. 3,065,108.
Wachtell, Richard L., and R. P. Seelig, to Chromalloy Corp. Chromizing metals. 3,028,261, 4–3–62, Cl. 117—107.
Wachtell, Richard L., and R. P. Seelig, to Chromalloy Corp. Diffusion coating of non-ferrous metals. 3,037,883, 6–5–62, Cl. 117—107.
Wacker-Chemie G.m.b.H.: *See*—
Altenschopfer, Theodor. Enk, Knorr, and Spes. 3,043,862.
Bauer, Hans, Bergmeister, and Heckmaier. 3,051,668.
Bergmeister, Eduard, Heckmaier, and Dorlat. 3,046,609.
Dengler, Ludwig. 3,046,160.
Dorlat, Martin, Eckart, and Heckmaier. 3,025,565.
Ebersbach, Hans-Walter, and Heckmaier. 3,027,358.
Edhofer, Georg, Hollerer, Lebsanft, and Schmidt. 3,028,-267.
Enk, Eduard, and Knörr. 3,022,337.
Enk, Eduard, and Knörr. 3,022,338.
Enk, Eduard, and Knörr. 3,022,339.
Enk, Eduard, and Knorr. 3,031,493.
Enk, Eduard, Knorr, and Spes. 3,049,560.
Enk, Eduard, and Nicki. 3,023,087.
Enk, Eduard, and Nicki. 3,065,062.
Enk, Eduard, and Spes. 3,057,912.
Fruhwirth, Otto. 3,027,414.
Fruhwirth, Otto. 3,034,991.
Heckmaier, Joseph, and Bauer. 3,033,839.
Heckmaier, Joseph, and Michl. 3,055,848.
Meikel, Karl. 3,022,269.
Müller, Robert, Buchheit, and Nitzsche. 3,032,439.
Nitzsche, Siegfried, and Wick. 3,032,528.
Nitzsche, Siegfried, and Wick. 3,050,485.
Nitzsche, Siegfried, and Wick. 3,050,490.
Nitzsche, Siegfried, and Wick. 3,050,491.
Nitzsche, Siegfried, and Wick. 3,061,424.
Nitzsche, Siegfried, and Wick. 3,061,578.
Nitzsche, Siegfried, and Wick. 3,065,194.
Nitzsche, Siegfried, and Wick. 3,070,559.
Nitzsche, Siegfried, and Wick. 3,070,566.
Nitzsche, Siegfried, and Wick. 3,070,567.
Piekarski, Gottfried, and Reinecke. 3,031,480.
Wacker, Robert J., to Minneapolis-Honeywell Regulator Co. Control system for a room closing air curtain. 3,018,712, 1–30–62, Cl. 98—36.
Waco-Porter Corp.: *See*—
Moritz, Donald B., and Ferguson. Re. 25,225.
Wacome. Donald M.: *See*—
Trofimow, Alexei, Isaacs, and Wacome. 3,058,962.
Wada, Tadao: *See*—
Ito, Akira, Hamanaka, Takagi, Wada, and Kawada. 3,064,000.
Waddell, James F., Jr.: *See*—
Schmidt, Paul E., and Waddell. 3,056,446.
Waddell, Russell B., Jr.: *See*—
Pauler, Charles J., and Waddell. 3,034,085.
Waddell, Russell B., Jr., to The Dayton Rubber Co. Method of molding high molecular weight polyethylene. 3,036,340, 5–29–62, Cl. 18—55.
Waddil, Paul M., to Phillips Petroleum Co. Foam eliminating feed distributor. 3,057,786, 10–9–62, Cl. 202—53.
Waddington, Basil R.: *See*—
Burridge, Frederick J., and Waddington. 3,066,809.
Waddington, John, Ltd.: *See*—
Dodsworth, Edward. 3,070,004.
Waddington, Rogor S., and B. Duval. Fluid handling means. 3,042,077, 7–3–62, Cl. 137—604.
Waddington-Feather, Sheila M. (nee Booker), B. Ellis, and V. Petrow, to The British Drug Houses Ltd. 16α,17α-dihydroxypregnen-20-ones and process for preparation of same. 3,021,345, 2–13–62, Cl. 260—397.4.
Wade, Daniel M.: *See*—
Ferris, Ernest A., and Wade. 3,049,205.
Wade Electric Products Co.: *See*—
Hess, Lester J., Kennedy, and Long. 3,027,537.
Late, Edward J. 3,029,320.
Long, Jasper, Hess, and Kennedy. 3,038,053.
Wade, Farest C. Hand sheller for green peas. 3,024,791, 3–13–62, Cl. 130—30.
Wade, Frederick D.: *See*—
Brown, Edwards, Woodward, and Wade. 3,060,612.
Wade, Glen, to Zenith Radio Corp. Modulation expander and coupler for parametric amplifiers. 3,059,138, 10–16–62, Cl. 315—3.
Wade, Harry D., and A. E. Scheible, to The Standard Oil Co. Flutting blanket. 3,049,261, 8–14–62, Cl. 220—26.
Wade, Loren F.: *See*—
Cathey, Carrol M., Wade, and Bechtold. 3,042,425.
Wade, Neill G., 3rd: *See*—
Brattain, Walter H., and Wade. 3,022,374.
Wade, Robert E. Seed distributing shoe. 3,021,933, 2–20–62, Cl. 193—9.
Wade, Robert H., to Minnesota Mining and Mfg. Co. Phosphorus containing polymers and method for the preparation thereof. 3,054,785, 9–18–62, Cl. 260—92.1.
Wade, Roger. Viewer for sales promotion and similar purposes. 3,028,789, 4–10–62, Cl. 88—28.
Wade, Roger, J. C. Nemesnyik, and R. Brown, to Charles Beseler Co. Audio-visual apparatus. 3,028,790, 4–10–62, Cl. 88—28.
Wade, Tansil V. Wire coiling and seizing tool. 3,026,052, 3–20–62, Cl. 242—7.
Wade, Thomas B. Ground effect vehicle having an adjustable pressure plate. 3,042,129, 7–3–62, Cl. 180—7.
Wade, William L., Jr., to United States of America, Army. Method of making ferromagnetic barium ferrites. 3,049,-404, 8–14–62, Cl. 23—50.
Wade, Worth, to American Viscose Corp. Shuttle propelling mechanism for looms. 3,026,912, 3–27–62, Cl. 139—142.
Wade, Worth, to American Viscose Corp. Elastic cord. 3,032,456, 5–1–62, Cl. 156—28.
Wade, Worth, to American Viscose Corp. Seamless garment. 3,032,774, 5–8–62, Cl. 2—243.
Wade, Worth, to American Viscose Corp. Plastic lined seals for strapping. 3,045,303, 7–24–62, Cl. 24—18.
Wade, Worth, to American Viscose Corp. Tuffed fabric. 3,059,598, 10–23–62, Cl. 112—79.
Wadelton, Edwin F.: *See*—
Knapp, William E., and Wadelton. 3,037,357.
Wadey, Walter G., to Sperry Rand Corp. Pneumatic keyboard. 3,034,628, 5–15–62, Cl. 197—15.
Wadey, Walter G., to Sperry Rand Corp. Card punch. 3,059,842, 10–23–62, Cl. 234—50.
Wadham, Ambrose E. Method of manufacturing a reinforced plastic article. 3,061,888, 11–6–62, Cl. 18—59.
Wadman, Anders G.: *See*—
Aarvold, Reinhardt, Olai, Isaksson, and Wadman. 3,056,386.
Wadman, William H.: *See*—
Mitchell, Reid L., Berry, and Wadman. 3,018,158.
Wadsworth, Alexander S. C., and F. B. Peacock. Accessory traction units. 3,058,783, 10–16–62, Cl. 305—51.
Wadsworth, Arthur W., to Elgin National Watch Co. Sealed watch case. 3,020,703, 2–13–62, Cl. 58—90.
Wadsworth Electric Mfg. Co., Inc., The: *See*—
Middendorf, William H. 3,018,351.
Wadsworth, Francis T., and J. R. Kenton, to Standard Oil Co. Process for the hydrogenation of hydrocarbon resins with metallic nickel. 3,040,009, 6–19–62, Cl. 260—82.
Wadsworth, Gordon W.: *See*—
Morris, George E., and Wadsworth. 3,058,090.
Wadsworth, William S., Jr.: *See*—
Emmons, William D., and Wadsworth. 3,068,060.
Wadsworth, William S., Jr., to Rohm & Haas Co. Dialkyl 1-cyanovinylphosphoanates, their preparation, and polymers and copolymers thereof. 3,047,606, 7–31–62, Cl. 260—461.
Wadsworth, William S., Jr., and W. D. Emmons, to Rohm & Haas Co. Cyclic phosphonates and methods of preparation. 3,033,887, 5–8–62, Cl. 260—461.
Wadsworth, William S., Jr., and W. D. Emmons, to Rohm & Haas Co. Vinyl cyclic phosphates and method of preparation. 3,033,888, 5–8–62, Cl. 260—461.
Wadsworth, William S., Jr., and W. D. Emmons, to Rohm & Haas Co. Bicyclic thiophosphates. 3,038,001, 6–5–62, Cl. 260—461.

Waecker, Norman J.: *See*—
MacDonald, Hugh D., Jr., Markgraf, and Waecker. 3,057,263.
MacDonald, Hugh D., Jr., Stott, and Waecker. 3,055,619.
Stott, Albert M., and Waecker. 3,034,289.

Wagaman, Merle L., to Fibreboard Paper Products Corp. Carton closure flap construction. 3,018,941, 1–30–62, Cl. 229—51.

Wagemaker, Raymond O. Simulated lap-strake structure. 3,038,179, 6–12–62, Cl. 9—6.

Wagemann, Heinrich W., to Monroe Calculating Machine Co. Keyboard mechanism. 3,024,988, 3–13–62, Cl. 235—145.

Wagemann, Heinrich W., to Monroe Calculating Machine Co. Decimal point mechanism. 3,051,082, 8–28–62, Cl. 101—93.

Wagemann, Heinrich W., to Monroe Calculating Machine Co. Decimal point mechanism. 3,057,549, 10–9–62, Cl. 235—60.

Wagenfeld, Gilbert B. Head-piece construction. 3,027,564, 3–3–62, Cl. 2—181.

Wagenhals, Rupert S. Dispenser for simultaneously discharging material from a plurality of collapsible tubes. 3,029,-983, 4–17–62, Cl. 222—94.

Wagenius, Hans B., to Svenska Rotor Maskiner Aktiebolag. Rotary device, such as refrigerating machine or similar device. 3,045,447, 7–24–62, Cl. 62—172.

Wagenseil, Gottfried, and K. Dohmstreich, to North American Philips Co., Inc. Ships' order telegraph system. 3,021,391, 2–13–62, Cl. 179—82.

Waggener, Kenneth E.: *See*—
McClintock, Ross A., Thompson, and Waggener. 3,056,-614.

Waggener, Kenneth E., ⅓ to R. A. McClintock and ⅓ to R. E. Thompson. Safety joint connecter. 3,061,336, 10–30–62, Cl. 285—84.

Waggoner, Jack H.: *See*—
Helbing, Clarence H., and Waggoner. 3,056,707.

Waggoner, Jack H., to Owens-Corning Fiberglas Corp. Fibrous structures and methods for manufacturing same. 3,020,189, 2–6–62, Cl. 156—334.

Waggoner, Thomas J. Holding fixture for cylinder heads. 3,048,387, 8–7–62, Cl. 269—51.

Waggoner, William G. Drill grinding attachment. 3,060,-645, 10–30–62, Cl. 51—124.

Waggonfabrik Talbot: *See*—
Stiefel, Christian J., and Konig. 3,019,743.

Waggott, John B., to Vessa Ltd. Artificial legs. 3,039,116, 6–19–62, Cl. 3—22.

Wagman, Alexander: *See*—
Brach, Eugene. 3,016,442.

Wagman, Charles H.: *See*—
Becker, John, and Wagman. 3,050,854.

Wagner, Adolph A., to R & B Wagner, Inc. Method of making end caps for pipe railings. 3,050,844, 8–28–62, Cl. 29—520.

Wagner, Adolph A., to R & B Wagner, Inc. Hand rail bracket and filler. 3,051,426, 8–28–62, Cl. 248—205.

Wagner, Alan R.: *See*—
Hoff, Donald A., and Wagner. 3,041,237.

Wagner, Arthur C. Device for winding or coiling expansion anchors from flat material. 3,038,521, 6–12–62, Cl. 153—64.

Wagner, Arthur F., to Merck & Co., Inc. Process for making 2 - (6 - hydroxy - 2 - methoxy-3,4-methylenedioxyphenyl)-benzofuran. 3,057,876, 10–9–62, Cl. 260—340.5.

Wagner, Arthur F., to Merck & Co., Inc. O-trimethylsilyloxyphenylacetonitrile. 3,068,265, 12–11–62, Cl. 260—448.8.

Wagner, August J., to Sharon Tube Co. Butt-weld pipe manufacture. 3,054,605, 9–18–62, Cl. 263—3.

Wagner Brothers Inc.: *See*—
Borodin, Daniel J. 3,051,288.

Wagner, Charles R.: *See*—
De Long, Richard C., Kaplan, and Wagner. 3,035,078.

Wagner & Co.: *See*—
Strugala, Alfred, Sporenberg, and Schmidt. 3,064,507.

Wagner, Dorothy M.: *See*—
Davis, Wilbur A. 3,020,790.

Wagner, E. R., Mfg. Co.: *See*—
Garms, Ralph F. 3,061,857.
Stevens, Clifford B., and Garms. 3,034,163.

Wagner, Earl W.: *See*—
Schwalm, Glendon H., Ullman, and Wagner. 3,062,390.

Wagner, Eddie B., to Wagner Mining Scoop Co. Loader for mines. 3,038,619, 6–12–62, Cl. 214—140.

Wagner, Edgar C., to The Weinman Pump & Supply Co. Hydraulic constant pressure applicator. 3,058,448, 10–16–62, Cl. 121—38.

Wagner, Edmond M., to Olin Mathieson Chemical Corp. Aluminum anodizing apparatus. 3,038,850, 6–12–62, Cl. 204—206.

Wagner, Edward E., and L. H. Gibson, to Philip Morris Inc. Machine and method for forming continuous tubes. 3,060,-814, 10–30–62, Cl. 93—1.

Wagner, Edward W., and C. W. Stetter, to Continental Can Co., Inc. Can body side seam soldering machine. 3,030,904, 4–24–62, Cl. 113—115.

Wagner, Edward W., and C. W. Stetter, to Continental Can Co., Inc. Score line testing method and apparatus. 3,037,-379, 6–5–62, Cl. 73—96.

Wagner, Eleanor I. Jet engine blast fence. 3,017,146, 1–16–62, Cl. 244—114.

Wagner Electric Corp.: *See*—
Doelling, George L., and Siefker. 3,032,504.
Falk, Edward J., Gold, and Schnell. 3,036,668.
Fannon, Robert D., Jr., and Behm. 3,066,208.
Gold, Robert L., and Schwartz. 3,028,935.
Gold, Robert L., and Schwartz. 3,044,582.
Malsbary, James S. 3,025,453.
Malsbary, James S. 3,025,454.
May, Walter C., Richards, and Fites. 3,060,899.
Richards, Grahame P. 3,070,288.
Schnell, Steve. 3,032,992.
Schnell, Steve. 3,064,346.
Schnell, Steve. 3,064,431.
Schwartz, Robert E. 3,031,235.
Schwartz, Robert E. 3,047,103.
Schwartz, Robert E. 3,047,105.
Schwartz, Robert E., Stahl, and Falk. 3,044,265.
Schwartz, Robert E., Stahl, and Falk. 3,050,944.

Wagner, Elmer A. Rough terrain amphibious vehicle. 3,057,-319, 10–9–62, Cl. 115—1.

Wagner, Elmer K., to The Ingersoll Milling Machine Co. Electrical measuring apparatus. 3,034,715, 5–15–62, Cl. 235—132.

Wagner, Elmer R.: *See*—
Marquis, Donald P., and Wagner. 3,029,617.

Wagner, Eric G., to International Business Machines Corp. Asynchronous parallel adder deriving intermediate sums and carries by repeated additions and multiplications. 3,056,552, 10–2–62, Cl. 235—175.

Wagner, Ernest A., to General Electric Co. Expansible broiling rack. 3,033,100, 5–8–62, Cl. 99—402.

Wagner, Ferdinand, H.-A. Brandt, and H. Müller, to Agfa Aktiengesellschaft. Suspension arrangement. 3,048,220, 8–7–62, Cl. 160—328.

Wagner, Francis J.: *See*—
Kelley, Bartram, Lynn, and Wagner. 3,035,643.

Wagner, George L. Dispenser for granulated material. 3,023,935, 3–6–62, Cl. 222—164.

Wagner, George M., to Olin Mathieson Chemical Corp. Treatment of cellulosic materials to resist fungicidal attack. 3,018,196, 1–23–62, Cl. 117—143.

Wagner, George M., to Hooker Chemical Corp. Flame proofing of cellulosic materials. 3,054,698, 9–18–62, Cl. 117—136.

Wagner, George M., to Olin Mathieson Chemical Corp. Bleaching cellulosic materials. 3,063,783, 11–13–62, Cl. 8—108.

Wagner, Gunther: *See*—
Ambros, Hans. 3,019,767.
Harbort, Ludwig. 3,035,935.
Harbort, Ludwig, and Rahn. 3,047,632.

Wagner, Hans, to Fireless Gas Heater Corp. Glow burner for fuel-air mixture. 3,057,400, 10–9–62, Cl. 158—99.

Wagner, Hans, to L. Schuler A.G. Automatic blank feeding mechanism for horizontally arranged presses. 3,069,-010, 12–18–62, Cl. 207—1.

Wagner, Heinrich, to Zahnradfabrik Friedrichshafen, Aktiengesellschaft. Steering locking mechanism for motor vehicles, particularly tractors. 3,058,368, 10–16–62, Cl. 74—495.

Wagner, Heinrich, and E. Jablonsky, to Zahnradfabrik Friedrichshafen, Aktiengesellschaft. Booster steering mechanism for motor vehicles. 3,023,629, 3–6–62, Cl. 74—105.

Wagner, Herman B., to Tile Council of America, Inc. Dry cement composition comprising Portland cement, methyl cellulose and polyvinyl alcohol and method of installing tile with same. 3,030,258, 4–17–62, Cl. 156—71.

Wagner, Herman B., and E. E. Weller, to Tile Council of America, Inc. Dry epoxy resin adhesive composition and process for preparing same. 3,050,493, 8–21–62, Cl. 260—37.

Wagner, Howard A., to Westinghouse Electric Corp. Current rectifier assembly. 3,018,425, 1–23–62, Cl. 317—234.

Wagner, Howard A., to Westinghouse Electric Corp. Rectifier structure. 3,023,346, 2–27–62, Cl. 317—234.

Wagner, Howard A., to Westinghouse Electric Corp. Thermoelectric device. 3,035,416, 5–22–62, Cl. 62—3.

Wagner, Howard A., to Westinghouse Electric Corp. Current rectifier bridge. 3,064,179, 11–13–62, Cl. 321—8.

Wagner, Howard A., to Westinghouse Electric Corp. Hermetically sealed semiconductor devices. 3,068,382, 12–11–62, Cl. 317—234.

Wagner, Howard F.: *See*—
Davis, Wilbur A. 3,020,790.

Wagner, Irven F.: *See*—
Hibshman, Henry J., Louis, and Wagner. 3,061,975.
Louis, Robert A., and Wagner. 3,061,974.

Wagner, Jack M. Apparatus for incising and imprinting information. 3,059,570, 10–23–62, Cl. 101—19.

Wagner, James B., and K. O. Straney, to General Electric Co. Control system. 3,064,435, 11–20–62, Cl. 60—67.

Wagner, Jan K.: *See*—
Krupp, Robert F., and Wagner. 3,019,924.
Krupp, Robert F., and Wagner. 3,028,946.
Krupp, Robert F., and Wagner. 3,040,875.

Wagner John A. Retractable vehicle steps. 3,039,562, 6–19–62, Cl. 182—91.

Wagner, John G.: *See*—
Jensen, Erik H., and Wagner. 3,069,370.
Wagner, John W.: *See*—
Lewis, William G., and Wagner. 3,067,720.
Wagner, John W., to Richfield Oil Corp. Preparation of chlorinated naphthalenes. 3,051,763, 8–28–62, Cl. 260—650.
Wagner, Joseph P., to Robertshaw-Fulton Controls Co. Fusion type thermal element. 3,046,787, 7–31–62, Cl. 73—368.3.
Wagner, Joseph P., to Robertshaw-Fulton Controls Co. Thermostatic control valve. 3,057,556, 10–9–62, Cl. 236—34.5.
Wagner, Kuno, to Bayer Aktiengesellschaft. Farbenfabriken. Process for the acylation of polyoxymethylenes. 3,046,251, 7–24–62, Cl. 260—67.
Wagner, Kuno, and O. Bayer, ½ to Farbenfabriken Bayer Aktiengesellschaft, and ½ to Mobay Chemical Co. Production of urethane polyisocyanate-urea diisocyanate mixtures. 3,023,228, 2–27–62, Cl. 260—471.
Wagner, Kuno, E. Muller, H. Holtschmidt, and O. Bayer, ½ to Bayer Aktiengesellschaft, Farbenfabriken, and ½ to Mobay Chemical Co. Prepolymer comprising the reaction product of a polyisocanate, a polyalkylene ether polyalcohol and an amide or phenol, reaction product thereof with formaldehyde, and process for preparing same. 3,043,801, 7–10–62, Cl. 260—47.
Wagner, Lawrence R.: *See*—
Detrich, Keith R., and Wagner. 3,037,288.
Wagner, Leland B., to Penn Controls, Inc. Flame detector. 3,038,978, 6–12–62, Cl. 200—138.
Wagner, Leland B., to Penn Controls, Inc. Flame detector. 3,059,080, 10–16–62, Cl. 200—138.
Wagner, Manfred, and M. Kolb, to International Standard Electric Corp. Electrical condenser. 3,054,029, 9–11–62, Cl. 317—230.
Wagner, Max, and B. Schubert, to Dr. Ing. h.c.F. Porsche, K.G. Control arrangement for internal combustion engines. 3,025,843, 3–20–62, Cl. 173—140.
Wagner, Merrill A. Hinge. 3,067,452, 12–11–62, Cl. 16—149.
Wagner Mining Scoop Co.: *See*—
Wagner, Eddie B. 3,038,619.
Wagner, Nicholas A.: *See*—
Murphy, Alfred M., Filak, and Wagner. 3,019,144.
Wagner, Otto, to Grob & Co., A.G. Leno heald. 3,016,924, 1–16–62, Cl. 139—51
Wagner, Ovner R., Jr.: *See*—
Berry, Virgil J., Jr., Leach, and Wagner. 3,028,912.
Wagner, Pierce W., to Ford Motor Co. Wheel cover. 3,043,632. 7–10–62, Cl. 301—37
Wagner Products Co.: *See*—
Lariscy, Alec D. 3,039,452.
Wagner, R & B, Inc.: *See*—
Wagner, Adolph A. 3,050,844.
Wagner, Adolph A. 3,051,426.
Wagner, Raphael J.: *See*—
Kogan, Philip, Wolanek, and Wagner. 3,017,486.
Wagner, Richard V. Self-adjustable rotatable surface conditioning device. 3,045,267, 7–24–62, Cl. 15—50.
Wagner, Robert. Phonographic recording. 3,023,011, 2–27–62, Cl. 274—46.
Wagner, Robert. Stylus recording with superimposed high frequency excitation. 3,042,757, 7–3–62, Cl. 179—100.4.
Wagner, Robert H., to Westinghouse Electric Corp. Elevator signalling devices. 3,030,607, 4–17–62, Cl. 340—21.
Wagner, Robert W. Electrically heated key. 3,022,408, 2–20–62, Cl. 219—19.
Wagner, Robert W., to Dana Corp. Split drive shaft power take-off unit. 3,049,929, 8–21–62, Cl. 74—15.2.
Wagner, Ross I.: *See*—
Burg, Anton B., and Wagner. 3,025,326.
Burg, Anton B., and Wagner. 3,065,271.
Wagner, Samuel, and T. K. Kellner. Christmas tree stand. 3,051,423, 8–28–62, Cl. 248—45.
Wagner, Thomas C. G., to Minneapolis-Honeywell Regulator Co. Variable frequency oscillator. 3,064,205, 11–13–62, Cl. 331—109.
Wagner, Walter W.: *See*—
Furman, Frank J., and Wagner. 3,015,453.
Wagner, Werner: *See*—
Albrecht, Wolfram, and Wagner. 3,054,327.
Wagner, William. Adapter for nuts, bolts, wrenches and the like. 3,027,790, 4–3–62, Cl. 81—121.
Wagner, William. Hydraulic shock absorbers. 3,030,100, 4–17–62, Cl. 267—8.
Wagner, William. Fin straightening comb. 3,041,900, 7–3–62. Cl. 81—15.
Wagner, William H. Animated amusement device. 3,060,632, 10–30–62, Cl. 46—137.
Wagner, William T., to Dayco Corp. Apparatus for cutting sheet material. 3,025,741, 3–20–62. Cl. 83—431.
Wagner, William T., to Dayco Corp. Flexible cellular product and method of forming same. 3,044,918, 7–17–62, Cl. 154—54.
Wagnon, Hubert H., and R. A. Blair, to Drilprodco, Inc. Roller assemblies. 3,054,466, 9–18–62, Cl. 175—347.
Wagoner, Billy J., to United States of America, Navy. Variable sensitivity inertia switch. 3,054,870, 9–18–62, Cl. 200—61.45.
Wagoner, Edwin L.: *See*—
Barrett, Burkett R., III, and Wagoner. 3,067,026.
Elbaum, Jerome K., and Wagoner. 3,068,096.
Wagoner, James E. Force transmitting tool. 3,064,342, 11–20–62, Cl. 29—275.
Wagoner, John A.: *See*—
Etheridge, Oliver R., Wagoner, McDonald, and Lippincott. 3,067,067.
Wagoner, Lucille E., and D. M. Card. Controlled measuring dispenser. 3,036,742, 5–29–62, Cl. 222—158.
Wagoner, Robert V.: *See*—
Collen, Edwin G., and Wagoner. 3,027,797.
Wagoner, Robert V., Jr., and E. G. Collen, to General Precision Inc. Self-contained celestial navigation device. 3,037,284, 6–5–62, Cl. 33—1.
Wagoner, Roy W.: *See*—
Zillman, Jack H., Wagoner, Williams, and Sharp. 3,027,849.
Wagoner Webster, Inc.: *See*—
Webster, Robert G. 3,037,224.
Wahl, Albert J., J. F. Lux, and R. E. Gould, to Buffalo China, Inc. Method for shaping appendages on ceramic articles. 3,068,543, 12–18–62, Cl. 25—156.
Wahl Clipper Corp.: *See*—
Wahl, John F. 3,026,430.
Wahl, John F. 3,047,948.
Wahl, John F. 3,048,721.
Wahl, John F. 3,052,022.
Wahl, John F. 3,060,570.
Wahl, John F. 3,060,571.
Wahl, John F. 3,063,443.
Wahl, John F. 3,064,348.
Wahl, John F. 3,067,511.
Wahl, Warren P. 3,031,758.
Wahl, Frank: *See*—
Crosby, Charles H., Hicks, Wahl, and Wahlberg. 3,026,-010.
Wahl, Frank, to Western Electric Co., Inc. Spooling mechanism. 3,022,098, 2–20–62, Cl. 287—52.07.
Wahl, Frank, to Western Electric Co., Inc. Tool for forming can bodies. 3,025,903, 3–20–62, Cl. 153—2.
Wahl, Frank, to Western Electric Co., Inc. Control switches for multi-unit binder. 3,035,394, 5–22–62, Cl. 57—19.
Wahl, Frank, to Western Electric Co., Inc. Apparatus for winding strands. 3,038,674, 6–12–62, Cl. 242—25.
Wahl, Frederick W.: *See*—
Cobaugh, Robert F., and Wahl. 3,018,816.
O'Keefe, Michael F., and Wahl. 3,015,683.
Wahl, John F., to Wahl Clipper Corp. Vibratory electromagnetic motor. 3,026,430, 3–20–62, Cl. 310—29.
Wahl, John F., to Wahl Clipper Corp. Drive finger for vibrating motor. 3,047,948, 8–7–62, Cl. 30—210.
Wahl, John F., to Wahl Clipper Corp. Housing for appliances. 3,048,721, 8–7–62, Cl. 310—29.
Wahl, John F., Wahl Clipper Corp. Mounting structure for shaver blade. 3,052,022, 9–4–62, Cl. 30—43.
Wahl, John F., to Wahl Clipper Corp. Mounting structure for movable cutting blade. 3,060,570, 10–30–62, Cl. 30—43.
Wahl, John F., to Wahl Clipper Corp. Blade for electric shaver. 3,060,571, 10–30–62, Cl. 30—43.
Wahl, John F., to Wahl Clipper Corp. Base assembly for massage device. 3,063,443, 11–13–62, Cl. 128—32.
Wahl, John F., to Wahl Clipper Corp. Blade for a dry shaver. 3,064,348, 11–20–62, Cl. 30—43.
Wahl, John F., to Wahl Clipper Corp. Drive connection for a shaver blade. 3,067,511, 12–11–62, Cl. 30—43.
Wahl, Nicholas A. Separable fastener assembly. 3,057,031, 10–9–62, Cl. 24—205.16.
Wahl, Ottmar: *See*—
Burgardt, Lothar, Pelz, and Wahl. 3,034,891.
Himmelmann, Wolfgang, Von Rintelen, and Wahl. 3,061,436.
Menzel, Karl-Heinz, Wahl, and Pelz. 3,061,432.
Puschel, Walter, Wahl, Pelz, and Schellenberger. 3,028,-238.
Wahl, Robert H.: *See*—
Ruhl, John H., and Wahl. 3,032,350.
Wahl, Warren P., to Wahl Clipper Corp. Casing structure for hair clipper. 3,031,758, 5–1–62, Cl. 30—201.
Wahlberg, Roger R.: *See*—
Crosby, Charles H., Dzugan, Hicks, and Wahlberg. 3,029,959.
Crosby, Charles H., Hicks, Pizzi, and Wahlberg. 3,023,-877.
Crosby, Charles H., Hicks, Wahl, and Wahlberg. 3,026,-010.
Crosby, Charles H., Hicks, and Wahlberg. 3,017,450.
Wahlen, Raymond E. Dumping hay rake. 3,053,036, 9–11–62, Cl. 56—386.
Wahlfeld, James A. Threshold. 3,061,896, 11–6–62, Cl. 20—64.
Wahlig, Charles F.: *See*—
Umberger, Jacob Q., and Wahlig. 3,062,750.
Wahlin, Claes E., to Skandinaviska Aerosol Aktiebolaget. Liquid mixture for expulsion from a pressure container. 3,062,751, 11–6–62, Cl. 252—305.
Wahlin, Harold V., to Electric Storage Battery Co. Continuous cell closing machine and method. 3,069,754, 12–25–62, Cl. 29—155.55.
Wahlström, Gustaf A. Push button switch. 3,051,810, 8–28–62, Cl. 200—153.
Wahlstrom, Nils E.: *See*—
Peek, Marion L., and Wahlstrom. 3,055,467.
Wahlström, Sven E., to Aktiebolaget Atvidabergs Industrier. Device for a winding mechanism for record tapes. 3,025,-017, 3–13–62, Cl. 242—73.3.

Wahlstrom, Sven E., to Atvidabergs Industrier Aktiebolaget. Tape handling device. 3,058,683, 10–16–62, Cl. 242—55.11.

Wahlström, Sven E. Multi-transducer head with spaced tape guide. 3,065,312, 11–20–62, Cl. 179—100.2.

Wahnish, George I. Razor with reciprocating shaving head. 3,027,636, 4–3–62, Cl. 30—45.

Waibel, Anthony J., to Ingersoll-Rand Co. Compressor piston cooling system. 3,048,411, 8–7–62, Cl. 277—74.

Waibel, Wilhelm, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Textile bleaching process using chlorite bleaching baths. 3,065,040, 11–20–62, Cl. 8—108.

Waid, Donald E.: *See*—
Yeo, Robert H., and Waid. 3,051,464.

Waid, Ted H., and D. Coleman, to Monsanto Canada Ltd. Process for the preparation of 2,4-bis-(chloromethyl)-toluene. 3,021,375, 2–13–62, Cl. 260—651.

Wainer, Eberhard. Concrete mix or the like. 3,062,514, 11–6–62, Cl. 259—160.

Wainer, Eberhard, and R. Riker. Concrete mixer. 3,066,-919, 12–4–62, Cl. 259—160.

Wain-Roy Corp.: *See*—
Holopainen, Vaino J. 3,047,109.
Holopainen, Vaino J., and King. 3,057,494.

Waine, Peter, and D. E. Abel, to United Kingdom Atomic Energy Authority. Evaporators. 3,035,634, 5–22–62, Cl. 159—44.

Wainer, Eugene, to Horizons Inc. Method of writing on anodized aluminum. 3,017,285, 1–16–62, Cl. 117—8.

Wainer, Eugene, to Horizons Inc. Print-out compositions for photographic purposes and process of using same. 3,042,515, 7–3–62, Cl. 96—48.

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Wainer, Eugene, to Horizons Inc. Latent image photographic system. 3,042,517, 7–3–62, Cl. 96—48.

Wainer, Eugene, to Horizons Inc. Light sensitive photographic compositions. 3,042,518, 7–3–62, Cl. 96—48.

Wainer, Eugene, to Horizons Inc. Latent image photographic system. 3,042,519, 7–3–62, Cl. 96—48.

Wainer, Eugene, to Horizons Inc. Print-out photoresists and method of making same. 3,046,125, 7–24–62, Cl. 96—35.

Wainer, Eugene, to Horizons Inc. Print-out and developable-out photographic processes. 3,056,673, 10–2–62, Cl. 96—48.

Wainer, Eugene, and A. L. Cunningham, to Horizons Inc. Refractory material. 3,023,115, 2–27–62, Cl. 106—65.

Wainerdi, Richard E.: *See*—
Fabian, Francis G., Jr., Mann, Knippenberg, and Wainerdi. 3,049,617.

Wainrib, Jules, to Westinghouse Electric Corp. Pressure controlling system. 3,060,110, 10–23–62, Cl. 204—193.2.

Wainwright, Carlyle H.: *See*—
Deans, Frederick E., and Wainwright. 3,057,176.

Wainwright, Carlyle H., to The Bentley Engineering Co. Ltd. Feeding attachments for circular knitting machines. 3,018 646, 1–30–62, Cl. 66—140.

Wainwright, Carlyle H., and F. E. Deans, to The Bentley Engineering Co. Ltd. Control mechanism for circular knitting machines. 3,022,652, 2–27–62, Cl. 66—154.

Wainwright, William L., to Fasco Industries, Inc. Damping device for light weight flap. 3,067,670, 12–11–62, Cl. 98—116.

Waite, Fred L., to American Machine & Foundry Co. Wrapping machine band sealer. 3,030,244, 4–17–62, Cl. 156—499.

Waite, John: *See*—
Berrill, William H., Szerszynski, and Waite. 3,056,165.

Waite, John L., to A. Robinson & Co. Ltd. Jig for portable woodworking tool. 3,057,383 10–9–62 Cl. 144—85.

Waite, Lynn E.: *See*—
O'Brien, Charles J., and Waite. 3,048,338.

Waite, Virgil H., and B. P. Martin, to McGean Chemical Co. Self-leveling bright nickel plating bath and process. 3 017.333, 1–16–62, Cl. 204—49.

Waite, William G., M. Varvill, P. V. Palmer, and J. H. K. Tait, to F. A. Hughes & Co. Ltd. Protection of ships' hulls. 3,069,336, 12–18–62, Cl. 204—148.

Wajda, Edward S.: *See*—
Brock, Geoffrey E., and Wajda. 3,036,898.

Wakaki, Shigetoshi: *See*—
Kamada, Hideo, Wakaki, Tomioka, Ueyama, Uzu, Marumo, and Fujimoto. 3,044,935.

Wakefield, Charles E., Jr.: *See*—
Chamberlain, Richard O., and Wakefield. 3,051,242.

Wakefield, Douglas B., to Lockheed Aircraft Corp. Openable aircraft window. 3,050,790, 8–28–62, Cl. 20—42.

Wakefield, Lowell A., to Wakefield's Deep Sea Trawlers, Inc. Preparation of king crab legs. 3,022,175, 2–20–62, Cl. 99—111.

Wakefield, Walter H., to Carl N. Beetle Plasties Corp. Method of making a filter cartridge. 3,026,610, 3–27–62, Cl. 29—451.

Wakefield's Deep Sea Trawlers, Inc.: *See*—
Wakefield, Lowell A. 3,022,175.

Wakeman, Alden H., to The Creamery Package Mfg. Co. Freezer apparatus. 3,015,218, 1–2–62, Cl. 62—306.

Wakeman, Alden H., to The Creamery Package Mfg. Co. Agitator construction. 3,037,748, 6–5–62, Cl. 259—109.

Wakeman, Alden H., to The Creamery Package Mfg. Co. Valve construction. 3,043,327, 7–10–62, Cl. 137—112.

Wakeman, Alfred W., to Acme Brief Case Co. Inc. Holder for loose leaf sheets. 3,032,040, 5–1–62, Cl. 129—8.

Wakeman, Harold R. Shoe-shaping device. 3,035,289, 5–22–62, Cl. 12—120.5.

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Wakeman, Reginald L., and W. L. Ginilewicz, to Onyx Chemical Corp. Antistatic treatment of hydrophobic fertile material. 3,063,870, 11–13–62, Cl. 117—139.5.

Wakkila, Albert J.: *See*—
Cotesworth, Harry A., and Wakkila. 3,062,155.

Waland, Robert L. Astronomical cameras and optical systems therefor. 3,049,054, 8–14–62, Cl. 88—57.

Walander, Karl O. T.: *See*—
Fonden, Per B., and Walander. 3,032,293.
Fonden, Per B., and Walander. 3,058,703.

Walbaum, Jacques. Liquid gas evaporation plant. 3,031,857, 5–1–62, Cl. 62—52.

Walberg, Arvid C. Spray gun for electrostatic coating. 3,056,557, 10–2–62, Cl. 239—15.

Walberg, Nathan C. Tubular mullion snapon assembly. 3,057,444, 10–9–62, Cl. 189—34.

Walbro Corp.: *See*—
Tucker, Charles H. 3,022,737.

Walch, Kurt R., to General Electric Co. Wiring grille. 3,024,301, 3–6–62, Cl. 174—72.

Walchhuetter, Ulrico. Electric and electronic circuits for controlling friction presses. 3,069,742, 12–25–62, Cl. 25—45.

Wald, George P.: *See*—
Griffiths, Ronald E., and Wald. 3,055,491.

Wald, Herman. Remote metering of electric energy with current transformer. 3,051,899, 8–28–62, Cl. 324—127.

Wald Industries, Inc.: *See*—
Bagshaw, Robert B. 3,040,594.
Bagshaw, Robert E. 3,041,999.
Coffman, Frederick E. 3,049,439.
Shaffer, William R. 3,027,647.
Wilson, Rufus W. 3,057,273.

Waldbauer, Walter M., to Westinghouse Electric Corp. Mounting for luminaires. 3,018,081, 1–23–62, Cl. 248—230.

Walde, Arthur W., to Dr. Salsbury's Laboratories. Dinitrobenzamide remedies for coccidiosis and salmonella infections. 3,015,606, 1–2–62, Cl. 167—53.1.

Walde, Robert A.: *See*—
Selwitz, Charles M., and Walde. 3,047,618.

Walde, Robert A., to Goodrich-Gulf Chemicals, Inc. Process for oxidizing aluminum hydrocarbons. 3,016,397, 1–9–62, Cl. 260—448.

Walde, Robert A., to Goodrich-Gulf Chemicals, Inc. Transalkylation of aluminum alkyls. 3,048,612, 8–7–62, Cl. 260—448.

Walde, Robert A., to Gulf Research & Development Co. Process for preparing boron alkyls. 3,070,630, 12–25–62, Cl. 260—606.5.

Walden, Henry W. and R. H. Walden; said H. W. Walden assor. to said R. H. Walden. Irrigators or spray devices. 3,037,505, 6–5–62, Cl. 128—244.

Walden, Henry W. and R. H. Device for dilating and dispensing material to body cavities. 3,039,462, 6–19–62, Cl. 128—260.

Walden, Henry W., and R. H. Device for delivering medicaments or the like to a body cavity. 3,043,305, 7–10–62, Cl. 128—251.

Walden, Henry W. and R. H. Irrigating or spraying devices. 3,062,211, 11–6–62, Cl. 28—244.

Walden, Richard H.: *See*—
Walden, Henry W. and R. H. 3,037,505.
Walden, Henry W. and R. H. 3,039,462.
Walden, Henry W. and R. H. 3,043,305.
Walden, Henry W. and R. H. 3,062,211.

Walden, Richard I.: *See*—
Northup, Joseph A., Jr., and Walden. 3,027,107.

Walden, W. J., Seed Co., Inc.: *See*—
Walden, William J. 3,036,707.

Walden, William J., to W. J. Walden Seed Co., Inc. Method and apparatus for cleaning seeds and separating certain seeds from others. 3,036,707, 5–29–62, Cl. 209—115.

Waldenstrom, Sigurd: *See*—
Ryberg, Nils. 3,066,352.

Walder, Heinz A.: *See*—
Broughton, Leslie W., and Walder. 3,040,521.

Walder, Hermann: *See*—
Buchi, Alfred. 3,015,323.
Wurzel, Hugo. 3,041,712.

Waldes Kohinoor, Inc.: *See*—
Buchi, Alfred. 3,042,012.
Erdmann, Hans. 3,015,882.
Erdmann, Hans. 3,040,419.

Waldhofer, Reinhard, to Koppers Co., Inc. Tubular boiler or heat exchanger with soot blower. 3,045,978, 7–24–62, Cl. 257—1.

Waldick, Leo, to Felten & Guilleaume Carlswerk Aktiengesellschaft. Arrangement for adjusting the frequency-dependent attenuation in submarine cable system. 3,046,499, 7–24–62, Cl. 333—28.

Waldie, Conrad T., Jr., and W. L. Hearn, to Brown Co. Method for wet-creping paper sheet. 3,018,214, 1–23–62, Cl. 162—112.

Waldman, Herbert, to Robosonic National Industries. Method of controlling a terminal circuit by remote control and remote control apparatus. 3,049,592, 8–14–62, Cl. 179—2.

Waldman, Joseph, & Sons: *See*—
Sussman, Vincent, and Siner. 3,037,070.
Waldman, Maurice H.: *See*—
Promislow, Aubert L., and Waldman. 3,016,743.
Waldmann, Hans, and W. Stein, to Henkel & Cie. G.m.b.H. Separation of fatty acid compound mixtures. 3,052,700, 9–4–62, Cl. 260—419.
Waldock, John H.: *See*—
Morreale, Dominick, and Waldock. 3,064,717.
Waldorf, John L. Ink fountains. 3,062,137, 11–6–62, Cl. 101—350.
Waldorf Paper Products Co.: *See*—
Anderson, Carl E. 3,048,324.
Guyer, Reynolds. 3,022,931.
Guyer, Reynolds. 3,058,646.
Guyer, Reynolds, and Sandberg. 3,020,809.
Hennessey, Russell J. 3,029,934.
Hennessey, Russell J. 3,049,278.
Hennessey, Russell J. 3,054,505.
Jaeschke, Harold R. 3,058,619.
Locke, Frank W. 3,027,061.
Mairs, Thomas G. 3,058,582.
Mairs, Thomas G. 3,064,875.
Mairs, Thomas G., and Locke. 3,049,279.
Meyers, Harold S. 3,021,000.
Russell, Henry R., and Locke. 3,054,682.
Sandberg, Nels H. 3,057,769.
Tolaas, William M., and Durand. 3,018,938.
Zastrow, Harold G. 3,027,063.
Zastrow, Harold G. 3,058,644.
Waldron, Clifford R.: *See*—
Keller, Herman, and Waldron. 3,028,776.
Waldron, Felix W. *See*—
Holroyd, Eric, and Waldron. 3,044,727.
Waldron, George W.: *See*—
Periard, John N., and Waldron. 3,055,935.
Waldron, John, Corp.: *See*—
Pomper, Anthony W. 3,034,631.
Waldron, Merritt C.: *See*—
Kristy, John A., and Waldron. 3,070,789.
Waldron, Merritt C., and R. E. Di Maio, to United Aircraft Corp. Aligned brush analogue-to-digittal converter. 3,070,-787, 12–25–62, Cl. 340—347.
Waldron, Ralph E., to Ford Motor Co. Speedometer cable. 3,043,120, 7–10–62, Cl. 64—2.
Waldron, Richard A., to Marconi's Wireless Telegraph Co. Ltd. Broad band Faraday rotators. 3,067,395, 12–4–62, Cl. 333—24.
Waldron, Stoddard S., to The Babcock & Wilcox Co. Method and apparatus for generating and superheating vapor. 3,049,105. 8–14–62, Cl. 122—483.
Waldroop, Dee B., to Texaco Inc. Method of measuring borehole capacity. 3,021,425, 2–13–62, Cl. 250—43.5.
Waldrop, Charles R.: *See*—
Gerhardt, Andrew H., and Waldrop. 3,022,655.
Knerr, Carl J., and Waldrop. 3,057,218.
Waldrop, Charles R., to Borg-Warner Corp. Water supply means for washing machine. 3,020,741, 2–13–62, Cl. 68—23.
Waldrop, Robert F., to Milbank Mfg. Co., Inc. Bypass structure for electrical meter sockets. 3,029,322, 4–10–62, Cl. 200—51.1.
Waldrop, Roy. Composite rod and method of making. 3,028,-644, 4–10–62, Cl. 22—202.
Waldroup, Thomas C., to Empire Rubber Co. Swab rubber unit for well swab. 3,023,062, 2–27–62, Cl. 309—52.
Waldrop, Thomas C., to Empire Rubber Co. Swab rubber unit for well swab. 3,031,241, 4–24–62, Cl. 309—52.
Walenga, Victor L. Weatherseal for doors. 3,019,493, 2–6–62, Cl. 20—67.
Wales, Charles C.: *See*—
Kirchner, George J., and Wales. 3,052,338.
Wales, Charles C., to United States Steel Corp. Rolling mill and retractable stand therefor. 3,043,170, 7–10–62, Cl. 80—36.
Wales, Charles C., deceased (C. G. Wales, executrix), to United States Steel Corp. Continuous method of making pipe. 3,050,022, 8–21–62, Cl. 113—33.
Wales, Fred A. Liquid cooled vehicle brakes. 3,029,908, 4–17–62, Cl. 188—264.
Wales, Gladys C.: *See*—
Wales, Charles C. 3,050,022.
Wales, Nathaniel B., Jr., to Monroe Calculating Machine Co. Combined business machine and tape perforator. 3,018,-040, 1–23–62, Cl. 235—60.4.
Wales, Nathaniel B., Jr., to Monroe Calculating Machine Co. Translator. 3,024,976, 3–13–62, Cl. 235—61.
Walhof, Elmer, J. B., and P. A., to Deere & Co. Conveyor. 3,036,688, 5–29–62, Cl. 198—7.
Walhof, John B.: *See*—
Walhof, Elmer, J. B., and P. A. 3,036,688.
Walhof, Peter A.: *See*—
Walhof, Elmer, J. B., and P. A. 3,036,688.
Walk, Warren W.: *See*—
Grover, Shamsher S., Grubb, and Walk. 3,023,842.
Grubb, George C., Walk, and Grover. 3,023,843.
Walker, Alec H. B., to Westinghouse Electric Corp. Electrical control apparatus. 3,040,239, 6–19–62, Cl. 323—24.
Walker, Alfred O., to Nalco Chemical Co. Water treatment compositions and processes for their production and use. 3,023,169, 2–27–62, Cl. 252—175.
Walker, Arthur D.: *See*—
Madge, Joseph G., and Walker. 3,048,214.
Walker, Bradford H., and I. B. Forsblad, to The Upjohn Co. Process for converting 11-hydroxy steroid compounds to corresponding keto derivatives. 3,057,884, 10–9–62, Cl. 260—397.3.
Walker, Brooks: *See*—
Schultz, Henry J. 3,048,034.
Walker, Brooks. Cable connected auxiliary vehicle suspension. 3,041,086, 6–26–62, Cl. 280—124.
Walker, Brooks. Hydraulic jack. 3,057,423, 10–9–62, Cl. 180—1.
Walker, Brooks. Motor vehicle lifting and traversing device 3,061,028, 10–30–62, Cl. 180—1.
Walker, Cecile: *See*—
Dorey, Michael J., Mitchell, Rule, and Walker. 3,069,329.
Walker, Chapman J.: *See*—
Rosen, Tom, Jaklitsch, Mayr, and Walker. 3,048,365.
Walker, Charles R.: *See*—
Semancik, Joseph T., and Walker. 3,043,905.
Walker, Charles R. Combined book support and carrier. 3,041,774, 7–3–62, Cl. 45—64.
Walker, Charles W. E., to Beloit Iron Works. Transfer press. 3,023,805, 3–6–62, Cl. 162—358.
Walker, Charles W. E., to Beloit Iron Works. Stock flow distributor. 3,061,008, 10–30–62, Cl. 162—338.
Walker, Clifford R.: *See*—
Hayner, Paul F., Thompson, Walker, Pfeifer, Campman, and Boothroyd. 3,026,638.
Walker, Clifford R., and A. F. Goldsby, to Sanders Associates, Inc. Soldering apparatus and method of soldering electrical conductors. 3,058,441, 10–16–62, Cl. 113—126.
Walker, David D.: *See*—
Benjamin, Milton L., and Walker. 3,035,461.
Benjamin, Milton L., and Walker. 3,064,985.
Garrison, Ralph P. and J. O., and Walker. 3,041,079.
Walker, Delos A.: *See*—
Kowalik, John J., and Walker. 3,046,721.
Walker, Donald C., and M. D. Gambril, to Standard Oil Co. Semi-micro melting point system. 3,053,074. 9–11–62, Cl. 73—17.
Walker, Donald E.: *See*—
Angus, Ernest T., and Walker. 3,039,040.
Good, Richard S. J., Walker, and Williamson. 3,051,-140.
Molsberry, Mahlon V., Wefel, and Walker. 3.044.440.
Walker, Donald J., and R. H. Leonard, to The Western Union Telegraph Co. System for detecting errors in telegraph transmission. 3,038,961, 6–12–62, Cl. 178—23.
Walker, Edward J., and P. Christiansen, to Westinghouse Electric Corp. Electrical control apparatus. 3,040,234, 6–19–62, Cl. 321—19.
Walker, Ernest R., ½ to P. J. Walker. Device for making novelties from serpentine tape or the like. 3,028,112, 4–3–62, Cl. 242—55.54.
Walker, Frank M. Pump in absorption refrigeration machine. 3,015,221, 1–2–62, Cl. 62—487.
Walker, Frederick: *See*—
North, Albert M., and Walker. 3,067,191.
Walker, George B., and J. T. Hyman, to United Kingdom Atomic Energy Authority. Microwave propagating structures. 3,028,565, 4–3–62, Cl. 333—95.
Walker, Gordon N., to Ciba Corp. Bis-(1-piperidino) alkanes. 3,055,902, 9–25–62, Cl. 260—293.
Walker, Hans I.: *See*—
Haerther, Lester W., and Walker. 3,019,532.
Rhodes, Melvin H., and Walker. 3,041,607.
Walker, Harold R., to United States of America, Navy. Liquid oxygen cooler for airborne infrared cells. 3,016,716, 1–16–62, Cl. 62—52.
Walker, Harold R., to United States of America, Navy. Electrostatic vidicon. 3,040,205, 6–19–62, Cl. 315—10.
Walker, Harry H. Buoyant pressure vessels for gases. 3,016,-866, 1–16–62, Cl. 114—74.
Walker, Harry H., and J. A. Christensen. System for measuring and increasing flow through pipelines. 3,057,758, 10–9–62, Cl. 134—8.
Walker, Harry M., to Monsanto Chemical Co. Drilling fluid. 3,032,498, 5–1–62, Cl. 252—8.5.
Walker, Howard L.: *See*—
Perrozzi, Joseph R., Swanson, Walker, and Cheng. 3,038,803.
Walker, Howard M., to Northrop Corp. Deceleration gear. 3,029,049, 4–10–62, Cl. 244—110.
Walker, Hugh O., Jr., to Texaco Inc. Method and apparatus for photographing oscilloscopic sweep magnified signals. 3,025,125, 3–13–62, Cl. 346—110.
Walker, Hugh O., Jr., F. Press, and B. D. Lee, to Texaco Inc. Seismic model method and apparatus. 3,047,965, 8–7–62, Cl. 73—10.
Walker, Irwin V., ½ to Gadget-of-The-Month Club. Emergency chock braking apparatus for a wheeled vehicle. 3,042,151, 7–3–62, Cl. 188—4.
Walker, J. A., & Co. Pty. Ltd.: *See*—
Walker, John A. 3,028,630.
Walker, James D., to Walker Process Equipment, Inc. Air-activated carbonation. 3,048,164, 8–7–62, Cl. 126—360.
Walker, James D., and A. W. Nelson, to Walker Process Equipment, Inc. Airlift pumps with valving baffles. 3,028,816, 4–10–62, Cl. 10*5*—232.
Walker, James H.: *See*—
Ferm, Richard L., and Walker. 3,055,951.

Walker, Jay P., and C. O. Glasgow, to National Tank Co. Methods and means for separating liquids from petroleum streams and metering the separated liquids. 3,021,709, 2–20–62, Cl. 73—200.

Walker, Jay P., and C. O. Glasgow, to National Tank Co. Method and means for treatment of oil well production. 3,043,072. 7–10–62. Cl. 55—45.

Walker, John A., to J. A. Walker & Co. Pty. Ltd. Die apparatus and method for moulding flexible tubes. 3,028,630, 4–10–62, Cl. 18—12.

Walker, John M., Jr., ¼ to H. J. Frost, ¼ to J. L. Murphy, and ¼ to E. L. Deramee, Jr. Locking device for oil well drill rods or pipes. 3,019,502, 2–6–62, Cl. 24—263.

Walker, John R., to Cable Belt Ltd. Conveyor belts. 3,059,-758, 10–23–62, Cl. 193—201.

Walker, John U.: *See*—
Evans, Norman R. 3,058,103.

Walker, Kenneth B. Infants' wear. 3,056,405, 10–2–62, Cl. 128—287.

Walker Mfg. Co.: *See*—
Arnes, Lyle L., and Zimmerman. 3,062,500.
Farrey, Harold W. 3,043,436.
May, Claude H. 3,058,453.
May, Claude H. 3,060,912.
May, Claude H. 3,060,913.
May, Claude H., and Rhodes. 3,055,593.
McKenzie, William G. 3,051,263.
McKenzie, William G. 3,068,959.
Powers, Walter H. 3,036,654.
Powers, Walter H. 3,036,655.

Walker Mfg. Co. of Wisconsin: *See*—
Powers, Walter H., and Jacokes. 3,064,336.

Walker, Matilda: *See*—
Brown, Lawrence W., H. D., and P. E. 3,068,792.

Walker, Merle H., N. M. Reed, and R. T. Catlin, to Remington Arms Co. Powder actuated tool. 3,054,110, 9–18–62, Cl. 1—44.5.

Walker, Nelson L.: *See*—
Helda, Robert W., Lehner, and Walker. 3,015,881.

Walker, Ola D.: *See*—
McPherson, David M., and Walker. 3,048,440.

Walker, Ora C. Jumper walker. 3,049,350, 8–14–62, Cl. 272—33.

Walker, Percy G., and J. D. Brown; said Brown, assor. to W. R. Grace & Co. Bottle cap. 3,035,730, 5–22–62, Cl. 215—37.

Walker, Peter M., to The General Electric Co, Ltd. Electric circuits for generating an output voltage which is approximately proportional to a function of an input voltage. 3,064,898, 11–20–62, Cl. 235—197.

Walker, Phelps A., to The Parker Pen Co. Universal ball point cartridges. 3,039,437, 6–19–62, Cl. 120—42.4.

Walker, Phillip J.: *See*—
Walker, Ernest R. 3,028,112.

Walker Process Equipment, Inc.: *See*—
Walker, James D. 3,048,164.
Walker, James D., and Nelson. 3,028,816.

Walker, Raymond, to General Motors Corp. Transmission control. 3,034,373, 5–15–62, Cl. 74—472.

Walker, Raymond W.: *See*—
Siracusa, Dante A., and Walker. 3,050,131.

Walker, Richard K., to McGraw-Edison Co. Successively depressible alternating switch. 3,047,698, 7–31–62, Cl. 200—153.

Walker, Richard L., to E. I. du Pont de Nemours and Co. Manufacture of anthrimides and anthraquinonylaminobenzanthrones. 3,040,063, 6–19–62, Cl. 260—364.

Walker, Robert M., A. G. Anderson, and D. E. Rosenheim, to International Business Machines Corp. Very high frequency computing circuit. 3,018,958, 1–30–62, Cl. 235—164.

Walker, Robert M., and E. S. Schlig, to International Business Machines Corp. Cryogenic device. 3,020,489, 2–6–62, Cl. 330—5.

Walker, Roger E., to General Electric Co. Actuating device for spring clutch mechanism. 3,034,624, 5–15–62, Cl. 192—81.

Walker, Stephen A. Self-locking electrical plug and socket. 3,039,073, 6–12–62, Cl. 339—95.

Walker, Thomas: *See*—
Evans, Ronald M., Elks, Hems, Arthur, Oughton, Gregory, Walker, and Hunt. 3,040,034.

Walker, Thomas, Ltd.: *See*—
Wood, Herbert H. 3,041,698.

Walker, Thomas R. Cleaning device. 3,034,168, 5–15–62, Cl. 15—511.

Walker, Uel T. Fishhook and leader holder. 3,033,487, 5–8–62, Cl. 242—85.1.

Walker, Watson F., and C. H. Reynolds, to General Dynamics Corp. Linear delay device. 3,035,184, 5–15–62, Cl. 307—88.5.

Walker, Wayne A., to Halliburton Co. Oil well cement compositions. 3,053,673, 9–11–62, Cl. 106—90.

Walker, William F.: *See*—
Grillo, Salvatore J., and Walker. 3,039,363.
Hankison, Lewis E., and Walker. 3,063,259.

Walker, William F., to Sun Oil Co. Automatic oil transfer system. 3,031,105, 4–24–62, Cl. 222—67.

Walker, William F., and G. A. Sedar, to Hankison Corp. Vapor condenser. 3,040,500, 6–26–62, Cl. 55—269.

Walker, William N., to Radiant Ceilings, Inc. Means for controlling radiant heat loss or gain. 3,048,375, 8–7–62, Cl. 257—296.

Walker, William R.: *See*—
Edgecombe, David A., Walker, and Church. 3,061,093.

Walker, Willie C. Device for testing a spark ignition system. 3,044,011. 7–10–62, Cl. 324—15.

Walkley, Bernard O.: *See*—
Bayly, Charles, and Walkley. 3,044,256.

Walko, John A.: *See*—
Nemecek, Ralph E., and Walko. 3,064,751.

Walkup, Lewis E.: *See*—
Byrne, John F., and Walkup. 3,057,719.

Walkup, Lewis E., to Xerox Corp. Electrostatic printing apparatus. 3,043,217. 7–10–62, Cl. 101—212.

Walkup, Lewis E., and J. F. Byrne, to Xerox Corp. Image keeping. 3,057,275, 10–9–62, Cl. 95—1.7.

Wall, Alexander C.: *See*—
Holloway, Robert L., and Wall. 3,067,620.

Wall, Byron T. Device for watering and feeding plants, flowers and the like. 3,069,807, 12–25–62, Cl. 47—38.

Wall, Howard, Ltd.: *See*—
Phelan, Terence K. 3,063,929.

Wall, James L., to Controls for Radiation, Inc. Radiation detection apparatus. 3,041,457, 6–26–62, Cl. 250—83.3.

Wall, James R.: *See*—
Harris, Edward P., and Wall. 3,070,427.

Wall, James R., and E. P. Harris, to General Motors Corp. Seat structure. 3,049,730. 8–21–62, Cl. 5—351.

Wall, Joseph O. Flexible container with opening and supporting means therefor. 3,053,433, 9–11–62, Cl. 229—53.

Wall, Joseph P.: *See*—
Stehman, Harold E., and Wall. 3,041,084.

Wall, Leo A.: *See*—
Pummer, Walter J., and Wall. 3,046,313.

Wall, Leo A., and W. J. Pummer, to United States of America, Navy. Pyrolysis of mixtures containing tribromofluoromethane. 3,033,905, 5–8–62, Cl. 260—650.

Wall, Malcolm E.: *See*—
De Vries, Arthur D., and Wall. 3,040,111.

Wall, Monroe E., S. Serota, and H. E. Kenney, to United States of America, Agriculture. 16,24-cyclo-21-norcholene derivatives. 3,062,850. 11–6–62, Cl. 260—397.45.

Wall Rope Works, Inc.: *See*—
Gaston, Dexter W. 3,016,682.
Gaston, Dexter W. 3,055,167.

Wall, Thomas H., to Minnesota Mining and Mfg. Co. Adhesive bandage package unit. 3,018,881, 1–30–62, Cl. 206—56.

Wall, Thomas H., to Minnesota Mining and Mfg. Co. Packaged folded adhesive sheets. 3,025,957, 3–20–62, Cl. 206—63.2.

Wall, Tom D., Jr. Stand-off for boarding ladder. 3,056,466, 10–2–62, Cl. 182—214.

Wall, Wendell I., C. C. Cowley, and D. A. Hamilton, to Don Baxter, Inc. Hypodermic syringe. 3,050,059, 8–21–62, Cl. 128—218.

Wallace, Allan B. Split reel. 3,041,005, 6–26–62, Cl. 242—116.

Wallace, Edward M. Shears. 3,039,190, 6–19–62, Cl. 30—246.

Wallace, Elmer M., to Lamb Rental Tools, Inc. Tongs. 3,023,651, 3–6–62, Cl. 81—57.

Wallace, Frank H.: *See*—
Beem, Donald W., and Wallace. 3,020,011.

Wallace, Fred H., to North American Aviation, Inc. Ejection seat for aircraft. 3,027,126, 3–27–62, Cl. 244—141.

Wallace, Frederick J., to American Cystoscope Makers, Inc. Inflatable balloon catheter. 3,045,677, 7–24–62, Cl. 128—349.

Wallace, George A., to Globe Hoist Co. Automatic jack for a vehicle hoist. 3,048,238, 8–7–62, Cl. 187—8.74.

Wallace, George A. Automotive vehicle wheel. 3,058,508, 10–16–62, Cl. 152—5.

Wallace, George W. Methods and means for simultaneously cleaning and drying finely divided mineral matter such as coal like. 3,027,652, 4–3–62, Cl. 34—17.

Wallace, James R. Liquid collecting vacuum cleaner. 3,034,-273. 5–15–62, Cl. 55—318.

Wallace, James W.: *See*—
Murray, Charles H., and Wallace. 3,033,166.

Wallace, John W.: *See*—
Swasey, Samuel E., Wallace, and Stacey. 3,063,130.

Wallace, John W., to Westinghouse Electric Corp. Motor control servosystem. 3,069,605, 12–18–62, Cl. 318—28.

Wallace, John W., and R. E. Hull, to Westinghouse Electric Corp. Strip thickness control apparatus. 3,045,517, 7–24–62, Cl. 80—56.

Wallace, John W., R. E. Hull, and R. W. Moore, to Westinghouse Electric Corp. Automatic strip thickness control apparatus. 3,049,036, 8–14–62, Cl. 80—32.

Wallace, Joseph M. Overheat warning assembly. 3,049,580, 8–14–62, Cl. 174—59.

Wallace, Lawrence A. Tool holder. 3,023,649, 3–6–62, Cl. 81—1.

Wallace, Le Roy W. Automatic spinning reel. 3,032,290, 5–1–62, Cl. 242—84.21.

Wallace, McClelland: *See*—
Gilreath, Lafayette E. 3,048,998.

Wallace, Richard B., to The Oakland Corp. Apparatus for restoring damaged threads. 3,025,540, 3–20–62, Cl. 10—1.

Wallace, Richard B., and R. J. Ebbert, to The Oakland Corp. Method of making threaded fasteners with locking insert therein. 3,020,570, 2–13–62, Cl. 10—10.

Wallace, Richard R.: *See*—
Grunwald, Robert, Wallace, and Bowen. 3,019,464.
Wallace, Robert B.: *See*—
Hameister, Harold L., Wallace, and Smith. 3,061,064.
Wallace, Robert G.: *See*—
Cottle, John E., and Wallace. 3,026,314.
Wallace, Robert G., to Phillips Petroleum Co. Flash concentration of solutions containing polyolefins. 3,036,057, 5–22–62, Cl. 260—94.9.
Wallace, Robert G., to Phillips Petroleum Co. Recovery of 1-olefin polymers by precipitation. 3,056,772, 10–2–62, Cl. 260—94.9.
Wallace, Robert L., Jr.: *See*—
Dacey, George C., and Wallace. 3,063,023.
Kammerer, Fred W., Riesz, and Wallace. 3,015,738.
Tanenbaum, Morris, and Wallace. 3,022,472.
Wallace, Robert L., Jr., to Bell Telephone Laboratories, Inc. Negative resistance diode building block for logic circuitry. 3,062,971, 11–6–62, Cl. 307—88.5.
Wallace, Robert M.: *See*—
Migneault, Romuald and F. W., and Wallace. 3,060,525.
Wallace, Robert T., to Owens-Illinois Glass Co. Receptacle having protective coating. 3,037,652, 6–5–62, Cl. 215—13.
Wallace, Robert T., to Owens-Illinois Glass Co. Method of producing packaging material. 3,061,475, 10–30–62, Cl. 117—155.
Wallace, Rudolf N., to United Aircraft Corp. Plug valve. 3,030,065, 4–17–62, Cl. 251—160.
Wallack, Stanley: *See*—
Lieb, Harry C., and Wallack. 3,069,571.
Wallace Supplies Mfg. Co.: *See*—
De Witt, Edward J. 3,057,240.
De Witt, Edward J. 3,062,567.
Wallace & Tiernan Inc.: *See*—
Becker, Bernard A. 3,060,090.
Harrison, James B., and Mageli. 3,029,206.
Hays, Edwin E. 3,035,979.
Hays, Edwin E., and Michelson. 3,051,623.
Mehr, Louis. 3,017,406.
Mierswa, Richard D. 3,035,984.
Prince, Herbert N., Reisner, and Scudi. 3,070,498.
Reisner, David B., and Scudi. 3,021,333.
Wallace, William P., to The American Waterlock Corp. Rug shampooing machine. 3,024,484, 3–13–62, Cl. 15—50.
Wallace, William P., to The American Waterlock Corp. Rug shampooing machine. 3,041,644, 7–3–62, Cl. 15—50.
Wallace, William T., to Bausch & Lomb Inc. Workpiece dipping machine. 3,020,877, 2–13–62, Cl. 118—11.
Wallace, William T., to Bausch & Lomb Inc. Work piece holder. 3,020,880, 2–13–62, Cl. 118—503.
Wallach, Charles D. Record album storage cabinet and album envelope therefor. 3,052,507, 9–4–62, Cl. 312—12.
Wallach, George. Rocket engines. 3,021,671, 2–20–62, Cl. 60—35.6.
Wallays, Jean C., to Industrie-Gesellschaft fur Schappe. Method of manufacturing a highly elastic yarn ply. 3,069,-838, 12–25–62, Cl. 57—157.
Wallen, Alphonse R., to Dearborn Chemical Co. Composition for anti-corrosion coating and method of preparing same. 3,019,118, 1–30–62, Cl. 106—125.
Wallen, Emil O. L., to Grubbens & Co. Aktiebolag. Pulpers. 3,035,781, 5–22–62, Cl. 241—46.
Wallen, Frank S., to Superior Sleeprite Corp. Adjustable bed. 3,015,113, 1–2–62, Cl. 5—63.
Wallenfels, Kurt A. W., and W. J. Draber, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Brüning. Tetrafluoro-benzoquinone-1,4 and a process for its manufacture. 3,043,884, 7–10–62, Cl. 260—623.
Wallenfels, Kurt A. W., and W. J. Draber, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Brüning. Tetrahalobalimido and tetramino quinones. 3,051,725, 8–28–62, Cl. 260—326.
Wallenstein & Spangenberg: *See*—
Frison, David C. 3,024,950.
Wallenstrom, Henry A.: *See*—
Stegink, Aaron J., and Wallenstrom. 3,015,977.
Waller, Arthur, to Bulldog Lock Co. Fixture mounting means and method. 3,031,139, 4–24–62, Cl. 248—28.
Waller, Herbert H.: *See*—
Hansel, Paul G., and Waller. 3,050,727.
Waller, Herbert H., to Servo Corp. of America. Variable frequency generator control circuit. 3,023,370, 2–27–62, Cl. 331—11.
Waller, Herbert H., to Servo Corp. of America. Gated integrating circuit. 3,055,002, 9–18–62, Cl. 343—113.
Waller, Herbert H., to Servo Corp. of America. Retrace signal eliminator. 3,061,671, 10–30–62, Cl. 178—7.1.
Waller, Herbert H., to Servo Corp. of America. Monostable multivibrator with emitter follower in feedback path for rapid discharging of isolated timing capacitor. 3,067,342, 12–4–62, Cl. 307—88.5.
Waller, John G.: *See*—
Miller, Samuel A., and Waller. 3,059,033.
Waller, Lyle G., to National Union Electric Corp. Impact switch. 3,031,545, 4–24–62, Cl. 200—61.45.
Waller, Milton M., to Nuclear Corp. of America. Thermoelectric system. 3,064,440, 11–20–62, Cl. 62—3.
Waller, Milton M., and N. Sclar, to Nuclear Corp. of America. Blown fuse indicator. 3,041,427, 6–26–62, Cl. 200—121.
Waller, Percy H.: *See*—
Van Moss, John H., Jr., and Waller. 3,049,265.
Van Moss, John H., Jr., and Waller. 3,058,709.
Waller, Percy H., to Starwood Industries, Inc. Railroad boxcar loading mechanism. 3,038,417, 6–12–62, Cl. 105—369.
Waller, Richard C., and M. C. Shaffer, to The Goodyear Tire & Rubber Co. Coating synthetic resin film with copolyester resin ink. 3,034,920, 5–15–62, Cl. 117—38.
Waller, Tom W.: *See*—
Brown, William D., and Waller. Re. 25,138.
Wallerstein, Lawrence B. Apparatus for shaping and cutting plastic materials. 3,018,555, 1–23–62, Cl. 219—19.
Wallerstein, Leon, Jr.: *See*—
Arnold, Gerald A., and Wallerstein. 3,034,597.
Walles, Wilhelm E.: *See*—
Tousignant, William F., and Walles. 3,033,830.
Tousignant, William F., Walles, and Houtman. 3,030,-339.
Walles, Wilhelm E., to The Dow Chemical Co. Microbicidal molecular complexes of chlorine and N-alkyl or N-alkylene cyclic carbamates. 3,065,130, 11–20–62, Cl. 167—33.
Walles, Wilhelm E., and W. F. Tousignant, to The Dow Chemical Co. Applicating solutions of poly-n-vinyl-5-methyl-2-oxazolidinone in aqueous glycol ether solvents. 3,054,764, 9–18–62, Cl. 260—29.6.
Walles, Wilhelm E., W. F. Tousignant, and L. C. Cloninger, to The Dow Chemical Co. Composition and method for washing textiles. 3,067,143, 12–4–62, Cl. 252—117.
Walley, Gerald D.: *See*—
Sharples, Geoffrey F., and Walley. 3,058,702.
Wallgren, August G. F. Radial bearing of the sliding block type. 3,053,587, 9–11–62, Cl. 308—73.
Walli, Ernst. Transparent building element. 3,059,537, 10–23–62, Cl. 88—58.
Wallick, Hyman, to Merck & Co., Inc. Antibiotic and process of producing the same. 3,049,534, 8–14–62, Cl. 260—210.
Wallin, Robert E., and A. W. Blanshine, to Sperry Rand Corp. Sharpening attachment. 3,059,383, 10–23–62, Cl. 51—246.
Wallin, Sven, to Svenska Flaktfabriken, Aktiebolaget. Drying grate for granular materials. 3,060,589, 10–30–62, Cl. 34—13.
Walling, Cheves T., F. Brown, and K. W. Bartz, to Celanese Corp. of America. Copolymers. 3,027,352, 3–27–62, Cl. 260—67.
Walling, Orville D., and B. B. Thigpen, to Western Geophysical Co. of America. Variable density oscillographic recording apparatus. 3,034,127, 5–8–62, Cl. 346—109.
Walling, William R. Loom harness lifter equalizing construction. 3,068,907, 12–18–62, Cl. 139—30.
Wallingford Steel Co., The: *See*—
Anderson, Poul. 3,040,944.
Wallingford, Vernon H., to Mallinckrodt Chemical Works. Dibasic acids and salts thereof. 3,023,232, 2–27–62, Cl. 260—513.
Wallingford, Vernon H., to Mallinckrodt Chemical Works, N-(2,4,6-triiodophenyl) aceturic acid and sodium salt. 3,048,626, 8–7–62, Cl. 260—518.
Wallis, Barnes N., to Vickers-Armstrongs (Aircraft) Ltd. Engine mounting for swept-wing aeroplanes. 3,047,255, 7–31–62, Cl. 244—55.
Wallis, John F., to Ethyl Corp. Blending control apparatus. 3,066,692, 12–4–62, Cl. 137—408.
Walliser, Gustav: *See*—
Dupuy, Andre, and Walliser. 3,049,713.
Wallman, Knut O. L. Elastic coupling particularly for oil burners. 3,038,323, 6–12–62, Cl. 64—27.
Wallmark, John T.: *See*—
Marcus, Sanford M., and Wallmark. 3,070,711.
Wallmark, John T., to Radio Corp. of America. Photoelectric apparatus. 3,028,500, 4–3–62, Cl. 250—211.
Wallmark, John T., and H. Johnson, to Radio Corp. of America. Shift-register utilizing unitary multielectrode semiconductor device. 3,038,085, 6–5–62, Cl. 307—88.5.
Wallner, Lloyd H.: *See*—
Wentworth, Clinton H., and Wallner. 3,044,921.
Walls, Eugene H. Hair trimmer guide. 3,055,376, 9–25–62, Cl. 132—15.
Walls, James E. Adjustable supporting device. 3,022,032, 2–20–62, Cl. 248—205.
Walls, Paul A.: *See*—
Caldwell, Albert G., and Walls. 3,041,341.
Wallshein, Melvin. Orthodontic brackets. 3,043,006, 7–10–62, Cl. 32—14.
Wallshein, Melvin. Orthodontic brackets. 3,043,007, 7–10–62, Cl. 32—14.
Wallshein, Melvin. Clamping devices for attachment to a wire or cable. 3,052,004, 9–4–62, Cl. 24—129.
Wallshein, Melvin. Orthodontic appliances. 3,052,027, 9–4–62, Cl. 32—14.
Wallshein, Melvin. Orthodontic brackets. 3,052,028, 9–4–62, Cl. 32—14.
Wallshein, Melvin. Automatic teeth separators. 3,052,029, 9–4–62, Cl. 32—14.
Wallshein, Melvin. Orthodontic arch wire construction and method. 3,052,081, 9–4–62, Cl. 57—139.
Wally, Joseph H., Jr., and L. J. Grunwald, to Micro-Master, Inc. Camera support and subject holder. 3,062,093, 11–6–62, Cl. 88—24.
Walmsley, James L., to Bethlehem Steel Co. Beam bending machine. 3,017,915, 1–23–62, Cl. 153—33.
Walsche, Kenneth L. Safety device for supporting an infant. 3,045,258, 7–24–62, Cl. 5—317.
Walsco Co.: *See*—
Sittel, Karl. 3,017,982.
Walsh, Arthur G.: *See*—
Eng, Albert, Hnilicka, Light, and Walsh. 3,040,702.

Walsh, Arthur G., to National Research Corp. Apparatus and process for coating. 3,019,129, 1–30–62, Cl. 117—101.
Walsh, Arthur S., and K. B. Whiting, to The General Electric Co. Ltd. Electromagnetic wave switching systems. 3,058,071, 10–9–62, Cl. 333—11.
Walsh, Bruce R., to Gulf Research & Development Co. Recirculating combustion apparatus. 3,051,226, 8–28–62, Cl. 158—1.
Walsh, Donald K.: *See*—
Walsh, Gregory F., Seilhan, and D. K. Walsh. 3,029,586.
Walsh, Edward G.: *See*—
Margolis, David P., and Walsh. 3,050,843.
Walsh, Edward N.: *See*—
Fearing, Ralph B., and Walsh. 3,060,083.
Fearing, Ralph B., Walsh, and Brady. 3,020,198.
Price, Glenn R., Walsh, and Hallett. 3,070,493.
Walsh, Edward N., to Victor Chemical Works. Preparation of dialkyl phosphites. 3,036,109, 5–22–62, Cl. 260—461.
Walsh, Edward N., and J. G. Brady, to Stauffer Chemical Co. S-O,O-dialkylphosphorothiomethyl-S'-alkylthiocarbonates and their methods of preparation and use as pesticides. 3,034,951, 5–15–62, Cl. 167—22.
Walsh, Francis J., and C. J. McGraw, to The Cal-Dak Co. Furniture leg assembly. 3,052,058, 9–4–62, Cl. 45—137.
Walsh, Francis W., to International Business Machines Corp. Sheet stringing apparatus. 3,056,321, 10–2–62, Cl. 83—110.
Walsh, Gregory F., L. L. Seilhan, and D. K. Walsh, to AMP Inc. Method and machine for wrapping helically split tubing. 3,029,586, 4–17–62, Cl. 57—3.
Walsh, Henry J.: *See*—
Abbott, Henry H., Martin, Olsen, Previte, and H. J. and J. G. Walsh. 3,037,087.
Walsh, James L.: *See*—
Logue, Joseph C., and Walsh. 3,028,506.
Walsh, James L., to International Business Machines Corp. Logic circuit having speed enhancement coupling. 3,050,641, 8–21–62, Cl. 307—88.5.
Walsh, James L., and P. M. Marino, to International Business Machines Corp. Pulse generators. 3,026,487, 3–20–62, Cl. 331—116.
Walsh, James P., and R. Patton. Tray. 3,061,390, 10–30–62, Cl. 311—17.
Walsh, John C., W. M. Haselton, E. T. Holland, Jr., and K. P. Juhl, to Cherry-Burrell Corp. Article carrier for overhead conveyor. 3,051,096, 8–28–62, Cl. 104—167.
Walsh, John G.: *See*—
Abbott, Henry H., Martin, Olsen, Previte, and H. J. and J. G. Walsh. 3,037,087.
Arganbright, Jess G., and Walsh. 3,041,854.
Walsh, John W.: *See*—
Geerts, Marcellus J., Walsh, and Folkins. 3,070,639.
Walsh, Raymond A.: *See*—
Long, Carl O. 3,018,588.
Walsh, Robert J.: *See*—
Herbert, Harold W., and Walsh. 3,070,724.
Walsh, Robert R.: *See*—
Vernon, Harcourt C., and Walsh. 3,058,093.
Walshauser, Joseph J. Applicator device. 3,032,803, 5–8–62, Cl. 15—578.
Walstrom Products, Inc.: *See*—
Hollerith, Charles J. 3,034,156.
Walstrom, Stanley R.: *See*—
Wolfe, Walter W., Walstrom, and Nash. 3,034,237.
Walt, John P., to Harbison-Walker Refractories Co. Furnace block with hanger socket. 3,068,813, 12–18–62, Cl. 110—99.
Walter, Andrew T.: *See*—
Carey, Robert J., and Walter. 3,019,077.
La Combe, Edward M., and Walter. 3,053,806.
Lynn, John W., and Walter. 3,053,870.
Roberts, John S., and Walter. 3,048,467.
Walter, Carl W.: *See*—
Poitras, Edward J., and Walter. 3,047,177.
Poitras, Edward J., and Walter. 3,047,178.
Walter, Carl W. to Fenwal Inc. Apparatus for collecting, storing, and dispensing whole blood. Re. 25,129, 2–27–62, Cl. 128—214.
Walter, Carl W. Blood administering apparatus. Re. 25,171, 5–15–62, Cl. 128—214.
Walter, Charles T., to Continental Can Co., Inc. Flame curing machine for can bodies. 3,050,297, 8–21–62, Cl. 263—8.
Walter, Hellmuth, to Worthington Corp. Hydrodynamic-hydrostatic transmission. 3,054,264, 9–18–62, Cl. 60—53.
Walter, Henry C.: *See*—
Putnam, Robert E., and Walter. 3,032,536.
Walter, Henry C., to E. I. du Pont de Nemours and Co. Anionic polymerization of thiocarbonyl difluoride. 3,032,537, 5–1–62, Cl. 260—79.
Walter, Henry J., to Viewlex, Inc. Slide guide means for projectors. 3,035,483, 5–22–62, Cl. 88—26.
Walter, Henry J., to Viewlex, Inc. Film takeup means. 3,039,710, 6–19–62, Cl. 242—55.11.
Walter, John L., and H. C. Fiedler, to General Electric Co. Alloy bodies having improved magnetic properties and process for producing same. 3,034,935, 5–15–62, Cl. 148—31.55.
Walter, John M., to The G. A. Gray Co. Table driving mechanism for machine tools. 3,031,896, 5–1–62, Cl. 74—410.
Walter, John M., and G. E. Marx, to The G. A. Gray Co. Double action cutting tool. 3,040,632, 6–26–62, Cl. 90—53.
Walter, Joseph H., to Emhart Mfg. Co. Grid. 3,057,136, 10–9–62, Cl. 53—262.
Walter, Leland C. Tube splitting tool. 3,043,004, 7–10–62, Cl. 30—91.
Walter, Lewis A. Process for the preparation of D- and L-aryl-(2-pyridyl)-amino alkanes. 3,030,371, 4–17–62, Cl. 260—296.
Walter, Lewis A., to Schering Corp. Antihistamine composition and method. 3,061,517, 10–30–62, Cl. 167—65.
Walter Mfg. Co.: *See*—
May, Claude H. 3,066,661.
May, Claude H., and Rhodes. 3,066,662.
Seils, Edward C., Jr. 3,066,803.
Walter, Martin, Ltd.: *See*—
Carte, Cecil H. W. 3,019,455.
Walter, Ned F., R. M. Waters, and J. M. Lee, to The Dow Chemical Co. Fuel composition. 3,033,666, 5–8–62, Cl. 44—77.
Walter, Oscar, and H. W. Steeves, to Sperry Rand Corp. Mechanical interlock device. 3,021,935, 2–20–62, Cl. 197—17.
Walter, Paul E.: *See*—
Burt, Harry B., and Walter. 3,036,533.
Burt, Harry B., Jr., and Walter. 3,029,750.
Walter, Ralph A.: *See*—
Roberti, Michael A., and Walter. 3,049,660.
Walter, Raymond J. Safety switch for pumping units. 3,052,771, 9–4–62, Cl. 200—52.
Walter, Richard L.: *See*—
Jepsen, Robert L., and Walter. 3,028,519.
Walter, Richard L., and D. E. Nelson, to Varian Associates. High power klystron tube apparatus. 3,054,925, 9–18–62, Cl. 315—5.48.
Walter, Richard L., and J. C. Filmer, to Varian Associates. Electron tube apparatus. 3,069,590, 12–18–62, Cl. 315—5.48.
Walter, William I.: *See*—
Wilkie, Robert C., and Walter. 3,060,058.
Walter, Willy, to C. Monforts von Hobe, trading as the firm A. Monforts. Apparatus for the continuous treatment of elongated goods, more particularly textiles in a vapor chamber. 3,060,711, 10–30–62, Cl. 68—5.
Waltermire, William G., to The Lamson & Sessions Co. Knurled bearing bolt. 3,047,036, 7–31–62, Cl. 151—41.73.
Walters, Arthur J.: *See*—
Martin, John W., and Walters. 3,069,845.
Walters, Edgar H., and W. N. Ulery. Rocket toy balloon. 3,025,635, 3–20–62, Cl. 46—89.
Walters, Evan C.: *See*—
Clemens, Arthur E. 3,065,969.
Walters, Francis M. III, to United States of America, Navy. Radio frequency choke. 3,052,860, 9–4–62, Cl. 336—180.
Walters, Geoffrey K., to Texas Instruments Inc. Active circuit element. 3,049,686, 8–14–62, Cl. 338—32.
Walters, Glenn A.: *See*—
Gregowski, Joel H., and Walters. 3,063,422.
Walters, Glenn A., and J. B. Damonte, to Textron, Inc. Scanning sonar. 3,039,079, 6–12–62, Cl. 340—6.
Walters, Harold C.: *See*—
Alquist, Henry E., and Walters. 3,027,754.
Walters, Henry K., Jr., to Tennessee Valley Authority. Manufacture of fluid fertilizer from wet-process phosphoric acid. 3,019,099, 1–30–62, Cl. 71—34.
Walters, John C., and I. S. Lawson. Method of severing metal articles. 3,052,975, 9–11–62, Cl. 29—413.
Walters, Selah E. Brassiere frame. 3,033,205, 5–8–62, Cl. 128—469.
Walters, Max L. Electrode limb clamps. 3,067,749, 12–11–62, Cl. 128—418.
Walters, Robert R.: *See*—
Hildebrandt, Robert A., Hovey, and Walters. 3,015,758.
Walters, Roy J. Waffle back abrasive disc. 3,041,796, 7–3–62, Cl. 51—195.
Walterscheid, Bernhard: *See*—
Geisthoff, Hubert. 3,053,062.
Walterscheid, Jean, Kommanditgesellschaft: *See*—
Geisthoff, Hubert. 3,044,278.
Schröter, Kurt, and Walterscheid-Müller. 3,070,390.
Walterscheid-Müller, Bernhard: *See*—
Schröter, Kurt, and Walterscheid-Müller. 3,070,390.
Walthall, Willard M., to Hurletron Inc. Steering roll indicating and adjusting apparatus. 3,019,955, 2–6–62, Cl. 226—21.
Waltham Precision Instrument Co., Inc.: *See*—
Young, William W., and Wetmore. 3,020,770.
Walther Buromaschinen Gesellschaft m.b.H.: *See*—
Gelling, Helmut. 3,016,007.
Gelling, Helmut. 3,026,030.
Gelling, Helmut. 3,061,186.
Haberkorn, Otto. 3,026,026.
Walther, Christa: *See*—
Von Döhren, Hans H., and Walther. 3,050,386.
Walther, Daniel A., to The Dayton Steel Foundry Co. Rim clamping device. 3,039,824, 6–19–62, Cl. 301—20.
Walther, Daniel A., to The Dayton Steel Foundry Co. Rim and wheel assemblies. 3,061,377, 10–30–62, Cl. 301—13.
Walther, Gerhard: *See*—
Schaeder, Johann A., and Walther. 3,038,105.
Walther, James E., to California Research Corp. Aqueous regeneration of silica gel. 3,053,774, 9–11–62, Cl. 252—414.
Walther, Ludwig: *See*—
Jansen, Hermann, and Walther. 3,034,775.
Jansen, Hermann, and Walther. 3,051,465.

Walther, Ludwig, to Zimmermann & Jansen, G.m.b.H. Cooling means for hot blast stoves. 3,051,463, 8–28–62, Cl. 263—19.
Walther, Richard A., to Union Carbide Corp. Modified ethylene polymers. 3,055,875, 9–25–62, Cl. 260—85.3.
Walther, Roy K.: *See*—
Harlander, Leslie A., and Walther. 3,034,825.
Walther Technik Carl Kurt Walther: *See*—
Hesslenberg, Werner. 3,045,397.
Waltman, Delbert, deceased; G. W. Baker, administratrix. Boat mooring device. 3,064,615, 11–20–62, Cl. 114—230.
Waltman, Sterling A.: *See*—
Barber, Franklin A., Waltman, and Piana. 3,070,586.
Walton, Charles A., to International Business Machines Corp. Numeric multiplier system. 3,028,087, 4–3–62, Cl. 235—161.
Walton, Edward: *See*—
Spencer, Claude, and Walton. 3,049,550.
Walton, Edward, and C. Spencer, to Merck & Co., Inc. Novobiocin intermediate and process therefor. 3,049,551, 8–14–62, Cl. 260—343.2.
Walton, James P., to Case Foundation Co. Belling tools. 3,032,128, 5–1–62, Cl. 175—292.
Walton, Jean, to Cosmocord Ltd. Gramophone pickups. 3,051,494, 8–28–62, Cl. 274—23.
Walton, John: *See*—
Seymour, Douglas F., and Walton. 3,032,844.
Walton, John F.: *See*—
Reaves, John H., and Walton. 3,046,489.
Walton, John F., to Alcor, Inc. Bridge-type direct-coupled amplifier. 3,047,814, 7–31–62, Cl. 330—40.
Walton, John H. D., to Mec-Test Ltd. Electrical null transmission networks. 3,020,475, 2–6–62, Cl. 324—41.
Walton, Paul E., to R. C. Allen Business Machine, Inc. Cash register. 3,051,378, 8–28–62, Cl. 235—25.
Walton, Richard K., R. F. Sellers, and W. G. Colclough, Jr., to Union Carbide Corp. Cyanoalkyl siloxane copolymers. 3,026,278, 3–20–62, Cl. 260—18.
Walton, Richard R. Web conditioning. 3,066,046, 11–27–62, Cl. 117—111.
Walton, Thomas J.: *See*—
Hurst, Norman A., and Walton. 3,062,269.
Walts, Kenneth A.: *See*—
Abbott, William P., and Walts. 3,056,148.
Walts, Kenneth C., to Carrier Corp. Joining of tubular members. 3,064,707, 11–20–62, Cl. 153—2.
Waltz, Edward, to E. O. Bulman Mfg. Co., Inc. Cutting device. 3,051,223, 8–28–62, Cl. 156—527.
Walulik, Albert: *See*—
Hultgren, William H., Charney, and Walulik. 3,069,015.
Walwood Products: *See*—
Dunklee, Donovan M. 3,032,240.
Walworth Co.: *See*—
Goldman, Edward J. 3,033,227.
Scarborough, Collin W. 3,048,362.
Waly, Adnan: *See*—
Just, Richard, and Waly. 3,042,802.
Walz, Alfred: *See*—
Eckermann, Gunter, and Walz. 3,061,741.
Walz, Alfred H., and R. Ostreicher, Switching arrangement for the regulation of D.C. motors without losses. 3,064,-176, 11–13–62, Cl. 318—346.
Walz, Bruno, to W. Sluma. Tube or coil cleaning apparatus. 3,021,546, 2–20–62, Cl. 15—3.51.
Walz, Bruno. Traverse drapery hanger. 3,044,104, 7–17–62, Cl. 16—87.6.
Walz, Erwin, to Ulmer Presswerk Franz Zwick KG. Revolving target game. 3,066,938, 12–4–62, Cl. 273—101.
Walz, Frank C., and W. D. Oliver. Microfilm electric heaters. 3,067,310, 12–4–62, Cl. 219—19.
Wamnach, Robert G.: *See*—
Bertasiuk, Raymond H., and Wampach. 3,065,836.
Wampler, David M., to Libbey-Owens-Ford Glass Co. Sheet handling apparatus. 3,034,632, 5–15–62, Cl. 198—33.
Wampler, Elvin L.: *See*—
McRae, Dougal H., and Wampler. 3,065,066.
Wampler, Frank D., to General Motors Corp. Electrostatic painting apparatus. 3,043,521, 7–10–62, Cl. 239—223.
Wamsley, Welcome W., to E. I. du Pont de Nemours and Co. Coating apparatus employing an air knife doctor. 3,038,-441, 6–12–62, Cl. 118—63.
Wanamaker, Don E. Method of folding and sealing a bread wrapper. 3,027,263, 3–27–62, Cl. 99—172.
Wandel, Kurt. Material feeding unit. 3,062,129, 11–6–62, Cl. 100—43.
Wandel, Oscar A., to Fastener Corp. Fastener driving apparatus. 3,040,709, 6–26–62, Cl. 121—13.
Wandel, Oscar A., and R. H. Doyle, to Fastener Corp. Fastener driving apparatus. 3,043,272, 7–10–62, Cl. 121—13.
Wandel, Oscar A., and R. H. Doyle, to Fastener Corp. Fastener driving apparatus. 3,056,137, 10–2–62, Cl. 1—3.1.
Wandell, James W. Screw cap. 3,053,406, 9–11–62, Cl. 215—41.
Wander Co., The: *See*—
Boswell, Charles L. 3,048,526.
Wandrey, Clarence W., to Zenith Radio Corp. Solar timing mechanism. 3,030,462, 4–17–62, Cl. 200—38.
Wandrey, Clarence W., and H. C. Grossenheider, to Zenith Radio Corp. Tuner drive apparatus. 3,047,787, 7–31–62, Cl. 318—265.
Wanetick, Saul, to United States of America, Army. Radioactive transducer. 3,024,364, 3–6–62, Cl. 250—83.3.
Wang, An, to Wang Laboratories Inc. Digital comparator servosystem. 3,065,394, 11–20–62, Cl. 318—28.
Wang, An, and G. Y. Chu, to Wang Laboratories Inc. Machine tool control system. 3,015,806, 1–2–62, Cl. 340—147.
Wang, Arnold F.: *See*—
Southwell, Edward H., Emal, Cuhrt, and Wang. 3,029,-674.
Wang, Chih-Chung, to Clevite Corp. Method and apparatus for growing single crystals. 3,026,188, 3–20–62, Cl. 23—301.
Wang, Chih-Chung, to Clevite Corp. Sorting and etching apparatus and method. 3,035,959, 5–22–62, Cl. 156—17.
Wang, Eugene C.: *See*—
Parker, Leon, Wang, and Nordberg. 3,028,286.
Wang Laboratories Inc.: *See*—
Wang, An. 3,065,394.
Wang, An, and Chu. 3,015,806.
Wang, Orville S., to Allis-Chalmers Mfg. Co. Clamp. 3,026,-593, 3–27–62, Cl. 24—249.
Wanielista, Walter, and D. F. Keller, to Robertson Photo-Mechanix, Inc. Vacuum frame for use in making color separations. 3,028,786, 4–10–62, Cl. 88—24.
Wanielista, Walter, and C. P. Sippel, Jr., to Robertson Photo-Mechanix, Inc. Adjustable stop and release mechanism for photographic apparatus. 3,044,378, 7–17–62, Cl. 95—13.
Waninger, Gilbert: *See*—
Ulmann, Werner, and Waninger. 3,041,442.
Waninger, Gilbert, to Kabelschiepp G.m.b.H. Means for delivering power supply to travelling machine elements. 3,020,362, 2–6–62, Cl. 191—12.
Waninger, Gilbert, to Kabelschlepp G.m.b.H. Cable feeding arrangement. 3,024,325, 3–6–62, Cl. 191—12.
Waninger, Gilbert M., to Kabelschlepp G.m.b.H. Multi-polar terminal connection for electric conductors. 3,016,509, 1–9–62, Cl. 339—49.
Wank, Otto: *See*—
Klaar, Albert, and Wank. 3,055,324.
Wank, Otto, and H. Theenhausen, to Anker-Phoenix Nahmaschinen A.G. Zigzag and buttonhole sewing machine. 3,043,253, 7–10–62, Cl. 112—158.
Wankel, Felix, W. Froede, and E. Hoeppner, to NSU Motorenwerke Aktiengesellschaft and Wankel G.m.b.H. Sealing arrangement for rotary mechanism. 3,064,880, 11–20–62, Cl. 230—140.
Wankel G.m.b.H.: *See*—
Froede, Walter G., Hoppner, Paschke, and Wankel. 3,042,009.
Luck, Friedrich. 3,029,793.
Wankel Felix, Froede, and Noeppner. 3,064,880.
Wanlass, Cravens L., to Ford Motor Co. Logic system gating circuit. 3,040,410, 10–23–62, Cl. 340—174.
Wanlass, Cravens L., to Ford Motor Co. Gating circuit. 3,061,820, 10–30–62, Cl. 340—174.
Wanmaker, Willem L.: *See*—
Hoekstra, Age H., and Wanmaker. 3,060,129.
Wanmaker, Willem L., C. Bakker, and J. W. M. Arents, to North American Philips Co., Inc. Electric gas discharge lamp comprising a luminescent layer. 3,059,133, 10–16–62, Cl. 313—109.
Wanner, Bertil. Camera coupling means. 3,045,573, 7–24–62, Cl. 95—18.
Wanner, William A., and W. H. Way. Aerial cable brake. 3,057,488, 10–9–62, Cl. 188—65.1.
Wannow, Hans-Andreas: *See*—
Gruber, Günter, and Wannow. 3,058,848.
Wans, Richard D.: *See*—
Smith, Grover H., and Wans. 3,068,696.
Wansky, Morris H., R. G. Hudak, and M. P. Mitchin. Cap or hat light. 3,032,647, 5–1–62, Cl. 240—10.65.
Wantland, Edward F. Driving tool. 3,066,304, 12–4–62, Cl. 1—187.
Wanttaja, Glenn E.: *See*—
Lisiecki, Robert B., Scarpelli, and Wanttaja. 3,059,150.
Wantuck, Stephen J.: *See*—
Eastwood, Sylvander C., Oleck, and Wantuck. 3,068,169.
Oleck, Stephen M., Rosinski, and Wantuck. 3,025,248.
Wantz, Clarence, and W. S. Kunzler, to Robertshaw-Fulton Controls Co. Thermostatically controlled fluid valves. 3,062,449, 11–6–62, Cl. 236—99.
Wapiennik, Carl F.: *See*—
Bures, Joseph A., and Wapiennik. 3,032,080.
Wapner, Joseph S., to American Meter Co., Inc. Meter readout systems. 3,069,669, 12–18–62, Cl. 340—188.
Wappner, Charles L., to The Ohio Thermometer Co. Wind speed meter. 3,055,216, 9–25–62, Cl. 73—205.
Wappner, Ralph C., to The Ohio Thermometer Co. Thermometer support. 3,022,671, 2–27–62, Cl. 73—375.
Waranch, Myer. Strand dispensing and binding tool. 3,021,094, 2–13–62, Cl. 242—137.1.
Warburton-Hall, Henry, to Dracone Developments Ltd. Fabrication of flexible collapsible containers. 3,068,132, 12–11–62, Cl. 156—93.
Ward, Abraham W. Tooth cleaning and gum massaging instrumentality. 3,043,295, 7–10–62, Cl. 128—62.
Ward, Barry J., to E. I. du Pont de Nemours and Co. Yarn for novel fabrics. 3,046,724, 7–31–62, Cl. 57—140.
Ward, C. E., Co., The: *See*—
O'Reilly, Edward J. 3,018,487.
Ward, Charles H.: *See*—
Mann, Joseph K., and Ward. 3,058,026.
Ward, Charles T., R. M. Oliver, and C. R. Pandelis, to Combustion Engineering, Inc. Braze bonding of concentric tubes and shells and the like. 3,025,596, 3–20–62, Cl. 29—471.1.

Ward, Charles W. Method and apparatus for sifting. 3,045,-817, 7–24–62, Cl. 209—21.

Ward, Curtis E.: *See*—
Gardner, Bernard C., and Ward. 3,016,501.
Jepsen, Robert L., Salisbury, and Ward. 3,021,447.
Zitelli, Louis T., and Ward. 3,036,237.

Ward, David A.: *See*—
Reynolds, Harold B., and Ward. 3,026,863.

Ward, Denis S.: *See*—
White, Peter T., and Ward. 3,030,301.

Ward, Derrick A.: *See*—
Warner, Arthur R., and Ward. 3,037,145.

Ward, Donald P. Waterproof inertial type microphone. 3,064,089, 11–13–62, Cl. 179—122.

Ward, Edward G.: *See*—
Spearman, Charles K., and Ward. 3,047,254.

Ward, Elmer F., to The Task Corp. Fluid cooled electrical machine. 3,043,968, 7–10–62, Cl. 310—54.

Ward, Emmett J., and W. E. McKnight, to Westinghouse Electric Corp. Remotely controlled alarm system. 3,069,-673, 12–18–62, Cl. 340—276.

Ward, Gerald F.: *See*—
Kestell, Thomas A., and Ward. 3,062,162.

Ward, Harold E., to Shell Oil Co. Well pumping apparatus. 3,062,154, 11–6–62, Cl. 103—206.

Ward, Harold L., to Caterpillar Tractor Co. Expansion system for engine coolant. 3,068,846, 12–18–62, Cl. 123—41.1.

Ward, Henry D., Jr., to Koppers Co., Inc. Adjusting mechanism for slotting assembly. 3,067,643, 12–11–62, Cl. 83—332.

Ward, Howard L. Probing instrument and depth indicator. 3,058,225, 10–16–62, Cl. 33—172.

Ward, Hugh J., Jr., to U.S. Pallet Co., Inc. Heavy duty wooden pallet and method of manufacture. 3,059,887, 10–23–62, Cl. 248—120.

Ward Industries Corp.: *See*—
Davis, Ernest. 3,063,606.
Gayring, Wallace F. 3,051,359.
Winnewisser, Emil A. 3,027,157.

Ward, James C., to Webb City Metal Products. Vehicle suspension system of the deformable cushion type. 3,033,591, 5–8–62, Cl. 280—124.

Ward, John E.: *See*—
Jursik, James, Ward, and Shaw. 3,054,304.

Ward, John W., to Specialties, Inc. Colorimeter and color sorting apparatus. 3,060,790, 10–30–62, Cl. 88—14.

Ward, Joseph B. Floating transfer bridge. 3,069,862, 12–25–62, Cl. 61—48.

Ward Leonard Electric Co.: *See*—
Clark, Robert L., and Ehmann. 3,054,872.
Readenbaurch, Robert, Scribner, and Haven. 3,044,034.

Ward, Loyal F., Jr., and D. D. Phillips, to Shell Oil Co. Organophosphorus compounds. 3,069,313, 12–18–62, Cl. 167—30.

Ward, Milton H.: *See*—
Ward, William W. and M. H. 3,032,785.

Ward, Milton H. Minnow container and system. 3,068,607, 12–18–62, Cl. 43—56.

Ward, Nephi J. Posting register. 3,046,039, 7–24–62, Cl. 282—3.

Ward, Orville C. J., to Robert G. Evans Co. Mechanism for keeping cutting head of masonry saw in level position. 3,040,729, 6–26–62, Cl. 125—13.

Ward, Paul J., J. D. Johnson, and R. G. Robertson, to National Dairy Products Corp. Whey composition for making dough products. 3,061,442, 10–30–62, Cl. 99—91.

Ward, Paul S. Apparatus for proofing and baking bread. 3,018,742, 1–30–62, Cl. 107—55.

Ward, Paul W. Golf ball retriever. 3,029,097, 4–10–62, Cl. 294—19.

Ward, Peter A.: *See*—
Kerry, Thomas H., Ward, and Taylor. 3,059,878.

Ward, Peter A., to Rolls-Royce Ltd. Jet pipe nozzle. 3,064,-419, 11–20–62, Cl. 60—35.55.

Ward, Peter W., to The General Electric Co. Ltd. Electric switching system. 3,029,311, 4–10–62, Cl. 179—15.

Ward, Richard I. Emergency generator and vacuum producing means for airplanes. 3,069,116, 12–18–62, Cl. 244—58.

Ward, Robert C.: *See*—
Clark, Marion D., and Ward. 3,028,959.
Stolar, Morris E. 3,060,095.

Ward, Robert, to Texaco Inc. Seismic first break time count system. 3,038,144, 6–5–62, Cl. 340—15.

Ward, Robert L., to International Business Machines Corp. Arithmetic switching circuit. 3,018,961, 1–30–62, Cl. 235—176.

Ward, Samuel A., to The Machlett Laboratories, Inc. Means of converting electrical signals to visible pictures. 3,051,-781, 8–28–62, Cl. 178—7.5.

Ward, Thomas C. Decubitus pad. 3,020,910, 2–13–62, Cl. 128—132.

Ward, Walter H., to South African Farm Implement Manufacturers Ltd. Tractor-implement hitch to accommodate sidewise tilting. 3,039,540, 6–19–62, Cl. 172—449.

Ward William, IV. Fishing rod line guide attachment. 3,063,186, 11–13–62, Cl. 43—24.

Ward, William E.: *See*—
Dehn, Roy F., and Ward. 3,052,200.

Ward, William W. Exhaust power. 3,015,433, 1–2–62, Cl. 230—116.

Ward, William W. and M. H., to DuraCraft Boats, Inc. Bow construction for sheet metal boats. 3,032,785, 5–8–62, Cl. 9—6.

Ward, Woodrow W. Filter flow control. 3,034,653, 5–15–62, Cl. 210—332.

Wardell, Donald, to National Research Development Corp. Tape motion control mechanisms. 3,065,891, 11–27–62, Cl. 226—95.

Warder, Stephen G.: *See*—
Redding, Robert J., and Warder. 3,058,066.

Wardle, Isaac J. Self-loading carry-all. 3,063,173, 11–13–62, Cl. 37—126.

Wardleworth, James: *See*—
Clark, Peter F., and Wardleworth. 3,053,849.
Heslop, Robert N., Legg, Mawson, Stephen, and Wardleworth. 3,042,475.
Howard, Harold T., Slinger, and Wardleworth. 3,054,-792.
Howard, Harold T., Slinger, and Wardleworth. 3,054,-793.

Wardley, Brian J.: *See*—
Dean, Noel-Spencer, and Wardley. 3,067,781.

Ware, Ben F., to The Ajax Mfg. Co. Wire lubricating device. 3,031,068, 4–24–62, Cl. 205—19.

Ware, Cecil: *See*—
Ware, Bus, Franklin L., Sr., Cox, and Ware. 3,070,170.

Ware, Chester D., and M. L. Van Der Ploeg, to The Trane Co. Heat distributor. 3,067,818, 12–11–62, Cl. 165—176.

Ware, Gordon K., to The Chicago Roller Skate Co. Toe block structure. 3,016,246, 1–9–62, Cl. 280—11.2.

Wareham, Richard R.: *See*—
Bing, Herbert A., and Wareham. 3,015,982.

Wareham, Richard R., to Polaroid Corp. Photographic device. 3,060,821, 10–30–62, Cl. 95—10.

Wareham, Richard R., and O. E. Wolff, to Polaroid Corp. Sheet-ejecting mechanism for photographic apparatus. 3,015,175, 1–9–62, Cl. 226—58.

Wareham, William W., to General Electric Co. Reinforced synthetic enamel coating for electrical conductor. 3,028,-265, 4–3–62, Cl. 117—232.

Warehime, G. M.: *See*—
Douglas, Homer C. 3,057,517.

Warf, Bernard W., 50% to W. H. Ballard, II. Shuttle car for mines. 3,022,023, 2–20–62, Cl. 242—86.51.

Warfield, Robert W., and M. C. Petree. New curing techniques for resins. 3,049,410, 8–14–62, Cl. 23—230.

Wargo, Peter, to Stewart-Warner Corp. Speed responsive device. 3,025,369, 3–13–62, Cl. 200—61.46.

Wargotz, Bernard: *See*—
Mayor, Rowland H., Leshin, and Wargotz. 3,047,559.

Warhus, John D., to General Electric Co. Dishwashing machine. 3,064,664, 11–20–62, Cl. 134—176.

Waring, Dana B.: *See*—
Shevchenko, Richard P., and Waring. 3,025,115.

Waring, Jesse M.: *See*—
Cleland, William J., Henshall, Roper, Waring, and Seljo. 3,052,664.

Waring, John W., to Philco Corp. Television receiver employing IF amplifier with variable response characteristic. 3,025,343, 3–13–62, Cl. 178—5.8.

Waring, John W., to Philco Corp. Constant bandwidth coupling system. 3,049,682, 8–14–62, Cl. 333—70.

Waring, John W., to Philco Corp. Reflexed amplifier circuit. 3,051,904, 8–28–62, Cl. 325—486.

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Waring, Wilson S., to Imperial Chemical Industries Ltd. 2-phenylbenzamide derivatives and procedures for making same. 3,049,564, 8–14–62, Cl. 260—558.

Waritz, Richard S., to E. I. du Pont de Nemours and Co. N-alkyl-N(alkyl-mercuri)-allphatyl sulfonamides. 3,035,073, 5–15–62, Cl. 260—431.

Warkoczewski, Joseph T., to Gustin-Bacon Mfg. Co. Mold core loading device. 3,035,317, 5–22–62, Cl. 22—37.

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Warman, Bloomfield J., to Siemens Edison Swan Ltd. Magneto-strictive delay lines. 3,024,428, 3–6–62, Cl. 333—17.

Warman, Bloomfield J., to Associated Electrical Industries Ltd. Automatic telecommunication and like switching systems. 3,068,324, 12–11–62, Cl. 179—18.

Warman, Nathan W. Trap shooter's cartridge holder. 3,070,-272, 12–25–62, Cl. 224—15.

Warming, Troels: *See*—
Newcomb, Wallace K., and Warming. 3,068,707.

Warmoltz, Nicolaas: *See*—
Hermsen, Johannes, Kraaijeveld, and Warmoltz. 3,047,-760.
Opstelten Johannes J., Warmoltz, and Van Zelst. 3,066,535.
Opstelten Johannes, J., Warmoltz, and Van Zelst. 3,066,536.

Warmoltz, Nicolaas, and P. P. M. Schampers, to North American Philips Co., Inc. Ionisation chamber. 3,030,538, 4–17–62, Cl. 313—93.

Warn, Arthur M. Safety alarm signals for vehicles. 3,039,-425, 6–19–62, Cl. 116—60.
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Warn, Arthur M., and H. J. Hegar, to Warn Mfg. Co. Roller clutch means. 3,055,471, 9–25–62, Cl. 192—45.
Warn Mfg. Co.: *See*—
Warn, Arthur M., and Hegar. 3,055,471.
Warnant, Julien: *See*—
Joly, Robert, and Warnant. 3,017,409.
Joly, Robert, and Warnant. 3,037,034.
Joly, Robert, and Warnant. 3,042,707.
Joly, Robert, Warnant, and Goffinet. 3,048,582.
Joly, Robert, Warnant, and Goffinet. 3,052,696.
Joly, Robert, Warnant, and Nomine. 3,027,385.
Velluz, Leon, Goffinet, Warnant, and Amiard. 3,066,154.
Warnberg, Archie E.: *See*—
Coplin, Bernard L., and Warnberg. 3,024,021.
Warne, Eugene H., to Joseph Lucas (Industries) Ltd. Means for effecting a connection between a coiled spring and another part. 3,043,583, 7–10–62, Cl. 267—74.
Warne, Thomas P., Jr., to Radio Corp. of America. Grid-cathode assembly for cathode ray tubes. 3,026,438, 3–20–62, Cl. 313—82.
Warnecke, Robert R., to Compagnie Generale de Telegraphie Sans Fil. Travelling wave amplifier. 3,018,448, 1–23–62, Cl. 330—43.
Warnecke, Robert R., and G. Vincent, to Compagnie Generale de Telegraphie sans Fil. High-frequency utilization apparatus for ionized gas. 3,031,399, 4–24–62, Cl. 204—192.2.
Warner, Alden Y., and E. J. Sawina, to The Capewell Mfg. Co. Separable link. 3,065,513, 11–27–62, Cl. 24—265.
Warner, Amos C.: *See*—
Heller, George L., Warner, and De Land. 3,046,096.
Warner, Arthur R., and D. A. Ward. Oscillator circuits. 3,037,145, 5–29–62, Cl. 315—166.
Warner, Benjamin F., J. H. Tomkin, and D. Shaw, to United Kingdom Atomic Energy Authority. Method of converting a solution of a radioactive salt into compact solid form. 3,066,728, 12–4–62, Cl. 159—1.
Warner, Donald E., and W. E. Williams, to Audiotronics Corp. Phonograph apparatus for foreign language instruction. 3,059,347, 10–23–62, Cl. 35—35.
Warner, Donald T., to The Upjohn Co. Selective sulfation of amino alcohols and products thereof. 3,027,363, 3–27–62, Cl. 260—211.
Warner, Douglas K. Two cycle-radial, high-supercharge engines. 3,051,148, 8–28–62, Cl. 123—55.
Warner, Edgar, to Champion Papers, Inc. Method of making cast coated paper. 3,044,896, 7–17–62, Cl. 117—64.
Warner, Edward J. Radiation detector. 3,062,958, 11–6–62, Cl. 250—83.3.
Warner Electric Brake & Clutch Co.: *See*—
Leeson, James L., Jr. 3,030,554.
Leeson, James L., Jr., and Smith. 3,069,600.
Meyer, Arthur A. 3,054,480.
Modersohn, Charles W. 3,037,586.
Pierce, William C. 3,055,470.
Shoquist, Robert H. 3,040,856.
Warner, Elmer L., to The Tappan Co. Electric cooking range. 3,036,189, 5–22–62, Cl. 219—20.
Warner, Gerald L., to Raytheon Co. Reactance tube circuits. 3,017,581, 1–16–62, Cl. 331—180.
Warner, Harold J., Jr.: *See*—
Porter, Herbert C., Terkoski, and Warner. 3,064,147.
Warner-Lambert Pharmaceutical Co.: *See*—
Babson, Arthur L. 3,069,330.
Emele, Jane F. 3,063,897.
Emele, Jane F. 3,068,147.
Hubbard, Robert L. 3,047,901.
Lewis, Arnold D. 3,037,031.
Meltzer, Robert I., Stanaback, and Lutz. 3,046,306.
Ninger, Fred C. 3,028,307.
Satzinger, Gerhard. 3,064,003.
Shavel, John, Jr., and Bobowski. 3,046,279.
Shavel, John, Jr., and Bobowski. 3,048,593.
Warner, Leslie L.: *See*—
Koerner, Mark P., and Warner. 3,066,065.
Warner Mfg. Corp.: *See*—
Lipman, Leonard M., and Morris. 3,050,792.
Warner, Paul F.: *See*—
Franz, Richard D., and Warner. 3,017,320.
Franz, Richard D., and Warner. 3,051,758.
Mihm, Clifford H., Warner, and Duke. 3,022,351.
Warner, Paul F., to Phillips Petroleum Co. Polymerization of conjugated dienes. 3,030,432, 4–17–62, Cl. 260—680.
Warner, Paul F., to Phillips Petroleum Co. Process of printing on polyolefin surface and resultant article. 3,035,933, 5–22–62, Cl. 117—15.
Warner, Paul F., to Phillips Petroleum Co. Color improvement in synthesis of polysulfides. 3,038,013, 6–5–62, Cl. 260—608.
Warner, Paul F., to Phillips Petroleum Co. Heavy oil for tree spray. 3,051,614, 8–28–62, Cl. 167—22.
Warner, Paul F., to Phillips Petroleum Co. Stabilization of unstable mercaptans. 3,055,946, 9–25–62, Cl. 260—609.
Warner, Paul F., to Phillips Petroleum Co. Preparation of para-dithiane. 3,070,605, 12–25–62, Cl. 260—327.
Warner, Paul F., and R. D. Franz, to Phillips Petroleum Co. Production of polymeric mercaptans. 3,051,695, 8–28–62, Cl. 260—139.
Warner, Paul F., B. L. Archer, and R. D. Franz, to Phillips Petroleum Co. Alkyl thioether and dithioether-heavy metal cyanide addition compounds. 3,064,025, 11–13–62, Cl. 260—438.
Warner, Raymond M., Jr.: *See*—
Spector, Clarence J., and Warner. 3,062,972.
Stone, Henry A., Jr., and Warner. 3,061,739.
Warner, Raymond M., Jr., to Bell Telephone Laboratories, Inc. Temperature compensated field effect resistor. 3,056,-100, 9–25–62, Cl. 338—25.
Warner, Robert B. Bath safety handle. 3,028,604, 4–10–62, Cl. 4—185.
Warner, Robert E. Ornamental wrapped box. 3,064,876, 11–20–62, Cl. 229—43.
Warner, Samuel. Commutator fusing machine. 3,045,103, 7–17–62, Cl. 219—78.
Warner & Swasey Co., The: *See*—
Blake, Charles T., and Vetsch. 3,018,115.
Curtis, Myron S. 3,023,631.
Curtis, Myron S. 3,026,743.
Haug, Chester J., Van Deusen, and Selby. 3,042,330.
Fryzek, Lyle F., Daniel F. 3,018,010.
Tandler, William S. Grossman, and Sloan. 3,023,506.
Treer, Ross B. 3,021,740.
Van Deusen, George S. Re. 25,267.
Van Deusen, George S. 3,019,996.
Van Deusen, George S. 3,028,637.
Vetsch, Rudolf. 3,028,763.
Warnick, Alan: *See*—
Fitch, Merle E., and Warnick. 3,062,988.
Warnke, Ruben H. Lawn rake. 3,024,587, 3–13–62, Cl. 56—27.
Warnken, Elmer P., to Studebaker-Packard Corp. Swinging propeller blade. 3,047,726, 7–31–62, Cl. 290—55.
Warnock, Howard B., to The Minster Machine Co. Valve for press clutch. 3,039,440, 6–19–62, Cl. 121—38.
Warnock, Lyle F., Jr., to Minneapolis-Honeywell Regulator Co. Control apparatus. 3,018,141, 1–23–62, Cl. 308—9.
Warnock, Lyle F., Jr., to Minneapolis-Honeywell Regulator Co. Control apparatus. 3,018,142, 1–23–62, Cl. 308—9.
Warnock, Moses, ½ to J. & T. Boyd Ltd. Driving arrangement for spinning, twisting and like textile machines. 3,016,680, 1–16–62, Cl. 57—88.
Warnsdorfer, William R., J. A. Lindlof, and R. L. Hemminger, to Ansul Chemical Co. Dry chemical fire extinguishers. 3,055,435, 9–25–62, Cl. 169—31.
Warnsdorfer, Clifford J., Jr., to Johnson & Johnson. Method for indicating complete mixing of epoxy resin and amine hardener and compositions resulting therefrom. 3,030,329, 4–17–62, Cl. 260—37.
Warnsdorfer, Clifford J., Jr., W. J. Ferenczy, and J. S. Babiy, to Johnson & Johnson. Container. 3,057,536, 10–9–62, Cl. 229—42.
Warntz, Richard S., to Magor Car Corp. Tubular center sill for covered hopper and like cars. 3,040,679, 6–26–62, Cl. 105—248.
Warolin, Christian J., and P. R. Billot. Process for preparing acetylsalicylic acid anhydride. 3,026,350, 3–20–62, Cl. 260—480.
Warp, Harold, to Flex-O-Glass, Inc. Rolled sheet dispenser blank. 3,070,273, 12–25–62, Cl. 225—58.
Warren Automatic Tool Co.: *See*—
Dower, Ethell J. 3,031,891.
Dower, Ethell J. 3,049,409.
Warren Brothers Roads Co.: *See*—
Beale, Charles H. 3,052,167.
Warren, Christopher J. L., and J. W. Milross. Method for making sweets. 3,048,128, 8–7–62, Cl. 107—54.
Warren, Edwin G. Apparatus for loading and unloading poles and the like to and from trucks. 3,021,021, 2–13–62, Cl. 214—77.
Warren, George: *See*—
Sanfor, Elbert A., and Warren. 3,051,589.
Warren, George, to Bendix Ericsson U.K. Ltd. Knitting machine controllers. 3,069,881, 12–25–62, Cl. 66—154.
Warren, Harry G. to Plasmet Engineering Corp. Water sprinkler. 3,070,314, 12–25–62, Cl. 239—230.
Warren, Henry R., to Radio Corp. of America. Angled transducer heads to minimize magnetic coupling. 3,037,089, 5–29–62, Cl. 179—100.2.
Warren, Henry R., to Radio Corp. of America. Magnetic heads. 3,046,359, 7–24–62, Cl. 179—100.2.
Warren, Ian H.: *See*—
Forward, Frank A., and Warren. 3,042,486.
Warren, James R., to United States of America, Navy. Vibration damping mechanism. 3,020,006, 2–6–62, Cl. 244—75.
Warren, James V. Plant canning or potting. 3,025,636, 3–20–62, Cl. 47—37.
Warren, Jesse F., Jr. Safety trailer support. 3,020,063, 2–6–62, Cl. 280—150.5.
Warren, John M.: *See*—
Kirk, Donald R., and Warren. 3,029,910.
Warren, Judith S.: *See*—
Rubens, Louis C., and Warren. 3,033,805.

Warren, Leonard C.: *See*—
Glaser, Donald A., and Warren. 3,061,303.
Warren Mfg. Co. Inc.: *See*—
Dornhoefer, Warren J. 3,041,551.
Dornhoefer, Warren J. 3,044,046.
Dornhoefer, Warren J. 3,047,736.
Warren Pumps, Inc.: *See*—
Zalis, Albert A. 3,057,665.
Warren, Raymond W. Fluid oscillator. 3,016,066, 1–9–62, Cl. 137—624.14.
Warren, Richard F., and P. Spergel, to Industrial Nucleonics Corp. Process measurement and control. 3,024,680, 3–13–62, Cl. 80—56.
Warren, Robert A., J. J. Coleman, and M. E. Wilke, to Servel, Inc. Primary cell with slurry electrolyte-anode body. 3,056,849, 10–2–62, Cl. 136—83.
Warren, Robert E., to United States of America, Navy. Vibration damper for a shaft. 3,040,598, 6–26–62, Cl. 74—574.
Warren, S. D., Co.: *See*—
Forrester, Gilbert. 3,054,613.
Grant, Clyde P., Forrester, and Smith. 3,037,381.
Richard Leslie L. 3,020,839.
Russell, Robert B. 3,048,695.
Warren, Seymour P., to Interstate Service Corp. Underground storage cavern and method of making same. 3,068,654, 12–18–62, Cl. 61—.5.
Warren-Teed Products Co., The: *See*—
Hoff, Donald A., and Wagner. 3,041,237.
Lynch, Thomas A. 3,065,138.
Warren, Thomas B., and J. B. Harvey, to International Telephone and Telegraph Corp. Signal receiving system. 3,048,783, 8–7–62, Cl. 250—20.
Warren, Walter B., Jr.: *See*—
Robertson, Douglas W., and Warren. 3,068,426.
Warren, William J., to Shell Oil Co. Crude oil metering and recording system. 3,066,529, 12–4–62, Cl. 73—194.
Warrick, Earl L., to Dow Corning Corp. Blood oxygenator. 3,015,331, 1–2–62, Cl. 128—214.
Warrick, Edward C., R. K. Holtz, and J. Kmetz, to Rockwell Mfg. Co. Eccentrically adjustable pulley adaptor. 3,064,487, 11–20–62, Cl. 74—242.16.
Warrikhoff, Harold: *See*—
Hess, Bernhard, Hosemann, and Warrikhoff. 3,067,331.
Warring, Alfred. Precast column attaching means. 3,036,829, 5–29–62, Cl. 269—189.
Warring, Norman H. Material steamer. 3,030,711, 4–24–62, Cl. 34—73.
Warrington, Albert R. V. C., to The English Electric Co. Ltd. Three-phase protective relay system. 3,024,389, 3–6–62. Cl. 317—36.
Warrington, Albert R. van C., to The English Electric Co. Ltd. Electrical protective relay systems. 3,048,744, 8–7–62, Cl. 317—27.
Warrington, Albert R. van C., to The English Electric Co. Ltd. Power energization supply means for electrical protective relay systems. 3,048,745, 8–7–62, Cl. 317—27.
Warsaw, Arthur J. Dynamometer and power absorption device. 3,068,689, 12–18–62, Cl. 73—135.
Warshal, Morris: *See*—
Stewart, Frederick G., and Warshal. 3,041,099.
Warshaw, Abe, to Chemical Construction Corp. Vinyl acetate process. 3,031,496, 4–24–62, Cl. 260—498.
Warshaw, Abe, to Chemical Construction Corp. Stabilized hydrogen peroxide. 3,037,847, 6–5–62, Cl. 23—207.5.
Warsher, Adolph, to The Bendix Corp. Time indicator. 3,069,622, 12–18–62, Cl. 324—68.
Warson, Henry: *See*—
Mayne, John E. O., Warson, and Levine. 3,025,253.
Warthen, William P., to Owens-Corning Fiberglas Corp. Method and apparatus for producing filaments of heat-softenable materials. 3,063,094, 11–13–62, Cl. 18—8.
Wartian, George, to Wartian Lock Co. Sliding door latch. 3,040,555, 6–26–62, Cl. 70—97.
Wartian Lock Co.: *See*—
Wartian, George. 3,040,555.
Wartik, Thomas, and R. M. Rosenberg, to Koppers Co., Inc. Sub-halides of boron. 3,033,770, 5–8–62, Cl. 204—164.
Warwick, John N., to Crown Zellerbach Corp. Container and packing for fragile articles. 3,043,488, 7–10–62, Cl. 229—14.
Warwick Mfg. Corp.: *See*—
Bourget, Joseph A. 3,034,013.
Bourget, Joseph A. 3,056,064.
Bridges, Jack E. 3,047,793.
Vazzano, Philip. 3,063,664.
Wiencek, Zbigniew. 3,070,656.
Wasco, Anthony, Jr.: *See*—
Cashman, Robert W., and Wasco. 3,050,828.
Cashman, Robert W., and Wasco. 3,051,029.
Wasdell, William K. Shock absorbers or vibration dampers. 3,021,926, 2–20–62, Cl. 188—88.
Wasdell, William K. Telescopic dampers primarily for incorporation in vehicle wheel suspension systems. 3,029,903, 4–17–62, Cl. 188—96.
Wasek, Edward J. Semi-automatic dispenser and applicator. 3,034,129, 5–15–62, Cl. 1—177.
Wash, Frank: *See*—
Henry, Richard E., and Wash. 3,017,216.
Wash Overshot and Spear Engineers, Inc.: *See*—
Le Bus, Franklin L., Sr., Cox, and Ware. 3,070,170.
Washall, Thomas A., to The Atlantic Refining Co. Extraction of condensed ring, polycyclic aromatics from wax. 3,058,905, 10–16–62, Cl. 208—24.
Washburn Co., The: *See*—
Glenny, Clarence S. 3,039,663.
Smith, Mahlon J. 3,049,072.
Washburn, David A., to United States of America, Navy. Sustained operation igniter for ram-jet missiles. 3,024,607, 3–13–62, Cl. 60—39.71.
Washburn, Henry M. Coupon calendar. 3,032,904, 5–8–62, Cl. 40—122.
Washburn, John M., to The Merrow Machine Co. Sewing machine feed mechanism. 3,018,745, 1–30–62, Cl. 112—209.
Washburn, Robert M., and F. A. Billig. Aliphatic boronic acids and esters. 3,030,406, 4–17–62, Cl. 260—462.
Washburn, Robert S., to Beloit Iron Works. Flow indicator. 3,068,832, 12–18–62, Cl. 116—117.
Washington Aluminum Co., Inc.: *See*—
Rushton, Frederick N., and Gladden. 3,067,843.
Washington Iron Works: *See*—
Thompson, James R. 3,062,385.
Washington Packaging Corp.: *See*—
Kent, Richard F., and Schafer. 3,046,715.
Washington, Richard S.: *See*—
Laurer, George J., and Washington. 3,038,145.
Washington Rubber Co.: *See*—
Hough, Lean R. 3,024,827.
Washington State University: *See*—
Mamm, George G. 3,036,947.
Washington University: *See*—
Honnell, Pierre M., and Horn. 3,038,660.
Washnock, Donald H.: *See*—
Washnock, William W., D. H., and J. T. 3,064,685.
Washnock, James T.: *See*—
Washnock, William W., D. H., and J. T. 3,064,685.
Washnock, William W., D. H., and J. T. Diaphragm housing. 3,064,685, 11–20–62, Cl. 137—787.
Wasilisin, Michael E.: *See*—
Shipley, Charles W., Lawrence, and Wasilisin. 3,037,592.
Wasley, William L.: *See*—
Koenig, Nathan H., Wasley, and Pardo. 3,059,990.
McKinnis, Art C., and Wasley. 3,017,433.
Wasmuth, Robert E. Adjustable hinges. 3,019,472, 2–6–62, Cl. 16—129.
Wassell, Frank L., to Wassell Organization, Inc. Expansible index cards. 3,036,576, 5–29–62, Cl. 129—16.7.
Wassell, George W., to Wassell Organization, Inc. Control board panel. 3,034,474, 5–15–62, Cl. 116—130.
Wassell Organization, Inc.: *See*—
Wassell, Frank L. 3,036,576.
Wassell, George W. 3,034,474.
Wasselle, Joseph A. Combined trouble lamp guard and reflector. 3,036,209, 5–22–62, Cl. 240—102.
Wasser, Ernst and F. Reversible casement windows. 3,032,838, 5–8–62, Cl. 20—53.
Wasser, Fred: *See*—
Wasser, Ernst and F. 3,032,838.
Wasserlein, Henry G., to American Electrical Heater Co. Soldering handpiece. 3,052,637, 5–1–62, Cl. 219—26.
Wasserman, Bernard H. Finger brush. 3,018,498, 1–30–62, Cl. 15—167.
Wasserman, Carl I., to Potter Instrument Co., Inc. Logical system for a high speed printer. 3,024,723, 3–13–62, Cl. 101—93.
Wasserman, Carl I., to Potter Instrument Co., Inc. Tape handling equipment. 3,053,427, 9–11–62, Cl. 226—118.
Wasserman, David: *See*—
Jones, Robert E., and Wasserman. 3,065,251.
Wasserman, David, and R. E. Jones, to Merck & Co., Inc. 5,5'-10'-lower alkyl-10,10'-sperobiphenyl phenaza group IV A metal compounds and process of preparing same. 3,069,444, 12–18–62, Cl. 260—429.
Wasserman, Lee S., and A. J. Stolzenberger, to Globe Industries, Inc. Auto pilot structure. 3,052,128, 9–4–62, Cl. 74—5.4.
Wasserman, Max, to American Cyanamid Co. Fire venting roof structure. 3,017,721, 1–23–62, Cl. 50—10.
Wasserman, Max, to American Cyanamid Co. Skylight construction. 3,034,260, 5–15–62, Cl. 50—52.
Wasserman, Max, to American Cyanamid Co. Fire venting skylight. 3,036,406, 5–29–62, Cl. 50—50.
Wasserman, Max, to American Cyanamid Co. Ventible skylight construction. 3,047,983, 8–7–62, Cl. 50—50.
Wasserman, Moe, to Sylvania Electric Products Inc. Resistor. 3,050,420, 8–21–62, Cl. 117—201.
Wasserman, Moe, to Sylvania Electric Products Inc. Electroluminescent device. 3,059,132, 10–16–62, Cl. 313—108.
Wasserman, Moe, to Slyvania Electric Products Inc. Electroluminescent device. 3,070,701, 12–25–62, Cl. 250—209.
Wasserman, Rene D., and J. F. Quaas, to Eutectic Welding Alloys Corp. Hard surfacing material. 3,023,130, 2–27–62, Cl. 117—205.
Wasserman, Rene D., and J. F. Quaas, to Eutectic Welding Alloys Corp. Flux coated silver brazing element and flux compositions therefor. 3,031,346, 4–24–62, Cl. 148—26.
Wasshausen, Heinz P.: *See*—
Merkl, Walter A., and Wasshausen. 3,027,689.
Wasson, Burton K.: *See*—
Parker, John M., and Wasson. 3,056,828.
Wasson, James G.: *See*—
Bookwalter, William H. 3,039,426.

Wasson, Loerwood C., to A. O. Smith Corp. Apparatus for landing loads on a rolling ship. 3,016,256, 1–9–62, Cl. 294—67.
Wasson, Loerwood C., to A. O. Smith Corp. Reinforced plastic porous tubular structure and method of manufacture. 3,047,156, 7–31–62, Cl. 210—497.
Waste King Corp.: *See*—
Fay, John A. 3,028,870.
Fay, John A., Stephens, Fleming, and Jordan. 3,058,479.
Fritz, Charles H., and Martinek. 3,038,172.
Given, Bertram, and Perlow. 3,064,662.
Jordan, Hans. 3,032,382.
Jordan, Hans, and Fay. 3,028,869.
Schneider, Arthur J. R. 3,021,725.
Shapiro, Henry. 3,066,548.
Woodson, Thomas T., Martinek, and Macias. 3,044,715.
Wasylenko, William J.: *See*—
Baker, John F., Gelletich, and Wasylenko. 3,060,277.
Wasyluka, Paul, to Unipak Cartons Ltd. Cartons. 3,025,999, 3–20–62, Cl. 220—113.
Waszkiewicz, John A., to United Show Case Co., Inc. Breath guard. 3,026,162, 3–20–62, Cl. 312—140.4.
Watanabe, Hideyo. Process of manufacturing expanded steel members. 3,034,197, 5–15–62, Cl. 29—6.1.
Watanabe, Koichi, and K. Asano, to Nippon Light Metal Co., Ltd. Screw jack. 3,069,924, 12–25–62, Cl. 74—424.8.
Watanabe, Tamotsu. Electrostatic coating system and methods. 3,031,337, 4–24–62, Cl. 117—93.
Watanabe, Yasushi, and J. I. Nishizawa. Semiconductor inductance. 3,042,844, 7–3–62, Cl. 317—234.
Watari, Masaharu. Typewriter for braille dots and/or visual letters. 3,032,164, 5–1–62, Cl. 197—6.1.
Water, Inc.: *See*—
Fortin, Conrad J. 3,038,495.
Water Process Corp.: *See*—
Harris, Gilbert W., Sr. 3,020,730.
Water Refining Co., Inc.: *See*—
Rose, Donald. 3,067,298.
Waterbury Companies, Inc.: *See*—
Nyden, Robert. 3,035,744.
Watercraft Ltd.: *See*—
Hall, Alfred G. W. 3,025,193.
Hall, Alfred G. W. 3,069,703.
Waterfall, Frederick D.: *See*—
Hewson, Robert L., and Waterfall. 3,053,705.
Waterfield, Clayton F., and H. J. Calderhead, to Bird Electronic Corp. Coaxial line transition section and method of making same. 3,022,482, 2–20–62, Cl. 339—89.
Waterfield, Roland L., to Lear, Inc. Speed reduction drive. 3,039,324, 6–19–62, Cl. 74—640.
Waterfill, Robert W., to Buensod-Stacey Corp. Flexible curtain control valve. 3,053,275, 9–11–62, Cl. 137—512.1.
Waterfill, Robert W., to Buensod-Stacey Corp. Fluid mixer and flow regulator. 3,053,454, 9–11–62, Cl. 236—13.
Waterfill, Robert W., to Buensod-Stacey Corp. Curtain valve. 3,060,960, 10–30–62, Cl. 137—514.
Waterloo Register Co., Inc.: *See*—
Kelly, Edward T., and Schaffer. 3,031,945.
Waterman-Bic Pen Corp.: *See*—
Brown, Harry A. 3,066,652.
Waterman, John E., to Winsor & Jerauld Mfg. Co. Angle reduction guideway for tenter chain. 3,066,377, 12–4–62, Cl. 26—61.
Waterman, John M. Animal traps. 3,031,793, 5–1–62, Cl. 43—81.
Waterman, Paul M.: *See*
Hedland, Harry A., and Waterman. 3,015,341.
Waterman, Russell R., 10% to V. D. Beehler. Oil well heating system. 3,028,916, 4–10–62, Cl. 166—62.
Waterman, William: *See*—
Hedland, Harry A. 3,060,958.
Hedland, Harry A., and Waterman. 3,015,341.
Thomas, William W. 3,015,316.
Waterman, William J., and N. P. Mallett, to Vandervell Products Ltd. Electrodeposition. 3,067,110, 12–4–62, Cl. 204—43.
Waters, Almon B.: *See*—
Skolaut, Paul L., and Waters. 3,051,653.
Waters, Daniel V.: *See*—
Reichelt, Lester O., and Waters. 3,024,588.
Waters, Edward H., to Westinghouse Electric Corp. Electrically operated switch. 3,069,519, 12–18–62, Cl. 200—106.
Waters, Everett W.: *See*—
Krabacher, Roy A., Waters, and Kamps. 3,056,261.
Waters, Everett W., to General Electric Co. Cooling liner for jet engine afterburner. 3,038,309, 6–12–62, Cl. 60—39.66.
Waters, Herbert H., and J. R. Dieckmann, to The Firestone Tire and Rubber Co. Method of making tires. 3,039,839, 6–19–62, Cl. 18—53.
Waters, Kenneth H., and R. E. Joynson, Jr. Digital to analog converter. 3,064,887, 11–20–62, Cl. 235—61.11.
Waters, Lawrence E., to The Goodyear Tire & Rubber Co. Deicer. 3,022,412, 2–20–62, Cl. 219—46.
Waters, Lawrence E., and C. C. Chew. Tool for cutting, scraping, and stripping material from a surface. 3,062,928, 11–6–62, Cl. 30—169.
Waters, Lawrence W., to Hunt Foods and Industries Inc. Pear orienting and feeding machine. 3,040,868, 6–26–62, Cl. 198—33.
Waters, Mack D. Tensioning attachment for loom shuttles. 3,020,934, 2–13–62, Cl. 139—200.
Waters Mfg., Inc.: *See*—
Ringland, George R. 3,035,239.
Waters, Robert A., and Damon. 3,057,194.
Waters, Robert A., and R. W. Damon, to Waters Mfg. Inc. Torque gauge. 3,057,194, 10–9–62, Cl. 73—139.
Waters, Robert S., to Westinghouse Electric Corp. Space heater. 3,059,090, 10–16–62, Cl. 219—39.
Waters, Robert S., to Westinghouse Electric Corp. Heating apparatus. 3,069,525, 12–18–62, Cl. 219—34.
Waters, Rolland M.: *See*—
Walter, Neil F., Waters, and Lee. 3,033,666.
Waters, Rolland M., and J. M. Lee, to The Dow Chemical Co. 1-2 ring cleavage of 2-cyanocycloalkanones. 3,050,547, 8–21–62, Cl. 260—465.4.
Waterson, Arthur P. Land leveler. 3,034,239, 5–15–62, Cl. 37—180.
Waterson, Arthur P. Pilot operated tracer valve for machine tools. 3,053,280, 9–11–62, Cl. 137—622.
Wathen, Ernest L. Display device. 3,017,148, 1–16–62, Cl. 248—35.
Wathen, William A.: *See*—
Klemm, Herman G., Wathen, and Peterson. 3,038,419.
Watkins, Beverly J., to The Dow Chemical Co. Method for inhibiting nitrification of ammonium nitrogen in soil. 3,033,668, 5–8–62, Cl. 71—1.
Watkins, Charles A., to The Auto-Soler Co. Fastener forming and inserting machine. 3,023,412, 3–6–62, Cl. 1—1.
Watkins, Charles H., to Universal Oil Products Co. Continuous process for the production of hydrogen. 3,017,250, 1–16–62, Cl. 23—214.
Watkins, Charles H., to Universal Oil Products Co. Increasing the yield of gasoline boiling range product from heavy petroleum stocks. 3,023,158, 2–27–62, Cl. 208—89.
Watkins, Charles H., to Universal Oil Products Co. Three-stage hydrocarbon hydrocracking process. 3,026,260, 3–20–62, Cl. 208—68.
Watkins, Charles H., to Universal Oil Products Co. Hydrogen manufacture. 3,027,238, 3–27–62, Cl. 23—212.
Watkins, Charles H., to Universal Oil Products Co. Method for effecting catalyzed reactions. 3,048,468, 8–7–62, Cl. 23—1.
Watkins, Gerald J.: *See*—
Cunningham, James M., Pratt, and Watkins. 3,052,408.
Watkins, Hubert T. V-belt drive. 3,037,394, 6–5–62, Cl. 74—230.17.
Watkins, Jack, and V. S. Skinner, 33⅓% to Engineers Testing Laboratory, Inc. Compressibility tester. 3,035,437, 5–22–62, Cl. 73—94.
Watkins, Joel D.: *See*—
Peppel, William J., and Watkins. 3,019,231.
Watkins, John E. Level control and indicating mechanism. 3,029,354, 4–10–62, Cl. 307—117.
Watkins, Lonnie L. Fishing plug. 3,045,382, 7–24–62, Cl. 43—42.17.
Watkins, Norman: *See*—
Weidenhammer, James A., Wroblewski, Watkins, Culveyhouse, and Serenate. 3,034,782.
Watkins, Richard E. Cigarette package container. 3,018,878, 1–30–62, Cl. 206—41.2.
Watkins, Richard E. Cigarette package container. 3,029,931, 4–17–62, Cl. 206—41.2.
Watkins, Richard L.: *See*—
Hooper, Louis K., and Watkins. 3,033,023.
Watkins, Robert A., to E. I. du Pont de Nemours and Co. Pipeline system. 3,034,525, 5–15–62, Cl. 137—1.
Watkins, Sidney C.: *See*—
Gascoigne, Denis, and Watkins. 3,026,048.
Watkins, Spencer H., to Hercules Powder Co. Rosin size stabilized against crystallization and method of making. 3,030,221, 4–17–62, Cl. 106—238.
Watkins, Warren B.: *See*—
Malin, Leonard E., and Watkins. 3,062,223.
Watkins, William B. Antenna mast support. 3,022,970, 2–27–62, Cl. 248—41.
Watkiss, James E. R., to Associated Electrical Industries (Woolwich) Ltd. Apparatus for measuring the thickness of electrically conducting films. 3,064,184, 11–13–62, Cl. 324—40.
Watlington, Lee S. Newspaper vending apparatus. 3,042,250, 7–3–62, Cl. 221—41.
Watrous, Donald L., to General Electric Co. Optical pyrometer apparatus. 3,044,349, 7–17–62, Cl. 88—22.5.
Watson, Alexander S. Dry ore sorter. 3,045,825, 7–24–62, Cl. 209—471.
Watson, Alfred C.: *See*—
Terry, Trent B., and Watson. 3,066,418.
Watson, Arthur E.: *See*—
Stover, Harry E., and Watson. 3,040,492.
Watson, Clyde E. and H. Automatic lot weighing machines. 3,022,845, 2–27–62, Cl. 177—98.
Watson, Donald L., and J. L. Tyrrell, to American Instrument Co., Inc. Apparatus for measuring changes in weight of samples as a function of temperature. 3,055,206, 9–25–62, Cl. 73—15.
Watson, Donald W., to Midwest Automatic Inc. Automatic coding apparatus for embossing machines. 3,032,166, 5–1–62, Cl. 197—20.
Watson, Edward, to Fairey Aviation Ltd. Nuclear magnetic resonance detectors. 3,030,556, 4–17–62, Cl. 317—158.
Watson, Edward, to Fairey Aviation Ltd. Nuclear magnetic resonance detectors. 3,042,856, 7–3–62, Cl. 324—.5.
Watson, Edward J., Jr., to The Dow Chemical Co. 1,3-bis(1′-ethynyl-1′-cyclohexyloxy)-2-propanol. 3,021,371, 2–13–62, Cl. 260—611.

Watson, Frank P., to Mipro Metal Products Co. Receptacles with swinging door on the top. 3,018,719, 1–30–62, Cl. 100—265.

Watson, Frederic R.: *See*—
Edgar, John A., and Watson. 3,033,311.

Watson, George M.: *See*—
Grimes, Warren R., Shaffer, and Watson. 3,063,794

Watson, George R., D. G. Perkins, and I. J. P. James, to Electric & Musical Industries Ltd. Pick-up devices for colour television. 3,017,455, 1–16–62, Cl. 178—5.4.

Watson, H. S., Co.: *See*—
McCarty, Lee A. 3,048,367.
McCarty, Lee A., and Rossoni. 3,035,721.

Watson, Harold: *See*—
Watson, Clyde E. and H. 3,022,843.

Watson, Henry: *See*—
Caldwell, John, Peters, and Watson. 3,060,692.

Watson, Jack H., to Douglas Aircraft Co., Inc. Electric braked motor. 3,048,723, 8–7–62, Cl. 310—77.

Watson, James P., ½ to J. Davidson. Insulated terminal. 3,034,094, 5–8–62, Cl. 339—198.

Watson, James P., ½ to J. Davidson. Snap-acting mechanism. 3,069,916, 12–25–62, Cl. 74—100.

Watson, John D.: *See*—
Newport, John J., Olstowski, and Watson. 3,062,901.
Newport, John J., Olstowski, and Watson. 3,067,263.
Olstowski, Franciszek, and Watson. 3,042,727.

Watson, John W.: *See*—
Watson, N. E. and J. W. 3,037,469.
Watson, N. E. and J. W. 3,047,470.

Watson, John W., C. E. Kendall, and R. Jervis, to Dunlop Rubber Co. Ltd. Composition comprising rubber and chemically-modified carbon black, and method for preparing same. 3,025,259, 3–13–62, Cl. 260—41.5.

Watson, John W., C. E. Kendall, and R. Jervis, to Dunlop Rubber Co. Ltd. Modified carbon black. 3,043,708, 7–10–62, Cl. 106—307.

Watson, Louis E.: *See*—
Ingram, Carl B., and Watson. 3,057,559.

Watson, Norman E. and J. W. Minimum tillage planter. 3,037,469, 6–5–62, Cl. 111—52.

Watson, Norman E. and J. W. Minimum tillage planter. 3,037,470, 6–5–62, Cl. 111—52.

Watson, Paul C.: *See*—
McMahon, Howard O. and Watson. 3,026,190.

Watson, Robert B., and G. W. Horton, to United States of America, Navy. Simultaneous lobe comparison for radar direction finding. 3,025,517, 3–13–62, Cl. 343—16.

Watson, Robert E., to Well Surveys Inc. Automatic purse amplitude control. 3,060,326, 10–23–62, Cl. 307—88.5.

Watson, Robert H.: *See*—
Drake, John M., Watson, Patterson, and McCraigh. 3,066,252.

Watson, W., & Sons Ltd.: *See*—
Hamstead, George W. 3,024,698.

Watson, William E., to Sinclair Refining Co. Solvent extraction process using dimethyl hydrogen phosphite. 3,017,-246, 1–16–62, Cl. 208—322.

Watson, William F.: *See*—
Cunneen, John I., and Watson. 3,062,802.

Watson, William H.: *See*—
Hammond, Eric T., Watson, Cole, and Lane. 3,035,397.

Watson, William S. S., Placement devices for use in medical, surgical, orthopedic, and like work. 3,020,017, 2–6–62, Cl. 248—206.

Watt, Andrew K.: *See*—
Dawson, James J., and Watt. 3,031,011.

Watt, Desmond B., to Swift & Co. Sausage manufacture. 3,047,398, 7–31–62, Cl. 99—109.

Watt, James, to The Marconi Sounding Device Co. Ltd. Subaqueous echo sounders. 3,040,293, 6–19–62, Cl. 340—3.

Watt, James, and R. A. Papsdorf, to Emerson-Pryne Co. Ventilating device having retractable hood. 3,031,946, 5–1–62, Cl. 98—115.

Watt, Robert E., and C. L. Deeken, to Electric Eye Equipment Co. Steering roll construction with slidable pivot. 3,017,-062, 1–16–62, Cl. 226—180.

Watt, William A. L., and J. C. Moseley, to Shell Oil Co. Fuel combustion. 3,063,819. 11–13–62, Cl. 44—72.

Watt, William R., to American Viscose Corp. Gas phase polymerization of olefins. 3,061,601, 10–30–62, Cl. 260—93.7.

Watt, William W., to General Motors Corp. Expansion valve. 3,058,716, 10–16–62, Cl. 251—58.

Watteau, Jean P. H.: *See*—
Baker, William R., and Watteau. 3,038,099.

Watter, Michael, to The Budd Co. Sectional pressure vessel and method of making it. 3,024,938, 3–13–62, Cl. 220—5.

Watter, Michael, to The Budd Co. Method of forming curved sandwich panels. 3,060,561, 10–30–62, Cl. 29—423.

Watter, Michael, to The Budd Co. Composite missile structure. 3,066,822, 12–4–62, Cl. 220—3.

Watters, Bill G.: *See*—
Baruch, Jordan J., and Watters. 3,059,287.

Watters, Bill G., to Bolt Beranek and Newman Inc. Apparatus for producing increased transmission loss. 3,062,316, 11–6–62, Cl. 181—33.

Watters, Jerry G., to Iowa Mfg. Co. of Cedar Rapids. Scratch coat leveling attachment. 3,041,946, 7–3–62, Cl. 94—46.

Watters, Robert L., to General Electric Co. Semiconductor balancing unit. 3,042,874, 7–3–62, Cl. 330—14.

Wattles, Benjamin. Liquid applicator package. 3,035,300, 5–22–62, Cl. 15—563.

Watton Engineering Co. Ltd.: *See*—
O'Brien, Rory M. 3,018,556.

Watts, Cecil E., to Cecil E. Watts Ltd. Loudspeakers. 3,044,570, 7–17–62, Cl. 181—31.

Watts, Cecil E., Ltd.: *See*—
Watts, Cecil E. 3,044,570.

Watts, Chester B., Jr., to A. Alford. Polar displayer. 3,061,-780, 10–30–62, Cl. 324—84.

Watts, Chester B., Jr., to Andrew Alford. Variable delay line. 3,068,431, 12–11–62, Cl. 333—31.

Watts, Claude H., to Precision Metalsmiths, Inc. Sprue form and method of precision casting. 3,015,138, 1–2–62, Cl. 22—134.

Watts Electric & Mfg. Co.: *See*—
Heller, Robert M. 3,059,214.
Heller, Robert M., and Stanley. 3,040,286.
Smith, Thomas W. 3,038,507.
Stanley, Wallace A. 3,040,285.

Watts, Gilbert E.: *See*—
Hainsworth, Sidney B., and Watts. 3,029,166.

Watts, Harold F. B., and W. G. Coxon, to D. Napier & Son Ltd. Control system for marine power plant. 3,064,775. 11–20–62, Cl. 192—98.

Watts, James G., 50% to B. S. Frasik. Barbecue spit construction. 3,028,801, 4–10–62, Cl. 99—419.

Watts, James G., 50% to B. S. Frasik. Basket construction. 3,040,650. 6–26–62, Cl. 99—402.

Watts, James G., 50% to B. S. Frasik. Basket structure. 3,051,075, 8–28–62, Cl. 99—397.

Watts, John D., to Gray Tool Co. Fluid sealing arrangement. 3,021,974, 2–20–62, Cl. 220—46.

Watts, John D., to Gray Tool Co. Closure and seal. 3,055,-537, 9–25–62, Cl. 220—46.

Watts, John D., and E. K. Pierce, Jr., to Gray Tool Co. Hanger assembly and seal therefor. 3,051,513, 8–28–62, Cl. 285—146.

Watts, John D., and J. C. Ireland, to Gray Tool Co. Multiple tubing string well completion equipment. 3,052,301, 9–4–62, Cl. 166—97.

Watts Regulator Co.: *See*—
Dillon, Wendell M. 3,015,706.
Time, Sebastian B. 3,023,849.

Watts, Ridley, Jr., to The American Packaging Corp. Package and method of making same. 3,053,023, 9–11–62, Cl. 53—30.

Waugh, Charles C., to The Foxboro Co. Mass flow meter. 3,043,138, 7–10–62, Cl. 73—194.

Waugh, Charles C., to The Foxboro Co. Flowmeter. 3,053,-087, 9–11–62, Cl. 73—231.

Waugh, Charles C., and K. R. Jackson, to The Foxboro Co. Mass flow meter. 3,043,139, 7–10–62, Cl. 73—194.

Waugh, Charles C., and K. R. Jackson, to The Foxboro Co. Mass flow meter. 3,043,140, 7–10–62, Cl. 73—194.

Waugh, Charles C., and K. R. Jackson, to The Foxboro Co. Mass flow meter. 3,043,141, 7–10–62, Cl. 73—194.

Waugh, John A.: *See*—
Marzocchi, Alfred, Waugh, and Beaudoin. 3,062,670.

Waugh, Lorin L., Electrically illuminated sign. 3,064,246, 11–13–62, Cl. 340—339.

Waukesha Bearings Corp.: *See*—
Gruber, Jerome M. 3,022,123.
Gruber, Jerome M. 3,033,031.
Gruber, Jerome M. 3,048,456.

Waverly Oil Works Co.: *See*—
Shamaiengar, Muthu. 3,028,335.

Wawrousek, Hans W., and P. W. Neurath, to General Electric Co. Treatment of iron-cobalt alloys. 3,065,118, 11–20–62, Cl. 148—122.

Wawzonek, Joseph: *See*—
St. Pierre, Paul L., Wawzonek, and E. St. Pierre. 3,036,449.

Waxman, Ronald: *See*—
Lee, Imsong, and Waxman. 3,065,358.

Waxter, William E.: *See*—
Young, Luther O., and Waxter. 3,068,150.

Waxweiler, James H., and R. M. Larrimore, Jr., to Armco Steel Corp. Heat-treating method and product. 3,046,167, 7–24–62, Cl. 148—135.

Way, Burt L.: *See*—
Barron, Raymond C., Stevens, and Way. 3,024,576.

Way, Frederick L., to Mobilcolor, Inc. Audio signal-responsive device. 3,018,683, 1–30–62, Cl. 84—464.

Way, Lee V., Jr. Variable speed gearing. 3,051,022, 8–28–62, Cl. 74—793.

Way, Robert B., and C. D. Hersey. Automatic painting machine. 3,039,431, 6–19–62, Cl. 118—301.

Way, William H.: *See*—
Wanner, William A., and Way. 3,057,438.

Wayland, Rosser L., Jr.: *See*—
Wright, Ernest L., Smith, and Wayland. 3,038,821.

Wayman, Morris, M. E. Martin, and G. Graf, to Columbia Celluiose Co. Ltd. Propionic acid fermentation. 3,067,107, 12–4–62, Cl. 195—28.

Wayman, Paul B., and P. L. Johnson, to Fisher Governor Co. Liquid evacuating adapter. 3,045,722, 7–24–62, Cl. 141—348.

Wayman, Robert W., to Borg-Warner Corp. Rear mounted transmission. 3,063,308, 11–13–62, Cl. 74—677.

Waymire, Richard C.: *See*—
Miller, Andrew J., Nellis, and Waymire. 3,020,661.

Waymouth, John F.: *See*—
Gungle, Warren C., and Waymouth. 3,052,813.
Gungle, Warren C., and Waymouth. 3,067,351.

Waymouth, John F., Jr., to Sylvania Electric Products Inc. Fluorescent lamp. 3,069,580, 12–18–62, Cl. 313—109.
Wayne, Clyde D., to National Dairy Products Corp. Method of packaging. 3,069,273, 12–18–62, Cl. 99—171.
Wayne, Edward T., to E. H. Titchener, & Co. Poultry shackles. 3,044,109, 7–17–62, Cl. 17—44.1.
Wayne, Harry A.: *See*—
McCarrell, Stuart G., and Wayne. 3,061,689.
Wayne, Harry A. Moisture indicating device. 3,019,384, 1–30–62, Cl. 324—29.
Wayne Home Equipment Co., Inc.: *See*—
Lamprecht, Richard P. 3,040,830.
Wayne Kerr Laboratories Ltd., The: *See*—
Calvert, Raymond. 3,031,614.
Wayrynen, Robert E.: *See*—
Holland, Russell S., and Wayrynen. 3,063,863.
Wayrynen, Robert E., to E. I. du Pont de Nemours and Co. Doubly fired electroluminescent phosphors and method for their preparation. 3,034,990, 5–15–62, Cl. 252—301.6.
Wayrynen, Robert E., to E. I. du Pont de Nemours and Co. Preparation of tarnished zinc sulfide phosphors. 3,052,638, 9–4–62, Cl. 252—301.65.
Wayson, Andrew J., to Merriman Bros., Inc. Means for controlling the rate of flow of oil to a spinning or twisting ring. 3,043,085, 7–10–62, Cl. 57—120.
Wayson, Andrew J., and A. G. Buechianeri, to Merriman Bros., Inc. Spinning ring with wick in holder. 3,045,417, 7–24–62. Cl. 57—120.
Waythomas, Donald J.: *See*—
Schroeder, Herbert M., and Waythomas. 3,022,326.
Waythomas, Donald J., to Textron Inc. Urethane modified vegetable oil. 3,022,227, 2–20–62, Cl. 260—404.5.
Wazelt, Friedrich G.: *See*—
Clemens, John E., Johnstone, Kerris, and Wazelt. 3,059,521.
Weage, Darrell D.: *See*—
Hibbard, Billy B., and Weage. 3,044,992.
Weakly, Marlin E., to Deere & Co. Air inlet control for fans and the like. 3,025,882, 3–20–62, Cl. 138—46.
Wean, Earl G. Burial units. 3,038,232, 6–12–62, Cl. 27—35.
Wean Engineering Co., Inc., The: *See*—
Baughman, George M., and Erhardt. 3,059,612.
Erskine, Robert J. 3,042,334.
Perrine, Sterling O. 3,063,713.
Sarka, Albert J. 3,037,410.
Sarka, Albert J. 3,037,412.
Sarka, Albert J. 3,043,177.
Sarka, Albert J. 3,045,519.
Sarka, Albert J. 3,054,315.
Shay, Eli. 3,058,378.
Wear, Robert L., and R. L. Bowman, to Minnesota Mining and Mfg. Co. Heat-curing epoxy resin compositions. 3,052,650, 9–4–62, Cl. 260—47.
Wearden, Charles G.: *See*—
Frankhouser, Frederick M., Clark, and Wearden. 3,065,997.
Weasler, Anthony V. Guard tube for jointed drive shafts. 3,031,865, 5–1–62, Cl. 64—3.
Weatherby, Roy E. Trigger and safety mechanism for firearms. 3,024,559, 3–13–62, Cl. 42—76.
Weatherford Oil Tool Co., Inc.: *See*—
Brown, Robinson W. 3,028,182.
Weatherhead Co., The: *See*—
Abramoska, Paul A. 3,028,179.
Allin, Frederick R. 3,022,797.
Carpenter, Robert H. 3,066,564.
Courtot, Louis B., and Allin. 3,026,129.
Courtot, Louis B., and Tanker. 3,056,424.
Marette, Ralph T., and Miller. 3,032,051.
Marette, Ralph T., and Reusz. 3,054,261.
Mlinar, Elmer J. 3,060,973.
Weatherhead, Herman R., and E. K. Butler, to Chrysler Corp. Compressor intake valve. 3,070,122, 12–25–62, Cl. 137—525.
Weatherholt, Dallas D., L. F. Cherry, and J. H. Fulford. Method and apparatus for treating hair. 3,019,795, 2–6–62, Cl. 132—7.
Weatherill, Philip H., to Bell Telephone Laboratories, Inc. Reversible counting relay chain. 3,028,084, 4–3–62, Cl. 235—92.
Weatherley Oilgear Ltd.: *See*—
Poynter, Cyril E. 3,053,148.
Weatherly, William G. Chain saw filing tool. 3,027,784, 4–3–62, Cl. 76—36.
Weatherproof Products Corp., The: *See*—
Martin, Robert L. 3,022,065.
Weather-Seal, Inc.: *See*—
Eskridge, Harold E., and Johnson. 3,015,839.
Eskridge, Harold E., and Johnson. 3,015,840.
Etling, Harold A. 3,038,570.
Studer, Lewis O. 3,016,103.
Weatherwax, Richard C.: *See*—
Conlisk, John R., Jonas, Stamm, Tarkow, and Weatherwax. 3,034,947.
Weaver, Calvin P. Side delivery rake. 3,030,760, 4–24–62, Cl. 56—377.
Weaver, Donald A.: *See*—
Fuller, Verlon M., and Weaver. 3,021,651.
Weaver, Ellis E.: *See*—
Blecker, Vincent C., Pearson, Weaver, and De Gryse. 3,054,023.
Weaver, Elmer A., to United States of America, Agriculture. Method of increasing microbial activities. 3,019,170, 1–30–62, Cl. 195—51.
Weaver, Ernest P.: *See*—
Davies, Ben, and Weaver. 3,070,449.
Weaver, Ernest W., to Midland-Ross Corp. Furnace with cooled and recirculated atmosphere. 3,035,824, 5–22–62, Cl. 263—40.
Weaver, Everett J.: *See*—
Hinkle, John H., Jr., Weaver, and Smith. 3,058,803.
Weaver, George N., ¼ to Gadget-of-the-Month Club, Inc. Latch control apparatus. 3,021,164, 2–13–62, Cl. 292—219.
Weaver, Gerald L.: *See*—
Evans, George A., Machielse, Morgan, and Weaver. 3,025,106.
Weaver, Harrison, Jr.: *See*—
Gier, Richard W., and Weaver. 3,070,084.
Weaver, Harry E.: *See*—
Durham, Edwin, and Weaver. 3,028,844.
Weaver, Ivan A., to Dura Corp. Hydraulic lift. 3,051,141, 8–28–62. Cl. 121—46.
Weaver, John A., to Oscar Mayer & Co., Inc. Smoke generator. 3,057,339, 10–9–62, Cl. 126—59.5.
Weaver, John B., and R. K. Petry, to Congoleum-Nairn Inc. Process of making a plasticized vinyl resin and process of making a surface covering therefrom. 3,015,640, 1–2–62, Cl. 260—26.
Weaver, John E. Line holding clamp device. 3,026,646, 3–27–62, Cl. 43—43.12.
Weaver, Kathleen P. Convertible shoes. 3,032,896, 5–8–62, Cl. 36—2.5.
Weaver, Leslie B.: *See*—
Rondeau, Herbert F., and Weaver. 3,069,670.
Weaver, Paul J., to True-Trace Corp. Tracer valve. 3,035,807, 5–22–62, Cl. 251—3.
Weaver, Paul J., to Banstrom Industries, Inc. Machine tool control. 3,045,435, 7–24–62, Cl. 60—97.
Weaver, Paul J., to Banstrom Industries, Inc. Pattern controlled machine tool. 3,055,393, 9–25–62, Cl. 137—622.
Weaver, Preston R., to Maxson Electronics Corp. Acceleration switch. 3,022,393, 2–20–62, Cl. 200—61.45.
Weaver, Preston R., to Maxson Electronics Corp. Acceleration switch. 3,057,976, 10–9–62, Cl. 200—61.45.
Weaver, Robert C.: *See*—
Werner, Robert V., Weaver, and Crooks. 3,025,520.
Weaver, Scott. Vehicle speed recording apparatus. 3,032,766, 5–1–62, Cl. 346—107.
Weaver, Vance, Composition, Inc.: *See*—
Weaver, Vance W. 3,045,797.
Weaver, Vance W., to Vance Weaver Composition Inc. Typewriter improvement. 3,045,797, 7–24–62, Cl. 197—81.
Weaver, William R.: *See*—
Heinzel, Joseph A. 3,040,433.
Weaving, John H., to The Austin Motor Co. Ltd. Gas turbines. 3,070,286, 12–25–62, Cl. 230—116.
Webb, Alfred W. O.: *See*—
Payne, Ronald J. M., and Webb. 3,049,424.
Webb, Bryan, Jr., to Westinghouse Electric Corp. Control apparatus. 3,026,470, 3–20–62, Cl. 323—43.5.
Webb, Charles E., and W. G. Hawkins, to C.I.C. Engineering Ltd. Method of molding articles of microcellular material. 3,044,122, 7–17–62, Cl. 18—48.
Webb, Charles W.: *See*—
Ahuise, Robert R., Webb, and Violette. 3,069,026.
Webb City Metal Products: *See*
Ward, James C. 3,033,591.
Webb, Cleitus E., Jr.: *See*—
Webb, Cleitus E., Sr., C. E. Webb, Jr., and R. J. Webb. 3,051,261.
Webb, Cleitus E., Sr., C. E. Webb, Jr., and R. J. Webb, to Wel-Bilt Products Co. Adjustable stairs. 3,051,261, 8–28–62, Cl. 182—78.
Webb, Edmond F., to R. L. Kuss & Co., Inc. Fuel reserve system. 3,033,274, 5–8–62, Cl. 158—46.5.
Webb, Edmond F., to The Delman Co. Windshield clearing system. 3,059,263, 10–23–62, Cl. 15—250.02.
Webb, Frederick J.: *See*—
Farhat, Kelly, and Webb. 3,057,843.
Webb, Glentworth D.: *See*—
Rodgers, John. 3,054,328.
Webb, Jack R.: *See*—
Hornschuch, Hanns, and Webb. 3,039,442.
Webb, Jervis B., Co.: *See*—
Dehne, Clarence A. 3,044,415.
Reibel, Sidney, Purdon, and Pachuta. 3,044,416.
Webb, John C. Folding blade for an oar or paddle. 3,037,219, 6–5–62, Cl. 9—24.
Webb, Johnathan H. Demountable cutter bar structure for tractor. 3,034,274, 5–15–62, Cl. 56—6.
Webb, Leslie, to Vesco Ltd. Apparatus for overedge folding and securing flexible material. 3,070,148, 12–25–62, Cl. 156—492.
Webb, Lester L., to Ford Motor Co. Wheel manufacture. 3,032,864, 5–8–62, Cl. 29—156.8.
Webb, Orlando, Jr., to Stratford Engineering Corp. Concentric injector for circulating tube reactor. 3,027,242, 3–27–62, Cl. 23—285.
Webb, Orlando, Jr., to Stratford Engineering Corp. Alkylation effluent flash vaporization system. 3,055,958, 9–25–62, Cl. 260—683.58.
Webb, Paul, to Environment, Inc. Personnel isolation and protection systems. 3,049,896, 8–21–62, Cl. 62—384.

Webb, Robert G., to Western Electric Co., Inc. Apparatus for clamping and indexing articles. 3,020,998, 2–13–62, Cl. 198—210.

Webb, Robert J.: *See—*
Webb, Cleitus E., Sr., C. E. Webb, Jr., and R. J. Webb. 3,051,261.

Webb, Robert L., to The Glidden Co. Hydrohalogenation of myrcene. 3,016,408, 1–9–62, Cl. 260—654.

Webb, Robert L., to The Glidden Co. Treatment of cyclic terpenes. 3,028,418, 4–3–62, Cl. 260—489.

Webb, Robert L., to The Glidden Co. Process for preparing organoleptic materials. 3,028,431, 4–3–62, Cl. 260—594.

Webb, Robert L., to The Glidden Co. Nitrogen base catalyzed displacement reactions of allylic terpene halides. 3,031,442, 4–24–62, Cl. 260—97.5.

Webb, Robert S. Per pulse cut-off circuit. 3,018,411, 1–23–62, Cl. 315—163.

Webb, Robert S., to Elox Corp. of Michigan. Electro-hydraulic metal working system. 3,062,192, 11–6–62, Cl. 121—38.

Webb, Robert S., to Elox Corp. of Michigan. Impedance matching circuit for spark machining. 3,062,985, 11–6–62, Cl. 315—163.

Webb, Venard C., to Grain Belt Supply Co., Inc. Reversible die for forming blower housings. 3,070,055, 12–25–62, Cl. 113—46.

Webb, William, Jr.: *See—*
Raphael, Thomas, Merrill, and Webb. 3,062,699.

Webb, William H., and J. D. Vie, to United States of America, Atomic Energy Commission. Separations by electrodialysis. 3,038,854, 6–12–62, Cl. 204—180.

Webb, Willis E., to Webcor, Inc. Intercommunication system. 3,067,286, 12–4–62, Cl. 179—1.

Webber, Charles S., to Norton Co. Pressure sensitive adhesive tapes having a primer coating of a half ester of a copolymer of styrene and maleic acid and a terpolymer of butadiene, styrene, vinyl pyridine. 3,028,259, 4–3–62, Cl. 117—76.

Webber, Clarence E., and W. G. Triest, to Triest Mfg. Works, Inc. Control valve system for pneumatic-hydraulic tools. 3,045,433, 7–24–62, Cl. 60—54.5.

Webber, Lowell. Oven for reconstituting frozen food. 3,066,213, 11–27–62, Cl. 219—35.

Webbere, Fred J.: *See—*
Hanink, Dean K., and Webbere. 3,047,381.

Webbere, Fred J., to General Motors Corp. Coated metallic insert in mold. 3,045,301, 7–24–62, Cl. 22—174.

Webcor, Inc.: *See—*
Bara, Edwin S. 3,033,576.
Bara, Edwin S. 3,070,321.
Braski, Raymond J., and Krause. 3,019,320.
Dale, Colin B. 3,023,009.
Hechler, Valentine, IV, and Weinberg. 3,035,550.
Romano, Sam S. 3,036,158.
Schwaneke, Fred C. 3,049,922.
Webb, Willis E. 3,067,286.

Weber Addressing Machine Co., Inc.: *See—*
Shelffo, Loren E. 3,062,675.

Weber Aircraft Corp.: *See—*
Rickards, Michael A. 3,063,663.

Weber, Albert. Adjusting device for glass boundary walls comprising upper and lower supporting means. 3,027,213, 3–27–62, Cl. 312—140.3.

Weber, Alexander, to Dr. Hans Beer and Mrs. Emma Weber-Horesberger trading as AWEPA. Device for slidably supporting curtains and the like. 3,064,304, 11–20–62, Cl. 16—93.

Weber, Anton: *See—*
Hasemann, Rolf, and Weber. 3,032,656.

Weber, Artur, to Saia A.G. Contactor. 3,041,423, 6–26–62, Cl. 200—104.

Weber, Berthold C., to United States of America, Air Force. Crucible and refractory material therefor. 3,049,432, 8–14–62, Cl. 106—57.

Weber, Carl, to Automatic Canteen Co. of America. Storage and vending apparatus. 3,018,920, 1–30–62, Cl. 221—90.

Weber, Carl. Portable supporting and mounting device for power tools. 3,036,608, 5–29–62, Cl. 144—285.

Weber, Charles L., to Gleason Reel Corp. Take-up reel. 3,033,488, 5–8–62, Cl. 242—107.5.

Weber, Dieter, to "Patelhold" Patentverwertungs- & Elektro-Holding A.G. Microwave tube with interdigital electrode construction. 3,064,159, 11–13–62, Cl. 315—39.73.

Weber, Edward H., Jr., to Bell Telephone Laboratories, Inc. Transistorized switching circuit having bipolar control. 3,051,854, 8–28–62, Cl. 307—88.5.

Weber, Edward P.: *See—*
Jech, Robert W., and Weber. 3,052,538.

Weber, Erhard: *See—*
Riemenschneider, Wilhelm, Hornig, Weber, and Dialer. 3,057,915.

Weber, Eugen, to Hydro-Shemie, Aktiengesellschaft. Transmission for shearing plates. 3,044,310, 7–17–62, Cl. 74—86.

Weber, Georges. Apparatus for irradiating liquids. 3,037,116, 5–29–62, Cl. 250—48.

Weber, Gifford A., to The Bendix Corp. Displacement ratio transmitter. 3,062,053, 11–6–62, Cl. 73—407.

Weber, H. G., and Co.: *See—*
Weber, Herbert H. 3,033,257.

Weber, Hans, to Jenaer Glaswerk Schott & Gen. Distilling apparatus. 3,020,215, 2–6–62, Cl. 202—197.

Weber, Harold, H. J. Brown, and A. T. Blake, to Celanese Corp. of America. Rapid roll changer. 3,039,712, 6–19–62, Cl. 242—56.

Weber, Herbert H., to H. G. Weber and Co. Bag forming tube and method of forming and accumulating the same. 3,033,257, 5–8–62, Cl. 150—1.

Weber, Herman W., to H. K. Porter Co., Inc. Flexible anchor arrangement for castable or plastic refractory and method for employing the same. 3,019,561, 2–6–62, Cl. 50—368.

Weber, Hermann, and J. Method and means for producing explanatory texts on the pictures of films. 3,031,362, 4–24–62, Cl. 156—8.

Weber-Horesberger, Mrs. Emma: *See—*
Weber, Alexander. 3,064,304.

Weber, Horst, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of sodium zeolite A. 3,058,805, 10–16–62, Cl. 23—113.

Weber, Jean: *See—*
Weber, Hermann and J. 3,031,362.

Weber, Joachim F. L., and C. L. Heck, to International Standard Electric Corp. Method of making ferrites. 3,015,-553, 1–2–62, Cl. 23—50.

Weber, John, Jr.: *See—*
Whitfield, William A., and Weber. 3,030,652.

Weber, John A.: *See—*
De Gryse, Gentiel M., Otis, and Weber. 3,053,041.

Weber, John P.: *See—*
Savitt, Jacob, Stresau, and Weber. 3,062,143.

Weber, Josef M., to Albeko Schuhmaschinen-G.m.b.H. Adjusting mechanism for band-knife leather splitting machine. 3,060,714, 10–30–62, Cl. 69—10.

Weber, Joseph A.: *See—*
Thomas, James R. 3,063,322.

Weber, Joseph A., J. R. Thomas, and R. W. Jackson; said Thomas and Jackson assors. to said Weber. Apparatus for feeding and applying stencils. 3,052,284, 9–4–62, Cl. 156—542.

Weber, Joseph R., and S. E. Hauritz, to Hoffman Electronics Corp. Seed crystal holding chucks. 3,046,029, 7–24–62, Cl. 279—37.

Weber-Knapp Co.: *See—*
Phelps, Malcolm T. 3,035,862.

Weber, Kurt: *See—*
Staeuble, Max, and Weber. 3,022,304.
Staeuble, Max, and Weber. 3,029,236.
Staeuble, Max, and Weber. 3,054,795.
Staeuble, Max, and Weber. 3,060,180.

Weber, Leo L., to Essex Wire Corp. Electromagnet. 3,021,-455, 2–13–62, Cl. 317—191.

Weber, Leo L., to Essex Wire Corp. Electric signaling device. 3,021,520, 2–13–62, Cl. 340—384.

Weber, Leo L., to Essex Wire Corp. Fuel burner control system. 3,057,398, 10–9–62, Cl. 158—28.

Weber, Max. Friction roller gear transmission. 3,023,643. 3–6–62, Cl. 74—796.

Weber, Paul: *See—*
Hechler, Georg, and Weber. 3,038,779.

Weber, Richard E., Sr.: *See—*
McCreary, James T., Van Zant, and Weber. 3,064,244.

Weber, Richard A., to United States of America, National Aeronautics and Space Administration. Venting vapor apparatus. 3,068,658, 12–18–62, Cl. 62—50.

Weber, Rudolf: *See—*
Junghans, Helmut, von Zeppelin, and Weber. 3,037,438.
Junghans, Helmut, and Weber. 3,022,733.

Weber, Rudolf, to Gebruder Junghans AG. Mechanical dial gauge. 3,066,420, 12–4–62, Cl. 33—172.

Weber, Sylvester A., to Westinghouse Electric Corp. Hydrogen gauge. 3,060,726, 10–30–62, Cl. 73—53.

Weber, Theodore E.: *See—*
Dickson, Edgar V., and Weber. 3,063,253.
Dickson, Edgar V., and Weber. 3,063,254.

Weber, Victor, and C. D. Branson, to Robertshaw-Fulton Controls Co. Top surface burner for gas range. 3,042,110, 7–3–62, Cl. 158—116.

Weber, Victor, C. D. Branson, and J. F. Beal, to Robertshaw-Fulton Controls Co. Automatic control device. 3,044,299, 7–17–62, Cl. 73—363.

Weber, Victor and W. J. Russell, to Robertshaw-Fulton Controls Co. Temperature indicating device. 3,049,924, 8–21–62, Cl. 73—395.

Weber, William F. Dipping machine. 3,049,986, 8–21–62, Cl. 99—234.

Weber, Wolfgang: *See —*
Schippers, Heinz, Horster, and Weber. 3,064,910.
Schippers, Heinz, and Weber. 3,036,784.

Weber, Wolfgang, and H. Lohest, to Barmer Maschinenfabrik Aktiengesellschaft. Winding device for spinning, doubling and spooling frames. 3,054,569, 9–18–62, Cl. 242—45.

Weberg, Carroll: *See—*
Phillips, Omi G. 3,035,526.

Webnar, Joseph C.: *See—*
Roth, Charles P., and Webnar. 3,061,576.

Webster, Benjamin C.: *See—*
Hubbell, Harvey, and Webster. 3,066,276.

Webster, Charles W., to Tri-Kris Co., Inc. High pressure valve, shank and stem assembly. 3,049,332, 8–14–62, Cl. 251—88.

Webster, Clifford L. Partition construction. 3,037,593, 6–5–62, Cl. 189—34.

Webster, Clifford L. Partition construction. 3,040,847, 6–26–62, Cl. 189—34.

Webster, David R. Cylindrical pressure headbox. 3,016,089, 1–9–62, Cl. 162—339.

Webster, David R. Continuous web forming machine. 3,056,-719, 10–2–62, Cl. 162—203.
Webster, David R. Silent suction roll assembly. 3,057,402, 10–9–62, Cl. 162—368.
Webster, Donald G. Truck tanker construction. 3,051,502, 8–28–62, Cl. 280—5.
Webster, Edward J., to Chamberlain Corp. Enclosed liquid pump. 3,053,194, 9–11–62, Cl. 103—153.
Webster Electric Co.: *See*—
Blank, Laverne E. 3,064,082.
Blank, Laverne E. 3,064,083.
Hipp, William J. 3,020,721.
Hipp, William J. 3,030,929.
Webster, Frederick, to David Brown Tractors, Ltd. Loading devices for mounting on vehicles. 3,019,922, 2–6–62, Cl. 214—140.
Webster, Gerald M.: *See*—
Meier, Edwin H. Roark, Shelton, and Webster. 3,037,186.
Webster, Harold, to National Research Development Corp. Process for preparing dialkyl alkylphosphonothionate. 3,035,081, 5–15–62, Cl. 260—461.
Webster Instrument, Inc.: *See*—
Webster, Robert A. 3,024,648.
Webster, John C.: *See*—
Stroud, John M., Webster, Steiner, and Sessions. 3,041,-417.
Webster, John L., to Reynolds Metals Co. Adjustable-shut-height press. 3,051,078, 8–28–62, Cl. 100—257.
Webster Mfg., Inc.: *See*—
Judd, Donald G. 3,024,674.
Webster, Milo E., to Otto Bernz Co., Inc. Pressure container construction. 3,018,914, 1–30–62, Cl. 220—3.
Webster, Milo E., to Otto Bernz Co., Inc. Automobile heater. 3,029,802, 4–17–62, Cl. 126—93.
Webster, Milo E., to Otto Bernz Co., Inc. Portable L.P. gas torch. 3,029,807, 4–17–62, Cl. 126—271.2.
Webster, Milo E., to Otto Bernz Co., Inc. Gas burner. 3,067,-811, 12–11–62, Cl. 158—114.
Webster, Milo E., and J. Casella, to Otto Bernz Co., Inc. Container construction for pressurized fluids. 3,029,981, 4–17–62, Cl. 222—3.
Webster, Robert A., to Webster Instrumeat, Inc. Double beam force measuring instrument. 3,024,648, 3–13–62, Cl. 73—141.
Webster, Robert C., to Air Reduction Co., Inc. Methods of treating corn. 3,070,447, 12–25–62, Cl. 99—193.
Webster, Robert G., to Webster Webster, Inc. Device for washing truck bodies. 3,037,224, 6–5–62, Cl. 15—21.
Webster, Roger R.: *See*—
Evans, Arthur D., and Webster. 3,050,638.
Nygaard, James L., and Webster. 3,022,421.
Webster, Roger R., to Texas Instruments Inc. Automatic gain controls for radios. 3,035,170, 5–15–62, Cl. 250—20.
Webster, William G.: *See*—
Davies, Robert H., and Webster. 3,022,954.
Davies, Robert H., Webster, and Barrickiow. 3,028,102.
Webster, William G., to Parker-Hannifen Corp. Dual-orifice return flow nozzle. 3,029,029, 4–10–62, Cl. 239—404.
Webster, William W., to General Motors Corp. Closures for upright pipes or stacks. 3,022,717, 2–27–62, Cl. 98—59.
Webster, Willie E., to The Pure Oil Co. Oil saver shock absorber. 3,032,112, 5–1–62, Cl. 166—84.
Wechsberg, Heinz E.: *See*—
Hohenberg, Paul M., James, and Wechsberg. 3,017,371.
Wechsler, Harry: *See*—
Arond, Lester H., Salem, Wechsler, and Makower. 3,017,-396.
Wechsler, Harry, and H. N. Beaudet, to The Borden Co. Aqueous suspension polymerization in the presence of alkane hydrocarbons. 3,053,820, 9–11–62, Cl. 260—87.1.
Wechsler, Paul H., to Capitol Records, Inc. Apparatus for removing phonograph record labels. 3,060,477, 10–30–62, Cl. 15—77.
Wechter, William J.: *See*—
Babcock, John C., and Wechter. 3,019,244.
Wechter, William J., to The Upjohn Co. 3.20-dioximes of 11-hydroxy-progesterones. 3,019,242, 1–30–62, Cl. 260—397.5.
Wechter, William J., to The Upjohn Co. 3-oximes and 3,22-bisoximes of 20-chol-4-enes. 3,070,611, 12–25–62, Cl. 260—397.
Wechter, William J., and D. G. Anger, to The Upjohn Co. 3-oximes of 11β,20β-dihydroxy-4-pregnen-3-one and the corresponding 2α-methyl, 6α-methyl and 9α-fluoro derivatives thereof. 3,061,618, 10–30–62, Cl. 260—397.45.
Weckesser, Ethan. Ratchet buckle. 3,049,778, 8–21–62, Cl. 24—180.
Wedell, Hans: *See*—
Strauss, Wennemar, and Wedell. 3,023,152.
Wedell, Hans, to Bohme Fettchemie G.m.b.H. Dry-cleaning composition and process. 3,057,676, 10–9–62, Cl. 8—142.
Wedemeyer, George W.: *See*—
Singdale, Fred N., Wedemeyer, and Righter. 3,036,283.
Wedemeyer, Karlfried, K. G. Kleb, H. A. Dortmann, and D. Delfs, to Farbenfabriken Bayer Aktiengesellschaft. Process for the treatment of hydroxyl group-containing textile materials. 3,066,005, 11–27–62, Cl. 8—54.2.
Wedepohl, Peter T.: *See*—
Custers, Jan F. H., Dyer, Senior, and Wedepohl. 3,061,-877.
Weder, Erwin H.: *See*—
Osswald, Otto A. B., and Weder. 3,030,720.
Wedge Protectors, Inc.: *See*—
Hillix, Foster F. 3,034,565.
Hillix, Foster F. 3,048,202.
Wedgelock Corp. of California: *See*—
Finkle, Lewis C. 3,024,682.
Wedgewood, Robert S., to C. P. Clare, Canada Ltd. Voltage regulator circuit. 3,051,890, 8–28–62, Cl. 323—66.
Wedlake, Roy E., ½ to M. E. Cusick. Core unit with collapsible pin for sand mold. 3,028,643, 4–10–62, Cl. 22—165.
Weed, Herman R., to Robbins & Myers, Inc. Testing device for electrical windings and the like. 3,045,177, 7–17–62, Cl. 324—54.
Weed, Mark B., to E. I. du Pont de Nemours and Co. Herbicidal composition and method employing mixtures of substituted ureas and triazines. 3,022,150, 2–20–62, Cl. 71—2.5.
Weed, Roy W.: *See*—
Blakeslee, Harry N., and Weed. 3,044,441.
Weedman, John A., to Phillips Petroleum Co. Separation of xylene isomers by crystallization and distillation. 3,067,-270, 12–4–62, Cl. 260—674.
Weedon, Basil C. L.: *See*—
Barton, Derek H. R., Weedon, and Davis. 3,053,886.
Weehuizen, Frits, to Brown, Boveri & Cie, Aktiengesellschaft. Regulating arrangement for steam turbine installation with intermediate superheater. 3,069,859, 12–25–62, Cl. 60—73.
Weekly, Robert L. Self-propelled platform vehicle for harvesting low growing crops. 3,033,303, 5–8–62, Cl. 180—65.
Weeks, Charles C.: *See*—
Seeley, Bernard G., and Weeks. 3,035,995.
Weeks, Edgar W., Jr.: *See*—
Irons, Ralph D., and Weeks. 3,053,699.
Weeks, Geoffrey A.: *See*—
Chatfield, Herbert W., and Weeks. 3,042,687.
Weeks, Ivan F., to North American Aviation, Inc. Closed-cycle water boiler reactor. 3,028,327, 4–3–62, Cl. 204—193.2.
Weeks, Ivan F., to North American Aviation, Inc. Method of removing gaseous fission products from gases. 3,041,134, 6–26–62, Cl. 23—2.
Weeks, John G.: *See*—
Lenk, Elmer N., Weeks, and Wiest. 3,054,036.
Lenk, Elmer N., Weeks, and Wiest. 3,054,090.
Weeks, Lloyd E., and R. J. McManimie, to Monsanto Chemical Co. Ziegler catalysts modified with non-ionic surfactants and method of preparing said catalysts. 3,060,132, 10–23–62, Cl. 252—429.
Weeks, Norman E., Jr., to Westinghouse Electric Corp. Exhaust nozzle having a flow area of variable convergency and divergency. 3,049,873, 8–21–62, Cl. 60—35.6.
Weeks, Ray A.: *See*—
Buchholz, Arnold R., Haban, and Weeks. 3,016,191.
Buchholz, Arnold R., Haban, and Weeks. 3,026,982.
Weeks, Richard A., to Koss, Inc. Headset mounting bracket. 3,053,944, 9–11–62, Cl. 179—156.
Weeks, Richard J. Air compressor for internal combustion engine powered automotive vehicles. 3,053,490, 9–11–62, Cl. 248—17.
Weeks, Walter R., to General Electric Co. Hydraulic thermostat bulb shielding means. 3,027,444, 3–27–62, Cl. 219—35.
Weeks, Walter R., to General Electric Co. Heat control system for cooking apparatus. 3,049,606, 8–14–62, Cl. 219—20.
Weese, Wilfred W., to Speakman Co. Thermally responsive valve mechanism. 3,032,058, 5–1–62, Cl. 137—468.
Wefco, Inc.: *See*—
Winslow, Willis M. 3,047,507.
Wefel, Walter G.: *See*—
Molsberry, Mahlon V., Wefel, and Walker. 3,044,440.
Wegener, Edward F. and T. H.. Towing devices. 3,019,033. 1–30–62, Cl. 280—482.
Wegener, Horst A. R., to Tung-Sol Electric Inc. Field effect transistor. 3,025,438, 3–13–62, Cl. 317—235.
Wegener, Richard H., to Brooks Foods, Inc. Method and apparatus for packaging foodstuffs. 3,026,791, 3–27–62, Cl. 99—356.
Wegener, Thure H.: *See*—
Wegener, Edward F. and T. H. 3,019,033.
Wegerich, Anton: *See*—
Poehler, Guenter, and Wegerich. 3,027,410.
Weglarz, Stanley V.: *See*—
Drostan, Fred W., Weglarz, and Robinson. 3,058,841.
Weglarz, Walter P., to The Budd Co. Spark machining electrodes and method of making the same. 3,035,151, 5–15–62, Cl. 219—69.
Wegler, Richard: *See*—
Kuhle, Engelbert, Schafer, Eue, and Wegler. 3,063,823.
Malz, Hugo, Wegler, and Unterstenhofer. 3,058,879.
Sasse, Klaus, Wegler, and Unterstenhöfer. 3,029,237.
Sasse, Klaus, Wegler, and Unterstenhöfer. 3,040,046.
Sasse, Klaus, Wegler, Unterstenhöfer, and Grewe. 3,029,238.
Wegley, Earle J.: *See*—
Wegley, James E. and E. J., and Calhoun. 3,023,933.
Wegley, James E. and E. J., and J. T. Calhoun, to Jim-Jak Industries, Inc. Liquid dispensing apparatus. 3,023,933, 3–6–62, Cl. 222—70.
Wegmann, Jacques, to Ciba Corp. Process for dyeing polyhydroxylated materials and preparations therefor. 3,043,-649, 7–10–62, Cl. 8—54.2.

Wegmann, Jacques, and C. Becker, to Ciba Co., Inc. Process for the manufacture of dyed structures from regenerated cuprammonium cellulose. 3,020,166, 2–6–62, Cl. 106—167.

Wegmann, Jacques, and J. Renggli, to Ciba Corp. Process for dyeing cellulose with reactive dyestuffs. 3,043,650, 7–10–62, Cl. 8—54.2.

Wegmann, Ludwig, to Demag Aktiengesellschaft. Automatically operable articulated coupling means between the rolls of a rolling mill and their drive spindle means. 3,020,735, 2–13–62, Cl. 64—8.

Wegmuller, Hans, to Schiess Aktiengesellschaft. Apparatus for setting up machine tools to produce accurate large diameter workpieces and for measuring such diameters. 3,043,011. 7–10–62, Cl. 33—125.

Wegner, Christian, K. Hess, and H. Haberland, to Farbenfabriken Bayer Aktiengesellschaft. Process for the continuous production of propylene oxide. 3,026,333, 3–20–62, Cl. 260—348.5.

Wegner, Herman E.: *See*—
Dean, Ralph K., Slatkovski, and Wegner. 3,015,135.

Wegner, Udo, and H. Lindemann, to Th. Calow & Co. Pipe straightening machine. 3,054,438, 9–18–62, Cl. 153—32.

Wehde, Heinrich, H.-G. Lange, G. Fischer, and M. Spreng, to Telefunken G.m.b.H. Tape recorder drive. 3,051,406, 8–28–62, Cl. 242—55.12.

Wehlann, Gerald E.: *See*—
Baugh, Charles W., and Wehlann. 3,029,665.
Brimyer, Harold G., and Wehlann. 3,025,730.

Wehling, Georg, to Askania-Werke A.G. Photo-electric sight adjusting device. 3,055,260, 9–25–62, Cl. 88—14.

Wehner, Albert, to Brueckenbau Flender G.m.b.H. Screen for use in oscillating screening devices. 3,023,904, 3–6–62, Cl. 209—396.

Wehner, Albert Pervious surface. 3,064,812, 11–20–62, Cl. 209—396.

Wehner, Donald C.: *See*—
White, Malcolm L., and Wehner. 3,046,201.

Wehner, Gottfried, to General Mills, Inc. Growth of solid layers on substrates which are kept under ion bombardment before and during deposition. 3,021,271, 2–12–62, Cl. 204—192.

Wehner, William C., to Moto-Mower, Inc. Engine starter. 3,063,436, 11–13–62, Cl. 123—179.

Wehner, William C., to Moto-Mower, Inc. Engine starter. 3,063,437, 11–13–62, Cl. 123—179.

Wehr, Georg: *See*—
Dix, Willy, and Wehr. 3,061,386.

Wehr, Robert D., to Anderson Bros. Mfg. Co. Apparatus for extracting juice from citrus fruits. Re. 25,228, 8–21–62, Cl. 100—97.

Wehring, Bernard A.: *See*—
Smith, Charles J., Read, and Wehring. 3,016,049.

Wehring, Elwood, and A. A. Dula, to Atlas Bradford Co. Packed pin and box drill pipe coupling with means preventing extrusion of packing ring. 3,047,316, 7–31–62, Cl. 285—334.

Wehrli, Federico. Device for the treatment of blood or the like. 3,043,982, 7–10–62, Cl. 313—220.

Wehrli, Hans. Adjustable heaters. 3,034,497, 5–15–62, Cl. 126—261.

Wehrli, Walte: *See*—
Demagistri, Albert, Ischer, and Wehrli. 3,030,351.
Demagistri, Albert, Ischer, and Wehrli. 3,033,846.
Merian, Ernest, Nicolaus, and Wehrli. 3,027,220.
Merian, Ernest, Senn, and Wehrli. 3,050,516.

Wei, Hsin H., to Westinghouse Electric Corp. Transistor amplifier with a multi-section electrolytic capacitor. 3,018,447, 1–23–62, Cl. 330—22.

Wei, Hsin H., to Westinghouse Electric Corp. Reflex transistor amplifier. 3,054,955, 9–18–62, Cl. 325—319.

Wei, Ling, to Colgate-Palmolive Co. Cosmetic preparation and process for manufacture thereof. 3,060,096, 10–23–62, Cl. 167—90.

Weibel, Herman, to The Ridge Tool Co. Pipe cutter and thrust bearing therefor. 3,031,237, 4–24–62, Cl. 308—163.

Weibel, Herman, to The Ridge Tool Co. Adjustable centering workholder. 3,049,737, 8–21–62, Cl. 10—107.

Weibel, John, Jr., and R. N. Mantey, to General Motors Corp. Refrigerating apparatus. 3,044,682, 7–17–62, Cl. 230—58.

Weible, George A., to Industrial Electronics Inc. Electronic door opening device. 3,039,038, 6–12–62, Cl. 318—478.

Weichman, Roger L.: *See*—
Fierce, William L., Sandner, and Weichman. 3,037,036.
Fierce, William L., Sandner, and Weichman. 3,037,055.

Weichsel, Helmut: *See*—
Zirm, Konrad L., and Weichsel. 3,057,856.

Weichselbaum, Edwin G., to Brunswick Corp. Protective containers for holding microscope slides and similar fragile devices. 3,063,549, 11–13–62, Cl. 206—1.

Weichselbaum, Theodore E., to Brunswick Corp. Sample space adjusters for spectrophotometers and the like. 3,027,799, 4–3–62, Cl. 88—14.

Weickgenannt, Egon R., to Ritter Co., Inc. Anesthetic screen for surgery table. 3,041,123, 6–26–62, Cl. 311—10.

Weickgenannt, Egon R., and G. E. Martin, to Ritter Co., Inc. Surgical table. 3,041,119, 6–26–62, Cl. 311—7.

Weickgenannt, Egon R., and A. Comper; said Weickgenannt assor. to Ritter Co., Inc. Surgical table. 3,041,122, 6–26–62, Cl. 311—7.

Weida, Robert L., and E. Wolf, to Curtiss-Wright Corp. Information locating apparatus. 3,042,902, 7–3–62, Cl. 340—172.5.

Weideman, Bernard A., and J. J. Groff, to Globe-Union Inc. Casting machine. 3,041,687, 7–3–62, Cl. 22—79.

Weidemann, Hans F. H. Combined flasher arrangement for controlling low and high tension circuits of an electric installation for drawing and writing neon signs. 3,036,179, 5–22–62, Cl. 200—118.

Weiden, Hans: *See*—
Vogt, Wilhelm, Weiden, Gehrmann, and Sennewald. 3,015,677.

Weidenhammer, James A.: *See*—
Edminster, Robert E., Fritz, Furr, Valehrach, and Weidenhammer. 3,039,682.

Weidenhammer, James A., to International Business Machines Corp. Sheet aligning apparatus. 3,015,486, 1–2–62, Cl. 271—58.

Weidenhammer, James A., to International Business Machines Corp. Tape feed mechanism. 3,057,569, 10–9–62, Cl. 242—55.12.

Weidenhammer, James A., E. J. Wroblewski, N. Watkins, S. J. Culveyhouse, and L. Serenate, to International Business Machines Corp. Document inscribing machine. 3,034,782. 5–15–62, Cl. 271—3.

Weidenhammer, James A., and W. S. Buslik, to International Business Machines Corp. Tape feed mechanism. 3,057,568, 10–9–62, Cl. 242—55.12.

Weidenhaupt, Franz: *See*—
Steinkemper, Bernhard, Weidenhaupt, and Bongartz. 3,048,922.

Weidenheimer, Joseph F.: *See*—
Sieger, George M., Jr., and Weidenheimer. 3,053,892.

Weidenheimer, Joseph F., and L. J. Leeson, to American Cyanamid Co. 21-heterocyclicoxy-16α,17α-alkylidenedioxy pregnanes and pregnadienes. 3,027,366, 3–27–62, Cl. 260—239.55.

Weidinger, Hans, and J. Kranz, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of 1,3,4-oxdiazoles. 3,065,238. 11–20–62, Cl. 260—296.

Weidmaier, Vernon C., and S. J. Nicolino, Football training device. 3,044,776, 7–17–62, Cl. 273—55.

Weidman, William H., to Harris-Intertype Corp. Sheet feeding and registering mechanism. 3,022,068, 2–20–62, Cl. 271—55.

Weidman, William H., to Harris-Intertype Corp. Delivery for printing press. 3,053,532, 9–11–62, Cl. 271—64.

Weidner, Ralph J., to International Business Machines Corp. Digital to analogue conversion servosystem. 3,039,030. 6–12–62, Cl. 318—28.

Weidner, Ralph J., to International Business Machines Corp. Transistorized amplifier. 3,040,264, 6–19–62, Cl. 330—25.

Weien, Paul, ½ to L. X. Garfunkel. Molding machine. 3,060,493, 10–30–62, Cl. 17—32.

Weigand, Charles G., to Fidelitone, Inc. Automatic grinding and polishing machine. 3,037,330, 6–5–62, Cl. 51—50.

Weigel, John E.: *See*—
Frankenfield, Bruce E., Malzahn, and Weigel. 3,026,452.

Weigert, Wilhelm, to Robert Bosch G.m.b.H. Gear pumps and like hydraulic machines. 3,053,191, 9–11–62, Cl. 103—126.

Weighart, Fred G., to Sperry Products, Inc. Amplifier gain compensator for variable ultrasonic signal response. 3 033,029. 5–8–62, Cl. 73—67.8.

Weighton, Donald, to Pye Ltd. Electronic counting circuits. 3,054,021, 9–11–62, Cl. 315—84.5.

Weigl, William: *See*—
Wojciechowski, Walter J., and Weigl. 3,038,405.

Weigl, William. Vehicle safety signal. 3,037,188, 5–29–62, Cl. 340—91.

Weihe, Adolf: *See*—
Rink, Karlheiz, and Weihe. 3,059,023.

Weihe, Elsbeth: *See*—
Rink, Karlheinz, and Weihe. 3,059,023.

Weikal, Stanley E.: *See*—
Hawkins, Thane E., and Weikal. 3,059,351.

Weikart, John, and R. L. Betts, to Esso Research and Engineering Co. Recovery of hydrocarbons from spent caustic. 3,066,094, 11–27–62, Cl. 208—226.

Weil, Alfred H., Sr., and W. Minier. Post hole digger. 3,042,-440. 7–3–62, Cl. 294—50.9.

Weil, Bert, to Devonsheer Melba Corp. Transfer mechanism for bread slices and other items. 3,022,903, 2–27–62, Cl. 214—1.

Weil, Burt, and W. C. Cathey; said Cathey assor. to said Weil. Progressively collapsible cot. 3,057,655, 10–9–62, Cl. 296—20.

Weil, Edward D.: *See*—
Dorfman, Edwin, Weil, and Newcomer. 3,021,369.

Weil, Edward D., to Hooker Chemical Corp. Zinc phosphide pesticide. 3,029,182, 4–10–62, Cl. 167—14.

Weil, Edward D., to Hooker Chemical Corp. Pesticidal and fungicidal composition of matter. 3,037,907, 6–5–62, Cl. 167—30.

Weil, Edward D., to Hooker Chemical Corp. Method of controlling weeds employing a hexachlorocyclopentenone-mineral oil composition. 3,063,821, 11–13–62, Cl. 71—2.3.

Weil, Edward D., to Hooker Chemical Corp. Controlling plant growth with octachloropropane. 3,063,825, 11–13–62, Cl. 71—2.7.

Weil, Edward D., E. Dorfman, and J. S. Newcomer, to Hooker Chemical Corp. Herbicidal method employing octachlorocyclopentene. 3,029,137, 4–10–62, Cl. 71—2.3.

Weil, Edward D., E. Dorfman, and J. S. Newcomer, to Hooker Chemical Corp. Synergistic herbicidal composition. 3,048,-483, 8–7–62, Cl. 71—2.6.
Weil, Frits, to North American Philips Co., Inc. Semi-conductor devices. 3,015,760, 1–2–62, Cl. 317—234.
Weil, John P.: *See*—
Murphy, Roy E., Jr., and Weil. 3,038,449.
Weil, Louis: *See*—
Lacaze, Albert, and Weil. 3,039,275.
Weil, Mack W. Closure timing arrangement. 3,017,763, 1–23–62, Cl. 70—269.
Weil, Robert N. Line holder. 3,051,116, 8–28–62, Cl. 114—199.
Weil, Verne R. Shoe size measuring device. 3,057,070, 10–9–62, Cl. 33—3.
Weil, Walter M.: *See*—
Schaefer, James C., and Schmidt. 3,028,233.
Weiland, Henry J., to Hercules Powder Co. Method and apparatus for prilling fertilizer compositions. 3,048,887, 8–14–62, Cl. 18—2.7.
Weiland, Henry J., to Hercules Powder Co. Prilled nitrogenous composition. 3,049,420, 8–14–62, Cl. 71—64.
Weiland, Richard H., to Boeing Airplane Co. Cargo airplanes. 3,055,620, 9–25–62, Cl. 244—135.
Weiland, Richard H., and D. W. Kelton, to Boeing Airplane Co. Overhead cargo handling mechanism for swingtail airplanes. 3,051,419, 8–28–62, Cl. 244—137.
Weill, Camille: *See*—
Benmussa, Henri, Le Corre, and Weill. 3,056,038.
Weill, Henry, and P. Boutelant, to Compagnie Generale d'Electricite. Device for measuring the Q-factor of resonant cavities. 3,061,778, 10–30–62, Cl. 324—58.
Weills, Ved D., to Repcor Inc. Liquid dispersion and vaporization unit. 3,023,837, 3–6–62, Cl. 183—24.
Weilmuenster, Earl A.: *See*—
Altwicker, Elmar R., Garrett, Weilmuenster, and Harris. 3,038,012.
Altwicker, Elmar R., Garrett, Weilmuenster, and Harris. 3,052,725.
Weimer, Charles L.: *See*—
Gamble, Dennis H., and Weimer. 3,042,890.
Weimer, Karl H. Collapsible multi-purpose stand. 3,057,591, 10–9–62, Cl. 248—166.
Weiner, Paul K., to Radio Corp. of America. Photoconductive devices. 3,026,416, 3–20–62, Cl. 250—211.
Weinandy, Paul R., to Cooper Tire & Rubber Co. Method for forming corrugated tubing. 3,015,857, 1–9–62, Cl. 18—56.
Weinberg, Alan E., C. T. Bean, P. Robitschek, and B. O. Schoepfle, to Hooker Chemical Corp. Protective coatings for polyester resins. 3,051,585, 8–28–62, Cl. 117—33.3.
Weinberg, Alvin M.: *See*—
Wigner, Eugene P., Ohlinger, Young, and Weinberg. 3,052,613.
Weinberg, Daniel I., to Astra, Inc. Respiration measuring apparatus and method. 3,026,868, 3–27–62, Cl. 128—2.08.
Weinberg, Elliot K.: *See*—
Corbett, Albert D., Jr., Weinberg, and Goalwin. 3,064,-137.
Weinberg, Jerome: *See*—
Hechler, Valentine, IV, and Weinberg. 3,035,550.
Weinberg, Joseph W., to Bausch & Lomb Inc. Lens mold and apparatus. 3,056,166, 10–2–62, Cl. 18—39.
Weinberg, Kurt: *See*—
Shoiro, Seymour L., Freedman, and Weinberg. 3,056,-797.
Weinberg, Morton, to Motorola, Inc. Frequency modulator including voltage sensitive capacitors for changing the effective capacitance and inductance of an oscillator circuit. 3,068,427, 12–11–62, Cl. 332—30.
Weinberg, Murray: *See*—
Fleming, Howard M., Jr., Gardoff, La Manna, and Weinberg. 3,039,691.
Weinberg, Norbert: *See*—
Gallagher, Gerald T., and Weinberg. 3,026,166.
Weinberger, Jan V., and A. G. Luisada, to Gentex Corp. Shield for ionizing radiation. 3,065,351, 11–20–62, Cl. 250—108.
Weinbrenner, Erwin: *See*—
Breer, Karl, and Weinbrenner. 3,056,661.
Hoope, Peter, Paffrath, Weinbrenner, and Breer. 3,052,-927.
Weinbrenner, Erwin, P. Hoppe, and K. Breer, ½ to Bayer. Aktiengesellschaft, Farbenfabriken, and ½ to Mobay Chemical Co. Mixing apparatus. 3,031,271, 4–24–62, Cl. 23—252.
Weinbrenner, Erwin, W. Tischbein, P. Hoppe, and F. Brochhagen, ½ to Farbenfabriken Bayer Aktiengesellschaft, and ½ to Mobay Chemical Co. Process for compressing cellular polyurethane plastic. 3,050,432, 8–21–62, Cl. 156—196.
Weinbrenner, Erwin, P. Hoppe, and K. Breer, to Farbenfabriken Bayer Aktiengesellschaft. Apparatus for producing fluid mixtures. 3,063,813, 11–13–62, Cl. 23—252.
Weinecke, Laurence A., to United States of America, Agriculture. Corn degermination pretreatment. 3,031,305, 4–24–62, Cl. 99—80.
Weiner, Al. Bearing washer. 3,059,654, 10–23–62, Cl. 134—116.
Weiner, David. Dispenser for dental alloys and mercury. 3,040,934, 6–26–62, Cl. 222—137.
Weiner, Earl R.: *See*—
Aymar, Robert H., and Weiner. 3,060,581.
Aymar, Robert H., and Weiner. 3,067,765.
Weiner, Harvey H.: *See*—
Flynn, Joseph A., and Weiner. 3,032,713.
Weiner, Louis I., to United States of America, Army. Pocket-size tester for yarn, threads and the like. 3,049,916, 8–21–62, Cl. 73—95.
Weiner, Louis I., and H. H. Brandt, to United States of America, Army. Parachute fabric containing stretch and non-stretch type ripstops. 3,032,072, 5–1–62, Cl. 139—422.
Weinfurt, William J., to McGraw-Edison Co. Fluid means for polyphase operation of single phase reclosers. 3,030,-467, 4–17–62, Cl. 200—81.4.
Weinfurt, William J., to McGraw-Edison Co. Polyphase circuit interrupters. 3,043,933, 7–10–62, Cl. 200—97.
Weingart, Charles A. Shower head and curtain rod assembly. 3,045,251, 7–24–62, Cl. 4—154.
Weingart, Richard I. N.: *See*—
Heisel, Reuben H., and Weingart. 3,034,714.
Weingart, Richard I. N. Apparatus for the retention of evidence of telephone conversations. 3,045,068, 7–17–62, Cl. 179—6.
Weingart, Richard I. N., to Universal Controls, Inc. Paper money vending mechanism. 3,064,785, 11–20–62, Cl. 194—4.
Weingarten, Harold I., to Monsanto Chemical Co. Liquid dielectric compositions, method of preparation and use thereof. 3,038,107, 6–5–62, Cl. 317—258.
Weingarten, Harold I., to Monsanto Chemical Co. Isomerization of chlorobiphenyls. 3,065,297, 12–11–62, Cl. 260—649.
Weingarten, John G., Inc.: *See*—
Mutolese, Michael. 3,052,388.
Mutolese, Michael. 3,052,389.
Weingartner, Gerald A., to Standard Mirror Co., Inc. Rear visor assembly. 3,064,536, 11–20–62, Cl. 88—98.
Weingartner, Gerald A., to Hirschman-Pohle Co., Inc. Structural curb. 3,065,572, 11–27–62, Cl. 50—47.
Weinger, Irving I. Universal orthodontic bracket hook. 3,054,185, 9–18–62, Cl. 32—14.
Weinhardt, Robert A., and P. T. Barnes, to United States of America, Navy. Contact bands for rockets. 3,016,588, 1–16–62. Cl. 22—203.
Weinig, Robert F.: *See*—
Forss, Fritz V., and Weinig. 3,070,705.
Weinman Pump & Supply Co., The: *See*—
Wagner, Edgar C. 3,055,448.
Weinmann, Otto. Connecting elements for assembling horizontal and vertical ladder sections to form a scaffold. 3,053,356, 9–11–62, Cl. 189—36.
Weinreich, Charles F.: *See*—
Maurissaricice, Dennis T., and Weinreich. 3,038,809.
Weinrich, Hellmut, H. W. Muller, and J. Peltner, to Voith-Getriebe, K.G. Transmission brake system. 3,023,639, 3–6–62, Cl. 74—688.
Weinrotter, Ferdinand: *See*—
Schmidt, Alfred, and Weinrotter. 3,034,853.
Weinschel, Bruno O., to Weinschel Engineering Co., Inc. Voltage ratio meter for high-frequency calibration systems. 3,034,045, 5–8–62, Cl. 324—58.
Weinschel Engineering Co., Inc.: *See*—
Sorger, Gunther U., and Raff. 3,047,803.
Weinschel, Bruno O. 3,034,045.
Weinschenk, Albert, to Eugen G. Henkel, K.G. Pulling over device for shoes, particularly for a toe lasting machine. 3,025,541, 3–20–62, Cl. 12—10.1.
Weinschenk, Albert, to Eugen G. Henkel, K.G. Device for pulling-over and wiping-in the uppers of shoes. 3,039,121, 6–19–62, Cl. 12—10.1.
Weinstein, Abraham: *See*—
Weinstein, Morris, L. K., and A. B. 3,052,983.
Weinstein, Donald A., to Prestole Corp. Machine for making a staple fastening belt. 3,020,630, 2–13–62, Cl. 29—211.
Weinstein, Gerald: *See*—
Glaser, Raymond A., Strauss, and Weinstein. 3,062,057.
Weinstein, Lenore K.: *See*—
Weinstein, Morris, L. K., and A. B. 3,052,983.
Weinstein, Morris, L. K., Katz, and A. B. Weinstein. 3,052,982.
Weinstein, Morris, deceased (by L. K. Weinstein, administratrix), S. Katz, and A. B. Weinstein. Fused porcelain-to-metal teeth. 3,052,982, 9–11–62, Cl. 32—8.
Weinstein, Morris, deceased (by L. K. Weinstein, administratrix), and A. B. Weinstein, to Permadent Mfg. Corp. Porcelain covered metal-reinforced teeth. 3,052,983, 9–11–62, Cl. 32—12.
Weinstein, Myron, to General Electric Co. Cross-field electric discharge devices. 3,020,445, 2–6–62, Cl. 315—39.63.
Weinstein, Norman. Apparatus for continuously conditioning air. 3,028,734, 4–10–62, Cl. 62—140.
Weinstock, Joseph: *See*—
Chow, Alfred W., and Weinstock. 3,041,333.
Saggiomo, Andrew J., and Weinstock. 3,016,373.
Saggiomo, Andrew J., and Weinstock. 3,033,866.
Weinstock, Joseph, to Smith Kline & French Laboratories. Dialkylaminoalkylaminopteridine derivatives. 3,028,387, 4–3–62, Cl. 260—251.5.
Weinstock, Kermit V.: *See*—
Elmer, Otto C., and Weinstock. 3,028,353.
Weinstock, Leonard M.: *See*—
Carmack, Marvin, and Weinstock. 3,060,187.
Carmack, Marvin, and Weinstock. 3,066,147.
Kollonitsch, Janos, and Weinstock. 3,053,835.
Weinstock, Leonard M., to Merck & Co., Inc. 3-enol ether of 3-keto-$\Delta^{1,4}$-steroids. 3,068,253, 12–11–62, Cl. 260—397.45.

Weinstock, Manuel, to United States of America, Army. Servovalve controlled mechanism. 3,032,015, 5–1–62, Cl. 121—41.

Weinstock, Manuel, and R. C. Sutter, to United States of America, Army. Rotary servo valve controlled mechanism. 3,020,885, 2–13–62, Cl. 121—38.

Weintraub, Murray, and E. D. Angell, to Milko Products, Inc. Method of packaging confectionery. 3,034,905, 5–15–62, Cl. 99—180.

Weipert, Eugene A.: *See*—
Levis, William W., Jr., Weipert, and Rubinstein. 3,051,751.

Weipert, Eugene A., to Wyandotte Chemicals Corp. Polymerization of 2-p-dioxanone with sulfuric acid. 3,020,289, 2–6–62, Cl. 260—340.2.

Weir, Beverley A.: *See*—
Weir, Gordon E. 3,034,873.

Weir, Charles M.: *See*—
Largen, Harold F., and Weir. 3,026,662.

Weir, Donald A.: *See*—
Wright, Esmond P. G., Weir, Hinton, and Dzula. 3,025,341.

Weir, Fred E.: *See*—
Gordon, Benjamin E., and Weir. 3,041,282.

Weir, Gordon E., deceased: by B. A. Weir, executrix. Fuel package. 3,034,873, 5–15–62, Cl. 44—40.

Weir, James V., and A. J. Robinson, to Minerals & Chemicals Philipp Corp. Activation of clay by acid treatment, oil aging and calcination. 3,033,798, 5–8–62, Cl. 252—450.

Weir, John: *See*—
Smith, Thomas W., and Weir. 3,066,892.

Weir, Mary T.: *See*—
Freestone, Roland, and Weir. 3,054,709.

Weir, Ralph. Reproduction of color drawings, film transparencies and photographs. 3,022,164, 2–20–62, Cl. 96—30.

Weir, Robert H.: *See*—
Glogau, Richard C., and Weir. 3,052,711.

Weir, Robert J.: *See*—
Spoor, Herbert J., and Weir. 3,035,972.

Weir, Thomas J., to Schultzer Corp. Air sensing fan drive. 3,053,363, 9–11–62, Cl. 192—58.

Weir, Vernon J.: *See*—
Canarios, Chrysosthenis M., Weir, and Lerner. 3,030,334.

Weir, Willard H. Workpiece holding apparatus. 3,017,169, 1–16–62, Cl. 266—5.

Weis, Charles W.: *See*—
Powers, Richard E., and Weis. 3,026,849.

Weis, Claus D., to E. I. du Pont de Nemours and Co. Tetracyanofuran. 3,060,198, 10–23–62, Cl. 260—346.1.

Weis, Frank G., to Union Tank Car Co. Check valve with pneumatic assisting means for positive closing. 3,052,260, 9–4–62, Cl. 137—565.

Weis, Joseph H.: *See*—
Stratton, William G., and Weis. 3,028,660.

Weisang, Edouard, and A. Valet, to Compagnie Francaise de Raffinage. Process for the oxidation of mercaptans. 3,038,855, 6–12–62, Cl. 208—203.

Weisbach, Lawrence. Molding toy. 3,061,880, 11–6–62, Cl. 18—34.

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Weisberg, Allen M. Remote home mail and newspaper delivery system. 3,066,616, 12–4–62, Cl. 104—172.

Weisberg, Leonard R.: *See*—
Rosi, Fred D., and Weisberg. 3,019,092.

Weisberg, Mark: *See*—
Singer, John J., Jr., and Weisberg. 3,061,628.

Weise, Dominikus, to Perpetuum-Ebner, Fabrik für Feinmechanik und Elektrotechnik Steidinger & Co. Kommanditgesellschaft. Record players. 3,042,411, 7–3–62, Cl. 274—14.

Weisel, Zenas V., to Borg-Warner Corp. Indicating device. 3,033,154, 5–8–62, Cl. 116—67.

Weise, Johannes, and W. Hahn, to Kamera- und Kinowerke Dresden, VEB. Photographic camera with cocking by electric motor. 3,057,280, 10–9–62, Cl. 95—64.

Weise, Richard C.: *See*—
Hoberg, George G., Mott, Van Andel, and Weise. 3,053,449.

Weisel, Donald J.: *See*—
Figlio, Joseph T., and Weisel. 3,039,515.

Weisenborn, Frank L.: *See*—
Sih, Charles J., and Weisenborn. 3,065,146.

Weisenborn, Frank L., to Olin Mathieson Chemical Corp. Process of synthesis of steroids and compounds thereof. 3,040,091, 6–19–62, Cl. 260—488.

Weisenborn, Frank L., and S. C. Pan, to Olin Mathieson Chemical Corp. Yohimbine and a-yohimbine derivatives. 3,022,311, 2–20–62, Cl. 260—287.

Weisenborn, Frank L., and A. I. Laskin, to Olin Mathieson Chemical Corp. Steroids. 3,031,494, 4–24–62, Cl. 260—488.

Weisenborn, Frank L., and C. J. Sih, to Olin Mathieson Chemical Corp. 9a-hydroxy-A-norprogesterone. 3,056,838, 10–2–62, Cl. 260—586.

Weisend, Charles R., to Herrick L. Johnston, Inc. Device for measurement of liquid level or volume of liquefied gases. 3,031,887, 5–1–62, Cl. 73—295.

Weiser, Herbert H. O. Means of presenting gas pressure to a surface. 3,058,519, 10–16–62, Cl. 162—297.

Weiser, Robert E.: *See*—
Dent, Eugene, and Weiser. 3,037,742.

Weisert, Edward D.: *See*—
Wlodek, Stanley T., Weisert, and Moanfeldt. 3,028,236.

Weisert, Edward D., and S. T. Wlodek, to Union Carbide Corp. Columbium base alloy. 3,037,858, 6–5–62, Cl. 75—174.

Weisgerber, Cyrus A.: *See*—
Harris, George C., and Weisgerber. 3,070,452.

Weisglass, Louis: *See*—
Hollman, Henry, and Weisglass. 3,045,118.
Simmon, Alfred, and Weisglass. 3,069,971.

Weishaupt, Josef: *See*—
Karwat, Ernst, Weishaupt, and Oberpriller. 3,050,950.

Weisman, Lloyd: *See*—
Sarzin, Julius L., Teltscher, Steinberg, and Weisman. 3,025,470.

Weisman, Paul, and J. C. Carroll, to Westinghouse Electric Corp. Transistor switch for saturating transformer. 3,026,468, 3–20–62, Cl. 321—11.

Weismann, Peter H.: *See*—
Bier, David, and Weismann. 3,037,114.

Weismantel, Elmer E.: *See*—
Jones, James B., De Prisco, and Weismantel. 3,039,333.
Jones, James B., and Weismantel. 3,038,359.

Weiss, Anton G.: *See*—
Amico, John L., and Weiss. 3,032,406.

Weiss, Barry L. Collapsible clothes rack. 3,035,709, 5–22–62, Cl. 211—93.

Weiss, Cornelius F., Jr., and A. B. Benson, to International Business Machines Corp. Master timer. 3,070,780, 12–25–62, Cl. 340—172.5.

Weiss, Dewey S. Quick action jack. 3,022,043, 2–20–62, Cl. 254—98.

Weiss, Donald H.: *See*—
Brown, Joseph L., Layden, Taylor, and Weiss. 3,043,509.

Weiss, Ernst, to Heberlein Patent Corp. Process for producing stern effects on extensible textile fabric; and products therefrom. 3,058,192, 10–16–62, Cl. 28—74.

Weiss, Ernst, and R. A. Prokesch, to Heberlein Patent Corp. Method and apparatus for texturing yarns. 3,053,038, 9–11–62, Cl. 57—34.

Weiss, Erwin, to Beltone Hearing Aid Co. Electroacoustic transducers. 3,019,304, 1–30–62, Cl. 179—114.

Weiss, Erwin M., to Beltone Hearing Aid Co. Transducer suspension. 3,019,306, 1–30–62, Cl. 179—146.

Weiss, Erwin M., to Beltone Hearing Aid Co. Artificial mastoid. 3,019,307, 1–30–62, Cl. 179—175.1.

Weiss, Erwin M., to Beltone Hearing Aid Co. Transducer suspension system. 3,048,668, 8–7–62, Cl. 179—179.

Weiss, Francis: *See*—
Lichtenberger, Robert, and Weiss. 3,068,290.

Weiss, George: *See*—
Rubin, Sidney, and Weiss. 3,063,117.

Weiss, Gerhart, to American Thermocatalytic Corp. Arrangement of thermocatalytic heating elements. 3,063,493, 11–13–62, Cl. 158—99.

Weiss, Irving F., to ECP Corp. Test circuit for an indicator system. 3,040,243, 6–19–62, Cl. 324—20.

Weiss, Jerald A.: *See*—
Poole, Kenneth M., Tien, and Weiss. 3,044,021.

Weiss, Loren F.: *See*—
Whitman, Edwin J., and Weiss. 3,048,924.

Weiss, Mark W.: *See*—
Van Lark, William, Weiss, and Mowitz. 3,057,692.

Weiss, Martin J.: *See*—
Allen, George R., Marx, and Weiss. 3,021,347.
Holmlund, Chester E., Feldman, Kissman, and Weiss. 3,047,569.
Kissman, Henry M., Hoffman, and Weiss. 3,035,051.
Kissman, Henry M., Hoffman, and Weiss. 3,047,568.
Schauz, Robert E., and Weiss. 3,022,323.

Weiss, Martin J., J. F. Poletto, and H. M. Kissman, to American Cyanamid Co. Steroid ketals of the pregnane series. 3,069,417, 12–18–62, Cl. 260—239.55.

Weiss, Marvin: *See*—
Tucker, Arthur R., and Weiss. 3,060,596.

Weiss, Marvin D.: *See*—
Rogers, Louis J., and Weiss. 3,026,502.

Weiss, Max T.: *See*—
Kompfner, Rudolf, and Weiss. 3,041,559.

Weiss, Max T., to Bell Telephone Laboratories, Inc. Ferromagnetic parametric microwave amplifier. 3,022,466, 2–20–62, Cl. 330—56.

Weiss, Max T., to Bell Telephone Laboratories, Inc. Gyromagnetic harmonic generator. 3,054,042, 9–11–62, Cl. 321—69.

Weiss, Max T., to Bell Telephone Laboratories, Inc. Enhanced gyromagnetic effect in nonreciprocal wave transmission. 3,063,028, 11–6–62, Cl. 333—24.

Weiss, Merle: *See*—
Allured, Robert B., and Weiss. 3,047,767.

Weiss, Morris, to Barnes Engineering Co. Radiometers with linearized final output. 3,039,006, 6–12–62, Cl. 250—233.

Weiss, Mortimer E.: *See*—
Feinstein, Lester, and Weiss. 3,041,493.

Weiss, Nathan M., and P. E. Saurenman; said Weiss assor. to Saurenman Co., Inc. Corrugated nail stick. 3,032,767, 5–8–62, Cl. 1—56.

Weiss, Paul: *See*—
Small, Samuel N. 3,046,701.

Weiss, Phil H., to Paramount Pictures Corp. Secrecy system. 3,054,857, 9–18–62, Cl. 179—1.5.

Weiss, Raphael, to Allgauer Maschinenbau G.m.b.H. Automatic knock-off device for textile spinning machines. 3,019,587, 2–6–62, Cl. 57—84.

Weiss, Robert, to Hans Bodmer A.-G. Universally swivelable spraying device. 3,058,667, 10–16–62, Cl. 239—227.

Weiss, Saul G. Articulator. 3,018,551, 1–30–62, Cl. 32—32.

Weiss, Shirley L., to Trans-Sil Corp. Filament bar casing and method of making same. Re. 25,161, 4–17–62, Cl. 317—234.

Weiss, Walter J., to Texaco Inc. Drilling fluid. 3,034,984, 5–15–62, Cl. 252—8.5.

Weiss, Walter W., to Fedders Corp. Defrost means for air conditioning apparatus. 3,064,443, 11–20–62, Cl. 62—156.

Weiss, William, and H. G. Geneste, to Rotary Hospital Equipment Corp. Washing machine, particularly for surgical gloves. 3,064,666, 11–20–62, Cl. 134—182.

Weissberg, Stanley K.: *See*—
Bennett, William E., Nooteboom, and Weissberg. 3,053,099.

Weissberger, Arnold, A. Loria, and I. F. Salminen, to Eastman Kodak Co. Photographic emulsion containing pyrazolone magenta-forming couplers. 3,062,653, 11–6–62, Cl. 96—100.

Weissborn, Frederick W., Jr.: *See*—
Driffield, Melvin E., and Weissborn. 3,024,771.

Weisse, Guenter K.: *See*—
Thomas, Robert M., and Weisse. 3,020,316.

Weisse, Guenter K., and B. F. Dannels, to Olin Mathieson Chemical Corp. Preparation of dihydrazides of dicarboxylic acids. 3,061,642, 10–30–62, Cl. 260—561.

Weissenbach, Alfred. Shoe polishing device. 3,067,449, 12–11–62, Cl. 15—530.

Weisser, Karl: *See*—
Kahn, David, and Weisser. 3,056,194.

Weissermel, Klaus, and M. Lederer, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Peroxides and a process for their manufacture. 3,030,386, 4–17–62, Cl. 260—345.9.

Weissermel, Klaus, and M. Lederer, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for preparing peroxides. 3,054,826, 9–18–62, Cl. 260—9.

Weissfloch, Andreas, to Siemens & Halske Aktiengesellschaft. Method of and apparatus for making tensioned wire grid electrode. 3,042,992, 7–10–62, Cl. 29—25.14.

Weisshaar, Erich: *See*—
Pfau, Heinz Günther, and Weisshaar. 3,055,099.

Weissman, Eugene. Roofing repair patch. 3,049,836, 8–21–62, Cl. 50—243.

Weist, Darwin S.: *See*—
Kromer, Orlando W., and Weist. 3,031,211.

Weiswarm, Konrad, to United States of America, Air Force. Quick release mechanism for oxygen mask. 3,032,847, 5–8–62, Cl. 24—230.

Weisz, Paul B., to Socony Mobil Oil Co., Inc. Catalytic production of ethylene glycol. 3,028,434, 4–3–62, Cl. 260—635.

Weisz, Robert S., to Ampex Corp. Magnetically annealed ferrite material. 3,055,832, 9–25–62, Cl. 252—62.5.

Weitkamp, Alfred W., to Standard Oil Co. Separation of isothiocineole. 3,026,315, 3–20–62, Cl. 260—96.5.

Weitnauer, Gustavo A. Process for preparing 6-aminopenicillanic acid. 3,070,511, 12–25–62, Cl. 195—36.

Weitenhiller, Hellmuth, F. Bleger, H. Schoß, W. Herbert, O. Dorschner, and H.-W. Gross, to Metallgesellschaft Aktiengesellschaft. Process for the conversion of gas produced by pressure gasification. 3,069,250, 12–18–62, Cl. 48—197.

Weitz, Hans-Martin: *See*—
Kroeper, Hugo, Weitz, and Platz. 3,019,215.

Weitzel, Günther, to Wickhen Products, Inc. Method of increasing the water vapor porosity of fat materials. 3,035,987, 5–22–62, Cl. 167—90.

Weitzl, Alois: *See*—
Schätzschock, Adolf, and Weitzl. 3,016,600.

Weitzman, Morris. Shield for sanitary napkins. 3,070,096, 12–25–62, Cl. 128—287.

Weland, Robert N.: *See*—
Millo, James V., and Weland. 3,028,952.

Welanetz, Rudolph F., R. B. Johnston, and H. S. Morton to United States of America, Navy. Simulator. 3,034,351, 5–15–62, Cl. 73—167.

Welbaum, Donald D., and R. M. Birkenbeul, to Birkwel Research and Design Inc. Resilient punching die accessory to guide, stop or eject material. 3,019,683, 2–6–62, Cl. 83—129.

Wel-Bilt Products Co.: *See*—
Webb, Cleitus E., Sr., C. E. Webb, Jr., and R. J. Webb. 3,051,261.

Welborn, Don F.: *See*—
Sellner, John W., and Welborn. 3,045,667.

Welby, Brian G.: *See*—
Scarrott, Gordon G., and Welby. 3,044,593.

Welch, Albert B., to Fairchild Camera and Instrument Corp. Photoelectric unsharp-masking apparatus. 3,017,515, 1–16–62, Cl. 250—209.

Welch Allyn, Inc.: *See*—
Moore, William C. 3,038,466.
Moore, William C. 3,040,738.

Welch, Arthur J.: *See*—
Ferris, Ernest A., and Welch. 3,055,474.

Welch, Charles G., to Xzit Brickseal Co. Stop leak composition and process. 3,056,690, 10–2–62, Cl. 117—2.

Welch, Donald H., C. A. McKenzie, and R. F. Killey, to Polymer Corp., Ltd. Temperature control in low temperature polymerizations. 3,017,398, 1–16–62, Cl. 260—85.3.

Welch, Edwin J.: *See*—
Paynton, Harold G., Jr., and Welch. 3,036,309.

Welch, Elmer S., J. P. O'Meara, and J. S. Roberts, to Milwaukee Chaplet & Mfg. Co., Inc. Sanitary diaphragm valve. 3,038,488, 6–12–62, Cl. 137—219.

Welch, Elvin C., to Automation Development Corp. Rotor excited stepper motor. 3,025,445, 3–13–62, Cl. 318—444.

Welch, Elvin C., to Automation Development Corp. Rotor controlled stepper motor. 3,042,847, 7–3–62, Cl. 318—254.

Welch, Frank J., to Union Carbide Corp. Process for the production of graft copolymers comprising reacting (polystyryl) alkali metal compounds with resins containing certain reactive pendant groups. 3,029,221, 4–10–62, Cl. 260—45.5.

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Welch, Frank J., to Union Carbide Corp. Suspension polymerization of acrolein. 3,069,389, 12–18–62, Cl. 260—67.

Welch, Garrett A., III, to International Postal Supply Corp. Multi-channel document conveyor. 3,042,185, 7–3–62, Cl. 198—33.

Welch, Glenn. Combination rapid balance bridge and code generator. 3,032,752, 5–1–62, Cl. 340—204.

Welch, Henry E.: *See*—
Fox, Gerald B., Vandeveer, and Welch. 3,044,092.

Welch, Jack D.: *See*—
Kittrell, Richard L., Luik, and Welch. 3,038,089.

Welch, Jack D., to Collins Radio Co. Magnetic voltage reference. 3,036,262, 5–22–62, Cl. 323—48.

Welch, John A.: *See*—
Hiemmons, Charles O., and Welch. 3,033,558.

Welch, Lester M.: *See*—
Herndon, John W., and Welch. 3,070,641.

Welch, Lewis W.: *See*—
Welch, Lewis W., Millington, and Adler. 3,058,356.

Welch, Lewis W., and A. F. Millington, to Novi Equipment Co. Impact structure. 3,018,711, 1–30–62, Cl. 98—2.

Welch, Lewis W., A. F. Millington, and H. G. Adler, to L. W. Welch, trustee. Magnetic clutch structure. 3,058,356, 10–16–62, Cl. 74—1.5.

Welch, Max A.: *See*—
Heiss, Marvin L., and Welch. 3,030,080.

Welch, Nicholas A., to The American Hardware Corp. Deadbolt lock. 3,026,703, 3–27–62, Cl. 70—134.

Welch, Nicholas A., to The American Hardware Corp. Deadlocking latch unit for door locks. 3,029,096, 4–10–62, Cl. 292—336.

Welch, Nicholas A., to The American Hardware Corp. Door lock. 3,047,323, 7–31–62, Cl. 292—245.

Welch, Nicholas A., and C. K. Roberts, to C. K. Roberts. Pick resistant lock cylinder. 3,045,468, 7–24–62, Cl. 70—421.

Welch, Ralph C., to International Telephone and Telegraph Corp. Oscillatory apparatus. 3,031,878, 5–1–62, Cl. 73—1.

Welch, Robert B. Door holding device. 3,054,632, 9–18–62, Cl. 292—288.

Welch, Russell K., to General Motors Corp. Fluid filter element. 3,070,233, 12–25–62, Cl. 210—484.

Welch Scientific Co., The: *See*—
Szymczak, Eugene B. 3,067,649.
Szymczak, Eugene B., and Williams. 3,050,682.

Welch, Trevor W.: *See*—
Collis, Ronald T. H., Welch, and Cowlard. 3,041,604.

Welch, W. M., Mfg. Co.: *See*—
Batina, Jerome R., and Grosse. 3,028,561.

Welchman, W. Gordon, and H. M. Zeutschel, to Itek Corp. Data processing system. 3,042,199, 7–3–62, Cl. 209—73.

Welchman, William G.: *See*—
Anderson, Walter L., Smodey, and Welchman. 3,035,259.

Welchon, James K., to Phillips Petroleum Co. Automatic intermittent gas-lift of liquids. 3,070,033, 12–25–62, Cl. 103—232.

Welded Products Co.: *See*—
Booth, William M. 3,041,212.

Welded, Dean D., to Hercules Powder Co. Gas-producing device having obturating means protecting the chamber walls from combustion gases. 3,027,709, 4–3–62, Cl. 60—35.6.

Weldes, Friedrich: *See*—
Habernickel, Valentin, and Weldes. 3,024,085.

Welding Engineers, Inc.: *See*—
Fossiter, Paul H. 3,035,306.
Street, Louis F. 3,068,514.

Weldon, William M. Pry chain hoist. 3,041,041, 6–26–62, Cl. 254—105.

Weldon, Williams & Lick Inc.: *See*—
Glover, Campbell D. 3,053,161.

Weldotron Corp.: *See*—
Siegel, Martin, and Zelnick. 3,047,991.

Welford, Walter T.: *See*—
Harries, John H. O., and Welford. 3,053,144.

Welger, Gebruder: *See*—
Wenzel, Alfred. 3,018,718.
Wenzel, Alfred. 3,044,243.

Welk, Horace B., Jr.: *See*—
Guarino, Louis S. and Welk. 3,050,710.

Welkowitz, Walter: *See*—
Howatt, Glenn N., Dranetz, and Welkowitz. 3,040,301.

Welkowitz, Walter, to Gulton Industries, Inc. Ultrasonic transducer. 3,019,660, 2–6–62, Cl. 74—1.

Welkowitz, Walter, to Gulton Industries, Inc. Ultrasonic transducer and impedance matching device therefor. 3,019,661, 2–6–62, Cl. 74—1.

Welkowitz, Walter, to Gulton Industries, Inc. Ultrasonic flowmeter. 3,020,759, 2–13–62, Cl. 73—194.

Welkowitz, Walter, to Gulton Industries, Inc. Ultrasonic fluid density measuring system. 3,028,749, 4–10–62, Cl. 73—32.

Well Completions, Inc.: *See*—
Fearon, Robert E. 3,031,571.

Well Surveys, Inc.: *See*—
Bergan, Reuben A. 3,055,101.
Bergan, Reuben A., and Youmans. 3,024,407.
Broome, Marshall B., and Tucker. 3,044,175.
Camp, William A. 3,023,507.
Camp, William A. 3,058,227.
Fearon, Robert E., and Thayer. 3,019,337.
Hearn, Daniel P. 3,019,395.
Monaghan, Ralph. 3,019,341.
Monaghan, Ralph, Wilson, and Knapp. 3,019,338.
Peterson, Glen. 3,019,414.
Sykora, George E. 3,045,288.
Tucker, Robert L. 3,046,467.
Watson, Robert E. 3,060,326.
Youmans, Arthur H. 3,032,658.
Youmans, Arthur H. 3,038,075.
Youmans, Arthur H. 3,062,957.
Youmans, Arthur H., and Hubbard. 3,019,340.

Wellborn, Howell H. Lawn edging attachment. 3,019,585, 2–6–62, Cl. 56—25.4.

Wellborn, John M., and J. A. Kimm, to Whirlpool Corp. Refrigerant compressor. 3,015,222, 1–2–62, Cl. 62—505.

Wellcome Foundation, Ltd., The: *See*—
Phillips, Arthur P. 3,056,786.

Wellekens, John F. Torque valves. 3,016,839, 1–16–62, Cl. 103—41.

Weller, Arthur W., to Resina Automatic Machinery Co., Inc. Cap hopper. 3,043,416. 7–10–62. Cl. 198—33.

Weller, Arthur W., to Resina Automatic Machinery Co., Inc. Plug inserting device for open ended containers. 3,057,135, 10–9–62, Cl. 53—315.

Weller, Barton L., to Vitramon, Inc. Methods for installing terminal leads in composite electrical components and resulting products. 3,021,589, 2–20–62, Cl. 29—25.42.

Weller, Barton L., to Vitramon, Inc. Particle measuring instrument and method. 3,043,183, 7–10–62, Cl. 88—14.

Weller, Edward F., Jr.: *See*—
Chapman, Frederick W., Hanysz, Weller, and Martin. 3,022,451.
Diamond, Milton J., Schubring, and Weller. 3,029,943.
Hanysz, Eugene A., and Weller. 3,016,732.

Weller, Eli J. Traction device. 3,016,079, 1–9–62, Cl. 152—218.

Weller, Ernest E.: *See*—
Wagner, Herman B., and Weller. 3,050,493.

Weller, Erwin, to Alfred Gauthier G.m.b.H. Photographic camera. 3,060,826, 10–30–62, Cl. 95—64.

Weller, Hellmuth, to Daimler-Benz Aktiengesellschaft. Pneumatic spring system especially for motor vehicles. 3,064,995. 11–20–62, Cl. 280—124.

Weller, John J., to Standard Plastics, Inc. Shock absorber. 3,035,825, 5–22–62, Cl. 267—1.

Weller, Kurt, to F. Grohe. Wall valve. 3,026,898, 3–27–62, Cl. 137—359.

Weller, Royal. Guidance control for missile. 3,018,981, 1–30–62, Cl. 244—14.

Welles, Donald P., Jr., to Besly-Welles Corp. Method of forming threads by applying sliding pressure. 3,050,755, 8–28–62, Cl. 10—152.

Welles, Donald P., Jr., to Besly-Welles Corp. Hole diameter reducing tool. 3,067,509, 12–11–62, Cl. 29—567.

Welles, Donald P., Jr., and K. A. Hill, to Besly-Welles Corp. Method of contracting a hole and tool therefor. 3,038,253, 6–12–62, Cl. 29—567.

Welles, Robert D., to Textron, Inc. Underseat compartment. 3,026,141, 3–20–62. Cl. 297—192.

Wellington, Arthur M. and T. C., and J. W. Bruce, to HRB-Singer, Inc. Test scoring, recording, and teaching apparatus. 3,057,082, 10–9–62, Cl. 35—9.

Wellington, Cary L. Electronic condensers. 3,058,040, 10–9–62, Cl. 317—230.

Wellington, Cary L., to Wellington Electronics, Inc. Automatic winding machine and method. 3,058,684, 10–16–62, Cl. 242—56.1.

Wellington Electronics, Inc.: *See*—
Wellington, Cary L. 3,058,684.

Wellington, John R.: *See*—
Turner, Gordon H., Wellington, Sutherland, and White. 3,063,099.

Wellington, Thomas C.: *See*—
Wellington, Arthur M. and T. C., and Bruce. 3,057,082.

Wellman, Carl E., Jr., to General Electric Co. Electrical delay line. 3,019,398, 1–30–62, Cl. 333—31.

Wellman Engineering Co., The: *See*—
Komph, William L., Sr. 3,055,289.

Wellman, Francis C., to Sperry Rand Corp. Transistorized integrator circuit. 3,021,431, 2–13–62, Cl. 307—88.5.

Wellman, Fred C.: *See*—
Bell, Raymond M., Gooding, Wellman, and McDevitt. 3,045,560.

Wellman, Lester R. Bag-tube end-opening means. 3,059,550, 10–23–62, Cl. 93—29.

Wellman, S. K., Co.: *See*—
Byers, Clifton A. 3,033,326.

Wellman, S. S., Co., The: *See*—
Wulff, John. 3,069,758.

Wellman, Victor E., and N. M. Bikales, to American Cyanamid Co. Simplified method of cyanoethylation of cellulosic fabric. 3,026,168, 3–20–62, Cl. 8—158.

Wellman, Victor E., and N. M. Bikales, to American Cyanamid Co. Apparatus for treating reticulate material. 3,046,775, 7–31–62, Cl. 68—147.

Wellner, Richard F., to Ampex Corp. Test pin. 3,023,488, 3–6–62, Cl. 29—155.55.

Wells, A., & Co. Ltd.: *See*—
Wells, Alfred W. J. 3,028,138.

Wells, Alfred F. Portable outdoor-type barbecue device. 3,045,582, 7–24–62, Cl. 99—397.

Wells, Alfred W. J., ½ to A. Wells & Co. Ltd., and ½ to United-Carr Fastener Corp. Anti-vibration mountings. 3,028,138, 4–3–62, Cl. 248—358.

Wells, Allon R., and R. L. Schwing. Motor protector or the like. 3,033,958, 5–8–62, Cl. 200—113.

Wells, Arthur N. Apparatus for determining ellipticity of surface reflected plane polarized light. 3,060,793, 10–30–62, Cl. 88—14.

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Wells, Arthur N. Resonant bronze alloy. 3,061,425, 10–30–62, Cl. 75—154.

Wells, Bruce C.: *See*—
Samuel, Ralph B., and Wells. 3,040,146.

Wells, Bruce C., and C. J. Mahler, to United States of America, Navy. Automatic stop limit for gun control. 3,054,297, 9–18–62, Cl. 74—3.5.

Wells, Bruce C., and D. D. Armstrong, to Westinghouse Electric Corp. Electrical interlock. 3,064,104, 11–13–62, Cl. 200—141.

Wells, Donald A. Electric broiler. 3,023,298, 2–27–62, Cl. 219—37.

Wells, Earl J. Dental drill. 3,060,580, 10–30–62, Cl. 32—26.

Wells, Earl P., to Industrial Refrigeration Co., Inc. High vacuum system. 3,018,561, 1–30–62, Cl. 34—51.

Wells Fargo Bank American Trust Co.: *See*—
Bailey, Frazer A. 3,019,757.
Hicks, William W., and Beckett. 3,070,100.

Wells, Frank L.: *See*—
MacClaren, Robert H., and Wells. 3,068,141.
Winters, Thomas F. 3,063,472.

Wells, Franklin B.: *See*—
Griffith, George L., and Wells. 3,059,575.

Wells, Henry, to Utility Service Co., Inc. Automobile washer pusher. 3,022,746, 2–27–62, Cl. 104—172.

Wells, Ireland U.: *See*—
Mallonee, Clarence. 3,026,557.

Wells, James G., and H. C. Golz, to Borg-Warner Corp. Cabinet structure. 3,028,211, 4–3–62, Cl. 312—257.

Wells, Joel B., to Garey Corp. Extensible rod for a garment display. 3,023,911, 3–6–62, Cl. 211—170.

Wells, Joseph W. Composite belleville spring. 3,029,071, 4–10–62, Cl. 267—1.

Wells Lamont Corp.: *See*—
Schayer, Robert O. 3,070,339.

Wells, La Roy, Jr. Ground mulching machine. 3,029,879, 4–17–62, Cl. 172—78.

Wells, Melvin J.: *See*—
Salvatori, Henry, Wells, and Glenn. 3,044,041.

Wells, Norman C., to Gas Drilling Services Co. Dual passage well drilling pipe. 3,065,807, 11–27–62, Cl. 175—321.

Wells, Richard L., to Crompton & Knowles Corp. Method and apparatus for needling a fibrous web to form a textile product. 3,025,586, 3–20–62, Cl. 28—4.

Wells, Richard D., to Crompton & Knowles Corp. Textile products made from needling a fibrous web. 3,052,948, 9–11–62, Cl. 28—79.

Wells, Richard H., to Westinghouse Air Brake Co. Combined check and choke valve device. 3,032,063, 5–1–62, Cl. 137—599.2.

Wells, Robert C.: *See*—
Clancy, John J., Rafferty, and Wells. 3,019,201.
Hilderand, Richard V., and Wells. 3,031,543.

Wells, Roger, to Diamond National Corp. Molded pulp article. 3,040,948, 6–26–62, Cl. 229—2.5.

Wells, Roger, and R. F. Reifers, to Diamond National Corp. Food container. 3,040,947, 6–26–62, Cl. 229—2.5.

Wells, Willard H.: *See*—
Pilkington, William C., Jr., McDonald, and Wells. 3,030,049.

Wells, William H., to Newcomb Electronics Corp. Phonograph attachment for gauging starting position of the tone arm. 3,046,023, 7–24–62, Cl. 274—14.

Wells, Willis L., to American Machine & Foundry Co. Bowling ball elevating mechanism. 3,058,745, 10–16–62, Cl. 273—43.

Wellsch, Henry. Means for servicing liquid-filled pneumatic tires. 3,021,877, 2–20–62, Cl. 141—38.

Wellsch, Henry. Apparatus for introducing liquid into and removing from a pneumatic tube. 3,043,348, 7–10–62, Cl. 141—38.

Welmaid Products Inc.: *See*—
Dwinell, Richard C., and A. L. Groo. 3,064,374.
Groo, Arthur L. 3,018,899.

Welsh Co. : *See*—
Cohn, Lawrence H. 3,054,591.
Welsh, Charles J., to Union Oil Co. of California. Hydrocarbon eduction apparatus and process. 3,039,939, 6–19–62, Cl. 202—6.
Welsh, Harvey W. : *See*—
McDowall, Charles J., and Welsh. 3,039,738.
Welsh, Harvey W., to General Motors Corp. Floating labyrinth seal. 3,018,085, 1–23–62, Cl. 253—39.
Welsh, Harvey W., to General Motors Corp. Stator ring assembly. 3,026,087, 3–20–62, Cl. 253—78.
Welsh, Harvey W., to General Motors Corp. Rotor blade lock. 3,033,520, 5–8–62, Cl. 253—77.
Welsh, Harvey W., to General Motors Corp. Fluid seal. 3,042,367, 7–3–62, Cl. 253—69.
Welsh, Harvey W., to General Motors Corp. Pinned blade sealing means. 3,042,369, 7–3–62, Cl. 253—77.
Welsh, Harvey W., to General Motors Corp. Vane ring assembly. 3,042,370, 7–3–62, Cl. 253—78.
Welsh, Harvey W., to General Motors Corp. Pinned blade shrouding. 3,053,505, 9–11–62, Cl. 253—77.
Welsh, Harvey W., to General Motors Corp. Rotating mechanism. 3,067,980, 12–11–62, Cl. 253—39.
Welsh, Harvey W., to General Motors Corp. Vane ring assembly. 3,069,135, 12–18–62, Cl. 253—78.
Welsh, Harvey W., to General Motors Corp. Vane ring assembly. 3,070,352, 12–25–62, Cl. 253—78.
Welsh, Harvey W., to General Motors Corp. Shroud assembly. 3,070,353, 12–25–62, Cl. 253—78.
Welsh, Herbert F. : *See*—
Blain, Albert, Welsh, Wilson, Meyer, and Roggenstein. 3,037,606.
Bienthal, Edwin L., Eckert, and Welsh. 3,056,947.
Welsh, Herbert F., N. J. Appleton, and M. Silverberg, to Sperry Rand Corp. Selector mechanisms. 3,021,512, 2–13–62, Cl. 340—174.1.
Welsh, Hewitt S., to Clupak Inc. Process for the production of elastic paper yarn. 3,035,405, 5–22–62, Cl. 57—165.
Welsh, James W., to Signal-Stat Corp. Pull ribbon for snap action vane switch. 3,019,318, 1–30–62, Cl. 200—122.
Welsh, Jay Y., to Manganese Chemicals Corp. Electrolytic manganese dioxide process. 3,065,155, 11–20–62, Cl. 204—83.
Welsh, Jay Y., M. W. Milberg, and H. R. Peterson, to Manganese Chemicals Corp. Producing manganese by fused salt electrolysis, and apparatus therefor. 3,018,233, 1–23–62, Cl. 204—64.
Welsh, Kenneth L. Trash compactor apparatus. 3,024,720, 3–13–62, Cl. 100—53.
Welsh Mfg. Co. : *See*—
Lindblom, Frank W. 3,016,542.
Lindblom, Frank W. 3,016,543.
Lindblom, Frank W. 3,056,140.
Lindblom, Frank W. 3,066,574.
Matheson, James N. 3,029,812.
Welsh, Matilda D. Baby chair bed. 3,066,981, 12–4–62, Cl. 297—317.
Welsh, Ormonde P. Box folding apparatus. 3,039,369, 6–19–62, Cl. 93—49.
Welshansen, William. Ship salvage system. 3,019,754, 2–6–62, Cl. 114—54.
Welt, Louis A. : *See*—
Huff, John. 3,062,382.
Huff, John. 3,063,765.
Welte, Eugen : *See*—
Höll, Karl, Meier, and Welte. 3,070,050.
Welter, George L., to H. I. Sides. Cart seat. 3,023,018, 2–27–62, Cl. 280—33.99.
Welter, Otto : *See*—
Baun, Hermann, and Welter. 3,035,195.
Welter, Otto. Washing machines. 3,048,994, 8–14–62, Cl. 68—184.
Welton, Ralph C. : *See*—
Mitchell, Reid L., Smith, and Welton. 3,046,082.
Weltronic Co. : *See*—
Chiasson, Wilbert A. 3,045,172.
Collom, Donald J. 3,045,163.
Peterson, Allen R. 3,056,018.
Zeller, Richard S. 3,019,329.
Welty, Frank and R. Closure means for pressurized syrup tanks and the like. 3,042,246, 7–3–62, Cl. 220—40.
Welty, Raymond : *See*—
Welty, Frank and R. 3,042,246.
Welty, Richard O., and E. E. Rush, to Phillips Petroleum Co. Valve means. 3,044,493, 7–17–62, Cl. 137—625.32.
Welwyn Electric Ltd. : *See*—
Garnsworthy, Courtney. 3,044,901.
Wenczler & Heidenhain, Fa. : *See*—
Heidenhain, Johannes. 3,031,923.
Wenczler, Ludwig, to Maschinenfabrik Augsburg-Nurnberg, A.G. Printing press machinery. 3,019,728, 2–6–62, Cl. 101—378.
Wendel, Franz, and H. Rindsfusser, to The National Cash Register Co. Cash registers, accounting, and similar machines. 3,039,680, 6–19–62, Cl. 235—7.
Wendel, Gunther : *See*—
Steichele, Joseph, Wendel, and Breitenbach. 3,025,658.
Wendelburg, Frank W., C. O. Evans, and H. J. Durst, to Harnischfeger Corp. Control apparatus. 3,039,036, 6–12–62, Cl. 318—204.
Wendell, Charles B. : *See*—
Seltzer, Kenneth P., and Wendell. 3,067,012.
Wendell, Charles B., Jr., and L. S. Belknap. Apparatus for providing uniform descent of a particulate solid material disposed in a reaction chamber. 3,028,226, 4–3–62, Cl. 23—284.
Wendell Coffee : *See*—
Crowell, Carl C. 3,016,954.
Richardson, Andrew J. 3,048,860.
Wendell, Olaf B. : *See*—
Wheeler, Walter G., and Wendell. 3,018,817.
Wendell, Philip F. Display device. 3,022,594, 2–27–62, Cl. 40—319.
Wenderski, John. Fisherman's pole rest and a holder therefor. 3,033,503, 5–8–62, Cl. 248—38.
Wendlberger, Gerhard : *See*—
Strassberger, Lothar, and Wendlberger. 3,060,181.
Wendler, Norman L. : *See*—
Hoffsommer, Robert D., Jr., Taub, and Wendler. 3,028,398.
Taub, David, and Wendler. 3,056,813.
Taub, David, and Wendler. 3,068,224.
Taub, David, Wendler, and Hoffsommer. 3,068,226.
Taub, David, Wendler, and Slates. 3,053,865.
Wendler, Norman L., and D. Taub, to Merck & Co., Inc. Novel 16-halomethyl steroids and processes. 3,065,239, 11–20–62, Cl. 260—397.45.
Wendling, Bruce E. : *See*—
Lounsberry, Ernest D., and Wendling. 3,015,263.
Wendorf, Ovaldo. Storm umbrella. 3,032,047, 5–1–62, Cl. 135—35.
Wendorf, Ovaldo. Releasable garment hanger. 3,042,275, 7–3–62, Cl. 223—88.
Wendt, Alex M., to L-K Pump Valve Co. Valve and sealing gasket therefor. 3,070,120, 12–25–62, Cl. 137—516.29.
Wendt, Frank J., to United States Gypsum Co. Self-sealing shingle. 3,042,193, 7–3–62, Cl. 206—60.
Wendt, Frank S., to General Motors Corp. Vehicle signalling apparatus for warning of approaching road conditions. 3,045,775, 7–24–62, Cl. 340—32.
Wendt Karl R., to Paramount Pictures Corp. Multiple station recording system. 3,048,822, 8–7–62, Cl. 340—167.
Wendt, Robert H. : *See*—
Hester, Harry W. 3,034,276.
Matek, Walter E. 3,022,767.
Wendt, Robert H. Remote controls for television speakers. 3,035,119, 5–15–62, Cl. 179—1.
Wendt, Robert L. : *See*—
Garbarini, Robert F., Wendt, and Rawitz. 3,037,289.
Wener, Johannes, to H. T. Golde, G.m.b.H. Sliding roof for motor vehicles, or the like. 3,050,336, 8–21–62, Cl. 296—137.
Wengen, Henry R., to Fargo Mfg. Co., Inc. Cable spreader. 3,021,381, 2–13–62, Cl. 174—146.
Wenger, Arthur D., to Quaker Maid Kitchens, Inc. Drawer guide. 3,053,582, 9–11–62, Cl. 308—3.8.
Wenger, Clarence W. Solar heaters. 3,052,229, 9–4–62, Cl. 126—271.
Wenger, David A. : *See*—
Lesnett, Frederick A., Jr., and Wenger. 3,044,138.
Wenger, Frederic. Grilling oven. 3,034,420, 5–15–62, Cl. 99—392.
Wenger, Harvey M., to Terre Hill Machine Co. Barn gutter cleaner. 3,045,811, 7–24–62, Cl. 198—224.
Wenger, Otto : *See*—
Meyer, Albert, and Wenger. 3,032,871.
Wenger, Otto, to Prefina G.m.b.H. Drawing table. 3,060,624, 10–30–62, Cl. 45—131.
Wenger, William V. : *See*—
Bleikamp, Donald K., and Wenger. 3,036,370.
Wenig, Harold G., to United States of America, Army. Centrifugal type safety and arming spring for a fuze. 3,066,606, 12–4–62, Cl. 102—75.
Wenis, Edward : *See*—
Gardner, Thomas S., Lee, Finkelstein, and Wenis. 3,042,721.
Gardner, Thomas S., Lee, and Wenis. 3,047,581.
Gardner, Thomas S., Lee, and Wenis. 3,053,848.
Gardner, Thomas S., Lee, and Wenis. 3,065,225.
Wenk, Henry L. C., Jr., to American Casting and Mfg. Corp. Locking seal. 3,062,577, 11–6–62, Cl. 292—307.
Wenman, William A., to Phoenix Products Co., Inc. Resilient lamp mounting. 3,018,364, 1–23–62, Cl. 240—90.
Wenman, William A., and J. F. Morton, to Phoenix Products Co., Inc. Shock resistant mounting for lamps. 3,018,365, 1–23–62, Cl. 240—90.
Wennagel, Glenford J., and R. R. Gilruth, to Grumman Aircraft Engineering Corp. Method of operating and apparatus for watercraft. 3,044,432, 7–17–62, Cl. 114—66.5.
Wenner, Gotthilf : *See*—
Keller, Rudolf, Schneiders, and Wenner. 3,060,222.
Wenner, John W. : *See*—
Thompson, Leonard H., and Wenner. 3,049,698.
Wenner, Valentin, and E. Hirtler, to Afico A.G. Whole milk powder. 3,065,076, 11–20–62, Cl. 99—56.
Wenner, Wilhelm : *See*—
Albrecht, Harry A., Plati, and Wenner. 3,058,987.
Wennerberg, Allan L. : *See*—
Martz, Arthur F., Jr., and Wennerberg. 3,031,855.
Wennerberg, August : *See*—
Barkstrom, Elmer E., Swaim, and Wennerberg. 3,037,269.
Wennerberg, Fritz J., to Separator, Aktiebolaget. Method for continuous heat-treatment of liquids sensitive to heat. 3,055,644, 9–25–62, Cl. 257—272.

Wennerberg, Gunnar, to Motorola, Inc. Magnetic antenna systems. 3,031,663, 4–24–62, Cl. 343—117.

Wennerberg, Gunnar, to Motorola, Inc. Magnetic antenna apparatus. 3,031,667, 4–24–62, Cl. 343—788.

Wennstrom, John A., to Merrow Sales Corp. Sewing machines. 3,034,460, 5–15–60, Cl. 112—123.

Wenschlag, Marvin R. Grain loading device. 3,019,879, 2–6–62, Cl. 193—16.

Went, Jan J., and B. L. A. van der Schee, to Stichting Reactor Centrum Nederland. Nuclear plant provided with an expansible gas holder. 3,056,736, 10–2–62, Cl. 204—193.2.

Went, Norman H., and L. Banks, to Staflex Co. Ltd. Method of forming uniform-sized plasticized resin granules and resulting product. 3,067,162, 12–4–62, Cl. 260—31.8.

Wente, Robert J.: *See*—
Bevers, Eugene J., and Wente. 3,048,013.

Wente, Robert J., to General Motors Corp. Adjustable connection. 3,047,317, 7–31–62, Cl. 287—52.02.

Wente, Robert J., to General Motors Corp. Turboprop control. 3,056,455, 10–2–62, Cl. 170—135.74.

Wentworth, Amaziah F. Quick freezing apparatus. 3,048,-987, 8–14–62, Cl. 62—346.

Wentworth, Clinton H., and L. H. Wallner, to Hexcel Products, Inc. Method for making cellular cores. 3,044,921, 7–17–62, Cl. 156—205.

Wentworth, Harry T. Valve assembly selectively operable including power drive and remote control. 3,043,366, 7–10–62, Cl. 158—36.

Wentworth, Joseph T.: *See*—
Bishop, Ralph W., Wentworth, and Withrow. 3,050,376.

Wentworth, Joseph T., to General Motors Corp. Internal combustion engine exhaust valve assembly and method of engine operation. 3,068,847, 12–18–62, Cl. 123—90.

Wentworth, Milo R., to Minneapolis-Honeywell Regulator Co. Self contained diaphragm valve. 3,016,918, 1–16–62, Cl. 137—620.

Wentz, Edward C., H. R. Moore, and W. D. Albright, to Westinghouse Electric Corp. Winding for electrical apparatus. 3,025,486, 3–27–62, Cl. 336—187.

Wentz, Richard K., to Aircraft Armaments, Inc. Extensible faucet for pressurized containers. 3,039,656, 6–19–62, Cl. 222—173.

Wentz, Richard K., and C. L. Steenwerth, to Aircraft Armaments, Inc. Dispensing head for container. 3,039,661, 6–19–62, Cl. 222—396.

Wenz, Herbert: *See*—
Reeber, Rudolf, and Wenz. 3,037,471.
Reeber, Rudolf, and Wenz. 3,066,623.

Wenzel, Alfred, to Gebruder Welger. Baler and straw cutter for harvester thresher. 3,018,718, 1–30–62, Cl. 100—103.

Wenzel, Alfred, to Welger, Gebruder. Cross conveyer for pick-up baler. 3,044,243, 7–17–62, Cl. 56—341.

Wenzel, Franz: *See*—
Völker, Theodor, and Wenzel. 3,070,509.

Wenzel, Philip D.: *See*—
Morrison, James L., and Wenzel. 3,026,667.
Ralston, Harold A., and Wenzel. 3,049,856.

Wenzel, Thomas C. Combination heater, aerator, and backdrop for aquarium. 3,059,091, 10–16–62, Cl. 219—41.

Wenzel, William J.: *See*—
Knight, Kenneth K., and Wenzel. 3,017,130.

Wenzel, William J., and K. K. Knight. Hydraulic actuating mechanism for operating doors, windows, draperies and the like. 3,026,676, 3–27–62, Cl. 60—52.

Wenzl, Josef, to Walter Jordan G.m.b.H., Firma. Surge absorber. 3,065,766, 11–27–62, Cl. 138—30.

Wepfer, Federico. Mechanical toothbrush and the like. 3,046,584, 7–31–62, Cl. 15—22.

Wepfer, George R., to A. O. Smith Corp. Arc welding apparatus. 3,047,714, 7–31–62, Cl. 219—127.

Weppler, Rudolf, to Siemens-Schuckertwerke Aktiengesellschaft. Frequency multiplier system. 3,048,765, 8–7–62, Cl. 321—7.

Wepsala, George B., Jr., to Jersey Production Research Co. Floating shaft turbo-drill. 3,047,079, 7–31–62, Cl. 175—107.

Werber, Frank X.: *See*—
Stickney, Palmer B., Overhults, and Werber. 3,030,349.

Werber, Frank X., to The B. F. Goodrich Co. Titanium and zirconium esterification catalysts. 3,056,818, 10–2–62, Cl. 260—410.6.

Werber, Frank X., and S. J. Averill, to The B. F. Goodrich Co. Ester synthesis. 3,056,817, 10–2–62, Cl. 260—404.8.

Werblin, David A.: *See*—
Griffin, David H., and Werblin. 3,015,365.

Werblud, Maurice, to Netex Mink Ranches, Inc. Method of processing raw chicken by-products in the preparation of food for animal consumption. 3,032,415, 5–1–62, Cl. 99—7.

Werbyckyj, Wolodymyr: *See*—
Brueckner, Fluskey, and Werbyckyj. 3,019,701.

Werdelmann, Bruno: *See*—
Dohr, Manfred, Wulff, and Werdelmann. 3,024,197.

Werdenberg, Hermann, to Ciba Co., Inc. Process for printing polyhydroxylated fibers. 3,068,058, 12–11–62, Cl. 8—62.

Weremiczyk, Benny: *See*—
Pearson, Reinhold A., and Weremiczyk. 3,062,106.

Werf Gusto v/h firma A.F. Smulders, N.V.: *See*—
Smulders August H. M. 3,056,585.

Werge, Thomas C.: *See*—
Abrams, Victor R., Werge, and Ryan. 3,041,958.

Werker, Herwart, to American Radiator & Standard Sanitary Corp. Heating element. 3,041,569, 6–26–62, Cl. 338—203.

Werkman, Robert T., and P. J. Canterino, to Phillips Petroleum Co. Adhesives for bonding poly 1-olefins to metals. 3,049,455, 8–14–62, Cl. 154—43.

Werkspoor, N.V.: *See*—
Van der Werff, Willem. 3,064,817.
Van Zijp, Frederik G. 3,039,761.
Witte, Johan F. 3,064,721.
Witte, Johan F. 3,068,077.

Werkzeugburstenfabrik Kullen & Co. G.m.b.H.: *See*—
Halg, Walter. 3,055,034.

Werle, Otto P., to United States of America, Navy. Cutting tool and method of making same. 3,017,790, 1–23–62, Cl. 77—70.

Werlein, Eugene R.: *See*—
Reddie, William A., and Werlein. 3,034,983.
Reddie, William A., and Werlein. 3,061,542.
Reddie, William A., and Werlein. 3,062,740.

Werme, John V., to Bailey Meter Co. Scanning apparatus. 3,070,778, 12–25–62, Cl. 340—147.

Werme, John V., W. F. Newbold, J. Parnell, and J. C. Volpe, to Minneapolis-Honeywell Regulator Co. Control apparatus. 3,017,097, 1–16–62, Cl. 235—168.

Wernecke, Heinz C. Die casting machine. 3,046,622, 7–31–62. Cl. 22—68.

Wernecke, Richard E.: *See*—
Beduhn, Daniel E., and Wernecke. 3,020,214.

Werner, Alfred F., and G. Stepien, Jr., to United States Rubber Co. Reinforced sealing tape. 3,018,208, 1–23–62, Cl. 154—53.5.

Werner, Arnold J. Wrap-around overshoe for skater's shoe. 3,027,660, 4–3–62, Cl. 36—7.1.

Werner, Calvin J., to General Motors Corp. Brake fluid reservoir. 3,049,536, 6–26–62, Cl. 60—54.6.

Werner, Calvin J., to General Motors Corp. Automatic brake adjustor for vehicle drum brake. 3,067,840, 12–11–62, Cl. 188—79.5.

Werner, Ephraim. Jacket and core member torch tip assembly. 3,042,766, 7–3–62, Cl. 158—27.4.

Werner, Frank R.: *See*—
Brown, Carl W., Sheppard, and Werner. 3,025,519.

Werner, Frank R.: *See*—
Flint, Kenneth C., and Werner. 3,021,052.
Slamb, Gene E., and Werner. 3,015,434.
Zurbuchen, Louis E., and Werner. 3,027,077.

Werner, Frank R., H. O. Randall, and K. C. Flint, to The National Cash Register Co. Selective drawer control mechanism for cash registers and accounting machines. 3,017,-078, 1–16–62, Cl. 235—22.

Werner, Frank R., and K. C. Flint, to The National Cash Register Co. Multiple totalizers and selecting and function control means therefor. 3,031,134, 4–24–62, Cl. 235—6.

Werner, Friedrich, to Askania-Werke A.G. Objective reading of scales. 3,068,741, 12–18–62, Cl. 88—14.

Werner, Georg, and G. Von Poser, to Keuffel & Esser Co. Light sensitive diazotype materials. 3,028,240, 4–3–62, Cl. 96—91.

Werner, Hans, and G. Schmidt-Hertzberg, to Continental Gummi-Werke Aktiengesellschaft. Repair patch. 3,044,-524, 7–17–62, Cl. 152—367.

Werner, Jesse: *See*—
Steckler, Robert, and Werner. 3,018,267.
Steckler, Robert, Werner, and Hessel. 3,061,650.

Werner, Jesse, to General Aniline & Film Corp. Mixtures of acrylonitrile polymers with polypyrrolidone and fiber made from same. 3,033,813, 5–8–62, Cl. 260—45.5.

Werner, Johannes: *See*—
Golde, Hans, and Werner. 3,055,701.

Werner, Johannes, to H. T. Golde, G.m.b.H. & Co. K.G. Sliding roof arrangements for motor vehicles. 3,025,099, 3–13–62, Cl. 296—137.

Werner, Johannes, to H. T. Golde, G.m.b.H & Co. K.G. Roofs each having a fixed roof part and a folding roof part. 3,028,194, 4–3–62, Cl. 296—137.

Werner, Johannes, to H. T. Golde G.m.b.H. & Co., K.G. Sliding roof frame structure for motor vehicles. 3,044,824, 7–17–62, Cl. 296—137.

Werner, Johannes, to H. T. Golde, G.m.b.H., & Co. K.G. Guide shoes for sliding along rails. 3,053,581, 9–11–62, Cl. 308—3.

Werner, Leo C.: *See*—
Okrees, Ernest C., and Werner. 3,018,453.

Werner, Lincoln H., to Ciba Pharmaceutical Products, Inc. Organic sulfur compounds and method for producing same. 3,024,248, 3–6–62, Cl. 260—319.

Werner, Louis A.: *See*—
Cartwright, Theodore R., and Werner. 3,021,855.

Werner, Otto, to Siemens-Schuckertwerke Aktiengesellschaft. Circuit arrangement for supplying a consumer with a constant voltage. 3,054,043, 9–11–62, Cl. 323—22.

Werner, Otto E.: *See*—
Reynolds, Donald S., and Werner. 3,047,194.

Werner, Paul, and H. Jung, to F. Keiper. Hinge fitting for seats. 3,051,526, 8–28–62, Cl. 297—367.

Werner & Pfleiderer: *See*—
Frei, Karl. 3,062,575.

Werner & Pfleiderer, G.m.b.H.: *See*—
Knecht, Werner, and Studlein. 3,049,084.

Werner, R. D., Co. Inc.: *See*—
Stoyer, Paul E., and Valliquette. 3,039,186.

Werner, Raymond R.: *See*—
Morley, Philip W., Werner, and Mitchell. 3,038,614.

Werner, Raymond R., and E. L. Engelberg, to United States of America, Navy. Missile warhead cart. 3,024,925, 3–13–62, Cl. 214—75.
Werner, Robert C., to M.S.A. Research Corp. Liquefied gas converter. 3,059,441, 10–23–62, Cl. 62—52.
Werner, Robert C., and R. E. Shearer, to Mine Safety Appliances Co. Fuel cells. 3,031,518, 4–24–62, Cl. 136—86.
Werner, Robert V., to Cubic Corp. Ionospheric refraction correction technique. 3,068,469, 12–11–62, Cl. 343—9.
Werner, Robert V., R. C. Weaver, and J. W. Crooks, Jr., to General Dynamics Corp. Positioning determining device. 3,025,520, 3–13–62 Cl. 343—105
Werner, Robert V., and W. J. Thompson, to Cubic Corp. Proximity scoring system. 3,068,470, 12–11–62, Cl. 343—12.
Werner, Sture E., to Svenska Dataregister AB. Cash register control apparatus. 3,034,717, 5–15–62, Cl. 235—146.
Werner, Tage, to Inland Steel Co. Valve structure. 3,030,977, 4–24–62, Cl. 137—340.
Wernham, Spencer C., and J. C. Hendricks, to McGill Metal Products Co. Pre-baited trap. 3,058,256, 10–16–62, Cl. 43—81.
Wernick, Jack H., to Bell Telephone Laboratories, Inc. Ferromagnetic material. 3,065,071, 11–20–62, Cl. 75—134.
Wernicke & Co., K.G.: *See*—
Enders, Adolf, Seirig, and Strunck. 3,052,227.
Wernicke, Kenneth G.: *See*—
Pascher, Robert L., and Wernicke. 3,058,529.
Wernig, James H., to General Motors Corp. Automobile door construction. 3,069,197, 12–18–62, Cl. 296—44.
Werrill, John M., to Ampex Corp. Ventilating system for electronic apparatus. 3,039,377, 6–19–62, Cl. 98—1.
Wernstein, Frank A., to Phillips Drill Co. Adapter or percussive member for self-drilling expansion shells. 3,028,-167, 4–3–62, Cl. 279—19.
Werntz, James H.: *See*—
Sandy, Charles A., and Werntz. 3,041,154.
Werres, Horst: *See*—
Pieroh, Ernst-Albrecht, Werres, and Freund. 3,049,470.
Werrmann, Gerhard, to Carl Braun Camerawerk. Camera. 3,041,950, 7–3–62, Cl. 95—10.
Werry, John A., to Kidde Mfg. Co., Inc. Liquid mixing devices. 3,049,266, 8–14–62, Cl. 222—133.
Wersterfer, Melvin A. Harrow cultivator. 3 028,920, 4–10–62, Cl. 172—613.
Wert, Robert J.: *See*—
Dahlstrom, Richard L., and Wert. 3,069,836.
Wertepny, Rudolph J., Sr., and B. G. McAteer, to J. Wiss & Sons Co. Grass cutting shears. 3,064,350, 11–20–62, Cl. 30—248.
Werth, Albert A., to General Motors Corp. Engine ring clamp having hinge means to permit outward radial movement of the clamp. 3,070,388, 12–25–62, Cl. 285—411.
Werth, Joseph R., to Western Electric Co., Inc. Method of making an assembly of relatively movable members. 3,051,-607, 8–28–62, Cl. 156—242.
Wertheimer, Hedda: *See*—
Davies, George. 3,050,827.
Werther, Matheus H., and C. M. W. A. Christ, to Lucas Aardenburg N.V. Apparatus for evacuating natural and artificial products. 3,052,209, 9–4–62, Cl. 118—30.
Werthwine, Joseph: *See*—
Stepanski, Bernard, Smith, and Werthwine 3 050,436
Wertman, Charles A. Multiple cutting tool head. 3,068,727, 12–18–62, Cl. 77—58.
Werts, Everett W.: *See*—
Adams, Charles J., and Werts. 3,046,370.
Mounce, Whitman D., and Werts. 3,030,885.
Werts, Everett W., to General Electric Co. Shift registers. 3,042,900, 7–3–62, Cl. 340—168.
Werts, Everett W., to Dunham-Bush, Inc. Balanced bridge-type temperature control system. 3,054,562, 9–18–62, Cl. 236—91.
Werts, Wayne E., to The Bendix Corp. Control apparatus. 3,018,622, 1–30–62, Cl. 60—39.28.
Wertwijn, George, to Zenith Radio Corp. Tetrode transistor circuit. 3,019,352, 1–30–62, Cl. 307—88.5.
Wesch, Hermann O. Amusement device. 3,036,389, 5–29–62, Cl. 36—7.8.
Wesche, Ernest, to Combustion Engineering, Inc. Pellet distribution. 3,046,674, 7–31–62, Cl. 34—171.
Weschler, Joseph R., to Johnson & Johnson. Pressure sensitive adhesive tape and paper backing element impregnated with an acrylic ester copolymer and a water-dispersible aldehyde resin. 3,068,121, 12–11–62, Cl. 117—122.
Wesebaum, Paul E.: *See*—
Noll, George C., and Wesebaum. 3,021,016.
Wesix Electric Heater Co.: *See*—
Beckett, John C. 3,038,118.
Weslau, Hermann: *See*—
Wilke, Gunther, and Weslau. 3,017,439.
Wesley, Charles A.: *See*—
Bukowski, Charles P., and Wesley. 3,038,032.
Wesley, Edward J., to United States of America, Navy. Radiac alarm dosimeter. 3,019,339, 1–30–62, Cl. 250—83.6.
Wesley, Edward J. Recycling radiation rate meter. 3,050,-625, 8–21–62, Cl. 250—83.3.
Wesley, Newton K., to The Plastic Contact Lens Co. Bifocal corneal contact lens. 3,031,927, 5–1–62, Cl. 88—54.5.
Wesley, Newton K., and G. S. Mattie, to Plasmatic, Inc. Contact lens support. 3,027,804, 4–3–62, Cl. 88—56.
Wesman Verne A. Cushioning corner pieces. 3,030,728, 4–24–62, Cl. 45—68.4.
Wesner, Adam L., to Battelle Memorial Institute. Method of separating wood chips from bark chips. 3,032,188, 5–1–62, Cl. 209—4.
Wesolowski, Adolph J.: *See*—
Costello, Charles A., Richards, and Wesolowski. 3,065,-367.
Wesolowski, Adolph J., to General Electric Co. Rotor leads. 3,015,744, 1–2–62, Cl. 310—234.
Wesolowski, Adolph J., to General Electric Co. Rotor construction. 3,048,725, 8–7–62, Cl. 310—271.
Wesp, George L.: *See*—
Butler, John M., Miller, and Wesp. 3,068,208.
Slosombe, Robert J., and Wesp. 3,051,685.
Wespl, George E., to Norton Co. Wheel wear sensing device and compensator. 3,033,187, 5–8–62, Cl. 125—11.
Wessel, Hubert L., to Western Electric Co., Inc. Retractile tinsel cordage. 3,037,068, 5–29–62, Cl. 174—69.
Wessells, Henry W., III: *See*—
Dean, Walter B., and Wessells. 3,044,822.
Wessells, Henry W., III, to The Budd Co. Automobile body construction. 3,054,636, 9–18–62, Cl. 296—28.
Wessels, Diana A.: *See*—
Renner, Goodsell H., and Wessels. 3,023,450.
Wessels, Johannes H.: *See*—
Backers, Franciscus T., and Wessels. 3,053,942.
Wessels, Johannes H., to North American Philips Co., Inc. Device for synchronizing a rotatory system. 3,038,104, 6–5–62, Cl. 317—6.
Wesslau, Hermann: *See*—
Wilke, Günther, and Wesslau. 3,063,986.
Wesslinag, Kenneth P., to Precision Scientific Co. Vacuum pump. 3,040,973, 6–26–62, Cl. 230—158.
Wesslund, Robert E.: *See*—
Williams, Gerald I., and Wesslund. 3,041,499.
Wesson Corp.: *See*—
Bader, William, and Berry. 3,052,952.
Bader, William, and Berry. 3,059,316.
Beyer, Fred K., and Bader. 3,053,557.
Bogner, Gerald Q. 3,023,486.
Klages, Christian L., and Sullivan. 3,018,675.
Wesson, Joseph P., to Robert Boby Ltd. Process containers. 3,033,393, 5–8–62, Cl. 214—17.
West Base Co., The: *See*—
Essig, Henry J. 3,026,082.
West Bend Co.,The: *See*—
Carr, Sherman C. 3,034,005.
Geller, Thomas L. 3,033,960.
West, Charles P.: *See*—
Bennetch, Leonard M., West, and Leiner. 3,017,283.
West, Clifton F., J. B. Wethington, and W. F. Rhem. One-revolution clutch and stop means. 3,051,285, 8–28–62, Cl. 192—148.
West, Donald C.: *See*—
Rowley, Edward K., and West. 3,051,018.
West, Erland L.: *See*—
Johnson, William R., and West. 3,054,481.
West, Fred W.: *See*—
Kaufman, Herman S., and West. 3,019,115.
Menchan, Larned A., Schenker, and West. 3,060,275.
West, Gerald N., to International Business Machines Corp. Tape reading apparatus. 3,040,307, 6–19–62, Cl. 340—174.1.
West, Gerald N., to International Business Machines Corp. Tape control. 3,042,178, 7–3–62, Cl. 197—133.
West, Harry J.: *See*—
Gieselman, Richard F., and West. 3,030,242.
West, James R., to Sperry Rand Corp. Infeed mechanism. 3,022,882, 2–27–62, Cl. 198—104.
West, James R., Tiltable plumber's hand ladle. 3,063,110, 11–13–62, Cl. 22—86.
West, John B., to Universal Machine Co., Inc. Article transfer device. 3,059,756, 10–23–62, Cl. 198—162.
West, John R.: *See*—
Peoples, Virgil H., and West. 3,015,416.
West, John R., to The O. M. Scott & Sons Co. Power mower. 3,028,717, 4–10–62, Cl. 56—25.4.
West, John R., to The O. M. Scott & Sons Co. Power mower rotary cutter device. 3,050,924, 8–28–62, Cl. 56—295.
West, John R., and D. E. Robinson, to The O. M. Scott & Sons Co. Rotary cutter. 3,050,925, 8–28–62, Cl. 56—295.
West Laboratories, Inc.: *See*—
Cantor, Abraham, and Winicov. 3,028,300.
Neracher, Otto E., Schmidt, and Winicov. 3,039,916.
Winicov, Murray W. 3,028,427.
Winicov, Murray W., and Schmidt. 3,028,299.
Winicov, Murray W., and Sutton. 3,029,183.
West, Lester W., and A. J. Huston. Snow melting equipment. 3,052,231, 9–4–62, Cl. 126—343.5.
West, Norman E.: *See*—
Childers, Eugene, and West. 3,056,648.
West, Owen L. Musical calculator. 3,029,680, 4–17–62, Cl. 84—470.
West, Paul B., to Saco-Lowell Shops. Fly removing apparatus. 3,020,600, 2–13–62, Cl. 19—157.
West, Paul D., to Truss Pre-Fab, Inc. Connector gusset for framing construction. 3,052,149. 9 4–62, Cl. 85—113.
West Pharmaceutical Co. Ltd.: *See*—
Haler, David. 3,019,222.
West, Reginald C., to Sherer-Gillett Co. Absorption refrigeration system. 3,065,609, 11–27–62. Cl. 62—85.
West, Robert A.: *See*—
Hitchings, George H., Ledig, and West. 3,037,980.

West, Robert A., to General Electric Co. Electrical capacitor. 3,025,441, 3–13–62, Cl. 317—258.
West, Robert C., and B. T. Willman, to Jersey Production Research Co. Intermittent in-situ burning. 3,047,064, 7–31–62, Cl. 166—11.
West, Robert F., and W. H. Robinson, to The Stanley Works. Soft-face hammer. 3,040,792, 6–26–62, Cl. 145—36.
West, Sherwood F.: *See*—
Alexander, Guy B., Iler, and West. 3,028,234.
West, Stanley E., to United States of America, Navy. Frangible nose cone. 3,048,110, 8–7–62, Cl. 102—53.
West, Theo J., and J. L. Dewey, to The Dow Chemical Co. Foundry molding composition containing a polyalkylenimine. 3,042,641, 7–3–62, Cl. 260—29.2.
West, Walton D., to Baylor University. Scanning device and method. 3,057,998, 10–9–62, Cl. 250—65.
West, Warren H.: *See*—
Abrams, Ralph, and West. Re. 25,224.
West, Warren H., to Cambridge Thermionic Corp. Sealed variable impedance device. 3,027,527, 3–27–62, Cl. 336—90.
West, Warren H., to Cambridge Thermionic Corp. Impedance mounting device. 3,054,082, 9–11–62, Cl. 339—147.
West, William: *See*—
Luckey, George W., and West. 3,038,800.
West, William A. Method and apparatus for compressing cotton. 3,051,076, 8–28–62, Cl. 100—3.
West, William A., to E.I. du Pont de Nemours and Co. Stable copper phthalocyanine pigment compositions. 3,057,872, 10–9–62, Cl. 260—314.5.
West, William C. Combination overhead signal viewer and side clearance indicator. 3,051,055, 8–28–62, Cl. 88—81.
West, William S.: *See*—
Bramley, Robert K. 3,061,049.
Westall, Arthur, and A. Smith, to T.M.M. (Research) Ltd. Textile spinning spindles. 3,035,402, 5–22–62, Cl. 57—135.
Westall, Arthur, and A. Smith, to T.M.M. (Research) Ltd. Spindles for textile spinning and like machines. 3,065,593, 11–27–62, Cl. 57—135.
Westall, Robert F.: *See*—
Edwards, Roy T., and Westall. 3,052,623.
Westall, Roy E., to The American Thread Co. Tape packaging machine. 3,030,749, 4–24–62, Cl. 53—120.
Westberg, Esther A. Infant's turned shoe. 3,051,971, 9–4–62, Cl. 12—142.
Westberg, Walter M., and P. H. Carey, Jr., to Minnesota Mining and Mfg. Co. Molded nonwoven fabric articles. 3,064,329. 11–20–62. Cl. 28—74.
Westbrook, Carl M., to Beloit Iron Works. Mixing apparatus. 3,063,683. 11–13–62. Cl. 259—2.
Westbrook, Charles L. Ticket marking machine. 3,046,878, 7–31–62, Cl. 101—93.
Westbury, Roy, J. L. Courtenay, and T. Edwards, to H. M. Hobson, Ltd. Constant speed units. 3,023,638, 3–6–62, Cl. 74—687.
Westby, Gordon L. Hand operated dump cart. 3,028,695, 4–10–62, Cl. 37—130.
Westcott, William B., Jr., to Cleveland Pneumatic Industries, Inc. Temperature compensated liquid spring. 3,017,170, 1–16–62, Cl. 267—1.
Westcott, William B., Jr., to Cleveland Pneumatic Industries, Inc. Aircraft landing gear. 3,027,122, 3–27–62, Cl. 244—103.
Westcott, William B., Jr., to Cleveland Pneumatic Industries, Inc. Brake compensator for tandem landing gears. 3,027,-123, 3–27–62, Cl. 244—111.
Westcott, William B., Jr., to Cleveland Pneumatic Industries, Inc. Liquid thermal engine. 3,055,170, 9–25–62, Cl. 60—28.
Westcott, William E.: *See*—
May, James L. 3,060,926.
Westell, John R., to Borg-Warner Corp. Electric motor housing. 3,047,753, 7–31–62, Cl. 310—91.
Wester, Edwin: *See*—
Labastie, Albert H., Wester, and Blowers. 3,049,882.
Westerasmaskiner, Aktiebolaget: *See*—
Larsson, Lars, and Thenander. 3,034,702.
Westerback, Ivar S., to Sperry Rand Corp. Flight path angle computer. 3,052,122, 9–4–62, Cl. 73—178.
Westerberg, Erik G. N., to Aktiebolaget Atvidabergs Industrier. Shift register. 3,025,497, 3–13–62. Cl. 340—166.
Westerberg, Kenneth W. Light restricting ventilator. 3,056,-343, 10–2–62, Cl. 98—121.
Westerdale, Maurice M., to Ford Motor Co. Door handle assembly. 3,054,634, 9–18–62, Cl. 292—336.3.
Westeren, Herbert W., to C. I. Hayes, Inc. Resistance heating element for vacuum furnaces and the like. Re. 25,261, 10–16–62, Cl. 13—25.
Westerfeld, Ralph, and K. Meri, to Mohawk Business Machines Corp. Magnetic recording techniques. 3,019,302, 1–30–62, Cl. 179—100.2.
Westerfield, Everett C., to United States of America, Navy. Rapid-correlation echo-ranging system. 3,046,545, 7–24–62, Cl. 343—5.
Westergard, David J.: *See*—
Reinecker, Walter J., and Westergard. 3,015,188.
Westerhoff, Heinrich: *See*—
Hoppe, Alfred, Langner, Westerhoff, Wolke, and Hauenstein. 3,019,179.
Westerhouse, Louis M. Spark plug cleaning device. 3,064,-398. 11–20–62. Cl. 51—186.
Westerman, Alvin G., to Chain Belt Co. Slide gate for vibratory conveyors. 3,049,223, 8–14–62. Cl. 198—220.
Westerman, George S., to United States of America, Army. Means for dynamically adjusting mechanical time fuzes and the like. 3,065,626, 11–27–62, Cl. 73—5.
Westermeier, Donald H.: *See*—
Nelson, Alfred M., Stern, and Westermeier. 3,041,066.
Westermeier, Donald H. Double tapered locking key. 3,062,-569, 11–6–62, Cl. 287—52.05.
Western Co. of North America, The: *See*—
Brown, William E. 3,032,499.
Gilbert, Bruce. 3,058,521.
Western Dairy Products, Inc.: *See*—
Poarch, Arthur E., and Gwozdz. 3,050,400.
Western Electric Co., Inc.: *See*—
Adams, George P. 3,016,571.
Adams, George P., and Rayburn. 3,052,208.
Algatt, George E. 3,051,334.
Arens, Robert C., and Kipper. 3,023,484.
Arnold, Howard H. 3,049,949.
Aviles, Harvey N., and Nickles. 3,061,937.
Bach, Chester C., Clark, Drukker, Klenke, Lenk, and Runge. 3,016,448.
Baluck, Francis M., Campbell, and Hansen. 3,052,278.
Barkstrom, Elmer E. 3,054,237.
Barkstrom, Elmer E., Swaim, and Wennerberg. 3,037,-269.
Bartow, Walter T., and Drobish. 3,038,199.
Bassett, Wilbur E., and Carbone. 3,056,372.
Baumann, John S., Mudd, and Teichner. 3,033,392.
Beeker, James O., and Tulloss. 3,035,114.
Bennett, Edward D. 3,035,681.
Black, Richard G. 3,037,371.
Black, Robert H., and Drevalas. 3,061,163.
Blitchington, Frank H., Jr. 3,024,388.
Bohaboy, Edward J., Masek, and Mannisto. 3,048,328.
Bohannon, William D., Jr. 3,034,087.
Bohannon, William D., Jr. 3,035,395.
Bracci, Delphio J. 3,020,936.
Brewer, Robert F., and Hosford. 3,061,144.
Brooks, Percy E. 3,054,887.
Brown, Raymond W. 3,016,142.
Burg, Martin S. 3,019,489.
Burke, Joseph L., and Sheehan. 3,021,815.
Cafferty, Aloysius G. 3,020,218.
Cafferty, Aloysius G., and Rosendahl. 3,023,879.
Cemashko, Fred. 3,036,801.
Chapman, Alan T. 3,066,697.
Charschan, Sidney S. 3,028,480.
Charschan, Sidney S. 3,048,689.
Christiansen, Milton J. 3,066,788.
Clagett, Robert P. 3,015,952.
Clark, Marion D., and Ward. 3,028,959.
Clemons, Dale R. 3,031,003.
Clifford, Eugene B., and Yarze. 3,034,633.
Cressman, Earl W., Jurnak, and Mueller. 3,050,836.
Cook, Donald F. 3,063,552.
Crockett, Thomas W., Grunfelder, and Sevebeck. 3,061,-798.
Crosby, Charles H., Dzugan, Hicks, and Wahlberg. 3,029,959.
Crosby, Charles H., Hicks, Pizzi, and Wahlberg. 3,023,-877.
Crosby, Charles H., Hicks, Wahl, and Wahlberg. 3,026,010.
Crosby, Charles H., Hicks, and Wahlberg. 3,017,450.
Cubbidge, James F., and Dixon. 3,057,452.
Davidson, Richard M. 3,064,060.
Dickson, Robert H., and Willitts. 3,059,587.
Drevalas, Constantine N. 3,049,758.
Drukker, Willard D. 3,028,886.
Dubats, Edward T. 3,041,908.
Dvorak, Howard A. 3,041,991.
Eger, Edward F. 3,036,694.
Eger, Edward F., and Simpson. 3,018,008.
Emery, Loring D., Jr. 3,063,867.
Etchison, John O., Jr., and Hutchins. 3,050,849.
Fairchild, Albert R., and Matthews. 3,039,952.
Falanga, Bruno J., and Gerlish. 3,052,040.
Fisher, Kenneth A. 3,039,059.
Fliezar, Geza B., and Monahan. 3,016,443.
Fliezar, Geza B., and Monahan. 3,028,887.
Fliezar, Geza B., and Monahan. 3,036,186.
Fliezar, Geza B., and Monahan. 3,041,128.
Fliezar, Geza B., and Monahan. 3,043,449.
Frank, Gerard A., and Kuba. 3,057,051.
Frank, Gerard A., Miller, and Monahan. 3,058,569.
Frankenfield, Bruce E., Malzahn, and Weigel. 3,026,452.
Frate, Domenico C. 3,017,765.
Fuchs, Francis J., Jr. 3,017,914.
Fuchs, Francis J., Jr. 3,064,711.
Fyfe, William A., and Shore. 3,045,739.
Gillis, Randall. 3,020,335.
Glaubke, Allen F. 3,027,154.
Gothe, Walter C., and Hinkle. 3,055,328.
Gothe, Walter C., and Hinkle. 3,064,607.
Hallam, Cecil A. 3,054,439.
Halverson, Richard E. 3,033,265.
Halverson, Richard E. 3,038,357.
Halverson, Richard E. 3,051,060.
Hancock, William M. 3,037,274.
Hardesty, Edwin C., and Myers. 3,024,497.

Western Electric Co., Inc.: *See*—Continued
Harris, Richard A. 3,056,650.
Heidergott, Harry W. 3,045,819.
Heinz, Alfred. 3,029,348.
Henning, George E. 3,020,248.
Henning, George E. 3,052,079.
Hicks, William T. 3,031,524.
Hjorth, Eugene P. 3,028,107.
Holoubek, Joseph B., and Lagler. 3,064,338.
Horn, Sheldon H. 3,060,073.
Horscroft, Richard G. 3,033,388.
Huber, Henri J., and Lipscomb. 3,056,317.
Humphreys, George W. 3,038,975.
Irons, Ralph D., and Weeks. 3,053,699.
Jensen, Norman R. 3,030,700.
Johnson, Clair A. 3,039,332.
Johnson, William A. 3,051,403.
Jordan, Harold K., and McCachern. 3,045,588.
Kalbow, Theodore W. 3,064,339.
Karau, Norbert B., and Stephens. 3,034,561.
Kent, William C. 3,016,080.
Kent, William C. 3,060,845.
Knochel, William J., and Schneider. 3,056,898.
Knochel, William J., and Wiley. 3,056,897.
Koch, Frank J. 3,023,897.
Kristoff, Walter W., Jr. 3,030,454.
Kruzic, Zelko J. 3,060,355.
Kulicke, Frederick W., Jr. 3,064,708.
Lamont, John. 3,018,377.
Lancaster, Robert A. 3,018,020.
Lancaster, Robert A. 3,034,562.
Larsen, Einer W. 3,024,815.
Larsen, Einer W. 3,027,740.
Leeds, Winthrop M. 3,060,294.
Lenk, Elmer N., Weeks, and Wiest. 3,054,036.
Lenk, Elmer N., Weeks, and Wiest. 3,054,090.
Lloyd, Harold E., and Owens. 3,063,346.
Lunsford, Gus. 3,069,634.
Marcus, Jerome R. 3,016,212.
Martin, Earl C. 3,045,337.
Martin, Samuel M. 3,052,010.
McCubbins, James T., Jr. 3,060,509.
McGraw, George P., Jr. 3,030,912.
McGraw, George P., Jr. 3,063,134.
Metzger, John R. 3,029,677.
Miller, Glenn E. 3,025,594.
Miller, Glenn E. 3,031,002.
Miner, Robert V. 3,032,814.
Mitchell, Henry D., Jr., and Williams. 3,027,921.
Mitchell, Henry D., Jr., and Williams. 3,037,268.
Moeller, Lowell J. 3,045,712.
Monahan, Jack J., and Shafer. 3,045,715.
Nadherny, Frank J., and Prymek. 3,017,175.
Nance, Taylor E. 3,057,325.
Noval, George J. 3,063,835.
Paynton, Harold G., Jr., and Welch. 3,036,309.
Pizzi, Albert L. 3,030,762.
Prymek, Milton C. 3,033,345.
Rayburn, Vincent A. 3,052,919.
Rayburn, Vincent A. 3,064,496.
Reichelt, Lester O. 3,040,512.
Reichelt, Lester O. 3,047,935.
Reichelt, Lester O., and Waters. 3,024,588.
Robinson, William C. 3,068,403.
Rosendahl, Lawrence E. 3,066,785.
Runge, Heinz F. 3,052,144.
Runge, Heinz F. 3,061,116.
Sack, Edgar A., Jr. 3,060,345.
Schalk, Robert F. Re. 25,271.
Schaufelberger, Henry W. 3,029,523.
Schaufelberger, Henry W. 3,047,941.
Shalgren, Ernest W. 3,024,768.
Shillington, Harry R. 3,042,859.
Shillington, Harry R. 3,042,860.
Shillington, Harry R. 3,048,774.
Shillington, Harry R. 3,054,052.
Siechta, Henry C. 3,028,826.
Soderman, George W. 3,020,680.
Spillar, Rudolph. 3,021,498.
Stephen, William F. 3,017,025.
Stetzler, Grant F. 3,042,865.
Stetzler, Grant F. 3,045,184.
Svoboda, George. 3,029,072.
Swanson, Nils H. 3,039,665.
Switch, Aloysius C. 3,025,817.
Tesche, Walter J. 3,023,547.
Tobey, Silas B. 3,043,908.
Toth, Peter, Jr., and Wiegner. 3,039,706.
Uffman, Leroy E. 3,017,976.
Wahl, Frank. 3,022,098.
Wahl, Frank. 3,025,903.
Wahl, Frank. 3,033,394.
Wahl, Frank. 3,038,674.
Wainrib, Jules. 3,060,110.
Webb, Robert G. 3,020,998.
Werth, Joseph R. 3,051,607.
Wessel, Hubert L. 3,037,068.
Whitehead, Paul L. 3,033,017.
Yen, Posheng. 3,063,544.

Western Felt Works: *See*—
Harris, Milton, and Mizell. 3,060,548.

Western Filter Co.: *See*—
Allen, Clifton H. 3,019,906.

Western Geophysical Co. of America: *See*—
Becker, Carl H. Re. 25,204.
Salvatori, Henry, and Bates. 3,024,079.
Salvatori, Henry, and Savit. 3,020,521.
Salvatori, Henry, Wells, and Glenn. 3,044,041.
Savit, Carl H. 3,045,241.
Walling, Orville D., and Thigpen. 3,034,127.

Western Gold and Platinum Co.: *See*—
Hack, Walter L. 3,056,195.

Western Gulf Oil Co.: *See*—
Beckett, Joseph K. 3,062,290.

Western Industries, Inc.: *See*—
Housman, William A. 3,058,518.

Western Kraft Corp.: *See*—
Hamilton, Joseph P. 3,055,570.

Western Piping & Engineering Co. Inc.: *See*—
Kinnison, Court J. 3,021,113.
Kinnison, Court J. 3,047,315.

Western Progress, Inc.: *See*—
Swezy, Montgomery C. 3,046,934.

Western Progress Manufacturers: *See*—
Doyle, Robert L. 3,061,343.

Western Reserve University: *See*—
Perry, James W. 3,066,280.

Western Rivers Corp.: *See*—
Kernahan, Richard H. 3,050,800.

Western Stamping Co.: *See*—
Thomson, James E. 3,045,902.
Thomson, James E. 3,048,940.
Thomson, James E. 3,057,449.

Western States Machine Co., The: *See*—
Goodwin, Ralph C. 3,031,039.

Western Supplies Co.: *See*—
Ladenburger, Max. 3,024,019.
Miller, William J., and Schroeder. 3,023,436.
Sahl, Eugene, and Tebeau. 3,038,390.

Western Tool and Stamping Co.: *See*—
Wistrom, Wayne M., and Cook. 3,038,735.
Wood, George I., and Wistrom. 3,055,438.

Western Union Telegraph Co., The: *See*—
Adams, Myron D., Johnson, Chojnowski, Eisner, Elich, and Glick. 3,057,956.
Boughtwood, John R., and Grybowski. 3,017,464.
Buckingham, William D., Lane, Ridge, and Turner. 3,056,034.
Cannon, William D. Re. 25,285.
Haupt, Frank J. 3,016,186.
Markley, William F., and Slater. 3,061,667.
Myer, Percy L. 3,060,799.
Ortiz, Andre A. 3,038,962.
Recca, Pasquale F., Swenson, and Johnson. 3,033,925.
Taylor, Roland C. 3,028,570.
Walker, Donald J., and Leonard. 3,038,961.
Worthen, George S., and Jelinek. 3,048,702.
Zabriskie, Douglas M. 3,039,104.

Western Unit Corp.: *See*—
Harbers, Henry C., and Hamlet. 3,052,487.
Harbers, Henry C., and Hamlet. 3,063,703.
Harbers, Henry C., and Hamlet. 3,063,732.
Harbers, Henry C., and Williams. 3,058,740.

Western Urn Mfg. Co.: *See*—
Tarrant, James H., and Anderson. 3,036,512.

Western Velo & Cement Specialties Co.: *See*—
Gooding, Willard H. 3,028,895.
Gooding, Willard H. 3,028,896.
Gooding, Willard H. 3,028,897.
Gooding, Willard H. 3,028,898.

Westervelt, Dean C., C. H. Vondracek, and C. F. Hofmann, to Westinghouse Electric Corp. Solid inorganic insulation for metallic conductors. 3,059,046, 10–16–62, Cl. 174—110.

Westfall, Hubert C.: *See*—
Galbraith, Sidney W., Perkins, and Westfall. 3,017,935.

Westfall, Paul F.: *See*—
Bremmer, John F., Wright, and Westfall. 3,070,256.
Lombardi, Louis J., Wright, and Westfall. 3,030,321.
Lombardi, Louis J., Wright, and Westfall. 3,030,332.

Westfall, Robert. Vernier caliper. 3,060,584, 10–30–62, Cl. 33—148.

Westfield, John A., ½ each to L. B. Skinner, and W. H. Williams. Pneumatic for piano player. 3,033,068, 5–8–62, Cl. 84—53.

Westgate, Oscar L., to The R. T. French Co. Closure for condiment containers and the like. 3,018,931, 1–30–62, Cl. 222—480.

Westhead, Stanley J.: *See*—
Horwitz, Henry L., Hasser, Cox, and Westhead. 3,037,084.

Westin, Axel: *See*—
Westin, Sven and A. 3,067,321.

Westin, Sven and A. Apparatus for electrically heating and forming cylindrical members. 3,067,321, 12–4–62, Cl. 219—152.

Westinghouse Air Brake Co.: *See*—
Baechtel, Clarence R. 3,017,959.
Baker, Benjamin P., and Karlicek. 3,032,689.
Beach, Earl F., and Coker. 3,032,632.
Bent, Arthur J. 3,018,073.
Blocher, Thomas J., Jr. 3,046,470.
Blosser, Herman G., and Allison. 3,026,507.
Bossart, Paul N. 3,065,347.
Bryan, Harold W. 3,046,391.
Bush, Rankin J. 3,015,464.

Westinghouse Air Brake Co.: *See*—Continued
Callender, Earl R. **3,030,480.**
Cameron, Mortimer B. 3,067,883.
Di Pietro, William P. 3,032,754.
Dodd, Arthur E. 3,046,393.
Doutt, Kingsley A. 3,048,354.
Draganjac, Michael J., Kleinhample, and Pappas. 3,035,232.
Eilard, George E. 3,054,889.
Emmel, David G. 3,024,964.
Failor, Charles W. **3,069,542.**
Feucht, Jacob E., and Dellner. 3,045,769.
Forster, Walter R., 3,063,470.
Gilbert, Chalmers W. 3,021,423.
Glass, William H., and Hancock. 3,043,496.
Hager, Robert E. 3,046,542.
Hartley, Robert R. 3,054,560.
Hess, Richard C. 3,061,765.
Hewitt, Ellis E. 3,022,116.
Hewitt, Ellis E. 3,022,117.
Hewitt, Ellis E. 3,035,549.
Hewitt, Ellis E. 3,043,321.
Hewitt, Ellis E. 3,043,495.
Hines, Claude M. 3,061,381.
Hursen, Thomas F., and McClure. **3,017,960.**
Jackel, Arthur P. 3,035,249.
Jefferson, Glen V. 3,015,724.
Jeffrey, William B. 3,063,306.
Logan, John W., Jr., and Rush. **3,068,900.**
Luft, Philip H. 3,035,107.
Luft, Philip H. 3,046,392.
May, Harry C. 3,022,119.
McLaughlin, Edward G. 3,021,519.
Mishelevich, Benjamin, and Tsiang. 3,046,394.
Mowery, Robert W. 3,034,892.
Olson, Paul E. 3,017,900.
Olson, Paul E. 3,031,853.
Olson, Paul E. 3,048,158.
Olson, Paul E., and Hewitt. 3,048,675.
Paolino, Charles, Jr. **3,070,478.**
Pascoe, Frank T. 3,015,722.
Pascoe, Frank T., and Allison. 3,041,448.
Poore, Wallace F., and May. 3,035,757.
Rowe, William D. 3,032,664.
Seger, Fritz O. 3,021,724.
Skantar, Elmer T. 3,063,756.
Staples, Crawford E. 3,015,723.
Staples, Crawford E. 3,046,454.
Wells, Richard H. 3,032,065.
Wilson, Richard L., and Jeffrey. 3,018,138.
Worbois, Robert J. 3,053,597.
Wright, Carl D., Jr. 3,063,757.
Westinghouse Brake and Signal Co. Ltd.: *See*—
Duckitt, Harry, and Sweetenham. 3,046,390.
Grose, Basil H., and Hurst. 3,035,248.
King, Kenneth G. 3,064,139.
Norton, David J. 3,026,456.
Shattock, Charles F. B., and Stone. **3,018,137.**
White, Edgar I. 3,021,508.
White, Edgar I. 3,026,426.
Westinghouse-Bremen-Gesellschaft. m.b.H.: *See*—
Gnade, Walter, and Pekrul. 3,053,335.
Nowack, Rudolf. 3,035,712.
Pekrul, Ewald. 3,068,050.
Westinghouse Electric Corp.: *See*—
Aarons, Melvin W., Dziubanski, and Bentley. **3,018,423.**
Ache, Richard P. 3,064,120.
Adamson, Floyd E., and Bichsel. 3,048,693.
Alm, Benjamin C., Jr. 3,048,712.
Alsing, Carl F. 3,040,538.
Alsing, Carl F. 3,054,940.
Amatel, Harold. 3,069,003.
Anderson, Melvin R., and Nelson. 3,040,994.
Anderson, Melvin R., and Seeley. 3,064,123.
Andres, Nickolas. 3,044,839.
Apfelbeck, Otto L., and Lee. **3,069,556.**
Ardito, William A. 3,055,030.
Asars, Juris A. 3,018,412.
Atti, Eros. 3,065,368.
Atti, Eros. 3,065,375.
Atti, Eros. 3,065,376.
Bailey, Francis T., and McLane. 3,059,161.
Baird, Norman F. 3,022,653.
Baker, Benjamin P. 3,066,823.
Baker, Benjamin P. 3,067,279.
Baker, Floyd A. 3,059,173.
Baker, Robert F. 3,025,765.
Banker, John R. 3,024,360.
Barnes, Donald K. 3,026,467.
Barrell, Robert F. 3,018,050.
Baudry, Rene A., and Whitney. 3,018,144.
Bauer, Hugo, May, and Lopenski. **3,017,852.**
Baugh, Charles W., Jr. 3,018,325.
Baugh, Charles W., Jr. 3,023,272.
Baugh, Charles W., Jr. 3,028,448.
Baugh, Charles W., Jr., and Kingsford-Smith. **3,018,327.**
Begley, Richard T., and France. 3,027,255.
Beirne, Henry, and Bell. 3,029,579.
Bell, Derrick C. 3,064,155.
Bellows, Dexter C. 3,039,600.
Benbow, Eugene C., and Knecht. **3,059,181.**
Bennett, Allan I. 3,058,915.
Bennett, Allan I., Jr. 3,031,403.

Westinghouse Electric Corp.: *See*—Continued
Berg, Daniel. 3,023,263.
Berg, Daniel, and Tanaka. 3,069,579.
Bichsel, Harry J., and Adamson. 3,048,692.
Bichsel, Harry J., and Adamson. 3,069,533.
Bishoff, Robert W., and Cope. 3,018,232.
Blazek, Robert J. 3,048,735.
Bolney, Joseph F., and Schulman. 3,048,508.
Bolef, Dan I., and Chester. 3,023,367.
Borneman, Edmond H., and Meyerhoff. 3,030,559.
Bowers, Raymond, and Ure. 3,054,842.
Boyce, Walter A., and Plagge. 3,018,187.
Boykin, John R. 3,065,910.
Brainerd, Gideon R. 3,026,440.
Bratkowski, Walter V., and Fischer. 3,055,098.
Bright, Richard L. 3,040,191.
Bright, Richard L., and Jackson. 3,018,380.
Brouwer, Frans. 3,027,516.
Brown, Myron J. 3,048,705.
Bryant, Ozro N. 3,026,889.
Buck, Richard M. 3,058,497.
Bullis, Earl, Jr. 3,018,342.
Burns, Robert T. 3,033,982.
Burt, Donald A., and Booker. **3,069,558.**
Byerly, Richard T. 3,048,337.
Camarata, Frank J. 3,025,426.
Cameron, Frank L. 3,069,520.
Cametti, Benjamin. 3,031,593.
Caputo, William R. 3,058,546.
Carissimi, Vincent L. 3,020,380.
Carissimi, Vincent L. 3,020,381.
Carissimi, Vincent L. 3,041,437.
Carlson, Raymond L. 3,064,879.
Carlson, Raymond L. 3,069,071.
Carroll, James C., and Thompson. 3,018,382.
Carroll, James C., Thompson, and Jones. 3,018,381.
Cerulli, Nicholas F. 3,023,338.
Chauvin, Bernard, and May. 3,017,991.
Chester, Peter F., and Boief. 3,023,366.
Chu, Ting L., and Longini. 3,058,812.
Cochran, John M., Seelhoff, and Banks. 3,023,352.
Colaiaco, August P. 3,018,424.
Colaiaco, August P. 3,045,167.
Colaiaco, August P. 3,045,224.
Colaiaco, August P., Miller, and Cham. 3,018,417.
Conrad, Joseph D., Jr. 3,021,719.
Cope, Richard P., Jr., and Drobne. 3,041,257.
Cornell, Archie R. 3,018,410.
Cornish, Albert J. 3,045,057.
Cornish, Albert J., and Miller. 3,018,312.
Corson, Bayard R. 3,054,923.
Costello, Thomas P. 3,030,532.
Cotter, George H., and Bichsel. 3,038,990.
Cotter, George H., Gamberg, and Bichsel. 3,030,496.
Crawford, Thomas G. 3,054,428.
Cyrus, Alva E. 3,038,774.
Davis, Pearl C. 3,019,071.
De Britz, Francis M., and Wisco. 3,048,200.
Deise, Louis F. 3,036,264.
De Paul, Alseno S., Gueck, and Morse. 3,064,152.
Derr, Willard A., and Gueuss. 3,048,820.
Derr, Willard A., and Metz. 3,040,297.
Dickinson, Robert C., and Olsson. 3,054,874.
Di Nicolantonio, Frank, Jr., and Brittain. 3,035,465.
Ditzler, John L. 3,057,172.
Dobbie, James. 3,040,187.
Dobrosielski, Stephen S., and Lang. 3,018,127.
Duffy, Philip A., Jr. 3,036,217.
Duncan, Robert B., and Fosburg. 3,063,516.
Easley, Gilbert J., Kane, and Schrameck. 3,040,149.
Eberhart, Arthur H. 3,063,357.
Edgerly, Charles R., Summers, and Gorski. 3,054,235.
Elbling, Irving N. 3,039,987.
Emmerich, Werner S. 3,048,736.
Enns, Mark K., and Skooglund. 3,069,613.
Farr, Kenneth E. 3,018,328.
Feduska, William, and Gainer. 3,036,139.
Fegely, Hugh S., and Till. 3,048,742.
Fellendorf, Frederick G. 3,045,168.
Fernald, Olaf H., and Heffron. 3,062,914.
Fields, Charles V., and Steele. 3,040,236.
Filipowsky, Richard F. 3,026,482.
Filipowsky, Richard F. J. 3,054,956.
Fischer, Robert L., Losco, and Lustman. 3,025,592.
Flinn, Paul A. 3,021,211.
Ford, James G. 3,044,900.
Freeman, James H., Robbins, and Sterling. 3,026,284.
Friedrich, Kevin F. 3,026,466.
Friedrich, Kevin F. 3,036,258.
Friedrich, Robert E., and Frakes. 3,059,044.
Friedrich, Robert E., and Lingal. 3,033,962.
Frink, Russell E. 3,024,331.
Frisch, Erling. 3,058,900.
Gainer, Gordon C., and Strom. 3,059,081.
Galtz, Charles S. 3,068,371.
Galtz, Charles S., and Guerdan. 3,027,472.
Gamberg, Edward R., and Cotter. 3,059,101.
Gamble, Dennis H., and Weimer. 3,042,890.
Gamel, Gayne D., and Hauser. 3,045,083.
Garbuny, Max, and Talbot. 3,056,062.
Garbuny, Max, and Vogl. 3,061,726.
Gieselman, Richard F., and West. 3,030,242.

Westinghouse Electric Corp.: *See*—Continued
Glassburn, William E. 3,036,243.
Goodman, Joseph L. 3,018,442.
Gotal, Joseph, and Conner. 3,040,240.
Guenther, Walter F. 3,020,467.
Hager, Guy Y. 3,040,203.
Hagg, Arthur C., and Cametti. 3,017,072.
Hagg, Arthur C., and Heitchue. 3,058,705.
Hamilton, Thomas, and Hawkey. 3,039,497.
Hanna, Clinton R. 3,035,852.
Harder, Edwin L. 3,027,084.
Hardy, John W. 3,064,144.
Harm, Alson R. 3,030,471.
Harmon, Ralph N., and Boykin. 3,063,345.
Harrover, Robert E., Jr. 3,054,734.
Hart, John J., and Sajben. 3,058,720.
Hatten, Bernard W., and Gallaer. 3,043,970.
Hawkey, Charles W. 3,063,473.
Hawkins, David M., and Abell. 3,036,254.
Heffron, Charles B., and Fernald. 3,045,062.
Heine, Thomas H., and Willson. 3,063,492.
Heins, James F., and Gasperetti. 3,045,171.
Henry, Edward N., and Piaia. 3,030,596.
Hetrick, George L. 3,059,203.
Hierholzer, Frank J., Jr., and Christensen. 3,023,357.
Hierholzer, Frank J., Jr., and Pittman. 3,059,191.
Higley, Robert E. 3,044,150.
Hodgson, Alfred W. 3,018,421.
Hodgson, Alfred W. 3,059,175.
Hood, William C., and Baldwin. 3,018,206.
Hopkins, Leland C. 3,030,656.
Horner, Clifford E., Quinn, and Thayer. 3,046,202.
Howarth, Wesley L., and Moy. 3,016,694.
Howell, John K., and Bean. 3,026,395.
Hudson, Bert T. 3,052,805.
Husby, Donald E., and Eberhart. 3,064,124.
Husby, Donald E., Eberhart, and Izzi. 3,065,338.
Ichikawa, Yoshio. 3,044,968.
Immel, Ralph B., and Wells. 3,040,146.
Innis, Robert T. 3,018,406.
Innis, Robert T. 3,018,407.
Innis, Robert T. 3,029,299.
Irvin, Charles F. 3,048,454.
John, Harold F. 3,054,701.
Johnson, David M. 3,048,201.
Johnson, Leslie A., and Shreffler. 3,031,590.
Jones, Wesley N. 3,040,237.
Kamphaus, Paul L., and Latham. 3,023,329.
Karlicek, Robert F., and Sandin. 3,018,416.
Karr, Francis R. 3,040,199.
Kaufman, William M. 3,066,230.
Keck, Merle E. 3,043,950.
Kelly, James M. and E. P., and Schmitt. 3,058,197.
Kennedy, Robert W. 3,063,772.
Kerr, Robert E., and Saviers. 3,061,198.
Kerstukos, Albert, Hooke, and Bollinger. 3,044,701.
Kessler, Leland L. 3,069,555.
Khu, Eric B. C. 3,043,911.
Kiesel, Kenneth A. 3,046,451.
Kingsford-Smith, Charles A. 3,038,033.
Knochel, William J., and Hall. 3,038,096.
Knochel, William J., Murphy, and Skwirut. 3,030,542.
Knudson, Brenton A. 3,048,446.
Koerner, Harry E., and McCanna. 3,048,696.
Koerner, Harry E., and Vaughn. 3,048,700.
Kozlovic, John M., and Wobrak. 3,030,463.
Kramer, Lloyd B., Kasberg, and Landkrohn. 3,018,357.
Kristofik, Joseph R. 3,023,550.
Kronke, John W., and Bartlett. 3,069,633.
Kyle, William K. 3,064,444.
Kyle, William K. 3,065,381.
Lamaster, Donald M. 3,027,509.
Large, William E. 3,026,450.
Latham, Albert W. 3,044,810.
Lauer, Rodney F. 3,045,448.
Lederer, Ernest A., and Miller. 3,037,834.
Leeds, Winthrop M. 3,043,940.
Leeds, Winthrop M., and Lingal. 3,045,086.
Lehmann, Willi. 3,040,201.
Lehmann, Willi. 3,040,202.
Lehmann, Willi. 3,048,731.
Lehmann, Willi. 3,054,919.
Lehmann, Willi, and Haake. 3,048,732.
Le May, Charlotte Z., and Chang. 3,063,876.
Leonhard, Werner. 3,048,755.
Lessmann, Gerhard P. 3,030,531.
Lewis, Charles W. 3,018,402.
Lide, Basil M., and Bush. 3,069,545.
Lillendahl, William C., and Keith. 3,054,654.
Lipman, Kenneth. 3,027,401.
Lippart, John, and Klein. 3,062,949.
Longstreth, Scott S. 3,048,691.
Lund, Alvin O., and Vanderzee. 3,017,957.
Lyman, Richard C., Van Nice, and Evans. 3,040,178.
Lyman, Wallace R. 3,033,007.
Lynn, Lawrence B. 3,017,778.
MacDonald, Alden F. 3,038,070.
MacGregor, Dean J. 3,020,462.
MacGregor, Dean J. 3,020,463.
MacGregor, Dean J. 3,023,349.
MacGregor, Dean J. 3,036,242.
Macha, Edward A., and Steele. 3,066,989.
Marbury, Ralph E. 3,018,427.

Westinghouse Electric Corp.: *See*—Continued
McClellan, Cyril E., and Rustad. 3,045,239.
McCloy, Graham S. 3,066,857.
McCowan, William E., and Guerdan. 3,051,858.
McLane, Fletcher E., Pollack, and Cochran. 3,023,351.
McNulty, John W. 3,026,607.
Metcalfe, Frederick S. 3,030,873.
Metcalfe, Frederick S. 3,058,279.
Meyer, Henry L. 3,036,236.
Meyerhoff, Alfred, and Stubbs. 3,063,206.
Meykar, Orest A. 3,054,933.
Meykar, Orest A. 3,059,165.
Mikina, Stanley J. 3,039,676.
Mikina, Stanley J. 3,042,289.
Miller, Lalan G. 3,040,309.
Millington, John H. T., and Fein. 3,068,905.
Mitchell, William H. 3,018,353.
Mixon, Joseph L. 3,017,892.
Mixon, Joseph L. 3,023,757.
Mixon, Joseph L. 3,029,827.
Moratis, Christy J., Ishikawa, and Pigan. 3,023,390.
Morgan, David W. 3,069,596.
Morisuye, Masanobu. 3,040,281.
Mort, David, and Jennings. 3,030,508.
Mrenna, Stephen A. 3,056,009.
Mrenna, Stephen A., and Graves. 3,048,685.
Mrenna, Stephen A., and Portman. 3,018,464.
Mueller, Erich O. 3,026,433.
Mueller, Erich O. 3,048,724.
Mueller, Erich O. 3,068,800.
Mullen, John H., and Born. 3,018,338.
Mullen, John H., and Born. 3,027,441.
Narbut, Paul. 3,026,492.
Netzel, Leonard J. 3,055,205.
Newberry, Meigs W. 3,036,730.
Newhouse, Paul D. 3,040,317.
Nicholson, James F. 3,020,432.
Nicholson, James F. 3,046,431.
Nicholson, James F. 3,048,502.
Nicholson, James F., and Simpson. 3,020,442.
Nissenson, Phineas S. 3,030,574.
Noiles, Douglas G., and Sajban. 3,046,876.
Osborn, John A., and Hall. 3,027,281.
Osmundsen, Norman K., and Bogner. 3,064,164.
Palmer, Karl, and Hinman. 3,048,676.
Parr, Bernard F. 3,029,725.
Parr, Bernard F. 3,030,487.
Pastoret, John E., and Krapf. 3,069,606.
Pavlovic, Dusan, Foster, and Osborn. 3,058,857.
Pechy, William. 3,044,327.
Pechy, William. 3,058,615.
Pennow, Willis A. 3,054,913.
Perkins, Harley A., Jr. 3,030,570.
Perkins, Harley A., Jr. 3,040,242.
Peters, Emil H. 3,018,428.
Petrick, William R., and Travis. 3,018,326.
Piala, Carl, Jr., and Dieter. 3,030,597.
Piltz, Frankiin, and Eight. 3,040,224.
Pittman, Paul F. 3,030,523.
Ralston, Edgar K., and McGill. 3,048,809.
Rau Frank J. 3,069,672.
Rebuffoni, Martin. 3,018,361.
Reichner, Philip. 3,045,675.
Reilly, Charles P., and Gorecki. 3,069,582.
Repsher, Robert W. 3,023,337.
Repsher, Robert W. 3,023,340.
Reuther, John F., and Sandin. 3,058,036.
Reverman, George H. 3,068,563.
Rexroad, James O. 3,054,866.
Reza, Syed K. 3,059,159.
Rimbach, Henry W. 3,025,423.
Rimbach, Henry W. 3,048,737.
Rimmer, Robert V. 3,054,867.
Rimmer, Robert V., and Born. 3,035,859.
Roberts, Ronald W., and Conry. 3,068,698.
Roerty, Dennis F. 3,026,165.
Rogers, Dow A., Jr. 3,054,770.
Rogers, Dow A., Jr., and Hillen. 3,026,222.
Rogers, Dow A., Jr., Schake, and Minter. 3,036,023.
Rosa, John. 3,020,468.
Rosenberg, Barnett. 3,015,747.
Rowe, William D. 3,018,388.
Royer, George H. 3,024,369.
Rugg, Harold H., and Wortman. 3,061,665.
Runk, Robert H., and Fdelman. Re. 25,213.
Sabol, Victor F., and Sivly. 3,036,184.
Sack, Edgar A. 3,059,147.
Sandin, Jerome. 3,058,034.
Sanford, Stuart P. 3,048,521.
Savage, Conwell. 3,064,106.
Schaaf, Bernard W., Jr. 3,018,358.
Schaelchlin, Walter, and Storey. 3,030,565.
Scherer, Erich H. 3,048,784.
Schibley, Raymond D. 3,058,737.
Schmidt, Warren J., and Salowe. 3,058,223.
Schneeberger, Robert J. 3,038,095.
Schramm, Jacob H. 3,026,197.
Schubert, Ernest J. 3,064,237.
Schwarckopf, Joseph G., and Humes. 3,040,249.
Scott, Charles L. 3,036,240.
Semar, Harold W. 3,015,523.
Shaffer, Robert A., and McIntyre. 3,040,200.
Simmonds, William H. 3,029,844.

Westinghouse Electric Corp.: *See*—Continued
Skiliman, William A., Evanus, and Mooney. 3,018,478.
Skinner, Kenneth K., and Sienkiewicz. 3,018,329.
Slack, Charles M., and Roman. 3,058,897.
Slack, Charles M., Roman, Krasik, and Purcell. 3,039,945.
Smart, Ernest F. 3,065,521.
Smeltzer, George S. 3,030,550.
Smith, Harry B., Mooney, and Ewanus. 3,023,409.
Smith, Uel L. 3,059,182.
Snowman, William H. 3,063,775.
Snyder, Carl J. 3,059,239.
Soja, Matthew. 3,018,330.
Soles, Otto H., and Kane. 3,023,291.
Specht, Theodore R. 3,064,220.
Squires, Rathbun B. 3,058,660.
Stanley, Harry T. 3,018,401.
Stauffer, Robert J. 3,048,323.
Stein, Gerhard M., and Specht. 3,069,643.
Steinert, Emil F., and Rebuffoni. 3,069,614.
Steinert, Emil F., Rebuffoni, Pettit, and Cossaboom. 3,058,031.
Stringer, Loren F., and Stuart. 3,063,632.
Strull, Gene. 3,023,347.
Strull, Gene. 3,063,879.
Strull, Gene. 3,064,132.
Strull, Gene, and Henkels. 3,054,912.
Sturtz, William E., and Dvirsch. 3,015,616.
Sueker, Keith H., and Blackmond. 3,023,356.
Sullivan, Jimmie D. 3,047,694.
Summers, William J., and May. 3,029,846.
Suozzo, John, and Caputo. 3,040,838.
Swaneck, Anthony J., Jr., and Ewers. 3,038,218.
Sweeney, Harold E., and Sauch. 3,069,679.
Sziklai, George C. 3,020,438.
Tabisz, Sylvester C. 3,069,561.
Thomas, Eugene P. 3,048,701.
Thompson, Francis T. 3,048,824.
Thorel, John P., Mel, and Flaton. 3,050,943.
Thorton, William A., Jr. 3,044,902.
Upton, Chester W., Jr., and Beach. 3,027,439.
Upton, Chester W., Jr., and Beach. 3,047,686.
Van Nice, Robert I., and Evans. 3,048,331.
Vester, Benjamin H., Jr. 3,036,293.
Vodoklys, Frank V. 3,023,339.
Wachtel, Anselm. 3,039,972.
Wagner, Howard A. 3,018,425.
Wagner, Howard A. 3,023,346.
Wagner, Howard A. 3,035,416.
Wagner, Howard A. 3,064,179.
Wagner, Howard A. 3,068,382.
Wagner, Robert H. 3,030,607.
Waldbauer, Walter M. 3,018,081.
Walker, Alec H. B. 3,040,230.
Walker, Edward J., and Christiansen. 3,040,234.
Wallace, John W. 3,069,605.
Wallace, John W., and Hull. 3,045,517.
Wallace, John W., Hull, and Moore. 3,049,036.
Ward, Emmett J., and McKnight. 3,069,673.
Waters, Edward H. 3,069,519.
Waters, Robert S. 3,059,090.
Waters, Robert S. 3,069,525.
Webb, Bryan, Jr. 3,026,470.
Weber, Sylvester A. 3,060,726.
Weeks, Norman E. Jr. 3,049,873.
Wei, Hsin H. 3,018,447.
Wei, Hsin H. 3,054,955.
Weisman, Paul, and Carroll. 3,026,468.
Wells, Bruce C., and Armstrong. 3,064,104.
Wentz, Edward C., Moore, and Albright. 3,023,386.
Westervelt, Dean C., Vondracek, and Hofmann. 3,059,046.
Young, Robert G. 3,018,403.
Westlake, Edward B., Jr. Mandrel. 3,030,246, 4–17–62, Cl. 260—52.
Westlake, Edward B., Jr. Plural walled container. 3,058,624, 10–16–62, Cl. 222—107.
Westlund, Roger D.: *See*—
Moore, James A., Westland, Nicolaides, and Dice. 3,030,388.
Westlin, Karl L., to American Air Filter Co., Inc. Electrostatic precipitator. 3,017,952, 1–23–62, Cl. 183—7.
Westling, Kenneth R. Putting practice device. 3,019,023, 1–30–62, Cl. 273—177.
Westlund, Roy A., Jr.: *See*—
Murray, John L., and Westlund. 3,046,225.
Panzer, Jerome, and Westlund. 3,019,187.
Westman, George H. Liquid purification apparatus. 3,056,419, 10–2–62, Cl. 137—209.
West Michigan Steel Foundry Co.: *See*—
Dalton, Thomas B. 3,064,944
Westmijze, Willem K.: *See*—
Duinker, Simon, Stuijts, Wijn, and Westmijze. 3,023,166.
Westmoreland, Edward I. Gas operated automatic revolver. 3,045,556, 7–24–62, Cl. 89—191.
Westmoreland Metal Mfg. Co.: *See*—
Cusack, Joseph E. 3,067,985.
Westmoreland Plastics Co., Inc.: *See*—
Skinner, Harvey G. 3,058,085.
White, Marshall P. 3,018,456.
Wickerham, William R. 3,045,162.
Widmer, Thomas F. 3,070,715.
Wigert, John W. 3,035,419.
Westmoreland Plastics Co., Inc.: *See*—Continued
Willard, Frank G., and Ross. 3,017,984.
Williams, William J., and Gefiken. 3,063,709.
Williams, William J., and Rehberg. 3,018,007.
Wilson, Merrideth D. 3,023,023.
Wilson, William E. 3,026,443.
Wilson, William E. 3,063,478.
Wilson, William E., and Nicolaro. 3,068,909.
Winer, Bernard B., and Sorokin. 3,044,838.
Winter, William E., and Diaz. 3,069,239.
Witte, Frederick W. 3,054,953.
Wollentin, Alvin O. 3,044,529.
Wright, James M. 3,040,561.
Wyman, Burton A., and Burns. 3,035,802.
Yeoman, Frederick A. 3,045,132.
Zito, Ralph, Jr. 3,040,625.
Zollinger, Howard A. 3,049,656.
Westneat, Arthur S., Jr., to Electro-Mechanical Research, Inc. Frequency modulated crystal oscillator. 3,061,802, 10–30–62, Cl. 332—26.
Weston, Arthur W., to Abbott Laboratories. Diphenyl 4-piperidyl carbinol and its acid-addition salts. 3,052,685, 9–4–62, Cl. 260—294.7.
Weston Chemical Corp.: *See*—
Friedman, Lester. 3,039,993.
Friedman, Lester. 3,061,625.
Friedman, Lester, and Gould. 3,047,608.
Friedman, Lester, and Gould. 3,053,878.
Weston, David. Reagentizing solids for flotation separation. 3,033,363, 5–8–62, Cl. 209—9.
Weston, David. Treatment and recovery of material by flotation. 3,033,364, 5–8–62, Cl. 209—9.
Weston, George O.: *See*—
Burn, Derek, Kirk, Petrow, and Weston. 3,023,206.
Petrow, Vladimir, and Weston. 3,040,035.
Weston Hydraulics, Ltd.: *See*—
Cox, Robert M. 3,067,979.
Stedman, Hubert Q., Jr., and Danoras. 3,058,038.
Weston Laboratories, Inc.: *See*—
Sapit, Donald T., and Ewers. 3,017,879.
Weston, Lawrence G., and R. F. Lense, to John R. Nalbach Engineering Co. Gas injection nozzle assembly. 3,027,922, 4–3–62, Cl. 141—20.
Weston, Lawrence P. Garment. 3,043,307, 7–10–62, Cl. 128—295.
Weston, Lawrence P. Inflatable rim pulley. 3,048,048, 8–7–62, Cl. 74—230.7.
Westover, Thomas A.: *See*—
Willey, Frank G., and Westover. 3,018,555.
Westover, Thomas A., and R. Rosett, to Servo Corp. of America. Infrared ranging system. 3,054,898, 9–18–62, Cl. 250—83.3.
West Penn Closure Corp.: *See*—
Donaldson, Leonhart N. 3,024,523.
Westphal, James A., to Sinclair Research, Inc. Magnetometers and gravimeters. 3,066,255, 11–27–62, Cl. 324—48.
West Point Mfg. Co.: *See*—
Charlton, Richard E., Jr., Manning, and Payne. 3,052,928.
Cotton, James F., and Nevels. 3,027,270.
Etchison, Gibson O. 3,063,128.
Etchison, Gibson O. 3,063,784.
Hogg, James C., and Pfaff. 3,021,949.
Strother, Fred P. 3,019,972.
Strother, Fred P. 3,030,853.
Strother, Fred P. 3,037,122.
Strother, Fred P. 3,069,487.
Wilson, Charles C., Dunn, and McAngus. 3,029,179.
Westrip Laboratories, Inc.: *See*—
Wolber, John R. 3,054,341.
West Virginia Pulp and Paper Co.: *See*—
Ball, Frank J. 3,017,404.
Ball, Frank J. 3,056,708.
Ball, Frank J., and Vardell. 3,048,576.
Brundige, Maurice M. 3,024,129.
Burgess, William H., Jr., Calehuff, and Freuler. 3,066,067.
Calehuff, Girard L., and Freuler. 3,066,068.
Carlson, Arne B. 3,017,373.
Doughty, Joseph B. 3,020,232.
Kessler, Richard P. 3,025,768.
Lohnas, John D., and Carlson. 3,060,044.
Obenshain, David N. 3,015,230.
Obenshain, David N. 3,062,539.
Preen, Robert E. 3,057,531.
Sackses, Peter K., and Cornell. 3,035,967.
Stine, Ira A., and McManus. 3,040,094.
Stumpf, Howard, Jr. 3,021,042.
Turai, Leslie L. 3,030,323.
Von Koeppen, Andreas, and Luthgens. 3,055,792.
Wood, John L. 3,034,224.
Wetherill, Lewis A.: *See*—
Graham, William, Ritchie, and Wetherill. 3,040,071.
Wethington, Jesse B.: *See*—
West, Clifton F., Wethington, and Rhem. 3,051,285.
Wethly, Frans, to Allied Chemical Corp. Method for processing, distribution and combustion of coke-oven gas containing ammonia. 3,020,138, 2–6–62, Cl. 48—190.
Wethly, Frans, to Allied Chemical Corp. Method for charging a coke-oven battery. 3,070,516, 12–25–62, Cl. 202—36.
Wetlesen, Robert B. Litter bins or baskets for receiving waste material in public places. 3,057,506, 10–9–62, Cl. 220—17.

Wetmore, Earnest M. Grinding and mixing apparatus. 3,062,-461, 11–6–62, Cl. 241—98.
Wetmore, Harold B.: *See*—
Young, William W., and Wetmore. 3,020,770.
Wetterau, Paul: *See*—
Biskup, John, Johnson, and Wetterau. 3,068,118.
Wetterhahn, George H., General Motors Corp. Internal combustion engine lubricating system. 3,033,314, 5–8–62, Cl. 184—6.
Wettstein, Albert: *See*—
Gaeumann, Ernst, Prelog, and Wettstein. 3,039,924.
Jeger, Oskar, Arigoni, Anner, Meystre, and Wettstein. 3,040,040.
Prelog, Vladimir, Gaeumann, and Wettstein. 3,055,807.
Reichstein, Tadeus, Wettstein, Anner, Billeter, Heusler, Neher, Schmidlin, Ueberwasser, and Wieland. 3,033,-858.
Reichstein, Tadeus, Wettstein, Anner, Billeter, Heusler, Neher, Schmidlin, Ueberwasser, and Wieland. 3,035,-949.
Wettstein, Albert, and K. Heusler, to Ciba Pharmaceutical Products Inc. Process for the manufacture of allopregnanes. 3,026,336, 3–20–62, Cl. 260—397.4.
Wettstein, Albert, G. Anner, C. Meystre, P. Wieland, L. Ehmann, K. Heusler, A. Hunger, and J. Kebrle, to Ciba Pharmaceutical Products Inc. Process for the manufacture of a new 16α-methyl-17α-hydroxy-allopregnane. 3,026,340, 3–20–62, Cl. 260—397.45.
Wettstein, Albert, R. Neher, P.-A. De Saulles, E. Vischer, and P. Wieland, to Ciba Pharmaceutical Products Inc. 16-oxy-pregnanes. 3,033,748, 5–8–62, Cl. 167—65.
Wettstein, Albert, R. Neher, E. Vischer, and P. Wieland, to Ciba Pharmaceutical Products Inc. 19-nor-16-oxy-allopregnanes. 3,033,749, 5–8–62, Cl. 167—65.
Wettstein, Albert, and E. Vischer, to Ciba Pharmaceutical Products Inc. Process for the manufacture of 11α-hydroxy-6α-halogen-pregnenes. 3,033,750, 5–8–62, Cl. 195—51.
Wettstein, Albert, G. Anner, C. Meystre, P. Wieland, L. Ehmann, K. Heusler, A. Hunger, and J. Kebrle, to Ciba Pharmaceutical Products Inc. Process for the manufacture of a new dexamethasone ester. 3,033,881, 5–8–62, Cl. 260—397.45.
Wettstein, Albert, K. Heusler, and P. Wieland, to Ciba Corp. New 18-oxygenated steroids and process for their manufacture. 3,040,039, 6–19–62, Cl. 260—239.55.
Wettstein, Albert, G. Anner, C. Meystre, P. Wieland, L. Ehmann, K. Heusler, A. Hunger, and J. Kebrle, to Ciba Corp. Δ⁹(11)-allopregnene and process for its manufacture. 3,040,072, 6–19–62, Cl. 260—397.45.
Wettstein, Albert, and G. Anner, to Ciba Corp. New 11-alkylated steroids and process for preparing same. 3,048,-606, 8–7–62, Cl. 260—397.45.
Wettstein, Albert, E. Vischer, J. Urech, and O. Jeger, to Ciba Corp. Process for the manufacture of 11α,18-dihydroxy-progesterone. 3,055,806, 9–25–62, Cl. 195—51.
Wettstein, Albert, G. Anner, and J. Kebrle, to Ciba Corp. Process for producing 6-halo-17-hydroxy pregnanes and intermediates therein. 3,055,887, 9–25–62, Cl. 260—239.55.
Wettstein, Albert, G. Anner, K. Heusler, and P. Wieland, to Ciba Corp. Process for the oxidation of 20-hydroxy-pregnanes. 3,056,779, 10–2–62, Cl. 260—239.57.
Wettstein, Albert, E. Vischer, F. W. Kahnt, C. Meystre, and R. Neher, to Ciba Corp. Manufacture of new products of enzymatic oxidation. 3,060,100, 10–23–62, Cl. 195—51.
Wettstein, Albert, G. Anner, and L. Ehmann, to Ciba Corp. Esters of the androstane series and process for their manufacture. 3,060,174, 10–23–62, Cl. 260—239.5.
Wettstein, Albert, and C. Meystre, to Ciba Corp. Process for the manufacture of 3-keto-16-alkyl-17α-hydroxy-pregnane-20-ones. 3,060,207, 10–23–62, Cl. 260—397.45.
Wettstein, Albert, G. Anner, K. Heusler, J. Kalvoda, and H. Ueberwasser, to Ciba Corp. 19-oxygenated steroids and process for their manufacture. 3,067,198, 12–4–62, Cl. 260—239.55.
Wettstein, Fritz A., to Volvo, Aktiebolaget. Resilient bushing or piston element. 3,046,062, 7–24–62, Cl. 308—4.
Wettstein, Fritz A., to Volvo, Aktiegolaget. Sealing device for hydraulic systems. 3,059,937, 10–23–62, Cl. 277—110.
Wetzel, Donald C., to Cleveland Technical Center, Inc. Snow removal apparatus. 3,041,748, 7–3–62, Cl. 37—19.
Wetzel, John W.: *See*—
Cram, Kenneth H., and Wetzel. 3,033,727.
Wetzel, William C., to The Electric Auto-Lite Co. Horn frame mounting means. 3,041,601, 6–26–62, Cl. 340—391.
Wetzger, Joachim, F.-W. Neumann, and A. Wiesner, to Siemens-Schuckertwerke Aktiengesellschaft. Position control apparatus. 3,054,924, 9–18–62, Cl. 314—71.
Wetzler, Justin J. Adjustable bed. 3,036,314, 5–29–62, Cl. 5—63.
Wetzler, Justin J., to The Englander Co. Inc. Apparatus and method for making a mattress structure. 3,040,473, 6–26–62, Cl. 45—138.
Wetzler, Justin J. Adjustable bed. 3,059,248, 10–23–62, Cl. 5—63.
Wexell, Harry W., to Soderhamns Verkstader Aktiebolag. Wood chipping machine. 3,032,281, 5–1–62, Cl. 241—92.
Wexell, Harry W., to Soderhamn Verkstader AB. Wood chipper. 3,069,101, 12–18–62, Cl. 241—92.
Wexler, Arnold, A. Krinsky, and S. B. Garfinkel, to United States of America, Navy. Adsorption electric hygrometer. 3,022,667, 2–27,62, Cl. 73—336.5.
Wexler, Charles H.: *See*—
Pierce, David W., and Wexler. 3,050,857.
Wexler, Joseph. Machine for folding and wrapping paper bundles. 3,053,024, 9–11–62, Cl. 53—120.
Wexler, Mandell S. Examining apparatus. 3,047,124, 7–31–62, Cl. 198—33.
Wexler, Vernon K., to Eastman Kodak Co. Method and apparatus for forming tobacco smoke filters. 3,016,945, 1–16–62, Cl. 131—1.7.
Wey, Hermann, to Machine Tool Works Oerlikon Administration Co. Device for guiding an ammunition belt. 3,029,-706, 4–17–62, Cl. 89—33.
Weyant, Romer G.: *See*—
Sailor, Vernon R., and Weyant. 3,049,202.
Weyde, Edith, to Agfa Aktiengesellschaft. Process and material for the direct production of positives by the silver salt diffusion process. 3,043,691, 7–10–62, Cl. 96—29.
Weyde, Edith, to Agfa Aktiengesellschaft. Production of transfer images by the silver salt diffusion process. 3,067,-033, 12–4–62, Cl. 96—28.
Weyel, Otto A.: *See*—
Neuhaus, Herbert, Kosmider, and Weyel. 3,061,299.
Weyer, Donald E., to Dow Corning Corp. Method of obtaining room temperature organopolysiloxane resin foams and product obtained therefrom. 3,024,210, 3–6–62, Cl. 260—2.5.
Weyer, Henry A.: *See*—
Clarke, Eugene C., and Weyer. 3,048,019.
Weyer, Rudi: *See*—
Aumuller, Walter, Weyer, and Korger. 3,068,282.
Sturm, Karl, Siedel, and Weyer. 3,058,882.
Weyerhaeuser Co.: *See*—
Campbell, Claude N., Jr. 3,022,841.
Matter, George B. 3,056,173.
Matter, George B. 3,061,206.
Sherman, Charles A., 3,044,508.
Weyerts, Walter J.: *See*—
Salminen, Wilho M., and Weyerts. 3,062,649.
Weyerts, Walter J., and J. C. Barnes, to Eastman Kodak Co. Photographic colloid transfer process. 3,043,688, 7–10–62, Cl. 96—28.
Weygand, Friedrich, and R. Geiger, to Farbwerke Hoescht Aktiengesellschaft vormals Meister Lucius & Bruning. Process for preparing optically active amino acids from protein hydrolysates. 3,030,380, 4–17–62, Cl. 260—326.3.
Weymann, Charles T. Automatic drive. 3,039,321, 6–19–62, Cl. 74—305.5.
Weymouth, Frederick R., Jr., to Trico Products Corp. Vehicle door locking system. 3,021,912, 2–20–62, Cl. 180—82.
Weymouth, Jack C., ½ to R. Horvath. Electrical starting clip for a model airplane engine. 3,038,971, 6–12–62, Cl. 200,1.
Weymouth, Jack C., ½ to R. Horvath. Flight control device for a model airplane. 3,053,533, 9–11–62, Cl. 272—31.
Wezel, Walter: *See*—
Schmid, Richard, and Wezel. 3,058,149.
Weckerly, Russell N., Sucha, Baker. 3,057,983.
Whalen, Frank B., to Lone Star Boat Co. Boat trailer having frame tilting means. 3,043,459, 7–10–62, Cl. 214—506.
Whaley, John A., and W. R. Houser, to General Motors Corp. Spark plug tester. 3,035,224, 5–15–62, Cl. 324—16.
Whaley, Thomas P.: *See*—
Norman, Vello, and Whaley. 3,018,194.
Norman, Vello, and Whaley. 3,061,464.
Norman, Vello, and Whaley. 3,061,465.
Whaley, William. Control systems for loading machines. 3,038,618, 6–12–62, Cl. 214—91.
Whaley, Wilson M.: *See*—
Rogers, William I., and Whaley. 3,061,444.
Wharff, Prentice C., Jr.: *See*—
Crane, Robert A., and Wharff. 3,065,632.
Crane, Robert A., and Wharff. 3,067,607.
Wharff, Prentice C., Jr., to The Dow Chemical Co. Sampling valve. 3,034,528, 5–15–62, Cl. 137—246.22.
Wharton, Alice M.: *See*—
Wharton, John. 3,030,831.
Wharton, John: *See*—
Dash, George C., Wise, and Wharton. 3,038,777.
Wharton, John, deceased, A. M. Wharton, executrix, to Wharton & Wilcocks Ltd. Design and construction of jigs and fixtures. 3,030,831, 4–24–62, Cl. 77—62.
Wharton & Wilcocks Ltd.: *See*—
Wharton, John. 3,030,831.
Wharton, William. Aircraft. 3,041,009, 6–26–62, Cl. 244—12.
Whately, Walter R.: *See*—
Myers, Myron L., and Whately. 3,015,573.
Whatley, Marvin E., and W. M. Woods, to United States of America, Atomic Energy Commission. Liquid cyclone contactor. 3,052,361, 9–4–62, Cl. 210—512.
Wheat, Carl. Trash loader. 3,057,498, 10–9–62, Cl. 214—314.
Wheatley, Robert L., to Rea Magnet Wire Co., Inc. Tapered spool. 3,021,092, 2–13–62, Cl. 242—128.
Wheatley, Robert L., and H. C. N. Heckel, to Rea Magnet Wire Co., Inc. Heat resistant insulated electrical components and process of making. 3,030,257, 4–17–62, Cl. 156—52.
Wheatley, Charles. Double sealed gate valve. 3,050,077, 8–21–62, Cl. 137—312.
Wheatley, John B., to General Motors Corp. By-pass duct for gas turbine engine. 3,070,131, 12–25–62, Cl. 138—115.
Wheatley, Seth J., and H. W. Reynolds. Tool for removing ferrules. 3,067,502, 12–11–62, Cl. 29—255.

Wheaton, Jack M., to Owens-Illinois Glass Co. Container closing machinery. 3,040,493, 6–26–62, Cl. 53—167.
Wheaton Plastics Co., Inc. : *See*—
Musel, Robert J. 3,063,589.
Wheaton, Scott R., and S. P. Becker, to Fargo Mfg. Co., Inc. Connector. 3,036,147, 5–22–62, Cl. 174—84.
Wheel Aligning Necessities, Inc. : *See*—
Castiglia, Biagis. 3,023,511.
Wheelabrator Corp. : *See*—
Pelley, Perry H., and Paul. 3,067,021.
Wheelbarger, Albert S. : *See*—
Ruck, George W., and Wheelbarger. 3,024,987.
Wheeldex Mfg. Co., Inc. : *See*—
Scholfield, Richard P. 3,054,202.
Wheeler, Byron E., to Baldwin-Lima-Hamilton Corp. Governor transfer valve. 3,037,526, 6–5–62, Cl. 137—636.4.
Wheeler, C. H., Mfg. Co., The : *See*—
Droescher, Le Roy A. 3,070,157.
Patterson, Joseph C., Sr. 3,065,862.
Wheeler, Charles J. Tool for parting elongated fracturable members. 3,048,920, 8–14–62, Cl. 30—92.
Wheeler, Charles J. Apparatus for igniting a torch. 3,052,-112, 9–4–62, Cl. 67—20.1.
Wheeler, Charles J., to W. L. Jordan and M. L. Farrell. Line release attachment. 3,057,106, 10–9–62, Cl. 43—25.
Wheeler, Charles J., ½ to T. E. Fisher, and L. L. Heinke, a partnership composed of T. E. Fisher and L. L. Heinke, ½ to Pete and Fisher, and ½ to L. L. Heinke. Anchor. 3,059,607, 10–23–62, Cl. 114—208.
Wheeler, Charles M., and P. M. Folger, to General Electric Co. Ventilation of dynamoelectric machine drive units. 3,020,427, 2–6–62, Cl. 310—59.
Wheeler, Donald B., and W. B. Kennedy, to Union Bag-Camp Paper Corp. Composite pack with expandable honeycomb partition. 3,044,679, 7–17–62, Cl. 229—15.
Wheeler, Donald D., to The Dow Chemical Co. Para hydroxy alkyl aromatic carboxylic acids and polymers thereof. 3,054,779, 9–18–62, Cl. 260—78.3.
Wheeler, Donald H., and E. R. Rogier, to General Mills, Inc. Composition comprising polyvinyl chloride plasticized with esters of heptadecanedicarboxylic acid. 3,016,359, 1–9–62, Cl. 260—31.8.
Wheeler, Edward N., and G. J. Fisher, to Celanese Corp. of America. Aluminum chloride solutions. 3,029,253, 4–10–62, Cl. 260—343.9.
Wheeler, Edward S., W. K. Griesinger, and N. H. Ellis, to The Atlantic Refining Co. Catalyst and process for the production of meta-dioxanes. 3,036,090, 5–22–62, Cl. 260—340.7.
Wheeler, Elwood L. : *See*—
Spaulding, Carl P., and Wheeler. 3,054,996.
Wheeler, Elwood L. : *See*—
Tracey, John E., and Wheeler. 3,043,165.
Wheeler, Everett T. Venting fasteners for attaching sheathing to hollow walls. 3,023,687, 3–6–62, Cl. 98—31.
Wheeler, Everett T. Ventilating fastener for fastening weather-protecting boards to walls. 3,057,285, 10–9–62, Cl. 98—37.
Wheeler, Floyd C., and T. E. Finch, to General Electric Co. Connector assembly. 3,061,704, 10–30–62, Cl. 219—26.
Wheeler, Gershon J., to Sylvania Electric Products Inc. Broadband compact junction circulator. 3,070,760, 12–25–62, Cl. 333—1.1.
Wheeler, Harry L., Jr., to California Institute Research Foundation. Porous wall turbine blades and method of manufacture. 3,067,982, 12–11–62, Cl. 253—39.1.
Wheeler, Harvey B. : *See*—
Patterson, James R., Wheeler, and Freeman. 3,032,533.
Wheeler, James E. Aircraft hanger doors. 3,028,639, 4–10–62, Cl. 20—19.
Wheeler, James E. Switch structure. 3,035,131, 5–15–62, Cl. 200—61.41.
Wheeler, John L. : *See*—
Rugaber, Robert H., Wheeler, and Townsend. 3,037,130.
Wheeler, Joseph S., Jr., to Wheeler Valve and Pump Co. Valve. 3,026,901, 3–27–62, Cl. 137—454.2.
Wheeler, Lisle L., and R. F. Garbarini, to Sperry Rand Corp. Bombing-navigational computer. 3,033,084, 5–8–62, Cl. 89—1.5.
Wheeler, Norris G., to E. I. du Pont de Nemours and Co. Production of phthalocyanine colors in pigmentary state. 3,051,718, 8–28–62, Cl. 260—314.5.
Wheeler, Ora L., and H. D. Smyser, to Air Reduction Co., Inc. Preparation of polyvinyl alcohol. 3,036,054, 5–22–62, Cl. 260—89.1.
Wheeler, Reynold E. : *See*—
Frechette, Leo P., Jr., McGrath, Charboneau, and Wheeler. 3,038,582.
Wheeler, Reynold E., to Royal McBee Corp. Line lock apparatus. 3,025,940, 3–20–62, Cl. 197—17.
Wheeler, Robert B. : *See*—
Farnsworth, Carl D., and Wheeler. 3,068,179.
Wheeler Valve and Pump Co. : *See*—
Wheeler, Joseph S., Jr. 3,026,901.
Wheeler, Walter G., and O. B. Wendell, to The Hufford Corp. Stretch leveling apparatus and method. 3,018,817, 1–30–62, Cl. 153—35.
Wheeler, Watson O. : *See*—
Bumpas, Troy D., Wheeler, and Steen. 3,031,869.
Wheeler, William N. : *See*—
Zinn, Ell, Entemann, Perkins, and Wheeler. 3,052,712.
Wheeler, William R. : *See*—
Cislak, Francis E., and Wheeler. 3,020,280.
Cislak, Francis E., and Wheeler. 3,020,281.
Cislak, Francis E., and Wheeler. 3,020,282.
Wheeling Steel Corp. : *See*—
Fink, Ernest O. 3,027,983.
Wheelock, Charles E., to Phillips Petroleum Co. Extracting a liquid diene polymer with a liquid hydrocarbon and method of preparing casting of said extracted diene polymer. 3,018,277, 1–23–62, Cl. 260—93.5.
Wheelock, Charles E., to Phillips Petroleum Co. Liquid diene polymer laminating and casting compositions. 3,023,197, 2–27–62, Cl. 260—88.1.
Wheelock, Charles E., to Phillips Petroleum Co. Reaction products of epoxidized diene polymers with RSH compounds and thermosetting resins prepared therefrom. 3,025,273, 3–13–62, Cl. 260—79.
Wheelock, Charles E., to Phillips Petroleum Co. Thermosetting resins. 3,028,370, 4–3–62, Cl. 260—78.4.
Wheelock, Charles E., to Phillips Petroleum Co. Alkenylated linear polyamides. 3,035,028, 5–15–62, Cl. 260—78.
Wheelock, Charles E., and P. J. Canterino, to Phillips Petroleum Co. Process for the production of epoxidized polybutadiene. 3,022,322, 2–20–62, Cl. 260—348.5.
Wheelock, Maurice E. : *See*—
Campbell, James E., Roe, and Wheelock. 3,027,120.
Wheelock Signals, Inc. : *See*—
Moenke, Alfred R. 3,060,292.
Wheel Trueing Tool Co. : *See*—
Pickard, Albert F., Klapka, and Catallo. 3,035,647.
Whelan, James E., to General Motors Corp. Load responsive modulating valve for fluid brake system. 3,059,976, 10–23–62, Cl. 303—6C.
Whelan, James M. : *See*—
Fuller, Calvin S., and Whelan. 3,070,467.
Whelan, James P., to Pneumatic Scale Corp., Ltd. Container handling device. 3,042,182, 7–3–62, Cl. 198—33.
Whelan, James P., to Pneumatic Scale Corp. Container cleaning machine. 3,060,481, 10–30–62, Cl. 15—304.
Whelan, John M., Jr. : *See*—
Chow, Sui-Wu, and Whelan. 3,037,966.
Wheland Co., The : *See*—
McColl, Allan C. 3,056,438.
Whelen Engineering Co., Inc. : *See*—
Whelen, George W., III. 3,020,509.
Whelen, George W., III, to Whelen Engineering Co., Inc. Quick disconnect rotatable mounting for beacon light. 3,020,509, 2–6–62, Cl. 339—5.
Whelen, Lee M. Device for sunning the body. 3,023,753, 3–6–62, Cl. 128—372.
Wherley, Fred J., to The B. F. Goodrich Co. Low density, resilient polyurethane foam and method for preparing same. 3,047,517, 7–31–62, Cl. 260—2.5.
Whessoe Ltd. : *See*—
Holmes, Stanley N. G., and French. 3,033,975.
Whetstone, Richard R., to Shell Oil Co. Halogenated phosphorus esters. 3,027,296, 3–27–62, Cl. 167—22.
Whetstone, William B. Desk for motor vehicles. 3,061,394, 10–30–62, Cl. 312—256.
Whiffen and Sons Ltd. : *See*—
Battersby, Alan R. 3,045,020.
Whiffin, George L., to Associated Electrical Industries Ltd. Electric switches. 3,069,516, 12–18–62, Cl. 200—67.
Whildin, Orvilla M., H. C. Steube, deceased, (by C. H. Steube, executrix). Signal systems. 3,040,141, 6–19–62, Cl. 200—61.63.
Whippen, Warren G., W. J. McCormack, and T. K. Breda, to Allis-Chalmers Mfg. Co. Diagonal flow reversible pump-turbine. 3,026,085, 3–20–62, Cl. 253—31.
Whipple, George H. : *See*—
Marks, Barnard M., and Whipple. 3,037,953.
Whipple, Robert P. : *See*—
Koch, Robert C., and Whipple. 3,018,813.
Whirl-A-Seal Corp. : *See*—
Domigan, Kenneth W. 3,066,846.
Whirlein, John J. : *See*—
Fesmire, Norman W., and Whirlein. 3,015,407.
Whirlpool Corp. : *See*—
Backer, Lee H. D., and Beckett. 3,025,683.
Baillif, Ernest A., and Koch. 3,022,645.
Baron, Ralph D. 3,045,451.
Beckett, Leo G., and Woods. 3,022,550.
Berger, William E., Sr., and Levit. 3,026,628.
Bird, Clarence A., Jr. 3,055,190.
Boswinkle, George, and Marple. 3,066,519.
Braga, Albert T., and Hilmanowski. 3,038,640.
Burkall, Alvin E. 3,060,713.
Buzicky, Edmund J., Johnson, Hilmanowski, and Milnar. 3,038,641.
Clearman, Jack F., and Coss. 3,029,535.
Cobb, Clifton A., Orr, and Robandt. 3,019,814.
Cobb, Clifton A., Orr, and Robandt. 3,045,696.
Cobb, Clifton A., Wiessner, and Orr. 3,016,147.
Cobb, Clifton A., and Williams. 3,065,618.
Conaway, Bolyn H. 3,045,452.
Connor, Ralph F. 3,022,936.
Corn, Adolph D. 3,031,863.
Coss, George R. 3,065,619.
Curtis, John T. 3,015,125.
Davenport, Rodney B., and Woodfin. 3,030,790.
Diamond, William J., Levin, and Wood. 3,023,132.
Doner, John T. 3,040,732.

Whirlpool Corp.: *See*—Continued
Doner, John T., and Lannert. 3,033,463.
Fink, Robert W. 3,055,194.
Hinkel, Lester H., and Ferar. 3,028,209.
Hubacker, Earl F. 3,022,640.
Hubacker, Earl F. 3,027,733.
Hubacker, Earl F., and Boettcher. 3,066,852.
Hubacker, Earl F., and Krug. 3,020,733.
Johnson, Robert E. 3,032,618.
Jones, John P., Scott, and Methling. 3,040,541.
Jungemann, Luther J., and Hupfer. 3,062,019.
Lamp, James K., Jr. 3,027,936.
Levit, Edward C. 3,031,564.
Linstromberg, William J. 3,040,542.
Linstromberg, William J. 3,055,184.
Linstromberg, William J., and Frohbieter. 3,055,186.
Martz, Arthur F., Jr., and Wennerberg. 3,031,855.
Pauler, Charles J., and Waddell. 3,034,085.
Phillips, Benjamin A. 3,040,547.
Phillips, Benjamin A., Reeder, and Kruggel. 3,063,257.
Platt, Clark L., and Cobb. 3,040,552.
Seifert, Wilbur S. 3,055,528.
Stanulis, Leonard M. 3,055,189.
Stoligrosz, Eugene. 3,063,441.
Sundberg, Carl W. 3,040,550.
Swanson, Donald F. 3,061,871.
Tobey, Raymond E. 3,015,215.
Van Der Aue, Charles R. 3,027,855.
Weliborn, John M., and Kimm. 3,015,222.
Whitlow, Eugene P., and Fink. 3,046,756.

Whisenhunt, J. L., to Packard-Bell Electronics Corp. Radio receiver with means for compensating for variations in the supply voltage. 3,065,424, 11–20–62, Cl. 325—319.

Whisenhunt, Wilburn G.: *See*—
Carruth, Tommy R., and Whisenhunt. 3,059,261.

Whisler, Thomas C. Sr., to American Brake Shoe Co. Slushing scrapers. 3,028,696, 4–10–62, Cl. 37—141.

Whistler, Charles C., Jr., to General Motors Corp. Refrigerating apparatus. 3,018,544, 1–30–62, Cl. 29—157.3.

Whistler, Lawrence V., Jr.: *See*—
Whistler, Lawrence V., Sr., and L. V. Whistler, Jr. 3,037,473.

Whistler, Lawrence V., Sr., and L. V. Whistler, Jr. Adjustable die apparatus. 3,037,473, 6–5–62, Cl. 113—49.

Whistler, William T., to General Electric Co. Dielectric waveguide coupling arrangement for use in two-way signaling systems. 3,048,799, 8–7–62, Cl. 333—11.

Whiston, Donald, and M. J. Dondero. Fume hood. 3,049,-069, 8–14–62, Cl. 98—115.

Whitacre, Donald P. Wire coiling machine. 3,023,977, 3–6–62, Cl. 242—82.

Whitacre, John R.: *See*—
Breining, Elmer R., and Whitacre. 3,023,491.
Breining, Elmer R., and Whitacre. 3,049,799.
Nack, Herman R., Bulloff, and Whitacre. 3,050,417.

Whitaker, Leonard E. Stair climbing device. 3,058,754, 10–16–62, Cl. 280—5.26.

Whitaker, William D.: *See*—
Jackson, John K., and Whitaker. 3,046,738.
Parker, Wilton E., and Whitaker. 3,029,067.

Whitaker, William D., to The Garrett Corp. Turbine wheel exducer structure. 3,065,954, 11–27–62, Cl. 253—39.

Whitbourn, Kenneth J., to The Metal Box Co. Ltd. Apparatus for forming and trimming hollow articles. 3,038,200, 6–12–62, Cl. 18—5.

Whitby, Clyde M., and R. R. Fontaine, to ACF Industries, Inc. Aircraft trainer with phase selector and limiter. 3,026,631, 3–27–62, Cl. 35—12.

Whitby, Lawrence, to The Dow Chemical Co. High energy hydrocarbon fuel containing magnesium alloys. 3,019,145, 1–30–62, Cl. 149—87.

Whitcomb, Arthur J.: *See*—
Benson, Donald E., Lejeck, Karsten, and Whitcomb. 3,024,010.

Whitcomb, Forrest R. Tool feed control. 3,036,409, 5–29–62, Cl. 51—99.

Whitcomb, Lee, to R. Whitely. Apparatus for digging and balling trees or bushes. 3,045,368, 7–24–62, Cl. 37—2.

Whitcroft, John, and S. A. Choudhury, to Associated Electrical Industries Ltd. Dynamic braking for induction motors. 3,031,605, 4–24–62, Cl. 318—211.

White, Abraham P., and H. D. Epstein, to Texas Instruments Inc. Electrical switch structures. 3,031,551, 4–24–62, Cl. 200—122.

White, Albert E. S., to The Morgan Crucible Co. Ltd. Bearings. 3,019,068, 1–30–62, Cl. 308—237.

White, Andrew J. Brake lining. 3,056,380, 10–2–62, Cl. 116—114.

White, Arnold G.: *See*—
Turner, Gordon H., Wellington, Sutherland, and White. 3,063,099.

White, Calvin W. Carbon monoxide eliminator with automatic gas burner and volatilizer. 3,059,422, 10–23–62, Cl. 60—30.

White, Charles F. Feedback system testing apparatus. 3,032,710, 5–1–62, Cl. 324—57.

White, Charles S. Low friction fabric material. 3,019,821, 2–6–62, Cl. 139—420.

White, Charles S. Ball stud and method of construction. 3,023,038, 2–27–62, Cl. 287—87.

White, Charles S. Bearing element comprising fibrous fluorocarbon. 3,037,893, 6–5–62, Cl. 154—43.

White, Chester M., to Olin Mathieson Chemical Corp. Oxidized tall oil and petroleum oil composition, method of making, and method of reclaiming rubber therewith. 3,043,786, 7–10–62, Cl. 260—2.3.

White, Clemens, to Dominion Lock Co. Ltd. Burglar-resistant lock. 3,058,333, 10–16–62, Cl. 70—1.5.

White, Curtice C.: *See*—
Strauss, Howard J., and White. 3,053,924.

White, David E.: *See*—
Sear, Arthur W., Schulz, and White. 3,022,395.

White, Edgar L., to Westinghouse Brake and Signal Co., Ltd. Remote control systems. 3,021,508, 2–13–62, Cl. 340—163.

White, Edgar L., to Westinghouse Brake and Signal Co. Ltd. Counting chain with rectifier means between corresponding outputs of each stage. 3,026,426, 3–20–62, Cl. 307—88.5.

White, Edmund W.: *See*—
Frame, John D., Haney, and White. 3,041,267.

White, Edmund W., to Cities Service Research and Development Co. Screen separation of tar sand. 3,068,167, 12–11–62, Cl. 208—11.

White, Edwin C., to Celanese Corp. of America. Wet spinning of low density cellulose acetate filaments. 3,025,130, 3–13–62, Cl. 18—54.

White, Elmer E.: *See*—
Hixon, Philip E., and White. 3,068,886.

White, Eric L. C., to Electric & Musical Industries Ltd. Pulse analysis circuits. 3,034,120, 5–8–62, Cl. 343—113.

White, Erving F.: *See*—
Elsner, Edwin C., and White. 3,065,987.

White, Erving F. Cargo latch. 3,016,257, 1–9–62, Cl. 294—83.

White Filter Sales Co.: *See*—
Boorujy, Salem. 3,037,635.

White, Frederick F., Jr.: *See*—
Bigliano, Robert P., and White. 3,068,409.

White, Gale: *See*—
Rubens, Sidney M., and White. 3,017,607.

White, George D., and D. C. O'Rourke, to United States of America, Atomic Energy Commission. Method of making spherical actinide carbide. 3,070,420, 12–25–62, Cl. 23—14.5.

White, George H. Equipment for truck bodies. 3,028,025, 4–3–62, Cl. 214—84.

White, George W.: *See*—
Bliss, Harvey N., and White. 3,037,666.

White, Gerald, to Libbey-Owens-Ford Glass Co. Apparatus for controlling the heating of the glass sheet during bending. 3,020,677, 2–13–62, Cl. 49—67.

White, Gerald M., to Purdue Research Foundation. Radiation-sensitive infrared control. 3,062,941, 11–6–62, Cl. 219—20.

White, Glen A.: *See*—
Deady, Frederick W., Jr., and White. 3,053,315.

White Glove Charcoal, Inc.: *See*—
Hall, Alton B. 3,026,189.

White, Gordon J.: *See*—
Simons, Walford J. L., and White. 3,051,421.

White, Harlan V., to General Motors Corp. Turbine cooling system. 3,034,298, 5–15–62, Cl. 60—39.66.

White, Harold: *See*—
Marsden, John E., and White. 3,065,096.

White, Harold, and G. Gee, to James North & Sons Ltd. Bonding of elements, such as buttons, to a fabric. 3,027,-093, 3–27–62, Cl. 156—283.

White, Harold J., and A. N. Piacente, to Congoleum-Nairn Inc. Method of making a decorative composition sheet. 3,015,356, 1–2–62, Cl. 18—59.

White, Harry. Vent pipes concurrently locked against axial and rotational displacement. 3,066,959, 12–4–62, Cl. 285—81.

White, Harry J., to Research-Cottrell, Inc. Electrostatic blower apparatus. 3,054,553, 9–18–62, Cl. 230—69.

White, Herbert A., Jr., to Esscolator Mfg. Corp. Blowpipe. 3,031,128, 4–24–62, Cl. 266—41.

White, Hosea D. Jr., C. L. Cohen, and H. J. McGinty, to ACF Industries, Inc. Automatic control simulation. 3,026,630, 3–27–62, Cl. 35—12.

White, Howard T., to Fostoria Corp. Motor driven pumps. 3,053,189, 9–11–62, Cl. 103—87.

White, Isaac J., and P. C. Martin; said Martin assor. to said White. Automatic key chain assembly apparatus. 3,046,-642, 7–31–62, Cl. 29—208.

White, Jack M.: *See*—
Johnson, Eldon A., and White. 3,021,792.

White, James A., to United States of America, National Aeronautics and Space Administration. Magnetically centered liquid column float. 3,024,659, 3–13–62, Cl. 73—401.

White, James C. Clamp and clamp assembly. 3,023,989, 3–6–62, Cl. 248—68.

White, James C., to Ingersoll-Rand Co. Pneumatic signaling device. 3,063,405, 11–13–62, Cl. 116—65.

White, James F. Sling strap retainer. 3,052,886, 9–11–62, Cl. 2—2.

White, James M.: *See*—
Cohen, Israel B., and White. 3,035,540.

White, James M., J. W. Cardwell, R. F. Davisson, and R. P. Brooks, to Greenway Industries. Metal bending machine. 3,023,800, 3–6–62, Cl. 153—56.

White, James P. Apparatus for tone quality control. 3,031,909, 5–1–62, Cl. 84—1.25.

White, James W.: *See*—
Heller, George L., and White. 3,048,559.

White, Jerome V.: *See*—
Hinrichs, Karl, and White. 3,058,068.
White, John A., Jr., to Be-Ge Mfg. Co. Scraper plane. 3,050,-883, 8–28–62, Cl. 37—153.
White, John E.: *See*—
Schaefer, Donald L., and White. 3,024,382.
White, John E., to General Electric Co. Thermionic electrode for discharge lamps. 3,029,359, 4–10–62, Cl. 313—184.
White, John J.: *See*—
Siegel, William J., and White. 3,030,833.
White, John J., and M. Clar, to ACF Industries, Inc. Riveting machine. 3,030,695, 4–24–62, Cl. 29—26.
White, John R., to Hazeltine Research, Inc. Dual gain amplifier. 3,017,576, 1–16–62, Cl. 330—46.
White, John R., to Gildmore Press Ltd. Method and apparatus for book or card-edge gilding. 3,054,715, 9–18–62, Cl. 156—233.
White, John U. Spectroscopic device. 3,048,080, 8–7–62, Cl. 88—14.
White, John U. Optical apparatus employing diffraction grating 3,069,966, 12–25–62, Cl. 88—14.
White, John U., and H. H. Cary. Apparatus employing stationary optical means and diffraction grating. 3,069,967, 12–25–62, Cl. 88—14.
White, John W., to National-Standard Co. Machine for building tire beads. 3,016,322, 1–9–62, Cl. 156—422.
White, Kenneth H., to Ingersoll-Rand Co. Hydraulic variable volumee clearance pocket device. 3,045,892, 7–24–62, Cl. 230—21.
White Laboratories, Inc.: *See*—
Litterio, Frank R. A. 3,050,505.
White, Lewis C. Grinding wheel dresser. 3,046,968, 7–31–62, Cl. 125—11.
White, Louis C. Motorized carrier. 3,041,085, 6–26–62, Cl. 280—17.37.
White, Malcolm L., and D. C. Wehner, to American Cyanamid Co. Synthetic culture media. 3,046,201, 7–24–62, Cl. 195—100.
White, Marshall P., to Westinghouse Electric Corp. Switching devices. 3,018,456, 1–23–62, Cl. 336—110.
White, Millage M., to Jersey Production Research Co. Prolling of fluid injection wells. 3,032,653, 5–1–62, Cl. 250—43.5.
White, Millage M., and H. M. Buck, to Jersey Production Research Co. Fluid meter. 3,036,460, 5–29–62, Cl. 73—155.
White Motor Co., The: *See*—
Harris, Bert C. 3,035,855.
Schwartz, Harry A. 3,062,309.
Stephens, Wayne P. 3,049,652.
White, Peter T.: *See*—
Moy, John A. E., and White. 3,033,777.
Moy, John A. E., White, and Yeo. 3,027,413.
White, Peter T., to The British Petroleum Co. Ltd. Hydrogenation of gasolines. 3,051,647, 8–28–62, Cl. 208—255.
White, Peter T., and D. S. Ward. Catalytic reforming. 3,030,-301, 4–17–62, Cl. 208—140.
White, Philip A.: *See*—
Bayley, Donald S., White, and Schaefer. 3,027,808.
White, Philip R., to Bell Telephone Laboratories, Inc. Soldering of zinc-containing surfaces. 3,066,406, 12–4–62, Cl. 29—498.
White, Ralph G.: *See*—
Rowland, Stanley P., and White. 3,051,672.
White, Raymond A. Dental handpiece control. 3,032,878, 5–8–62, Cl. 32—27.
White, Rexford E., to Kentucky Electronics Inc. Level or layer wire winding machines. 3,054,568, 9–18–62, Cl. 242—25.
White, Richard H., to Abrasive Products, Inc. Method of producing abrasive rolls and sheets. 3,037,852, 6–5–62, Cl. 51—293.
White, Richard J.: *See*—
Fredette, Joseph H., Taylor, and White. 3,049,224.
White, Richard L.: *See*—
Tellefsen, Harold E., White, and Alessio. Re. 25,214.
White, Richard L., to Hoffman Electronics Corp. Logic circuits or the like. 3,025,409, 3–13–62, Cl. 307—88.
White, Richard L., to Hoffman Electronics Corp. Zener diode rectifier and regulator circuits. 3,063,001, 11–6–62, Cl. 321—16.
White, Richard L., and H. E. Tellefsen, to Information Systems, Inc. Control circuits. 3,068,365, 12–11–62, Cl. 307—88.
White, Richard N. Ore concentrating device. 3,018,892, 1–30–62, Cl. 209—441.
White, Robert C. Method and apparatus for coating metal parts. 3,024,133, 3–6–62, Cl. 117—102.
White, Robert F.: *See*—
Bass, Harold E., and White. 3,050,082.
Heese, William E., and White. 3,019,771.
White, Robert F. Sealing door. 3,064,318. 11–20–62, Cl. 20—24.
White, Robert H., to The Torrington Co. Roller bearing for key. 3,065,034. 11–20–62, Cl. 308—6.
White, Robert L.: *See*—
Zeigler, Philip B., and White. 3,024,039.
White-Rodgers Co.: *See*—
Lemberger, Robert A. 3,017,156.
Smith, Carl A. 3,027,132.

White, Roger E., I. W. Fuller, and N. L. Davis. Traveling wave presentation device. 3,049,707, 8–14–62, Cl. 343—13.
White, Relph B., Jr.: *See*—
MacNeill, John H., and White. 3,069,674.
White, Roy A., to Cosden Petroleum Corp. Suspension polymerization in the presence of a phospholipid. 3,068,192, 12–11–62, Cl. 260—45.5.
White, S. S., Dental Mfg. Co., The: *See*—
Angell, Robert C., and Uhler. 3,059,970.
Massen, Armand. 3,036,863.
White, Samuel D., to Bell Telephone Laboratories, Inc. Preset call transmitter. 3,062,921, 11–6–62, Cl. 179—90.
White Sewing Machine Corp.: *See*—
Archbold, Ralph L. 3,016,541.
Hamlett, Sidney J. 3,035,534.
Hamlett, Sidney J. 3,038,513.
Hamlett, Sidney J. 3,068,817.
Wiltshire, Arthur J. 3,023,135.
Wiltshire, Arthur J. 3,031,099.
White, Stanley B., to United States of America, Air Force. Radar countermeasure. 3,019,433, 1–30–62, Cl. 343—18.
White, Stanley F. Speaker. 3,046,362, 7–24–62, Cl. 179—115.5.
White, Theodore Z., and R. M. Thorpe, to Ford Motor Co. Cooling system. 3,051,450, 8–28–62, Cl. 257—125.
White, Thomas C., to The M. W. Kellogg Co. Gas separation. 3,064,029, 11–13–62, Cl. 260—449.5.
White, Thomas F., and S. C. Swanson, to American Biltrite Rubber Co., Inc. Ball elevator belting. 3,036,944, 5–29–62, Cl. 154—52.1.
White, Walter W. Radiation turbine. 3,031,852, 5–1–62, Cl. 60—59.
White, Warren D., to United States of America, Army. Means for generating a symmetrical gate voltage. 3,040,257, 6–19–62, Cl. 328—34.
White, Warren W.: *See*—
Cahill, Starr W., and White. 3,028,187.
White, Warren W., to Motec Industries, Inc. Digital indicator and decimal point indicating means. 3,018,952, 1–23–62, Cl. 235—117.
White, Warren W., and S. W. Cahill, to Hycon Mfg. Co. Cool gas generator. 3,066,014, 11–27–62, Cl. 23—281.
White, Wilfred A. S.: *See*—
Kilby, William, and White. 3,019,140.
White, Wilfrid P., and R. J. Schlueter, to United States of America, Atomic Energy Commission. Erythropoietic factor purification. 3,033,753, 5–8–62, Cl. 167—74.
White, Wilfrid G., to Wilfrid O. White & Sons, Inc. Compass. 3,035,180, 5–15–62, Cl. 250—233.
White, Wilfrid O., & Sons, Inc.: *See*—
White, Wilfrid G. 3,035,180.
White, William A., and R. A. Ruehrwein, to Monsanto Chemical Co. Chlorination process. 3,029,296, 4–10–62, Cl. 260—650.
White, William C.: *See*—
Tauner, Walter, and White. 3,058,420.
White, William C., to General Electric Co. Humidity sensitive device. 3,039,025, 6–12–62, Cl. 317—157.
White, William L.: *See*—
McNally, Arthur P., and White. 3,066,380.
White, William W., to United States Rubber Co. Rubber powder. 3,042,633 7–3–62, Cl. 260—3.
Whitecar, Alten E.: *See*—
Hompe, Robert W., Trezona, and Whitecar. 3,016,672.
Whitecar, Alten E., to Smith Kline & French Laboratories. Apparatus for orienting cylinders. 3,044,597, 7–17–62, Cl. 193—43.
Whiteford, Carlton L. Package for fragile articles. 3,052,-347. 9–4–62, Cl. 206—46.
Whitehall-Rand, Inc.: *See*—
Brown, Thomas T. 3,018,394.
Brown, Thomas T. 3,022,430.
Whitehead, Alfred E. Remotely directing catheters and tools. 3,058,473, 10–16–62, Cl. 128—349.
Whitehead, Eric J., to Rolls-Royce Ltd. Shaft bearing surface. 3,054,693, 9–18–62, Cl. 117—38.
Whitehead, George B. Bailer for boats. 3,027,861, 4–3–62, Cl. 114—185.
Whitehead, Howard A.: *See*—
Bletzinger, John C., and Whitehead. 3,068,867.
Whitehead & Kales Co.: *See*—
Blunden, Donald J. 3,038,740.
Stough, Gerald D. 3,026,820.
Stough, Gerald D., and Collins. 3,018,079.
Whitehead, Paul L., to Western Electric Co., Inc. Method of and apparatus for material testing. 3,033,017, 5–8–62, Cl. 73—7.
Whitehead, Raymond O., J. Master, and R. Marogg, to Kimberly-Clark Corp. Method and apparatus for making filter rods. 3,035,497, 5–22–62, Cl. 93—1.
Whitehead, Richard K., Jr.: *See*—
Whitehead, Richard K., Sr., and R. K. Whitehead, Jr. 3,065,926.
Whitehead, Richard K., Sr., and R. K. Whitehead, Jr. Bobbin holder. 3,065,926, 11–27–62, Cl. 242—129.7.
Whitehead, William G.: *See*—
Jex, Victor B., McMahon, and Whitehead. 3,044,845.
Whitehill, Alvin R.: *See*—
Akers, William T., Clark, and Whitehill. 3,066,071.
Whitehill, Jules L., and C. E. Gagnier. Anastomosis clamp. 3,019,789, 2–6–62, Cl. 128—305.

Whitehorn, Richard M., to Varian Associates. Waveguide hybrid junctions. 3,066,290, 11–27–62, Cl. 343—100.
Whitehouse, David R.: *See*—
Farmer, Edward B., and Whitehouse. 3,040,215.
Whitehouse, John B., R. M. Lamade, Jr., C. A. Di Maggio, and G. H. Hall, to Arthur D. Little, Inc. Automatic processing apparatus. 3,043,069, 7–10–62, Cl. 53—157.
Whitehouse, John H., to North & Judd Mfg. Co. Releasable boat fender fastening device. 3,065,003, 11–20–62, Cl. 287—20.
Whitehurst, Bert W., to Patton Engineering Corp. Gravity actuated pump. 3,040,671, 6–26–62, Cl. 103—150.
Whitehurst, Bert W. Method of producing titanium metal. 3,058,820, 10–16–62, Cl. 75—10.
Whitehurst, Harry B.: *See*—
Morgan, Willard L., Whitehurst, Russell, and Stalego. 3,021,564.
Slayter, Games, Whitehurst, and Morgan. 3,047,409.
Whitehurst, Harry B., to Owens-Corning Fiberglas Corp. Metal coated fibers and treatments therefor. 3,041,202, 6–26–62, Cl. 117—71.
Whitehurst, Harry B., to Owens-Corning Fiberglas Corp. Metal coated fibers with rubber treatment. 3,054,712, 9–18–62, Cl. 156—151.
Whitehurst, Harry B., and W. H. Otto, to Owens-Corning Fiberglas Corp. Metal coated glass fibers. 3,019,515, 2–6–62, Cl. 29—195.
Whitelaw, Robert L., to The Babcock & Wilcox Co. Boron trifluoride regulating system. 3,025,228, 3–13–62, Cl. 204—193.2.
Whiteley, Glenn R.: *See*—
Moseley, Francis L., and Whiteley. 3,052,884.
Whiteley-Read Engineers Ltd.: *See*—
Miller, Donald. 3,016,082.
Whitely, Richard L., to Radio Corp. of America. Magnetic switching and storing device. 3,026,420, 3–20–62, Cl. 307—88.
Whitenack, Joseph E.: *See*—
Thompson, Josephus B., and Whitenack. 3,059,948.
Whitenack, Mirl E., to The Swiss Colony Inc. Rapid response in-motion control device. 3,059,663, 10–23–62, Cl. 137—930.
Whitesell, Lowell G.: *See*—
Lewis, Lloyd G., Whitesell, and Ginsburgh. 3,037,123.
Whitesell, Lowell G., to Standard Oil Co. Electric analog multiplier. 3,058,662, 10–16–62, Cl. 235—195.
Whiteside, Foster C., to Hudson's Bay Oil and Gas Co. Ltd. Apparatus for proving meters and the like. 3,040,558, 6–26–62, Cl. 73—3.
Whitesides, Clyde N., to American Cyanamid Co. Resin finish for cellulose textile material. 3,058,847, 10–16–62, Cl. 117—139.4.
Whitfield, Frank G. S.: *See*—
Whitney, Geoffrey F. H., Baker, and Whitfield. 3,027,678.
Whitfield, Kenneth O. Self-lifting flatiron. 3,050,885, 8–28–62, Cl. 38—79.
Whitfield Laboratories, Inc.: *See*—
Schreyer, Edward P., and Whitfield. 3,044,439.
Whitfield, Marshall G.: *See*—
Cheney, Wendell C., Morehouse, and Whitfield. 3,021,183.
Schreyer, Edward P., and Whitfield. 3,044,439.
Whitfield, Marshall G., and V. Sheshunoff. Temperature resistant body. 3,044,156, 7–17–62, Cl. 29—194.
Whitfield, William A. and J. Weber, Jr. Paint applying means. 3,030,652, 4–24–62, Cl. 15—573.
Whitin Machine Works: *See*—
Dudley, John S. 3,032,832.
Hargreaves, Robert, and Miller. 3,035,398.
Helberg, Oernulf E. 3,015,203.
Nydam, John H. 3,061,891.
Strang, Peter M. 3,036,343.
Tetreault, Merritt D. 3,060,671.
Tetreault, Merritt D. 3,063,230.
Whiting Corp.: *See*—
Flynn, Ben L. 3,027,011.
Flynn, Ben L. 3,056,608.
Griffiths, Clyde C., and Saxomeyer. 3,055,310.
Morey, Woodruff A., and Ames. 3,026,462.
Smith, Fred T. 3,035,414.
Smith, Fred T. 3,046,950.
Whiting, E. B. & A. C., Co.: *See*—
Munt, Plummer C. 3,059,991.
Whiting, Edwin F., and A. W. Schneider, to The Upjohn Co. Process for oxidation of 11-hydroxysteroids to 11-ketosteroids. 3,019,238, 1–30–62, Cl. 260—397.3.
Whiting, Harold E., to Square D Co. Motor starter mounting. 3,032,619, 5–1–62, Cl. 200—50.
Whiting, James A., and J. O. Rogers. Phonograph record. 3,039,218, 6–19–62, Cl. 40—340.
Whiting, Kenneth W.: *See*—
Germany, Leslie W., and Whiting. 3,038,025.
Goff, George B. F., and Whiting. 3,060,343.
Walsh, Arthur S., and Whiting. 3,058,071.
Whitley, George J.: *See*—
Pappano, Harry A., and Whitley. 3,052,865.
Whitley, Leota F.: *See*—
Drake, Rose P., and Whitley. 3,034,965.
Whitley, Robert: *See*—
Whitcomb, Lee. 3,045,368.
Whitley, Stanley, to United Kingdom Atomic Energy Authority. Journal bearings. 3,039,830, 6–19–62, Cl. 308—9.
Whitley, William J., Jr., and W. S. Evans, Jr., to Julien P. Benjamin Equipment Co. Dispensing mechanism. 3,032,-239, 5–1–62, Cl. 222—486.
Whitley, William M., to Effco, Inc. Connector with temporary cable holding means. 3,032,603, 5–1–62, Cl. 174—94.
Whitlock, Harold E., to E. I. du Pont de Nemours and Co. Coagulation of colloidal polytetrafluoroethylene dispersions. 3,046,263, 7–24–62, Cl. 260—92.1.
Whitlock, Robert A., to AquaMatic Inc. Control system for water treatment apparatus. 3,019,817, 2–6–62, Cl. 137—624.18.
Whitlock, Robert A., to AquaMatic Inc. Control system for water treatment apparatus. 3,029,949, 4–17–62, Cl. 210—134.
Whitlock, Robert A., to AquaMatic Inc. Water treatment apparatus. 3,049,238, 8–14–62, Cl. 210—191.
Whitlock, Robert A., and T. W. Johnson, to AquaMatic Inc. Control system for water treatment apparatus. 3,049,237, 8–14–62, Cl. 210—136.
Whitlock, Walter K. Replaceable wear components for cotton seed press. 3,069,873, 12–25–62, Cl. 64—1.
Whitlow, Eugene P., to Arkla Industries Inc. Means for wetting surfaces. 3,025,685, 3–20–62, Cl. 62—515.
Whitlow, Eugene P., and R. W. Fink, to Whirlpool Corp. Means for transferring fluids in an absorption refrigeration system. 3,046,756, 7–31–62, Cl. 62—141.
Whitman, Carl G., and A. T. Swain, to Allis-Chalmers Mfg. Co. Heat treating method and apparatus. 3,021,412, 2–13–62, Cl. 219—10.41.
Whitman, Clifford L., to Whitman Laboratories, Inc. Preformed base for orthodontic and dental casts and method of attaching the same. 3,043,009, 7–10–62, Cl. 32—32.
Whitman, Edwin J., and L. F. Weiss. Dental mirror handle. 3,048,924, 8–14–62, Cl. 32—69.
Whitman, George F.: *See*—
Johnson, Stuart J., Bruns, and Whitman. 3,059,546.
Whitman Laboratories, Inc.: *See*—
Whitman, Clifford L. 3,043,009.
Whitman, Ross C., to The Kendall Co. Headband. 3,015,-535, 1–2–62, Cl. 132—9.
Whitman, Ross C., and M. G. Eckstrom, to Rayette, Inc. Hair waving composition. 3,039,934, 6–19–62, Cl. 167—87.1.
Whitmire, Lee O. Disposal tool. 3,026,553, 3–27–62, Cl. 15—104.8.
Whitmire, William A.: *See*—
Briggs, Henry W., and Whitmire. 3,021,970.
Whitmore, Arthur. Hand operating means for brake and accelerator pedals. 3,065,647, 11–27–62, Cl. 74—481.
Whitmore, Charles H.: *See*—
Crane, Robert L., Cleland, and Whitmore. 3,034,779.
Whitmore, Charles H., to Continental Machines, Inc. Apparatus for draining cooling liquid from cutting chips. 3,064,-821, 11–20–62, Cl. 210—523.
Whitmore, Harland W., to Borg-Warner Corp. Method and means for preserving fresh foods. 3,067,588, 12–11–62, Cl. 62—268.
Whitmore, Max E. Valve mechanism for pressurized cans. 3,049,271, 8–14–62, Cl. 222—394.
Whitmore, Reginald: *See*—
Spencer, Jack C., and Whitmore. 3,031,089.
Whitmore, Robert A.: *See*—
Sherman, Frederic C., and Whitmore. 3,063,892.
Whitmore, Robert A., to FMC Corp. Apparatus for preserving food products in sealed containers of vitreous material. 3,016,666, 1–16–62, Cl. 53—112.
Whitmore, Robert A., to United Shoe Machinery Corp. Smoke filters. 3,030,964, 4–24–62, Cl. 131—10.
Whitmore, Robert A., and S.-T. Tu, to United Shoe Machinery Corp. Supported protein cigarette filters. 3,019,794, 2–6–62, Cl. 131—208.
Whitnah, Ronald L., to Minnesota Mining and Mfg. Co. Tape core. 3,056,563, 10–2–62, Cl. 242—71.8.
Whitney, Arthur J., to National Distillers and Chemical Corp. Cathode assemblies and electrolytic cells containing same. 3,061,535, 10–30–62, Cl. 204—243.
Whitney Blake Co.: *See*—
Larson, Carl A. 3,038,021.
Quackenbush, Edward C. 3,020,513.
Quackenbush, Edward C. 3,026,495.
Quackenbush, Edward C. 3,066,272.
Whitney, Eugene C.: *See*—
Baudry, Rene A., and Whitney. 3,018,144.
Whitney, Frank C.: *See*—
Carson, James S., Feild, Kegan, Markwood, and Whitney. 3,018,252.
Whitney, Geoffrey F. H., A. H. Baker, and F. G. S. Whitfield, to Aerovap Holdings Ltd. Pesticides and other volatile compounds. 3,027,678, 4–3–62, Cl. 43—125.
Whitney, Gilbert C., Jr., to Foster Wheeler Corp. Conveying and distributing apparatus for comminuted material and air. 3,050,341, 8–21–62, Cl. 302—28.
Whitney, Gilbert C., Jr., and E. J. Galvanek, to Foster Wheeler Corp. Ball mill with material separators at each end for recycling oversize material. 3,032,280, 5–1–62, Cl. 241—52.
Whitney, Glenn R. Actuating device. 3,045,698, 7–24–62, Cl. 137—624.14.
Whitney, Kenneth L., to American Viscose Corp. Apparatus for making tufted fabrics. 3,052,198, 9–4–62, Cl. 112—79.
Whitney, Theodore R., to Thompson Ramo Wooldridge Inc. Energy detection apparatus. 3,020,406, 2–6–62, Cl. 250—83.3.

Whitney, William E. : *See*—
Rand, William M., Rice, Shaver, and Whitney. 3,035,-903.
Whitney, William G. : *See*—
Kobler, Richard, and Whitney. 3,040,133.
Kossor, Albert A., and Whitney. 3,034,241.
Whitney, William G., to McGraw-Edison Co. Phonographic machine. 3,021,143, 2–13–62, Cl. 274—4.
Whitney, William G., and B. Wu, to McGraw-Edison Co. Transversal recording machine. 3,050,596, 8–21–62, Cl. 179—100.2.
Whiton, Arthur L., to Chicago Mill and Lumber Co. Container. 3,045,889, 7–24–62, Cl. 229—41.
Whiton Machine Co., The : *See*—
Beaney, Walter E. 3,044,837.
Whitsel, Travis S., Jr., to United Carbon Co., Inc. Carbon black apparatus. 3,051,556, 8–28–62, Cl. 23—259.5.
Whitsel, Travis S., Jr., to United Carbon Co., Inc. Carbon black apparatus. 3,060,004, 10–23–62, Cl. 23—259.5.
Whitsel, Travis S., Jr., to Phillips Petroleum Co. Ignition of solid propellants. 3,069,843, 12–25–62, Cl. 60—35.6.
Whitso, Inc. : *See*—
Whitted, John B., Jr. 3,040,452.
Whittam, Albert, to John Haig and Co. Ltd. Non-refillable bottle closure. 3,031,097, 4–24–62, Cl. 215—22.
Whitted, John B., Jr., to Whitso, Inc. Lift for shoe heel. 3,040,452, 6–26–62, Cl. 36—34.
Whitteman, Willard G. : *See*—
Krikorian, Nerses H., Farr, and Whitteman. 3,020,632.
Whittemore, Harold E., and R. W. Morrison, to Armstrong Cork Co. Hopper feed control device. 3,055,483, 9–25–62, Cl. 198—56.
Whittenberg, George R. Work supporting brackets for centerless grinders. 3,019,571, 2–6–62, Cl. 51—236.
Whittier, Clyde J., ½ to E. B. Meadows. Tractor mounted ditchers. 3,021,622, 2–20–62, Cl. 37—98.
Whittier, Gordon D., to Whittier Molding Co. Automatic thickness indicator for rough lumber. 3,017,850, 1–23–62, Cl. 118—9.
Whittier Molding Co. : *See*—
Whittier, Gordon D. 3,017,850.
Whittier, Robert P. : *See*—
Carlson, Frank A., Jr., Hatch, and Whittier. 3,070,475.
Whittier, Sidney B., to Polaroid Corp. Photographic lighting apparatus. 3,018,707, 1–30–62, Cl. 95—11.5.
Whittington, Lloyd R., to The Sun Rubber Co. Method of making hollow plastic articles. 3,040,384, 6–26–62, Cl. 18—58.3.
Whittington, Paul E., to United States of America, Army. Air conditioned fuel handling suit. 3,064,448, 11–20–62, Cl. 62—259.
Whittle, George P. : *See*—
Singley, John E., and Whittle. 3,060,151.
Whittle, Robert L., C. E. Jones, V. P. Honeiser, and H. S. Margetts, to International Telephone and Telegraph Corp. Data processing system. 3,036,291, 5–22–62, Cl. 340—172.5.
Whitton, Aldean W., Jr., to American Hospital Supply Corp. Suture cutter. 3,054,182, 9–18–62, Cl. 30—179.
Whitworth, Herbert M. : *See*—
Randell, Geoffrey E. C., and Whitworth. 3,049,738.
Randell, Geoffrey E. C., Whitworth, and Holme. 3,056,-699.
Whitworth, Sir W. G. Armstrong, & Co. (Engineers) Ltd. : *See*—
Tryhorn, Donald W., and Smith. 3,064,417.
Whorton, Leonidas P. : *See*—
Dunlap, Henry F., and Whorton. 3,052,835.
Whorton, Robert J. Carrier. 3,031,162, 4–24–62, Cl. 248—200.
Whyman, Barry H. F. : *See*—
Desty, Denis H., Haresnape, and Whyman. 3,046,699.
Whyte, David D., and E. O. Korpi, to The Procter & Gamble Co. Alkyl glyceryl ether sulfonate mixtures and processes for preparing the same. 3,024,273, 3–6–62, Cl. 260—513.
Whyte, Edward J., Jr. : *See*—
Butts, Richard R., and Whyte. 3,051,554.
Whyte, George, to R. L. Brown. Fastener. 3,032,845, 5–8–62, Cl. 24—73.
Whyte, Ronal H. : *See*—
Mitter, Laurence J., and Whyte. 3,069,785.
Whyte, Ronal H., to General Motors Corp. Panel joint. 3,035,670, 5–22–62, Cl. 189—36.
Whyte, Ronal H., to General Motors Corp. Trim strip assembly. 3,044,587, 7–17–62, Cl. 189—88.
Whyte, Ronal H., and B. L. Brucken, to General Motors Corp. Clothes drier. 3,032,887, 5–8–62, Cl. 34—43.
Wiancko, Thomas H., and R. K. Bunce, to Tamor Electric, Inc. Gating system employing a diode bridge logic circuit. 3,059,125, 10–16–62, Cl. 307—88.5.
Wiatrek, Peter : *See*—
Smith, Gerald C., Wiatrek, and Klatt. 3,029,614.
Wiatt, James G., and G. S. Butterworth, to The Cincinnati Milling Machine Co. Machine tool sizing device. 3,037,-332, 6–5–62, Cl. 51—165.
Wiberg, Egon, R. Hartwimmer, and A. G. M. Gumboldt, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for polymerizing lower olefins. 3,048,574, 8–7–62, Cl. 260—93.7.
Wiberg, Egon, and R. Hartwimmer, to Farbwerk Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of catalysts suitable to polymerize ethylene and alpha-olefins. 3,067,003, 12–4–62, Cl. 23—14.5.
Wiberg, Raymond F., to Harper-Wyman Co. Thermostatic gas valve. 3,030,026, 4–17–62, Cl. 236—99.
Wiborg, James H., to Ekco Products Co. Packaging apparatus. 3,057,132, 10–9–62, Cl. 53—112.
Wicanders Korkfabriker, Aktiebolaget : *See*—
Harding, Sune. 3,032,225.
Wichman, Merle A. : *See*—
Hovland, Howard N., and Wichman. 3,048,320.
Wichman, Merle A., to American Can Co. Food package. 3,061,091, 10–30–62, Cl. 206—78.
Wick, Arnold : *See*—
Hopff, Henrich, and Wick. 3,060,246.
Wick, Edward J., and H. W. Day, to F. C. Rosen, d.b.a. Ardmore Hosiery Mills. Automatic looper operator. 3,060,-874, 10–30–62, Cl. 112—25.
Wick, Kurt : *See*—
Becke, Friedrich, and Wick. 3,037,001.
Becke, Friedrich, and Wick. 3,041,294.
Becke, Friedrich, and Wick. 3,060,135.
Wick, Manfred : *See*—
Nitzsche, Siegfried, and Wick. 3,032,528.
Nitzsche, Siegfried, and Wick. 3,050,485.
Nitzsche, Siegfried, and Wick. 3,050,490.
Nitzsche, Siegfried, and Wick. 3,050,491.
Nitzsche, Siegfried, and Wick. 3,061,424.
Nitzsche, Siegfried, and Wick. 3,061,578.
Nitzsche, Siegfried, and Wick. 3,065,194.
Nitzsche, Siegfried, and Wick. 3,070,559.
Nitzsche, Siegfried, and Wick. 3,070,566.
Nitzsche, Siegfried, and Wick. 3,070,567.
Wick, Martin M. Electric organ transposing switch. 3,030,-848, 4–24–62, Cl. 84—445.
Wick, Richard : *See*—
Biedermann, Friedrich, and Wick. 3,034,400.
Biedermann, Friedrich, Wick, and Pfeifer. 3,060,434.
Wick, Richard, to Agfa Aktiengesellschaft. Photographic color printer. 3,036,494, 5–29–62, Cl. 88—24.
Wick, Richard, and H. A. Brandt, to Agfa Aktiengesellschaft. Electro-magnetically operated imprinting device. 3,043,218, 7–10–62, Cl. 101—287.
Wickam, Erwin E., to The J. B. Ehrsam & Sons Mfg. Co. Conveyor for fluent material. 3,061,073, 10–30–62, Cl. 198—52.
Wicken, Oscar M., and L. L. Gill, to Harbison-Walker Refractories Co. Rotary kiln with heat exchanger. 3,030,091, 4–17–62, Cl. 263—32.
Wickenberg, Chester H. : *See*—
Jepson, Ivar, and Wickenberg. 3,068,342.
Wicker, Clarice B. Automotive vehicle safety barrier. 3,044,-800, 7–17–62, Cl. 280—150.
Wicker, Clarice B. Automobile safety barrier. 3,044,821, 7–17–62, Cl. 296—24.
Wickerham, Lynferd J. : *See*—
Benedict, Robert G., Jeanes, Wickerham, and Rogovin. 3,021,322.
Wickerham, William R., to Westinghouse Electric Corp. Crane control. 3,045,162, 7–17–62, Cl. 318—202.
Wickersham, Arthur F., Jr., to Sylvania Electric Products Inc. Broadband tapered-ladder type antenna. 3,056,960, 10–2–62, Cl. 343—795.
Wickersham, Duane E. Method for producing a baked cream pie and the resulting product. 3,043,701, 7–10–62, Cl. 99—92.
Wickersham, Price D., D. L. Rall, and W. H. Giedt, to American Radiator and Standard Sanitary Corp. Neutron measuring device and heat meter. 3,028,494, 4–3–62, Cl. 250—83.1.
Wickes Boiler Co. : *See*—
Dewhirst, Robert D., and McKenna. 3,062,195.
Wickham, Alfred H., and R. J. Gilson, to Charles Colston Ltd. Dish varnishing machine spray impeller head. 3,026,046, 3–20–62, Cl. 239—223.
Wickhen Products, Inc. : *See*—
Weitzel, Günther. 3,035,987.
Wickland, Joseph R., to Miehle-Goss-Dexter, Inc. Sheet feeding apparatus. Re. 25,152, 4–3–62, Cl. 271—30.
Wicklatz, John E., and C. W. Moberly, to Phillips Petroleum Co. Process for production of olefin polymers. 3,049,529, 8–14–62, Cl. 260—94.9.
Wickline, William A. : *See*—
Fuller, John L., Hungerford, and Wickline. 3,023,828.
Wicklund, Harold P. : *See*—
Anderson, Theodore H., Flavin, and Wicklund. 3,037,-768.
Flavin, Theodore F., and Wicklund. 3,037,689.
Wicklund, Harold P., to International Business Machines Corp. Tractor feed for continuous forms. 3,015,425, 1–2–62, Cl. 226—74.
Wickman, Axel C. Control means for hydraulically operated vehicle gear-change mechanisms. 3,028,765, 4–10–62, Cl. 74—472.
Wickman, Axel C. Epicyclic power transmission mechanisms. 3,035,458, 5–22–62, Cl. 74—761.
Wickman Ltd. : *See*—
Dixon, Reginald John, Jones, and Riley. 3,043,166.
Payne, Colin, Cook, and Loudon. 3,026,600.
Wicks, Frederick. Trash eliminator for potato digger. 3,029,-942, 4–17–62, Cl. 209—90.

Wicks, Frederick. Pipe handling machine. 3,034,668, 5–15–62, Cl. 214—83.1.
Wicks, Grace L., to Burndy Corp. Modular electrical connector. 3,040,289, 6–19–62, Cl. 339—126.
Wickstrom, Theodore: *See*—
Claras, Carl W., and Wickstrom. 3,015,695.
Wickwire, Theodore H., and G. R. Connor, to Trent, Inc. Electrical heating apparatus. 3,043,942, 7–10–62, Cl. 219—19.
Wicoff, John R., ½ to S. A. Wladis. Sample removing apparatus. 3,062,056, 11–6–62, Cl. 73—425.6.
Wicox, Alwin S., to Bell Telephone Laboratories, Inc. Test socket. 3,065,443, 11–20–62, Cl. 339—150.
Widelo, John S., to The Lane Construction Corp. Method and apparatus for spreading stone and other aggregates. 3,058,-404, 10–16–62, Cl. 94—46.
Widenhofer, Gene H.: *See*—
McKnight, William B., McClusky, and Widenhofer. 3,049,414.
Widenor, James K. Skin diver's mask. 3,027,562, 4–3–62, Cl. 2—14.
Widenor, Malcolm D.: *See*—
Buchtenkirch, Arthur J., Lipkin, and Widenor. 3,053,-332.
Wideroe, Rolf: *See*—
Brandle, Heinrich, and Wideroe. 3,030,442.
Wideroe, Rolf, and M. Sempert, to Aktiengesellschaft Brown, Boveri & Cie. Electron lens. 3,021,445, 2–13–62, Cl. 313—84.
Widess, Moses B., to Pan American Petroleum Corp. Drilling wells with clear water. 3,040,821, 6–26–62, Cl. 175—66.
Widess, Moses B., to Pan American Petroleum Corp. Displaying seismic signal character. 3,066,300, 11–27–62, Cl. 340—109.
Widlansky, William: *See*—
Hamm, Clarence L., and Widlansky. 3,038,556.
Widmark, Gustaf H.: *See*—
Edström, John O., and Widmark. 3,026,195.
Widmer, Albert C., to International Business Machines Corp. Voltage holding circuit. 3,050,673, 8–21–62, Cl. 320—1.
Widmer, Gustav: *See*—
Zuppinger, Paul, and Widmer. 3,027,339.
Widmer, Gustav, to Ciba Ltd. Dry preparation capable of yielding a cation-active melamine resin solution by dissolution in water. 3,043,741, 7–10–62, Cl. 162—167.
Widmer, Jean. Balance-wheel for timepieces. 3,052,084, 9–4–62, Cl. 58—107.
Widmer, Thomas F., to Westinghouse Electric Corp. Magnetic gripping device having a serpentine flux path. 3,070,-718, 12–25–62, Cl. 310—14.
Wiebe, Henry J., to General Aeromation, Inc. Ground mover and retriever vehicle for airplanes. 3,042,130, 7–3–62, Cl. 180—14.
Wiebicke, Klaus: *See*—
Meurer, Siegfried, Jaeckel, Wiebicke, and Lachmann. 3,054,390.
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Wiebke, Armin T.: *See*—
Finnegan, William G., Smith, and Wiebke. 3,055,780.
Wiebusch, Charles F., to Bell Telephone Laboratories, Inc. Signal controlled steering systems. 3,027,859, 4–3–62, Cl. 114—23.
Wiech, George H., and R. A. Dragon, to Celanese Corp. of America. Polyurethane composition containing a chlorinated phosphate ester and a basic lithium compound and process of making same. 3,041,295, 6–26–62, Cl. 260—2.5.
Wiechell, Heinz: *See*—
Schulte, Friedrich W., Wiechell, and Rosenkranz. 3,034,-383.
Wiechering, Friedrich W., to Radiation Counter Laboratories, Inc. Radiation counting means. 3,019,363, 1–30–62, Cl. 313—93.
Wiechert, Rudolf, E. Kaspar, and M. Schenck, to Schering A.G. Anabolically active 2-chlor-Δ¹-androsten-17-ol-3-ones and method of making same. 3,069,435, 12–18–62, Cl. 260—397.4.
Wiechmann, Heinz-Gunther: *See*—
Kresslein, Albert, and Wiechmann. 3,060,672.
Wieckman, Frederic, and A. F. Plato, to Kristian Staerk A/S. Chuck assemblies for mounting on the spindle of a veneer cutting lathe. 3,044,511, 1–17–62, Cl. 144—209.
Wieckmann, Gerhard, to Karl Huber Blechwarenfabrik. Container closure. 3,038,624, 6–12–62, Cl. 215—41.
Wieczorek, Eugene E., to In-Sink-Erator Mfg. Co. Disposal unit. 3,025,007, 3–13–62, Cl. 241—100.5.
Wiedemann, John S., and E. B. Schumacher, to Esso Research and Engineering Co. Vessel for transporting low temperature liquids. 3,031,856, 5–1–62, Cl. 62—45.
Wiedemann Machine Co.: *See*—
Friedland, Martin. 3,049,038.
Wiedemann, Martin J.: *See*—
MacNaughton, Lesley A., and Wiedemann. 3,053,304.
Wiedemer, Karl: *See*—
Dornier, Peter, Jager, and Wiedemer. 3,070,327.
Wieder, Herman H., to United States of America, Navy. Four terminal ferroelectric crystals. 3,032,706, 5–1–62, Cl. 323—94.
Wiederhut, Wolfgang, and M. Danhammer, to Theodor Groz & Sohne & Ernst Beckert, Nadelfabrik Commandit-Gesellschaft. Latch needle for knitting machines or the like. 3,031,867, 5–1–62, Cl. 66—121.
Wiederkehr, Karl P., to Allis-Chalmers Mfg. Co. Integral shell type transformer. 3,040,280, 6–19–62, Cl. 336—92.
Wiedman, George P., Sr. Surface bumper. 3,065,680, 11–27–62, Cl. 94—31.
Wiedmann, Ernst, and A. R. Grad, to The Oilgear Co. Pump control. 3,026,854, 3–27–62, Cl. 121—41.
Wiedmann, Ernst, R. E. Davis, and A. R. Grad, to The Oilgear Co. Pump multiposition preset control. 3,065,740, 11–27–62, Cl. 121—120.
Wiedmer, Friedrich S., and T.-P. Liou, to International Business Machines Corp. Arithmetic system. 3,055,587, 9–25–62, Cl. 235—176.
Wiedt, Karl W., Jr., to Universal-Cyclops Steel Corp. Method of producing laminated metal strip. 3,068,564, 12–18–62, Cl. 29—471.1.
Wiegand, Christian: *See*—
Muller, Erwin, Wiegand, and Braun. 3,050,475.
Wiegand, Christian, and K. Kaemmerer, to Bayer Aktiengesellschaft, Farbenfabriken. Process of treating coccidiosis with 5-nitrobenzimidazoles. 3,054,722, 9–18–62, Cl. 167—53.1.
Wiegand, David E., to United States of America, Atomic Energy Commission, Hydraulic servo. 3,031,846, 5–1–62, Cl. 60—52.
Wiegand, Edward A. Safety building construction. 3,034,-606, 5–15–62, Cl. 189—1.
Wiegand, Edwin L., Co.: *See*—
Ammerman, George E. 3,017,491.
Ammerman, George E. 3,061,705.
Boggs, Alben C. 3,026,604.
Boggs, Alben C. 3,031,739.
Drugmand, Lester D. 3,048,688.
Hall, Richard C. 3,032,638.
McOrlly, Joseph, and Ammerman. 3,017,490.
Wiegand, Edwin L. 3,061,808.
Zentgraf, Fritz R. L. 3,047,706.
Wiegand, Edwin L., to Edwin L. Wiegand Co. Electric heaters. 3,061,808, 10–30–62, Cl. 338—242.
Wiegand, Willy. Fluid-dispensing control. 3,040,992, 6–26–62, Cl. 239—414.
Wiegardt, John L., Jr. Reclamation of oyster ground. 3,062,-182, 11–6–62, Cl. 119—4.
Wieger, George F., to The Bendix Corp. Brake actuator. 3,064,767, 11–20–62, Cl. 188—78.
Wiegers, Irvin E., to Alco Valve Co. Four-way changeover valve. 3,037,525, 6–5–62, Cl. 137—625.29.
Wiegers, Irvin E., to Alco Valve Co. Piston slide valve. 3,053,700, 7–24–62, Cl. 137—625.29.
Wiegert, Philip E.: *See*—
De La Mater, George B., and Wiegert. 3,036,063.
Wiegert, Philip E., to Mallinckrodt Chemical Works. Iodobenzoic acid compounds. 3,026,351, 3–20–62, Cl. 260—519.
Wiegner, Andrew N., Jr.: *See*—
Toth, Peter, Jr., and Wiegner. 3,039,706.
Wiehl, Klemens, to Siemens-Schuckertwerke Aktiengesellschaft. Electroacoustic transducer. 3,046,361, 7–24–62, Cl. 179—100.41.
Wiekhorst, Kenneth R. Earth tamper. 3,067,657, 12–11–62, Cl. 94—49.
Wieland, Peter: *See*—
Reichstein, Tadeus, Wettstein, Anner, Billeter, Heusler, Neher, Schmidlin, Ueberwasser, and Wieland. 3,033,858.
Reichstein, Tadeus, Wettstein, Anner, Billeter, Heusler, Neher, Schmidlin, Ueberwasser, and Wieland. 3,035,-049.
Wettstein, Albert, Anner, Heusler, and Wieland. 3,056,-779.
Wettstein, Albert, Anner, Meystre, Wieland, Ehmann, Heusler, Hunger, and Kebrle. 3,026,340.
Wettstein, Albert, Anner, Meystre, Wieland, Ehmann, Heusler, Hunger, and Kebrle. 3,033,881.
Wettstein, Albert, Anner, Meystre, Wieland Ehmann, Heusler, Hunger, and Kebrle. 3,040,072.
Wettstein, Albert, Heusler, and Wieland. 3,040,039.
Wettstein, Albert, Neher, De Saulles, Vischer, and Wieland. 3,033,748.
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Wieland-Werke A.G.: *See*—
Vosskuehler, Hugo. 3,059,295.
Wielich, Kurt H.: *See*—
Berger, Frank M., and Wielich. 3,039,922.
Wielicki, Edward A.: *See*—
Koch, Walter T., Lytton, and Wielicki. 3,051,667.
Wielicki, Henry, to Radio Corporation of America. Electrostatic printing. 3,041,168, 6–26–62, Cl. 96—1.
Wielicht, Henry, to Radio Corp. of America. Reversal type electrostatic developer powder. 3,041,169, 6–26–62, Cl. 96—1.
Wielobob, Mieczyslaw, to Marconi's Wireless Telegraph Co. Ltd. Polarisation screen and filter for radio waves. 3,031,-664, 4–24–62, Cl. 343—756.
Wieman, Robert L., to Minnesota Mining and Mfg. Co. Method for contracting resilient rolls to fit sleeves thereon and product. 3,035,331, 5–22–62, Cl. 29—117.
Wiemer, Jean, to Metallgesellschaft Aktiengesellschaft. Supporting insulators for electrofilters. 3,033,918, 5–8–62, Cl. 174—139.
Wiemer, Jean, and H. Müller, to Metallgesellschaft Aktiengesellschaft. Electrostatic filters. 3,029,578, 4–17–62, Cl. 55—122.

Wiemer, Jean, and H. Muller, to Metallgesellschaft Aktiengesellschaft. Apparatus for filtering gases. 3,049,849, 8–21–62, Cl. 55—122.

Wiencek, Zbigniew, to Warwick Mfg. Corp. Video amplifier. 3,070,656, 12–25–62, Cl. 178—7.5.

Wieneke, Carl M. Method and apparatus for spacing drapery pleats. 3,058,634, 10–16–62, Cl. 223—28.

Wiener, Jerome B.: *See*—
Azari, Eric, Wiener, and Greenstadt. 3,037,625.
Hayes, Robert M., Nelson, Wiener and Armstrong. 3,021,905.
Nelson, Alfred M., Stern, and Wiener. 3,016,239.
Nelson, Alfred M., and Wiener. 3,023,895.
Nelson, Alfred M., and Wiener. 3,032,750.

Wiener, Jerome B., to The Magnavox Co. Card processing system. 3,023,894, 3–6–62, Cl. 209—72.

Wiener, Jerome B., to The Magnavox Co. Card processing system. 3,039,603, 6–19–62, Cl. 209—72.

Wiener, Rainer, to Vereinigte Osterreichische Eisen -und Stahlwerke Aktiengesellschaft. Single-chain scraper conveyor. 3,047,129, 7–31–62, Cl. 198—174.

Wier, Joe P.: *See*—
Caldwell, Blake M., and Wier. 3,067,678.

Wier, Thomas G., and F. L. Di Vita, to International Harvester Co. Hitch sway limiting device. 3,047,076, 7–31–62, Cl. 172—450.

Wierings, Louwrens J. R., to Hollandse Signaalapparaten, N.V. Speed regulating device for a winding machine. 3,031,150, 4–24–62, Cl. 242—45.

Wierman, Edward T.: *See*—
Jack, Milton K., and Wierman. 3,052,634.

Wiersma, Rudolf J.: *See*—
Freedman, Harold P., Vielle, and Wiersma. 3,035,260.

Wiert, James A., to The Bendix Corp. Sonic altimeter. 3,038,142, 6–5–62, Cl. 340—1.

Wierzbicki, Alexander, and J. J. Haftke, to Dewrance & Co. Ltd. Butterfly valves. 3,036,812, 5–29–62, Cl. 251—173.

Wiese, Charles R.: *See*—
La Boda, Mitchell A., and Wiese. 3,057,764.
La Boda, Mitchell A., and Wiese. 3,057,765.

Wiese, Donald R., to K & W Products, Inc. Dispenser for soap and other viscous materials. 3,034,687, 5–15–62, Cl. 222—256.

Wiese, Herbert K.: *See*—
Craven, William J., and Wiese. 3,026,344.

Wiese, Herbert K., and S. B. Lippincott, to Esso Research and Engineering Co. Selective hydrogenation of cyclododecatriene to cyclododecene. 3,022,359, 2–20–62, Cl. 260—666.

Wiese, Martin: *See*—
Hauck, Michael, and Wiese. 3,017,634.

Wieseler, Martin A., M. P. and R. M. Self-locking gate latch. 3,042,435, 7–3–62, Cl. 292—213.

Wieseler, Myron P.: *See*—
Wieseler, Martin A., M. P. and R. M. 3,042,435.

Wieseler, Raymond M.: *See*—
Wieseler, Martin A., M. P. and R. M. 3,042,435.

Wiesenhofer, Fred R. Pin pan. 3,061,901, 11–6–62, Cl. 24—3.

Wiesinger, Frederick C., and G. H. Noll, to Wildman Jacquard Co. Controller for knitting machines. 3,023,595, 3–6–62, Cl. 66—50.

Wiesinger, Frederick C., and T. C. Lyster, to Wildman Jacquard Co. Method and machine for knitting patterned fabrics. 3,024,631, 3–13–62, Cl. 66—14.

Wieske, Theophil: *See*—
Becker, Ewald G., and Wieske. 3,015,566.

Wieslander, Frederick W., E. L. Copony, W. A. Davidson, F. D. Alexander, and J. V. Smith, to Symington Wayne Corp. Inventory control system. 3,030,015, 4–17–62, Cl. 235—94.

Wiesloff, Torsten. Methods of extinguishing fire. 3,033,-291, 5–8–62, Cl. 169—1.

Wiesmann, Joseph W., to H. H. Robertson Co. Domestic water distribution system. 3,028,966, 4–10–62, Cl. 210—153.

Wiesner, Ernst. Drive motor for apparatus for reproducing sound records from sound carriers. 3,030,535, 4–17–62, Cl. 310—261.

Wiesner, Harold J., to The Bendix Corp. Method of plating chromium and the like to titanium, its alloys, and the like. 3,065,154, 11–20–62, Cl. 204—32.

Wiesner, Henry R.: *See*—
Jadlice, Richard H., and Wiesner. 3,051,637.

Wiesner, Jerome B., to Raytheon Co. Communication systems. 3,036,301, 5–22–62, Cl. 343—100.

Wiesner-Rapp Co., Inc.: *See*—
Valentino, Jean G. 3,024,399.

Wiessner, Edward E.: *See*—
Cobb, Clifton A., Wiessner, and Orr. 3,016,147.

Wiest, Quentin W.: *See*—
Lenk, Elmer N., Weeks, and Wiest. 3,054,036.
Lenk, Elmer N., Weeks, and Wiest. 3,054,090.

Wieszeck, Emil S. Development time meter. 3,019,652, 2–6–62, Cl. 73—363.7.

Wigal, Voorhis F. Climbing toy. 3,061,972, 11–6–62, Cl. 46—206.

Wigal, Vorhis F., to Tigrett Industries, Inc. Globe. 3,055,-123, 9–25–62, Cl. 35—46.

Wigemark, Bertil V. Carrying handle for cardboard boxes or the like. 3,044,105, 7–17–62, Cl. 16—125.

Wigert, John W., to Westinghouse Electric Corp. Cooling device. 3,035,419, 5–22–62, Cl. 62—259.

Wigg, Raymond E., and N. Battle, to Rolls-Royce Ltd. Sealing means between relatively rotating parts. 3,051,-497, 8–28–62, Cl. 277—3.

Wiggermann, Georg, ½ to W. Reiners. Hydrostatic torque-measuring apparatus. 3,057,193, 10–9–62, Cl. 73—136.

Wiggermann, Georg, to Reiners & Wiggermann Getriebe- und Maschinenbau. Controllable hydraulic machine of the triple-gear type. 3.067,691, 12–11–62, Cl. 103—120.

Wiggermann, Georg, to Reiners & Wiggermann Getriebe- und Maschinenbau. Hydraulic gear-type machine of controllable displacement. 3,068,803, 12–18–62. Cl. 103—120.

Wiggins, John H. Metal storage tank. 3,031,800, 5–1–62, Cl. 50—54.

Wiggins, John S.: *See*—
Friedland, Stephen S., Mayer, and Wiggins. 3,043,955.

Wiggins, Richard F., J. A. Maltas, and R. L. Gann, to The Gyromat Corp. Machine for positioning the handles of containers. 3,017,009, 1–16–62, Cl. 198—29.

Wiggins, Richard F., J. A. Maltas, and F. E. Ullman, to The Gyromat Corp. Apparatus for transferring objects between conveyors. 3,017,010, 1–16–62, Cl. 198—31.

Wigginton, Raymond J., to Laporte Titanium Ltd. Manufacture of titanium dioxide. 3,062,673, 11–6–62, Cl. 106—300.

Wight, Albert B.: *See*—
Mosher, Richard K., and Wight. 3,047,856.

Wight, Albert B., to Laboratory for Electronics, Inc. Antenna beam scanning system. 3,067,419, 12–4–62, Cl. 343—17.1.

Wight, Carlyle G.: *See*—
Fleck, Raymond N., and Wight. 3,029,242.
Fleck, Raymond N., and Wight. 3,064,002.
Fleck, Raymond N., and Wight. 3,067,371.
Fleck, Raymond N., and Wight. 3,069,470.
Fleck, Raymond N., and Wight. 3,069,482.

Wight, Donald F. Means for measuring and mixing lubricating oil with gasoline. 3,055,554, 9–25–62, Cl. 222—133.

Wight, Ralph H., to J. W. Fecker, Inc. Pressure plate for a projection printing apparatus. 3,051,039, 8–28–62, Cl. 88—24.

Wightman, Robert E.: *See*—
Parsons, James R., and Wightman. 3,060,662.

Wigley, Patrick A., and R. Lister, to North American Philips Co., Inc. High level colour demodulation system. 3,042,-746, 7–3–62, Cl. 178—5.4.

Wigner, Donald F.: *See*—
Sprague, Richard L., and Wigner. 3,047,690.

Wigner, Eugene P., L. A. Ohlinger, G. J. Young, and A. M. Weinberg, to United States of America, Atomic Energy Commission. Method and apparatus for conducting a nuclear chain reaction. 3,052,613, 9–4–62, Cl. 204—154.2.

Wijard, Endel, to Casius Corp, Ltd. Manufacture of reinforced light-weight concrete. 3,030,664, 4–24–62, Cl. 18—47.5.

Wijdeveld, Petrus W. J., F. Scholtze, and A. F. Bosters, to North American Philips Co., Inc. Device for automatically transporting dry granular material. 3,063,755, 11–13–62, Cl. 302—58.

Wijn, Henricus P. J.: *See*—
Duinker, Hilmon, Stuijts, Westmijze, and Wijn. 3,023,166.
Gorter, Evert W., Wijn, and Esveldt. 3,030,306.

Wikdahl, Nils A. L. Method and apparatus for separating fibrous suspensions in hydrocyclones. 3,039,608, 6–19–62, Cl. 209—211.

Wike, Albert E., and A. R. Beaver, to Addressograph-Multigraph Corp. Printing machines. 3,018,723, 1–30–62, Cl. 101—134.5.

Wikne, Sverre. Porous structures. 3,027,266, 3–27–62, Cl 106—86.

Wikstrom, Hugo M. Safety device for a revolver. 3,022,598, 2–27–62, Cl. 42—66.

Wilantt, Jack M.: *See*—
Ficklin, Raymond W. 3,032,069.

Wilbanks, James A.: *See*—
Striplin, Marcus M., Jr., Stinson, and Wilbanks. 3,015,-552.

Wilber, Howard L. Spherical loudspeaker enclosure. 3,026,-955, 3–27–62, Cl. 181—31.

Wilber, Howard L. Detachable spherical loudspeaker enclosure. 3,026,956, 3–27–62, Cl. 181—31.

Wilberg, John B., to Celanese Corp. of America. Laminated fabrics. 3,056,429, 10–2–62, Cl. 138—126.

Wilbert, Godfrey, and P. Sosis, to Nepera Chemical Co., Inc. Method of producing 2-amino-1-phenyl-1-propanol hydrochloride. 3,028,429, 4–3–62, Cl. 260—570.6.

Wilbur, Arnold G., to Celanese Corp. of America. Halogenated polyvinyl resin composition plasticized with a mixed ester of a polyhydric alcohol. 3,069,377, 12–18–62, Cl. 260—30.4.

Wilbur, Donald A.: *See*—
Peters, Philip H., Jr., and Wilbur. 3,025,475.
Peters, Philip H., Jr., and Wilbur. 3,041,481.

Wilbur, Donald A., and P. H. Peters, Jr., to General Electric Co. Cathode coupled magnetron system. 3,039,019, 6–12–62, Cl. 315—39.53.

Wilbur, Irvin M., and N. E. Brown, to Avco Corp. Voltage regulator and overload protection system. 3,026,469, 3–20–62, Cl. 323—22.

Wilbur, Irvin M., and H. H. Lenk. Ripple balancing system. 3,064,203, 11–13–62, Cl. 330—40.

Wilbur, Paul C.: *See*—
Vadas, Leslie, and Wilbur. 3,045,731.

Wilbur, Paul C., L. Vadas, and S. Puccinelli, to FMC Corp. Fruit preparation machine. 3,045,730, 7–24–62, Cl. 146—28.
Wilburn, Edgar H., to Johnson & Johnson. Sterilizable and sterilized hypodermic syringe assemblies. Re. 25,113, 1–9–62, Cl. 128—215.
Wilburn, Sampson. Tap beer cleaning installation. 3,044,483, 7–17–62, Cl. 137—239.
Wilburn, William R.: *See*—
Ensor, Clyde F., and Wilburn. 3,026,721.
Wilcken, Hugo, to W. E. Heilmann. Helical thread sliding clasp fasteners. 3,047,923, 8–7–62, Cl. 24—205.13.
Wilcken, Hugo, to W. E. Heilmann. Sliding clasp fasteners. 3,047,924, 8–7–62, Cl. 24—205.13.
Wilcken, Hugo, to W. E. Heilmann. Coil winding device for helical filament sliding clasp fasteners. 3,052,922, 9–11–62, Cl. 18—19.
Wilckens, Eibe A., to Crown Cork & Seal Co., Inc. Cap inspection apparatus. 3,015,388, 1–2–62, Cl. 209—75.
Wilckens, Eibe A., to Crown Cork & Seal Co., Inc. Closure. 3,047,176, 7–31–62, Cl. 215—40.
Wilcock, John: *See*—
Edwards, Harry, Partridge, Shanks, and Wilcock. 3,042,311.
Wilcolator Co., The: *See*—
Cantlin, John H., and Hildenbrandt. 3,045,689.
Wilcox, Arnold G., to Wilcox Mfg. Co. Auger type mining machine. 3,026,098, 3–20–62, Cl. 262—27.
Wilcox, Arnold G., Jr., to Wilcox Mfg. Co. Continuous mining machine. 3,044,753, 7–17–62, Cl. 262—9.
Wilcox, Bradford. Hand nutcracker. 3,066,713. 12–4–62, Cl. 146—16.
Wilcox, Clinton S., to General Railway Signal Co. Posting and transfer system for display indicators. 3,054,984, 9–18–62, Cl. 340—154.
Wilcox, Doyle E.: *See*—
Slater, John M., Wilcox, and Pondrom. 3,062,051.
Wilcox, Dwight D., Jr., to Ampex Corp. Frequency and/or phase demodulator. 3,022,461, 2–20–62, Cl. 329—103.
Wilcox Electric Co., Inc.: *See*—
Tyrrell, Paul C., and Wiley. 3,046,466.
Wilcox, Forrest S., to E. I. du Pont de Nemours and Co. Method of laminating layers of different polymers. 3,026,229, 3–20–62, Cl. 154—137.
Wilcox, Harvey N., to Commercial Picture Equipment, Inc. Support for a picture projection screen. 3,041,032, 6–26–62, Cl. 248—170.
Wilcox, Harvey N., and D. P. Smith, to Commercial Picture Equipment, Inc. Screen frame fixture. 3,047,061, 7–31–62, Cl. 160—351.
Wilcox, Hayden G.: *See*—
Hobson, Robert R., and Wilcox. 3,020,887.
Wilcox, Isaac L., to Seabright-Oswego Falls Corp. Milk bottle cap. 3,059,799, 10–23–62, Cl. 215—56.
Wilcox, Jack E., to Philco Corp. Apparatus for producing a single sideband signal in a sampling system. 3,027,523, 3–27–62, Cl. 332—45.
Wilcox, John C. Optical inspection apparatus. 3,034,396, 5–15–62, Cl. 88—14.
Wilcox, Joseph C.: *See*—
Gretler, Albert C., Wilcox, and Hopkins. 3,068,104.
Wilcox, Kenneth L. Conveyor counter. 3,016,123, 1–9–62, Cl. 193—35.
Wilcox, Leslie T. Pie crust perforator. 3,026,823, 3–27–62, Cl. 107—49.
Wilcox Mfg. Co.: *See*—
Wilcox, Arnold G. 3,026,098.
Wilcox, Arnold G., Jr. 3,044,753.
Wilcox, Orland W.: *See*—
Morton, William D., Jr., and Wilcox. 3,035,573.
Wilcox, Oswin B., to E. I. du Pont de Nemours and Co. Aluminum oxide production. 3,039,849, 6–19–62, Cl. 23—141.
Wilcox, Robert L.: *See*—
McCarter, Ed R., and Wilcox. 3,028,579.
Wilcox, Roger L. to A. & M. Karagheusion, Inc. Tufted fabric. 3,067,430, 12–11–62, Cl. 2—278.
Wilcox, Roger L., to A. & M. Karagheusion, Inc. Apparatus for forming tufted patterns. 3,067,701, 12–11–62, Cl. 112—79.
Wilcox, Rollo L. Portable sportsman's seat. 3,067,975, 12–11–62, Cl. 248—216.
Wilcox, Roy C., to Radio Corp. of America. Magnetic record reproducing apparatus. 3,048,665, 8–7–62, Cl. 179—100.2.
Wilcox, Roy F. Locking pipe holder. 3,044,135, 7–17–62, Cl. 24—263.
Wilcox, Stanley W.: *See*—
Baltosser, Robert W., and Wilcox. 3,035,479.
Wilcox, Walter M., to Simonds Saw and Steel Co. Slotting segments with V-shaped cutting portion for corrugated paperboard and the like. 3,064,486, 5–29–62, Cl. 83—671.
Wilcox, Wayne L., to Arcos Corp. Overlay welding electrode. 3,016,452, 1–9–62, Cl. 219—146.
Wilcoxen, Charles H., Jr.: *See*—
Carlson, George J., Dong, Higgins, and Wilcoxen. 3,066,127.
Higgins, Thair L., and Wilcoxen. 3,068,217.
Wilcoxon, Kenneth H., to United States of America, Navy. Stabilized echo depth sounding apparatus. 3,039,078, 6–12–62, Cl. 340—5.
Wilcoxon, Ralph E., to Thompson Ramo Wooldridge Inc. High pressure permanent molding. 3,068,539, 12–18–62, Cl. 22—93.
Wilcoxon, Ralph E., to Thompson Ramo Wooldridge Inc. Piston and method of making same. 3,070,414, 12–25–62, Cl. 309—10.
Wild, Anton J.: *See*—
Schulze, Herman P., and Wild. 3,031,820.
Wild, Herbert R.: *See*—
Brennemann, Andrew E., Wild, and Wolensky. 3,054,091.
Haynes, Munro K., Russell, and Wild. 3,019,419.
Wild, Jack: *See*—
Mosey, Frederick W., Langford, and Wild. 3,035,814.
Wild, John J., and H. W. Heupel. Apparatus for artificial oxygenation of blood. 3,070,092, 12–25–62, Cl. 128—214.
Wild, Kenneth: *See*—
Miller, William S., and Wild. 3,041,199.
Wild, Olof H., to Olin Mathieson Chemical Corp. Gas operated firearm with a movable gas cylinder functioning as an inertia member. 3,024,706, 3–13–62, Cl. 89—193.
Wild, Rolf H., to Olin Mathieson Chemical Corp. Firearms control device for automatically regulating gas flow. 3,036,501, 5–29–62, Cl. 89—193.
Wildbolz, Rudolf, to Rieter Machine Works Ltd. Bale rasp. 3,606,878, 12–4–62, Cl. 241—277.
Wildbolz, Rudolf, R. Binder, anr P. Staheli, to Aktiengesellschaft Joh. Jacob Rieter & Cie. Automatic carding plant. 3,029,477, 4–17–62, Cl. 19—73.
Wilde, Arthur E., to Shaffer Tool Works. Submarine drilling head and blowout preventer. 3,023,012, 2–27–62, Cl. 277—31.
Wilde, Arthur E., to Shaffer Tool Works. Seal for drilling heads and the like. 3,029,083, 4–10–62, Cl. 277—164.
Wilde, Bertrand E., to Monsanto Chemicals Ltd. Production of salts of mercaptothiazoles. 3,043,847, 7–10–62, Cl. 260—299.
Wilde, Bryce B.: *See*—
Halley, Clay J., Jr., and Wilde. 3,024,979.
Wilde, Frank S. Portable conveyor assembly. 3,017,012, 1–16–62, Cl. 198—95.
Wilde, Geoffrey L., and W. T. Howell, to Rolls-Royce Ltd. Multi-stage axial-flow compressors. 3,024,967, 3–13–62, Cl. 230—122.
Wilde, Geoffrey L., and J. O. Mortlock, to Rolls-Royce Ltd. Vertical take-off aircraft. 3,033,493, 5–8–62, Cl. 244—23.
Wilde, Geoffrey L., A. C. Newton, and R. M. Fitzgerald, to Rolls-Royce Ltd. By-pass gas-turbine engine and control therefor. 3,060,680, 10–30–62, Cl. 60—35.6.
Wilde, Herman E. Bacteriacidal composition. 3,058,881, 10–16–62, Cl. 167—38.6.
Wilde, John, and D. E. P. Norton, to Bleachers' Association Ltd. Open-width washing machinery. 3,044,286, 7–17–62, Cl. 68—184.
Wilde, Kurt: *See*—
Schmidt, Theodor, and Wilde. 3,022,057.
Wilde, Robert F.: *See*—
Malerich, Jerome B., and Wilde. 3,027,254.
Wilder, Arthur G., to Sierra Metals Corp. Shell mold for investment castings and method of making same. 3,041,-688, 7–3–62, Cl. 22—193.
Wilder, Frank N.: *See*—
Rice, Arthur R., and Wilder. 3,062,762.
Wilder, Gene R., to Monsanto Chemical Co. Alicyclic oxyaniline rubber antidegradants. 3,061,585, 10–30–62, Cl. 260—45.9.
Wilder, Gene R., to Monsanto Chemical Co. N-(nitrophenyl) lower alkylcyclohexylamines. 3,067,254, 12–4–62, Cl. 260—576.
Wilder, Justin E., to Penn Controls, Inc. Oil burner control. 3,032,098, 5–1–62, Cl. 158—28.
Wilder, Lawrence B., to Pan American Petroleum Corp. Check valve. 3,040,710, 6–26–62, Cl. 121—17.
Wilder, Stuart, Jr., to The Reliance Electric and Engineering Co. Tension maintaining wind or unwind control. 3,042,-333, 7–3–62, Cl. 242—75.5.
Wildern, William J., to The Roberts Brass Mfg. Co. Flared tube gas cock. 3,038,695, 6–12–62, Cl. 251—181.
Wilde, Howard E. Snow attachment for lawn mowers. 3,064,3:9. 11–20–62, Cl. 37—43.
Wildhaber, Ernest. Form-cutting tool. 3,022,569, 2–27–62, Cl. 29—102.
Wildhaber, Ernest. Universal joint. 3,041,858, 7–3–62, Cl. 64—21.
Wildhaber, Ernest. Method of and machine for producing crowned teeth. 3,046,844, 7–31–62, Cl. 90—4.
Wildhaber, Ernest. Threaded rotary member for generating spur and helical gear teeth, and method and means for using the same. 3,060,643, 10–30–62, Cl. 51—59.
Wildi, Bernard S., to Monsanto Chemical Co. Method of preparing steroid derivatives. 3,022,312, 2–20–62, Cl. 260—289.
Wildi, Bernard S., to Monsanto Chemical Co. Thermoelectric device. 3,046,322, 7–24–62, Cl. 136—5.
Wildi, Bernard S., to Monsanto Chemical Co. Photoelectric device. 3,046,323, 7–24–62, Cl. 136—89.
Wildi, Bernard S., and J. E. Katon, to Monsanto Chemical Co. Thermoelectric device. 3,060,253, 10–23–62, Cl. 136—5.
Wildman Jacquard Co.: *See*—
Brooke, Le Roy J. 3,059,456.
Brooke, Le Roy J. 3,066,511.
Hill, John H. 3,021,698.
Hill, John H. 3,023,596.
Hill, John H. 3,045,459.
Wiesinger, Frederick C., and Lyster. 3,024,631.
Wiesinger, Frederick C., and Noll. 3,023,595.

Wildstein, Irving. Soft nose cap-firing bullet. 3,059,376, 10–23–62, Cl. 46—200.

Wiles, Charles R., to The Dow Chemical Co. Process for making shaped cellular articles from foamable thermoplastic alkenyl aromatic resins. 3,015,851, 1–9–62, Cl. 18—48.

Wiles, James P.: *See*—
Bowar, Gerald J., Kelley, and Wiles. 3,031,653.

Wiles, William F., and J. R. Evans, to Rolls-Royce Ltd. Vertical take-off aircraft. 3,042,342, 7–3–62, Cl. 244—23.

Wilevco, Inc.: *See*—
Cummings, William L. 3,029,069.

Wiley, Averill J., to Sulphite Products Corp. Transfer of gases into and from liquid media. 3,017,951, 1–23–62, Cl. 183—2.5.

Wiley, Douglas W., to E. I. du Pont de Nemours and Co. 4-substituted-1,1,2-tricyano-1,3-butadiene and process of preparation. 3,040,083, 6–19–62, Cl. 260—465.

Wiley, Elmer H., and E. G. Fridrich, to General Electric Co. Electric lamp. 3,025,424, 3–13–62, Cl. 313—115.

Wiley, Frank L., to North American Aviation, Inc. Voltage regulator. 3,060,320, 10–23–62, Cl. 307—64.

Wiley, George S., to Bundy Tubing Co. Method and apparatus for making tube. 3,052,199, 9–4–62, Cl. 113—33.

Wiley, John B., to General Motors Corp. Dynamoelectric machine. 3,062,976, 11–6–62, Cl. 310—60.

Wiley, Lee M., Jr. Fishing lure. 3,054,209, 9–18–62, Cl. 43—42.02.

Wiley, Leo E., and H. L. Meldrum. Mop frame and handle assembly. 3,031,707, 5–1–62, Cl. 15—147.

Wiley, Morris A.: *See*—
Kluge, Herman D., Kreuz, and Wiley. 3,069,355.

Wiley, Morris A., to Texaco Inc. Method of incorporating metal complexes in a base oil. 3,055,828, 9–25–62, Cl. 252—18.

Wiley, Morris A., and H. D. Kluge, to Texaco Inc. Method of incorporating metal complexes in a base oil. 3,055,829, 9–25–62, Cl. 252—18.

Wiley, Ralph M.: *See*—
Gewherd, Edwin R., Bauman, and Wiley. 3,056,765.

Wiley, Ralph M., to The Dow Chemical Co. Separation of suspended solids. 3,055,827, 9–25–62, Cl. 210—53.

Wiley, Roy O.: *See*—
Knochel, William J., and Wiley. 3,056,897.

Wiley, Roy O., to The Bryant Electric Co. Wiring device. 3,036,171, 5–22–62, Cl. 200—67.

Wiley, Roy O., to The Bryant Electric Co. Wiring device for controlling circuits. 3,054,878, 9–18–62, Cl. 200—152.

Wiley, Roy O., to The Bryant Electric Co. Wiring device with grounding means. 3,064,224, 11–13–62, Cl. 339—14.

Wiley, Roy O., and C. D. Baxendell, to The Bryant Electric Co. Wiring device. 3,036,185, 5–22–62, Cl. 200—172.

Wiley, Roy O., and E. Bullis, Jr., to The Bryant Electric Co. Wiring device. 3,064,230, 11–13–62, Cl. 339—217.

Wiley, Wallace F., Jr.: *See*—
Tyrrell, Paul C., and Wiley. 3,046,466.

Wiley, William C.: *See*—
Saari, John M., Damoth, and Wiley. 3,049,638.

Wiley, William L.: *See*—
Koch, Theodore A., Robinson, and Wiley. 3,065,264.

Wilfert, Karl, to Daimler-Benz Aktiengesellschaft. Headlight. 3,032,645, 5–1–62, Cl. 240—8.1.

Wilfert, Karl, to Daimler-Benz Aktiengesellschaft. Motor vehicle handle arrangement. 3,040,832, 6–26–62, Cl. 180—90.

Wilfert, Karl, to Daimler-Benz Aktiengesellschaft. Ventilation system for motor vehicles. 3,059,561, 10–23–62, Cl. 98—2.

Wilfert, Karl, to Daimler-Benz Aktiengesellschaft. Frame for car body. 3,061,360, 10–30–62, Cl. 296—28.

Wilfert, Karl, to Daimler-Benz Aktiengesellschaft. Safety arrangement, particularly for motor vehicles. 3,068,044, 12–11–62, Cl. 296—44.

Wilfert, Karl, and E. J. H. Fiala, to Daimler-Benz Aktiengesellschaft. Torsion spring system for motor vehicles. 3,029,090, 4–10–62, Cl. 280—124.

Wilfley, A. R., and Sons, Inc.: *See*—
Wilfley, Elmer R., and Geer. 3,022,740.

Wilfley, Elmer R., and W. E. Geer, to A. R. Wilfley and Sons, Inc. Centrifugal pump case alignment mounting. 3,022,740, 2–27–62, Cl. 103—103.

Wilfong, Vernon E.: *See*—
Johnson, Philip L., and Wilfong. 3,032,067.

Wilgus, Donovan R.: *See*—
Stuart, Frank A., and Wilgus. 3,063,971.

Wilgus, Donovan R., to United States of America, Atomic Energy Commission. Poly(diphenyl ether-*p*-xylylenes) as viscosity index improving agents. 3,054,773, 9–18–62, Cl. 260—94.

Wilgus, Donovan R., to United States of America, Atomic Energy Commission. Lubricating oil compositions containing viscosity index improving agents. 3,057,801, 10–9–62, Cl. 252—59.

Wilgus, Donovan R., to United States of America, Atomic Energy Commission. Lubricating oil compositions containing poly(alkylbenzene-*p*-xylylenes) as viscosity index improving agents. 3,060,122, 10–23–62, Cl. 252—59.

Wilgus, Donovan R., to United States of America, Atomic Energy Commission. Lubricating oil compositions containing poly(diphenylalkane-p-xylylenes) as viscosity index improving agents. 3,066,101, 11–27–62, Cl. 252—59.

Wilham, Carl A.: *See*—
Otey, Felix H., Wilham, and Mehltretter. 3,046,312.

Wilharm, Georg: *See*—
Becher, Elisabeth, Bernhauer, and Wilharm. 3,043,750.

Wilhelm, Francis A., to The Bendix Corp. Mass flow sensing means. 3,044,294, 7–17–62, Cl. 73—194.

Wilhelm, Frank R., and R. H. Jordan, to American Machine & Foundry Co. Bowling ball cleaning and polishing apparatus. 3,016,553, 1–16–62, Cl. 15—21.

Wilhelm, Fred K.: *See*—
Meyer, Henry L., Wilhelm, and Gregorczik. 3,022,584.

Wilhelm, Fred R., E. Gregorczik, and H. L. Meyer, to The Cleveland Trencher Co. Hydraulic control system. 3,064,427, 11–20–62, Cl. 60—52.

Wilhelm, Fred R., E. Gregorczik, and H. L. Meyer, to The Cleveland Trencher Co. Hydraulic control system and hydraulic control valve therefor. 3,064,681, 11–20–62, Cl. 137—621.

Wilhelm, Gary, and H. Schorn. Firearm with reciprocable bolt having transverse movement. 3,044,203, 7–17–62, Cl. 42—22.

Wilhelm, John A. Magnetic belt buckle. 3,030,680, 4–24–62, Cl. 24—77.

Wilhelm, John R., to Purolator Products, Inc. Filter unit. 3,036,711, 5–29–62, Cl. 210—130.

Wilhelm, Kurt, to Telefunken G.m.b.H. Transmission system. 3,040,132, 6–19–62, Cl. 179—15.

Wilhelm, Kurt E. Temperature measuring apparatus. 3,031,888, 5–1–62, Cl. 73—351.

Wilhelm, Max: *See*—
Druey, Jean, Schmidt, Eichenberger, and Wilhelm. 3,036,070.
Druey, Jean, Schmidt, Eichenberger, and Wilhelm. 3,055,899.
Druey, Jean, Schmidt, Eichenberger, and Wilhelm. 3,055,900.

Wilhelmi, Julius B., to United-Carr Fastener Corp. Glide. 3,059,267, 10–23–62, Cl. 16—42.

Wilhelmi, Max F. Artificial fishing lure. 3,032,911, 5–8–62, Cl. 43—42.37.

Wilhelmsen, Willy: *See*—
Braaten, Amud, Wilhelmsen, and Johnsen. 3,065,731.

Wilhelmson, Donald A., to General Electric Co. Dynamoelectric machine cooling arrangement. 3,032,665, 5–1–62, Cl. 310—54.

Wilhelmsson, Gunnar, and K. Larsson, to Svenska Flaktfabriken, Aktiebolaget. Adjustable torque release coupling. 3,026,147, 3–20–62, Cl. 64—29.

Wilhelmsson, Thure A., and S. E. S. Malmborg, to Aktiebolaget Nordiska Armaturfabrikerna. Rotating oil burner. 3,023,802, 3–6–62, Cl. 158—77.

Wilk, Edmund J., and K. D. Beardsley, to General Electric Co. Magnetic core and method of making the same. 3,027,628, 4–3–62, Cl. 29—155.57.

Wilk, Stanley H., to General Electric Co. Shaft seal. 3,034,796, 5–15–62, Cl. 277—12.

Wilkaitis, Norman J.: *See*—
Butler, Arthur J., and Wilkaitis. 3,052,577.

Wilkata, John E.: *See*—
Townend, Robert V., and Wilkalis. 3,029,129.

Wilkata Folding Box Co., The: *See*—
Etlinger, Daniel H. 3,047,203.

Wilke, Günther, to Studiengesellschaft Kohle m.b.H. Process for the production of cyclododecatri-(1,5,9)-enes and other cyclic hydrocarbons. 3,052,736, 9–4–62, Cl. 260—666.

Wilke, Günther, and H. Weslau, to Studiengesellschaft Kohle m.b.H. Process for the production of nitrocyclododecane and cyclododecane oxim. 3,017,439, 1–16–62, Cl. 260—644.

Wilke, Günther, and H. Wesslau, to Studiengesellschaft Kohle m.b.H. Process for the production of Δ, Δ unsaturated lactams of w-amino-dodecanoic acids. 3,063,986, 11–13–62, Cl. 260—239.3.

Wilke, Harry: *See*—
Erbslöh, Paul-Günther, and Wilke. 3,021,004.

Wilke, Howard C., to Mid-West-Pak Corp. Container and closure therefor. 3,023,926, 3–6–62, Cl. 220—60.

Wilke, Milton E.: *See*—
Warren, Robert A., Coleman, and Wilke. 3,056,849.

Wilke, Milton E., and T. H. Loverude, to Servel, Inc. Reserve electric batteries with combined electrode and separator member. 3,061,659, 10–30–62, Cl. 136—90.

Wilkens, Carl E., and R. H. Bauman, to General Motors Corp. Brake booster unit. 3,016,881, 1–16–62, Cl. 121—41.

Wilkens, Carl E., and M. W. Keller, Jr., to General Motors Corp. Brake booster valve. 3,050,035, 8–21–62, Cl. 121—41.

Wilkenson, Erik A. Automatic compensation for film emulsion speed in a camera with light meter. 3,025,777, 3–20–62, Cl. 95—10.

Wilkerson, Alan W., to The Louis Allis Co. High energy pulse generator circuit. 3,062,969, 11–6–62, Cl. 307—88.5.

Wilkerson, Alan W., and W. J. Bradburn, Jr., to The Louis Allis Co. Control circuit. 3,068,394, 12–11–62, Cl. 323—22.

Wilkerson, Clyde M.: *See*—
McDaniel, Ruric N., and Wilkerson. 3,034,263.

Wilkerson, Jefferson R.: *See*—
Tollefson, Robert D., and Wilkerson. 3,038,122.

Wilkerson, John S., to Minneapolis-Honeywell Regulator Co. Control apparatus. 3,046,795, 7–31–62, Cl. 74—5.

Wilkerson, Kenneth R., ½ to S. Ross. Tomato coring machine. 3,036,612, 5–29–62, Cl. 146—52.

Wilkerson, Robert B.: *See*—
Alley, Robert P., and Wilkerson. 3,046,449.

Wilkerson, Robert B., to General Electric Co. Electrical switching device and method employing liquid conductor. 3,022,401, 2–20–62, Cl. 200—112.
Wilkerson, Victor O.: *See*—
Battison, Alvin H., Hix, Smith, and Wilkerson. 3,055,582.
Wilkes, Gilbert, to United States of America, Navy. Thermionic type detector for microwave signals. 3,058,028, 10–9–62, Cl. 315—39.
Wilkes, John B.: *See*—
Lind, Wilton H., and Wilkes. 3,041,368.
Wilkes, John B., to California Research Corp. Hydrogenation of aromatic nitriles. 3,069,469, 12–18–62, Cl. 260—570.9.
Wilkes, Raymond S.: *See*—
Skromme, Arnold B., and Wilkes. 3,037,780.
Wilkes, Ronald N.: *See*—
Oakes, Philip N., and Wilkes. 3,021,461.
Wilkey, John E., to Sea Gull Lubricants, Inc. Rust inhibitive soluble oil composition. 3,057,799, 10–9–62, Cl. 252—3.4.
Wilkie Co., The: *See*—
McLaughlin, John J. 3,068,983.
Wilkie, Robert C., and W. I. Walter, to Ludlow Corp. Textile strand treating apparatus and method. 3,060,058, 10–23–62, Cl. 117—111.
Wilkie, Vernon J. Ladder bracket construction. 3,026,963, 3–27–62, Cl. 182—93.
Wilkin, Ellsworth D., to McCulloch Motor Corp. Power lawn mower and steering means therefor. 3,040,504, 6–26–62, Cl. 56—26.
Wilkin, Lester A., and H. W. Marsh, to Union Tank Car Co. Variable operating pressure gas holder. 3,034,880, 5–15–62, Cl. 48—176.
Wilkins, Dennis M.: *See*—
Elroy, Herbert R., Wilkins, and Johnson. 3,016,566.
Wilkins, Frank A.: *See*—
Brame, Arthur A., and Wilkins. 3,043,536.
Wilkins, John M. Thread cutting device with selectively positionable die holder. 3,061,848, 11–6–62, Cl. 10—115.
Wilkins, Lowell A. Machine for striping film. 3,050,758, 8–28–62, Cl. 15—100.
Wilkins, Lowell A., and H. S. Kane, deceased; F. Kane, administratrix. Camera-projector apparatus. 3,029,684, 4–17–62, Cl. 88—16.2.
Wilkins, Paul E., to Phillips Petroleum Co. Method of joining polyethylene pipe. 3,035,958, 5–22–62, Cl. 156—294.
Wilkins, Paul E., to Phillips Petroleum Co. Method for joining plastic articles. 3,049,465, 8–14–62, Cl. 156—272.
Wilkins, Richard A., to Revere Copper and Brass Inc. Method of making fluid conducting elements. 3,036,369, 5–29–62, Cl. 29—157.3.
Wilkins, Richard A., to Revere Copper and Brass Inc. Methods of and apparatus and materials for making strip material. 3,046,652, 7–31–62, Cl. 29—528.
Wilkins, Richard A., to Revere Copper and Brass Inc. Manufacture of internally slitted strips. 3,047,943, 8–7–62, Cl. 29—528.
Wilkins, Richard A., to Revere Copper and Brass Inc. Methods of making internally slitted strip material. 3,050,848, 8–28–62, Cl. 29—528.
Wilkins, Robert E., to Minneapolis-Honeywell Regulator Co. Paper feed mechanism. 3,049,276, 8–14–62, Cl. 226—74.
Wilkins, Sydney: *See*—
Attwood, William H., Sewell, and Wilkins. 3,031,153.
Wilkins, Walter J. Vehicle steering mechanism. 3,063,244, 11–13–62, Cl. 60—52.
Wilkins, William B., to Reinforced Plastic Container Corp. Crate and partition structure. 3,036,726, 5–29–62, Cl. 217—22.
Wilkinson, Alvin H., to Auto-Crane Co. Apparatus for stabilizing equipment. 3,043,549, 7–10–62, Cl. 248—351.
Wilkinson, Alvin H., and B. D. Pendergraft, to Cabot Corp. Mast raising and extending mechanism. 3,032,147, 5–1–62, Cl. 189—1.
Wilkinson, Bruce W., C. T. Pumpelly, and J. L. Russell, to The Dow Chemical Co. Method of adding hydrogen bromide to vinylaryl compounds. 3,026,257, 3–20–62, Cl. 204—154.
Wilkinson, Charles C. and C. N. Air eliminator for nursing bottles. 3,059,797, 10–23–62, Cl. 215—11.
Wilkinson, Charles N.: *See*—
Wilkinson, Charles C. and C. N. 3,059,797.
Wilkinson, Geoffrey: *See*—
Smith, Homer P., and Wilkinson. 3,025,286.
Wilkinson, Geoffrey, to Ethyl Corp. Organometallic compounds. 3,064,021, 11–13–62, Cl. 260—429.
Wilkinson, Geoffrey, to Ethyl Corp. Cycloheptatrienyl cycloheptatriene metal compounds and process of making the same. 3,064,024, 11–13–62, Cl. 260—429.
Wilkinson, Geoffrey, and R. Burton, to Ethyl Corp. Organometallic compounds. 3,064,023, 11–13–62, Cl. 260—429.
Wilkinson, Harry. Dental aligner. 3,024,534, 3–13–62, Cl. 32—20.
Wilkinson Harry. Dental articulator. 3,067,515, 12–11–62, Cl. 32—32.
Wilkinson, John J.: *See*—
Elliott, George D., and Wilkinson. 3,048,297.
Wilkinson, John R., to T. J. and F. M. Pierson. Disk brake. 3,024,873, 3–13–62, Cl. 188—73.
Wilkinson, Kenneth J. R., and J. J. Matthews, to The British Thomson-Houston Co. Ltd. Dynamo-electric machines. 3,025,443, 3–13–62, Cl. 318—138.
Wilkinson, Leonard A., to American Optical Co. Coarse and fine adjustment mechanism for microscopes. 3,019,705, 2–6–62, Cl. 88—39.
Wilkinson, Leonard A., to American Optical Co. Adjustable support arm. 3,041,034, 6–26–62, Cl. 248—284.
Wilkinson, Lionel W. G.: *See*—
Mulvey, John J., and Wilkinson. 3,051,412.
Wilkinson, Michael A., to Stakmore Co., Inc. Folding chair. 3,042,447, 7–3–62, Cl. 297—58.
Wilkinson, Raymond G., and T. L. Fields, to American Cyanamid Co. 2-(substituted-benzyl)-1,3-propanedisulfonates. 3,068,266, 12–11–62, Cl. 260—456.
Wilkinson, Raymond G., and T. L. Fields, to American Cyanamid Co. 2-(substituted-benzyl)-1,3-propanediols. 3,068,-296, 12–11–62, Cl. 260—613.
Wilkinson, Sam L.: *See*—
Lee, Burton D., and Wilkinson. 3,040,294.
Wilkinson, Samuel, to Burroughs Wellcome & Co. (U.S.A.) Inc. Parenteral administration of methanesulphonate of polymyxin A, B or E. 3,044,934, 7–17–62, Cl. 167—65.
Wilkinson, Samuel C. W., to Crane Packing Ltd. Rotary sealing device. 3,031,197, 4–24–62, Cl. 277—16.
Wilkinson, Samuel C. W., to Crane Packing Ltd. Cooling mechanical seals. 3,068,014, 12–11–62, Cl. 277—68.
Wilkinson Sword Ltd.: *See*—
Goligthly, Francis L. 3,047,949.
Griffiths, Rupert. 3,045,326.
Griffiths, Rupert, and Radford. 3,057,063.
Wilkinson, Thomas B.: *See*—
Melton, James O., and Wilkinson. 3,031,202.
Melton, James O., and Wilkinson. 3,055,688.
Wilkinson, Wilfred H.: *See*—
Lombard, Adrian A., and Wilkinson. 3,065,818.
Morley, Frederick W. W., Kent, Hunter, and Wilkinson. 3,051,437.
Wilkinson, William K.: *See*—
Millford, George N., and Wilkinson. 3,065,211.
Milford, George N., and Wilkinson. 3,065,212.
Wilkinson, William K., to E. I. du Pont de Nemours and Co. Fireproof acrylonitrile copolymers. 3,027,222, 3–27–62, Cl. 8—115.5.
Wilkson, Jim P. Casket latching mechanism. 3,054,631, 9–18–62, Cl. 292—66.
Wilks, Louis P.: *See*—
Tapas, John C., and Wilks. 3,062,782.
Will, Alexander A.: *See*—
Armstrong, Warren D. 3,062,320.
Will, Christian E., Jr., to Lear, Inc. Gyroscopic device and method of assembly. 3,043,147, 7–10–62, Cl. 74—5.
Will, D. Forbes: *See*—
Armstrong, Warren D. 3,062,320.
Will, Günther: *See*—
Gotz, Franz, and Will, G. and H. 3,027,336.
Will, Helmuth: *See*—
Gotz, Franz, and Will, G. and H. 3,027,366.
Will, Roland: *See*—
Mashek, Charles A., and Will. 3,055,094.
Will, Theodore, to Fund-Del Inc. Safety coverlock for book match packages and the like. 3,033,361, 5–8–62, Cl. 206—56.
Willard, Allen A., Sr.: *See*—
Todd, Doris E., and Willard. 3,031,728.
Willard, David S. Command circuit. 3,045,149, 7–17–62, Cl. 317—147.
Willard, Dennis D., to International Business Machines Corp. Resilient magnetic drum. 3,036,304, 5–22–62, Cl. 346—74.
Willard, Dennis D., to International Business Machines Corp. High speed electronic memory. 3,042,823, 7–3–62, Cl. 313—6.
Willard, Dennis D., to International Business Machines Corp. Automatic gain control. 3,050,692, 8–21–62, Cl. 330—133.
Willard, Frank G., and E. P. Ross, to Westinghouse Electric Corp. Workpiece position control apparatus. 3,017,984, 1–23–62, Cl. 198—29.
Willard, Joe R.: *See*—
Dorschner, Kenneth P., and Willard. 3,034,881.
Willard, Joe R., and K. P. Dorschner, to FMC Corp. Herbicidal method employing N-(3-chloro-4-methylphenyl)-2-methyl-pentanamide. 3,020,142, 2–6–62, Cl. 71—2.3.
Willard, John B., to Owens-Illinois Glass Co. Method and apparatus for producing plastic bottles. 3,032,809, 5–8–62, Cl. 18—5.
Willard, Luther L.: *See*—
Becker, August. 3,023,775.
Willard, Paul E., to FMC Corp. Manufacture of prepolymers. 3,030,341, 4–17–62, Cl. 260—78.4.
Willard, Paul E., to FMC Corp. Decorative laminates. 3,049,458, 8–14–62, Cl. 154—47.
Willard, Robert P., to Kidder Press Co., Inc. Collapsible shafts. 3,048,345, 8–7–62, Cl. 242—72.
Willard, Sylvester J. Propeller guards. 3,035,538, 5–22–62, Cl. 115—42.
Willatts, William H. Building components and structures. 3,067,544, 12–11–62, Cl. 50—55.
Willcockson, George W.: *See*—
Brotherton, Robert J., Willcockson, and Steinberg. 3,045,038.
Hunter, Don L., Kitasaki, and Willcockson. 3,028,411.
Willcockson, George W., to United States Borax & Chemical Corp. Organoalkoxyboranes. 3,027,396, 3–27–62, Cl. 260—462.

Willcockson, George W., to United States Borax & Chemical Corp. Method for inhibiting bacterial activity in petroleum. 3,035,887, 5–22–62, Cl. 21—60.5.

Willcockson, George W., to United States Borax & Chemical Corp. Acetylenic boron compounds and method for making the same. 3,036,111, 5–22–62, Cl. 260—462.

Willcockson, George W., to United States Borax & Chemical Corp. Method for preparing organoboron compounds. 3,060,218, 10–23–62, Cl. 260—462.

Willcockson, George W., and J. K. Sandie, to United States Borax & Chemical Corp. Preparation of dialkoxyvinylboranes. 3,024,265, 3–6–62, Cl. 260—462.

Willcockson, George W., and J. K. Sandie, to United States Borax & Chemical Corp. Organoboron compounds and methods of making same. 3,045,039, 7–17–62, Cl. 260—462.

Willcockson, George W., D. L. Hunter, and I. S. Bengelsdorf, to United States Borax & Chemical Corp. Vinylboron compounds and method for preparing same. 3,069,454, 12–18–62, Cl. 260—462.

Willcox, Dale F.: *See*—
Furnas, William C., and Willcox. 3,035,137.
Thornberry, James M., and Willcox. 3,033,999.

Willcox & Gibbs Sewing Machine Co.: *See*—
Russell, Harvey W. and R. 3,059,602.
Russell, Harvey W. and R. H. 3,059,600.
Tamburro, Francis P. 3,024,748.

Wille, Herbert S.: *See*—
Helmsman, William G., Roehm, and Wille. 3,039,764.
Pfeiffer, Lewis L., Muessel, and Wille. 3,037,591.

Willeke, Bruno, to Koppers Co., Inc. Longitudinal anchoring for coke oven batteries. 3,054,730, 9–18–62, Cl. 202—268.

Willems, Ebertus: *See*—
Van Overbeek, Adrianus J. W. M., Willems, and Van Lottum. 3,066,258.

Willems, Harold F. Sun bathing apparatus. 3,042,046, 7–3–62, Cl. 128—372.

Willems, Peter. Kneading and mixing apparatus. 3,054,565, 9–18–62, Cl. 241—46.

Willems, Peter. Method and apparatus for subjecting material to cyclic stresses at high frequency. 3,062,457, 11–6–62, Cl. 241—1.

Willenborg, Walter J., to Jabez Burns & Sons, Inc. Flammable vapor detector. 3,061,826, 10–30–62, Cl. 340—237.

Willersinn, Carl-Heinz: *See*—
Reicheneder, Franz, Dury, Suter, and Willersinn. 3,027,401.

Willey, Frank G., and T. A. Westover, to Servo Corp. of America. Aircraft velocity-altitude ratio meter. 3,018,555, 1–30–62, Cl. 33—46.5.

Willey, Leroy D., Jr., to E. I. du Pont de Nemours and Co. Improved polymer finisher apparatus. 3,046,099, 7–24–62, Cl. 23—285.

Wilhite, Charles C., to Bell Telephone Laboratories, Inc. Limiter systems. 3,041,705, 7–17–62, Cl. 235—189.

William Prym-Werke K.G.: *See*—
Berberich, Erich, Gilliam, and Frowein. 3,022,803.

Williams, Alan E. Stencil. 3,053,174, 9–11–62, Cl. 101—127.

Williams, Albert J., Jr., to Leeds and Northrup Co. Electrical converter. 3,017,561, 1–16–62, Cl. 321—45.

Williams, Albert J., Jr., to Leeds and Northrup Co. Electrical converter. 3,050,675, 8–21–62, Cl. 321—45.

Williams, Alexander W.: *See*—
Mook, Donald E., Williams, Close, and Hankinson. 3,035,922.

Williams, Alfred L. W., and D. P. Eastman, to Clevite Corp. Portable turbo generator. 3,039,007, 6–12–62, Cl. 290—52.

Williams, Alfred L. W., and C. K. Gravley, to Clevite Corp. Method of producing cellular ceramic electromechanical transducers, transducer materials and elements. 3,052,949, 9–4–62, Cl. 25—35.

Williams, Arlington R. Pole tip assembly for a fishing pole. 3,034,248, 5–15–62, Cl. 43—24.

Williams, Arthur D. Portable grill. 3,025,784, 3–20–62, Cl. 99—446.

Williams, Arthur H., and K. E. Fenrich, to Chain Belt Co. Method of making a bearing. 3,068,552, 12–18–62, Cl. 29—149.5.

Williams, Arthur J., to The Commercial Shearing & Stamping Co. Relief valves. 3,054,420, 9–18–62, Cl. 137—469.

Williams, Arthur T.: *See*—
Tidland, Charles R. 3,032,288.

Williams, Arthur T., and C. R. Tidland. Expandable shaft. 3,029,037, 4–10–62, Cl. 242—72.

Williams, Barney W., and J. H. Murphey, to Phillips Petroleum Co. Rocket charge suspension. 3,031,841, 5–1–62, Cl. 60—35.6.

Williams, Benjamin. Drawer construction. 3,029,357, 4–10–62, Cl. 312—263.

Williams, Beverly E., to Hodges Research and Development Co. Processes for improving the tenderness and flavor of mutton. 3,016,301, 1–9–62, Cl. 99—107.

Williams, Beverly E., to Hodges Research and Development Co. Processes for tendering meat. 3,026,206, 3–20–62, Cl. 99—107.

Williams, Beverly E., to Hodges Research and Development Co. Process for skinning squid and for the preparation of squid fillets. 3,034,906, 5–15–62, Cl. 99—195.

Williams, Beverly E. Process of and apparatus for making containers. 3,055,152, 9–25–62, Cl. 53—29.

Williams, Beverly E., to Hodges Research and Development Co. Methods for aging and flavoring meat. 3,056,679, 10–2–62, Cl. 99—107.

Williams, Beverly E., to Hodges Research and Development Co. Processes for the tendering of meat. 3,056,680, 10–2–62, Cl. 99—107.

Williams, Beverly E., to Hodges Research and Development Co. Dip for meat wraps. 3,070,448, 12–25–62, Cl. 99—222.

Williams, Billy J.: *See*—
Donald M., Lobo, and Williams. 3,053,905.

Williams, Byron L., Jr.: *See*—
Culbertson, Harry M., and Williams. 3,056,755.

Williams, C. J.: *See*—
Learmont, Robert K. 3,057,284.

Williams, C. K., & Co.: *See*—
Ayers, Joseph W., and Stephens. 3,015,627.
Ayers, Joseph W., and Stephens. 3,015,628.

Williams, Carl B., Jr.: *See*—
Boicey, James H., and Williams. 3,054,344.

Williams, Cecil E.: *See*—
Anderson, Neal S., Bendat, and Williams. 3,043,515.

Williams, Cecil E., to Armour Research Foundation of Illinois Institute of Technology. Electromagnetic transducer head. 3,041,413, 6–26–62, Cl. 179—100.2.

Williams, Cecil E., to Thompson Ramo Wooldridge Inc. Method and apparatus for mechanical alignment. 3,052,974, 9–11–62, Cl. 29—407.

Williams, Cecil E., to Thompson Ramo Wooldridge Inc. Display apparatus. 3,060,426, 10–23–62, Cl. 343—112.

Williams, Charles M.: *See*—
Caferro, Edward M., Howell, Justus, and Williams. 3,041,595.

Williams, Charles O.: *See*—
Andrew, Eugene A., and Williams. 3,037,417.

Williams, Charles O., to Olin Mathieson Chemical Corp. Metal forming. 3,036,374, 5–29–62, Cl. 29—421.

Williams, Charles O., to Olin Mathieson Chemical Corp. Signal device. 3,062,176, 11–6–62, Cl. 116—104.

Williams, Charles O., V. W. Drexelius, and R. D. Smith, to Olin Mathieson Chemical Corp. Primer. 3,062,146, 11–6–62, Cl. 102—46.

Williams, Charles R.: *See*—
Morrison, Guy E., and Williams. 3,045,795.
Szymczak, Eugene B., and Williams. 3,050,682.

Williams, Chester I.: *See*—
Morse, Glenn B. 3,039,800.

Williams, Claude D.: *See*—
Cox, David E., and Williams. 3,024,053.

Williams, Claude J.: *See*—
Frost, John C. M., and Williams. 3,020,003.
Frost, John C. M., and Williams. 3,051,415.
Frost, John C. M., and Williams. 3,051,417.

Williams, Clifford C. Well system with siphon. 3,039,532, 6–19–62, Cl. 166—75.

Williams, Cody D.: *See*—
Mitchell, Henry D., Jr., and Williams. 3,027,921.
Mitchell, Henry D., Jr., and Williams. 3,037,268.

Williams, Craig T., and C. Lippincott, to Bradley & Williams, Inc. Line tensioning machine. 3,054,572, 9–18–62, Cl. 242—86.7.

Williams, Dale D., to United States of America, Navy. Method and means of detecting ammonia and amine vapor. 3,025,142, 3–13–62, Cl. 23—232.

Williams, Daniel S. Roller skate. 3,037,784, 6–5–62, Cl. 280—11.26.

Williams, Daniel S. Shoe tree with adjustable heel member. 3,068,502, 12–18–62, Cl. 12—116.6.

Williams, David: *See*—
Brunt, Kenneth A., and Williams. 3,044,962.

Williams, David B.: *See*—
Williams, Edward B., Jr. 3,058,535.

Williams, David C., to United Carbon Co., Inc. Carbon black process and apparatus. 3,057,688, 10–9–62, Cl. 23—209.4.

Williams, David C., to United Carbon Co., Inc. (Maryland). Process and apparatus for producing carbon black. 3,060,003, 10–23–62, Cl. 23—209.4.

Williams, David G. and J. W., to Ace Electronics Associates, Inc. Non-linear potentiometer. 3,046,510, 7–24–62, Cl. 338—89.

Williams, David P., Sr., to J. E. Morris. Burner-muffler. 3,042,499, 7–3–62, Cl. 23—277.

Williams, Dean E. Garbage can holder with lid operator. 3,028,015, 4–3–62, Cl. 211—83.

Williams, Dean N.: *See*—
Berger, Lewis W., Jaffee, and Williams. 3,038,798.
Grube, Kenneth R., and Williams. 3,043,682.

Williams, Doris: *See*—
Williams, Edwin W. 3,034,966.

Williams, Earl L., to Simmons Co. Restraining wristlet. 3,027,895, 4–3–62, Cl. 128—133.

Williams, Edward: *See*—
Peyton, Stanley V., and Williams. 3,015,275.

Williams, Edward B., Jr., ⅛ to E. B. Williams, III, ⅛ to J. W. Williams, and ⅛ to D. B. Williams. Rotary drill bit. 3,058,535, 10–16–62, Cl. 175—330.

Williams, Edward B., III: *See*—
Williams, Edward B., Jr. 3,058,535.

Williams, Edward C. Device for feeding granular material. 3,050,215, 8–21–62, Cl. 222—161.

Williams, Edward K., to Rotax Ltd. Three phase protective relay system responsive to amplitude of ripple voltage. 3,023,345, 2–27–62, Cl. 317—52.

Williams, Edwin W., ⅛ to D. Williams. Nail hardening composition and method of making same. 3,034,966, 5–15–62, Cl. 167—85.

Williams Electronics Mfg. Corp.: *See*—
Genser, Theodore, Kraemer, and Levin. 3,055,545.
Williams, Elmer T., Jr.: *See*—
Smith, Kenneth A., Jones, and Williams. 3,063,595.
Williams, Forrest S.: *See*—
Janowsky, Edward J., Beck, and Williams. 3,034,340.
Williams, Forrest V., to Monsanto Chemical Co. Production of pure phosphorus. 3,039,854, 6–19–62, Cl. 23—223.
Williams, Forrest V., to Monsanto Chemical Co. Production of pure arsenic and phosphorus. 3,047,366, 7–31–62, Cl. 23—223.
Williams, Forrest V., to Monsanto Chemical Co. Production of pure phosphorus. 3,053,637, 9–11–62, Cl. 23—223.
Williams, Forrest V., to Monsanto Chemical Co. Production of pure phosphorus. 3,056,660, 10–2–62, Cl. 23—223.
Williams, Forrest V., R. A. Ruehrwein, and D. E. Hill, to Monsanto Chemical Co. Diode. 3,022,452, 2–20–62, Cl. 317—236.
Williams, Forrest V., R. A. Ruehrwein, and D. E. Hill, to Monsanto Chemical Co. Transistor. 3,054,936, 9–18–62, Cl. 317—235.
Williams, Frank N., to Federal-Huber Co. Mixing faucets. 3,023,769, 3–6–62, Cl. 137—329.03.
Williams, Fred G., Jr., to Beckman Instruments, Inc. Centrifuge apparatus. 3,050,239, 8–21–62, Cl. 233—24.
Williams, Frederic C., to National Research Development Corp. Polyphase transformer arrangements and induction machines employing polyphase transformer arrangements. 3,046,471, 7–24–62, Cl. 323—52.
Williams, Frederic C., to National Research Development Corp. Electrical control arrangements for indication generators. 3,054,941, 9–18–62, Cl. 322—47.
Williams, Frederic C., E. R. Laithwaite, and J. F. Eastham, to National Research Development Corp. Phase transformer arrangements and induction machines employing phase transformer arrangements. 3,040,226, 6–19–62, Cl. 318—205.
Williams, Frederick P., to Sanitary Plastics, Inc. Protective devices for septic tanks. 3,025,962, 3–20–62, Cl. 210—86.
Williams, Geoffrey E., and W. T. Dow, to Lever Bros. Co. Slicing and interleaving machines. 3,026,657, 3–27–62, Cl. 53—23.
Williams, George A. H.: *See*—
Oxley, Peter, Woolfe, Bristow, Fraser, Williams, and Wilmhurst. 3,032,555.
Williams, George L. Sanding tool. 3,049,840, 8–21–62, Cl. 51—147.
Williams, Gerald I., and R. E. Wesslund, to Transistor Electronics Corp. Low voltage neon indicator light. 3,041,499, 6–26–62, Cl. 315—135.
Williams, Glynn H.: *See*—
Zillman, Jack H., Wagoner, Williams, and Sharp. 3,027,849.
Williams, Glynn H., to U.S. Industries, Inc. Check valve. 3,024,804, 3–13–62, Cl. 137—512.15.
Williams, Glynn H., to Dynaquip. Combined oil tank and cylinder pedestal for hydraulic pumping unit. 3,038,310, 6–12–62, Cl. 60—52.
Williams, Harold E., to Packard-Bell Electronics Corp. Cable connector clamp. 3,059,206, 10–16–62, Cl. 339—45.
Williams, Harold W., to Owens-Illinois Glass Co. Nonremovable closure. 3,025,658, 3–20–62, Cl. 215—41.
Williams, Harold W., to Owens-Illinois Glass Co. Closures for containers. 3,025,989, 3–20–62, Cl. 215—42.
Williams, Harrison J.: *See*—
Harbers, Henry C., and Williams. 3,058,740.
Williams, Harrison L., to Preformed Line Products Co. Line tie. 3,042,745, 7–3–62, Cl. 174—173.
Williams, Harry D.: *See*—
Smith, George W., and Williams. 3,053,907.
Williams, Harry D., to Radio Corp. of America. Wire coating apparatus. 3,034,477, 5–15–62, Cl. 118—223.
Williams, Helene K. Self-adjusting posture improvement attachment for brassieres. 3,027,898, 4–3–62, Cl. 128—510.
Williams, Howard O., to Edward E. Johnson Inc. Well screen points. 3,056,459, 10–2–62, Cl. 175—314.
Williams, Howell J.: *See*—
Sherwood, Richard C., and Williams. 3,059,538.
Williams, Ira, to J. M. Huber Corp. Process for carbon black production. 3,046,095, 7–24–62, Cl. 23—209.4.
Williams, Ira E., to United States of America, Navy. Transfer missile handling cart. 3,067,884, 12–11–62, Cl. 214—1.
Williams, Irving K.: *See*—
Forbath, Frank P., and Williams. 3,064,249.
Williams, Jack A., and A. G. Hirsch, to Standard Oil Co. Imidazoline stabilizers. 3,020,199, 2–6–62, Cl. 167—33.
Williams, Jack L. R.: *See*—
Laakso, Thomas M., and Williams. 3,062,785.
Laakso, Thomas M., and Williams. 3,068,215.
Williams, Jack L. R., and B. C. Cossar, to Eastman Kodak Co. Polythiaalkylenediols as sensitizers for photographic silver halide emulsions. 3,021,215, 2–13–62, Cl. 96—100.
Williams, James T.: *See*—
Cobb, Clifton A., and Williams. 3,065,618.
Williams, James T. Drill bits. 3,040,825, 6–26–62, Cl. 175—412.
Williams, Jean R.: *See*—
Franklin, Truman L., and Williams. 3,018,553.
Williams, John B.: *See*—
Ehrat, Alfred J., and Williams. 3,024,591.
Williams, John D., and E. L. Pineau, to Phillips-Van Heusen Corp. Multi-ply fabric having a blocked appearance. 3,053,287, 9–11–62, Cl. 139—385.5.
Williams, John G.: *See*—
Atwood, Hubert C., and Williams. 3,043,229.
Gledhill, Ronald J., and Williams. 3,034,892.
Williams, John G., to Worthington Corp. Turbo pump. 3,033,120, 5–8–62, Cl. 103—87.
Williams, John H., to Oak Mfg. Co. Electric switch. 3,020,-375, 2–6–62, Cl. 200—166.
Williams, John K., to E. I. du Pont de Nemours and Co. 4-amido-1,1,2-tricyano-1,3-butadienes and their preparation. 3,040,056, 6–19–62, Cl. 260—326.5.
Williams, John K., to E. I. du Pont de Nemours and Co. 4-substituted -1,1,2-tricyano-1,3-butadiene and process of preparation. 3,040,084, 6–19–62, Cl. 260—465.
Williams, John L. Gate valve with back pressure means. 3,033,516, 5–8–62, Cl. 251—187.
Williams, John L. Fabricated bonnet valve and method of making the same. 3,052,963, 9–11–62, Cl. 29—157.1.
Williams, John M. Telescoping knife and fork implement. 3,066,200, 10–2–62, Cl. 30—148.
Williams, Joseph R.: *See*—
Huffman, J Lauton, and Williams. 3,065,380.
Williams, Joseph W.: *See*—
Williams, Edward B., Jr. 3,058,535.
Williams, Joyce W.: *See*—
Williams, David G. and J. W. 3,046,510.
Williams, La Vergne E.: *See*—
Hoeppner, Conrad H., and Williams. 3,038,345.
Williams, La Vergne H., to The Gunver Mfg. Co. Fastener for wires. 3,017,205, 1–16–62, Cl. 287—49.
Williams, Lawrence S., to Toledo Scale Corp. Lever connection. 3,035,649, 5–22–62, Cl. 177—178.
Williams, Lawrence S., to Toledo Scale Corp. Chart reading mechanism. 3,049,287, 8–14–62, Cl. 235—1.
Williams, Lawrence S., to Toledo Scale Corp. Chart reading mechanism. 3,052,404, 9–4–62, Cl. 235—1.
Williams, Lawrence S., to Toledo Scale Corp. Chart reading mechanism. 3,066,860, 12–4–62, Cl. 235—1.
Williams, Lee S. Process for making stock salt blocks. 3,046,-024, 11–27–62, Cl. 99—2.
Williams, Leonard C.: *See*—
Gilliland, Ralph G., Patriarca, Slaughter, and Williams. 3,038,249.
Williams, Leroy E.: *See*—
Sherman, Guy S., and Williams. 3,066,644.
Williams, Leslie A., to Eastman Kodak Co. Photographic diffusion transfer process. 3,068,098, 12–11–62, Cl. 96—29.
Williams, Lloyd H. Method of making a sealed joint masonry block wall structure. 3,035,375, 5–22–62, Cl. 50—533.
Williams, Lyle N.: *See*—
Barnhizer, Harold K., and Williams. 3,020,394.
Williams, Lyle N., to General Motors Corp. Heated mirror. 3,052,787, 9–4–62, Cl. 219—19.
Williams, Lynn A., to Anocut Engineering Co. Electrolytic applicator. 3,017,340, 1–16–62, Cl. 204—217.
Williams, Lynn A., to Anocut Engineering Co. Electrode for electrolytic shaping. 3,019,178, 1–30–62, Cl. 204—284.
Williams, Lynn A., to Anocut Engineering Co. Electrode for electrolytic hole sinking. 3,041,265, 6–26–62, Cl. 204—284.
Williams, Lynn A., to Anocut Engineering Co. Electrolyte grinding apparatus. 3,043,766, 7–10–62, Cl. 204—217.
Williams, Lynn A., to Anocut Engineering Co. Electrolytic shaping. 3,058,895, 10–16–62, Cl. 204—143.
Williams, Marshall H.: *See*—
O'Neal, Johnnie W., and Williams. 3,064,587.
Williams, Michael, to The General Electric Co. Ltd. Bistable magnetic devices. 3,058,099, 10–9–62, Cl. 340—174.
Williams, Milton S., Jr.: *See*—
Hurko, Bohdan, and Williams. 3,040,730.
Williams, Milton S., Jr., and G. A. Scott, to General Electric Co. Electric range with mechanical interlock system. 3,022,469, 2–20–62, Cl. 219—20.
Williams, Murray E., to Dexter Industries, Inc. Simplified latch assembly. 3,020,073, 2–6–62, Cl. 292—169.
Williams, Murray E., to Dexter Industries Inc. Privacy lock. 3,025,096, 3–13–62, Cl. 292—359.
Williams, Nathan T. Toe actuated safety device for automatic doors. 3,031,5446, 4–24–62, Cl. 200—61.62.
Williams, Neal T.: *See*—
Basiago, Raymond, and Williams. 3,046,458.
Williams, Norman C., to Power Brake Equipment Co. Adjustable differential air pressure relay. 3,018,136, 1–23–62, Cl. 303—6.
Williams, Norman C., to Power Brake Equipment Co. Method and means for gear shifting. 3,031,050, 4–24–62, Cl. 192—3.
Williams, Norman C., to Power Brake Equipment Co. Speed control system for ultra high speed air turbine driven dental drill. 3,039,193, 6–19–62, Cl. 32—28.
Williams, Olin P., to Royal McBee Corp. Line spacing mechanism for typewriters and like business machines. 3,031,057, 4–24–62, Cl. 197—114.
Williams, Paul B. Storage cartons for tabulating cards. 3,058,583, 10–16–62, Cl. 206—62.
Williams, Paul E., to A. F. Krause, Jr. Helicopter. 3,065,-933, 11–27–62, Cl. 244—17.11.
Williams, Paul H.: *See*—
Payne, George B., Sullivan, Van Ess, and Williams. 3,062,890.
Schwarzer, Carl G., and Williams. 3,017,387.
Schwarzer, Carl G., and Williams. 3,062,840.
Sullivan, William J., and Williams. 3,067,175.

Williams, Ralph E., and W. P. Miller, to American Playground Device Co. Swing device. 3,039,819, 6–19–62, Cl. 297—277.

Williams, Ralph J.: *See*—
Jackson, Jonas A., and Williams. 3,037,482.

Williams, Ray C., and C. J. W. Clasen, to Standard Car Truck Co. Self-aligning friction shoe for railway car stabilized trucks. 3,024,743, 3–13–62, Cl. 105—197.

Williams, Ray S., to Hagan Chemicals & Controls, Inc. Adjustable hermetically sealed damping devices. 3,037,585, 6–5–62, Cl. 188—94.

Williams, Raymond F., to Gardner-Denver Co. Compressor control apparatus. 3,062,433, 11–6–62, Cl. 230—24.

Williams Research Corp.: *See*—
Jones, John F., Williams, and Benson. 3,052,305.
Williams, Sam B., and Benson. 3,023,577.
Williams, Sam B., and Benson. 3,039,265.

Williams, Richard A.: *See*—
Tiley, John W., and Williams. 3,067,114.

Williams, Richard E., to Melpar, Inc. Mixed-base notation for computing machines. 3,019,975, 2–6–62, Cl. 235—155.

Williams, Richard E. Percussion circuit. 3,022,695, 2–27–62, Cl. 84—1.18.

Williams, Richard E., and H. C. Glass, to Scope, Inc. Data processing and work recognition system for speech-to-digital converter. 3,037,076, 5–29–62, Cl. 178—43.5.

Williams, Richard E., and H. C. Glass, to Scope, Inc. Speech-to-digital converter. 3,037,077, 5–29–62, Cl. 178—43.5.

Williams, Richard H.: *See*—
Elliott, Irwin. 3,065,079.

Williams, Richard J.: *See*—
Heyl, Russell G., Jr., and Williams. 3,036,827.

Williams, Richard J., to Eaton Mfg. Co. Axle housing. 3,015,-238, 1–2–62, Cl. 74—607.

Williams, Richard M.: *See*—
Stover, Edward R., and Williams. 3,040,580.

Williams, Richard W. Water closet flushing apparatus. 3,041,630, 7–3–62, Cl. 4—37.

Williams, Robert E.: *See*—
Good, Carl D., and Williams. 3,030,289.
Graham, John W., Muench, and Williams. 3,020,964.

Williams, Robert E. Stencil marking device. 3,051,129, 8–28–62, Cl. 120—8.

Williams, Robert E., to The Scholl Mfg. Co., Inc. Method of making a foot cushioning device. 3,063,076, 11–13–62, Cl. 12—146.

Williams, Robert E., and H. H. Spain, to Jersey Production Research Co. Sand consolidation method. 3,047,067, 7–31–62, Cl. 166—33.

Williams, Robert K., to International Basic Economy Corporation. Cushioning structure for fluid power cylinders. 3,067,726, 12–11–62, Cl. 121—38.

Williams, Robert K., and J. E. Blair. Telescopic tow bar for boat trailers. 3,032,353, 5–1–62, Cl. 280—414.

Williams, Roger B., Jr.: *See*—
Bell, Robert E., and Williams. 3,039,686.
Bell, Robert E., and Williams. 3,042,128.
Bell, Robert E., and Williams. 3,055,585.

Williams, Roger B., Jr., to Toledo Scale Corp. Remote setting digital weight cutoff system. 3,035,648, 5–22–62, Cl. 177—25.

Williams, Roger B., Jr., to Toledo Scale Corp. Read out equipment for electronic counters. 3,052,409, 9–4–62, Cl. 235—92.

Williams, Roger F. Filter. 3,050,189, 8–21–62, Cl. 210—252.

Williams, Rollie B.: *See*—
Saunders, Rhoderick K., and Williams. 3,048,772.

Williams, Rollie B., to Esso Research and Engineering Co. Nuclear magnetic resonance spectrometer. 3,034,040, 5–8–62, Cl. 324—.5.

Williams, Rollie B., to Esso Research and Engineering Co. Spectrometer. 3,039,047, 6–12–62, Cl. 324—.5.

Williams, Rollo G., to Century Lighting, Inc. Downlight and device for varying the spectral quality thereof. 3,037,-110, 5–29–62, Cl. 240—78.

Williams, Ross R., to Colgate-Palmolive Co. Package for treating agents and disposable applicator forming a part thereof. 3,057,467, 10–9–62, Cl. 206—46.

Williams, Russell F., P. R. Morgan, and M. Glenday. Fuel injector. 3,015,325, 1–2–62, Cl. 123—139.

Williams, Russell F., and P. R. Morgan. Starting and stopping mechanism for internal-combustion engines. 3,018,618, 1–30–62, Cl. 60—16.

Williams, Russell J., to Bemis Bro. Bag Co. Bag manufacture. 3,051,103, 8–28–62, Cl. 112—10.

Williams, Sam B.: *See*—
Jones, John F., Williams, and Benson. 3,052,305.

Williams, Sam B., and J. J. Benson, to Williams Research Corp. Gas turbine with heat exchanger. 3,023,577, 3–6–62, Cl. 60—39.51.

Williams, Sam B., and J. J. Benson, to Williams Research Corp. Heat exchanger construction for gas turbines. 3,039,265, 6–19–62, Cl. 60—39.51.

Williams, Samuel E. Tool for removing bushings. 3,052,973, 9–11–62, Cl. 29—265.

Williams, Samuel G., to The New York Air Brake Co. Variable displacement pump. 3,016,018, 1–9–62, Cl. 103—37.

Williams, Selden T., to Scovill Mfg. Co. Low bend, tubeless tire valve stem. 3,019,832, 2–6–62, Cl. 152—427.

Williams, Selden T., to Scovill Mfg. Co. Sidewall valve for tubeless tires. 3,031,354, 4–24–62, Cl. 156—252.

Williams, Selden T., to Scovill Mfg. Co. Fluid pressure responsive actuating means. 3,045,704, 7–24–62, Cl. 137—793.

Williams, Sumner B. Sand blast apparatus. 3,021,646, 2–20–62, Cl. 51—12.

Williams, Sumner B. Nozzle for abrasives. 3,032,930, 5–8–62, Cl. 51—11.

Williams, Sumner H., to General Aniline & Film Corp. Fiber processing machine. 3,056,275, 10–2–62, Cl. 68—15.

Williams, Thomas B.: *See*—
Uchida, Henry S., and Williams. 3,060,219.

Williams, Thomas J. Fishhook. 3,023,536, 3–6–62, Cl. 43—43.2.

Williams, Thomas R. Multiple-bead tire. 3,057,391, 10–9–62, Cl. 152—356.

Williams, Thurston V., to The O.K. Tool Co., Inc. Adjustable bit clamping means. 3,058,198, 10–16–62, Cl. 29—96.

Williams, Thurston V., to The O. K. Tool Co., Inc. Clamp and bit holder. 3,069,937, 12–25–62, Cl. 77—75.

Williams, Vernon H., to Vernco Corp. Filter frame. 3,031,-047, 4–24–62, Cl. 189—36.

Williams, Walter C. Roofer's knife. 3,058,215, 10–16–62, Cl. 30—317.

Williams, Wesley I. Hinge for molded articles. 3,019,452, 2–6–62, Cl. 4—236.

Williams, Wesley I. Floor covering for radiant heating installations. 3,037,746, 6–5–62. Cl. 257—124.

Williams, William A., and E. L. Nuernberger, to T. B. Wood's Sons Co. Clutch-free textile carding machine. 3,015,965, 1–9–62, Cl. 74—242.12.

Williams, William E.: *See*—
Warner, Donald E., and Williams. 3,059,347.

Williams William E., to Cepac, Inc. Electro-optical range finders. 3,052,754, 9–4–62, Cl. 178—6.5.

Williams, William H.: *See*—
Westfield, John A. 3,033,068.

Williams, William J., and R. A. Rehberg, deceased (by H. M. Rehberg, executrix), to Westinghouse Electric Corp. Transfer apparatus. 3,018,007, 1–23–62, Cl. 214—1.

Williams, William J., and B. W. Geffken, to Westinghouse Electric Corp. Mount pin and sealing head for sealing machine. 3,063,709, 11–13–62, Cl. 269—287.

Williams, William J., and F. T. Cox, Jr., to Rockwell Standard Corp. Automatic brake adjustment. 3,068,964, 12–18–62, Cl. 188—79.5.

Williams, William L.: *See*—
Ellenbogen, Leon, and Williams. 3,015,608.

Williams, William W.: *See*—
Catino, Sigmund C., Strobel, and Williams. 3,022,284.

Williams, Wynne: *See*—
Noller, Everett, and Williams. 3,032,250.

Williamsen, Everett J.: *See*—
Kilby, Jack S., and Williamsen. 3,069,261.

Williamson, David M.: *See*—
Ellis, Bernard, Hill, Petrow, and Williamson. 3,062,844.
Petrow, Vladimir, and Williamson. 3,028,380.
Petrow, Vladimir, and Williamson. 3,028,381.
Petrow, Vladimir, and Williamson. 3,047,591.

Williamson, David T. N.: *See*—
Good, Richard S. J. 3,051,140.

Williamson, Floyd M. Hydraulic system for fabricating dies. 3,019,707, 1–16–62, Cl. 60—51.

Williamson, Floyd M. Hydraulic control system for die pads in presses. 3,027,151, 3–27–62, Cl. 267—1.

Williamson, Floyd M. Couplings for fluid presssure lines. 3,035,857, 5–22–62, Cl. 284—19.

Williamson, Floyd M. Hydraulic control system for die pads in presses. 3,059,914, 10–23–62, Cl. 267—1.

Williamson, Frank C.: *See*—
Buntenbach, Rudolph W., Carlson, and Williamson. 3,062,574.

Williamson, George D., Jr. Grinding wheel chuck. 3,036,839, 5–29–62, Cl. 279—24.

Williamson, George H., to Johns-Manville Corp. Shingle bundle stacker. 3,056,514, 10–2–62, Cl. 214—6.

Williamson, George H., to Johns-Manville Corp. Shingle flipper. 3,070,211, 12–25–62, Cl. 198—35.

Williamson, Harold E.: *See*—
Shannon, Robert H., and Williamson. 3,061,533.

Williamson, Hilding V., and E. H. Horn, to Chemetron Corp. Fire extinguishing system. 3,052,304, 9–4–62, Cl. 169—11.

Williamson, James H.: *See*—
Evans, John L., Pickens, and Williamson. 3,060,148.

Williamson, James W. Snow disposer. 3,055,127, 9–25–62, Cl. 37—43.

Williamson, John. Liquid dispensing system. 3,018,922, 1–30–62, Cl. 222—25.

Williamson, John G.: *See*—
Bohannon, David L., Parnell, Shanklin, Williamson, and Nagel. 3,061,892.

Williamson, John R., and J. R. Doussard, to The Bendix Corp. Attitude control for high altitude missile. 3,015,210, 1–2–62, Cl. 60—35.54.

Williamson, John R., and C. D. Hawk, to The Bendix Corp. Rocket engine control system. 3,040,522, 6–26–62, Cl. 60—35.6.

Williamson, Joseph R., and J. G. Billmeyer, to The Bendix Corp. Process for mounting friction segments. 3,020,634, 2–13–62, Cl. 29—470.

Williamson, Larkin R. High pressure hydraulic pump. 3,053,195, 9–11–62, Cl. 103—153.

Williamson, Larkin R. Hollow piston. 3,053,594, 9–11–62, Cl. 309—4.
Williamson, Martin B., to The Kartridg Pak Co. Method of determining composition of an oil and water mixture. 3,050,628, 8–21–62, Cl. 252—106.
Williamson, Robert B., and I. A. De Kramer, to General Railway Signal Co. Car retarders for railroads. 3,055,455, 9–25–62, Cl. 188—62.
Williamson, Robert R., and R. L. Terry, to General Precision, Inc. Information storage system. 3,022,495, 2–20–62, Cl. 340—174.1.
Williamson, Stephen J., Jr., to Lockheed Aircraft Corp. Fixed stroke actuator or release mechanism. 3,063,515, 11–13–62, Cl. 185—37.
Williamson, T. D., Inc.: *See*—
Ver Nooy, Burton. 3,025,118.
Ver Nooy, Burton. 3,025,885.
Ver Nooy, Burton. 3,047,266.
Ver Nooy, Burton. 3,047,895.
Ver Nooy, Burton. 3,052,034.
Ver Nooy, Burton. 3,068,725.
Ver Nooy, Burton. 3,068,726.
Williamson, William A., to Clark Equipment Co. Lift truck. 3,016,973, 1–16–62, Cl. 182—14.
Williamson, William A., to Clark Equipment Co. Pivoted vehicle steering mechanism. 3,016,987, 1–16–62, Cl. 187—9.
Williamson, William A., to Clark Equipment Co. Lift linkage for low platform hand trucks. 3,048,366, 8–7–62, Cl. 254—5.
Williamson, William A., to The Yale and Towne Mfg. Co. Lifting device. 3,052,494, 9–4–62, Cl. 294—93.
Williamson, William A., to Clark Equipment Co. Tow tractor. 3,064,746, 11–20–62, Cl. 180—54.
Williamson, William A., to The Yale and Towne Mfg. Co. Industrial truck steering mechanism. 3,069,183, 12–18–62, Cl. 280—92.
Williford, Oscar H., to Bell Telephone Laboratories, Inc. Automatic call recording system. 3,062,918, 11–6–62, Cl. 179—7.
Willig, Frank J., to United States of America, Air Force. Missile launcher and high velocity gun. 3,054,329, 9–18–62, Cl. 89—1.
Willingham, Herman P., to F. K. Lytle. Shrimping gear. 3,015,903, 1–9–62, Cl. 43—9.
Willingham, John D., Jr. Combination roll and attaching device for ironer rolls. 3,045,323, 7–24–62, Cl. 29—118.
Willingham, John D., Jr. Laundry pads. 3,057,179, 10–9–62, Cl. 66—192.
Willis, Dale E.: *See*—
Glenn, James J., Jr., and Willis. 3,063,292.
Willis, Dale E., to BJ Service, Inc. Fluid flow measuring means. 3,039,302, 6–19–62, Cl. 73—155.
Willis, Grant N. Acoustical mine firing control system. 3,016,013, 1–9–62, Cl. 102—18.
Willis, Grant N., to United-Carr Fastener Corp. Socket feeding method and apparatus. 3,020,625, 2–13–62, Cl. 29—155.5.
Willis, Grant N., to United-Carr Fastener Corp. Lug package. 3,022,887, 2–27–62, Cl. 206—59.
Willis, Grant N., to J. H. Sessions & Son. Fastening device. 3,034,817, 5–15–62, Cl. 292—113.
Willis, Grant N., to Arthur G. Russell Co., Inc. Vibrator for material conveying apparatus. 3,048,260, 8–7–62, Cl. 198—220.
Willis, Grant N., and L. H. Secombe, Jr., to United Shoe Machinery Corp. Twine wrapping and jointing machines for tying bundles. 3,045,584, 7–24–62, Cl. 100—27.
Willis, James M., to The Firestone Tire & Rubber Co. Chafer for tire bead area protection. 3,018,821, 1–30–62, Cl. 156—135.
Willis Oil Tool Co.: *See*—
Willis, Robert S. 3,029,093.
Willis-Reynolds Corp.: *See*—
Reynolds, Alfred O., Plow, and Snyder. 3,023,806.
Willis, Robert S., 98¾% to Willis Oil Tool Co. and 1¼% to E. L. Decker. Pipe coupling embodying fluid pressure actuated locking means. 3,029,093, 4–10–62, Cl. 285—81.
Willis, Sumner C., to Castro Convertible Corp. Convertible bed. 3,041,634, 7–3–62, Cl. 5—13.
Willis, Vincent, to Imperial Chemical Industries Ltd. Gas discharge tubes. 3,042,833, 7–3–62, Cl. 315—111.
Willis, Walter A. Continuous web defining separable envelopes. 3,028,069, 4–3–62, Cl. 229—69.
Willis, Warren L., to General Electric Co. Encapsulated thermoelectric elements. 3,060,252, 10–23–62, Cl. 136—4.
Willis, William, to Bristol Siddeley Engines Ltd. Method of making tubes of truncated-wedge-cross-section. 3,064,-710, 11–20–62, Cl. 153—34.
Willis, William M., to Aeroquip Corp. Remote operational joint coupling. 3,026,128, 3–20–62, Cl. 285—18.
Willis, William M. H., to Daystrom, Inc. Cathode ray tube control circuit. 3,069,593, 12–18–62, Cl. 315—22.
Willis, William S., to General Motors Corp. Fir tree blade mount. 3,045,968, 7–24–62, Cl. 253—77.
Willison, Donald, to National Castings Co. Cushioning mechanism. 3,034,662, 5–15–62, Cl. 213—43.
Willison, Donald, and D. J. Wyrough, to National Castings Co. Cargo container handling system. 3,024,919, 3–13–62, Cl. 212—14.
Willison, Donald, and D. J. Wyrough, to National Castings Co. Cargo handling system. 3,034,659, 5–15–62, Cl. 212—14.
Willison, Ralph E.: *See*—
Van Hoesen, Harold E., and Willison. 3,039,253.
Williston, Samuel H.: *See*—
Morris, Marion H., and Williston. 3,023,512.
Willits, Samuel P., to Chicago Aerial Industries, Inc. Electrical energy storage device. 3,041,501, 6–26–62, Cl. 315—205.
Willits, Samuel P., and W. L. Mohan, to Chicago Aerial Industries, Inc. Parallax interval sensing device. 3,023,317, 2–27–62, Cl. 250—220.
Willitt, Arthur A. J., to Dowty Rotol Ltd. Aircraft undercarriage. 3,041,020, 6–26–62, Cl. 244—102.
Willitts, William M.: *See*—
Dickson, Robert H., and Willitts. 3,059,587.
Willman, Bertram T.: *See*—
West, Robert C., and Willman. 3,047,064.
Willman, Bertram T., to Jersey Production Research Co. Method of oil recovery by in situ combustion. 3,024,841, 3–13–62, Cl. 166—11.
Willman, Bertram T., to Jersey Production Research Co. Process for recovering oil from underground reservoirs. 3,042,114, 7–3–62, Cl. 166—11.
Willman, Bertram T., and G. W. Runberg, to Jersey Production Research Co. Oil recovery process. 3,027,942, 4–3–62, Cl. 166—11.
Willmer, Reginald W.: *See*—
Griffith, Alan A., Lees, Shaw, and Willmer. 3,047,256.
Willmore, Edward S. R., and R. F. Phipers, to Cooper, McDougall & Robertson Ltd. Purification of pyrethrum extracts. 3,055,800, 9–25–62, Cl. 167—24.
Willmund, Wolf-Dieter: *See*—
Strauss, Wennemar, Gundel, Kirstahler, and Willmund. 3,030,283.
Strauss, Wennemar, Michael, and Willmund. 3,023,151.
Strauss, Wennemar, and Willmund. 3,051,634.
Willmund, Wolf-Dieter, and W. Strauss, to Dehydag, Deutsche Hydrierwerke G.m.b.H. Bath for the production of metal electroplates. 3,023,150, 2–27–62, Cl. 204—44.
Willner, Kurt. Means for laying drainage material in the ground. 3,031,854, 5–1–62, Cl. 61—72.6.
Willock, Charles B.: *See*—
Colt, Victor L., and Willock. 3,064,745.
Willock, Charles B., to The Peters Co. Hydraulically driven motorized wheel. 3,067,831, 12–11–62, Cl. 180—66.
Willott, Douglas W., to General Motors Corp. Special belt sander finishing machine. 3,041,791, 7–3–62, Cl. 51—147.
Willoughby, Francis E., to Willoughby Mfg. Co. Apparatus for installing temporary closures in transport vehicles. 3,029,-869, 4–17–62, Cl. 160—328.
Willoughby Mfg. Co.: *See*—
Willoughby, Francis E. 3,029,869.
Willox, Frank G., to The English Electric Co. Ltd. Ram jet propelled aircraft. 3,027,118, 3–27–62, Cl. 244—15.
Wills, Marion C., to Koehring Co. Multiple joint backhoe. 3,042,233, 7–3–62, Cl. 214—138.
Willsey, Charles H. Egg contents separating mechanism. 3,029,849, 4–17–62, Cl. 146—2.
Willsey, Charles H. Egg handling conveyor for egg breaking machine. 3,039,591, 6–19–62, Cl. 198—33.
Willsey, Charles H. Egg breaking machine. 3,070,208, 12–25–62, Cl. 198—32.
Willson, Clarence P. Protective screen. 3,051,935, 8–28–62, Cl. 340—273.
Willson, Corwin D. Staggered two-story house trailers. 3,050,330, 8–21–62, Cl. 296—23.
Willson, Corwin D. Stock-car domestic ensembles. 3,058,-769, 10–16–62, Cl. 296—23.
Willson, James R., and C. D. Branson, to Robertshaw-Fulton Controls Co. Double solenoid valve. 3,050,255, 8–21–62, Cl. 236—1.
Willyoung, David M., and E. E. Gibbs, to General Electric Co. Liquid-cooled dynamoelectric machine rotor. 3,056,055, 9–25–62, Cl. 310—61.
Willys Motors, Inc.: *See*—
Ordorica, Miguel A. 3,042,133.
Schutte, Charles E. 3,026,140.
Schuttle, Charles E. 3,065,022.
Wilman, Sigismond. Rolling device for tube bending machine. 3,029,668, 4–17–62, Cl. 80—11.
Wilmer, Rudolph H., to The General Fireproofing Co. Telephone wiring support for desks. 3,043,643, 7–10–62, Cl. 312—191.
Wilmington Chemical & Rubber Corp.: *See*—
Chalfin, William L. 3,030,633.
Chalfin, William L. 3,064,270.
Wilmont, Russell A.: *See*—
Elder, Boyd B., and Wilmont. 3,049,319.
Wilmot-Breeden Ltd.: *See*—
Barker, Arthur, and Hopkins. 3,065,986.
Brady, William. 3,038,748.
Brady, William. 3,041,100.
Chanaryn, Victor, Jeavons, and Pickard. 3,058,766.
Jeavons, Philip S. 3,042,436.
Jeavons, Philip S. 3,066,965.
Wilmot Castle Co.: *See*—
Hoag, John K., and Schutt. 3,016,223.
Leuthner, Frank G. 3,069,734.
McDonald, Robert L. 3,068,064.
Richards, James V. 3,051,869.
Wilmotte, Raymond M. Electro-optical condition sensing and correcting circuits. 3,039,004, 6–12–62, Cl. 250—210.

Wilmotte, Raymond M. Electroluminescent electrical meter. 3,039,013, 6–12–62, Cl. 313—108.

Wilms, Carl A., and F. K. Mittry, Jr., to Mechanical Excavators, Inc. Excavator bucket assembly. 3,052,050, 9–4–62, Cl. 37—190.

Wilmshurst, Eric C.: *See*—
Oxley, Peter, Bristow, Housley, Woolfe, and Wilmshurst. 3,028,386.
Oxley, Peter, Woolfe, Bristow, Fraser, Williams, and Wilmshurst. 3,032,555.

Wiloth, Fritz: *See*—
Taul, Horst, and Wiloth. 3,027,355.

Wilpon, Sheldon I.: *See*—
Comerci, Frank A., Schwartz, and Wilpon. 3,046,358.

Wilson, Al M., to Ampex Corp. Noise elimination circuit for pulse duration modulation recording. 3,058,113, 10–9–62, Cl. 346—74.

Wilson, Albert G. Acoustical panel. 3,021,914, 2–20–62, Cl. 181—33.

Wilson, Alexander L., to Morgan Construction Co. Rolling mill. 3,055,242, 9–25–62, Cl. 80—31.1.

Wilson, Alfred C., to The H. B. Ives Co. Quadrant latch for Dutch doors. 3,036,849, 5–29–62, Cl. 292—241.

Wilson, Allen B., to Acme Steel Co. Method of binding. 3,061,921, 11–6–62, Cl. 29—452.

Wilson, Allen B., and H. D. Connell, to Acme Steel Co. Spring clip fastener and method of forming same. 3,031,671, 5–1–62, Cl. 1—66.

Wilson, Alva T.: *See*—
Porter, Samuel J., and Wilson. 3,028,808.

Wilson, Armin G., and S. Kuna, to Bristol-Myers Co. Aminocyclobutanemethyl benzilates. 3,029,275, 4–10–62, Cl. 260—473.

Wilson Athletic Goods Mfg. Co., Inc.: *See*—
Glahe, Frederick W. 3,041,623.
Kobos, Casimir. 3,042,929.

Wilson, Bernard T., and F. A. Bridges, to The National Cash Register Co. Memory reading channel selector. 3,041,586, 6–26–62, Cl. 340—174.1.

Wilson, Billy F.: *See*—
Monaghan, Ralph, Wilson, and Knapp. 3,019,338.

Wilson Brothers: *See*—
Anthony, Harry L., III, and Bhat. 3,068,095.

Wilson, Bruce N.: *See*—
Worsley, Michael, Wilson, and Schoepfle. 3,054,760.

Wilson, Cecil V.: *See*—
Ashton, Norman C., and Wilson. 3,045,516.

Wilson, Charles A.: *See*—
Olsen, David E., Richtmyer, and Wilson. 3,052,827.

Wilson, Charles C., H. H. Dunn, and E. H. McAngus, to West Point Mfg. Co. Apparatus for producing non-woven or reinforced fabrics. 3,029,179, 4–10–62, Cl. 156—441.

Wilson, Charles H. Diaper panty. 3,039,466, 6–19–62, Cl. 128—287.

Wilson, Charles P., Jr., F. G. Ciapetta, and J. W. Elston, Jr., to W. R. Grace & Co. Process for preparing alumina gels. 3,055,737, 9–25–62, Cl. 23—143.

Wilson, Charles P., Jr., F. G. Ciapetta, and J. W. Elston, Jr., to W. R. Grace & Co. Process for preparing alumina gels. 3,066,012, 11–27–62, Cl. 23—143.

Wilson, Charles S. Sliding panel and assembly mount. 3,018,523, 1–30–62, Cl. 20—19.

Wilson, Charles V.: *See*—
Knox, William J., Jr., and Wilson. 3,038,804.

Wilson, Charles V., and W. J. Knox, Jr., to Eastman Kodak Co. Solubilized derivatives of rosins. 3,041,171, 6–26–62, Cl. 96—94.

Wilson, Charles V., and W. J. Knox, Jr., to Eastman Kodak Co. Solubilized derivatives of rosins and process of solubilization. 3,041,326, 6–26–62, Cl. 260—97.

Wilson, Chester E.: *See*—
Keller, James L., Liggett, and Wilson. 3,020,134.

Wilson, Chester K., to Toledo Scale Corp. Elevator control. 3,056,469, 10–2–62, Cl. 187—29.

Wilson, Christian. Deep fat frying apparatus. 3,060,922, 10–30–62, Cl. 126—391.

Wilson, Christopher L.: *See*—
Heffler, Milton S., and Wilson. 3,055,871.

Wilson, Christopher L., to Miles Laboratories, Inc. Composition comprising reaction product of polyvinyl alcohol and periodate oxidized polysaccharide and process for preparing same. 3,034,999, 5–15–62, Cl. 260—17.4.

Wilson, Clifford K., R. H. Mount, and R. O. Jabbusch, to FMC Corp. Apparatus for loosening tomato skins. 3,016,936, 1–16–62, Cl. 146—47.

Wilson, Clifford K., R. H. Mount, and R. O. Jabbusch, to FMC Corp. Tomato peeling method. 3,017,298, 1–16–62, Cl. 146—234.

Wilson, Clifford K., R. H. Mount, and R. O. Jabbusch, to FMC Corp. Tomato coring machine. 3,024,822, 3–13–62, Cl. 146—52.

Wilson & Co., Engineers & Architects: *See*—
Selm, Robert P., and Hulse. 3,027,321.

Wilson & Co., Inc.: *See*—
Krumm, Dero J., and Stewart. 3,025,315.

Wilson, Donald E.: *See*—
Shelton, Winston L., Wilson, and Evjen. 3,039,284.

Wilson, Donald J.: *See*—
Paull, Donald A., and Wilson. 3,051,633.

Wilson, Donald R.: *See*—
Shuk, John J., and Wilson. 3,055,391.

Wilson, Doyne L., to Oil Base, Inc. Non-fluorescing pipe thread composition. 3,063,941, 11–13–62, Cl. 252—16.

Wilson, E. Milton, to Aerojet-General Corp. Monopropellant fuel. 3,043,099, 7–10–62, Cl. 60—35.4.

Wilson, Earl F. Sack cart. 3,041,026, 6–26–62, Cl. 248—98.

Wilson, Earl W.: *See*—
Foster, Lloyd P., and Wilson. 3,026,262.

Wilson, Earl W., and J. E. Hutchins, to Eastman Kodak Co. Process for preparing polyesters using free acids. 3,055,-869, 9–25–62, Cl. 260—75.

Wilson, Edward E.: *See*—
Stewart, Hercules D., Morris, and Wilson. 3,049,436.

Wilson, Edwin L., to Wilson-Ranger Industries, Inc. Compartmentation means for bowling ball bag. 3,067,794, 12–11–62, Cl. 150—52.

Wilson, Ellery A. Pavement marker. 3,046,854, 7–31–62, Cl. 94—44.

Wilson Engineering, Inc.: *See*—
Le Mat, Lee E., and Sullivan. 3,039,295.

Wilson, Eric: *See*—
Fisher, Jeffrey O., and Wilson. 3,033,477.

Wilson, Eric S. Barrier for use in an animal race or pen. 3,017,860, 1–23–62, Cl. 119—99.

Wilson, Ernest V., to Esso Research and Engineering Co. Lubricants resistant to atomic radiation. 3,028,334, 4–3–62, Cl. 252—18.

Wilson, Ernest V., H. R. Ertelt, and W. H. Keeber, to Esso Research and Engineering Co. Oil containing rust inhibiting combination of two ingredients. 3,036,969, 5–29–62, Cl. 252—32.7.

Wilson, Farris H., Jr., to The Goodyear Tire & Rubber Co. Stabilizing of rubbers with the reaction product of P-amino diphenylenamine and styrene. Re. 25,260, 10–16–62, Cl. 260—45.9.

Wilson, Foster M. Weather strip for sliding closures. 3,027,-937, 4–3–62, Cl. 160—40.

Wilson, Frank C. Honeycomb core machine. 3,051,824, 8–28–62, Cl. 219—80.

Wilson, Frank C., to Punch Products Corp. Air hydraulic press. 3,064,514, 11–20–62, Cl. 83—571.

Wilson, Frank R., to Q. E. Wilson. Tube flaring tool with clamp carrying gauge means for limiting the depth of tool feed. Re. 25,261, 8–6–62, Cl. 153—81.

Wilson, Frank R., to Q. E. Wilson. Tube flaring tool. 3,044,-531, 7–17–62, Cl. 153—81.

Wilson, Frederick J., and D. S. A. Gilliard, to Dewrance & Co. Ltd. Pressure gauges. 3,055,219, 9–25–62, Cl. 73—410.

Wilson, Frederick J., and D. S. A. Gilliard, to Dewrance & Co. Ltd. Instruments including movable condition-responsive elements. 3,066,538, 12–4–62, Cl. 73—415.

Wilson, Gavin F. Butter spreader. 3,031,712, 5–1–62, Cl. 15—514.

Wilson, George H.: *See*—
Wilson, Walter V., and Wilson. 3,060,729.

Wilson, George H., to Courtaulds Ltd. Detection of sudden speed changes. 3,029,347, 4–10–62, Cl. 250—219.

Wilson, Glenn R.: *See*—
Ball, George L., III, and Wilson. 3,068,434.

Wilson, Gordon A., Jr., to McGraw-Edison Co. Transformer protective device. 3,045,173, 7–17–62, Cl. 323—43.5.

Wilson, Gordon A., Jr., and J. W. Yatchum, to McGraw-Edison Co. Tap changer movable contact. 3,045,090, 7–17–62, Cl. 200—166.

Wilson, Gordon M. Tornado alarm. 3,029,422, 4–10–62, Cl. 340—21.

Wilson, Harold F., to Rohm & Haas Co. Fungicidally active sulfites. 3,052,707, 9–4–62, Cl. 260—456.

Wilson, Harry R., to The Frank G. Hough Co. Disconnect means for a pump drive. 3,039,317, 6–19–62, Cl. 74—11.

Wilson, Harry W., to S & S Corrugated Paper Machinery Co., Inc. Gluing control means. 3,046,835, 7–31–62, Cl. 118—7.

Wilson, Harry W., and L. Lautin, to Wilson Mold & Die Corp. Process for blending molding powders. 3,030,081, 4–17–62, Cl. 259—72.

Wilson, Harry W., and L. J. Saunders, to S & S Corrugated Paper Machinery Co., Inc. Corrugating flute contour. 3,053,309, 9–11–62, Cl. 156—471.

Wilson, Harry W., and L. Lautin, to Wilson Mold & Die Corp. Powder blending apparatus. 3,070,357, 12–25–62, Cl. 259—25.

Wilson, Howard G.: *See*—
Stubbs, Allan H., and Wilson. 3,036,816.

Wilson, Howard L., F. W. Banes, and J. F. Nelson, to Esso Research and Engineering Co. Composition comprising a vinyl chloride resin and an ester plasticizer. 3,046,247, 7–24–62, Cl. 260—31.8.

Wilson, Ivory C.: *See*—
Adinoff, Bernard, and Wilson. 3,068,523.

Wilson, Jack A. Sequence control mechanism. 3,066,863, 12–4–62, Cl. 235—61.11.

Wilson, Jack McC., to International Standard Electric Corp. Methods of producing silicon of high purity. 3,053,631, 9–11–62, Cl. 23—204.

Wilson, Jack W., and D. O'Mera, to Columbia Cellulose Co. Ltd. Pulping process. 3,067,086, 12–4–62, Cl. 162—83.

Wilson, James: *See*—
Ross, John W., Holmes, and Wilson. 3,032,053.

Wilson, James A.: *See*—
Heigl, John J., Wilson, and Lewis. 3,050,994.
Heigl, John J., Wilson, and McArthur. 3,027,083.
Jonach, Frederick L., Edson, and Wilson. 3,016,739.

Wilson, James C. : *See*—
Glaze, John W., Jr., and Wilson. 3,054,542.
Wilson, James C., to Owens-Illinois Glass Co. Shipping container. 3,032,254, 5–1–62, Cl. 229—37.
Wilson, James C., to Universal Instruments Corp. Radius scriber. 3,068,577, 12–18–62, Cl. 33—27.
Wilson, James D., to Banner Metals, Inc. Meat lug. 3,027,045, 3–27–62, Cl. 220—97.
Wilson, James D., to Banner Metals, Inc. Nestable-stackable container. 3,039,643, 6–19–62, Cl. 220—19.
Wilson, James E. : *See*—
Dunn, Eugene L., Wilson, Cieslicki, and Moore. 3,067,030.
Wilson, James F., 25% to L. J. Moran, 25% to H. Russo, and 25% to F. J. Anastasio. Guide for jigsaw blade. 3,038,508, 6–12–62, Cl. 143—162.
Wilson, James H., to Lever Bros. Co. Detergent composition. 3,017,363, 1–16–62, Cl. 252—152.
Wilson, Jardine C. : *See*—
Katz, Irving, Plew, and Wilson. 3,028,342.
Wilson, Jesse S., Jr. : *See*—
Shorkey, Albert F., Powell, and Wilson. 3,028,955.
Wilson, Johannes H. G. : *See*—
Ten Ham, Evert J., and Wilson. 3,032,468.
Wilson, John. Fluid beds. 3,031,769, 5–1–62, Cl. 34—57.
Wilson, John B., to Reynolds Metals Co. Package dispenser. 3,034,683, 5–15–62, Cl. 221—1.
Wilson, John E. Fluid connection and method of making same. 3,051,201, 8–28–62, Cl. 138—94.3.
Wilson, John H. Stabilizer for fluid cylinder plungers of high slenderness ratio. 3,016,992, 1–16–62, Cl. 189—14.
Wilson, John H. Multi-speed transmissions. 3,017,782, 1–23–62, Cl. 74—218.
Wilson, John H. Mud pumps. 3,033,124, 5–8–62, Cl. 103—216.
Wilson, John H. Portable rig, mast and substructure. 3,033,527, 5–8–62, Cl. 254—139.1.
Wilson, John H. Combination vehicle and drilling rig drive. 3,033,528, 5–8–62, Cl. 254—166.
Wilson, John H. Feed control device for drilling rig drums. 3,033,530, 5–8–62, Cl. 254—173.
Wilson, John H. Foldable garment support. 3,054,541, 9–18–62, Cl. 223—96.
Wilson, John H. Method of disassembling pump piston from piston rod. 3,058,207, 10–16–62, Cl. 29—427.
Wilson, John J. : *See*—
Bend, Herbert, and Wilson. 3,021,856.
Wilson, John O., to Canada, Her Majesty the Queen in the right of, as represented by the Minister of National Defence. Frequency drift detection apparatus. 3,044,018, 7–10–62, Cl. 328—141.
Wilson, John W., to Superflexit Ltd. End fittings for flexible electrical conduits. 3,037,069, 5–29–62, Cl. 174—89.
Wilson Jones Co. : *See*—
Marano, Herbert W. 3,023,065.
Wilson, Joseph E., and S. Cear, to Atlas Chemical Industries, Inc. Reinforced polyurethane plastics. 3,061,497, 10–30–62, Cl. 156—30.
Wilson, Joseph F. : *See*—
Reusser, Robert E., and Wilson. 3,057,711.
Wilson, Joseph F., to Phillips Petroleum Co. Process for the production of granular carbon-containing ammonium sulfate. 3,035,899, 5–22–62, Cl. 23—119.
Wilson, Joseph F., to Phillips Petroleum Co. Fertilizer. 3,050,383, 8–21–62, Cl. 71—11.
Wilson, Kelly L. Fish tape snagger. 3,035,817, 5–22–62, Cl. 254—134.3.
Wilson, Kermit H. Nestable combination table and bench structure. 3,028,197, 4–3–62, Cl. 297—124.
Wilson, Kermit H. Folding table and seat structure. 3,055,705, 9–25–62, Cl. 297—159.
Wilson, Lawrence A. : *See*—
Gray, Alvin E., and Wilson. 3,024,904.
Speed, Kenneth O., and Wilson. 3,016,618.
Wilson, Lawrence V., Jr., to Phillips Petroleum Co. Separation by crystallization. 3,050,953, 8–28–62, Cl. 62—58.
Wilson, Lawrence V., Jr., and E. L. Czenkusch, to Phillips Petroleum Co. Removal of solids from polymer solution. 3,028,375, 4–3–62, Cl. 260—94.9.
Wilson, Lee : *See*—
Blackman, Calvin C., 3,015,455.
Blackman, Calvin C., and Beemer. 3,056,594.
Wilson, Lee. Method of and apparatus for annealing. 3,063,878, 11–13–62, Cl. 148—13.
Wilson, Leslie H. Continuous baking ovens. 3,046,913, 7–31–62, Cl. 107—57.
Wilson, Loren R. : *See*—
Peck, Stuart L., and Wilson. 3,016,140.
Wilson, Louise A., to Personal Products Corp. Absorbent product. 3,051,177, 8–28–62, Cl. 128—285.
Wilson, Loyal V. Game apparatus. 3,036,833, 5–29–62, Cl. 273—103.
Wilson, Lucille E. : *See*—
Wilson, Porter C. and L. E. 3,052,005.
Wilson, Lucius H. : *See*—
Lundberg, Lennart A., and Wilson. 3,019,156.
Wilson, Lyman F. : *See*—
Rast, Frederick Q., and Wilson. 3,054,038.
Wilson, Martin, to United States Borax & Chemical Corp. Method and means for beneficiating ores. 3,059,774, 10–23–62, Cl. 209—166.
Wilson, Merrideth D., to Westinghouse Electric Corp. Vehicle banking device. 3,023,023, 2–27–62, Cl. 280—112.
Wilson Mold & Die Corp. : *See*—
Wilson, Harry W., and Lautin. 3,030,081.
Wilson, Harry W., and Lautin. 3,070,357.
Wilson, Nuttall, Raimond Engineers Inc. : *See*—
Nuttall, Clifford J., Jr., Blank, and Kummen. 3,035,654.
Wilson, Oliver G. : *See*—
Stump, Joseph H., Jr., and Wilson. 3,038,906.
Wilson, Paul H., to Minnesota Mining and Mfg. Co. Panel construction. 3,070,195, 12–25–62, Cl. 189—34.
Wilson, Paul V., to The Walter Kidde Co. Ltd. Gas release devices. 3,015,414, 1–2–62, Cl. 222—5.
Wilson, Peter G., to The Forgrove Machinery Co. Ltd. Wrapping machines. 3,045,404, 7–24–62, Cl. 53—180.
Wilson, Porter C., and M. E. Palmer. Resuscitator apparatus. 3,018,775, 1–30–62, Cl. 128—29.
Wilson, Porter C. and L. E. Snap cinch belt apparatus and kit. 3,052,005, 9–4–62, Cl. 24—208.
Wilson, Quinn E. : *See*—
Wilson, Frank R. Re. 25,131.
Wilson, Frank R. 3,044,331.
Wilson-Ranger Industries, Inc. : *See*—
Wilson, Edwin L. 3,067,794.
Wilson, Ray C. Self-closing safety pin. 3,030,682, 4–24–62, Cl. 24—161.
Wilson, Ray L., M. W. Greene, and J. W. Haagen-Smit, to Beckman Instruments, Inc. Galvanic cell. 3,028,317, 4–3–62, Cl. 204—1.
Wilson, Ray L. and J. W. Haagen-Smit, to Beckman Instruments, Inc. Method and apparatus for measuring dissolved oxygen. 3,042,495, 7–3–62, Cl. 23—230.
Wilson, Raymond : *See*—
Ray, William A., Wollar, and Wilson. 3,047,224.
Wilson, Raymond O., to Olympic Screw & Rivet Corp. Blind pull rivet assembly machine. 3,019,518, 2–6–62, Cl. 29—211.
Wilson, Raymond W., and T. W. Cahow, to Ford Motor Co. Semi-mounted implement. 3,035,645, 5–22–62, Cl. 172—445.
Wilson, Reagan T., to Phillips Petroleum Co. Hydrocarbon conversion with the hydrogenation of the cracked products. 3,050,457, 8–21–62, Cl. 208—67.
Wilson, Richard C. : *See*—
Kane, Garold A., and Wilson. 3,031,848.
Wilson, Richard C., to United States of America, Navy. Flametight door and flame seal for guided missile launching system. 3,064,963, 11–20–62, Cl. 268—58.
Wilson, Richard C. Carrier. 3,065,877, 11–27–62, Cl. 220—117.
Wilson, Richard J., to Sylvania Electric Products Inc. Camera. 3,031,940, 5–1–62, Cl. 95—64.
Wilson, Richard L., and W. B. Jeffrey, to Westinghouse Air Brake Co. Fluid pressure brake apparatus having selectable graduated and direct release arrangement. 3,018,138, 1–23–62, Cl. 303—36.
Wilson, Richard M., to General Precision, Inc. Cabin pressurization system. 3,039,206, 6–19–62, Cl. 35—12.
Wilson, Robert C. : *See*—
Nunn, Leslie G., Jr., and Wilson. 3,061,506.
Wilson, Robert C., and R. J. Puchaty, to Seismograph Service Corp. Radio location system. 3,019,435, 1–30–62, Cl. 343—105.
Wilson, Robert E., to Cannon Electric Co. Electrical connector with multiple release mechanism. 3,043,925, 7–10–62, Cl. 200—51.
Wilson, Robert E., to Hoerner Boxes, Inc. Pallet. 3,055,624, 9–25–62, Cl. 248—120.
Wilson, Ross D., and G. A. Deardorff. Spreader for wax or the like. 3,017,648, 1–23–62, Cl. 15—50.
Wilson, Roy G. : *See*—
Brown, Geoffrey G., and Wilson. 3,049,416.
Brown, Geoffrey G., and Wilson. 3,049,418.
Wilson, Roy K., to St. Regis Paper Co. Two-piece box body. 3,058,643, 10–16–62, Cl. 229—15.
Wilson, Roy W. Portable hunter's shelter. 3,030,972, 4–24–62, Cl. 135—1.
Wilson, Rufus W., to Wald Industries, Inc. Apparatus for marking a surface. 3,057,273, 10–9–62, Cl. 94—44.
Wilson, Samuel W. : *See*—
Amis, Maurice B., and Wilson. 3,065,165.
Wilson, Taylor, Mfg. Co. : *See*—
McConnell, William M. 3,030,901.
Wilson, Thomas C., Inc. : *See*—
Schott, Donald E. 3,043,273.
Wilson, Thomas P., G. F. Hurley, and R. M. Manyik, to Union Carbide Corp. Polymerization of ethylene in the presence of ketone promoters. 3,053,916, 9–11–62, Cl. 260—683.15.
Wilson, Vernon H., to Metamora Woodworking Co. Drawer suspension. 3,015,532, 1–2–62, Cl. 312—343.
Wilson, Victor F. : *See*—
Kuehnle, Manfred R., Zentschel, and Wilson. 3,042,201.
Wilson, Volney C., to General Electric Co. Normally superconducting cryotron maintained resistive by field produced from persistent current loop. 3,061,738, 10–30–62, Cl. 307—88.5.
Wilson, Walter R., to General Electric Co. Electric bus. 3,035,112, 5–15–62, Cl. 174—72.
Wilson, Warren M. Variable area heat exchanger. 3,047,274, 7–31–62, Cl. 257—313.
Wilson, Wesley. Fluorescent lighting fixture. 3,035,804, 5–22–62, Cl. 248—320.

Wilson, William B., and G. M. Good, to Shell Oil Co. Upgrading heavy hydrocarbon oils. 3,051,645, 8–28–62, Cl. 208—230.
Wilson, William C.: *See*—
Taylor, Clarence R., and Wilson. 3,020,537.
Taylor, Clarence R., and Wilson. 3,062,135.
Wilson, William C., to Eastman Kodak Co. Releasable coupling. 3,038,322, 6–12–62, Cl. 64—8.
Wilson, William E.: *See*—
Heine, Thomas H., and Wilson. 3,063,492.
Wilson, William E., to Westinghouse Electric Corp. Electric lamp and base therefor. 3,026,443, 3–20–62, Cl. 313—318.
Wilson, William E., to Westinghouse Electric Corp. Compression-rubber assembly. 3,063,478, 11–13–62, Cl. 141—65.
Wilson, William E., and L. L. Nicoaro, to Westinghouse Electric Corp. Lamp holder. 3,068,909, 12–18–62, Cl. 140—71.6.
Wilson, William J., to Sanders Associates, Inc. High frequency attenuator. 3,046,505, 7–24–62, Cl. 333—81.
Wilson, William L.: *See*—
Strain, Franklin, Wilson, Dietz, and Hughes. 3,068,113.
Wilson, William L., to Pittsburgh Plate Glass Co. Method of preparing metal oxides. 3,069,281, 12–18–62, Cl. 106—300.
Wilson, William P., to United States Borax & Chemical Corp. Process for treating ores containing clays. 3,051,548, 8–28–62, Cl. 23—38.
Wilson, Woodrow S.: *See*—
Akers, Edward G. 3,045,880.
Wilson's, William M., Sons, Inc.: *See*—
Dunning, Leighton. 3,044,484.
Wilsted, Harold D., and E. Gottschalk, to General Motors Corp. Telescoping vanes for jet thrust reverser. 3,053,-045, 9–11–62, Cl. 60—35.54.
Wilt, Daniel S.: *See*—
Cochrane, John D., III, and Wilt. 3,063,981.
Wilt, Myron H.: *See*—
Callighan, Robert H., and Wilt. 3,067,205.
Hawthorne, John O., and Wilt. 3,023,199.
Sheppard, Chester S., and Wilt. 3,041,348.
Wiltnebel, Augustus S.: *See*—
Trommuller, George D., and Mirra. 3,033,865.
Wilton, Barbara J.: *See*—
Wilton, Herbert C., and Costelloe. 3,018,908.
Wilton, Herbert C., and R. D. Costelloe; said Costelloe assor. of 76% to said H. C. Wilton and 24% to B. J. Wilton. Conveyor for dispensing contents of dump trucks. 3,018,908, 1–30–62, Cl. 214—508.
Wilton, Peter, and F. D. Marrow, to Union Carbide Corp. Fused bell plastic pipe joint. 3,051,509, 8–28–62, Cl. 285—21.
Wiltse, Sumner D. Tube coupling structure having combined seal and retaining means. 3,027,179, 3–27–62, Cl. 285—321.
Wiltse, Sumner D. O ring structure. 3,051,500, 8–28–62, Cl. 277—228.
Wiltse, Sumner D. Fluid flow coupling and closure devices. 3,058,717, 10–16–62, Cl. 284—19.
Wiltsey, Howard E.: *See*—
Hansen, Charles W., Wiltsey, and Christenson. 3,024,951.
Wiltshire, Arthur J., to White Sewing Machine Corp. Laminated fiber glass radome and method of making same. 3,023,135, 2–27–62, Cl. 154—43.
Wiltshire, Arthur J., to White Sewing Machine Corp. Pressure vessel and method of making same. 3,031,099, 4–24–62, Cl. 220—3.
Wimberly, Floyd T., to Raytheon Co. Distance measuring devices. 3,065,465, 11–20–62, Cl. 343—14.
Wimberly, Joseph J.: *See*—
Sauls, Thomas W., and Wimberly. 3,042,490.
Wimmer, Ernest L., and A. B. Devitt, to Chas. A. Krause Milling Co. Art of processing cereal grits. 3,022,174, 2–20–62, Cl. 99—51.
Wimmer, Glen E., to B. H. Bunn Co. Transfer mechanism for vertically stacked envelopes or the like. 3,050,173, 8–21–62, Cl. 198—20.
Wimmer, Rudolf, R. Wirtz, W. Portz, W. Fischer, and H. Schilken, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process and device for chilling hot cracked gases. 3,015,619, 1–2–62, Cl. 208—48.
Wimmer, Rudolph A., to Foster Wheeler Corp. Alignment and welding device. 3,016,855, 1–16–62, Cl. 113—102.
Wimpfheimer, A., & Bro, Inc.: *See*—
Scheel, Henry A. 3,045,319.
Winants, Gerard I. H., and J. W. Hoogendonk, to Stamicarbon N.V. Granulating ammonium nitrate-containing calcium nitrate melts. 3,056,671, 10–2–62, Cl. 71—64.
Winard, Antony: *See*—
Michaels, Adlai E., and Winard. 3,015,546.
Winberg, Ragnar W. Combined presser foot and feeder. 3,018,746, 1–30–62, Cl. 112—211.
Winberg, Ragnar W. Belt forming machine. 3,033,735, 5–8–62, Cl. 156—352.
Winberg, Ragnar W. Apparatus for forming a belt assembly including a backing and facing. 3,047,047, 7–31–62, Cl. 156—356.
Winberry, George H., Jr., to Cogsdill Tool Products, Inc. Cutting tool. 3,019,712, 2–6–62, Cl. 90—11.
Winbladh, Ragnar T. B., to British Petroleum Co., Ltd. Method of preserving unseasoned wood or lumber. 3,053,-730, 9–11–62, Cl. 167—38.7.
Winborn, Byron R., Jr.: *See*—
Santamaria, Jesse J., and Winborn. 3,068,647.
Winborne, Alton W.: *See*—
Eyler, George, Winborne, and Hestand. 3,052,003.
Wincharger Corp.: *See*—
Forss, Fritz V., and Weinig. 3,070,705.
Patnaude, Ronald A. 3,046,409.
Winchel, Henry T., to Consolidated Electronics Industries Corp. Sensitive high impedance detector. 3,059,177, 10–16–62, Cl. 324—57.
Winchell, Frank J.: *See*—
Rosenberger, Maurice S., Winchell, and Schultz. 3,016,-119.
Rosenberger, Maurice S., Winchell, and Schultz. 3,063,-530.
Winchell, Frank J., to General Motors Corp. Transmission control. 3,053,107, 9–11–62, Cl. 74—472.
Winchell, Frank J., and O. K. Kelley, to General Motors Corp. Transmission. 3,019,668, 2–6–62, Cl. 74—645.
Winchell, Paul, to Chelwin Productions, Inc. Device for filling blood containers. 3,042,086, 7–3–62, Cl. 141—390.
Winchell, Paul. Warning indicator for interrupted power supply for freezers. 3,063,235, 11–13–62, Cl. 58—144.
Winchell, Paul, to Chelwin Productions, Inc. Tandem sifter for flour and other products. 3,063,563, 11–13–62, Cl. 209—283.
Winchester, Dean S.: *See*—
Nicholas, John F., and Winchester. 3,028,540.
Winchester Electronics, Inc.: *See*—
Di Monte, Angelo M. 3,028,574.
Winckler, Gunnar A. F., to United Nuclear Corp. Thermoelectric device. 3,020,325, 2–6–62, Cl. 136—4.
Winckler, Gunnar A. F., and R. C. Evans, to United Nuclear Corp. Thermoelectric generator unit. 3,048,643, 8–7–62, Cl. 136—4.
Winckler, John R.: *See*—
Bohl, Leland S., Critchfield, Huch, Ney, and Winckler. 3,063,656.
Bohl, Leland S., Huch, Ney, and Winckler. 3,070,335.
Heuch, William F., Ney, and Winckler. 3,047,252.
Wind, Jaap, to Reactor Centrum Nederland. Point bearings for the support of a rotor rotating with high speed. 3,052,504, 9–4–62, Cl. 308—159.
Windebank, Robert W.: *See*—
Planer, George V., and Windebank. 3,061,771.
Windell, Richard, to United States of America, Navy. Sonar noise generator. 3,052,881, 9–4–62, Cl. 340—384.
Windemuth, Erwin: *See*—
Rinke, Heinrich, and Windemuth. 3,035,475.
Windemuth, Erwin, and R. Merten, ½ to Bayer Aktiengesellschaft, Farbenfabriken, and ½ to Mobay Chemical Co. Polyurethane plastics. 3,054,755, 9–18–62, Cl. 260—2.5.
Winder, William C.: *See*—
Braatz, Douglas R., and Winder. 3,046,144.
Fitzgerald, James W., Winder, and Ringo. 3,040,562.
Winders, Gordon R.: *See*—
Fox, Thomas H., Richey, and Winders. 3,059,908.
Windham, J. J.: *See*—
Chapman, Lonnel. 3,070,068.
Windholz, Thomas B., to Celanese Corp. of America. Preparation of esters by reacting an anhydride with carbonic acid diester. 3,056,827, 10–2–62, Cl. 260—476.
Windisch, Louis: *See*—
Reiterer, Ferdinand, and Windisch. 3,037,095.
Windish, August W., to J. F. Jelenko & Co., Inc. Dental alignment holder for use in producing dental restorations. 3,059,336, 10–23–62, Cl. 32—19.
Windlan, Harold M.: *See*—
Kohler, August R., Miller, and Windlan. 3,050,401.
Windle Engineering Co. Inc.: *See*—
Windle, Winfred W. and J. W. 3,039,150.
Windle, Jonathan W.: *See*—
Windle, Winfred W. and J. W. 3,039,150.
Windle, Winfred W. and J. W. 3,039,383.
Windle, Winfred W. and J. W., to Windle Engineering Co. Inc. Recovery apparatus for carding machines. 3,039,150, 6–19–62, Cl. 19—107.
Windle, Winfred W. and J. W. Baling machine. 3,039,383, 6–19–62, Cl. 100—240.
Windmassinger, George, to George B. Henne & Co., Inc. Latch lock for narrow stile door. 3,027,745, 4–3–62, Cl. 70—150.
Windmoller & Hoischer: *See*—
Niemeyer, Willy. 3,043,199.
Window Products, Inc.: *See*—
Haas, Glenn B. 3,024,881.
Windram, Harold A. Foldable chalkboard. 3,034,230, 5–15–62, Cl. 35—64.
Windsor, Harold F., to General Electric Co. Method for filming phosphor screens. 3,017,288, 1–16–62, Cl. 117—33.5.
Windsor, Meredith M., and H. R. Lincoln, to Star Cutter Co. Work locating and clamping mechanism. 3,021,735, 2–20–62, Cl. 77—62.
Windsor, Richard T., to Hays Mfg. Co. Flow control and sprinkler combination. 3,036,782, 5–29–62, Cl. 239—452.
Windsor, Richard T., to Hays Mfg. Co. High temperature pilot control valve. 3,059,892, 10–23–62, Cl. 251—38.
Windus, Wallace: *See*—
Beebe, Clarence W., Happich, Naghski, and Windus. 3,027,221.

Wineman, Robert J.: *See*—
Scola, Daniel A., Smith, and Wineman, 3,064,061.
Winer, Bernard B., and V. G. Sorokin, to Westinghouse Electric Corp. Bearing mounting assembly. 3,044,838, 7–17–62, Cl. 308—122.
Winer, Richard, to Hercules Powder Co. Extrusion method for manufacturing smokeless powder. 3,028,274, 4–3–62, Cl. 149—98.
Wines, Warren R.: *See*—
Colagrossi, Joseph, and Wines. 3,054,959.
Winestock, Bernard J., to Cole Electric Co. Self-aligning coaxial connector. 3,056,940, 10–2–62, Cl. 339—64.
Winetzer, Dwight D. Vehicle towing dolly. 3,035,812, 5–22–62, Cl. 254—2.
Winfield, Howard E., Jr., to General Motors Corp. Butter storage in refrigerators. 3,021,688, 2–20–62, Cl. 62—159.
Winfrey, James W., to Jersey Production Research Co. Pumping unit. 3,027,771, 4–3–62, Cl. 74—37.
Winfrey, James W., R. P. Knapp, and A. S. Hove, to Jersey Production Research Co. Marine transfer assembly. 3,064,-829, 11–20–62, Cl. 214—14.
Wing, Dee A. Signal for mail boxes and the like. 3,034,706, 5–15–62, Cl. 232—35.
Wing, George S., to Hi-Shear Rivet Tool Co. Motor operated hand tool for setting fasteners. 3,041,902, 7–3–62, Cl. 81—56.
Wing, Willis G., to Sperry Rand Corp. Fluid rotor gyroscopic apparatus. 3,058,359, 10–16–62, Cl. 74—5.6.
Wingate, Richard D.: *See*—
Skoglund, George A., and Wingate. 3,060,303.
Wingbermuhle, Berthold, and E. Zindel, to Reimers-Getriebe K.G., Firma. Apparatus for the automatic control of the output of power supply. 3,034,368, 5–16–62, Cl. 74—230.17.
Winger, Jerrold, L., O. Smith, and E. W. Richter, to Union Carbide Corp. Anode collector. 3,069,485, 12–18–62, Cl. 136—6.
Winger, Wayne D.: *See*—
Rhodes, William H., Brenza, Winger, and Jackson. 3,049,295.
Wingerd, Winston H., to The Borden Co. Purification and stabilization of casein. 3,040,018, 6–19–62, Cl. 260—120.
Wingerd, Winston H., C. D. Bauer, and R. D. Damisch, to The Borden Co. Method of stabilizing the flavor of casein. 3,038,913, 6–29–62, Cl. 99—20.
Wingert, Louis E., to Minnesota Mining and Mfg. Co. Heat-sensitive copy-sheet and composition therefor. 3,031,329, 4–24–62, Cl. 117—36.8.
Winget, Donald, Jr.: *See*—
Gilbert, Charles E., Sr., and Winget. 3,042,460.
Winget, James L.: *See*—
Tripp, Robert W., and Winget. 3,045,230.
Wingfield, Harold T.: *See*—
Anderson, Harvey L., and Wingfield. 3,055,855.
Winick, Jack I., to A. Lorenz. Reclining chairs. 3,057,658, 10–9–62, Cl. 297—85.
Winicov, Murray W.: *See*—
Cantor, Abraham, and Winicov. 3,028,300.
Neracher, Otto E., Schmidt, and Winicov. 3,039,916.
Winicov, Murray W. Germicidal iodine compositions. 3,028,-301, 4–3–62, Cl. 167—17.
Winicov, Murray W., to West Laboratories, Inc. Germicidal iodine-quaternary ammonium compound complexes. 3,028,-427, 4–3–62, Cl. 260—567.6.
Winicov, Murray W., and W. Schmidt, to West Laboratories, Inc. Germicidal compositions and methods for preparing the same. 3,028,299, 4–3–62, Cl. 167—17.
Winicov, Murray W., and M. G. Sutton, to West Laboratories, Inc. Germicidal iodine compositions. 3,029,183, 4–10–62, Cl. 167—17.
Winitzer, Albert J., to Northrop Corp. D.C. amplifier. 3,032,718, 5–1–62, Cl. 330—14.
Wink, Kenneth R.: *See*—
Gorski, Frank A., Voigtman, and Wink. 3,067,087.
Wolterding, Richard A., and Wink. 3,067,747.
Winkel, Herbert C.: *See*—
McAlpine, Charles H., McGowan, and Winkel. 3,057,453.
Winkel, Herbert C. Battery grid casting and trimming method and machine. 3,051,030, 8–28–62, Cl. 83—268.
Winkel, Kenneth J.: *See*—
Hanley, George P., and Winkel. 3,053,096.
Winkel Machine Co., Inc.: *See*—
McAlpine, Charles H., McGowan, and Winkel. 3,057,453.
Winkelman, James. Waterfall for aquariums. 3,057,094, 10–9–62, Cl. 40—106.51.
Winker, Daniel E. High Fidelity audio system. 3,047,661, 7–31–62, Cl. 179—1.
Winker James A., to General Mills, Inc. Ballast system. 3,063,598, 11–13–62, Cl. 222—52.
Winkler, Dean: *See*—
Roark, Richard E. 3,064,725.
Winkler, Alfred, to Agfa Aktiengesellschaft. Automatic camera controls. 3,026,783, 3–27–62, Cl. 95—10.
Winkler, Alfred, to Agfa Aktiengesellschaft. Exposure meter and view finder arrangements for photographic cameras. 3,033,090, 5–8–62, Cl. 95—10.
Winkler, Alfred, to Agfa A.G. Exposure meter. 3,063,336, 11–13–62, Cl. 88—23.
Winkler, Alfred, and E. Becker. Agfa Aktiengesellschaft. Pointer setting device for meters. 3,069,969, 12–25–62, Cl. 88—23.
Winkler, Alvin L.: *See*—
Vorrath, Elmer J., and Winkler. 3,059,386.
Winkler, De Loss E.: *See*—
Shokal, Edward C., Devlin, and Winkler. 3,040,010.
Winkler, Eric H. Portable refrigeration apparatus. 3,018,638, 1–30–62, Cl. 62—237.
Winkler, Fallert & Co. A.G., Mashinenfabrik: *See*—
Ammon, Ernst. 3,033,604.
Meierhofer, Friedrich R. 3,065,973.
Winkler, Frederick, Jr.: *See*—
Sanders, Elmore J., Winkler, and Neymark. 3,022,770.
Winkler, Friedrich: *See*—
Bohm, Siegfried, Winkler, and Skolaude. 3,052,170.
Winkler, Hans H., to VEB Grubenlampenwerke. Alkaline storage battery having superactivated electrodes and method of superactivating the electrode materials. 3,066,178, 11–27–62, Cl. 136—24.
Winkler, Louis. Clothes hanger support for shipping containers. 3,021,958, 2–20–62, Cl. 211—124.
Winkler, Richard, and K. Dünnebier, to Berkley Machine Co. Apparatus for counting and banding envelopes and the like. 3,019,886, 2–6–62, Cl. 198—134.
Winkler, Richard, and K. Dunnebier, to Berkley Machine Co. Apparatus for supplying blanks to rotary envelope making machines. 3,024,945, 2–6–62, Cl. 271—5.
Winkler, Richard, and K. Dunnebier, to Berkley Machine Co. Apparatus for transporting blanks through a drying zone. 3,021,610, 2–20–62, Cl. 34—162.
Winkler, Richard, and K. Dunnebier, to Berkley Machine Co. Method and apparatus for banding envelopes into packs. 3,041,188, 6–26–62, Cl. 53—5.
Winkler, Richard, and K. Dunnebier, to Berkley Machine Co. Mechanism for separating, aligning and timing movement of envelope blanks. 3,044,767, 7–17–62, Cl. 271—2.
Winkler, Richard, and K. Dunnebier, to Berkley Machine Co. Rotary valve for controlling application of suction. 3,069,025, 12–18–62, Cl. 214—1.
Winkler, Victor. Apparatus for demonstrating vacuum experiments. 3,039,203, 6–19–62, Cl. 35—10.
Winkler, Viktor, L. Goebbels, and K.-H. Kramer, to Clevite Corp. Cutting apparatus. 3,025,738, 3–20–62, Cl. 82—70.2.
Winn, Carrie B. Shirt, diaper, diaper cover combination. 3,023,752, 3–6–62, Cl. 128—288.
Winn, Charles F. Ditch digging and filling implement. 3,068,595, 12–18–62, Cl. 37—98.
Winn, Jesse G., Jr., to Winn Archilithic Co. Monolithic wall forming apparatus. 3,034,732, 5–15–62, Cl. 239—419.
Winn, Ray V., Jr. Apparatus for flashing in corners and margins of photographs during projection printing thereof. 3,019,702, 2–6–62, Cl. 88—24.
Winn, Robert G., to American Decalcomania Co., Inc. Machine for applying tax stamps. 3,025,211, 3–13–62, Cl. 156—542.
Winn, Robert M., to Blackstrap Dry, Inc. Blackstrap molasses product. 3,033,684, 5–8–62, Cl. 99—6.
Winn, Stanley Pearson. Curved blinds for automobiles. 3,069,198, 12–18–62, Cl. 296—97.
Winner Mfg. & Sales Co.: *See*—
Van Scoyk, Melvin W. 3,038,204.
Winnewisser, Emil A., to Ward Industries Corp. Button strip retaining means. 3,027,157, 3–27–62, Cl. 269—153.
Winnick, Charles N.: *See*—
Biswell, Charles H., and Winnick. 3,032,973.
Winnick, Charles N., to Scientific Design Co., Inc. Propylene polymerization process. 3,047,644, 7–31–62, Cl. 260—683.15.
Winnlert, Erik G. N., H. H. De Geer, and B. T. Berggren, to Sandvikens Jernverks Aktiebolag. Saw chain. 3,066,711, 12–4–62, Cl. 143—135.
Winogradoff, Nicholas N., to International Business Machines Corp. Memory device. 3,060,317, 10–23–62, Cl. 250—217.
Winsauer, Weldon O., and J. H. Edwards, to Jersey Production Research Co. Method for sand consolidation. 3,022,-825, 2–27–62, Cl. 166—38.
Winsch, Irvin O.: *See*—
Martin, Allan E., Johnson, Burris, Winsch, and Feder. 3,063,830.
Winsel, August: *See*—
Winsel, Rudolf, Wolf, Justi, and Winsel. 3,068,157.
Winslett, Arthur B. Flashlight tester. 3,047,798, 7–31–62, Cl. 324—53.
Winslow, Alfred E., to Union Carbide Corp. Polyetherhalogen compositions. 3,067,089, 12–4–62, Cl. 167—17.
Winslow, Charles A. Centrifuging and liquid-purifying device. 3,065,854, 11–27–62, Cl. 210—130.
Winslow, Charles E., Jr., to Virginia Chemicals & Smelting Co. Apparatus for introduction of fluid. 3,064,680, 11–20–62, Cl. 137—604.
Winslow Engineering and Mfg. Co.: *See*—
Moore, Lawrence L. 3,023,906.
Winslow, Field H.: *See*—
Hawkins, Walter L., and Winslow. 3,042,649.
Winslow, George H., to Kalimar, Inc. Camera accessories. 3,067,664, 12–11–62, Cl. 95—44.
Winslow, Howard L., Jr.: *See*—
Newkirk, Francis F., and Winslow. 3,034,939.
Winslow, James C., to Winslow Product Engineering Corp. Drill pointing method and machine. 3,067,548, 12–11–62, Cl. 51—94.
Winslow, James C., and R. C. Schneider, to Winslow Product Engineering Corp. Depth control means for portable power drills and the like. 3,024,673, 3–13–62, Cl. 77—55.

Winslow, James C., and H. O. Houser, to Winslow Product Engineering Corp. Drill pointer. 3,040,480, 6–26–62, Cl. 51—94.

Winslow Mfg. Co.: *See*—
Price, Leo. Re. 25,240.
Price, Leo. 3,064,469.

Winslow, Nathaniel M. Process for preparing bonded fibrous bodies and product thereof. 3,066,061, 11–27–62, Cl. 154—44.

Winslow, Paul H., to Sylvania Electric Products Inc. Priority switching circuit. 3,046,415, 7–24–62, Cl. 307—88.5.

Winslow Product Engineering Corp.: *See*—
Winslow, James C. 3,067,548.
Winslow, James C., and Houser. 3,040,480.
Winslow, James C., and Schneider. 3,024,673.

Winslow, Willis M., to Wefco, Inc. Field responsive force transmitting compositions. 3,047,507, 7–31–62, Cl. 252—75.

Winsor, Donald L.: *See*—
Schall, Louis H., and Winsor. 3,020,447.
Skowron, John F., and Winsor. 3,015,750.

Winsor, Donald L., to Raytheon Co. Tunable magnetrons. 3,027,488, 3–27–62, Cl. 315—39.61.

Winsor & Jerauld Mfg. Co.: *See*—
Waterman, John E. 3,066,377.

Winsor, Philip A., and K. A. Lloyd, to Shell Oil Co. Lubricant for rolling metals. 3,041,281, 6–26–62, Cl. 252—42.

Winsor, Travis: *See*—
Hyman, Chester, and Winsor. 3,062,202.

Winsor, Travis. Therapeutic composition for the treatment of angina pectoris and method. 3,063,900, 11–13–62, Cl. 167—65.

Winsor, Travis W., and E. Galasyn, to Galasyn Inc. Flow meter for an intravenous injection unit. 3,034,504, 5–15–62, Cl. 128—214.

Winstead, Thomas W., to Hedwin Corp. Container or drum liner. 3,027,044, 3–27–62, Cl. 220—63.

Winstead, Thomas W., to Hedwin Corp. Container with retractable projectionable spout. 3,042,271, 7–3–62, Cl. 222—529.

Winstein, Saul, to E. I. du Pont de Nemours and Co. Polycyanosubstituted cyclobutanes. 3,066,148, 11–27–62, Cl. 260—313.

Winston, Arthur W., to National Research Corp. Method for making luminescent articles. 3,047,416, 7–31–62, Cl. 117—33.5.

Winston, Charles R., to Teletype Corp. Method of and apparatus for transferring ink. 3,060,429, 10–23–62, Cl. 346—1.

Winston, Jack W., to Sheppard Enterprises. Ornamental reinforced plastic sheet material and method of making same. 3,030,255, 4–17–62, Cl. 154—47.

Winston, James. Passenger elevator construction. 3,052,321, 9–4–62, Cl. 187—1.

Wintemberg, Adelbert C., to General Steel Industries, Inc. Railway vehicle structure. 3,037,466, 6–5–62, Cl. 105—171.

Winter, Billy B. Stock feeding device. 3,026,845, 3–27–62, Cl. 119—51.11.

Winter & Co., Inc.: *See*—
Farr, Warren H. 3,048,073.

Winter, Daniel F. Chain pull unit stubble cleaner. 3,030,-752, 4–24–62, Cl. 56—377.

Winter, Eric J. Irrigation indicator. 3,048,032, 8–7–62, Cl. 73—73.

Winter, Franz, to Elektro-Bau A.G. Removal-proof magnet system for electric machines. 3,037,134, 5–29–62, Cl. 310—153.

Winter, George D.: *See*—
Scales, John T., and Winter. 3,042,037.

Winter, Jakob: *See*—
Heuck, Claus, Rochlitz, Schmidt, Vilcsek, and Winter. 3,070,578.
Strand, Werner, Rochlitz, Vilcsek, and Winter. 3,058,935.

Winter, John R., Jr. Rocker arm for internal-combustion engines. 3,020,779, 2–13–62, Cl. 74—519.

Winter, Lester L., and T. Edstrom, to Union Carbide Corp. Thermosetting cement containing furfural and pitch. 3,046,240, 7–24–62, Cl. 260—28.5.

Winter, Manfred G.: *See*—
Cramer, Friedrich D., and Winter. 3,062,858.

Winter, Paul H., and R. M. Salisbury, to Pass & Seymour, Inc. Mounting strap for interchangeable wiring devices. 3,038,-920, 6–5–62, Cl. 174—53.

Winter, Raymond J.: *See*—
Jackson, William H., and Winter. 3,067,696.

Winter, Rudolf, to O. Dörries A.G. Feed arrangement. 3,042,229, 7–3–62, Cl. 214—17.

Winter, William E., and R. Diaz, to Westinghouse Electric Corp. Purification of halogenated silicon compounds. 3,069,239, 12–18–62, Cl. 23—205.

Winterbottom, Robert: *See*—
Origoni, Victor E., and Winterbottom. 3,023,239.

Wintercorn, Andrew F.: *See*—
Miller, Kay. 3,058,286.
Rago, Rocco M. 3,019,554.

Winterhoff, Walter: *See*—
Cromberg, Otto, Pritzbuer, Winterhoff, and Mayer. 3,067,476

Wintermeyer, Marvin A. Clip. 3,060,893, 10–30–62, Cl. 120—28.

Wintermute, Glenn E., J. K. Smith, and J. C. Brighton, to Arvin Industries, Inc. Padded articles and method of making them. 3,022,211, 2–20–62, Cl. 156—222.

Wintermute, Glenn E., and J. K. Smith, to Arvin Industries, Inc. Method of forming laminated articles. 3,028,667, 4–10–62, Cl. 29—529.

Winternitz, Paul F., and A. A. Carotti, to Olin Mathieson Chemical Corp. Pyrolysis of triallyl borane. 3,022,350, 2–20–62, Cl. 260—606.5.

Winters, Cheri C., to Sperry Rand Corp. Sealing mixture and method. 3,058,210, 10–16–62, Cl. 29—472.7.

Winters, Frank H.: *See*—
Hein, Allyn J., Junck, and Winters. 3,068,596.

Winters, John D.: *See*—
Lubersky, Albert R., and Winters. 3,046,937.
Lubersky, Albert R., Winters, and Wong. 3,060,654.

Winters, Merilyn A., O. C. Slotterbeck, D. F. Koenecke, and W. L. Van Nostrand, Jr., to Esso Research and Engineering Co. Curing oxidized hydrocarbon polymer films. 3,058,-837, 10–16–62, Cl. 106—285.

Winters, Merilyn T.: *See*—
Slotterbeck, Ober C., and Winters. 3,050,489.

Winters, Merilyn T., and O. C. Slotterbeck, to Esso Research and Engineering Co. Curing an oxidized polydiolefin with reactive chlorides. 3,035,017, 5–15–62, Cl. 260—47.

Winters, Robert E. Automatic energy equalizer. 3,059,503, 10–23–62, Cl. 74—711.

Winters, Thomas F., to Frank L. Wells Co. Machine for assembling bedsprings. 3,063,472, 11–13–62, Cl. 140—3.

Wintershall Aktiengeselischaft, and Cassella Farbwerke Mainkur Aktiengesellschaft: *See*—
Zerweck, Werner, Bulian, Kunze, and Kiesewetter. 3,020,953.

Winther, Howard: *See*—
Blattner, Emil H., Blattner, and Winther. 3,015,285.

Winther, Martin P. Liquid-cooled electrical machines. 3,050,647, 8–21–62, Cl. 310—165.

Winthrop-Atkins Co., Inc.: *See*—
Nichols, Gordon E. 3,029,051.
Nichols, Gordon E. 3,033,501.
Nichols, Gordon E. 3,039,216.

Wintriss, George. Pressure sensor. 3,017,472, 1–16–62, Cl. 200—83.

Wintriss, George. Switch apparatus for detecting delivery of parts. 3,023,283, 2–27–62, Cl. 200—61.41.

Wintrode, Warner C., and D. J. Hartman, to The Bendix Corp. Reactance-type frequency sensitive bridge for speed sensor. 3,028,526, 4–3–62, Cl. 317—5.

Winz, Karl, to G. M. Pfaff, A.G. Automatic locking stitch control system for sewing and the like machines. 3,024,750, 3–13–62, Cl. 112—203.

Winz, Karl, to G. M. Pfaff A.G. Control system for operating a plurality of sewing machines. 3,033,142, 5–8–62, Cl. 112—219.

Winzenburg, Wilhelm, to Kamera-und Kinowerke Dresden, VEB. Method for producing and projecting motion pictures. 3,046,832, 7–31–62, Cl. 88—16.

Winyall, Milton E., to W. R. Grace & Co. Process for preparing silica-alumina catalysts and hydrocarbon cracking process using said catalysts. 3,066,092, 11–27–62, Cl. 208—120.

Winyall, Milton E., to W. R. Grace & Co. Process for preparing low surface area silica. 3,070,426, 12–25–62, Cl. 23—182.

Wipac Development Ltd.: *See*—
Gayler, George A. 3,037,148.
Penn, Reginald. 3,032,687.

Wiprud, Roy B. Apparatus for detecting a fault in web material. 3,037,163, 5–29–62, Cl. 324—54.

Wiremold Co., The: *See*—
Murphy, Robert H. 3,020,517.

Wire-O Corp.: *See*—
Brook, Arthur F., and Eramo. 3,064,694.

Wirfel, William M.: *See*—
Grougan, Alan, Wirfel, Lustig, and Dessauer. 3,040,259.

Wirkkala, Albert R. Loading mechanism. 3,043,442, 7–10–62, Cl. 212—7.

Wirkmaschinen-Fabrik Wilhelm Barfuss G.m.b.H.: *See*—
Liebchen, Waldemar. 3,044,283.

Wirley, John F.: *See*—
Benson, Robert W., and Wirley. 3,062,534.

Wirsching, Robert J., to Daimler-Benz Aktiengesellschaft. Fuel supply pump. 3,067,688, 12–11–62, Cl. 103—37.

Wirsching, Robert J., and U. Conrad, to Daimler-Benz Aktiengesellschaft. Control arrangement for fuel injection devices. 3,015,326, 1–2–62, Cl. 125—140.

Wirsig, John G.: *See*—
Klein, William A., and Wirsig. 3,043,673.

Wirsing, Charles E., Jr., to Martin Marietta Corp. Method of making brazed honeycomb structures. 3,030,703, 4–24–62, Cl. 29—471.1.

Wirt, John R., to General Motors Corp. Method of welding. 3,030,493, 4–17–62, Cl. 219—92.

Wirth, Allan R.: *See*—
Murdock, Stanley A., and Wirth. 3,047,426.

Wirth, Armin. Weighing apparatus. 3,036,648, 5–29–62, Cl. 177—199.

Wirth, Arno H.: *See*—
Stegmann, Ernst. 3,052,277.

Wirth, Emil R.: *See*—
Pedersen, Arne V., and Wirth. 3,024,395.

Wirth, John L., to Electro-Voice, Inc. Sound reproducing device. 3,061,676, 10–30–62, Cl. 179—1.

Wirth, Jon C.: *See*—
Wood, John F., and Wirth. 3,046,481.

Wirth, Leonard: *See*—
Feinstein, Ben, and Wirth. 3,061,256.
Wirth, Max M.: *See*—
Habeshaw, John, Oldham, and Wirth. 3,024,292.
Wirth, Milton E.: *See*—
Clements, John A., and Wirth. 3,036,569.
Wirth, Otto, to Micafil A.-G. Automatic machine for high speed winding of small motor armatures. 3,044,721, 7–17–62, Cl. 242—13.
Wirth, Wolfgang: *See*—
Helferich, Burckhardt, Behnisch, and Wirth. 3,048,518.
Meiser, Werner, Breitner, Wirth, and Kreiskott. 3,057,-778.
Wollweber, Hartmund, Hiltmann, Wirth, and Kreiskott. 3,046,298.
Wirtz, Rudolf: *See*—
Krause, Walter, Fischer, Wirtz, and Schilken. 3,047,371.
Schönberg, Manfred, Wirtz, and Quaddieg. 3,020,293.
Wimmer, Rudolf, Wirtz, Portz, Fischer, and Schilken. 3,015,619.
Wisbecker, Mary: *See*—
Weisbecker, Frank G. 3,046,766.
Wisberger, Paul M., to Goodyear Aircraft Corp. Method of making multi-walled concavo-convex objects. 3,024,-525, 3–13–62, Cl. 29—421.
Wisbey, Ronald B., to Templewood Hawksley Ltd. Apparatus for removing sludge from sludge collecting beds. 3,043,030, 7–3–62, Cl. 37—102.
Wischhusen, Egon H., to The Bendix Corp. Ignition apparatus. 3,024,326, 3–6–62, Cl. 200—30.
Wisco, Alvin A.: *See*—
De Britz, Francis M., and Wisco. 3,048,200.
Wisconsin Alumni Research Foundation: *See*—
Attoe, Osborne J. 3,059,379.
Cannon, Joseph G. 3,056,790.
Esenther, Glenn R., Allen, Casida, and Shenefelt. 3,070,-495
Gray, Margery P. 3,053,739.
Johnson, William S., and Johns. 3,049,539.
Knight, Stanley G. 3,051,379.
Knight, Stanley G. 3,031,382.
Knight, Stanley G. 3,070,497.
Kupchan, S. Morris. 3,066,142.
Kupchan, S. Morris. 3,066,143.
Kupchan, S. Morris. 3,066,144.
Schmitz, Norbert L. 3,029,634.
Strong, Frank M., Skoog, and Miller. 3,070,432.
Wisconsin Electrical Mfg. Co., Inc.: *See*—
Bale, Alton G., Jr., and Moore. 3,066,709.
Wisconsin Malting Co.: *See*—
Hollabeck, Clifford M., and Sheneman. 3,033,685.
Wisconsin Wire Works: *See*—
Mackay, Malcolm J. 3,017,904.
Wise, Belford D.: *See*—
Wong, Robert, and Wise. 3,056,705.
Wise, Cecil S.: *See*—
Lytton, Kenneth G., and Wise. 3,039,149.
Lytton, Kenneth G., and Wise. 3,039,151.
Wise, David S., to The Hickok Electrical Instrument Co. Short indicator. 3,032,708, 5–1–62, Cl. 324—20.
Wise, Donald E.: *See*—
Melloy, George F., and Wise. 3,060,016.
Wise, Eugene P., to Chrysler Corp. Fuel filter and vapor separator. 3,031,010, 4–24–62, Cl. 158—36.3.
Wise, Eugene P., to Chrysler Corp. Thermostatic fuel mixture control. 3,059,909, 10–23–62, Cl. 261—39.
Wise, George S., Jr., to Deering Milliken Research Corp. Binder motion. 3,049,859, 8–21–62, Cl. 57—99.
Wise, Glenn E. Carton cutter. 3,052,977, 9–11–62, Cl. 30—2.
Wise, Harold F.: *See*—
Daul, George C., Wise, and Wharton. 3,038,777.
Wise, Jack L.: *See*—
Frick, Darrell C., and Wise. 3,027,176.
Wise, James C.: *See*—
Dungan, Richard T., Long, Stupka, Taylor, and Wise. 3,046,944.
Wise, John B., to Mavor & Coulson Ltd. Conveyors. 3,061,-075, 10–30–62, Cl. 198—126.
Wise, John J., to Socony Mobil Oil Co., Inc. Vapor phase isomerization process. 3,060,249, 10–23–62, Cl. 260—683.75.
Wise, Joseph A., to AMP Inc. Crimping method and apparatus. 3,056,445, 10–2–62, Cl. 153—1.
Wise, Lloyd A.: *See*—
Jepson, Percy. 3,055,562.
Wise, Mark J.: *See*—
Smith, Robert E. and W. B., and Wise. 3,023,477.
Wise, Mark J., to The Flexicore Co., Inc. Casting form. 3,023,476, 3–6–62, Cl. 25—121.
Wise, Mark J., to The Flexicore Co., Inc. Means for stripping a concrete slab casting form. 3,061,904, 11–6–62, Cl. 25—120.
Wise, Mark J., and W. B. Smith, to The Flexicore Co., Inc. Slab laying cart. 3,039,632, 6–19–62, Cl. 214—370.
Wise, Ralph H., to The Anderson Co. Motion transmitting device. Re. 25,166, 5–8–62, Cl. 74—424.8.
Wise, Robert G.: *See*—
Morgan, John M., Jr., and Wise. 3,056,240.
Wiselogle, Frederick Y.: *See*—
Bodanszky, Miklos, and Wiselogle. 3,024,242.
Wiseman, Arthur W., to The Sheffield Corp. Gaging apparatus. 3,060,352, 10–23–62, Cl. 317—154.
Wiseman, David F., & Sons Ltd.: *See*—
Swain, Frank E. 3,027,909.
Swain, Frank E. 3,030,066.
Wiseman, Edward L.: *See*—
Buckmann, John P., Liggett, and Wiseman. 3,031,278.
Wiseman, Joseph. Adjustable leg means and automatic leg lift mechanism therefor. 3,069,212, 12–18–62, Cl. 311—39.
Wiseman, Neil L.: *See*—
Harris, Ben A., Baxter, and Wiseman. 3,015,737.
Wishart, James, Jr., to General Motors Corp. Electric windshield wiper control. 3,028,533, 4–3–62, Cl. 318—446.
Wishman, Marvin: *See*—
Kocay, Witold R., and Wishman. 3,028,372.
Kocay, Witold R., and Wishman. 3,040,007.
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Wiskoff, Arthur E., and J. P. Szorady. Mold base. 3,044,120, 7–17–62, Cl. 18—42.
Wiskoff, Arthur E., and J. P. Szorady. Molding assembly. 3,044,121, 7–17–62, Cl. 18—42.
Wislicenus, George F.: *See*—
McCormick, Barnes W., Eisenhuth, and Wislicenus. 3,050,624.
Wismar, William F., to Specialties Development Corp. Dual aspirating apparatus. 3,040,970, 6–26–62, Cl. 230—103.
Wismer, Marco, to Pittsburgh Plate Glass Co. Blend of a halogenated aromatic polyglycidyl ether and an aliphatic polyglycidyl ether. 3,016,362, 1–9–62, Cl. 260—42.
Wismer, Marco, to Pittsburgh Plate Glass Co. Novel halogen-containing ether alcohols. 3,043,881, 7–10–62, Cl. 260—613.
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Wismer, Marco, and W. G. Hyrdre, to Pittsburgh Plate Glass Co. Method of foaming an admixture of epoxy resin, a chlorofluorocarbon, and a curing catalyst. 3,051,665, 8–28–62, Cl. 260—2.5.
Wismer, Marco, E. E. Parker, and R. E. Park, to Pittsburgh Plate Glass Co. Polyester of a dicarboxylic acid and a halogen-containing polyol and mixtures thereof with an ethylenic monomer. 3,060,146, 10–23–62, Cl. 260—45.4.
Wisner, Jackson W., Jr.: *See*—
Kluge, Herman D., Wisner, and Lacoste. 3,017,405.
Wisotzky, Reuben, to American Biltrite Rubber Co., Inc. Laminated floor and wall covering. 3,048,510, 8–7–62, Cl. 154—49.
Wiss, J., & Sons Co.: *See*—
Wertepny, Rudolph J., Sr., and McAteer. 3,064,350.
Wissel, Joseph A. Ad-token card. 3,047,144, 7–31–62, Cl. 206—83.
Wissenschaftlich-Technisches Buro fur Reaktorbau: *See*—
Steenbeck, Max, and Schimmel. 3,031,390.
Wissinger, Alan B., to United Aircraft Corp. Automatic stabilization device. 3,050,276, 8–21–62, Cl. 244—17.13.
Wissmiller, Ivan L.: *See*—
Reese, Richard, and Wissmiller. 3,055,533.
Wissmiller, Ivan L., to Chicago Bridge & Iron Co. Safety device for insulated tank. 3,059,804, 10–23–62, Cl. 220—14.
Wisti, Andrew O.: *See*—
Wisti, Morris D. 3,060,644.
Wisti, Morris D., to A. O. Wisti, d.b.a. Star Machine & Tool Co. Brake shoe grinding device. 3,060,644, 10–30–62, Cl. 51—96.
Wistner, Roger P. Engine starting apparatus. 3,032,965, 5–8–62, Cl. 60—16.
Wistrand, John C., to Standard Packaging Corp. Sugar dispenser. 3,022,924 2–27–62, Cl. 222—456.
Wistrom, Wayne M.: *See*—
Wood, George I., and Wistrom. 3,055,438.
Wistrom, Wayne M., and H. D. Cook, to Western Tool and Stamping Co. Means for adjustably raising or lowering the fifth wheel supported vehicle. 3,038,735, 6–12–62, Cl. 280—43.17.
Witbro, Alexander W. Fish pull sensing device. 3,041,770, 7–3–62, Cl. 43—17.
Witchell, Stanley P., to Coopers Mechanical Joints Ltd. Pressure operated visual warning devices. 3,068,831, 12–18–62, Cl. 116—70.
Witcher, Donald H. Reflector-snuffer for barbecue. 3,021,830, 2–20–62, Cl. 126—25.
Witchey, Albert L.: *See*—
Biranski, Wladyslaw J., and Witchey. 3,034,356.
Witco Chemical Co. Ltd.: *See*—
Bobbe, Clarence, and Kufrin. 3,035,931.
Burrell, Harry D., and Burgess. 3,068,621.
Roberts, Douglas. 3,042,573.
Witham, Clarence A. Flushing apparatus. 3,052,892, 9–11–62, Cl. 4—26.
Witheford, John M.: *See*—
Schindler, Harvey D., Cullo, and Witheford. 3,031,420.
Witherell, Charles E., to The International Nickel Co., Inc. All-position nickel-chromium alloy welding electrode. 3,024,137, 3–6–62, Cl. 117—205.
Withers, Harold E. Adjustable spring clamp for earrings. 3,020,734, 2–13–62, Cl. 63—14.

Withrow, Lloyd L. : *See*—
Bishop, Ralph W., Wentworth, and Withrow. 3,050,376.
Witkin, Donald E., to United States of America, Army. Temperature compensating system for hydropneumatic equilibrator. 3,033,085, 5–8–62, Cl. 89—37.
Witkin, Lloyd B., to Ciba Corp. Analgesic composition consisting of morphines and amino-indanes. 3,060,091, 10–23–62, Cl. 167—65.
Witman, Richard E. : *See*—
Smith, Millard L., and Witman. 3,026,194.
Witman, Robert C., to Shell Oil Co. Process for preparing N-oxides. 3,047,579, 7–31–62, Cl. 260—290.
Witner, Eugene P., to United States of America, Atomic Energy Commission. Neutronic reactor. 3,070,529, 12–25–62, Cl. 204—193.2.
Witschi, Eduard, and W. Hoppeler, to Muller A.G. Method of manufacturing panels and device for use in connection therewith. 3,070,139, 12–25–62, Cl. 144—324.
Witt, Donald R., to Phillips Petroleum Co. Polymerization of ethylene with catalyst of titania on silica-alumina. 3,018,279, 1–23–62, Cl. 260—94.9.
Witt, Elwin O., to Clary Corp. Punch apparatus. 3,017,075, 1–16–62, Cl. 234—39.
Witt, Enrique R., to Celanese Corp. of America. Manufacture of aryl phosphate esters. 3,059,016, 10–16–62, Cl. 260—461.
Witt, Everette E. : *See*—
Berry, John M., and Witt. 3,017,287.
Witt, Governor. Cord shortening holder. 3,068,316, 12–11–62, Cl. 174—135.
Witt, Omer F. Collator machine. 3,027,160, 3–27–62, Cl. 270—52.
Witt, Richard P., to United States of America, Commerce. Plug-in packages for electronic circuits. 3,036,222, 5–22–62, Cl. 307—88.5.
Witt, Robert H., to International Harvester Co. Curtain structure for utility harvester. 3,031,836, 5–1–62, Cl. 56—501.
Witt, Robert H., to International Harvester Co. Hay crusher. 3,039,256, 6–19–62, Cl. 56—1.
Witt, Robert H., and A. G. Barows, to International Harvester Co. Forage harvester knife structure. 3,043,078, 7–10–62, Cl. 56—289.
Witt, Victor R. : *See*—
Buslik, Walter S., and Witt. 3,025,295.
Witt, Walter, to Minneapolis-Honeywell Regulator Co. Optical apparatus for detecting substances in fluids. 3,017,-802, 1–23–62, Cl. 88—14.
Witt, Walter, to Minneapolis-Honeywell Regulator Co. Measuring apparatus. 3,051,003, 8–28–62, Cl. 73—388.
Wittbecker, Emerson L., to E. I. du Pont de Nemours and Co. Polyester-urethane, process of making solution of same and products therefrom. 3,038,979, 5–29–62, Cl. 260—31.2.
Wittbrodt, Gertrude. Baby bed play pen. 3,018,493, 1–30–62, Cl. 5—99.
Witte, Bernard G., to Newaygo Engineering Co. Elevating mold dump. 3,065,872, 11–27–62, Cl. 214—707.
Witte, Frederick W., to Westinghouse Electric Corp. Permanent magnet damping assembly for integrating meters. 3,054,953, 9–18–62, Cl. 324—152.
Witte, Georg : *See*—
Melchiors, Horst, and Witte. 3,065,538.
Witte, Johan F., to Werkspoor N.V. Evaporators for producing a supersaturated solution. 3,064,721, 11–20–62, Cl. 159—2.
Witte, Johan F., to Werkspoor N.V. Crystallizers. 3,068,077, 12–11–62, Cl. 23—273.
Witte, Norman H. : *See*—
Kruse, Norman F., and Witte. 3,018,564.
Witte, Norman H., and E. Sipos, to Central Soya Co., Inc. Preparation of oilseed meal containing soybean soapstock. 3,033,683, 5–8–62, Cl. 99—2.
Witte Norman H. and E. Sipos, to Central Soya Co., Inc. Method of treating soybean oil. 3,069,443, 12–18–62, Cl. 260—428.5.
Wittel, Otto, to Eastman Kodak Co. Film pitch compensating mechanism for photographic apparatus. 3,053,142, 9–11–62, Cl. 88—17.
Wittel, Otto, and J. L. Salzer, to Eastman Kodak Co. Footage indicator mechanism. 3,016,620, 1–16–62, Cl. 33—172.
Wittel, Otto, and C. B. Estes, to Eastman Kodak Co. Automatic exposure control for photographic cameras. 3,024,-715, 3–13–62, Cl. 95—64.
Wittelle, Samuel R. : *See*—
Simons, Raymond S. 3,035,489.
Wittenberg, Edward H., and J. H. Chopa. Fluid-operated liquid sprayers. 3,018,970, 1–30–62, Cl. 239—323.
Wittenberg, Nico : *See*—
Schepman, Felix R., Wittenberg, and Van Langen. 3,046,360.
Wittenberg, Nico, to North American Philips Co., Inc. Pick-up comprising two or more needles the holders of which are externally damped. 3,051,495, 8–28–62, Cl. 274—37.
Wittenberger, Wallace W., to The Peterson Oven Co. Tray for baking oven. 3,018,872, 1–30–62, Cl. 198—24.
Wittenwyler, Clifford V., to Shell Oil Co. Composition comprising a coal product, a polyepoxide and abrasive particles and process for treating surfaces therewith. 3,033,088, 5–8–62, Cl. 94—22.
Wittle, Eugene L., and J. A. Moore, to Parke, Davis & Co. Pyrazolino pregnene compounds and methods for their production. 3,052,671, 9–4–62, Cl. 260—239.5.
Wittlich, Norbert, to Heinrich, Dipl. Ing. Friedrich, Ingenieurburo. Hydraulically operated percussion devices. 3,035,548, 5–22–62, Cl. 121—23.
Wittlich, Norbert, and A. Gill. Self-operated livestock-watering pasture pump. 3,066,650, 12–4–62, Cl. 119—75.
Wittlin, Albert. Fluid indicator. 3,046,097, 7–24–62, Cl. 23—253.
Wittman, Emil A., and J. Pollak. Device for preventing car doors from opening. 3,059,952, 10–23–62, Cl. 292—288.
Wittmann, James L. : *See*—
Nigrelli, Biagio J., Standley, and R. B. and J. I. Wittmann. 3,053,025.
Wittmann, Richard B. : *See*—
Nigrelli, Biagio J., Standley, and R. B. and J. I. Wittmann. 3,053,025.
Nigrelli, Biagio J., Standley, Wittmann, and Ferraro. 3,034,270.
Wittreich, Paul E., K. A. Folkers, and F. M. Robinson, to Merck & Co., Inc. New benzimidazoles. 3,056,777, 10–2–62, Cl. 260—239.9.
Wittrock, Henry J., to Kaiser Aluminum & Chemical Corp. Coloring oxide coated aluminum and product. 3,057,761, 10–9–62, Cl. 148—6.1.
Wittrock, Ludwig, to Gewerkschaft Schalker Eisenhutte. Feed mechanism for liquefiable comminuted material. 3,043,480, 7–10–62, Cl. 222—146.
Wittwer, George G. Synthetic detergent cake and process for making the same. 3,055,837, 9–25–62, Cl. 252—161.
Wittwer, George G. Synthetic detergent cake and process for making the same. 3,057,805, 10–9–62, Cl. 252—161.
Witzel, Hans : *See*—
Koerner, Howard, Witzel, and Barshied. 3,052,552.
Witzel, Walter : *See*—
Jacobs, William H., and Witzel. 3,052,791.
Witzel, Walter H. : *See*—
Tripp, Joseph E., and Witzel. 3,044,456.
Witzenburg, Marion. Apparatus for the automatic feeding of hogs. 3,025,832, 3–20–62, Cl. 119—52.
Witzenburg, Marion. Apparatus and process for agitating stored grain. 3,051,459, 8–28–62, Cl. 262—14.
Witzke, Ernest C., to Combustion Engineering, Inc. Furnace wall and support therefor. 3,030,927, 4–24–62, Cl. 122—6.
Witzke, Ernest C., to Combustion Engineering, Inc. Tubular wall arrangement and support therefor. 3,046,957, 7–31–62, Cl. 122—510.
Witzmann, Franz. Device for preventing the swerving of motor vehicles. 3,052,325, 9–4–62, Cl. 188—5.
Wix Corp. : *See*—
Hough, Lewis M. 3,045,827.
Humbert, Kingsley E., Jr. 3,061,101.
Humbert, Kingsley E., Jr., Young, and Hough. 3,045,928.
Humbert, Kingsley E., Jr., Young, and Hough. 3,054,507.
Wixon, Harold E., to Colgate-Palmolive Co. Liquid laundering compositions. 3,052,635, 9–4–62, Cl. 252—137.
Wizmann Institute of Science, The : *See*—
Katchalsky, Aharon, Bursztyn, Rim, and Vofsi. 3,019,-557.
Wladis, S. Anton : *See*—
Wicoff, John R. 3,062,056.
Wlodarczak, Heinz : *See*—
Neidhardt, Rudolf, and Wlodarczak. 3,030,009.
Wlodek, Stanley T. : *See*—
Weisert, Edward D., and Wlodek. 3,037,858.
Wlodek, Stanley T., E. D. Weisert, and P. M. Moanfeldt, to Union Carbide Corp. Columbium base alloy. 3,028,236, 4–3–62, Cl. 75—174.
Wlodek, Tadeusz W. Methods for differential plastic deformation of metal and other plastic materials. 3,017,697, 1–23–62, Cl. 29—552.
Wobrak, Robert E. : *See*—
Kozlovic, John M., and Wobrak. 3,030,463.
Wochner, Fred J. : *See*—
Bornemann, William J., Senior, and Wochner. 3,065,681.
Wodward, James A., Jr., to O. G. Feich. Combination switch and lighting element. 3,058,032, 10–9–62, Cl. 315—272.
Woehst, James E. : *See*—
Rogers, William A., Jr., Woehst, and Smith. 3,022,315.
Woelfel, George W. : *See*—
Sherno, Stanley A. 3,061,881.
Woerner, John C., to Penta Laboratories, Inc. Ceramic metalizing process. 3,051,592, 8–28–62, Cl. 117—121.
Woerner, Rudolph C., to Petro-Tex Chemical Corp. Extractive distillation process. 3,026,253, 3–20–62, Cl. 202—39.5.
Woertz, Byron B., and L. R. W. Holm, to The Pure Oil Co. Improved waterflooding process. 3,032,101, 5–1–62, Cl. 166—9.
Wofford, Gene L., to Monsanto Chemical Co. Polymerization inhibitor. 3,060,245, 10–23–62, Cl. 260—652.5.
Wofford, George D., to The Bendix Corp. Protection circuit for transistorized power converter. 3,038,127, 6–5–62, Cl. 331—62.
Woguis, John P., R. H. Kerruish, and C. B. Monk, Jr., to Structural Clay Products Research Foundation. Apparatus for casting panels. 3,058,190, 10–16–62, Cl. 25—1.
Wohl, Joseph G., to Dunlap and Associates, Inc. Velocity modulated steering system. 3,067,832, 12–11–62, Cl. 180—79.2.
Wohl, Robert J. Wide frequency range electromechanical vibrator. 3,020,751, 2–13–62, Cl. 73—71.6.
Wohlenberg, H., Kommanditgesellschaft, Messrs. : *See*—
Paul, Siegfried, and Guse. 3,061,764.

Wohlfahrt, Sixten E. S., and F. K. E. Johansson, to Stora Kapparbergs Bergslags Aktiebolag. Device for refining of metals. 3,057,616, 10–9–62, Cl. 266—36.
Wohlforth, Ralph L., to Phelps Dodge Copper Products Corp. Packaging of coiled tubes. 3,018,883, 1–30–62, Cl. 206—59.
Wohlforth, Ralph L., to Phelps Dodge Copper Products Corp. Apparatus for packaging annular articles. 3,024,584, 3–13–62, Cl. 53—204.
Wohlstrom, Robert C. Sparking toy. 3,052,060, 9–4–62, Cl. 46—48.
Wojciechowski, Walter J.: *See*—
Brandt, Gotlieb H., and Wojciechowski. 3,039,388.
Wojciechowski, Walter J., and W. Weigl, to Harris-Intertype Corp. Lithographic dampening device and method. 3,038,405, 6–12–62, Cl. 101—148.
Wojcik, Bernard F., to Limit Gages, Inc. Depth gauge. 3,050,859, 8–28–62, Cl. 33—172.
Wojcik, Bruno H.: *See*—
Robson, Homer L., and Wojcik. 3,061,409.
Wojcik, Roger B.: *See*—
Buckley, Francis T., Seldin, and Wojcik. 3,069,301.
Wojtkowiak, Leo J. Fishing device. 3,023,531, 3–6–62, Cl. 43—16.
Wolak, Kurt, K. Karrer, and R. Rettig, to Siemens & Halske Aktiengesellschaft Berlin and Munich. Chatter-free sealed-in contacts. 3,033,965, 5–8–62, Cl. 200—166.
Wolanek, Hilardy: *See*—
Kogan, Philip, Wolanek, and Wagner. 3,017,486.
Wolanski, Zdenek. Hook-on neck-tie. 3,020,554, 2–13–62, Cl. 2—153.
Wolaver, Robert M.: *See*—
Mankki, Onnie, and Wolaver. 3,062,131.
Wolber, Kurt: *See*—
Zerlin, Hans, and Wolber. 3,069,981.
Wolber, James E., to The Pure Oil Co. Method and apparatus for measuring corrosion of stressed materials. 3,060,728, 10–30–62, Cl. 73—86.
Wolber, John R., to Westrip Laboratories, Inc. Film holder. 3,054,340, 9–18–62, Cl. 95—100.
Wolbert, Harris J., to American Can Co. Coating thickness gauge. 3,017,512, 1–16–62, Cl. 250—83.3.
Wolchuk, Roman. Prefabricated bridge deck panels. 3,066,771, 12–4–62, Cl. 189—34.
Wolcott, Edson R. Process for recovering valuable rare metals by volatilization. 3,049,422, 8–14–62, Cl. 75—63.
Wolcott, George L., to Bristol-Myers Co. Hematinic compositions. 3,027,303, 3–27–62, Cl. 167—68.
Wolcott, Henry O., to Optimation, Inc. Low level frequency dividing network. 3,067,390, 12–4–62, Cl. 330—126.
Wolcott, Leslie C.: *See*—
Scofield, Robert O., Sr., and Wolcott. 3,058,555.
Wolensky, William: *See*—
Brennemann, Andrew E., Wild, and Wolensky. 3,054,091.
Woleslagle, Arnold. Safety guard for chain saw. 3,059,673, 10–23–62, Cl. 143—32.
Wolf, Alfred A.: *See*—
Paschke, Frank R., and Wolf. 3,031,599.
Richards, Paul, and Wolf. 3,060,367.
Wolf, Alfred A., to Atlas Chemical Industries, Inc. Quick trip switch. 3,019,315, 1–30–62, Cl. 200—97.
Wolf, Anton: *See*—
Mathes, Wilhelm, and Wolf. 3,042,678.
Wolf, Buckau R., Aktiengesellschaft, Maschinenfabrik: *See*—
Hullen, Hermann. 3,022,146.
Wolf, Calvin N.: *See*—
Etherington, Robert W., Jr., and Wolf. 3,031,508.
Wolf, Charles. Pocket card holding assembly. 3,068,923, 12–18–62, Cl. 150—35.
Wolf Detroit Envelope Co., The: *See*—
Affelder, Harry F. 3,023,128.
Mead, Donald F., and Miller. 3,069,683.
Wolf, Donald E.: *See*—
Folkers, Karl A., Hoffman, and Wolf. 3,068,295.
Folkers, Karl, and Wolf. 3,026,330.
Folkers, Karl, and Wolf. 3,064,012.
Wolf, Edgar: *See*—
Weida, Robert L., and Wolf. 3,042,902.
Wolf, Erich, and J. Eulitz, to Forschungszentrums der Luftfahrtindustrie. Power plant for jet propelled aircraft. 3,054,577, 9–18–62, Cl. 244—15.
Wolf, Frank E. Microscope slides. 3,029,695, 4–17–62, Cl. 88—40.
Wolf, George D. Emergency power supply. 3,025,408, 3–13–62, Cl. 290—1.
Wolf, George S.: *See*—
Reifers, Richard F., and Wolf. 3,056,494.
Wolf, Gerhard. Circuit for controlling the sweep of a cathode-ray oscilloscope. 3,015,753, 1–2–62, Cl. 315—26.
Wolf, Harold W., and W. von Bergen, to J. P. Stevens & Co., Inc. Lustered wool product and method of making the same. 3,051,544, 8–28–62, Cl. 8—128.
Wolf, Helmut, to Lohmann K.G. Embossed bandaging material. 3,053,252, 9–11–62, Cl. 128—156.
Wolf, Herbert O., to E. I. du Pont de Nemours, and Co. Halogenation initiator. 3,047,642, 7–31–62, Cl. 260—653.8.
Wolf, Jacques, & Co.: *See*—
Rogers, Thomas E. 3,048,477.
Sellet, Lucien. 3,024,136.
Wolf, Lloyd J.: *See*—
Lessing, Wilfred E., and Wolf. 3,052,498.
Wolf, Lloyd J. Control for dual engine vehicles. 3,027,962, 4–3–62, Cl. 180—77.
Wolf, Mari B.: *See*—
Cunningham, Patrick J., and Wolf. 3,043,136.
Wolf, Martin. Beverage infusion apparatus. 3,062,126, 11–6–62, Cl. 99—289.
Wolf, Morris A. Manikin. 3,028,058, 4–3–62, Cl. 223—68.
Wolf, Ralph F., to Pittsburgh Plate Glass Co. Rubber vulcanizate comprising a metallo-carboxylate polymer of a conjugated diene, a butadiene copolymer and silica, and process for preparing same. 3,038,872, 6–12–62, Cl. 260—41.5.
Wolf, Robert C., and J. C. Bowen, to Pressure Products Industries, Inc. High pressure diaphragm compressors and pumps. 3,052,188, 9–4–62, Cl. 103—44.
Wolf, Robert V., to Nuclear Corp. of America, Inc. Teletherapy head having shielding carrier for radioactive source. 3,032,661, 5–1–62, Cl. 250—108.
Wolf, Saul. Means for regulating mass burning rate of solid propellants. 3,067,683, 12–11–62, Cl. 102—49.
Wolf, Stewart G., Jr., R. Caputto, and R. E. Trucco, to Research Corp. Method of isolating gastric secretion inhibitory substance, and the enzyme gastricin, and the resulting product. 3,026,251, 3–20–62, Cl. 195—62.
Wolf, Victor, Ltd.: *See*—
Rowe, Richard. 3,059,003.
Wolf, Viktor, and W. Loop, to Nordmark-Werke G.m.b.H. Process for the production of 2-(benzene-sulfonamido)-oxazoles. 3,052,673, 9–4–62, Cl. 260—239.9.
Wolf, Viktor, and W. Loop, to Nordmark-Werke Gesellschaft mit beschrankter Haftung. Process for the production of 2-(benzene-sulfonamido)-oxazoles. 3,052,674, 9–4–62, Cl. 260—239.9.
Wolf, Viktor, and W. Loop, to Nordmark-Werke Gesellschaft mit beschrankter Haftung. Process for the production of 2-amino-oxazoles. 3,052,687, 9–4–62, Cl. 260—307.
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Wolf, Walther, G. Rosch, E. Degener, H. Klappert, and S. Petersen, to Farbenfabriken Bayer Aktiengesellschaft. Process for the manufacture of dyestuffs. 3,058,991, 10–16–62, Cl. 260—313.
Wolf, William C. Deep well submersible pumping unit. 3,050,006, 8–21–62, Cl. 103—46.
Wolfe, Albert M., Jr., to The National Cash Register Co. Dynamic clock recorder. 3,041,585, 6–26–62, Cl. 340—174.1.
Wolfe, Court L.: *See*—
Hall, William K., Sill, and Wolfe. 3,028,213.
Wolfe, Denis G., to Robertshaw-Fulton Controls Co. Snap action switch. 3,038,043, 6–5–62, Cl. 200—67.
Wolfe, Edwin W., to General Aniline & Film Corp. Viscose composition and method of spinning. 3,047,412, 7–31–62, Cl. 106—165.
Wolfe, H. Hix, and E. W. Haas, to The Duro Co. Submersible type pump. 3,025,800, 3–20–62, Cl. 103—108.
Wolfe, Howard, and H. W. Samo, to Margon Corp. Toy figure and eyeset therefor. 3,068,613, 12–18–62, Cl. 46—168.
Wolfe, Larry W.: *See*—
Duble, Orville L., and Wolfe. 3,042,001.
Wolfe, Lester. Utility desk and drawing board and the like. 3,049,390, 8–14–62, Cl. 312—231.
Wolfe, Merritt W. Swing out twin tissue dispenser. 3,049,310, 8–14–62, Cl. 242—55.3.
Wolfe, Paul G., to Philco Corp. Coincidence circuit with means to prevent signal distortion. 3,024,305, 3–6–62, Cl. 178—5.8.
Wolfe, Raymond E., to Crown Zellerbach Corp. Aligning device for manufacturer's tape joints of containers. 3,021,994, 2–20–62, Cl. 229—37.
Wolfe, Richard A.: *See*—
Schauner, Burton E., and Wolfe. 3,069,338.
Wolfe, Robert A., to Spear Products, Inc. Record repeater. 3,034,794, 5–15–62, Cl. 274—15.
Wolfe, Robert M.: *See*—
James, Dennis B., and Wolfe. 3,056,085.
Wolfe, Robert W.: *See*—
Lloyd, John B., and Wolfe. 3,061,876.
Wolfe, Robert W. Water fluoridation device. 3,025,876, 3–20–62, Cl. 137—564.5.
Wolfe, Roger W., to Burroughs Corp. Magnetron tube. 3,032,675, 5–1–62, Cl. 313—158.
Wolfe, Roger W., and D. Glaser, to Burroughs Corp. Pulse generator. 3,028,520, 4–3–62, Cl. 315—8.5.
Wolfe, Thomas. Apparatus for curing and holding tobacco pipes. 3,056,412, 10–2–62, Cl. 131—172.
Wolfe, Walter W., S. R. Walstrom, and V. V. Nash, to Superior Separator Co. Multi-function attachments carrier for farm loaders and the like. 3,034,237, 5–15–62, Cl. 37—117.5.
Wolfe, William R., Jr., to E. I. du Pont de Nemours and Co. Electrolytic production of fluorocarbons and metallic sodium. 3,017,335, 1–16–62, Cl. 204—62.
Wolfendale, Eric, to North American Philips Co., Inc. Pulsing circuit using punch-through transistor. 3,049,677, 8–14–62, Cl. 331—111.
Wolfensperger, Adolph: *See*—
Matheson, Edmund E., and Wolfensperger. 3,056,573.
Wolfensperger, Adolph, to Rockwell Mfg. Co. Ball type lubricated plug valve. 3,042,066, 7–3–62, Cl. 137—246.11.
Wolfer, John E., Jr.: *See*—
Snyder, Edward C., and Wolfer. 3,066,049.

Wolfer, Otto J., to The Pure Oil Co. Highway truck tire. 3,030,999, 4–24–62, Cl. 152—209.

Wolff, Edwin K.: *See*—
Von Hofe, George W., and Wolff. 3,038,391.

Wolff, George M., to General Electric Co. Insulating hose protective device. 3,052,746, 9–4–62, Cl. 174—8.

Wolff, Guenther A.: *See*—
Adams, Irving, and Wolff. 3,036,014.

Wolff, Hans: *See*—
Brailey, James A., and Wolff. 3,030,392.

Wolff, Hanns H., to Maxson Electronics Corp. Passive radio frequency detection apparatus and method. 3,020,544, 2–6–62, Cl. 343—100.

Wolff, Hanns H., to Daco Instrument Co. Relays and solenoids. 3,035,135, 5–15–62, Cl. 200—87.

Wolff, Harry O. Clamp devices. 3,035,319, 5–22–62, Cl. 24—19.

Wolff, Herbert, to United States of America, Atomic Energy Commission. Switching transmitter positioning of synchros. 3,025,442, 3–13–62, Cl. 318—24.

Wolff, Hermann P.: *See*—
Kahn, Allan A., and Wolff. 3,023,320.

Wolff, Hermann P., to International Business Machines Corp. Carrier-logic circuits employing microwave transmission lines with selective impedance switching on main lines or on stubs. 3,069,629, 12–18–62, Cl. 328—92.

Wolff, Ivan A.: *See*—
Smith, Cecil R., Jr., Bagby, and Wolff. 3,057,893.

Wolff, J. Edward: *See*—
Klumpp, Theodore G., Wolff, and Kaplan. 3,019,169.

Wolff, Lothar, and W. Mantel, to Gesellschaft fur Lindes Eismaschinen Aktiengesellschaft. Protective gas mixture for arc welding with a fusible bare metal wire electrode. 3,035,154, 5–15–62, Cl. 219—74.

Wolff, Louis: *See*—
Budofsky, Seymour S. 3,052,329.
Hillenbrand, George C. 3,052,946.

Wolff, Manfred E.: *See*—
Georgian, Vlasios, Kerwin, and Wolff. 3,019,235.
Kerwin, James F., and Wolff. 3,033,861.

Wolff, Otto E.: *See*—
Eburn, William H., Jr., and Wolff. 3,062,115.
Land, Edwin H., Grey, and Wolff. 3,032,008.
Wareham, Richard R., and Wolff. 3,016,175.

Wolff, Otto E., to Polaroid Corp. Photographic film assemblage. 3,053,660, 9–11–62, Cl. 96—76.

Wolff, Paul H. W.: *See*—
Arms, Henry S., Wolff, and Rooney. 3,070,533.

Wolff, Pierre B.: *See*—
Denis, Louis, Wolff, and Brocard. 3,018,748.

Wolff, William F., to Standard Oil Co. Diesters of dithiosulfurous acid and methods of preparing same. 3,015,670, 1–2–62, Cl. 260—453.

Wolfram, Arthur: *See*—
Sennewald, Kurt, Wolfram, Kolb, Sievers, and Hoyer. 3,057,916.

Wolfram, Arthur, H. Kaltenhäuser, H. Lorenz, and G. Relken, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for separating carbon dioxide from gas mixtures. 3,042,483, 7–3–62, Cl. 23—2.

Wolfram, Arthur, and H. Lorenz, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the separation of higher acetylene hydrocarbons. 3,060,247, 10–23–62, Cl. 260—679.

Wolfram, William S., to General Motors Corp. Drive system. 3,048,056, 8–7–62, Cl. 74—665.

Wolfram, William S., to General Motors Corp. Drive systems. 3,059,493, 10–23–62, Cl. 74—336.5.

Wolfrom, Melville L.: *See*—
Steyermark, Paul R., and Wolfram. 3,023,205.

Wolfrom, Robert E.: *See*—
Dupre, Jean, and Wolfrom. 3,021,372.

Wolfskill, John M. Mounting support for piezoelectric crystal units. 3,017,525, 1–16–62, Cl. 310—9.40.

Wolfskill, John M., to Bliley Electric Co. Long ultrasonic delay line. 3,025,479, 3–13–62, Cl. 333—30.

Wolfskill, John M., to Bliley Electric Co. Method of producing piezoelectric crystal devices. 3,037,263, 6–5–62, Cl. 29—25.35.

Wolfskill, John M., to Robertshaw-Fulton Controls Co. Electrical heating and temperature regulating apparatus. 3,034,056, 6–5–62, Cl. 219—19.

Wolfskill, John M., and R. H. Tuznik, to Bliley Electric Co. High shock and vibration resistant piezoelectric crystal units. 3,046,423, 7–24–62, Cl. 310—9.1.

Wolgast, Carl L.: *See*—
Schwartz, Harold O., and Wolgast. 3,056,327.

Wolinski, Leon E., to E. I. du Pont de Nemours, and Co. Process for preparing heat-sealable, printable polyolefin structures. 3,042,971, 7–10–62, Cl. 18—47.5.

Wolinski, Leon E., to E. I. du Pont de Nemours and Co. Process of dyeing a linear polyester. 3,049,394, 8–14–62, Cl. 8—55.

Wolinski, Leon E., to E. I. du Pont de Nemours and Co. Process for producing a heat-sealable printable polyethylene structure. 3,061,882, 11–6–62, Cl. 18—47.5.

Wolinsky, Albert, to General Precision, Inc. Motion sensing system. 3,047,855, 7–31–62, Cl. 340—347.

Wolk, Robert S. Paper tape re-reeling device. 3,033,481, 5–8–62, Cl. 242—67.1.

Wolke, Herbert: *See*—
Hoppe, Alfred, Langner, Westerhoff, Wolke, and Hauenstein. 3,019,179.

Wolke, Richard W., and E. F. Kubler, to General Electric Co. Speed control system for D. C. motors. 3,026,463, 3–20–62, Cl. 318—327.

Wolkstein, Herbert J., and R. E. Bridge, to Radio Corp. of America. Travelling wave tube coupler. 3,020,444, 2–6–62, Cl. 315—39.3.

Woll, Alvin C. Game apparatus. 3,052,226, 9–4–62, Cl. 124—5.

Wollar, Burnell J.: *See*—
Ray, William A., Wollar, and Wilson. 3,047,224.

Wollar, Burnell J., to General Controls Co. Motion converting mechanism particularly useful in counters. 3,043,157, 7–10–62, Cl. 74—436.

Wollenhaupt, Jakob, to Honsberg, Gebruder. Electro-mechanical clamping drive with electric control. 3,063,708, 11–13–62, Cl. 269—216.

Wollentin, Alvin O., to Westinghouse Electric Corp. Overwind device. 3,044,529, 7–17–62, Cl. 153—67.

Wollner, Herbert J., to ACH Fiber Service, Inc. Tool for sampling batches of fibrous material. 3,016,749, 1–16–62, Cl. 73—425.

Wollner, Herbert J., to ACH Fiber Service, Inc. Apparatus for sampling wool and other fibers. 3,064,482, 11–20–62, Cl. 73—423.

Wollner, Johannes, to Rheinpreussen Aktiengesellschaft fur Bergbau und Chemie. Synthesis of dioxane compounds. 3,015,665, 1–2–62, Cl. 260—340.7.

Wollner, Johannes, to Rheinpreussen Aktiengesellschaft fur Bergbau und Chemie. Production of organic compounds containing methylol groups. 3,024,249, 3–6–62, Cl. 260—340.7.

Wollschina, Wolfgang: *See*—
Gerwing, Harry, Longree, and Wollschina. 3,043,901.

Wollweber, Hammond, R. Hiltmann, W. Wirth, and H. Kreiskoff, to Farbenfabriken Bayer Aktiengesellschaft. Bicyclo-[2,2,1]-heptane hydrazine derivatives. 3,046,298, 7–24–62, Cl. 260—468.

Wolnak, Bernard, and L. F. Barrington, to Armour and Co. Aerobic fermentation process. 3,041,250, 6–26–62, Cl. 195—109.

Wolniak, Stanley C.: *See*—
Gray, Raymond K., and Wolniak. 3,064,303.

Wolowicz, Richard S., to Container Corp. of America. Folding carton with internal reinforcing structure. 3,047,204, 7–31–62, Cl. 229—41.

Wolrab, Vincent F. Rotary circuit breaker. 3,022,389, 2–20–62, Cl. 200—24.

Wolsam, Ltd.: *See*—
Goldberg, Samuel. 3,032,895.

Wolski, Jack H. Wrist and arm exerciser. 3,033,565, 5–8–62, Cl. 272—68.

Wolter, Harry A.: *See*—
Strakosch, Clarence P., Jr., Smith and Wolter. 3,029,570.
Strakosch, Clarence P., Jr., Smith and Wolter. 3,029,781.

Wolter, Harry A., and G. L. Vaughan, to Diamond National Corp. Clothespin counting and assembling machine. 3,015,924, 1–9–62, Cl. 53—197.

Wolterding, Richard A.: *See*—
Rempka, Joachim K. O., Schmidt, and Woltersdorf. 3,040,176.
Voigtman, Edward H., and Wolterding. 3,036,573.

Wolterding, Richard A., and K. R. Wink, to Kimberly-Clark Corp. Cellulosic product. 3,067,747, 12–11–62, Cl. 128—296.

Wolverine Equipment Co.: *See*—
Brown, Ernest C. 3,060,590.
Dapses, William P. 3,060,595.

Wolverine Shoe and Tanning Corp.: *See*—
Hunting, Donald L., and Moyle. 3,034,235.

Wolverton, George W.: *See*—
Carbaugh, Robert A., and Wolverton. 3,056,942.

Wolze, Martin, to Adhesive tape conditioning means. 3,026,-397, 3–20–62, Cl. 219—19.

Womble, Glenn F., to Martin-Marietta Corp. Improved method of dyeing cellulosic fibers with indocarbon black sulfur dyestuff. 3,043,645, 7–10–62, Cl. 8—37.

Womble, Glenn F., to Martin-Marietta Corp. Method of manufacturing multicolored cellulose fabrics with indocarbon black sulfur dye. 3,053,604, 9–11–62, Cl. 8—14.

Womble, Sherman C., Jr., to Delta Dynamics Corp. Safety device for firearms. 3,031,787, 5–1–62, Cl. 42—70.

Womersley, John R., and R. Townsend, to International Computers and Tabulators Ltd. Serial adder for binary coded numbers with radix correction. 3,062,446, 11–6–62, Cl. 235—170.

Wonder Products Co.: *See*—
MacMillan, Kenneth T., and Millhoff. 3,015,846.

Wong, Edward L.: *See*—
Lubersky, Albert R., Winters, and Wong. 3,060,654.

Wong, Morton M., and E. K. Kleespies, to United States of America, Interior. Method for reduction of refractory metal oxide to metal by calcium carbide. 3,016,296, 1–9–62, Cl. 75—84.

Wong, Robert, to Owens-Corning Fiberglas Corp. Metallized glass fibers and method. 3,062,677, 11–6–62, Cl. 117—71.

Wong, Robert, and B. D. Wise, to Owens-Corning Fiberglas Corp. Surface treated glass and similar fibers. 3,056,-705, 10–2–62, Cl. 154—43.

Woo, Way D., to Minneapolis-Honeywell Regulator Co. Data storage and transfer apparatus. 3,059,227, 10–16–62, Cl. 340—174.

Woock, Herbert J. Apparatus for hard facing metallic articles. 3,056,383, 10–2–62, Cl. 118—58.
Woock, Herbert J. Method of hard facing metallic articles. 3,056,693, 10–2–62, Cl. 117—102.
Wood, Arthur G., to Permuta Closures Ltd. Stoppers. 3,057,502, 10–9–62, Cl. 215—47.
Wood, Barrie : *See*—
Bennett, John B., Bream, Hadley, and Wood. 3,056,845.
Gasson, Edward J., Hadley, and Wood. 3,031,500.
Wood, Benjamin F., Jr. : *See*—
Szemplak, Jerome C., Ekstrom, Von Uffel, Horley, and Wood. 3,051,965.
Wood, Bobby G., to Ethyl Corp. Vacuum generation. 3,045,897, 7–24–62, Cl. 230—232.
Wood, Charles D., and W. E. Briggs, to General Electric Co. Leak detector. 3,036,457, 5–29–62, Cl. 73—40.5.
Wood, Charles P., Jr. Pumping apparatus for refrigerator systems. 3,067,590, 12–11–62, Cl. 62—335.
Wood, Charles R. Carrying case and seat. 3,051,540, 8–28–62, Cl. 312—235.
Wood Conversion Co. : *See*—
Edwards, Kenneth N. 3,053,714.
Rubin, Morris M., and Woup. 3,054,538.
Thomas, George W. 3,042,577.
Valsvik, Donald J. 3,066,775.
Wood, David D. : *See*—
Schroeder, Robert C. 3,066,620.
Schroeder, Robert C., and Wood. 3,063,387.
Wood, Donald C. : *See*—
Diamond, William J., Levin, and Wood. 3,023,132.
Wood, Earl H., to Research Corp. Apparatus for determining percentage oxygen-saturation of blood. 3,029,682, 4–17–62, Cl. 88—14.
Wood, Edward L. : *See*—
Aske, Charles B., Jr., and Wood. 3,034,834.
Wood Electric Corp. : *See*—
Brackett, Lawrence W. 3,036,178.
Wood, Morris B. 3,021,404.
Wood Electro Process Co. : *See*—
Wood, Harold P. 3,031,767.
Wood, Ernest C., 30% to A. M. Brown and 30% to R. G. Le Vaux. Ligature-tier. 3,023,204, 5–8–62, Cl. 128—326.
Wood, Ernest C., 30% to A. M. Brown and 30% to R. G. Le Vaux. Ligature-tier. 3,040,747, 6–26–62, Cl. 128—326.
Wood, Everett N., and P. R. Viñan, to Pettibone Mulliken Corp. Oscillation height gauge. 3,055,501, 9–25–61, Cl. 209—416.
Wood, Fenton M., to Tuboscope Co. Radioactive pipe thickness measurement. 3,023,312, 2–27–62, Cl. 250—52.
Wood Flong Corp. : *See*—
Millington, Ralph B., and Cappellino. 3,061,897.
Wood, Fred J. Sewage treating apparatus. 3,053,390, 9–11–62, Cl. 21—195.
Wood, Frederick H., Jr. : *See*—
Stutske, William A., and Wood. 3,019,559.
Wood, G. H., and Co. Ltd. : *See*—
Wood, Geoffrey H. 3,028,055.
Wood, Gar, Industries, Inc. : *See*—
Coleman, Gerald W., and Gwinn. 3,044,644.
Grove, Earl I. 3,065,290.
Gwinn, Joseph M., Jr., O'Brien, and Shireman. 3,031,779.
Hicks, Willie G. 3,037,807.
McCarthy, John. 3,032,216.
Mulhern, William A. 3,022,112.
Mulhern, William A. 3,037,816.
Spisak, Edward G. 3,037,817.
Wreford, John S. 3,041,408.
Wood, Garfield A., Jr. Fishing reel. 3,017,135, 1–16–62, Cl. 242—84.54.
Wood, Garfield A., Jr. Reciprocating drive mechanism for spinning reel. 3,033,486, 5–8–62, Cl. 242—84.21.
Wood, Geoffrey H., to G. H. Wood and Co. Ltd. Operating devices for aerosol dispensers. 3,028,055, 4–3–62, Cl. 222—180.
Wood, George F. L. : *See*—
Murphy, Cornelius J., Jr., and Wood. 3,021,214.
Wood, George L., and W. M. Wistrom, to Western Tool and Stamping Co. Turf edger. 3,055,438, 9–25–62, Cl. 172—15.
Wood, George M., to Texaco Inc. Subsurface surveying. 3,021,426, 2–13–62, Cl. 250—43.5.
Wood, George R., and J. I. Tone. Motocycle stand. 3,039,792, 6–19–62, Cl. 280—302.
Wood, Harold P., to Wood Electro Process Co. Method of drying lumber. 3,031,767, 5–1–62, Cl. 34—1.
Wood, Herbert H. : *See*—
Baugh, Francis H., Jones, and Wood. 3,063,007.
Jones, Elwyn D., and Wood. 3,037,162.
Wood, Herbert H., to Thomas Walker Ltd. Fastening devices for wearing apparel. 3,041,698, 7–3–62, Cl. 24—227.
Wood, Homer J. : *See*—
Le May, Dan B., Parker, Paul, Silver, Stein, and Wood. 3,060,686.
Wood, Jack : *See*—
Olpin, Henry C., Wood, and Savory. 3,069,219.
Wood, James Q. : *See*—
Pennington, Edward N., Dye, Brown, and Wood. 3,038,788
Pollock, Lyle W., and Wood. 3,018,171.
Wood, James Q., to Phillips Petroleum Co. Bituminous protective coating and method of use. 3,050,484, 8–21–62, Cl. 260—28.5.
Wood, James R. : *See*—
Hall, Eddie T., Newton, and Wood. 3,042,304.
Heineck, Arthur W., Jr., and Wood. 3,064,895.
Wood, John A., to Allis-Chalmers Mfg. Co. Clutch lockout. 3,063,528, 11–13–62, Cl. 192—13.
Wood, John, Co. : *See*—
Ashley, Robert H. 3,035,555.
Wood, John F. : *See*—
Rasmussen, Svein B., and Wood. 3,067,613.
Wood, John F., to Electro-Voice, Inc. Phonograph pickup. 3,056,860, 10–2–62, Cl. 179—100.41.
Wood, John F., to Electro-Voice, Inc. Transducer power supply for oscillators. 3,056,932, 10–2–62, Cl. 331—185.
Wood, John F., to Electro-Voice, Inc. Phonograph pickup cartridge. 3,057,971, 10–9–62, Cl. 179—100.41.
Wood, John F., to Electro-Voice, Inc. Electromechanical transducer. 3,060,280, 10–23–62, Cl. 179—100.41.
Wood, John F., and J. C. Wirth, to Electro-Voice, Inc. Tachometer. 3,046,481, 7–24–62, Cl. 324—69.
Wood, John G., to Hughes Aircraft Co. Pyrometer. 3,057,200, 10–9–62, Cl. 73—355.
Wood, John L., to West Virginia Pulp and Paper Co. Rotary pressure joints and rotary drum internal assemblies. 3,034,224, 5–15–62, Cl. 34—124.
Wood, John M. L. : *See*—
Gordon, George A. D., Taylor, and Wood. 3,050,988.
Wood, Joseph D., to I-T-E Circuit Breaker Co. Face wound blowout coil. 3,070,681, 12–25–62, Cl. 200—147.
Wood, Joseph D., P. G. Smith, and W. A. Carter, to I-T-E Circuit Breaker Co. Magnetic assists for low current arcs. 3,061,676, 9–13–62, Cl. 200—147.
Wood, Kenneth N. Brake fluid can. 3,039,501, 6–19–62, Cl. 141—352.
Wood, Lawrence A. : *See*—
Herrmann, John A., Davis, Hickey, Wood, and Rauhauser. 3,066,273.
Wood, Lorin A., to Douglas Aircraft Co., Inc. Rotating shaft seal. 3,048,413, 8–7–62, Cl. 277—95.
Wood, Manton. Sidewalk edger. 3,065,801, 11–27–62, Cl. 172—13.
Wood, Morris B., to Wood Electric Corp. Heat responsive wire controlled overload circuit breaker. 3,021,404, 2–13–62, Cl. 200—116.
Wood, Morris E., to Higbie Mfg. Co. Spinning reel. 3,029,040, 4–10–62, Cl. 242—84.2.
Wood Newspaper Machinery Corp. : *See*—
Campbell, Leonard, and Peterson. 3,039,714.
Peterson, Albert L. 3,061,227.
Tollison, Paul L., and Ricards. 3,052,933.
Worthington, Emory W., and Vogel. 3,020,042.
Worthington, Emory W., and Vogel. 3,040,324.
Wood, Paul R., to United States Rubber Co. Composition comprising asphalt and mixture of resins and method of preparing same. 3,042,635, 7–3–62, Cl. 260—5.
Wood, Paul W., to General Motors Corp. Multivibrator controlled oscillator. 3,034,070, 5–8–62, Cl. 331—56.
Wood, Prentice J. : *See*—
Forrer, Homer W., and Wood. 3,064,877.
Wood, Prentice J., to The Mead Corp. Article carrier. 3,064,871, 11–20–62, Cl. 229—15.
Wood Processes, Oregon Ltd. : *See*—
Chapman, Ralph. 3,028,293.
Chapman, Ralph. 3,061,878.
Wood, Robert D., to General Time Corp. Shaft coupler. 3,057,647, 10–9–62, Cl. 287—110.
Wood, Robert M., to Sylvania Electric Products Inc. Junction type semiconductor triode. 3,066,249, 11–27–62, Cl. 317—235.
Wood, Russell E. Small craft mooring and dockage facility. 3,060,884, 10–30–62, Cl. 114—230.
Wood, Sidney W. H. : *See*—
Ralph, Harold C. A., and Wood. 3,035,793.
Wood Specialty Products, Inc. : *See*—
Jorgensen, Robert A. 3,033,283.
Wood, Stuart K. : *See*—
Bergman, Burton K., Eisenhart, Opsahl, and Wood. 3,051,280.
Wood, Theodore C., to United States of America, Air Force. System for controlling unwanted received radar signals. 3,031,656, 4–24–62, Cl. 343—5.
Wood, Thomas F. : *See*—
Kitchens, Garry C., and Wood. 3,057,914.
Wood, Thomas M. N., to Standard-Thomson Corp. Flexible tube forming machine. 3,015,354, 1–2–62, Cl. 153—73.
Wood Treating Chemicals Co. : *See*—
Morriss, Reuben M., Jr., and Van Allen. 3,061,508.
Wood, Wilburn L., to Ripon Corp. Display and storage stand. 3,028,212, 4–3–62, Cl. 312—275.
Wood, William H., to Ken-Lab. Inc. Dry sanitary closet. 3,059,597, 10–23–62, Cl. 110—9.
Wood, William P. Water saving device for water closets. 3,026,536, 3–27–62, Cl. 4—57.
Wood, William P., to General Motors Corp. Convertible seat construction. 3,052,499, 9–4–62, Cl. 297—64.
Woodall-Duckham Construction Co. Ltd. : *See*—
Burridge, Frederick J., and Waddington. 3,066,809.
Horsfall, Timothy E. S. 3,017,622.
Maloy, John. 3,063,802.
Randell, Geoffrey E. C., and Holme. 3,037,227.
Randell, Geoffrey E. C., and Whitworth. 3,049,738.
Randell, Geoffrey E. C., Whitworth, and Holme. 3,056,699.

Woodall, Edward L., Jr., and G. E. Reinker, to General Electric Co. Glass composition. 3,047,410, 7–31–62, Cl. 106—53.

Woodall Industries, Inc.: *See*—
Berridge, Leslie J., and Fischer. 3,032,371.
Stahl, Lloyd E. 3,042,446.

Woodard, Dudley H.: *See*—
Allen, Lloyd R., and Woodard. 3,069,387.

Woodard, Geoffrey D. L. and M. W., to Hercules Powder Co. Anthelmintic compositions containing diethyltoluamide and method of use. 3,038,836, 6–12–62, Cl. 167—53.

Woodard, George W., and G. H. Merkle, to The Dow Chemical Co. Composition of hydraulic cement and polyvinyl acetate and use thereof. 3,058,520, 10–16–62, Cl. 166—31.

Woodard, John S.: *See*—
Brandt, Jay E. 3,061,245.

Woodard, Marie W.: *See*—
Woodard, Geoffrey D. L. and M. W. 3,038,836.

Woodberry, Norman T.: *See*—
Reynolds, Walter F., Jr., and Woodberry. 3,019,157.

Woodbridge, Joseph E., to Atlantic Refining Co. Stabilization of aromatic diamines. 3,068,289, 12–11–62, Cl. 260—578.

Woodbridge, Joseph E., and F. R. Lawrence, to The Atlantic Refining Co. Preparation of oil soluble sulfonates. 3,030,-410, 4–17–62, Cl. 260—504.

Woodburn, Wilton A.: *See*—
Hill, Harry N., Clark, and Woodburn. 3,051,217.

Woodbury, Paul C. Anti-clogging sliver feeding and coiling apparatus. 3,035,311, 5–22–62, Cl. 19—159.

Woodbury, William W.: *See*—
Haanstra, John W., Huag, Lesser, Stevens, and Woodbury. 3,026,036.

Woodcock, Charles A., to Stewart-Warner Corp. Lamp mounting structure. 3,025,390, 3–13–62. Cl. 240—41.5.

Woodcock, Charles A., to Stewart-Warner Corp. Headlamp assembly. 3,036,208, 5–22–62, Cl. 240—90.

Woodcock, Charles A., to Stewart-Warner Corp. Lamp assembly. 3,066,218, 11–27–62, Cl. 240—,16.

Woodcock, Donald N., and K. E. Streeter, to The Dow Chemical Co. Seal. 3,069,176, 12–18–62, Cl. 277—74.

Woodcock, Edward C., A. P. Cauwe, and J. A. Debackere, to Gevaert Photo-Producten N.V. Photographic processing device. 3,067,920, 12–11–62, Cl. 226—189.

Woodcock, Raymond, to Associated Electrical Industries Ltd. Waveguide load. 3,036,280, 5–22–62, Cl. 333—22.

Woodcock, Raymond, to Metropolitan-Vickers Electrical Co. Ltd. Heads for magnetic storage drums. 3,041,612, 6–26–62, Cl. 346—74.

Woodell, Rudolph: *See*—
Seney, John S., and Woodell. 3,052,268.

Woodell, Rudolph, to E. O. du Pont de Nemours and Co. Process and apparatus for wet spinning slub yarn. 3,042,-482, 7–3–62, Cl. 18—54.

Woodell, Rudolph, to Beaunit Mills, Inc. Crimpable regenerated cellulose fibers and yarn. 3,050,823, 8–28–62, Cl. 28—82.

Wooderson, Thomas R., III. Automatic firing mechanism. 3,026,777, 3–27–62, Cl. 89—149.

Woodfield, Vinson L. Boat construction. 3,016,864, 1–16–62, Cl. 114—66.5.

Woodfin, Edward J.: *See*—
Davenport, Rodney B., and Woodfin. 3,030,790.

Woodford, Joseph C. Vacuum breaker. 3,023,767, 3–6–62, Cl. 137—218.

Woodford Mfg. Co.: *See*—
Noland, Wayne B. 3,043,556.
Noland, Wayne B. 3,061,125.
Noland, Wayne B., and Breneman. 3,070,116.

Woodget, Laurence L.: *See*—
Kennard, Olga, and Woodget. 3,028,496.

Woodhead, Daniel Co.: *See*—
Stoll, Russell F. 3,053,494.

Woodhead, James S., and J. E. Worthington. Thermosetting material. 3,046,146, 7–24–62, Cl. 106—38.5.

Woodhouse, William T., Jr. Index tab holder. 3,062,217, 11–6–62, Cl. 129—16.7.

Woodhull, William M.: *See*—
Stern, Marvin A., and Woodhull. 3,066,195.

Woodhull, William M., to General Dynamics Corp. Directional coupling network. 3,020,351, 2–6–62, Cl. 179—15.

Woodin, Elmer A., to Bell Telephone Laboratories, Inc. Electronic switching network. 3,027,427, 3–27–62, Cl. 179—18.

Wooding, Walter H., R. D. Thomas, Jr., and J. E. Norcross, to Arcos Corp. Articulated wing shoe for the electroslag and electrogas welding equipment. 3,046,386, 7–24–62, Cl. 219—126.

Woodings, Robert T. Couplings for drill rods. 3,032,360, 5–1–62, Cl. 287—108.

Woodings-Verona Tool Works: *See*—
Skowron, Edmund A. 3,051,521.

Woodland Electronics Co., Inc.: *See*—
Fisher, Michael, and Baseil. 3,068,318.

Woodland, Norman J., to International Business Machines Corp. High-speed column-by-column reading device. 3,052,405, 9–4–62, Cl. 235—61.11.

Woodle, Robert A., to Texaco Inc. Serial reforming of hydrocarbons. 3,017,344, 1–16–62, Cl. 208—65.

Woodley, James M., to Dido Lures, Inc. Bait harness assembly. 3,046,689, 7–31–62, Cl. 43—42.24.

Woodley, James M., to Dido Lures, Inc., Attractor mounting for fishhook. 3,046,690, 7–31–62, Cl. 43—42.38.

Woodley, Ray. Fishing device. 3,060,616, 10–30–62, Cl. 43—17.

Woodling, George V. Temperature and moisture control devices. 3,053,515, 9–11–62, Cl. 257—282.

Woodlock, Paul B., J. F. Santimauro, and V. C. Vesce, to Allied Chemical Corp. Preparation of quinacridone pigments. 3,020,279, 2–6–62, Cl. 260—279.

Woodman Charles R., to United Shoe Machinery Corp. Assembling and upper shaping machines. 3,038,182, 6–12–62, Cl. 12—1.

Woodman Co., Inc., The: *See*—
Henry, Nelson R. 3,025,920.

Woodring, William B.: *See*—
Miller, Charles E., Robinson, and Woodring. 3,055,301.

Woodruff, Charles R., 50% to Terminal Drilling and Production Co. Hole enlarger. 3,016,099, 1–9–62, Cl. 175—344.

Woodruff, Harold B.: *See*—
Folkers, Karl A., and Woodruff. 3,066,080.

Woodruff, Howard C. Mixed acrylic polymers carrying glycidyl and carboxyl groups. 3,052,659, 9–4–62, Cl. 260—80.5.

Woodruff, Joseph B.: *See*—
Hayes, Hubert G., and Woodruff. 3,023,778.

Woodruff, Joseph B., to Hayes Engineers (Leeds) Ltd. Hydraulic stopping or tracing valve units. 3,024,808, 3–13–62, Cl. 137—622.

Woodruff, Lee B.: *See*—
Hammerstrom, Henry H., and Woodruff. 3,030,534.

Woodruff, Maurice D., to The Bauer Bros. Co. Vacuum receiver and separator. 3,019,901, 2–6–62, Cl. 209—211.

Woodruff, Roy P. Deodorant dispenser. 3,061,842, 11–6–62, Cl. 4—225.

Woodruff, Truman O., to General Electric Co. Lower pump frequency maser. 3,054,065, 9–11–62, Cl. 330—4.

Woods, Allen, 10% to J. Hill, 20% to R. Holbrook, and 19% to J. P. Hanrahan. Tobacco leaf harvester. 3,059,-401, 10–23–62, Cl. 56—27.5.

Woods, Calvin R.: *See*—
Neelands, Lewis J., and Woods. 3,035,231.

Woods, Elvin L., to Ford Motor Co. Magnetic memory device. 3,056,118, 9–25–62, Cl. 340—174.

Woods, Elvin L., to Ford Motor Co. Magnetic drive. 3,060,321, 10–23–62, Cl. 307—88.

Woods, Ernest L. Boat mooring device. 3,019,759, 2–6–62, Cl. 114—230.

Woods, George: *See*—
Ensign, Robert H., Cardozo, Woods, and Immermann. 3,015,899.

Woods Hole Oceanographic Institution: *See*—
Hersey, John B., and Knott. 3,065,815.

Woods, John E., to Standard-Thomson Corp. Actuator. 3,045,918, 7–24–62, Cl. 236—34.

Woods, John T.: *See*—
Beckett, Leo G., and Woods. 3,022,550.

Woods, John W. Plow depth indicator. 3,045,355, 7–24–62, Cl. 33—185.

Woods, Joseph R.: *See*—
Daily, Arthur M., and Woods. 3,069,598.

Woods, Marquis A. Cargo bracing device. 3,062,157, 11–6–62, Cl. 105—369.

Woods, Robert G. Predetermined torque release wrench. 3,016,773, 1–16–62, Cl. 81—52.4.

Woods, Ross L., to Ventco, Inc. Method of making a keyed hub. 3,037,276, 6–5–62, Cl. 29—512.

Woods, Stephen, to Ford Motor Co. Carburetor float valve. 3,062,231, 11–6–62, Cl. 137—423.

Wood's, T. B., Sons Co.: *See*—
Williams, William A., and Nuernberger. 3,015,965.

Woods, Warren W.: *See*—
Terry, Billy W., Sias, and Woods. 3,067,151.

Woods, William C., to Sylvania Electric Products Inc. Magnetic conveying apparatus. 3,015,394, 1–2–62, Cl. 209—222.

Woods, William E., to Radio Corp. of America. Electrical information conversion system. 3,037,203, 5–29–62, Cl. 343—11.

Woods, William G.: *See*—
Brotherton, Robert J., and Woods. 3,057,905.

Woods, William G., and M. L. Iverson, to United States Borax & Chemical Corp. Preparation of a fonmed resin from alkoxyaryloxy-aluminum compounds. 3,055,847, 9–25–62, Cl. 260—2.5.

Woods, William M.: *See*—
Whatley, Marvin E., and Woods. 3,052,361.

Woodside, Frank G.: *See*—
McQuire, George E., Uren, and Woodside. 3,023,914.

Woodson Marine Ltd.: *See*—
Harrison, Charles H. 3,070,060.

Woodson, Thomas T., G. A. Martinek, and J. F. Macias, to Waste King Corp. Waste disposal device with sound insulation. 3,044,715, 7–17–62, Cl. 241—100.5.

Woodsum, Sidney P.: *See*—
Fuller, Harrison W., Woodsum, Darou, and Ledin. 3,039,102.

Woodward, Bernard, Jr., ½ to A. W. Griswold. Parts elevator feeder and selector machine. 3,070,210, 12–25–62, Cl. 198—33.

Woodward, Cyril H. T., and R. N. De Floria, to Southworth Machine Co. Moveable platform with lift and turnover mechanism. 3,027,031, 3–27–62, Cl. 214—652.

Woodward, Eugene E., to Kerr-McGee Oil Industries, Inc. Bitumen-in-water emulsions. 3,036,015, 5–22–62, Cl. 252—311.5.

Woodward, Foster R., to The Taylor-Winfield Corp. Limited overlap travel-type series strip welder. 3,017,495, 1–16–62, Cl. 219—82.
Woodward, Foster R., to The Taylor-Winfield Corp. Reversible platen mounting for travel type strip welders. 3,021,415, 2–13–62, Cl. 219—82.
Woodward, Frank H. Pallets. 3,039,726, 6–19–62, Cl. 248—120.
Woodward, George E.: *See* Leathers, Joel M., and Woodward. 3,051,747.
Woodward Governor Co.: *See*— Gillespie, Sidney L. 3,049,867.
Parker, George E. 3,027,463.
Plummer, Harland C. 3,019,602.
Woodward, Harry W., W. A. Smith, and J. H. Kruger, to The B. F. Goodrich Co. Flexible diaphragm for storage tank and its attaching means. 3,028,040, 4–3–62, Cl. 220—85.
Woodward, Inc.: *See*— Hitchcock, Edward M. 3,035,880.
Woodward, Kenneth E. Fluid amplifier. 3,053,276, 9–11–62, Cl. 137—597.
Woodward, Robert B.: *See*— Blout, Elkan R., Green, Rogert, Simon, and Woodward. 3,049,107.
Woodward, Theodore M. Conveyor for parking cars and the like. 3,062,358, 11–6–62, Cl. 198—154.
Woodward, William H.: *See*— Robinson, Kenneth A., and Woodward. 3,046,468.
Robinson, Kenneth A., Woodward, and Howard. 3,032,-668.
Woodward, William S.: *See*— Brown, Edwards, Woodward, and Wade. 3,060,612.
Woodward, William W., to Alton Box Board Co. Container for gaskets for refrigerator doors. 3,044,616, 7–17–62, Cl. 206—85.
Woodworth, John A., R. J. Reeve, and G. I. Noah, to Adams Rite Mfg. Co. Sliding door lock. 3,019,043, 1–30–62, Cl. 292—113.
Woodworth, N. A., Co.: *See*— Howart, George. 3,028,159.
Howart, George and E. F. 3,025,736.
Howart, George and E. F. 3,025,737.
Howart, George, and Toth. 3,069,181.
Woodworth, William H., to United States of America, Navy. Horizontal sweep circuit for cathode-ray tube. 3,041,470, 6–26–62, Cl. 307—88.5.
Woodzick, Bruno J., ⅓ to Gadget-Of-The-Month Club, Inc. Modified hand warmer. 3,057,342, 10–9–62, Cl. 126—208.
Woog, John F.: *See*— Barnes, Llewellyn T. 3,023,745.
Barnes, Llewellyn T. 3,058,042.
Barnes, Llewellyn T. 3,068,884.
Barnes, Llewellyn T. and C. T. 3,033,181.
Woog, Philippe G., to Etablissements Aesup. Watertight sealing means for electric toothbrushes and the like. 3,060,474, 10–30–62, Cl. 15—22.
Woolard, Thomas L.: *See*— Speca, Ellio J., and Woolard. 3,024,003.
Wooldridge, Darrel M.: *See*— Wooldridge, Mack. 3,031,175.
Wooldridge, Dean E.: *See*— Drukey, Donald L., Irving, and Wooldridge. 3,063,040.
Wooldridge, Mack, ½ to D. M. Wooldridge. Ripper mounting for twin crawlers. 3,031,175, 4–24–62, Cl. 262—8.
Wooldridge, William D., 50% to J. R. Head. Dispenser for disinfectant and the like. 3,019,451, 2–6–62, Cl. 4—228.
Wooley, Francis C. Hydraulic anchor expander. 3,056,477, 10–2–62, Cl. 189—92.
Woolf, Cyril: *See*— Anello, Louis G., Gordon, and Woolf. 3,062,902.
Cunningham, William J., Sweeney, and Woolf. 3,047,639.
Neill, Ronald H., and Woolf. 3,047,641.
Smith, Lee B., and Woolf. 3,043,889.
Stahl, Richard F., and Woolf. 3,049,572.
Stahl, Richard F., and Woolf. 3,049,573.
Sweeney, Richard F., and Woolf. 3,018,306.
Sweeney, Richard F., and Woolf. 3,047,640.
Woolfe, Gerald: *See*— Oxley, Peter, Bristow, Housley, Woolfe, and Wilmshurst. 3,023,386.
Oxley, Peter, Woolfe, Bristow, Fraser, Williams, and Wilmshurst. 3,032,555.
Woolford, Scott R.: *See*— Gray, Robert A., Jr., and Woolford. 3,042,965.
Woollenweber, William E., Jr., to Schwitzer Corp. Pressure control for turbosuperchargers. 3,044,683, 7–17–62, Cl. 230—116.
Woollenweber, William E., Jr., J. A. Hardy, and G. Paul, to Schwitzer Corp. Bearing structure. 3,056,634, 10–2–62, Cl. 308—78.
Woollett, Ralph S.: *See*— Parssinen, Edwin J., Rathbun, and Woollett. 3,054,084.
Woolley, Francis L., to United States of America, Navy. Slide rule trainer. 3,016,628, 1–16–62, Cl. 35—39.
Woolley, Kenneth C., to Tex-Tube, Inc. Pipe crimping apparatus. 3,019,520, 2–6–62, Cl. 29—234.
Woolley, Kenneth C., and I. W. Shaw, to Tex-Tube, Inc. Tube forming machine. 3,070,053, 12–25–62, Cl. 113—33.
Woolley, Lee A.: *See*— Bowman, Joe, and Woolley. 3,053,947.
Woolley, Lee A., to Kingston Products Corp. Appliance timer. 3,025,366, 3–13–62, Cl. 200—38.
Woolley, Lee A., to Kingston Products Corp. Construction for sequential timer shaft. 3,033,054, 5–8–62, Cl. 74—504.
Woolley, Wayne R., to Republic Steel Corp. Pavement joint assembly. 3,059,553, 10–23–62, Cl. 94—18.
Woolslayer, Homer J., C. Jenkins, C. D. Iddings, and G. I. Lynch, to Lee C. Moore Corp. Floating oil well drilling equipment. 3,053,311, 10–16–62, Cl. 61—46.5.
Woolslayer, Joseph R., and C. Jenkins, to Lee C. Moore Corp. Elevating ramp structure for vehicles. 3,026,970, 3–27–62, Cl. 187—8.72.
Woolslayer, Joseph R., and C. Jenkins, to Lee C. Moore Corp. Oil well derrick crown block. 3,042,377, 7–3–62, Cl. 254—190.
Woolston, Daniel D., M. N. Miraldi, W. H. Manning, and M. J. Aucremanne, to United States of America, Navy. Telemetering transmitter. 3,070,773, 12–25–62, Cl. 340—5.
Woolven, John L. Collapsible ornament. 3,060,609, 10–30–62, Cl. 41—11.
Wooster Brush Co., The: *See*— Davis, Howard C. 3,057,044.
Wooster, Philip A. Paper towel dispenser. 3,017,131, 1–16–62, Cl. 242—55.53.
Wooster, Philip A. Paper roll dispenser. 3,019,997, 2–6–62, Cl. 242—55.42.
Wooster, Philip A. Paper roll dispenser. 3,032,283, 5–1–62, Cl. 242—55.2.
Wooster, Philip A. Paper dispenser. 3,035,785, 5–22–62, Cl. 242—55.3.
Wooten, Willis C., Jr.: *See*— Coover, Harry W., Jr., and Wooten. 3,058,949.
Wooten, Willis C., Jr., and J. M. Grossman, to Eastman Kodak Co. Stabilized polymers of vinylidene chloride or vinyl chloride containing a sulfur compound and a tin compound. 3,063,963 11–13–62, Cl. 260—45.75.
Wootton, Gerald V.: *See*— Gilbert, Harry, and Wootton. 3,031,253.
Wootton, William R., to Babcock & Wilcox Ltd. Material handling plant. 3,020,225, 2–6–62, Cl. 204—193.2.
Worbois, Robert J., to Westinghouse Air Brake Co. Apparatus for remotely controlling operation of brake cylinder release valves on cars of railway trains. 3,053,597, 9–11–62, Cl. 303—69.
Worboys, Arthur F., to The Ever Ready Co. (Great Britain) Ltd. Flashlight optical system. 3,020,396, 2–6–62, Cl. 240—106.
Worcester Foundation for Experimental Biology: *See*— Gut, Marcel, and Dorfman. 3,061,606.
Schwenk, Erwin, and Gold. 3,060,205.
Worcester, Joseph A., to General Electric Co. Low current drain transistor amplifier. 3,064,202, 11–13–62, Cl. 330—29.
Worcester Tool & Stamping Co., Inc.: *See*— Magnuson, Paul G. 3,043,616.
Word, William W., Jr., to Armco Steel Corp. Multiple string tubing hanger constructions. 3,020,069, 2–6–62, Cl. 285—137.
Word, William W., Jr., to Armco Steel Corp. Multiple string tubing hangers. 3,042,427, 7–3–62, Cl. 285—140.
Word, William W., Jr., to Armco Steel Corp. Well head construction to accommodate plural tube strings. 3,062,-565, 11–6–62, Cl. 285—137.
Worden, Dale S., and J. Noker, to Sperry Rand Corp. Winch with single point delivery. 3,024,001, 3–6–62, Cl. 254—186.
Worden, Norbert P., to C. M. Hall Lamp Co. Resilient lamp Mounting. 3,065,542, 11–20–62, Cl. 240—90.
Wordsworth, Ronald W., to Rose Brothers (Gainsborough) Ltd. Packaging apparatus. 3,032,211, 5–1–62, Cl. 214—7.
Worel, Heinrich, and K. Torkar, to Peter Spence & Sons Ltd. and Deutsche Gold- und Silber-Schneideanstalt vormals Roessler. Process for the production of α-alumina from aluminum fluoride. 3,027,231, 3–27–62, Cl. 23—142.
Work, Erich W., to Bearon & Cadwell Mfg. Co. Pressure balanced condition responsive valve. 3,055,589, 9–25–62, Cl. 236—92.
Work, Lincoln T.: *See*— Langsetmo, Peder, Swanson, and Work. 3,038,672.
Work, Lincoln T. Cyclone classifier. 3,042,202, 7–3–62, Cl. 209—144.
Workman, Charles R., to Cooper Tire and Rubber Co. Method of assembling flexible insulators on bus bars. 3,049,801, 8–21–62, Cl. 229—450.
Workman, Ernest R. Banding machine. 3,041,962, 7–3–62, Cl. 100—26.
Workman, Woodrow I., to International Packings Corp. Seal. 3,052,476, 9–4–62, Cl. 277—174.
Works, William R.: *See*— Herschler, Robert J., Barton, and Works. 3,058,843.
Worland, Arthur, to Fielden Electronics Ltd. Switching circuits. 3,034,022, 5–8–62, Cl. 317—146.
World Wide Hellcopters, Inc.: *See*— Flint, Knute W. 3,017,138.
Worley, Norman G.: *See*— Taylor, Anthony J., and Worlepy. 3,070,536.
Worley, Marvin S., to Black, Sivalls & Bryson, Inc. Method and apparatus for dehydrating gas. 3,069,829, 12–25–62, Cl. 55—32.
Worley, Sidney J., to International Telephone and Telegraph Corp. Radio direction finding system. 3,050,728, 8–21–62, Cl. 343—119.

Worley, William E.: *See*—
Boler, Leonard J., and Worley. 3,021,670.
Worlidge, Ronald F., ⅓ to Scott Engineering (Bournemouth) Ltd. Improvements in or relating to gearboxes. 3,044,319, 7–17–62, Cl. 74—665.
Worlidge, Ronald F., and S. P. Basevi, to The Loewy Engineering Co. Ltd. Hydraulic accumulator. 3,043,341, 7–10–62, Cl. 138—31.
Worms, Karl-Heinz: *See*—
Blaser, Bruno, and Worms. 3,042,487.
Blaser, Bruno, and Worms. 3,061,406.
Strauss, Wennemar, Michael, and Worms. 3,035,991.
Wormser, Eric E.: *See*—
Brown, George L., Harren, Kine, and Wormser. 3,033,8,11.
Wormuth, Wilbur J., to General Electric Co. Low shrinkage silicone rubber composition containing a mixture of fillers. Re. 25,141, 3–27–62, Cl. 260—37.
Worn, David K., and E. J. Bradbury, to The International Nickel Co. Rings in compacting mills. 3,034,173, 5–15–62, Cl. 18—9.
Worn, George A., to The Lummus Co. Apparatus for effecting catalytic exothermic reactions. 3,041,150, 6–26–62, Cl. 23—289.
Worner, Gunther: *See*—
Opderbeck, Fritz, Trapp, and Worner. 3 021,253.
Worobey, Raymond G., and D. Errichiello, to Motorola, Inc. Portable radio receiver having interchangeable means for using single-use and rechargeable batteries. 3,070,748, 12–25–62, Cl. 325—492.
Worrall, Ashton L., Jr., to Falls Engineering & Machine Co. Apparatus for slitting sheet material. 3,043,174, 7–10–62, Cl. 82—81.
Worrel, Calvin J.: *See*—
Orloff, Harold D., Knapp, and Worrel. 3,060,121.
Worsham, James E., and R. W. Gilliom, to General Electric Co. Aerodynamic jet nozzle. 3,068,644, 12–18–62, Cl. 60—35.6.
Worsley, Michael: *See*—
Hindersinn, Raymond R., and Worsley. 3,055,849.
Worsley, Michael, and R. R. Hindersinn, to Hooker Chemical Corp. Reaction product of a polyisocyanate and a 1,4,5,6,7,7-hexahalobicyclo-(2.2.1)-5-heptene-2,3-dicarboxylic acid. 3,036,999, 5–29–62, Cl. 260—77.5.
Worsley, Michael, B. N. Wilson, and B. O. Schoepfle, to Hooker Chemical Corp. Polyurethane foam containing ethylene glycol antimonite or 1,2-propylene glycol antimonite or mixtures thereof. 3,054,760, 9–18–62, Cl. 260—2.5.
Worsley, Michael, and R. R. Hindersinn, to Hooker Chemical Corp. Halogen containing polyurethane foams and preparation of same. 3,055,850, 9–25–62, Cl. 260—2.5.
Worson, Lee, to Edoco Technical Products, Inc. Combined weakened plane joint former and waterstop. 3,023,681, 3–6–62, Cl. 94—18.
Worst, Marc T. Aircraft warning system. 3,053,932, 9–11–62, Cl. 178—6.
Worster, Norman G., to S. Smith & Sons (England) Ltd. Automatic gear change controls. 3,052,134, 9–4–62, Cl. 74—472.
Worswick, Bernard A., to Bailey Meters & Controls Ltd. Apparatus for detecting the presence or absence at a location of a body of liquid. 3,019,650, 2–6–62, Cl. 73—290.
Worswick, Bernard A., to Bailey Meter Co. Means for monitoring a flow of solid matter in divided form. 3,068,694, 12–18–62, Cl. 73—194.
Worth, Earl M.: *See*—
Hines, Paul J., and Worth. 3,045,200.
Worth, Francis C., to Adolph Gottscho, Inc. Marking apparatus. 3,022,724, 2–27–62, Cl. 101—27.
Worth, Francis C., to Gottscho, Adolph, Inc. Marking apparatus. 3,031,956, 5–1–62, Cl. 101—119.
Worth, Francis C., to Adolph Gottscho, Inc. Marking apparatus. 3,051,081, 8–28–62, Cl. 101—35.
Worth, Francis C., to Adolph Gottscho, Inc. Marking apparatus. 3,059,571, 10–23–62, Cl. 101—35.
Worth, Joseph. Electric lamp. 3,025,392, 3–13–62, Cl. 240—81.
Worth, Sidney V.: *See*—
Black, Isadore E., and Worth. 3,053,412.
Worthen, George B., and C. Jelinek, Jr., to The Western Union Telegraph Co. Photoelectric balanced modulator. 3,048,-702, 8–7–62, Cl. 250—211.
Worthing, Jurgen. Signal measuring apparatus. 3,063,009. 11–6–62, Cl. 324—123.
Worthing, Nicolas, to The Harland Engineering Co. Ltd. Polyphase slipring electric motors and control means therefor. 3,069,607, 12–18–62, Cl. 318—61.
Worthington Corp.: *See*—
Aronson, David. 2,045,437.
Atwood, Hubert C., Jr., and Williams. 3.043.229.
Berger, Richard K., Nicholas, Pickle, Soumerai, and Van Newenhoven. 3,033.009.
Camp, Clement W. 3,043,226.
Cook, Richard L. 3,042,368.
Gilman, Frederick C. 3,027,845.
Hilkemeier, Louis G. 3.059,818.
Hilkemeier, Louis G. 3,061,282.
Hill, Napoleon E. 3,067,316.
Hratt, Donald R. 3,021,814.
Jekat, Walter K. 3,034,701.

Worthington Corp.: *See*—Continued
Kauffmann, William M. 3,038,297.
Kauffmann, William M., and Carter. 3,046,965.
Macaluso, Charles A., and Davis. 3,069,070.
Moquin, Paul L., Nicholas, and Shaw. 3,061,177.
Nicholas, Andrew J. 3,050,237.
Nicholas, Andrew J., and Shaw. 3,061,176.
Nicholas, Andrew J., and Soumerai. 3,040,969.
Randall, Ross D. 3,069,126.
Randall, Ross D., and Baumann. 3,020,925.
Rothenberg, Jerome H., and Wright. 3,066,701.
Sebald, Joseph F., and Jones. 3,047,276.
Soumerai, Henri. 3,051,373.
Towle, Elton L. 3,024,730.
Walter, Hellmuth. 3,054,264.
Williams, John G. 3,033,120.
Zumbusch, Peter C. 3,051,090.
Worthington, Emory W. Inking mechanism for printing presses. 3,062,138, 11–6–62, Cl. 101—350.
Worthington, Emory W., and A. Vogel, to Wood Newspaper Machinery Corp. Running fold adjustment. 3,020,042, 2–6–62, Cl. 270—77.
Worthington, Emory W., and A. Vogel, to Wood Newspaper Machinery Corp. High speed stitcher. 3,040,324, 6–26–62, Cl. 1—7.
Worthington, John E.: *See*—
Woodhead, James S., and Worthington. 3,046,146.
Worthington, Robert L.: *See*—
Worthington, Eugene, and Worthington. 3,047,790.
Worthington, Roy E., to The Coe Mfg. Co. Apparatus for handling veneer. 3,061,065, 10–30–62, Cl. 198—20.
Wortman, Dennis S. Wild fowl decoy. 3,059,368, 10–23–62, Cl. 43—3.
Wortman, Herman B.: *See*—
Rugg, Harold H., and Wortman. 3,061,665.
Woskow, Marvin Z.: *See*—
Binning, Robert C., and Woskow. 3,042,197.
Erickson, Julius L., and Woskow. 3,061,649.
Wössner, Helex, to Fichtel & Sachs A.G. Hydropneumatic suspension unit. 3,033,556, 5–8–62, Cl. 267—64.
Wotiz, John H.: *See*—
Adams, Bobby F., and Wotiz. 3.052,734.
Bluestone, Henry, Schuldt, Wotiz, Entemann, and Huba. 3,037,058.
Wotiz, John H., to Diamond Alkali Co. 3,4-dibromoaniline nematocide. 3,027,297, 3–27–62, Cl. 167—30.
Wozniak, Raymond L., to Eastman Kodak Co. Infrared transmitting optical element. 3,033,701, 5–8–62, Cl. 117—33.3.
Wozniak-Rennek. Brush cleaning device. 3,058,134, 10–16–62, Cl. 15—38.
Wrabetz, Karl: *See*—
Berg, Fritz, Arndt, and Wrabetz. 3,046,895.
Wrage, Ehlert. Paint roller pan. 3,033,437, 5–8–62, Cl. 229—34.
Wragg, William R.: *See*—
Lee, Glyn E., and Wragg. 3,060,143.
Wragg, William R., and L. Bretherick, to May & Baker Ltd. Hypotensive compounds. 3,020,288, 2–6–62, Cl. 260—313.
Wrapmaster Corp.: *See*—
Parks, Merwin S. 3,031,817.
Wrathall, Leishman R., to Bell Telephone Laboratories, Inc. Regenerative pulse repeater. 3,065,297, 11–20–62, Cl. 178—70.
Wray, James, and G. B. Elliott, to The English Electric Co. Ltd. Hydraulic servo flying controls for aircraft. 3,058,-701, 10–16–62, Cl. 244—83.
Wrede, Kenneth W., and R. W. Elliott. Automatic telephone dialing system. 3,021,392, 2–13–62, Cl. 179—90.
Wreford, John S., to Gar Wood Industries, Inc. Fluid-cooled terminal for a flexible electrical conductor. 3,041,408, 6–26–62, Cl. 174—19.
Wren, Clyde E., and H. Danuser, to Danuser Machine Co. Scoop for an implement. 3,057,495, 10–9–62, Cl. 214—140.
Wreyford, Donald M., to Sinclair Research, Inc. Attenuator. 3,070,797, 12–25–62, Cl. 346—32.
Wrhen, Wilmer C.: *See*—
Smith, Peter M., and Wrhen. 3,068,963.
Wride, William J., to Phillips Petroleum Co. Recovery of olefin polymers from solution. 3,055,879, 9–25–62, Cl. 260—94.9.
Wright, Alexander M., to Chandler-Evans Corp. Fuel and speed control system for turbojet engine. 3,032,986, 5–8–62, Cl. 60—39.28.
Wright, Allen J. Anti-slip anti-mar ladder head. 3,062,319, 11–6–62, Cl. 182—108.
Wright, Alvia D., 25% to O. M. Johnson and 25% to D. W. Johnson. Tape folder. 3,029,073, 4–10–62, Cl. 270—86.
Wright Anderson (South Africa) Ltd.: *See*—
Van Wyk, Christian F. B. 3,056,266.
Wright, Benjamin H., to Maxwell Bros. Co. Machine for squaring-up carton flats or boots. 3,030,867, 4–24–62, Cl. 93—36.
Wright, Bryan: *See*—
Larson, Arne V., Marshek, Putzer, Schroeder, Wright, and Mann. 3,023,826.
Wright, Carl D., Jr., to Westinghouse Air Brake Co. Electropneumatic brake apparatus. 3,063,757, 11–13–62, Cl. 303—20.

Wright, Charles B., Jr., and M. M. Lilly, to Harold Brown Co. Retrievable gas lift apparatus. 3,053,323, 9–11–62, Cl. 166—224.
Wright, Charles D., to Minnesota Mining and Mfg. Co. Copolymers of diallyl barbituric acids and vinyl monomers. 3,057,829, 10–9–62, Cl. 260—77.5.
Wright, Charles E.: *See*—
Kinney, Edward S., and Wright. 3,059,163.
Wright Chemical Corp.: *See*—
Channabasappa, Kenkere C., and Bird. 3,036,305.
Wright, Clyde E., to The Ridge Tool Co. Tubing cutter. 3,022,575, 2–27–62, Cl. 30—102.
Wright, Colnan C.: *See*—
Johnson, Robert W., and Wright. 3,031,385.
Wright, David C., to The Falls Engineering & Machine Co. Cutting die support. 3,049,039, 8–14–62, Cl. 83—652.
Wright, David J.: *See*—
McNulty, John V., and Wright. 3,045,148.
Wright, Duane, to Burgess Micro Switch Co. Ltd. Alternate action switch mechanism. 3,045,501, 7–24–62, Cl. 74—142.
Wright, Ehrick H., to G. Mingle. Highway warning device. 3,060,406. 10–23–62, Cl. 340—31.
Wright, Elliott F.: *See*—
Rothenberg, Jerome H., and Wright. 3,066,701.
Wright, Ernest L., III, W. B. Smith, Jr., and R. L. Wayland, Jr., to Dan River Mills, Inc. Wash-fast water-repellent cotton fabric and method. 3,038,821, 6–12–62, Cl. 117—143.
Wright, Esmond P. G., to International Standard Electric Corp. Data-processing systems. 3,020,336, 2–6–62, Cl. 178—2.
Wright, Esmond P. G., A. D. Odell, and C. Parker, to International Standard Electric Corp. Electronic equipment practice. 3,015,755, 1–2–62, Cl. 317—101.
Wright, Esmond P. G., and J. D. Reynolds, to International Standard Electric Corp. Static electric switches. 3,024,-448, 3–6–62, Cl. 340—174.1.
Wright, Esmond P. G., and J. Rice, to International Standard Electric Corp. Intelligence storage equipment. 3,024,993, 3–13–62, Cl. 235—176.
Wright, Esmond P. G., D. A. Weir, R. C. P. Hinton, and B. Pozula, to International Standard Electric Corp. Data processing systems. 3,025,341, 3–13–62, Cl. 178—3.
Wright, Esmond P. G., and J. Rice, to International Standard Electric Corp. Equipment for performing a complex sequence of operations. 3,025,351, 3–13–62, Cl. 179—7.1.
Wright, Esmond P. G., and J. Rice, to International Standard Electric Corp. Electrical notation converting circuits. 3,039,689, 6–19–62, Cl. 235—155.
Wright, Esmond P. G., D. S. Ridler, and R. Grimmond, to International Standard Electric Corp. Intelligence storage equipment with independent recording and reading facilities. 3,048,827, 8–7–62, Cl. 340—174.
Wright, Esmond P. G., D. S. Ridler, and A. D. Odell, to International Standard Electric Corp. Storage of electrical information. 3,069,660, 12–18–62, Cl. 340—173.
Wright, Fay: *See*—
Ambley, Vernon C., Anderson, and Wright. 3,015,996.
Wright, Floyd H.: *See*—
Miller, Meritt L., and Wright. 3,052,117.
Wright, Floyd H. Current transformer. 3,028,539, 4–3–62, Cl. 323—61.
Wright, Francis X. Self-contained water-supply and cooling unit. 3,035,418, 5–22–62, Cl. 62—176.
Wright, George C.: *See*—
Stoner, George G., and Wright. 3,061,569.
Wright, George C., ½ to Unitone (Acoustic Tiles) Ltd. Fixing of acoustic tiles. 3,058,171, 10–16–62, Cl. 20—4.
Wright, George W., to Tokheim Corp. Dispenser frame and housing construction. 3,027,211, 3–27–62, Cl. 312—100.
Wright, George W., and R. A. Yenney, to Tokheim Corp. Printer and interlock structure for motor fuel dispenser. 3,044,662, 7–17–62, Cl. 222—30.
Wright, George W., and B. W. Foss, to Tokheim Corp. Vacuum responsive servo flow control valve. 3,047,011, 7–31–62, Cl. 137—490.
Wright, George W., and B. W. Foss, to Tokheim Corp. Booster pumping system. 3,052,378, 9–4–62, Cl. 222—63.
Wright, Gilbert M. Visual sound representation. 3,048,075, 8–7–62, Cl. 84—464.
Wright, Gordon P.: *See*—
Goldstaub, Henry H., and Wright. 3,036,187.
Wright, Harold A., to Koppers Co., Inc. Foamable styrene polymer particles containing isopentane as the blowing agent and method of making same. 3,027,334, 3–27–62, Cl. 260—2.5.
Wright, Harold A., to Koppers Co., Inc. Foamable styrene polymer particles containing isopentane as the blowing agent and method of making same. 3,027,335, 3–27–62, Cl. 260—2.5.
Wright, Harold A., to Koppers Co., Inc. Purification of polymers by treatment with naphthenic acids. 3,050,512, 8–21–62, Cl. 260—93.7.
Wright, Harold A., to Koppers Co., Inc. Foamable polystyrene particles containing isopentane and paraffinic hydrocarbon and process of making same. 3,060,138, 10–23–62, Cl. 260—2.5.
Wright, Harold H. Apparatus for separating well fluid. 3,064,410, 11–20–62, Cl. 55—168.
Wright, Harry T. Convertible fireplace stove heating units. 3,054,394, 9–18–62, Cl. 126—121.
Wright, Hazel H.: *See*—
Brandon, Clarence W. 3,045,749.
Wright, Hershel E. Floor cleaning device. 3,065,489, 11–27–62, Cl. 15—353.
Wright, Howard J.: *See*—
Bremmer, John F., Wright, and Westfall. 3,070,256.
Lombardi, Louis J., Wright, and Westfall. 3,030,321.
Lombardi, Louis J., Wright, and Westfall. 3,030,332.
Wright, Howard R.: *See*—
Lowther, Dwight R., and Wright. 3,054,232.
Wright, Howard W., Jr., and L. Spencer. Southwestern Engineering Co. Clamping means for material separators. 3,029,946, 4–17–62, Cl. 209—405.
Wright, Ian B.: *See*—
Silverstone, Joseph, and Wright. 3,029,982.
Wright, J. R., to Sun Oil Co. Electronic multiplier for fluid dispensers. 3,043,508, 7–10–62, Cl. 235—151.
Wright, J. Rondle, to Sun Oil Co. Fluid sampling valve. 3,017,772, 1–23–62, Cl. 73—422.
Wright, J. Rondle, to Sun Oil Co. Fluid sampling valve. 3,021,713, 2–20–62, Cl. 73—422.
Wright, J. Rondle, to Sun Oil Co. Heating system. 3,060,-301, 10–23–62, Cl. 219—39.
Wright, J. Rondle, to Sun Oil Co. Remote reading apparatus. 3,060,656, 12–18–62, Cl. 340—151.
Wright, James B., to Cersolsun Research Corp. Dual element fuse. 3,046,374, 7–24–62, Cl. 200—123.
Wright, James M., to Westinghouse Electric Corp. Hydrogen gauge. 3,040,561, 6–26–62, Cl. 73—23.
Wright, James R.: *See*—
Mertens, Edward W., and Wright. 3,026,266.
Wright, James R., to California Research Corp. Cationic bituminous emulsions. 3,032,507, 5–1–62, Cl. 252—311.5.
Wright, James R., to California Research Corp. Prevention of run-off in bituminous emulsions. 3,050,468, 8–21–62, Cl. 252—311.5.
Wright, James R., and E. W. Mertens, to California Research Corp. Asphalt emulsion. 3,052,639, 9–4–62, Cl. 252—311.5.
Wright, James R., and E. W. Mertens, to California Research Corp. Anionic bituminous emulsions. 3,062,829, 11–6–62, Cl. 252—311.5.
Wright, Jay L., and G. D. Petrie, to Midland-Ross Corp. Louver vane assembly. 3,060,832, 10–30–62, Cl. 98—40.
Wright, Jay L., L. N. Tenney, and A. A. Allen, to Wright Mfg. Co. Metering valve device for recirculating flowlines. 3,064,692, 11–20–62, Cl. 137—556.
Wright, Jerauld G., to Her Majesty the Queen in right of Canada, as represented by the Minister of National Defence. Master direction corrector. 3,062,437, 11–6–62, Cl. 35—61.
Wright, John B., to The Upjohn Co. N-alkanoylbenzenesulfonyl-N′-(cyclicamino) urea derivative. 3,041,331, 6–26–62, Cl. 260—239.
Wright, John B., to The Upjohn Co. Novel N-arylsulfonyl N′-(cyclic-amino) ureas and oral antidiabetic compositions containing said novel compounds. 3,063,903, 11–13–62, Cl. 167—65.
Wright, John F.: *See*—
Knox, William J., Jr., and Wright. 3,026,202.
Knox, William J., Jr., and Wright. 3,068,101.
Wright, John G., to The Auto-Soler Co. Fastener locating means. 3,017,635, 1–23–62, Cl. 1—19.
Wright, John G., to The Auto-Soler Co. Heel attaching means. 3,034,130, 5–15–62, Cl. 1—335.
Wright, John G. Heel stripping device. 3,044,084, 7–17–62, Cl. 12—50.5.
Wright, John H., to General Electric Co. Greases made by thickening silicone oils with silica and silica coated with octamethylcyclotetrasiloxane. 3,037,933, 6–5–62, Cl. 252—28.
Wright, John H., and C. V. Ohlson, to A. G. Spalding & Bros., Inc. Construction set. 3,069,806, 12–25–62, Cl. 46—25.
Wright, John W.: *See*—
Graham, Marvin M., and Wright. 3,052,264.
Wright, Joseph, to Dunlop Rubber Co. Ltd. Pneumatic tyres. 3,044,519, 7–17–62, Cl. 152—187.
Wright, Joseph E., Jr.: *See*—
Meli, Joseph P., Wright, Kittle, and Simpson. 3,068,717.
Wright, Leon W., and J. D. Brandner, to Atlas Chemical Industries, Inc. Process for producing isoidide. 3,023,-223, 2–27–62, Cl. 260—347.8.
Wright, Lloyd B. Fifth wheel assembly. 3,044,803, 7–17–62, Cl. 280—433.
Wright, Louis D. Map storage unit. 3,018,150, 1–23–62, Cl. 312—197.
Wright, Malor: *See*—
Leighton, Thomas C., and Wright. 3,060,829.
Wright, Malor, to Hycon Mfg. Co. Film processing applicator. 3,027,821, 4–3–62, Cl. 95—89.
Wright Mfg. Co.: *See*—
Wright, Jay L., Tenney, and Allen. 3,064,677.
Wright & McGill Co.: *See*—
Yeada, Victor. 3,038,682.
Yeada, Victor. 3,044,730.
Wright, Palmer W., B. A. Kozakiewicz, and A. F. Roche, to The Dow Chemical Co. Depigmenting polymeric compositions with aliphatic carboxylic acid settling aids. 3,043,785, 7–10–62, Cl. 260—2.3.
Wright, Paul C., and O. V. Chambers. Pipe line stopper. 3,049,333, 8–14–62, Cl. 251—158.

Wright, Peter M.: *See*—
Brandon, Percy S., and Wright. 3,070,794.
Wright, Peter M., and P. S. Brandon, to Marconi's Wireless Telegraph Co. Ltd. Frequency modulated radar systems. 3,054,104, 9–11–62, Cl. 343—14.
Wright Products, Inc.: *See*—
Falk, Harold W. 3,020,581.
Wright, R. G., Co., Inc.: *See*—
Faust, Francis S., and Edmunds. 3,070,104.
Wright Rain Ltd.: *See*—
Green, Alfred J. 3,033,469.
Wright, Robert J.: *See*—
Cushman, Clifford E., and Wrighton. 3,064,920.
Metcalfe, Kenneth A., and Wright. 3,032,432.
Metcalfe, Kenneth A., and Wright. 3,038,799.
Metcalfe, Kenneth A., and Wright. 3,038,914.
Wright, Robert L., Jr.: *See*—
Pitz, Franklin, and Wright. 3,040,224.
Wright, Ronald E., to The General Electric Co. Ltd. Arrangements for providing a representation in digital form of the relative position of a pair of relatively movable members. 3,066,286, 11–27–62, Cl. 340—347.
Wright, Theodore M. Mountings for picture frames or the like. 3,030,057, 4–17–62, Cl. 248—29.
Wright, Thomas C.: *See*—
Brady, Joseph M., and Wright. 3,060,349.
Wright, Wilbert H., to National Steel Corp. Lifting apparatus. 3,061,357, 10–30–62, Cl. 294—106.
Wright, Wilbur. Method and means for drying components in the making of asphalt. 3,054,193, 9–18–62, Cl. 34—31.
Wright, Wilbur. Portable asphalt plant lifting and supporting mechanism. 3,054,601, 9–18–62, Cl. 259—159.
Wright, William B., Jr., and H. J. Brabander, to American Cyanamid Co. N-substituted anilides and method of preparing the same. 3,016,382, 1–9–62, Cl. 260—294.
Wright, William B., Jr., and H. J. Brabander, to American Cyanamid Co. N-(carboxyaminoalkyl) carbanilates. 3,037,-047, 5–29–62, Cl. 260—471.
Wright, William B., Jr., and H. J. Brabander, to American Cyanamid Co. 1-(aralkyl, lower alkylamino lower alkyl), 1-phenyl, 3,3-dilower alkyl-ureas. 3,049,562, 8–14–62, Cl. 260—553.
Wright, William B., Jr., and H. J. Brabander, to American Cyanamid Co. Anilinoalkyl-ureas. 3,061,641, 10–30–62, Cl. 260—553.
Wright, William D.: *See*—
Lehmann, Ernest H., and Wright. 3,051,041.
Wright, William V., Jr., to Electro-Optical Systems, Inc. Electrical strain transducer. 3,049,685, 8–14–62, Cl. 338—2.
Wrightfield, Ralph C., to Curtis Companies Inc. Apparatus for securing rubber-like weather stripping. 3,027,629, 4–3–62, Cl. 29—235.
Wrighton, Robert J.: *See*—
Cushman, Clifford E., and Wrighton. 3,018,065.
Wrighton, Robert J., and C. E. Cushman, to Pacific Scientific Co. Control line regulator. 3,016,760, 1–16–62, Cl. 74—501.5.
Wrighton, Robert J., and C. E. Cushman, to Pacific Scientific Co. Control line regulator. 3,016,761, 1–16–62, Cl. 74—501.5.
Wrightway Engineering Co.: *See*—
Goodrie, Raymond T. 3,031,147.
Wrigley, Clifford C.: *See*—
Alsobrooks, Darriel L., and Wrigley. 3,061,048.
Wrigley, Clifford C., and J. D. Malloy, to General Motors Corp. Brake adjuster. 3,033,319, 5–8–62, Cl. 188—18.
Wrigley, Clifford C., and J. D. Malloy, to General Motors Corp. Disk brake. 3,044,578, 7–17–62, Cl. 188—72.
Wrigley, Walter, and C. S. Draper, to Research Corp. Method and apparatus for indicating the vertical. 3,015,-962, 1–9–62, Cl. 74—5.47.
Wrigley, Walter L. Multi-purpose wrench. 3,049,952, 8–21–62, Cl. 81—71.
Wrigley, Walter L. Ratchet tool. 3,056,442, 10–2–62, Cl. 145—75.
Wrinn, Gordon W.: *See*—
Buell, Richard W., Lobdell, and Wrinn. 3,034,813.
Wrobbel, Werner, to Firma Metabowerk Closs, Rauch & Schnizler K.G. Device for the working in stages of the surfaces of workpieces on a grinding or polishing train. 3,018,591, 1–30–62, Cl. 51—217.
Wroblewski, Edward J.: *See*—
Weidenhammer, James A., Wroblewski, Watkins, Culveyhouse, and Serenate. 3,034,782.
Wroblewski, Richard E.: *See*—
Hilger, Frederick B., and Wroblewski. 3,040,906.
Wroblewski, Theodore, and A. Zack, to Sylvania Electric Products Inc. Electromagnetic coils. 3,068,433, 12–11–62, Cl. 336—83.
Wrotnowski, Arthur C.: *See*—
Gillick, Thomas J., Jr., Hencken, and Wrotnowski. 3,050,193.
Gillick, Thomas J., Jr., and Wrotnowski. 3,064,820.
Gillick, Thomas J., Jr., Wrotnowski, and Hencken. 3,050,191.
Wszolek, Joseph: *See*—
Strom, Charles F., and Wszolek. 3,015,863.
Wszolek, Walter R.: *See*—
Benning, Calvin J., and Wszolek. 3,046,266.
Wszolek, Walter R., to W. R. Grace & Co. Ethylene polymerization. 3,017,403, 1–16–62, Cl. 260—94.9.
Wu, Bosco: *See*—
Whitney, William G., and Wu. 3,050,596.
Wu, Tse C., to E. I. du Pont de Nemours and Co. Composite fiber with reversible crimp. 3,038,238, 6–12–62, Cl. 28—82.
Wu, William I. L., to The Singer Mfg. Co. Signal generator utilizing plural oscillators with plural crystals. 3,070,754, 12–25–62, Cl. 331—49.
Wubbe, Henry J.: *See*—
Fox, Robert M., and Wubbe. 3,025,553.
Wubbe, Leo J., to The Anderson Co. Motion-transmitting device. 3,059,486, 10–23–62, Cl. 74—95.
Wucherer, Heinrich K. Carburetors. 3,066,922, 12–4–62, Cl. 261—41.
Wuczkowski, Othmar R.: *See*—
McNair, Lyle W., Bjork, and Wuczkowski. 3,065,324.
Wuczkowski, Othmar R., to Lindberg Engineering Co. Induction coil with split flexible insulating flange. 3,046,509, 7–24–62, Cl. 336—207.
Wuellner, Clarence R.: *See*—
Helvern, James O., and Wuellner. 3,068,843.
Wuerker, Ralph F.: *See*—
Baumgartner, David B. and S., and Wuerker. 3,065,640.
Wuest, Clemens. Valve tappet. 3,024,775, 3–13–62, Cl. 123—90.
Wuesthoff, Paul P., to Pandjiris Weldment Co. Welding manipulator with reciprocating boom. 3,031,566, 4–24–62, Cl. 219—125.
Wuhrin, Fernand. Cellulose wadding sheets for the lining of baby's napkins. 3,042,043, 7–3–62, Cl. 128—284.
Wuigk, Eugene E.: *See*—
Hunger, Richard H., and Wuigk. 3,038,265.
Hunger, Richard H., and Wuigk. 3,063,510.
Wulz, Stanley N., to Vector Mfg. Co. Modular circuit assembly. 3,029,368, 4–10–62, Cl. 317—101.
Wulff, Carl: *See*—
Dohr, Manfred, Wulff, and Werdelmann. 3,024,197.
Wulff, John, to The S. K. Wellman Co. Friction composition and method of making. 3,069,758, 12–25–62, Cl. 29—182.3.
Wulff Process Co.: *See*—
Coberly, Clarence J. 3,024,094.
Wulff, Sigurd, R. Henningsson, and L. Cassler, to Farming, Aktiebolaget. Device for attaching trailed vehicles or implements to a tractor. 3,062,561, 11–6–62, Cl. 280—405.
Wullenweber, Robert W., and R. Othon, to Pacific Semiconductors, Inc. Machine for straightening component leads. 3,044,528, 7–17–62, Cl. 153—32.
Wullschleger, August. Parking device. 3,069,029, 12–18–62, Cl. 214—16.1.
Wunderman, Irwin, to Hewlett-Packard Co. Voltage regulator and method. 3,040,241, 6–19–62, Cl. 323—66.
Wunz, Paul R., Jr., to Callery Chemical Co. Preparation of halodecaborane. 3,046,086, 7–24–62, Cl. 23—14.
Wuorio, Raymond E., to American Can Co. Tube rotating. 3,050,826, 8–28–62, Cl. 29—38.
Wuppermann, A. Measuring apparatus. 3,052,410, 9–4–62, Cl. 235—103.5.
Wurdack, William D. Centripetal disperser. 3,024,011, 3–6–62, Cl. 259—134.
Wurgaft, Robert L., to Citrus Equipment Corp. Fruit juicing machine. 3,060,984, 10–30–62, Cl. 146—3.
Wurlitzer Co., The: *See*—
Arsem, Alvan D., Osborne, Laurien, and Flateau. 3,069,958.
Bode, Harald E. W. 3,023,659.
Hoit, John E. 3,060,784.
Ippolito, Anthony C. 3,070,660.
McVetty, William S. 3,063,535.
Miessner, Benjamin F. 3,038,363.
Miessner, Benjamin F. 3,041,909.
Osborne, Fred H. 3,016,185.
Osborne, Fred H. 3,064,097.
Osborne, Fred H., Tuttle, and Riggs. 3,050,309.
Schwartz, Harold O. 3,058,381.
Schwartz, Harold O., and Wolgast. 3,056,327.
Thomas, Howard M., and Mellon. 3,042,173.
Wurmser, Alphons V., to Bell Telephone Laboratories, Inc. Torpedo control circuit. 3,031,998, 5–1–62, Cl. 114—23.
Wurn, Isadore T. Extension hand truck. 3,055,523, 9–25–62, Cl. 214—515.
Wurst, Otto: *See*—
Vogelmann, Ernst, and Wurst. 3,052,525.
Wurth, William A., Jr.: *See*—
Popeck, Stanley P., Dersch, and Wurth. 3,044,874.
Wurton Machine Co.: *See*—
Touton, Rush D. 3,016,903.
Württemberg Gaszahlerfabrik J. Braun & Co., G.m.b.H.: *See*—
Binder, Karl, and Holm. 3,020,761.
Württembergische Spindelfabrik G.m.b.H.: *See*—
Schurr, Hans, and Stahlecker. Re. 25,192.
Wurtz, Clifford H.: *See*—
Mann, Leonard J., and Wurtz. 3,031,859.
Wurtz, Clifford H., and E. C. Armentrout, to General Motors Corp. Refrigerator shelving. 3,033,636, 5–8–62, Cl. 312—298.
Wurzburg, Otto B.: *See*—
Rutenberg, Morton W., and Wurzburg. 3,061,551.
Wurzburg, Otto B., and L. H. Kruger, to National Starch and Chemical Corp. Method for producing a thermophile-free starch and the product thus produced. 3,058,853, 10–16–62, Cl. 127—70.

Wurzel, Hugo, to Waldes Kohinoor, Inc. Tools for handling split spring retaining rings. 3,041,712, 7–3–62, Cl. 29—229.
Wüst, Karl, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Process for the production of aliphatic ω amino carboxylic acids. 3,026,342, 3–20–62, Cl. 260—404.
Wustemann, Kurt: *See*—
Haüpt, Eugen, Leinhos, Rilk, Schubart and Wustemann, 3,033,079.
Wuster, Walter L.: *See*—
Goodier, George N., and Wuster. 3,056,078.
Wutzler, Horst: *See*—
Sauer, Edgar, Günther, and Wutzler. 3,045,570.
Sauer, Edgar, Wutzler, and Hahn. 3,045,568.
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Wyandotte Chemicals Corp.: *See*—
Behun, John D. 3,018,289.
Behun, John D. 3,068,231.
Damusis, Adolfas. 3,049,514.
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Damusis, Adolfas. 3,049,516.
Damusis, Adolfas, and Frisch. 3,049,513.
Duvall, Jacque L. 3,031,276.
Jackson, Donald R., and Lundsted. 3,036,118.
Jackson, Donald R., and Lundsted. 3,036,130.
Langdon, William K. 3,067,199.
Lundsted, Lester G. 3,022,335.
Paciorek, Kazimiera L. 3,067,264.
Patton, John T., Jr., Levis, and Langdon. 3,067,202.
Schaaf, Robert L. 3,036,105.
Trucker, Donald E. 3,067,201.
Weipert, Eugene A. 3,020,289.
Wyant, Gerald W. Musical towel dispenser. 3,037,415, 6–5–62, Cl. 84—95.
Wyart, John W., J. A. Vona, and R. R. Cunningham, to Celanese Corp. of America. Dialkyl sulfoxide in preparation of isocyanate-polyol adduct. 3,061,629, 10–30–62, Cl. 260—471.
Wyatt, Chester A. Exercising apparatus and method. 3,058,459, 10–16–62, Cl. 128—25.
Wyatt, Jack R. Fairlead for use in guiding cable. 3,070,355, 12–25–62, Cl. 254—134.3.
Wyatt, Kenneth W.: *See*—
Imthurn, Elmer R., and Wyatt. 3,039,366.
Wyatt & Kipper, Engineers, Inc.: *See*—
Kipper, George J. 3,056,487.
Wyatt, Leslie M., to United Kingdom Atomic Energy Authority. Nuclear reactor fuel elements. 3,030,293, 4–17–62, Cl. 204—193.2.
Wyatt, Theodore, to United States of America, Navy. Tether station. 3,053,481, 9–11–62, Cl. 244—17.17.
Wyatt, William J. Signal device for night fishing. 3,024,561, 3–13–62. Cl. 43—17.
Wyckoff, Albert C.: *See*—
Dimond, Thomas L., and Wyckoff. 3,031,135.
Wyckoff, Harold W., G. Oneal, Jr., and S. S. Starr, to American Viscose Corp. Binding device. 3,066,366, 12–4–62, Cl. 24—16.
Wyckoff, John L.: *See*—
Caprin, Conrad, Wyckoff, and Coe. 3,043,450.
Wyckoff, Ralph D.: *See*—
Coggeshall, Norman D., Doolen, and Wyckoff. 3,059,478.
Wydra, Anthony J. Radius gage. 3,046,670, 7–31–62, Cl. 33—178.
Wyer, Roy E. Automatic sifter and fan control means for combines. 3,061,096, 10–30–62, Cl. 209—26.
Wyeth, Nathaniel C.: *See*—
Daniels, Charles E., and Wyeth. 3,022,566.
Downing, Richard M., Fuller, Paddison, and Wyeth. 3,064 073.
Wygant, James C.: *See*—
Johnson, William K., and Wygant. 3,057,900.
Wygant, James C., to Monsanto Chemical Co. Carboxylated bisphenol compounds. 3,035,091, 5–15–62, Cl. 260—520.
Wygant, James F.: *See*—
Petkus, John J., and Wygant. 3,048,495.
Wygasch, Ewald, and R. Luehdemann, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of concentrated alkali solutions. 3,019,082, 1–30–62, Cl. 23—184.
Wykes, Gerald W.: *See*—
Tiley, Gerald L., Oldfield, and Wykes. 3,058,547.
Wylde, Joseph R., and J. G. N. Drewitt, to British Celanese Ltd. Process for crimping cellulose triacetate fibers. 3,022,545, 2–27–62, Cl. 19—66.
Wyle, Henry, to Sperry Rand Corp., Ford Instrument Co. Division. Run length encoder. 3,061,672, 10–30–62, Cl. 178—7.1.
Wylen, Joseph, to Burroughs Corp. Binary data transfer device. 3,041,581, 6–26–62, Cl. 340—172.5.
Wyler, Paul, and R. Kalichman, to Wyler Watch Corp. Wrist watch and bracelet construction. 3,039,263, 6–19–62, Cl. 58—88.
Wyler Watch Corp.: *See*—
Wyler, Paul, and Kalichman. 3,039,263.
Wylie, Laurence S. Garment hanger. 3,054,540, 9–18–62, Cl. 223—95.
Wylie, Martin. Load haul and unload trailer. 3,028,030, 4–3–62, Cl. 214—396.
Wylie, Robert D., to The Babcock & Wilcox Co. Low carbon ferritic stainless steel. 3,023,098, 2–27–62, Cl. 75—125.
Wyllie, Malcolm R. J.: *See*—
Henderson, James H., and Wyllie. 3,018,827.
Laird, William M., and Wyllie. 3,047,488.
Wyllie, Malcolm R. J., to Gulf Research & Development Co. In-situ combustion process for the recovery of oil. 3,057,403, 10–9–62, Cl. 166—2.
Wyllie, Malcolm R. J., to Gulf Research & Development Co. Selective fracturing process. 3,062,286, 11–6–62, Cl. 166—42.
Wyman, Burton A., and C. H. Burns, to Westinghouse Electric Corp. Pole top adapter for streetlighting transformer. 3,035,802, 5–22–62, Cl. 248—229.
Wyman, Charles G.: *See*—
Monteith, Victor S. C., and Wyman. 3,018,511.
Wyman, Chester F., to Ford Motor Co. Shock absorber. 3,062,331, 11–6–62, Cl. 188—88.
Wyman, John E.: *See*—
Pruett, Roy L., and Wyman. 3,053,629.
Wyman, John E., to Union Carbide Corp. Process for producing arene metal carbonyls. 3,060,213, 10–23–62, Cl. 260—438.
Wyman, John E., to Union Carbide Corp. Metal carbonyls. 3,067,011, 12–4–62, Cl. 23—203.
Wyman, Louis W. Travel aid for the blind. 3,051,097, 8–28–62, Cl. 104—247.
Wymore, Max L.: *See*—
Ebner, Walter P. 3,056,998.
Wynen, Russell W.: *See*—
Petix, Theodore A., Wynen, and Plummer. 3,054,499.
Wyner, Gerald E., and R. T. Lee; said Lee assor. to Jean-Ruth Products, Inc. Medicine spoon. 3,054,184, 9–18–62, Cl. 30—326.
Wyniger, Joseph: *See*—
King, Edward G., III. 3,016,129.
Wynn Development Ltd.: *See*—
Wynn, Edward D., and Longford. 3,042,954.
Wynn, Edward D., and C. G. Longford, to Wynn Developments Ltd. Window or windscreen wiper mechanisms. 3,042,954, 7–10–62, Cl. 15—250.24.
Wynn, Ted R. Sugar dispenser. 3,018,025, 1–23–62, Cl. 222—500.
Wynne, Edward C.: *See*—
McNab, John A. 3,064,947.
Olson, John A., and McNab. 3,053,510.
Wynne, James T. Time indicating device. 3,024,590, 3–13–62, Cl. 58—2.
Wynne, Leslie G.: *See*—
Benner, Winfield H., and Wynne. 3,031,582.
Wyrick, Joseph W., Jr. Automatic load leveling system for trailer dump truck beds. 3,041,111, 6–26–62, Cl. 298—1.
Wyrough, David J.: *See*—
Willison, Donald, and Wyrough. 3,024,919.
Willison, Donald, and Wyrough. 3,034,659.
Wyrough, David J., to National Castings Co. System for handling freight articles. 3,043,411, 7–10–62, Cl. 189—36.
Wyse, Wilbur M., to Bil-Jax, Inc. Brace lock for modular scaffolding. 3,017,208, 1–16–62, Cl. 287—53.5.
Wysocki, Kazmier: *See*—
Benichasa, Thomas J. 3,039,179.
Benichasa, Thomas J., and Stenger. 3,054,170.
Wysowski, George. Meat carving board. 3,030,994, 4–24–62, Cl. 146—215.
Wyss, John H., H. L. Fredericksen, and W. A. Testard, to Cooper's Inc. Undergarment. 3,019,446, 2–6–62, Cl. 2—224.
Wyssen, Jakob. Transportation system. 3,058,601, 10–16–62, Cl. 212—87.
Wystrach, Vernon P.: *See*—
Buckler, Sheldon A., and Wystrach. 3,060,127.
Milks, John E., Wystrach, and Siegele. 3,032,500.
Wythe, Stephen L.: *See*—
Munsell, Monroe W., and Wythe. 3,053,766.
Wythe, Stephen L., and W. C. Hollyday, Jr., to Esso Research and Engineering Co. Middle distillate pour point depressants. 3,037,850, 6–5–62, Cl. 44—62.
Wythe, Stephen L., and W. C. Hollyday, Jr., to Esso Research and Engineering Co. Synergistic mixture of pour depressants for middle distillates. 3,069,245, 12–18–62, Cl. 44—62.
Wytovich, William. Magnetic windshield and window covers. 3,042,111, 7–3–62, Cl. 160—352.
Wytzes, Sjoerd, to North American Philips Co., Inc. Device for X-ray spectrochemical analysis by means of fluorescent radiation. 3,060,314, 10–23–62, Cl. 250—51.5.
Wyzenbeek, Andrew. Concrete vibrator tool. 3,042,386, 7–3–62, Cl. 259—1.
Xavier, Raymond A.: *See*—
Caro, Paul M., Miller, and Xavier. 3,051,553.
Xcelite, Inc.: *See*—
Zilliox, Arthur J. 3,069,946.
Xenakis, James A.: *See*—
Gucker, George C., Hardigan, Xenakis, and Quinn. 3,033,462.
Xenakis, Perry, and A. Dello Russo, to Airkem, Inc. Wick support means for non-spillable wick bottles. 3,027,100, 4–3–62, Cl. 239—47.
Xenis, Constantine P., to Consolidated Edison Co. of New York, Inc. Method and apparatus for interior coating of pipes. 3,022,765, 2–27–62, Cl. 118—2.
Xerox Corp.: *See*—
Baker, Mitchell. 3,061,911.
Bardeen, John. 3,041,166.

Xerox Corp.: *See*—Continued
Benson, Robert W., and Wirley. 3,062,534.
Bickmore, John T. 3,043,686.
Blakney, Robert M., Bode, Neyhart, and Potok. 3,041,-167.
Byrne, John F., and Walkup. 3,057,719.
Carlson, Chester F. Re. 25,136.
Carlson, Chester F., and Bogdonoff. 3,015,304.
Cerasani, Americo J., and Codichini. 3,053,962.
Codichini, Joseph J. 3,062,956.
Codichini, Joseph J. 3,068,356.
Crumrine, Herbert E. 3,040,621.
Crumrine, Herbert E., and Huber. 3,017,509.
Crumrine, Herbert E., and Huber. 3,060,131.
Eichler, Rolf W., Richern, and Rutkus. 3,062,533.
Gundlach, Robert W. 3,068,115.
Hall, Richard H., and Bird. 3,015,305.
Hayford, Richard E., and Kaiser. 3,057,720.
Heckscher, Helmut. 3,063,859.
Huber, Charles L. 3,062,178.
Iwerks, Ub. 3,049,810.
Iwerks, Ub. 3,057,324.
Johanson, Sten R. 3,049,968.
Lehmann, Ernest H., and Wright. 3,051,041.
Lewis, William G., and Wagner. 3,067,720.
Martin, Jerry N. 3,060,052.
Mayo, Clyde R. 3,062,094.
Mayo, Clyde R. 3,062,108.
Mayo, Clyde R., and Shepardson. 3,062,109.
Medley, Harold C. 3,063,351.
Murray, George H. 3,059,967.
Rosenthal, Joseph F. 3,043,685.
Rutkus, John, Jr., and Mott. 3,062,536.
Rutkus, John, Jr., Shepardson, and Griswold. 3,062,095.
Rutkus, John, Jr., and Taillie. 3,062,538.
Schwertz, Frederick A. 3,045,587.
Schwertz, Frederick A. 3,045,644.
Schwertz, Frederick A. 3,050,580.
Schwertz, Frederick A. 3,060,432.
Schwertz, Frederick A. 3,064,259.
Schwertz, Frederick A. 3,068,481.
Shepardson, Donald W., Rutkus, and Griswold. 3,062,-110.
Thompson, William B. 3,064,622.
Walkup, Lewis E. 3,043,217.
Walkup, Lewis E., and Byrne. 3,057,275.
X-Ray Mfg. Corp. of America: *See*—
Hollman, Henry, and Weisglass. 3,045,118.
Xzit Brickseal Co.: *See*—
Welch, Charles G. 3,056,690.
Yabe, Hisashige: *See*—
Osugi, Tetsuro, Tanabe, Kawabe, Yabe, Morimoto, and Miyazaki. 3,027,224.
Yabuta, Teijiro, H. Ikeda, K. Shiroyanagi, H. Ikeda, I. Fujimaki, M. Katayama, K. Tsuji, and T. Sato, to Kabushiki Kaisha Kagahu Kenkyusho. Dihydrodesoxystreptomycins and process for preparing same. 3,049,535, 8–14–62, Cl. 260—210.
Yaccarino, Joseph N.: *See*—
Somerville, James, Yaccarino, and Starry. 3,021,759.
Yachik, Royal P.: *See*—
Jorda, Robert M., and Yachik. 3,049,752.
Yackel, Edward C.: *See*—
Abbott, Thomas L., and Yackel. 3,033,677.
Yackel, Edward C., H. C. Yutzy, D. P. Foster, and A. A. Rasch, to Eastman Kodak Co. Photographic diffusion transfer process. 3,020,155, 2–6–62, Cl. 96—29.
Yadon, Donald E., to American Coleman Co. Pantograph drive and steering assembly. 3,063,512, 11–13–62, Cl. 180—14.
Yaeger, Luther L.: *See*—
Diehl, John M., and Yaeger. 3,046,180.
Yaeger, Luther L., and R. P. Lappala, to Bjorksten Research Laboratories, Inc. Photographic process for etching scribing media. 3,023,099, 2–27–62, Cl. 96—35.
Yaeger, Robert E., to Bell Telephone Laboratories, Inc. Encoder for pulse code modulation. 3,051,901, 8–28–62, Cl. 325—38.
Yaeger, Vincent M., to Pitney-Bowes, Inc. Recognition apparatus. 3,027,830, 4–3–62, Cl. 101—2.
Yaegle, Raymond R.: *See*—
Rosenquist, Paul A., and Yaegle. 3,063,773.
Yaffee, Philip: *See*—
Grantham, Rodney E., Raff, Hoffman, Pulliam, and Yaffee. 3,034,115.
Yaggy, Leon S.: *See*—
Hesse, Kenneth R., and Yaggy. 3,032,673.
Yagishita, Aisaburo, to Yoshikazu Ukai. Electrolyte purifying device. 3,061,537, 10–30–62, Cl. 204—275.
Yahn, Victor W.: *See*—
Redick, David C., Cameron, Bertsche, and Yahn. 3,020,771.
Yahnke, James G., deceased (by G. Hahnke, executrix), and W. E. Boyett, to Oxy-Dry Sprayer Corp. Method of preventing offset on a freshly printed sheet. 3,050,416, 8–21–62, Cl. 117—104.
Yahnke, Robert L., to United States of America, Navy. Fuel control device for ram-jet engines. 3,030,768, 4–24–62, Cl. 60—35.6.
Yaindl, Charles, to The Aldrich Pump Co. Control for fluid pump. 3,039,393, 6–19–62, Cl. 103—40.
Yakem, Charles. Rotary light sequence switch device. 3,050,-597, 8–21–62, Cl. 200—19.
Yakubik, Michael A., to The Goodyear Tire & Rubber Co. Decorative plastic floor covering or the like and method of making the same. 3,038,828, 6–12–62, Cl. 154—49.
Yakubik, Michael A., to The Goodyear Tire & Rubber Co. Process for producing colored sheet material. 3,049,761, 8–21–62, Cl. 18—57.
Yale, Harry L.: *See*—
Florey, Klaus G., Bernstein, Restivo, and Yale. 3,057,-861.
Yale, Harry L., to Olin Mathieson Chemical Corp. Benzothiadiazine derivatives. 3,057,862, 10–9–62, Cl. 260—243.
Yale, Harry L., to Olin Mathieson Chemical Corp. Benzothiadiazine derivatives. 3,057,863, 10–9–62, Cl. 260—243.
Yale, Harry L., and J. Bernstein, to Olin Mathieson Chemical Corp. Streptomycin isonicotinoyl-hydrazone. 3,035,044, 5–15–62, Cl. 260—210.
Yale, Harry L., and J. Bernstein, to Olin Mathieson Chemical Corp. Benzothiadiazines. 3,040,042, 6–19–62, Cl. 260—243.
Yale, Harry L., and F. A. Sowinski, to Olin Mathieson Chemical Corp. Dihydrodibenzothiazepines. 3,050,524, 8–21–62, Cl. 260—293.4.
Yale, Harry L., F. A. Sowinski, and J. Bernstein, to Olin Mathieson Chemical Corp. 10-piperazinoalkyl substituted trifluoromethylphenothiazines. 3,054,791, 9–18–62, Cl. 260—243.
Yale, Harry L., F. A. Sowinski, and J. Bernstein, to Olin Mathieson Chemical Corp. 5-(aminoalkyl)-5,11-dihydrodibenzoxazepines. 3,069,432, 12–18–62, Cl. 260—333.
Yale Rubber Mfg. Co.: *See*—
Snoddon, William J. 3,051,666.
Yale and Towne Mfg. Co., The: *See*—
Carliss, Oswald S., and Horton. 3,032,221.
Check, Mathias M. 3,017,655.
Check, Mathias M. 3,044,103.
Check, Mathias M. 3,057,649.
Check, Mathias M. 3,059,462.
Check, Mathias M., and Kubik. 3,038,749.
Horton, Earl A. 3,016,158.
Kubik, Paul P. 3,017,762.
Leeper, James W. 3,033,402.
Pantas, Leo J. 3,041,720.
Quayle, George F. 3,024,927.
Quayle, George F. 3,034,675.
Quayle, George F. 3,038,622.
Quayle, George F. 3,044,576.
Quayle, George F. 3,055,512.
Quayle, George F. 3,056,461.
Quayle, George F. 3,057,429.
Quayle, George F. 3,062,325.
Quayle, George F. 3,067,857.
Schmid, Raymond W. 3,036,850.
Schroeder, Charles S. 3,049,884.
Schroeder, Charles S. 3,059,795.
Ulinski, Bronislaus I. 3,015,838.
Ulinski, Bronislaus I. 3,021,150.
Ulinski, Bronislaus I. 3,031,024.
Ulinski, Bronislaus I. 3,040,827.
Ulinski, Bronislaus I. 3,040,828.
Ulinski, Bronislaus I. 3,047,172.
Ulinski, Bronislaus I. 3,068,019.
Ulinski, Bronislaus I. 3,068,021.
Williamson, William A. 3,052,494.
Williamson, William A. 3,069,183.
Yalen, Abraham. Spring metal U-shaped anchor. 3,051,517, 8–28–62, Cl. 287—54.
Yalnizyan, Puzant. Rotary external combustion engine. 3,040,530, 6–26–62, Cl. 60—39.61.
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Yalow, Isador D., and J. C. Jerome, to United States of America, Navy. Thermoelectric battery. 3,055,960, 9–25–62, Cl. 136—4.
Yamada, Hiroshi: *See*—
Takahashi, Hidetoshi, and Yamada. 3,068,464.
Yamada, Hiroshi. Parameter-excited resonator system. 3,066,228, 11–27–62, Cl. 307—88.
Yamada, Saburoe: *See*—
Arita, Hideo, Yamada, and Yamazaki. 3,038,783.
Yamada, Shigeki: *See*—
Masukawa, Miyoshi, Ota, Yamada, and Shimato. 3,016,-286.
Yamaguchi, Minoru, and T. Kobayashi, to The Yokohama Rubber Co., Ltd. Floating ship fender. 3,063,400, 11–13–62, Cl. 114—219.
Yamaji, Keizo: *See*—
Ito, Hiroshi, and Yamaji. 3,053,136.
Yamaji, Keizo, to Canon Camera Co., Inc. Zoom lens system. 3,027,805, 4–3–62, Cl. 88—57.
Yamamoto, Akira. Composite propellants. 3,055,781, 9–25–62, Cl. 149—19.
Yamamoto, Akira, and A. Toyama. Method of cutting cooperating worms and worm wheels. 3,045,557, 7–24–62, Cl. 90—4.
Yamamoto, Kansuke. Clasp for removable false teeth. 3,047,-952, 8–7–62, Cl. 32—5.
Yamamoto, Mititaka. Tumbler switches. 3,067,301, 12–4–62, Cl. 200—67.

Yamamoto, Ryuichi, H. Tanaka, and M. Takehara, to Shionogi & Co., Ltd. Non-hygroscopic 2-dimethylaminoethanol salt and methods of preparing same. 3,031,467, 4–24–62, Cl. 260—395.

Yamamoto, Tamotsu, to Y. Numata. Micro-calipers. 3,060,586, 10–30–62, Cl. 33—163.

Yamamoto, Yasuo: *See*—
Takahashi, Ogiu, Fujimura, Satoda, Fukui, and Yamamoto. 3,047,573.

Yamanaga, Kyonosuke: *See*—
Terayama, Denzaburo, and Yamanaga. 3,053,064.

Yamaoka, Kojiro, to Y. Yamaoka. Cooling system for smaller internal combustion engines. 3,024,773, 3–13–62, Cl. 123—41.53.

Yamaoka, Yasuhito: *See*—
Yamaoka, Kojiro. 3,024,773.

Yamashita, Hiromu, and A. Takahashi, to Kabushiki Kaisha Denkishiki Kagakukeiki. Apparatus for measuring electric resistance or concentration of liquid. 3,030,573, 4–17–62, Cl. 324—30.

Yamashita, Isao. Passing light system for motor vehicles 3,054,888, 9–18–62, Cl. 240—7.1.

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Yamazaki, Kanzo, to Hokuriku Kako Kabushiki Kaisha. Process for the manufacture of pulverized iron. 3,066,022, 11–27–62, Cl. 75—.5.

Yamazaki, Toshiaki: *See*—
Arita, Hideo, Yamada, and Yamazaki. 3,038,783.

Yamazaki, Masao, to Shinko Seiki Kabushiki Kaisha. Apparatus for treating molten metals. 3,061,298, 10–30–62, Cl. 266—34.

Yamin, Robert H.: *See*—
Solow, Sidney P., and Yamin. 3,022,165.

Yamokoski, Charles P., P. L. Sunthimer, and J. E. Brinza, to Superior Mold & Die Co. Collapsible drum for building tires and other annular articles. 3,042,102, 7–3–62, Cl. 156—420.

Yamura, Teiji. Apparatus for producing punched tape for teleprinter for transmission of characters of Chinese alphabet. 3,018,948, 1–30–62, Cl. 234—123.

Yanagimachi, Masanosuke. Electric generator system. 3,024,366, 3–6–62, Cl. 290—2.

Yanagisawa, Takaaki: *See*—
Tanaka Ichiro, Yanagisawa, Sawada, Misawa, and Nakayoshi, 3,063,911.

Yandell, Ronald P. B., to International Computers and Tabulators Ltd. Computing machines. 3,039,690, 6–19–62, Cl. 235—157.

Yando, Stephen, to Sylvania Electric Products Inc. Electroluminescent display device. 3,035,200, 5–15–62, Cl. 313—108.

Yang, Kwang-Tzu, to Dodge Mfg. Corp. Flexible coupling. 3,024,628, 3–13–62, Cl. 64—11.

Yang, Nien-Chu C., to G. D. Searle & Co. 3-oxygenated 20-hydroxy-18,20-cyclopregnanes. 3,060,202, 10–23–62, Cl. 260—397.4.

Yang, Nien-Chu C., and R. A. Finnegan, to Shell Oil Co. Epoxidation of alpha beta ethylenic ketones with organic hydroperoxides. 3,062,841, 11–6–62, Cl. 260—348.5.

Yanikoski Florian F., to Fenwal Inc. Control apparatus. 3,038,979, 6–12–62, Cl. 200—140.

Yaniuk, Raymond. Stripper assembly for combines. 3,021,662, 2–20–62, Cl. 56—364.

Yankee Metal Products Corp.: *See*—
Malachowski, Handry J. 3,056,495.

Yankee Plastics, Inc.: *See*—
Zuckerman, Jack M. 3,070,269.

Yanko, William H.: *See*—
Ort, Morris R., and Yanko. 3,063,927.

Yanko, William H., and J. D. Calfee, to Monsanto Chemical Co. Polymerization of vinyl compounds. 3,058,899, 10–16–62, Cl. 204—158.

Yannacakis, John: *See*—
Mitchell, Ellen M., and Yannacakis. 3,032,405.

Yannuzzi, Angelo R., to United States of America, Army. Plug-in device (quick release). 3,048,106, 8–7–62, Cl. 102—45.

Yanover, Norman E.: *See*—
Evans, Norman R. 3,058,103.

Yant, William P.: *See*—
Straiger, John P., Charlton, and Yant. 3,016,107.

Yanush, Konstant. Molding apparatus. 3,067,467, 12–11–62, Cl. 18—34.

Yap, Jan K., and J. J. van Rossum, to Shell Oil Co. Demisting gas with mats. 3,066,462, 12–4–62, Cl. 55—97.

Yarber, Gordon W. Control system for vehicle wheel brake. 3,017,145, 1–16–62, Cl. 244—111.

Yarborough, Mathias V., and V. N. McBee, to Halliburton Co. Holder for pre-punched inventory cards. 3,053,430, 9–11–62, Cl. 229—37.

Yarbrough, William S.: *See*—
Pirtle, Ira, and Yarbrough. 3,045,255.

Yarder Mfg. Co., The: *See*—
Kowalski, Joseph J. 3,016,642.

Yard-Man, Inc.: *See*—
Deptuia, Frank J., Hanson, Leavit, and Flansburgh. 3,038,288.

Yardney International Corp.: *See*—
Brown, Kenneth N. 3,048,469.
Comanor, Milton. 3,050,576.
Cooper, Manuel, and Gold. 3,018,314.
Di Pasquale, Renato, and Solomon. 3,016,413.
Horowitz, Carl, and Mendelsohn. 3,022,367.
Horowitz, Carl, and Mendelsohn. 3,050,467.
Mendelsohn, Meyer, and Horowitz. 3,050,418.
Solomon, Frank, and Brown. 3,055,964.
Solomon, Frank, Brown, and Di Pasquale. 3,069,486.

Yarnall, Richard L.: *See*—
Drollinger, Clarence O., and Yarnall. 3,017,595.

Yarnall-Waring Co.: *See*—
Kinderman, Walter J. 3,065,634.
Kinderman, Walter J. 3,067,623.
Neyer, Robert D. 3,053,089.

Yarnell, Lloyd D.: *See*—
Hohler, Robert L., and Yarnell. 3,061,749.

Yarosz, Roman S. Rotatable work table. 3,040,434, 6–26–62, Cl. 33—.

Yarrick, Charles J., to I-T-E Circuit Breaker Co. Arc chute for circuit breakers. 3,025,376, 3–13–62, Cl. 200—144.

Yarrick, Charles J., and R. Y. Starr, to I-T-E Circuit Breaker Co. Automatic trip indicator and lockout for circuit breakers. 3,070,682, 12–25–62, Cl. 200—167.

Yarrison, Walter W., to Rogers Corp. Manufacture of porous sheet materials. 3,067,469, 12–11–62, Cl. 18—55.

Yarrow and Co.: *See*—
Liddell, Robert E. 3,056,499.

Yarrow and Co, Ltd.: *See*—
Hobson, Eric D. 3,017,898.

Yarze, Joseph C., and H. G. Friedrich, to The M. W. Kellogg Co. Phosphorus production. 3,056,659, 10–2–62, Cl. 23—223.

Yarze, Ted T.: *See*—
Clifford, Eugene B., and Yarze. 3,034,633.

Yashica Co. Ltd.: *See*—
Akahane, Niro. 3,044,383.
Akahane, Niro. 3,045,536.
Akahane, Niro. 3,045,575.
Akahane, Niro. 3,062,091.
Miyasaka, Toru. 3,062,116.
Miyauchi, Hideo. 3,049,048.

Yashin, Nicholas: *See*—
Lang, Elliot R., and Yashin. 3,029,369.

Yasho, Joan, 15% to S. F. Carrino. Arrow retainer for bows. 3,059,631, 10–23–62, Cl. 124—41.

Yasuhara, Tomoo: *See*—
Meguro, Seitaro, Ozawa, Yasuhara, Sukegawa, Shiobara, and Yoshihara. 3,063,844.

Yasumatsu, Nozomu: *See*—
Iwai, Rinzo, and Yasumatsu. 3,027,068.

Yasuyuki Sata: *See*—
Noyori, Kimiharu. 3,016,000.

Yatchum, Joseph W.: *See*—
Wilson, Gordon A., Jr., and Yatchum. 3,045,090.

Yates-American Machine Co.: *See*—
Eschenburg, William A. 3,067,788.

Yates, Donald N. Animation illustrator. 3,054,204, 9–18–62, Cl. 40—106.52.

Yates, Herbert, to Yates Plant Ltd. Roller apparatus for supporting and rotating cylindrical objects. 3,027,159, 3–27–62, Cl. 269—177.

Yates, Herbert, to Yates Plant Ltd. Supporting and moving retractable booms. 3,050,196, 8–21–62, Cl. 212—55.

Yates, Paul C.: *See*—
Alexander, Guy B., and Yates. 3,069,292.
Funkhouser, John T., and Yates. 3,024,110.

Yates Plant Ltd.: *See*—
Yates, Herbert. 3,027,159.
Yates, Herbert. 3,050,196.

Yates, Wallace B. Exerciser. 3,042,023, 7–3–62, Cl. 128—25.

Yatsushiro, Kenji, to A. F. Dormeyer. Solenoid frame structure. 3,021,457, 2–13–62, Cl. 317—191.

Yavorsky, Paul M.: *See*—
Batchelor, James D., Friedrich, and Yavorsky. 3,018,226.

Yaw, Ronald D. Stand for ash tray. 3,032,306, 5–1–62, Cl. 248—146.

Yawata Iron and Steel Co., Ltd.: *See*—
Aihara, Masumi. 3,060,014.
Morita, Sadayoshi, and Sato. 3,028,270.
Sawada, Yasuhiro. 3,062,355.
Teshima, Seizo, Yonezaki, Nitto, and Obu. 3,027,269.
Yonezaki, Shigeru, and Kamata. 3,032,487.

Yawata Welding Electrode Co., Ltd.: *See*—
Aida, Masao, and Ishizaki. 3,036,205.

Yazell, Harold N., Jr., and J. G. Hawley, to The Goodyear Tire & Rubber Co. Fixed ring brake. 3,052,327, 9–4–62, Cl. 188—76.

Yeada, Victor, to Wright & McGill Co. Thumb-braked spinning reel. 3,038,682, 6–12–62, Cl. 242—84.2.

Yeada, Victor, to Wright & McGill Co. Spin casting reel with positive and friction brake means. 3,044,730, 7–17–62, Cl. 242—84.2.

Yeager, Wilbur E. Holder for paper milk cartons and the like. 3,024,943, 3–13–62, Cl. 220—85.

Yearley, George W.: *See*—
Portz, William E., and Yearley. 3,018,140.

Yeasting, Maynard C., to Toledo Scale Corp. Elevator controls. 3,065,825, 11–27–62, Cl. 187—29.

Yeasting, Maynard C., and M. A. Magsig; said Magsig assor. to Mid-West Abrasive Co. Automatic gauging device. 3,017,726, 1–23–62, Cl. 51—34.
Yeaton, Edward C. : *See*—
Lake, Alvin E., Jr., and Yeaton. 3,026,415.
Yeckley, Russell N., J. Sucha, and B. P. Baker, deceased (by Melion National Bank and Trust Co., executor), to Westinghouse Electric Corp. Circuit interrupter. 3,057,-983, 10–9–62, Cl. 200—145.
Yee, Daniel K. : *See*—
Lundstrom, Oscar C., and Yee. 3,042,886.
Yehling, George C., Jr., to Olin Mathieson Chemical Corp. Continuous distribution of alkali cellulose. 3,053,829, 9–11–62, Cl. 260—233.
Yellen, John J., Jr., to I.V. Chair Corp. Method of forming a multi-layer chair shell. 3,033,732, 5–8–62, Cl. 154—110.
Yelnik, Georges : *See*—
Morel, Paul, and Yelnik. 3,053,748.
Yen, Ernest C. : *See*—
Greif, Martin, Hansen, and Yen. 3,046,605.
Yen, Posheng, to Western Electric Co., Inc. Conveyor assembly control system. 3,063,544, 11–13–62, Cl. 198—37.
Yendall, Edward F. : *See*—
First, Vincent E., Potts, Rice, and Yendall. 3,059,439.
Matsch, Ladislas C., Yendall, Lauer, and Koehn. 3,066,-493.
Yendall, Edward F., to Union Carbide Corp. Low temperature purification of an impurity-containing gas. 3,063,247, 11–13–62. Cl. 62—13.
Yendall, Edward F., O. P. Roberts, Jr., L. J. La Plante, and W. H. Kahl, to Union Carbide Corp. Process and apparatus for separating helium from helium-air mixtures. 3,057,167, 10–9–62, Cl. 62—22.
Yenney, Robert A. : *See*—
Wright, George W., and Yenney. 3,044,662.
Yenni, Donald M. : *See*—
Gage, Robert M., Nestor, and Yenni. 3,016,447.
Yeo, John A. : *See*—
Moy, John A. E., White, and Yeo. 3,027,413.
Yeo, Alan A., and J. N. Haresnape, to The British Petroleum Co. Ltd. Hydrogenation of steam cracked gasoline. 3,024,-188, 3–6–62, Cl. 208—264.
Yeo, Ralph B. G., to The International Nickel Co., Inc. Alloy steels. 3,027,253, 3–27–62, Cl. 75—128.
Yeo, Robert A., to E. I. du Pont de Nemours and Co. Process for drying hydrogen cyanide. 3,022,143, 2–20–62, Cl. 23—293.
Yeo, Robert H., and D. E. Waid, to Maxon Premix Burner Co. Air-heating gas burner. 3,051,464, 8–28–62, Cl. 263—19.
Yeoman, Frederick A., to Westinghouse Electric Corp. Thermally conductive potting compositions. 3,045,132, 7–17–62, Cl. 310—43.
Yeoman, John A., to American Telephone and Telegraph Co. Code translator. 3,056,855, 10–2–62, Cl. 178—26.
Yeomans, Arthur S., Jr., to Olin Mathieson Chemical Corp. Shotshell wad structure. 3,022,731, 2–27–62. Cl. 102—42.
Yeomans, Arthur S., Jr., to Olin Mathieson Chemical Corp. Seal means for movable chamber firearms. 3,056,225, 10–2–62, Cl. 89—39.5.
Yeomans Brothers Co. : *See*—
Ciabattari, Emil J. 3,049,489.
Yeomans, Clive M., R. E. Engberg, and W. J. Taylor, Jr., to Martin-Marietta Corp. Control rod actuator mechanism. 3,058,846, 6–12–62, Cl. 204—193.2.
Yerby, Carlos F. : *See*—
Yerby, Robert M., H. T., and C. F. 3,023,475.
Yerby, Henry T. : *See*—
Yerby, Robert M., H. T., and C. F. 3,023,475.
Yerby, Robert M., H. T., and C. F. Apparatus for producing prestressed structural units. 3,023,475, 3–6–62, Cl. 25—120.
Yermakoff, Edward A., C. C. Elsesser, and E. P. Lee, to General Foods Corp. Package opener. 3,061,169, 10–30–62, Cl. 229—51.
Yeschick, William C. Sun visor. 3,029,439, 4–17–62, Cl. 2—12.
Yesowich, Thomas N. : *See*—
Monticello, William A., and Yesowich. 3,018,721.
Yetterland, Thomas E. Ore grader. 3,025,961, 3–20–62, Cl. 209—73.
Yevchak, Stephen J. : *See*—
Northrop, Arthur W., and Yevchak. 3,045,336.
Yevick, George, to United States Steel Corp. Device for testing circumferential welds in pipe lines. 3,018,657, 1–30–62, Cl. 73—46.
Yew, Ming-Chih : *See*—
Polhemus, Von D., and Yew. 3,046,000.
Yezek, Milton : *See*—
Couch, Robert D., and Yezek. 3,015,596.
Couch, Robert D., and Yezek. 3,049,429.
Yii, Roland : *See*—
Brown, Robert S., and Yii. 3,068,367.
Mintz, Leon J., and Yii. 3,051,852.
Yingling, Victor N., and H. J. Seel, to Harris-Intertype Corp. Sheet delivery slowdown. Re. 25,283, 11–6–62, Cl. 271—79.
Yingst, Cyrus S., to The Heald Machine Co. Cam grinding machine. 3,057,120, 10–9–62, Cl. 51—101.
Yingst, James E. : *See*—
Sampietro, Achilles C., and Yingst. 3,052,106.
Ylinen, Klaus J. Force measuring device. 3,045,793, 7–24–62, Cl. 194—6.
Yntema, Leonard F., and S. Kluz, to Fansteel Metallurgical Corp. Method of forming titanium silicide coatings. 3,047,419, 7–31–62, Cl. 117—46.
Yocham, Rose B. Apparatus for producing burnable gas from liquid gasoline. 3,039,862, 6–19–62, Cl. 48—144.
Yock, Lewis M., to The Coe Mfg. Co. Veneer lathe. 3,052,-272, 9–4–62, Cl. 144—209.
Yocom, Alvin M. Brake cooling and stabilizing means. 3,023,858, 3–6–62, Cl. 188—264.
Yocum, Paul A. Self-locking screw. 3,016,077, 1–9–62, Cl. 151—70.
Yocum, William C., to Superior Valve and Fittings Co. Pressure relief valve. 3,025,874, 3–20–62, Cl. 137—540.
Yocum, William C., to Superior Valve & Fittings Co. Piercing valve. 3,038,490, 6–12–62, Cl. 137—318.
Yocum, William C., to Superior Valve and Fittings Co. Fire extinguisher valve. 3,041,038, 6–26–62, Cl. 251—239.
Yoder Co., The : *See*—
Bognar, Charles J. 3,028,469.
Mackey, Eugene L. 3,017,494.
Mackey, Eugene L. 3,059,082.
Mackey, Eugene L., Bognar, and Dailey. 3,036,196.
Yoder, David A. Spot welding gun. 3,022,414, 2–20–62, Cl. 219—127.
Yoder, Herbert G. Brake system. 3,026,975, 3–27–62, Cl. 188—112.
Yoerger, Roger R., to Iowa State College Research Foundation. Apparatus for segmenting corncobs. 3,019,829, 2–6–62, Cl. 146—117.
Yohe, Lester N. Pontoons. 3,063,398, 11–13–62, Cl. 114—66.5.
Yohe, Lester N. Outrigger. 3,063,668, 11–13–62, Cl. 248—278.
Yohn, Melvin G. : *See*—
Nihlen, Arvib C. K., and Yohn. 3,064,506.
Yoho, John R., to The B. F. Goodrich Co. Apparatus for applying flexible strips to the edges of a flat conveyor belt. 3,044,552, 7–17–62, Cl. 156—467.
Yokana, Lucien D., to Sterling Extruder Corp. Extrusion apparatus. 3,059,276, 10–23–62, Cl. 18—12.
Yokel, Edward C., to Twin Disc Clutch Co. Fluid actuated friction clutch. 3,042,165, 7–3–62, Cl. 192—85.
Yokohama Rubber Co., Ltd., The : *See*—
Yamauchi, Minoru, and Kobayashi. 3,063,400.
Yokoyama, Tohei : *See*—
Hosokawa, Eiichi and M., Matsuyama, and Yokoyama. 3,037,712.
Yolin, Maurice. Hydraulic stamping press with a die made of plastic material. 3,046,923, 7–31–62, Cl. 113—45.
Yolles, Seymour, to E. I. du Pont de Nemours and Co. Pigment, method of making same, and coating compositions containing same. 3,053,683, 9–11–62, Cl. 106—290.
Yomiyama, Akira, and S. Yonekawa, to Asahi Kasei Kogyo Kabushiki Kaisha. Method for the recovery of selenium. 3,052,522, 9–4–62, Cl. 23—209.
Yonan, Peter : *See*—
Rorig, Kurt J., and Yonan. 3,062,861.
Yonekawa, Shigeru : *See*—
Yomiyama Akira, and Yonekawa. 3,052,522.
Yonezaki, Noboru : *See*—
Teshima, Seizo, Yonezaki, Nitto, and Obu. 3,027,269.
Yonezaki, Shigeru, and M. Kamata, to Yawata Iron and Steel Co., Ltd. Electrolytic treatment of ferrous metal surfaces. 3,032,487, 5–1–62, Cl. 204—56.
Yonezawa, Teruhiko : *See*—
Obba, Seiichi, Yonezawa, and Kumai. 3,022,172.
Yordi, Arthur H. Camshaft housing. 3,051,149, 8–28–62, Cl. 123—90.
York, Bernard H., to Voi-Shan Industries, Inc. Screwdriver. 3,026,920, 3–27–62, Cl. 145—50.
York, David S., B. W. McFadden, and W. B. Meara, Jr. Simulation table. 3,027,747, 4–3–62, Cl. 73—1.
York, Kenneth C., to General Dynamics Corp. (Convair Division). Inertial shock tester. 3,062,036, 11–6–62, Cl. 73—12.
York, Otto H. Reinforced mesh pad. 3,034,655, 5–15–62, Cl. 210—484.
York, Robert K., to Bell Telephone Laboratories, Inc. Gate circuit. 3,051,845, 8–28–62, Cl. 307—88.
York, Roger F. : *See*—
Fuller, Lee M., Chantry, and York. 3,050,554.
York Tape Printers, Inc. : *See*—
Dewyer, Peter J. 3,060,850.
York Trailer Co. Ltd. : *See*—
Slaven, John G. 3,056,612.
Yosenick, John M., to Automatic Electric Laboratories, Inc. Arrangement for limit switches. 3,065,315, 11–20–62, Cl. 200—47.
Yoshida, Tadao. Apparatus to manufacture slide fastener elements. 3,035,307, 5–22–62, Cl. 18—19.
Yoshida, Tadao. Slide fasteners. 3,054,158, 9–18–62, Cl. 24—205.1.
Yoshida, Tadao. Slide fastener. 3,058,188, 10–16–62, Cl. 24—205.1.
Yoshida, Zenzo : *See*—
Rokunohe, Mitsuru, Yoshida, Miyamoto, Mizuno, and Oketani. 3,068,126.
Yoshihara, Yasuo : *See*—
Meguro, Seitaro, Ozawa, Yasuhara, Sukegawa, Shiobara, and Yoshihara. 3,063,844.
Yoshikawa, Tadashi : *See*—
Akamatsu, Hayao, and Yoshikawa. 3,024,869.

Yoshikazu Ukai: *See*—
Yagishita, Aisaburo. 3,061,537.
Yoshimoto, Norboru, to Morishita Jintan Co., Ltd. Container for pills or the like. 3,059,762, 10–23–62, Cl. 206—42.
Yost, Clyde E., to Kew Standard Corp. Surgical hip nail. 3,029,811, 4–17–62, Cl. 128—92.
Yost, Francis L. Spiral curve drafting instrument. 3,037,–293, 6–5–62, Cl. 33—174.
Yost, James M., and W. E. Moritz, to Allegheny Plastics, Inc. Method for molding thin sections tetrafluoroethylene. 3,045,287, 7–24–62, Cl. 18—55.
Yost, Kermit D.: *See*—
Laser, William F., and Yost. 3,031,199.
Yost, Russell R., Jr., to Motorola, Inc. Super-regenerative circuit with automatic gain control. 3,054,056, 9–11–62, Cl. 325—340.
Yostpille, John J.: *See*—
Lee, Robert C., and Yostpille. 3,027,550.
Youell, Robert E. Means and techniques for recording and reproducing sound. 3,021,393, 2–13–62, Cl. 179—100.1.
Youger, Robert N. Electrical test probe. 3,022,483, 2–20–62, Cl. 339—108.
Youmans, Arthur H.: *See*—
Bergan, Reuben A., and Youmans, 3,024,407.
Youmans, Arthur H., to Well Surveys, Inc. Radiation detectors. 3,032,658, 5–1–62, Cl. 250—71.5.
Youmans, Arthur H., to Well Surveys, Inc. Methods and means for compensation of density logging instruments. 3,038,075, 6–5–62, Cl. 250—83.6.
Youmans, Arthur H., to Well Surveys, Inc. Scintillation counter for neutrons and gamma rays. 3,062,957, 11–6–62, Cl. 250—71.5.
Youmans, Arthur H., and T. P. Hubbard, Jr., to Well Surveys, Inc. Method of stabilizing the output of a nuclear emission source. 3,019,340, 1–30–62, Cl. 250—84.5.
Youmans, Donald W.: *See*—
Hilmer, Elwyn P., and Youmans. 3,031,025.
Youmans, Donald W., and M. N. Tone, to Deere & Co. Fluid pressure control system. 3,060,968, 10–30–62, Cl. 137—622.
Younce, Charles P., 50% to M. Y. Spence. Target device. 3,037,776, 6–5–62, Cl. 273—182.
Young, Alexander R.: *See*—
De Lury, James, Young, and Bodle. 3,020,723.
Young, Andres: *See*—
Hall, Frederick W., and Young. 3,023,275.
Young, Arthur M. Convertiplane. 3,035,789, 5–22–62, Cl. 244—7.
Young, Ben W.: *See*—
Fields, James R., and Young. 3,060,639.
Young, Bruce A.: *See*—
Kearney, Thomas J., and Young. 3,042,553.
Kearney, Thomas J., and Young. 3,046,163.
Young, Carl T., and S. Bespalko, to International Business Machines Corp. Magnetic erase means. 3,038,036, 6–5–62, Cl. 179—100.2.
Young, Charles E. Tuning indicator. 3,056,124, 9–25–62, Cl. 340—253.
Young, Charles H., to Herschal Products, Inc. Pneumatically operated tool. 3,048,150, 8–7–62, Cl. 121—33.
Young, David A.: *See*—
Fowler, Blair B., and Young. 3,058,397.
Fowler, Blair B., Young, and Griswold. 3,034,568.
Young, David A., to Aerojet-General Corp. Fluid projection apparatus. 3,033,426, 5–8–62, Cl. 222—386.5.
Young, David H., to The Walter Kidde Co. Ltd. Aircraft breathing systems. 3,045,691, 7–24–62. Cl. 137—81.
Young, David M., and C. D. Anderson, to The Dow Chemical Co. Method for the preparation of alkyl borateamine compounds. 3,065,236, 11–20–62, Cl. 260—293.
Young, David M., and D. N. Glew, to The Dow Chemical Co. Conversion of bis(2-chloro-ethyl) ether to chlorinated hydrocarbons, 3,067,267, 12–4–62, Cl. 260—657.
Young, David W.: *See*—
Nelson, John W., Lundquist, and Young. 3,024,293.
Young, David W., to Sinclair Refining Co. Stabilized isotactic polypropylene and method. 3,022,267, 2–20–62, Cl. 260—45.9.
Young, David W., to Sinclair Refining Co. Improved high molecular weight polyisobutylene compositions and method of making. 3,050,497, 8–21–62, Cl. 260—45.5.
Young, David W., and E. M. Pare, to Sinclair Refining Co. Preparation of tertiary alkyl formate and acetate. 3,031,–495, 4–24–62. Cl. 260—497.
Young, David W., and J. S. Curtice, to Sinclair Research, Inc. Lubricating compositions. 3,049,493, 8–14–62, Cl. 252—56.
Young, David W., R. R. Chambers, and E. M. Pare, to Sinclair Refining Co. 1,1-dihalo-2,2-dialkyl cyclopropane polymer. 3,062,754, 11–6–62, Cl. 260—2.
Young, Dean A.: *See*—
Hansford, Rowland C., and Young. 3,053,754.
Hansford, Rowland C., and Young. 3,053,755.
Young, Donald C., to Collier Carbon and Chemical Corp. Production of ammonium phosphates and product thereof. 3,044,851, 7–17–62, Cl. 23—107.
Young, Donald C., to Collier Carbon and Chemical Corp. Phosphoric acid. 3,044,854, 7–17–62, Cl. 23—165.
Young, Donald C., to Collier Carbon and Chemical Corp. Concentration of wet-process phosphoric acid. 3,044,855, 7–17–62, Cl. 23—165.
Young, Donald C., to Collier Carbon and Chemical Corp. Liquid fertilizers. 3,046,105, 7–24–62, Cl. 71—51.
Young, Donald M., C. F. Horn, and F. Hostettler, to Union Carbide Corp. Sulfone polyesters. 3,035,024, 5–15–62, Cl. 260—75.
Young, Donald M., and C. F. Horn, to Union Carbide Corp. Sulfone salts and polyamides. 3,044,995, 7–17–62, Cl. 260—78.
Young, Donald M., and F. Hostettler, to Union Carbide Corp. Polyurethane resins. 3,051,687, 8–28–62, Cl. 260—77.5.
Young, Donald R.: *See*—
Brennemann, Andrew E., De Lano, and Young. 3,042,904.
Koelsch, Albert C., Jr., and Young. 3,027,806.
Young, Edwin H. P., to Imperial Chemical Industries Ltd. 3-β-ethyl-β-nitrovinylindole, 3,042,684, 7–3–62, Cl. 260—319.
Young, Emil J., and L. F. Irrigation valve. 3,021,109, 2–13–62, Cl. 251—204.
Young, Ephraim S. Thread or yarn breakage detector. 3,021,401, 2–13–62, Cl. 200—61.18.
Young, Farrile S., to Gulf Interstate Oil Co. Pipeline. 3,021,864, 2–20–62, Cl. 137—236.
Young, Farrile S., to Gulf Interstate Co. Compressor system. 3,045,893, 7–24–62, Cl. 230—95.
Young, Farrile S., to Gulf Interstate Oil Co. Gas strainer. 3,053,032, 9–11–62, Cl. 55—416.
Young, Fletcher F., to Corning Glass Works. Method of making bifocal lenses. 3,068,671, 12–18–62, Cl. 65—29.
Young, Fred W., to S. N. Goldman. Telescoping grocery carts with sliding bottom. 3,026,122, 3–20–62, Cl. 280—33.99.
Young, Frederick H.: *See*—
Hertz, Theodore M., and Young. 3,049,296.
Young, Frink J., and E. F. Colton, to Epsco, Inc. Multiplexing means. 3,051,791, 8–28–62, Cl. 179—15.
Young, Frink M., and T. G. Hagan, to Adage, Inc. Analog to digital converter. 3,052,880, 9–4–62, Cl. 340—347.
Young, Gale J.: *See*—
Wigren, Eugene P., Ohlinger, Young, and Weinberg. 3,052,613.
Young, Gale J., and D. M. Poole, to United Nuclear Corp. Steam reactor system. 3,047,479, 7–31–62, Cl. 204—154.2.
Young, George V. Vacuum chopper system. 3,015,764, 1–2–62, Cl. 317—250.
Young, George V., to Endevco Corp. Vacuum chopper system. 3,040,263, 6–19–62, Cl. 330—10.
Young, George V., to Endevco Corp. Transistor regulated power supply. 3,046,469, 7–24–62, Cl. 323—22.
Young, Gerald V., to H. V. Young Oil Co. Apparatus for spreading granular material using hydraulic power. 3,019,025, 1–30–62, Cl. 275—8.
Young, Gloyd H., and C. Cone, to Midland-Ross Corp. Furnace roller. 3,070,362, 12–25–62, Cl. 263—6.
Young, H. V., Oil Co.: *See*—
Young, Gerald V. 3,019,025.
Young, Harland H., and P. G. Harrill, to Swift & Co. Protein derivatives. 3,021,321, 2–13–62, Cl. 260—117.
Young, Harland H., J. R. Newman, and E. J. Majka, to Swift & Co. Method for incorporating a drying oil in a fibrous composition and the improved product. 3,055,796, 9–25–62, Cl. 162—149.
Young, Harland H., and S. B. Luce, to Swift & Co. Method of increasing the water resistance of adhesive bonds. 3,070,483, 12–25–62, Cl. 156—292.
Young, Harold A., to J. M. Huber Corp. Load indicator. 3,024,650, 3–13–62, Cl. 73—141.
Young, Harvey N.: *See*—
Thomas, Roany B., and Young. 3,044,293.
Young, Henry B.: *See*—
Roberts, Emmett T., Jr., Liljestrand, and Young. 3,063,–467.
Young, Homer W., to Remington Arms Co., Inc. Fire control mechanism for reciprocating bolt firearms. 3,027,811, 4–3–62, Cl. 89—145.
Young, Horace A.: *See*—
Littwin, Arthur K. 3,045,151.
Littwin, Arthur K. 3,045,165.
Young, Irvin L. Printing machine. 3,059,572, 10–23–62, Cl. 101—37.
Young, James A., and R. T. Lucas, to United States of America, Navy. Aerosol filter. 3,069,831, 12–25–62, Cl. 55—521.
Young, John M. C., to Joseph Lucas (Industries) Ltd. Device for intermittently supplying lubricants. 3,065,765, 11–27–62, Cl. 137—624.14.
Young, John S., to Automatic Electric Laboratories, Inc. Private automatic branch exchange telephone system providing transfer service. 3,033,938, 5–8–62, Cl. 179—27.
Young, Joseph, to International Standard Electric Corp. Sorting machine. 3,019,896, 2–6–62, Cl. 209—74.
Young, Kenneth W.: *See*—
Flatt, James H., and Young. 3,049,602.
Flatt, James H., and Young. 3,049,603.
Hartzell, Herman L., and Young. 3,051,393.
Tranbarger, Glen E., Murray, Young, and Mehagan. 3,051,801.
Young, L. A., Spring & Wire Corp.: *See*—
McGuire, George E., Uren, and Woodside. 3,023,914.
Young, Lawrence A., and N. C. Cochron, ⅝ to H. A. Scott and ⅛ to said Cochron. Bale sampling apparatus. 3,034,–358, 5–15–62, Cl. 73—421.
Young, Leo: *See*—
Howell, Ronald T. A., and Young. 3,045,188.
Young, Leparis D., and J. Umeda. Wheel rotating device for airplanes. 3,026,069, 3–20–62, Cl. 244—103.

Young, Lester C., to Spo, Inc. Mold closer apparatus. 3,017,675, 1–23–62, Cl. 22—31.
Young, Louis C., to North American Aviation, Inc. Variable supersonic inlet and by-pass system. 3,029,600, 4–17–62, Cl. 60—35.6.
Young, Lucile F.: *See*—
Young, Emil J. and L. F. 3,021,109.
Young, Luther O., and W. E. Waxter, to W. R. Grace & Co. Method of rinsing hair with hydrazinium chlorides. 3,068,-150, 12–11–62 Cl. 167—87.
Young, Maurice W., and A. C. Schromshaw, to Kunkle Valve Co. Relief valve embodying anti-vibration structure. 3,019,811, 2–6–62, Cl. 137—543.13.
Young, Merrill A., and D. N. Erlenbach, to Curtiss-Wright Corp. Impact testing. 3,050,979, 8–28–62, Cl. 73—1.
Young, Meville: *See*—
Guneratne, Piyatilleke P., Young, and French. 3,051,-641.
Young, Paul M., to International Business Machines Corp. Record memory device. 3,016,418, 1–9–62, Cl. 178—17.
Young Radiator Co.: *See*—
Brinen, Paul F. 3,069,992.
Gunn, Earl G. 3,020,992.
Young, Ralph E., ½, to D. O. Comer. Fish and animal holding and manipulating device. 3,046,596, 7–31–62, Cl. 17—8.
Young, Ralph L.: *See*—
Humbert, Kingsley E., Jr., Young, and Hough. 3,045,928.
Humbert, Kingsley E., Jr., Young, and Hough. 3,054,507.
Young, Ray L., and D. F. Melchert, to Collins Radio Co. Relay switching device. 3,064,172, 11–13–62, Cl. 318—293.
Young, Raymond A.: *See*—
Blasberg, Lawrence A., and Young. 3,041,554.
Young, Richard B., to Acushnet Process Co. Ski goggle. 3,036,310, 5–29–62, Cl. 2—14.
Young, Richard C., to Enghauser Mfg. Co., Inc. Extensible building column. 3,039,731, 6–19–62, Cl. 248—354.
Young, Richard E., to Hercules Powder Co. Filament delivery systems and methods. 3,025,205, 3–13–62, Cl. 156—169.
Young, Richard E., to Hercules Powder Co. Filament wound vessels and methods for forming same. 3,047,191, 7–31–62, Cl. 220—90.
Young, Richard E., to Hercules Powder Co. Device for determining the end pattern of filament wound pressure vessels. 3,063,650, 11–13–62, Cl. 242—1.
Young, Richard J.: *See*—
Harding, Anthony J., and Young. 3,032,481.
Young, Richard W.: *See*—
Goodenow, Wayne B., Smith, and Young. 3,032,271.
Steltz, Irvin J., and Young. 3,053,781.
Young, Robert S. Plan position indicator with elevation indication in color. 3,031,660, 4–24–62, Cl. 343—11.
Young, Robert P.: *See*—
Clark, John W., Young, and Rawlins. 3,052,747.
Young, Robert G., to Westinghouse Electric Corp. Reflector lamp. 3,018,403, 1–23–62, Cl. 313—114.
Young, Robert G., Jr.: *See*—
Schutter, George M., and Young. 3,042,069.
Young, Robert S. C.: *See*—
Gray, Edward E., Schink, and Young. 3,067,526.
Young, Robert W. Means for producing blasts of compressed gas or vapour of given duration and periodicity. 3,066,-688, 12–4–62, Cl. 137—12.
Young, Roger W.: *See*—
Cohen, Martin J., Young, Dusenbery, and Gibson. 3,031,-152.
Young, Roger W., and J. F. Dusenbury. Expansible roll and support thereof. 3,055,605, 9–25–62, Cl. 242—56.4.
Young, Ronald D.: *See*—
Hignett, Travis P., Phillips, and Young. 3,034,883.
Young, Royce O., to Unistrut Products Co. Building partition structure. 3,034,609, 5–15–62, Cl. 189—34.
Young and Selden Co.: *See*—
Bell, Arthur L., and Alford. 3,068,788.
Young, Sherwood L., to American Radiator & Standard Sanitary Corp. Seat and cover structure. 3,032,777, 5–8–62, Cl. 4—240.
Young, Sherwood L., to American Radiator & Standard Sanitary Corp. Hinge. 3,046,570, 7–31–62, Cl. 4—240.
Young, Shirrel R., to Aeroscience, Inc. Modular flexure supports. 3,063,670, 11–13–62, Cl. 248—358.
Young Spring & Wire Corp.: *See*—
Appleman, William S. 3,063,586.
Asaro, Vito, and Ciesielski. 3,049,377.
Dorkins, Evan E. 3,033,380.
Dorkins, Evan E. 3,057,499.
Dorkins, Evan E., and Gernhardt. 3,034,587.
Rumpts, Bernard S. 3,027,194.
Thomas, Boyd F., and J. C., III. 3,064,116
Thomas, Boyd F. and J. C., III. 3,064,117.
Young, Stephen A. Shower head. 3,022,014, 2–20–62, Cl. 239—438.
Young, Stephen A. Spout construction. 3,025,085, 3–13–62, Cl. 285—193.
Young, Stephen A. Bonnet, escutcheon and sleeve construction. 3,043,330, 7–10–62, Cl. 137—359.
Young, Terence N. Attachments for beds. 3,042,937, 7–10–62, Cl. 5—332.
Young, Victor E., to Square D Co. Regulator system. 3,037,-157, 5–29–62, Cl. 318—308.

621173—P——74

Young, Wayne H.: *See*—
Berry, Bernie B., Jr., Davis, May, and Young. 3,061,252.
Young, Wendell M. Livestock marking bullet. 3,037,454, 6–5–62, Cl. 102—38.
Young, William A., and E. T. Johnson, to Deere & Co. Non-clogging outer shoe for mowers. 3,046,723, 7–31–62, Cl. 56—314.
Young, William G.: *See*—
Sweger, Russell P., Horton, and Young. 3,050,257.
Young, William J., to Consolidated Packaging Machinery Corp. Belt type cap sorting machine. 3,061,069, 10–30–62, Cl. 198—33.
Young, William J., to Consolidated Packaging Machinery Corp. Cap sorter. 3,070,209, 12–25–62, Cl. 198—33.
Young, William W., and H. B. Wetmore, to Waltham Precision Instrument Co., Inc. Servo motor control. 3,020,-770, 2–13–62, Cl. 74—5.47.
Young, Young & Young: *See*—
Cox, Pope D. 3,057,415.
Youngberg, Charles H., to Deere & Co. Disk harrow with extension gangs. 3,021,906, 2–20–62, Cl. 172—397.
Youngblood, David H.: *See*—
Browning, James E., Anderson, and Youngblood. 3,053,352.
Youngdale, Ted L. Hinge. 3,066,349, 12–4–62, Cl. 16—163.
Younger, John O., to United States of America, Army. Expandable folding box. 3,032,253, 5–1–62, Cl. 229—37.
Younger, John O., to United States of America, Army. Fiberboard shipping box and blank therefor. 3,040,960, 6–26–62, Cl. 229—33.
Youngman, Edward A., to Shell Oil Co. Production of sodium perborate trihydrate. 3,041,137, 6–26–62, Cl. 23—60.
Youngman, Edward A., to Shell Oil Co. Polymerization process. 3,066,123, 11–27–62, Cl. 260—94.3.
Youngman, Edward A., and W. A. Hewett, to Shell Oil Co. Vulcanization of elastomers of monoalpha olefins. 3,041,-321, 6–26–62, Cl. 260—88.2.
Youngquist, Robertson: *See*—
Ferris, De Lacy F., and Youngquist. 3,034,293.
Youngren, Fred R., M. W. Fossier, and R. O. Howe, to United States of America, Navy. Radome with boresight error reduction means. 3,063,654, 11–13–62, Cl. 244—14.
Youngson, Charles R., to The Dow Chemical Co. Method of destroying nematodes. 3,062,705, 11–6–62, Cl. 167—22.
Youngson, Charles R., and C. A. I. Goring, to The Dow Chemical Co. Agronomic practice for the protection of crops and new composition of matter. 3,026,244, 3–20–62, Cl. 167—22.
Youngson, Charles R., and C. A. I. Goring, to The Dow Chemical Co. Chloropicrin-propargyl bromide fumigant. 3,026,246, 3–20–62, Cl. 167—39.
Youngson, Charles R., and C. A. I. Goring, to The Dow Chemical Co. Synergistic methyl bromide and 1,3-dichloropropene pesticide. 3,055,799, 9–25–62, Cl. 167—22.
Youngson, Charles R., and C. A. I. Goring, to The Dow Chemical Co. Agronomic practice for the protection of crops and new composition of matter. 3,056,720, 10–2–62, Cl. 167—22.
Youngson, Charles R., and C. A. I. Goring, to The Dow Chemical Co. Agronomic practice for the protection of crops and new composition of matter. 3,061,507, 10–30–62, Cl. 167—22.
Youngstown Sheet and Tube Co., The: *See*—
Holberson, Henry A. 3,046,568.
Holberson, Henry A. 3,046,569.
May, Russell D. 3,035,701.
Youngstown Steel Door Co., The: *See*—
Beauchamp, Wilfred A. 3,039,154.
Beauchamp, Wilfred A. 3,040,392.
Beauchamp, Wilfred A. 3,045,295.
Johansson, Carl E. 3,015,286.
Yourke, Hannon S., to International Business Machines Corp. Transistor in-phase current amplifier. 3,067,389, 12–4–62, Cl. 330—13.
Yourke, Hannon S., and W. G. Strohm, to International Business Machines Corp. Pulse shortening generator. 3,018,390, 1–23–62, Cl. 307—88.5.
Youse, Earl L., to Acheson Industries, Inc. Polytetrafluoroethylene-cellulosic ether dispersion, method of forming coatings therewith and article coated therewith. 3,055,852, 9–25–62, Cl. 260—17.
Youtie, Robert K. Article supporting cradle. 3,026,981, 3–27–62, Cl. 193—35.
Yowell, Joseph W., and D. B. Miner. Corrugated tubing. 3,019,820, 2–6–62, Cl. 138—121.
Yowell, Joseph W., and D. B. Miner. Very thin wall tubing. 3,021,596, 2–20–62, Cl. 29—544.
Ysberg, Sven H.: *See*—
Jodell, Georg E., Lindstrom, and Ysberg. 3,027,040.
Yslas, Alfonso. Solderless connection for electric sockets. 3,047,830, 7–31–62, Cl. 339—174.
Ytreland, Thomes E. Wrap-around splicing tool and clips. 3,023,416, 3–6–62, Cl. 1—187.
Ytterberg, Carl F., to Kalman Floor Co., Inc. Floor finishing machine. 3,039,374, 6–19–62, Cl. 94—45.
Yu, Arthur J.: *See*—
Evans, Robert D., and Yu. 3,046,256.
Evans, Robert D., and Yu. 3,046,257.
Evans, Robert D., and Yu. 3,053,813.

Yu, Richard T.: *See*—
Ackell, Joseph J., Paulding, and Yu. 3,018,946.
Yuan, Edward L., to E. I. du Pont de Nemours and Co. Cured elastomer and process of making same. 3,025,183, 3–13–62, Cl. 117—126.
Yuba Consolidated Industries, Inc.: *See*—
Cabral, Walter M. 3,049,253.
Edgemond, John W., Jr., and O'Connor. 3,021,881.
Marinovich, Samuel G. and E. J. 3,021,888.
Murphy, John P. 3,027,633.
Murphy, John P. 3,055,090.
Tuckey, James C. 3,059,687.
Yudelson, Joseph: *See*—
Allen, Charles F. H., Talbot, Yudelson, and Smith. 3,047,394.
Houck, Robert C., Smith, and Yudelson. 3,062,674.
Yudelson, Joseph, to Eastman Kodak Co. Hardening of coatings of polymers containing carboxyl groups. 3,017,280, 1–16–62, Cl. 106—125.
Yuen, Vann. Electronic apparatus for determining identification metals and metal alloys. 3,034,050, 5–8–62, Cl. 324—71.
Yuengen, Robert L.: *See*—
Ferris, Robert G., and Yuenger. 3,035,874.
Yuk, James P., to E. I. du Pont de Nemours and Co. Textile. 3,039,895, 6–19–62, Cl. 117—138.8.
Yule, Herbert P.: *See*—
George, Wayland D., Jones, and Yule. 3,049,620.
Yule, Louis T.: *See*—
Pennington, Robert E., and Yule, and Snyder. 3,047,612.
Yurcheshen, Michael: *See*—
Levine, Morris, and Yurcheshen. 3,069,291.
Yurgen, William J., B. Bennett, and S. Palinchak, to General Motors Corp. Battery separator. 3,054,843, 9–18–62, Cl. 136—146.
Yurugi, Shojiro, and T. Fushimi, to Takeda Pharmaceutical Industries, Ltd. Tetrahydropyranyl and tetrahydrofuryl derivatives of thiamine. 3,016,380, 1–9–62, Cl. 260—256.5.
Yuter, Seymour C.: *See*—
Lehmann, Ernest, and Yuter. 3,038,550.
Yutzy, Henry C.: *See*—
Yackel, Edward C., Yutzy, Foster, and Rasch. 3,020,155.
Yzerman, Henk. Stereophotogrammetrical plotting apparatus. 3,060,798, 10–30–62, Cl. 88—24.
Zabel, Henry. Radius turning tool holder. 3,026,752, 3–27–62, Cl. 82—12.
Zabel, Lowell W., to Kimberly-Clark Corp. Papermaking machine. 3,058,672, 10–16–62, Cl. 241—37.
Zaborowski, Robert, to Stamicarbon N.V. Process for separating particles of solid material according to specific gravity. 3,023,893, 3–6–62, Cl. 209—18.
Zabouski, John: *See*—
Dew, Robert L., Kuklinski, and Zabouski. 3,025,053.
Zabransky, Wesley. Copper cleaning unit. 3,027,688, 4–3–62, Cl. 51—5.
Zabransky, Wesley. Lead bend saw. 3,038,255, 6–12–62, Cl. 30—92.
Zabriskie, Douglas M., to The Western Union Telegraph Co. Copy marker in facsimile apparatus. 3,039,104, 6–12–62, Cl. 346—100.
Zachary, Alexis. Hair treating device. 3,027,900, 4–3–62, Cl. 132—42.
Zachow, Henry E., to American Mfg. Co., Inc. Sheet pack stacking apparatus. 3,028,979, 4–10–62, Cl. 214—6.
Zack, Albert: *See*—
Oliver, Chester H., Jr., and Zack. 3,068,435.
Wroblewski, Theodore, and Zack. 3,068,433.
Zack, Albert, to Sylvania Electric Products Inc. Terminal tube locating apparatus. 3,067,497, 12–11–62, Cl. 29—203.
Zack, John F., Jr., to Dow Corning Corp. Method of vulcanizing organosiloxanes. 3,065,158, 11–20–62, Cl. 204—154.
Zacka, Victor F., and R. E. Heimerdinger, to The Ford Motor Co. Alloy of iron, aluminum, and chromium. 3,068,-094, 12–11–62, Cl. 75—124.
Zacpal, Zdeněk, to Prerovske strojirny. Apparatus for preheating finely divided material. 3,067,990, 12–11–62, Cl. 263—32.
Zaehler, Klaus: *See*—
Hoppe, Hans, and Zaehler. 3,061,052.
Zaenkert, Frederick A.: *See*—
Tannehill, Jame R., Moore, and Zaenkert. 3,023,556.
Zaffino, Denie. Trunk to branch tree lights. 3,019,357, 1–30–62. Cl. 307—157.
Zagar, Asher I., to Ettco Tool & Machine Co., Inc. Positive drive tapping attachements. 3,030,818, 4–24–62, Cl. 74—377.
Zagar, Asher I., to Ettco Tool & Machine Co., Inc. Forward and reverse friction drive tapping attachment. 3,051,013, 8–28–62, Cl. 74—379.
Zagar, Asher I., to Ettco Tool & Machine Co., Inc. Extensible tool supporting arm for drill and tap drive heads. 3,064,497, 11–20–62, Cl. 74—665.
Zagar, Frank G., to Zagar, Inc. Multiple spindle nut tapping machine. 3,015,832, 1–9–62, Cl. 10—130.
Zagar, Inc.: *See*—
Zagar, Frank G. 3,015,832.
Zager, Kurt, and A. Rumberg, to Knapsack-Griesheim Aktiengesellschaft. Device for holding and moving forward pre-burned electrodes. 3,059,039, 10–16–62, Cl. 13—16.
Zagnoli, Roland C., to Abbott Laboratories. Plastic tablet coating. 3,030,273, 4–17–62, Cl. 167—82.
Zagorski, Wladyslaw S., to General Electric Co. Range timer. 3,038,041, 6–5–62, Cl. 200—38.
Zagt, Marinus A., Jr., to Gerardus Van Loon, trading as Cedona, Haarlemmer Pharmaceutsiche Fabriek. Process for deglycyrrhizinating licorice (succus liquiritiae). 3,046,195, 7–24–62, Cl. 167—65.
Zagusta, John A.: *See*—
Anderson, Paul L., and Zagusta. 3,052,823.
Zaha, Abe. Automotive trailer. 3,033,593, 5–8–62, Cl. 280—460.
Zahler, Peter H., to Swiss Serum and Vaccine Institute. New urea derivatives and preparation thereof. 3,015,673, 1–2–62, Cl. 260—553.
Zahlhaas, Siegfried: *See*—
Hiller, Rolf, Rutkowski, Krägeloh, Voegtlen, and Zahlbaas. 3,051,793.
Zahner, Charles P.: *See*—
Spitz, Theodore S., Zahner, and Samson. 3,021,516.
Zahnradfabrik Friedrichshafen: *See*—
Von Thuengen, Hubert F. 3,017,964.
Zahnradfabrik Friedrichshafen, Aktiengesellschaft: *See*—
Doleschalek, Otto. 3,031,893.
Jablonski, Erich. 3,032,014.
Looman, Johannes. 3,021,829.
Magg, Alfred. 3,042,459.
Straub, Hermann. 3,066,781.
Wagner, Heinrich. 3,058,368.
Wagner, Heinrich, and Jablonsky. 3,023,629.
Zahrádka, Pavel: *See*—
Losert, Miloslav, and Zahrádka. 3,063,269.
Zaia, Anthony T. Mounting board for sheet material. 3,048,-278, 8–7–62, Cl. 211—45.
Zaic, Frank: *See*—
Glass, John P., and Zaic. 3,022,946.
Glass, John P., and Zaic. 3,027,076.
Zaidan, Joseph P. Rotary brush attachment for tank type vacuum cleaners. 3,044,100, 7–17–62, Cl. 15—387.
Zaiger, Max. Windshield wiper blade. 3,022,532, 2–27–62, Cl. 15—250.42.
Zajac, Stephen J., to Standard Oil Co. Thickening of greases with organo, phosphorus compounds. 3,053,769, 9–11–62, Cl. 252—49.9.
Zajadatz, Heinz: *See*—
Lange, Günther, and Zajadatz. 3,043,193.
Zak, Theodore J.: *See*—
Firestine, Arthur G., Mooney, and Zak. 3,030,746.
Zak, Theodore J., to Bausch & Lomb Inc. Lens cleaning process. 3,050,422, 8–21–62, Cl. 134—1.
Zakarin, David. Swivel attachment for reversible belt. 3,026,533, 3–27–62, Cl. 2—301.
Zakrzewski, Andrew S., and G. S. Ashby, to Pneuma-Serve Ltd. Feeding apparatus for fasteners and the like. 3,038,-637, 6–12–62, Cl. 221—271.
Zaks, Vladimir Z., to The American Society for Technion, Israel Institute of Technology, Inc. Visual display and recording system. 3,065,378, 11–20–62, Cl. 315—55.
Zalesak, Thomas A., 49% to Our Lady of Fatima Church. Spark plug with intensifier. 3,043,980, 7–10–62, Cl. 313—124.
Zaleski, John F., to General Precision, Inc. Amplifier for modulated microwaves. 3,038,992, 6–12–62, Cl. 250—20.
Zaleski, John F., to General Precision Inc. Crystal mixer protection circuit. 3,047,859, 7–31–62, Cl. 343—8.
Zaleski, John F., to General Precision, Inc. Microwave detector. 3,061,791, 10–30–62, Cl. 329—154.
Zalewski, Anton J. Irrigating device. 3,016,202, 1–9–62, Cl. 239—242.
Zalis, Albert A., to Warren Pumps, Inc. Pump. 3,057,665, 10–9–62, Cl. 302—14.
Zalkind, Albert M. Novelty fly swatter for amusement purposes. 3,031,794, 5–1–62, Cl. 43—137.
Zalkind, Albert M. Novelty game. 3,036,834, 5–29–62, Cl. 273—136.
Zalkind, Joseph. Meter ticket. 3,032,355, 5–1–62, Cl. 282—22.
Zalkind, Joseph. Pull-apart envelopes. 3,061,174, 10–30–62, Cl. 229—85.
Zalkind, Sidney J., to Alliance Paper & Packaging Co., Inc. Lined containers. 3,055,568, 9–25–62, Cl. 229—14.
Zallen, Joseph: *See*—
Tatel, Howard E., and Sreb. 3,025,521.
Zaloumis, Angelos. Flexible pipe coupling with hemispherical coupling elements. 3,038,743, 6–12–62, Cl. 285—51.
Zambito, Arthur J., and T. J. Macek, to Merck & Co., Inc. Dry pharmaceutical vehicle of copolymer of hydrolyzed gelatin and glyoxal, and its production. 3,028,308, 4–3–62, Cl. 167—82.
Zamboldi, George R., and V. A. Nolan, to Speer Carbon Co., Inc. Continuous feed type copper-coated carbon cutting rods. 3,030,544, 4–17–62. Cl. 313—355.
Zamboldi, George R., and H. E. Hanes, to Air Reduction Co., Inc. Metal-graphite brush with welded shunt. 3,067,319, 12–4–62, Cl. 219—117.
Zamboni, Frank J., to Frank J. Zamboni & Co. Ice resurfacing machine. 3,044,193, 7–17–62, Cl. 37—13.
Zamboni, Frank J., & Co.: *See*—
Zamboni, Frank J. 3,044,193.
Zambrow, John L.: *See*—
Sheinhartz, Irving, and Zambrow. 3,050,613.
Zambrow, John L., and S. I. Megeff, to Sylvania Electric Products Inc. Method for casting side supporting plates onto the edges of spaced nuclear fuel plates. 3,020,222, 2–6–62, Cl. 204—154.2.

Zamites, Charles J., Jr., to Thompson Ramo Wooldridge Inc. High frequency filter. 3,024,430, 3–6–62, Cl. 333—73.

Zanaboni, Piero, to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Resinous product, method of making same and use thereof. 3,052,591, 9–4–62, Cl. 156—332.

Zandberg, Paul I. Amalgam carrier. 3,028,672, 4–10–62, Cl. 32—60.

Zanders, J. W., Feinpapierfabrik G.m.b.H., Firma: *See*— Schmidt, Adolf G. M.

Zandman, Felix, to The Budd Co. Photoelastic testing and measurement of mechanical strains. 3,034,395, 5–15–62, Cl. 88—14.

Zandman, Felix, to The Budd Co. Comparison system for photoelastic measurement. 3,039,298, 6–19–62, Cl. 73—88.

Zandman, Felix, and J. Avril, to The Budd Co. Measuring or indicating system and apparatus. 3,034,344, 5–15–62, Cl. 73—141.

Zandman, Felix, and J. Avril, to The Budd Co. Apparatus for investigating polarized light phenomena. 3,062,087, 11–6–62, Cl. 88—14.

Zanetti-Streccia, Giuseppe. Rearview mirror for vehicles. 3,044,359, 7–17–62, Cl. 88—86.

Zangari, Louis A. J.: *See*— Mauly, Raymond J., and Zangari. 3,035,371.

Zangenberg, Henry E.: *See*— McConnell, Jack B., Zangenberg, and Cooper. 3,034,507.

Zanichkowsky, Martin: *See*— Lamb, John M., and Zanichkowsky. 3,030,592.

Zankl, Erich, and R. Hebermehl, ½ to Bayer Aktiengesellschaft, Farbenfabriken, and ½ to Mobay Chemical Co. Process for preparing a fatty oil-polyhydric alcohol-diisocyanate reaction product. 3,045,034, 7–17–62, Cl. 260—404.5.

Zankl, Frank, and J. G. Osburn, to Kearney & Trecker Corp. Program control system. 3,016,804, 1–16–62, Cl. 90—15.

Zankl, Robert H.: *See*— May, Thomas L., and Zankl. 3,043,168.

Zankl, Robert H., to U.S. Rivet Machine Corp. Spin riveting machine. 3,036,727, 5–29–62, Cl. 218—1.

Zanon, Domenico: *See*— Trupiano, Roberto, and Zanon. 3,049,405.

Zanon, Domenico, and R. Trupiano, to I.C.P.M. S.p.A. Industrie Chimiche Porto Marghera. Process for the production of anhydrous hydrogen fluoride. 3,039,850, 6–19–62, Cl. 23—153.

Zanoni, Stephen J.: *See*— Boedigheimer, Raymond J., and Zanoni. 3,064,777.

Zanow, Andrey L., and J. W. Overbeke, deceased (by C. A. Overbeke, administratrix), to National Castings Co. Hydraulic draft gear. 3,033,384, 5–8–62, Cl. 213—43.

Zank, Oliver V.: *See*— McCreary, James T., Van Zant, and Weber. 3,064,244.

Zaorski, Henry J.: *See*— Fuge, Harry B., and Zaorski. 3,021,629.

Zapel, Edwin J.: *See*— Hill, Ronald G., and Zapel. 3,026,720.

Zaphiropoulos, Renn: *See*— Lloyd, William A., and Zaphiropoulos. 3,042,824. Lloyd, William A., and Zaphiropoulos. 3,056,902.

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Zara, Milton H.: *See*— Liberthson, Leo, and Zara. 3,053,674.

Zaratkiewicz, Edwin A., and E. J. Smith, to International Telephone and Telegraph Corp. Semi-conductor rectifiers and method of manufacture. 3,015,591, 1–2–62, Cl. 148—1.5.

Zarbock, Donald T., to General Electric Co. Stems for electrical devices. 3,017,451, 1–16–62, Cl. 174—50.57.

Zarcone, Carl J., to General Dynamics Corp. Synchronizing character generators. 3,020,337, 2–6–62, Cl. 178—2.

Zarcone, Jerome: *See*— Gardiner, Rudolph R., and Zarcone. 3,026,759.

Zaremsky, Baruch: *See*— Buckley, Robert, and Zaremsky. 3,019,205.

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Zaretsky, Albert: *See*— Tellerman, Jacob, and Zaretsky. 3,048,713.

Zargarpur, Rouholah: *See*— Ronney, William L., and Zargarpur. 3,066,541.

Zarleng, Steve A., to The Clark Controller Co. Polarity switching circuit. 3,019,369, 1–30–62, Cl. 315—205.

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Zarleng, Steve A., to The Clark Controller Co. Transistor control circuit with saturable core feedback transformer means. 3,070,710, 12–25–62, Cl. 307—88.5.

Zarn, Jose. Rotary spin device. 3,060,629, 10–30–62, Cl. 46—63.

Zaromb, Solomon. Audio-visual device. 3,029,683, 4–17–62, Cl. 88—16.2.

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Zartl, Josef. Method for producing and impregnated insulating tape with diagonally positioned threads and tape so produced. 3,056,691, 10–2–62, Cl. 117—4.

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Zaruba, John P.: *See*— Bickel, Fay D., and Zaruba. 3,059,444.

Zaruba, Wenzel. Automatic self-serving brewer or dispenser for coffee or other fluid substances. 3,023,790, 3–6–62, Cl. 141—82.

Zastrow, Harold G., to Waldorf Paper Products Co. Diagonal creased cartons. 3,027,063, 3–27–62, Cl. 229—31.

Zastrow, Harold G., to Waldorf Paper Products Co. Carton connecting members. 3,058,644, 10–16–62, Cl. 229—15.

Zatloukal, Antonín, to Závody přesneho strojírenství Gottwaldov, národní podnik. Machine for folding the edges of shoe uppers. 3,016,552, 1–16–62, Cl. 12—55.

Zatsky, Norman C.: *See*— Allen, Alton K., and Zatsky. 3,037,397.

Zatsky, Norman C., to Reeves Instrument Corp. Electromagnetic clutches and brakes. 3,016,118, 1–9–62, Cl. 192—18.

Zattler, Kurt: *See*— Renner, Otfried, and Zattler. 3,035,502.

Zaugg, Harold E., and R. W. De Net, to Abbott Laboratories. Phenylmethylpiperidine derivatives. 3,043,845, 7–10–62, Cl. 260—294.7.

Zausner, Harry: *See*— Morris, Jack, Zausner, and Beaumont. 3,056,882.

Zavarella, Salvatore. Blade for rotary cutter. 3,022,621, 2–27–62, Cl. 56—295.

Zavasnik, Fredrick J., to Phillips Petroleum Co. Method and means for extrusion of elongated shapes from thermoplastic materials. 3,039,142, 6–19–62, Cl. 18—12.

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Zavody Jana Sverny: *See*— Hohoutek, Jindřich, and Kožený. 3,047,691.

Zavody presneho strojirenstni: *See*— Vlček, Jaromír, and Arnošt. 3,032,791. Vlček, Jaromír, and Vajik. 3,035,287.

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Závody přesneho strojírenství Gottwaldov, národní podnik: *See*— Zatloukal, Antonín. 3,016,552.

Zavody presneho strojirenstvi Lisen narodni podnik zavod Antonina Zapotockeho: *See*— Martinek, Josef. 3,046,653.

Zavody V.I. Lenina: *See*— Tichy, Jan. 3,029,573.

Zawacki, John P., to FMC Corp. Gate valve. 3,025,034, 3–13–62, Cl. 251—190.

Zawacki, John P., to Oil Center Tool Co. Wedge seal for valve body. 3,061,268, 10–30–62, Cl. 251—314.

Zawada, Frank A.: *See*— Clampitt, Lawrence L., and Zawada. 3,041,497.

Zawadzki, Antoni. Automatic rocker and glider. 3,019,052, 1–30–62, Cl. 297—260.

Zazove, Alvin H.: *See*— Kramer, Marvin, and Zazove. 3,027,670.

Zbar, Jack J., to Lawtex Corp. Latex reconditioning apparatus. 3,042,212, 7–3–62, Cl. 210—237.

Zbikowski, Ted, to Joseph Buegeleisen Co. Safety helmet. 3,015,101, 1–2–62, Cl. 2—3.

Zboralski, Ulrich, to Victor Chemical Works. Process for treatment of proteinaceous albuminous foods of animal origin. 3,029,148, 4–10–62, Cl. 99—169.

Zbylut, Anthony C.: *See*— Gardner, August M., and Zbylut. 3,044,427.

Zdanowski, Richard E., W. W. Toy, B. E. Larsson, and B. B. Kine, to Rohm & Haas Co. Aqueous shellac acrylonitrile acrylic acid ester, with or without aldehyde condensation products and substrates coated therewith. 3,061,563, 10–30–62, Cl. 260—25.

Zdanowski, Richard E., and W. W. Toy, to Rohm & Haas Co. Shellac copolymers and compositions and methods for making them. 3,061,564, 10–30–62, Cl. 260—27.

Ždárské strojírny a slévárny: *See*— Harvanek, Pavel. 3,035,514.

Zderic, John A.: *See*— Bowers, Albert, Casas-Campillo, Zderic, and Djerassi. 3,067,212. Djerassi, Carl, and Zderic. 3,026,320. Ringold, Howard J., Zderic, Batres, and Rosenkranz. 3,017,419. Ringold, Howard J., Zderic, Djerassi, and Bowers. 3,026,-317.

Zderic, John A., to Syntex Corp. Cyclopentanophenanthrene compounds and process. 3,063,984, 11–13–62, Cl. 260—239.

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Zderic, John A., to Syntex Corp. 11,12-secopregnane-12-oxy-11-oic(11-12)lactones. 3,068,244, 12–11–62, Cl. 260—343.2.

Zderic, John A., and P. Crabbe, to Syntex Corp. Di-17α(Δ⁴-androsten-17β-ol-3-one) butadiyne. 3,051,733, 8–28–62, Cl. 260—397.4.

Zderic, John A., H. J. Ringold, and C. Djerassi, to Syntex Corp. Synthesis of 11β,12β-acetonides of 12β-hydroxyprednisolone. 3,052,676, 9–4–62, Cl. 260—239.55.

Zderic, John A., and H. J. Ringold, to Syntex Corp. 16α-methyl pregnanes. 3,069,413, 12–18–62, Cl. 260—239.5.

Zdrojkowski, Roman : *See*—
Chodacki, Joseph, and Zdrojkowski. 3,020,564.
Zeabari, George J. Smoker's pipe holster. 3,032,244, 5–1–62, Cl. 224—5.
Zearfoss, Elmer W., Jr., to Philco Corp. Control means. 3,028,464, 4–3–62, Cl. 200—141.
Zearfoss, Elmer W., Jr., to Philco Corp. Freezing apparatus. 3,029,609, 4–17–62, Cl. 62—135.
Zearfoss, Elmer W., Jr., to Philco Corp. Hot gas defrostable refrigeration system. 3,033,005, 5–8–62, Cl. 62—151.
Zebarth, Ralph S., to Gordon Johnson Co. Machine for continuous cooling of giblets. 3,022,646, 2–27–62, Cl. 62—381.
Zebarth, Ralph S., to Gordon Johnson Co. System for conveying poultry parts to separate packaging areas. 3,031,823, 5–1–62, Cl. 53—391.
Zebarth, Ralph S., to Gordon Johnson Co. Apparatus for freezing food products. 3,043,319, 7–10–62, Cl. 134—131.
Zebarth, Ralph S., to Gordon Johnson Co. Automatic neck cutter. 3,056,161, 10–2–62, Cl. 17—11.
Zebarth, Ralph S., to Gordon Johnson Co. Overhead track-type conveying system. 3,064,584, 11–20–62, Cl. 104—93.
Zebley, Donald D. Conveyor turn wheel construction. 3,051,011, 8–28–62, Cl. 74—243.
Zebley, Donald D. Turnwheel assemblies for conveyors. 3,067,860, 12–11–62, Cl. 198—177.
Zebrec, David T., to Hercules Powder Co. Matchhead igniters and compositions and method for their manufacture. 3,048,507, 8–7–62, Cl. 149—64.
Zebroski, Edwin L., to General Electric Co. Nuclear fuel element leak detector. 3,070,532, 12–25–62, Cl. 204—193.2.
Zecchinato, Giuseppe. Device for actuating a rotary sprinkler nozzle. 3,019,992, 2–6–62, Cl. 239—230.
Zech, John D., to Atlas Chemical Industries, Inc. Fuel compositions. 3,025,148, 3–13–62, Cl. 44—66.
Zech, John D., to Atlas Chemical Industries, Inc. Polyhydroxy amino ethers and acylation products thereof. 3,029,265, 4–10–62, Cl. 260—404.5.
Zech, John D., to Atlas Chemical Industries, Inc. Cationic surfactants and their preparation. 3,060,182, 10–23–62, Cl. 260—256.4.
Zech, William A. : *See*—
Krouse, LeRoy M., and Zech. 3,064,148.
Zechlin, Richard : *See*—
Henderson, Robert M., and Zechlin. 3,056,913.
Zechnall, Richard : *See*—
Paule, Kurt, Knapp, Zechnall, and Schutte. 3,051,152.
Zechter, Sol, and H. Gruen, to Philco Corp. In-circuit transistor tester. 3,051,900, 8–28–62, Cl. 324—158.
Zednik, Louis, Jr., to Chrysler Corp. Battery holding device. 3,053,336, 9–11–62, Cl. 180—68.5.
Zeek, Elwood R. Oscillating rear view mirror. 3,063,342, 11–13–62, Cl. 88—93.
Zeek, Richard M., and E. E. Flanigan, to General Motors Corp. Speed sensor. 3,039,315, 6–19–62, Cl. 73—497.
Zegers, Edward A. Means for and method of detachably mounting sash guiding weatherstrips in window frames. 3,058,176, 10–16–62, Cl. 20—52.4.
Zegers Inc. : *See*—
Koebel, Thomas P. 3,034,170.
Zehnder, Norbert A., to Sulzer Freres, S.A. Control system for an air curtain sealing the entrance of a building. 3,068,775, 12–18–62, Cl. 98—36.
Zehnder, Walter : *See*—
Braun, Wilhelm, and Zehnder. 3,047,565.
Zehner, William H., to F. E. Myers & Bro. Co. Reciprocating plunger structure. 3,062,600, 11–6–62, Cl. 309—6.
Zeidler, Reinhold C. : *See*—
Nickell, Claude H., and Zeidler. 3,059,730.
Zeidler, Reinhold C., to Borg-Warner Corp. Hydrodynamic coupling devices. 3,024,735, 3–13–62, Cl. 103—111.
Zeidler, Willi, to Firma Rheinmetall, G.m.b.H. Telescopic hydraulic single-tube dashpot, more particularly for use in motor vehicles. 3,042,154, 7–3–62, Cl. 188—100.
Zeidler, Willi, to Rheinmetall G.m.b.H., Firma. Single-tube hydraulic shock absorbers. 3,056,473, 10–2–62, Cl. 188—100.
Zeidman, Robert, to Q-Tips Inc. Carton. 3,044,680, 7–17–62, Cl. 229—17.
Zeigler, Frank E. Shock wave metal forming method and apparatus. 3,044,430, 7–17–62, Cl. 113—44.
Zeigler, Herman A. Fishing rod handle with reel locking device. 3,058,253, 10–16–62, Cl. 43—22.
Zeigler, John M., to Burtek, Inc. Damped anti-skid mechanism. 3,030,464, 4–17–62, Cl. 200—61.46.
Zeigler, John M., to Burtek, Inc. Anti-skid mechanism. 3,049,381, 8–14–62, Cl. 303—20.
Zeigler, Philip B., to General Motors Corp. Powered jack screw assembly. 3,042,372, 7–3–62, Cl. 254—7.
Zeigler, Philip B., to General Motors Corp. Linkage booster with rotary valve. 3,048,234, 8–7–62, Cl. 180—79.2.
Zeigler, Philip B., and W. B. Thompson, to General Motors Corp. Rotary power steering valve with torsion bar centering. 3,022,772, 2–27–62, Cl. 121—41.
Zeigler, Philip B., and R. L. White, to General Motors Corp. Unitized sliding pillar rear suspension. 3,024,039, 3–6–62, Cl. 280—106.5.
Zeigler, Ralph W., and O. R. Harvey, to Fisher Governor Co. Dynamically rebalanced servosystem adapted for liquid level control. 3,041,512, 6–26–62, Cl. 318—22.
Zeilberger, Ernest J. : *See*—
Dixon, Thomas F., Zeilberger, and Langworthy. 3,028,271.
Zeile, Karl : *See*—
Adickes, Franz, and Zeile. 3,052,684.
Hauptmann, Karl H., and Zeile. 3,022,294.
Konz, Wilhelm, and Zeile. 3,030,363.
Konz, Wilhelm C., and Zeile. 3,065,260.
Zeile, Karl, R. Sehring, and P. Schicke, to C. H. Boehringer Sohn. Synergistic fungicidal compositions. 3,030,263, 4–17–62, Cl. 167—14.
Zeilstra, Jan R. Method for the manufacture of bushware with a metal holder in which the fiber tufts consist of thermoplastic material. 3,053,575, 9–11–62, Cl. 300—21.
Zeisloft, Harry C. : *See*—
McCathron, Claude B., Rowe, and Zeisloft. 3,062,310.
Zeisloft, Harry C., to The Bendix Corp. Normal fuel control with acceleration override control for gas turbine engine. 3,021,674, 2–20–62, Cl. 60—39.28.
Zeiss, Carl : *See*—
Anders, Hugo. 3,042,542.
Berger, Guido J. 3,051,053.
Berger, Johannes. 3,024,697.
Brösicke, Paul. 3,044,354.
Eismann, Helmut, Konshack, and Lange. 3,043,192.
Eismann, Helmut, and Lange. 3,038,380.
Haüpt, Eugen, Leinhos, Rilk, Schubart, and Wustemann. 3,033,079.
Kinder, Walter. 3,035,482.
Kohler, Horst. 3,051,050.
Kohler, Horst, and Knutti. 3,043,194.
Kuppenbender, Heinz, Erbe, and Ludwig. 3,054,324.
Lange, Günther, and Zajadatz. 3,043,193.
Lepper, Erich, and Hirschhauser. 3,025,605.
Opitz, Wolfgang. 3,054,962.
Panzer, Siegfried. 3,048,766.
Schleich, Fritz. 3,028,491.
Schleich, Fritz, and Steigerwald. 3,033,974.
Steigerwald, Karl H. 3,016,449.
Unterberger, Richard. 3,038,659.
Zeiher, Gustav. 3,027,645.
Zeiss, Harold H., to Monsanto Chemical Co. Acetylene polymerization and polymers. 3,057,839, 10–9–62, Cl. 260—94.1.
Zeiss, Harold H., and W. Herwig, to Monsanto Chemical Co. Aryl chromium compounds and their preparation. 3,033,-878, 5–8–62, Cl. 260—346.1.
Zeiss Ikon A.G. Stuttgart : *See*—
Sauer, Edgar, Gunther, and Wutzler. 3,045,570.
Van der Mei, Wietse H. 3,016,453.
Zeiss Ikon Aktiengesellschaft : *See*—
Benmann, Heinz. 3,037,419.
Hohmuth, Leopold. 3,037,541.
Krauskopf, Wilhelm. 3,059,360.
Sauer, Edgar. 3,034,411.
Sauer, Edgar, and Hahn. 3,068,769.
Sauer, Edgar, Wutzler, and Hahn. 3,045,568.
Thiele, Heinz, and Ritze. 3,026,769.
Vierling, Otto. 3,039,358.
Zeitlin, Edward J., L. Leighton, and J. Gaon, to Standard Instrument Corp. Predetermining counter. 3,036,767, 5–29–62, Cl. 235—132.
Zeito, George A. : *See*—
Perry, Robert O., Holbert, and Zeito. 3,044,548.
Zekaria, David : *See*—
Mitchell, Thompson, Harris, and Zekaria. 3,017,461.
Zekendorf, Otto, Lady's handbag with fan and warning light. 3,046,366, 7–24–62, Cl. 200—522.
Zekendorf, Otto, Rotary electric switch for lady's handbag. 3,046,366, 7–24–62, Cl. 200—522.
Zelina, William B., to General Electric Co. Electric function network. 3,018,966, 1–30–62, Cl. 235—195.
Zelina, William B., to General Electric Co. Voltage detection network. 3,036,241, 5–22–62, Cl. 317—5.
Zelinka, Richard J. : *See*—
Olmon, Wilfrid E., and Zelinka. 3,046,651.
Zelinski, Alex A. Foundry riddle. 3,047,153, 7–31–62, Cl. 209—408.
Zelinski, Robert P., to Phillips Petroleum Co. Polymerization of conjugated diolefins in the presence of $TiCl_4$, ALRs and O_2. 3,070,587, 12–25–62, Cl. 260—94.3.
Zelinski, Robert P., and D. R. Smith, to Phillips Petroleum Co. Process and catalyst for production of rubbery polymers. 3,050,513, 8–21–62, Cl. 260—94.3.
Zell, Chester K. : *See*—
Bojako, Thomas B., and Zell. 3,070,378.
Zelle, Lester L., to Schield Bantam Co. Wide base crawler. 3,037,571, 6–5–62, Cl. 180—9.48.
Zelleny, Laddie L., and G. S. Buttars, to Elkay Mfg. Co. Counterline appliance and fastening arrangement therefor. 3,040,338, 6–26–62, Cl. 4—187.
Zeller, Carl N., and A. J. Porck, to Celanese Corp. of America. Polymerization of ethylene with catalysts of alkali metal borohydrides, aluminum halides and group IVB metal halides. 3,021,320, 2–13–62, Cl. 260—94.9.
Zeller Corp., The : *See*—
Kimpel, Louis J. 3,055,100.
Zeller, Robert C. 3,037,826.
Zeller, Paul : *See*—
Corrodi, Hans R., Hardegger, Kögl, and Zeller. 3,057,-879.
Gutmann, Hugo, Hegedus, and Zeller. 3,065,265.
Isler, Otto, Montavon, Ruegg, and Zeller. 3,015,680.
Straub, Otto, and Zeller. 3,031,479.

Zeller Plastik Koehn, Grabner & Co.: *See*—
Salzmann, Erhard. 3,057,503.
Zeller, Richard S., to Weltronic Co. Welding apparatus. 3,019,329, 1–30–62, Cl. 219—131.
Zeller, Robert C., to The Zeller Corp. Trunnion bearing. 3,037,826, 6–5–62, Cl. 308—187.1.
Zellerhoff, Bruno, and A. Klapp, to Koppers Co., Inc. Apparatus for gasification of finely-divided fuels. 3,036,906, 5–29–62, Cl. 48—63.
Zelley, Walter G.: *See*—
Keller, Fred, and Zelley. 3,039,898.
Keller, Fred, and Zelley. 3,039,899.
Zelley, Walter G., to Aluminum Co. of America. Treating aluminum surfaces. 3,039,910, 6–19–62, Cl. 156—21.
Zellmer, August R.: *See*—
Gausman, Alfred P., and Zellmer. 3,050,916.
Zellner, Hugo, to Byk-Gulden Lomberg Chemische Fabrik G.m.b.H. Antiphlogistic and choleretic compositions and process of therapeutically using same. 3,019,166, 1–30–62, Cl. 167—65.
Zellner, Hugo, M. Pailer, and G. Fruckmayr, to Donau-Pharmazie Gesellschaft m.b.H. Dihydroquinoxalone-(2) derivatives and process of preparing same. 3,028,384, 4–3–62. Cl. 260—247.2.
Zellner, Robert J., and C. A. R. Johnson, to Ansul Chemical Co. Glycol diether inhibitors. 3,031,511, 4–24–62, Cl. 260—611.5.
Zellstoff, Fabrick Waldhof: *See*—
Reiff, Ferdinand, Huber, and Holle. 3,049,536.
Zellweger Ltd., Uster Factories for Apparatus and Machines: *See*—
Locher, Hans. 3,039,051.
Zelmann, Bruno V. Gate valve with frontally engaging sealing means. 3,044,742, 7–17–62, Cl. 251—197.
Zelnick, Charles, to The Lufkin Rule Co. Woven-type measuring tape. 3,042,990, 7–10–62, Cl. 28—74.
Zelnick, Charles, to The Lufkin Rule Co. Tape measuring construction. 3,044,731, 7–17–62, Cl. 242—84.8.
Zelnick, Seymour: *See*—
Siegel, Martin, and Zelnick. 3,047,991.
Zeltner, Walter, Jr.: *See*—
Eichelman, John M. and B. S., Towsley, F. E. and J. F. Moffett, and Zeltner. 3,025,648.
Zeluff, Wendell C.: *See*—
Bowman, John H., and Zeluff. 3,054,288.
Zeman, James R. Post assembly. 3,037,745, 6–5–62, Cl. 256—54.
Zeman, Kenneth P., to General Electric Co. Electrolytic method of producing thin sheets of aluminum oxide. 3,023,149, 2–27–62, Cl. 204—12.
Zemla, Ewald, to A. G. Durowe. Mechanical oscillating elements for timepieces and the like, and electronic actuating means therefor. 3,046,460, 7–24–62, Cl. 318—132.
Zemla, Ewald, to Durowe A.G. Inertia wound timepiece with magnetic coupling means. 3,058,294, 10–16–62, Cl. 58—82.
Zemme, Caesar, J.: *See*—
Lash, Seymour, and Zemme. 3,045,243.
Zenchenko, William J. Guide means for unsighted bowlers and the like. 3,051,486, 8–28–62, Cl. 273—54.
Zengerer, Hans. Rotary-impact type hand tool. 3,054,312, 9–18–62, Cl. 81—52.3.
Zenith Radio Corp.: *See*—
Adler, Robert. Re. 25,150.
Adler, Robert. 3,058,539.
Adler, Robert, and Druz. 3,029,308.
Collins, George C. 3,016,505.
Combs, Jimmy P., and van Anrooy. 3,024,306.
Eilers, Carl G. 3,070,662.
Eilers, Carl G., Hendrickson, and Herrmann. 3,023,270.
Farquhar, Charles. 3,021,493.
Fyler, George W. 3,029,319.
Galke, Ralph W., and Hathaway. 3,038,728.
Grossenheider, Howard. 3,017,849.
Hardy, Maurice E., and Puls. 3,030,115.
Hermann, Richard C. 3,024,455.
Heuer, Charles H. 3,019,401.
Heuer, Charles H. 3,059,140.
Isabeau, John. 3,023,321.
Morris, George V. 3,043,932.
Polley, Eugene J. 3,058,075.
Polley, Eugene J. 3,070,736.
Salisbury, Winfield W. 3,024,394.
Salisbury, Winfield W. 3,059,149.
Spracklen, John G. 3,028,559.
Spracklen, John G. 3,055,976.
Steglich, Herbert H. 3,037,577.
Szegho, Constantin S. 3,028,521.
Tompson, Clement R. 3,029,772.
Van Jepmond, Howard K. 3,029,309.
Wade, Glen. 3,059,138.
Wandrey, Clarence W. 3,030,462.
Wandrey, Clarence W., and Grossenheider. 3,047,787.
Wertwijn, George. 3,019,352.
Zenner, Raymond E., and H. E. Morris, to Victor Comptometer Corp. Word counter. 3,035,765, 5–22–62, Cl. 235—92.
Zenner, Walter J., to Teletype Corp. Intelligence recording apparatus. 3,056,546, 10–2–62, Cl. 234—109.
Zenobia, John C., Jr.: *See*—
Rakowski, Alexander J., Rollins, and Zenobia. 3,016,506.
Rollins, James E., Rakowski, and Zenobia. 3,024,435.
Zenor, Hughes M., to Sinclair Oil & Gas Co. Photoelectric apparatus. 3,059,119, 10–16–62, Cl. 250—219.
Zens, Pierre M. F., and M. A. J. Honmore. Device for changing speed in gear-boxes. 3,039,320, 6–16–62, Cl. 74—334.
Zent, Clayton M., to Automatic Spot Taping Machine Co. Taping machine. 3,031,368, 4–24–62, Cl. 156—486.
Zent, Lawson J. Collapsible tent, umbrella and the like. 3,037,517, 6–5–62, Cl. 135—4.
Zentgraf, Fritz R. L., to E. L. Wiegand Co. Electric heater assemblies. 3,047,706, 7–31–62, Cl. 219—37.
Zentmyer, David T.: *See*—
Almy, Richard, and Zentmyer. 3,056,224.
Zenzic, John. Tapered locking device. 3,034,611, 5–15–62, Cl. 189—36.
Zepf, Ernst L., 50% to A. Klenk. Scissors construction. 3,065,542, 11–27–62, Cl. 30—266.
Zephyr Mfg. Co.: *See*—
Bidart, Arnaud P. 3,044,366.
Swain, Charles J. 3,051,830.
Zerbe, Howard E. Car tent. 3,040,756, 6–26–62, Cl. 135—3.
Zerbe, Louis J. Ventilating and shock absorbing cushion. 3,058,125, 10–16–62, Cl. 5—347.
Zerbe, Richard M. Means and method of window frame installation. 3,023,464, 3–6–62, Cl. 20—11.
Zerbel, Theodor, to Steeit-Magnesia Aktiengesellschaft, and Indiana General Corp. Ferromagnetic, ceramic body with high quality at high frequency. 3,036,009, 5–22–62, Cl. 252—62.5.
Zerbun, Peter, Jr. Automatic roof ventilator control. 3,027,-990, 3–27–62, Cl. 236—49.
Zerkowitz, Albert. Canvas shoes with rubber soles. 3,029,-823, 4–17–62, Cl. 128—622.
Zerlin, Hans, to Jagenberg-Werke Akt.-Ges. Apparatus for delivering liquids. 3,027,051, 3–27–62, Cl. 222—162.
Zerlin, Hans, and K. Wolber, to Jagenberg-Werke Akt.-Ges. Machine for connecting adjacent edges of box sections with adhesive strips or tapes. 3,069,981, 12–25–62, Cl. 93—56.
Zern, Warren B. System for assembling prehung doors and jambs. 3,015,348, 1–2–62, Cl. 144—2.
Zernell, Stig R.: *See*—
Liedberg, Kurt H., and Zernell. 3,049,805.
Sjöstrand, Fritiof S., Ottosson, and Zernell. 3,019,673.
Zernov, Peter, to Mercury Engineering Corp. Web feed device for rotary printing press. 3,022,727, 2–27–62, Cl. 101—181.
Zernov, Peter, and R. R. Traupmann, to Miehle-Goss-Dexter, Inc. Mechanism for applying a liquid to a rotary cylinder. 3,052,183, 9–4–62, Cl. 101—157.
Zernov, Peter, and G. H. Mahn, to Miehle-Goss-Dexter, Inc. Web tension regulating mechanism for hydraulic rewinders. 3,053,468, 9–11–62, Cl. 242—75.53.
Zernow, Louis: *See*—
Hanes, Vaughan D., and Zernow. 3,032,110.
Lieberman, Irving, Zernow, and Hogan. 3,034,393.
Zero Mfg. Co.: *See*—
Combs, Theodore C., and Dobbie. 3,044,656.
Combs, Theodore C., and Dobbie. 3,044,658.
Duncan, Lloyd P. and L. L. 3,035,543.
Duncan, Lloyd P. and L. L. 3,036,552.
Zerone, Lawrence D.: *See*—
Beaver, Garth H., and Zerone. 3,070,451.
Zerweck, Werner, W. Bulian, W. Kunze, and A. Kiesewetter, to Wintershall Aktiengesellschaft and Cassella Farbwerke Mainkur Aktiengesellschaft. Secondary recovery of oil. 3,020,953, 2–13–62, Cl. 166—42.
Zerwes, Paul J., to Chicago Magnet Wire Corp. Wire enameling die. 3,024,762, 3–13–62, Cl. 118—125.
Zerwick, John H., to North American Aviation, Inc. Aircraft door latch. 3,050,325, 8–21–62, Cl. 292—218.
Zeuthen & Aagaard A/S: *See*—
Bussey, Peter E. 3,029,731.
Zeutschel, Heinz M.: *See*—
Kuehnle, Manfred R., Zeutschel, and Wilson. 3,042,201.
Melchman, W Gordon, and Zeutschel. 3,042,199.
Zeyen, Fritz-Otto, to Dr. -Ing Hell, Rudolf Kommanditgesellschaft. Electronic apparatus for obtaining for reproduction purposes corrected color extractions from uncorrected color extractions. 3,026,039, 3–20–62, Cl. 235—180.
Z'Graggen, Walter. Lined dispensing carton. 3,062,427, 11–6–62, Cl. 229—14.
Zhivadinovich, Milka R. and R. High energy fuel and explosive. 3,066,139, 11–27–62, Cl. 260—242.
Zhivadinovich, Radivoje: *See*—
Zhivadinovich, Milka R. and R. 3,066,139.
Zia, Yee C. Safety adjustable-seat mounting for front seat of a vehicle. 3,022,976, 2–27–62, Cl. 248—430.
Ziak, Erna E. Waterproofing compositions. 3,021,225, 2–13–62, Cl. 106—78.
Ziarnik, George A., to Esso Research and Engineering Co. Composition comprising halogenated butyl rubber, a metal thiocarbamate and a dimethylol phenol, process for vulcanizing same, and vulcanized product thereof. 3,036,027, 5–22–62, Cl. 260—43.
Ziarnik, George J., to Esso Research and Engineering Co. Process comprising heat-treating halogenated butyl rubber in the presence of a novolak resin and thereafter curing, and product obtained thereby. 3,050,479, 8–21–62, Cl. 260—19.
Zibbell, Elmore L.: *See*—
Heiser, Warren R., and Zibbell. 3,054,178.
Zibbell, Elmore L., to Ferro Stamping Co. Can opener. 3,032,872, 5–8–62, Cl. 30—8.

Zibbell, Elmore L., to Ferro Stamping Co. Seat adjusting mechanism. 3,036,806, 5–29–62, Cl. 248—393.
Zickefoose, Ellis J., to Amsted Industries Inc. Pouring spout and method of using. 3,054,155, 9–18–62, Cl. 22—209.
Zickendraht, Christian: *See*—
Buehler, Arthur, Fasciati, and Zickendraht. 3,041,327.
Zidar, Louis P.: *See*—
Shaffer, Paul C., Stratton, and Zidar. 3,034,778.
Zieba, Frederick W.: *See*—
Bianco, Ernest E., and Zieba. 3,059,043.
Zief, Morris, and C. H. Schramm, to J. T. Baker Chemical Co. Process for preparing vinylene carbonate. 3,041,353, 6–26–62, Cl. 260—34.2.
Ziegler, Arthur W.: *See*—
Richard, Charles D., and Ziegler. 3,046,555.
Ziegler, Carl: *See*—
Bornemann, Dieter, Dohr, Renner, and Ziegler. 3,023,-242.
Ziegler, Carl, to Merck & Co., Inc. Derivatives of benzothiadiazine-1,1-dioxide. 3,060,178, 10–23–62, Cl. 260—243.
Ziegler, Carl, to Merck & Co., Inc. Novel method for preparing disulfamyl aniline compounds. 3,066,156, 11–27–62, Cl. 260—397.7.
Ziegler, Erich, to Geigy Chemical Corp. New derivatives of the 6H-1,3-thiazine series. 3,062,816, 11–6–62, Cl. 260—243.
Ziegler, Erich, U. Rossmann, and F. Litvan, to Geigy Chemical Corp. 3-benzyl-4-hydroxycoumarin and a process for the preparation of derivatives of 3-benzyl-4-hydroxy coumarin. 3,022,317, 2–20–62, Cl. 260—343.2.
Ziegler, Erich, and F. Litvan, to Geigy Chemical Corp. Basic ethers of N-heterocyclic compounds. 3,052,678, 9–4–62, Cl. 260—243.
Ziegler, Eugene R.: *See*—
Hart, John G., and Ziegler. 3,036,911.
Kosbab, Kenneth A., and Ziegler. 3,063,299.
Schmitz, Harry W., and Ziegler. 3,052,492.
Ziegler, Eugene R., to General Motors Corp. Windshield wiper drive mechanism. 3,016,753, 1–16–62, Cl. 74—95.
Ziegler, Eugene R., to General Motors Corp. Windshield washer control system. 3,016,836, 1–16–62, Cl. 103—26.
Ziegler, Eugene R., to General Motor Corp. Windshield wiper mechanism. 3,025,554, 3–20–62, Cl. 15—250.17.
Ziegler, Eugene R., to General Motors Corp. Windshield wiper arm attachment. 3,036,847, 5–29–62, Cl. 287—53.
Ziegler, Eugene R., to General Motors Corp. Pump and control system therefor. 3,055,304, 9–25–62, Cl. 103—25.
Ziegler, Eugene R., to General Motors Corp. Windshield wiper parking switch. 3,059,264, 10–23–62, Cl. 15—250.17.
Ziegler, Eugene R., to General Motors Corp. Windshield wiper blade. 3,060,480, 10–30–62, Cl. 15—250.42.
Ziegler, Eugene R., to General Motors Corp. Windshield wiper motors. 3,070,733, 12–25–62, Cl. 318—135.
Ziegler, George E., to Concrete Thermal Casings, Inc. Heat distribution system and method of making same. 3,045,708, 7–24–62, Cl. 138—106.
Ziegler, George F.: *See*—
Ruben, Paul L., and Ziegler. 3,041,934.
Schwartz, John M., and Ziegler. 3,030,863.
Ziegler, George W., Jr.: *See*—
Allen, John W., Lerch, and Ziegler. 3,048,650.
Ziegler, Herman A. Fishing rod handle with reel locking device. 3,068,603, 12–18–62, Cl. 43—22.
Ziegler, John B.: *See*—
Hunger, Alfred, and Ziegler. 3,048,603.
Ziegler, John C., L. R. Beauregard, and H. Langer, to The Bendix Corp. Control stick. 3,057,585, 10–9–62, Cl. 244—83.
Ziegler, Joseph, to Link Division of General Precision, Inc. Simulated aircraft instruments. 3,067,529, 12–11–62, Cl. 35—12.
Ziegler, Karl: *See*—
Natta, Giulio, Pino, and Mazzanti. 3,037,972.
Ziegler, Karl, H. G. Gellert, and K. Nagel (by K. Ziegler, assignee). Production of alkyl aluminum hydrides and their complex compounds with alkali hydrides. Re. 25,179, 5–29–62, Cl. 260—448.
Ziegler, Karl, H.-G. Gellert, and E. Bonitz; said Bonitz and said Gellert assors. to said Ziegler. Dialkyl aluminum hydrides and their production. 3,015,669, 1–2–62, Cl. 260—448.
Ziegler, Karl, and H.-G. Gellert, said Gellert assor. to said Ziegler. Production of aluminum trialkyls and aluminum alkyl hydrides. 3,032,574, 5–1–62, Cl. 260—448.
Ziegler, Karl, R. Koster, and W.-R. Kroll; said Koster and said Kroll assors. to said Ziegler. Process for the reaction of organic aluminum compounds with olefins. 3,066,162, 11–27–62, Cl. 260—448.
Ziegler, Karl, and H. Lehmkuhl; said Lehmkuhl assor. to said K. Ziegler. Process for the production of tetraethyl lead. 3,069,334, 12–18–62, Cl. 204—59.
Ziegler, Karl, H. Breil, E. Holzkamp, and H. Martin; said Breil, Holzkamp, and Martin assors. to said Ziegler. Polymerization catalysts. 3,070,549, 12–25–62, Cl. 252—429.
Ziegler, Louis C. Device for dispensing small measured quantities of a medium. 3,064,858, 11–20–62, Cl. 222—49.
Ziegler, Paul F., to Fansteel Metallurgical Corp. Method and apparatus for making powdered metal articles. 3,051,-567, 8–28–62, Cl. 75—214.
Ziegler, Sigurd: *See*—
Gantschnigg, Gottfried K., and Ziegler. 3,029,688.
Zieher, Gustav, to Carl Zeiss. Goniometers. 3,027,645, 4–3–62, Cl. 33—1.
Ziehike, Robert J., to Gibbs Mfg. & Research Corp. Transient filter. 3,026,757, 3–27–62, Cl. 84—1.19.
Ziehike, Robert J., to Gibbs Mfg. & Research Corp. Tremolo producing means for an electrical musical instrument. 3,026,758, 3–27–62, Cl. 84—1.25.
Ziehm, Günther, and H. Saur, to Telefunken G.m.b.H. Antenna coupling in direction finding systems. 3,035,265, 5–15–62, Cl. 343—113.
Zielasek, Gotthold, to Robert Bosch, G.m.b.H. Alloyed junction semiconductive device. 3,032,695, 5–1–62, Cl. 317—234.
Zielasek, Gotthold, to Robert Bosch G.m.b.H. Semi-conductor device. 3,037,155, 5–29–62, Cl. 317—234.
Zielinski, Edmund A. Dust guard for a freshly painted motor vehicle. 3,055,381, 9–25–62, Cl. 135—7.1.
Zielinski, Frank E. Motor grader. 3,015,174, 1–2–62, Cl. 37—156.
Ziemann, A., G.m.b.H.: *See*—
Sandmann, Emil. 3,039,611.
Ziemer, Waldemar: *See*—
Schmidt, Heinz, Reinshagen, Ziemer, and Holzinger. 3,063,312.
Ziemski, Joseph B., to American Optical Co. Carrying cases. 3,062,364, 11–6–62, Cl. 206—38.
Zienty, Mitchell F., to Miles Laboratories, Inc. Purification of nicotinic acid. 3,037,987, 6–5–62, Cl. 260—295.5.
Zierick, Robert A. Hydraulic clutch and turbine drive. 3,058,557, 10–16–62, Cl. 192—58.
Zies, Carl W., to International Basic Economy Corp. Screw press worm design. 3,034,424, 5–15–62, Cl. 100—145.
Ziff, Seymour, to Cory Corp. Heat massage pad. 3,062,-203, 11–6–62, Cl. 128—24.1.
Ziffer, Garret F., to Laboratory For Electronics, Inc. Servomotor control system. 3,024,404, 3–6–62, Cl. 318—484.
Ziffer, Garret F., to Laboratory for Electronics, Inc. Control system. 3,067,939, 12–11–62, Cl. 235—183.
Ziffer, Jack, to Pabst Brewing Co. Treatment of plants. 3,040,481, 6–26–62, Cl. 167—65.
Ziffer, Jack, to Pabst Brewing Co. Phytoactin and phytostreptin antifungal. 3,067,102, 12–4–62, Cl. 167—65.
Ziffer, Jack, and T. J. Cairney, to Pabst Brewing Co. Bacitracin compositions and production thereof. 3,025,216, 3–13–62, Cl. 167—53.1.
Ziffer, Jack, F. Chow, T. J. Cairney, and S. I. Bennett, to Pabst Brewing Co. Polyaminohygrostreptin and production thereof. 3,032,470, 5–1–62, Cl. 167—65.
Ziffer, Jack, S. Bennett, T. J. Cairney, and A. W. Chow, to Pabst Brewing Co. Polyamidodrohygrostreptin. 3,032,-471, 5–1–62, Cl. 167—65.
Ziffer, Jack, and T. J. Cairney, to Pabst Brewing Co. Lignin-bacitracin complex as growth stimulant and bacitracin purifier. 3,035,919, 5–22–62, Cl. 99—2.
Ziffer, Walter, to General Motors Corp. Sealing strip assembly. 3,020,606, 2–13–62, Cl. 20—69.
Zigzel, Robert, to North American Philips Co., Inc. Resistance strain guage operating with transformation. 3,033,-034, 5–8–62, Cl. 73—141.
Zigmund, Harold F.: *See*—
Reif, Myler W., Goelz, and Zigmund. 3,070,323.
Zilahy, Edward Z., to Standard Tool and Mfg. Co. Article transfer mechanism. 3,018,006, 1–23–62, Cl. 214—1.
Zilg, George L.: *See*—
Szuba, Walter D., and Zilg. 3,026,836.
Zill, Edwin O., to Argus Inc. Camera and detachable lens. 3,057,278, 10–9–62, Cl. 95—44.
Zillert, Hans: *See*—
Halverscheid, Herbert. 3,016,319.
Nauen, Alfred, and Halverscheid. 3,052,448.
Zilliox, Arthur J., to Xcelite, Inc. Part gripping device for hand tools. 3,069,946, 12–25–62, Cl. 81—125.
Zillman, Jack H., R. W. Wagoner, G. H. Williams, and F. W. Sharp, to U.S. Industries, Inc. Fluid-actuated double acting pump apparatus. 3,027,849, 4–3–62, Cl. 103—228.
Zillmer, Erich, to Voigtlander, A.G. Light output modifying arrangement for slide projectors. 3,019,704, 2–6–62, Cl. 88—26.
Zillmer, Erich. Focusing mechanism for projector. 3,028,-788, 4–10–62, Cl. 88—26.
Zilver, Edwin, to N.V. Inland. Device for the manufacture of imprinted matches. 3,017,910, 1–23–62, Cl. 144—50.
Zima, Herbert, to Röhm & Haas G.m.b.H. Elution of precious metal salts and eluants therefor. 3,018,176, 1–23–62, Cl. 75—118.
Zima, Herbert, to Rohm & Haas G.m.b.H. Separation of metal salts from aqueous solutions. 3,022,145, 2–20–62, Cl. 23—309.
Zima, Herbert, to Rohm & Haas G.m.b.H. Method for making cyanogen. 3,031,265, 4–24–62, Cl. 23—151.
Zima, Herbert, to Rohm & Haas G.m.b.H. Process for the production of cyanogen and cyanic acid by oxidation of hydrogen cyanide and the preparation of urethanes and allophanic acid ester therefrom. 3,032,582, 5–1–62, Cl. 260—482.
Zimarik, John, to International Laundry Machinery Co. Apparatus for washing and water-extracting clothes. 3,052,-113, 9–4–62, Cl. 68—242.
Zimbel, Norman S., to Minneapolis-Honeywell Regulator Co. Electrical switching apparatus. 3,051,849, 8–28–62, Cl. 307—88.5.

Zimberoff, Manuel : *See*—
Nechtow, Mitchell J., Zimberoff, and Reich.
3,069,081.
Zimmer, Frantisek, to Bureau d'Etudes Industrielles Fernand Courtoy. Structure for joining by fusion-welding of ferritic steel with austenitic steel. 3,052,016, 9–4–62, Cl. 29—196.1.
Zimmer, Hans W., and J. M. Holbert, to The Chattanooga Medicine Co. Butyrolactone derivatives. 3,030,361, 4–17–62, Cl. 260—240.
Zimmer, Hans W., and J. M. Holbert, to The Chattanooga Medicine Co. Butyrolactone derivatives. 3,031,446, 4–24–62, Cl. 260—240.
Zimmer, Hans W., and J. M. Holbert, to The Chattanooga Medicine Co. Butyrolactone derivatives. 3,031,448, 4–24–62, Cl. 260—240.6.
Zimmer, Heinrich. Safety brake system. 3,050,345, 8–21–62, Cl. 303—84.
Zimmer, Johannes, Maschinenfabrik : *See*—
Kraft, Rupert. 3,067,718.
Zimmer, John S., to General Electric Co. Method of manufacturing circuit controlling devices. 3,057,047, 10–9–62, Cl. 29—155.55.
Zimmer Mfg. Co. : *See*—
Bonta Joseph A. 3,035,581.
Zimmer, William F., Jr., to Hooker Chemical Corp. Synthesis of polyhydroxy aromatic compounds. 3,028,410, 4–3–62, Cl. 260—461.
Zimmer, William G., A. C. Behringer, V. J. Hilgoe, and S. E. Sheffer, to Miehle-Goss-Dexter, Inc. Apparatus affording interchange of cylinders in printing presses. 3,039,387, 6–19–62 Cl. 101—216.
Zimmer, William G., R. G. Peterson, P. E. F. Loew, and L. S. Tyma, Jr., to Miehle-Goss-Dexter, Inc. Printing unit drive. 3,067,675. 12–11–62, Cl. 101—220.
Zimmerer, Roger E., to The Procter & Gamble Co. Process for preparing dialkyl alkyl phosphonates. 3,064,031, 11–13–62, Cl. 260—461.
Zimmerli, Robert B., to The Polymer Corp. Coating process and apparatus. 3,032,816, 5–8–62, Cl. 18—15.
Zimmerli, William F. Process of producing a perforated thermoplastic sheet. 3,054,148, 9–18–62, Cl. 18—56.
Zimmerman, Bernard J. : *See*—
Arnes, Lyle L., and Zimmerman. 3,062,500.
Zimmerman, Charles T. : *See*—
King, Louis T., and Zimmerman. 3,029,095.
Zimmerman, Christian B. : *See*—
Mowery, Jesse R., Jr., and Zimmerman. 3,038,109.
Zimmerman, Clarence R. Warning signal light for firearms. 3,044,204, 7–17–62, Cl. 42—84.
Zimmerman, Eugene and W. Neckties and process of manufacturing the same. 3,036,311, 5–29–62, Cl. 2—146.
Zimmerman, Francis W. : *See*—
Steyskal, Rex F. 3,037,405.
Zimmerman, Gilbert A. : *See*—
Batchelder, George W., and Zimmerman. 3,058,858.
Zimmerman, Hans. Measuring instruments. 3,021,602, 2–20–62. Cl. 33—170.
Zimmerman, Harry, and I. Share, to Polarad Electronics Corp. Carrier wave overload protector having varactor diode resonant circuit detuned by overvoltage. 3,067,394, 12–4–62, Cl. 333—17.
Zimmerman, Henry E. : *See*—
Adams, Paul L., Zimmerman, and Bailey. 3,066,722.
Zimmerman, Henry G. Portable folding stove. 3,025,849, 3–20–62, Cl. 126—43.
Zimmerman, Hollis P. : *See*—
Merrill, Bennet W., Fields, and Zimmerman. 3,040,806.
Zimmerman, Jack C. : *See*—
Steyskal, Rex F. 3,037,405.
Zimmerman, Joseph, to E. I. du Pont de Nemours and Co. Textile fibers and their manufacture. 3,038,235, 6–12–62, Cl. 28—82.
Zimmerman, Joseph W. : *See*—
Hobson, William V., and Zimmerman. 3,039,634.
Zimmerman, Leon H., Jr., to E. I. du Pont de Nemours and Co. Apparatus for imposing tension of running yarn. 3,053,473, 9–11–62, Cl. 242—149.
Zimmerman, Max : *See*—
Lubersky, Albert R., and Winters. 3,046,937.
Zimmerman, Mildred, Luther Müller, and Zimmerman. 3,047,502.
Zimmerman, Milford S. : *See*—
Livermont, Frank W. 3,039,340.
Livermont, Frank W. 3,050,978.
Zimmerman Packing Co., The : *See*—
Zimmerman, Ralph C. 3,027,640.
Zimmerman, Ralph C. 3,057,065.
Zimmerman, Ralph C., to Zimmerman Packing Co. Cutting tool. 3,027,640, 4–3–62, Cl. 30—310.
Zimmerman, Ralph C., to The Zimmerman Packing Co. Gasket cutter. 3,057,065, 10–9–62, Cl. 30—329.
Zimmerman, Richard F. : *See*—
Kampert, Keith W., and Zimmerman. Re. 25,207.
Zimmerman, Richard F., to The Frank G. Hough Co. Reciprocating hydraulic motor. 3,066,001, 11–27–62, Cl. 309—4.
Zimmerman, Wade N., Jr. Ditching machine. 3,018,572, 1–30–62, Cl. 37—90.
Zimmerman, William : *See*—
Zimmerman, Eugene and W. 3,036,311.
Zimmermann, Alois : *See*—
Tschumi, Otto, Kappeler, Blochlinger, and Zimmermann. 3,022,493.
Zimmermann, Ernst, to Machine Tool Works Oerlikon, Administration Co. Ten key adding listing machine. 3,066,-862, 12–4–62, Cl. 235—60.
Zimmermann, Heinrich, and H. Hermann, to Gebr. Steidinger K.G. Indicating device for the contact weight of phonograph pick-ups. 3,020,051, 2–6–62, Cl. 274—23.
Zimmermann & Jansen Gesellschaft mit Beschrankter Haftung : *See*—
Jansen, Hermann, and Walther. 3,034,775.
Jansen, Hermann, and Walther. 3,051,465.
Scholl, Bernhard. 3,039,522.
Walther, Ludwig. 3,051,463.
Zimmermann, Joseph J., to Electronic Secretary Industries, Inc. Automatic scanning control. 3,047,663, 7–31–62, Cl. 179—6.
Zimmermann, Joseph J., to Electronic Secretary Industries, Inc. Recording and reproducing mechanism of a telephone answering device. 3,050,585, 8–21–62, Cl. 179—6.
Zimmermann, Joseph J., to Electronic Secretary Industries, Inc. Integrating control timer. 3,067,289, 12–4–62, Cl. 179—6.
Zimmermann, Markus, to G. D. Searle & Co. 1,3-cyclohexanedione bis-(N-pyridinecarboxyhydrazones). 3,015,663, 1–2–62, Cl. 260—295.
Zimmermann, Rolf : *See*—
Greth, Arthur, and Zimmermann. 3,022,604.
Zimmermann, Rolf, to Chemische Werke Albert. Copolymerization of acrolein with an epoxy compound in the presence of a thioamide catalyst, and product obtained thereby. 3,028,362, 4–3–62, Cl. 260—45.5.
Zimmermann, Theo, and A. Ullrich, to Dango & Dienenthal K.G. Power-operated forging tongs. 3,036,854, 5–29–62, Cl. 294—88.
Zimont, Leonard J. : *See*—
Hopkins, Ervin W., and Zimont. 3,049,428.
Zimpel, Adolf, to Stahl- und Rohrenwerke Reisholz G.m.b.H. Method of producing seamless tubular articles. 3,036,696, 5–29–62, Cl. 205—7.
Zimsky, John J. : *See*—
Mocker, William A., Packard, and Zimsky. 3,058,160.
Zinaman, Harold J. : *See*—
Cubberley, Richard H., Harold, and Zinaman. 3,020,184.
Zindel, Ernst : *See*—
Wingbermuhle, Berthold, and Zindel. 3,034,368.
Zindel, Ernst Karl. Vending machine with time controlled coin return. 3,023,874, 3–6–62, Cl. 194—10.
Zindler, Roger R., to Lambert Brake Corp. Self-adjusting disc brake. 3,053,345, 9–11–62, Cl. 188—72.
Zing Corp. : *See*—
Schneider, Ted. 3,032,275.
Zingale, Nunzio : *See*—
Farkas, Robert D., and Zingale. 3,035,960.
Zingg, Warren M., to The Dow Chemical Co. Method of cleaning tube bundles. 3,060,064, 10–23–62, Cl. 134—2.
Zingg, Warren M., to The Dow Chemical Co. Hydraulic jetting tool. 3,066,735, 12–4–62, Cl. 166—55.
Zingone, Anthony E., to Neo-Ray Products, Inc. Louvered ceiling construction. 3,050,162, 8–21–62, Cl. 189—82.
Ziniuk, Michael A., and W. E. Chapelle, to The Bendix Corp. Indicating systems. 3,037,383, 6–5–62, Cl. 73—194.
Zink, John, Co. : *See*—
Reed, Robert D. 3,055,417.
Reed, Robert D. 3,061,001.
Reed, Robert D. 3,062,275.
Reed, Robert D. 3,064,956.
Zink, John S., Jr., Duncan, Edwards, and Reed. 3,033,-273.
Zink, John S., Jr., R. P. Duncan, O. P. Edwards, and R. D. Reed, to John Zink Co. Fuel burner assembly. 3,033,273, 5–8–62, Cl. 158—7.
Zink, Leonard N., and A. C. Tunick. Method of removing snow. 3,061,480, 10–30–62, Cl. 134—6.
Zinke, Otto H., to Paradynamics, Inc. Coin testing apparatus. 3,059,749, 10–23–62, Cl. 194—100.
Zinke, Robert L., to Sperry Rand Corp. Voltage generating circuit having an output trigger voltage that rises abruptly at a predetermined time. 3,049,672, 8–14–62, Cl. 328—178.
Zinke, Robert L., to Sperry Rand Corp. Random pulse generator. 3,049,676, 8–14–62, Cl. 331—78.
Zinn, Clarence A., to Hammond Machinery Builders, Inc. Mechanical device. 3,066,454, 12–4–62, Cl. 51—144.
Zinn, Eli, C. E. Entemann, J. H. Perkins, Jr., and W. N. Wheeler, to Diamond Alkali Co. Production of dimethyl tetrachloroterephthalate. 3,052,712, 9–4–62, Cl. 260—475.
Zinn, Joe T. : *See*—
Salmon, David F., and Zinn. 3,048,389.
Salmon, David F., and Zinn. 3,048,390.
Zinn, Samuel V., Jr. : *See*—
Ainslie, Robert E., Comisarow, Hutchins, and Zinn. 3,064,568.
Zinn, Walter H., to Curtiss-Wright Corp. Apparatus for production of radioactive isotopes. 3,049,484, 8–14–62, Cl. 240—193.2.
Zinniger, Theodore C. : *See*—
Cameron, William M., and Zinniger. 3,055,529.
Zinniger, Theodore C., to Kaiser Industries Corp. Rotary ball valve. 3,016,062, 1–9–62, Cl. 137—270.
Zinnow, Henry. Exercising apparatus. 3,022,072, 2–20–62, Cl. 272—78.
Zinser Textilmaschinen G.m.b.H. : *See*—
Ancarani, Giorgio. 3,044,249.
Zinsstag, Christoph : *See*—
Mathey, Pierre, and Zinsstag. 3,065,268.
Zint, George. Typewriter writing continuously in opposite directions. 3,036,685, 5–29–62, Cl. 197—84.

Zintel, Clarence C. Coat hanger cover. 3,033,430, 5–8–62, Cl. 223—98.
Zinty, Marcel J., to Magnus Chemical Co., Inc. Method and apparatus for cleaning tubes and the like. 3,047,436, 7–31–62, Cl. 134—23.
Zion, Moses, to The Lionel Corp. Collapsible toy bridge. 3,020,672, 2–13–62, Cl. 46—17.
Zion, Moses, to The Lionel Corp. Toy railroad cars. 3,046,696, 7–31–62, Cl. 46—218.
Zion, Moses, to The Lionel Corp. Uncoupler track. 3,056,512, 10–2–62, Cl. 213—211.
Zion, Moses, to The Lionel Corp. Culvert unloader. 3,059,783, 10–23–62, Cl. 212—87.
Zion, Moses, to The Lionel Corp. Toy railway truck. 3,064,588, 11–20–62, Cl. 105—182.
Zipper, Walter J. Solenoid construction. 3,050,663, 8–21–62, Cl. 317—186.
Zirconal Processes Ltd.: *See*—
Shaw, Clifford. 3,057,937.
Shaw, Clifford. 3,060,543.
Zirinsky, Stanley: *See*—
London, Gilbert J., and Zirinsky. 3,054,671.
Zirkle, Charles L.: *See*—
Kaiser, Carl, and Zirkle. 3,059,020.
Kaiser, Carl, and Zirkle. 3,068,283.
Zirkle, Charles L., to Smith Kline & French Laboratories. Spiro derivatives of thiaxanthenes and xanthenes. 3,048,595, 8–7–62, Cl. 260—293.4.
Zirm, Konrad L., and H. Weichsel, to Lannacher Heilmittel Gesellschaft m.b.H. Nicotinic acid esters and their preparation. 3,057,856, 10–9–62, Cl. 260—239.5.
Ziroli, Alfred E.: *See*—
Cagan, Bernard J., Ziroli, and Harestad. 3,037,750.
Ziserman, Martin, and F. S. Preston, to United Aircraft Corp. Arbitrary function analogue-to-digital converter. 3,066,865, 12–4–62, Cl. 235—154.
Ziskind, Joseph F., to International Harvester Co. Vane type oil pump lubrication system. 3,065,707, 11–27–62, Cl. 103—136.
Zisman, William A., and L. Pickett. Method of protecting a metal surface with a coating of primary-n-octadecylamine and article produced thereby. 3,015,580, 1–2–62, Cl. 117—133.
Zisman, William A., and V. G. Fitzsimmons, to United States of America, Navy. Bullets. 3,040,662, 6–26–62, Cl. 102—93.
Zitelli, Louis T., and C. E. Ward, to Varian Associates. Klystron electron tube apparatus. 3,036,237, 5–22–62, Cl. 315—5.19.
Zitko Ronald F., to International Harvester Co. Seed tape planter. 3,065,605, 11–27–62, Cl. 61—72.6.
Zitney, John M., Jr., to United States Steel Corp. Safety latch for crane lift hook. 3,044,134, 7–17–62, Cl. 24—238.
Zitnik, Leonard C., to The Pure Oil Co. Check digit computing apparatus. 3,033,450, 5–8–62, Cl. 235—83.
Zito, George V., and E. A. Chilton, to The Bendix Corp. Ion air density sensor and altitude indicator control system. 3,044,012, 7–10–62, Cl. 324—32.
Zito, Ralph, to American Machine & Foundry Co. Impact indicating system. 3,022,076, 2–20–62, Cl. 273—102.2.
Zito, Ralph, Jr., to Westinghouse Electric Corp. Beam scanning apparatus. 3,040,625, 6–26–62, Cl. 88—61.
Zittle, John H., to Howe Sound Co. Insulated curtain wall structure. 3,062,337, 11–6–62, Cl. 189—34.
Zivi, Edwin L. Orthopedic tensioning assembly. 3,060,929, 10–30–62, Cl. 128—75.
Zizzi, Giovanni. Rocket emergency braking device. 3,064,762, 11–20–62, Cl. 188—2.
Zlatkis, Albert: *See*—
Ridgway, John A., Jr., and Zlatkis. 3,030,191.
Zletz, Alex: *See*—
Carmody, Don R., and Zletz. 3,066,478.
Zlotek, Thaddeus F., to Formsprag Co. Sprag and retainer assembly. 3,049,206, 8–14–62, Cl. 892—45.1.
Zocholl, Stanley E.: *See*—
Atherton, Edward W., and Zocholl. 3,050,676.
Zocholl, Stanley E., to I-T-E Circuit Breaker Co. Bar linkage for voltage compensated phase shifter. 3,018,434, 1–23–62, Cl. 323—120.
Zoellner, Weldon J. Storm sash. 3,024,503, 3–13–62, Cl. 20—95.
Zoglio, Joseph L. Time interval device. 3,054,992, 9–18–62, Cl. 340—309.4.
Zola, Meyer J.: *See*—
Finkler, Ronald A., Pomerance, Goldman, and Zola. 3,056,111.
Zolezzi, Walter M., and M. L. Brandt, to O'Brien, Spotorno, Mitchell & Compagno Bros., Inc. Boneless stuffed chicken legs. 3,031,310, 4–24–62, Cl. 99—174.
Zoller, Howard F.: *See*—
Stonehill, Albert A., and Zoller. 3,057,471.
Zoller, Ronald E., to The Babcock & Wilcox Co. Vapor generating unit. 3,033,179, 5–8–62, Cl. 122—510.
Zollinger, Hans, to Ruti Machinery Works Ltd. formerly Casnas Honegger. Shuttle positioning means. 3,064,690, 11–20–62, Cl. 139—155.
Zollinger, Heinrich: *See*—
Bosshard, Hans H., and Zollinger. 3,045,019.
Bosshard, Hans H., and Zollinger. 3,045,029.
Bosshard, Hans H., and Zollinger. 3,051,542.
Zollinger, Howard A., to Westinghouse Electric Corp. D.C. series brake control for A.C. motor drives. 3,049,656, 8–14–62, Cl. 318—367.
Zollinger, Joseph L. M.: *See*—
Ney, William O., Jr., and Zollinger. 3,057,874.
Zollinger, Walter, to Maschinenfabrik Schweiter A.G. Grooved drum with insertion pins. 3,022,021, 2–20–62, Cl. 242—43.2.
Zoltanski, Edward F., to Continental Can Co., Inc. Light source for photoelectric inspection of glassware. 3,069,553, 12–18–62, Cl. 250—222.
Zoltok, Harry. Engine cooling and vehicle heating and ventilating unit. 3,026,042, 3–20–62, Cl. 237—12.3.
Zombory, Janos: *See*—
Pápa, Alfréd, Szilvay, and Zombory. 3,044,455.
Zomer, Giuseppe. Hydraulic automatic control device, more particularly for machine tools. 3,051,197, 8–28–62, Cl. 137—622.
Zompa, Thomas A., to Trina, Inc. Method of making a foldable travel mirror construction. 3,020,188, 2–6–62, Cl. 156—221.
Zone, Charles J. Sky scanning device. 3,051,036, 8–28–62, Cl. 88—1.
Zonen, N.V.: *See*—
Schneider, Henri W. 3,043,991.
Schneider, Henri W., and Leenhouts. 3,052,826.
Zonolite Co.: *See*—
Hayes, John C. 3,062,753.
Robinson, Gilbert C. 3,030,218.
Zook, Robert L., to General Motors Corp. Lamp mounting. 3,067,489, 11–6–62, Cl. 248—27.
Zorgdrager, Maurrice M., and M. R. Jones, to Cameron Iron Works, Inc. High and low pressure cut-off valve. 3,042,057, 7–3–62, Cl. 137—70.
Zorn, Anthony: *See*—
Kloisek, Joseph, and Zorn. 3,043,458.
Zorn, Bruno, and G. Mauthe, to Farbenfabriken Bayer Aktiengesellschaft. Dicyandiamide formaldehyde condensation products and their production. 3,015,649, 1–2–62, Cl. 260—69.
Zorn, Bruno, W. Luck, and G. Mauthe, to Farbenfabriken Bayer Aktiengesellschaft. Process for the filling of leather. 3,053,697, 9–11–62, Cl. 117—142.
Zorn, Hermann, F. Pass, and E. Steininger, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Brüning. Process for the manufacture of primary organic phosphines. 3,068,293, 12–11–62, Cl. 260—606.5.
Zorn, Ralph A., to Grain Processing Corp. Bacitracin product and processes utilizing cobalt compounds. 3,021,217, 2–13–62, Cl. 99—2.
Zorn, Werner: *See*—
Loewe, Siegmund, and Zorn. 3,029,033.
Zorzi, Carlo, water supply device for washing W.C. bowls. 3,029,444, 4–17–62, Cl. 4—47.
Zrodowski, Joseph J., to General Electric Co. Method of honing a toothed gear member. 3,043,066, 7–10–62, Cl. 51—287.
Zrubek, William E., to United States of America, Navy. Transistor circuit for converting pulse information into bistable information. 3,018,384, 1–23–62, Cl. 307—88.5.
Zschekel, Hans, to International Standard Electric Corp. Magnetic storage system. 3,045,213, 7–17–62, Cl. 340—172.5.
Zselyonka, Laszlo: *See*—
Barabus, Janos, Zselyonka, Kiss, and Libik. 3,046,837.
Zsoka, Lorant T.: *See*—
Clauson, Walton E., and Zsoka. 3,055,785.
Zubaty, Joseph, to General Motors Corp. Fluid pump. 3,019,736, 2–6–62, Cl. 103—150.
Zubaty, Joseph G., to General Motors Corp. Constant speed drive mechanism. 3,069,857, 12–25–62, Cl. 60—53.
Zuber, Alexander A., to W. A. Sheaffer Pen Co. Cartridge carrier. 3,057,463, 10–9–62, Cl. 206—37.
Zubren, Louis L. Mouth protector. 3,016,052, 1–9–62, Cl. 128—126.
Zubrisky, William J., to Chromium Corp. of America. Chromium bearing surface. 3,063,763, 11–13–62, Cl. 308—241.
Zuck, Daniel R. Roadable airplane. 3,056,564, 10–2–62, Cl. 244—2.
Zucker, Gottlieb F. Barbering machine. 3,054,183, 9–18–62, Cl. 30—202.
Zucker, Richard S., and E. M. Katz, to Congoleum-Nairn Inc. Surface covering product. 3,035,955, 5–22–62, Cl. 154—49.
Zuckerman, Irving, and D. Berend, Jr., to Cameo Curtains Inc. Device for forming barrel-pleats in draperies. 3,037,556, 6–5–62, Cl. 160—348.
Zuckerman, Jack M., to Yankee Plastics, Inc. Adjustable garment hanger. 3,070,269, 12–25–62, Cl. 223—88.
Zuckerman, Leo: *See*—
Singher, Heron O., and Zuckerman. 3,016,337.
Zuehlke, Arthur A., and J. A. E. Hyams, to Bourns, Inc. Displacement transducer. 3,020,508, 2–6–62, Cl. 338—162.
Zuehlke, Arthur A., and G. J. Brown, to Bourns, Inc. Pressure-change transducer. 3,032,732, 5–1–62, Cl. 338—41.
Zuehlke, Arthur A., and M. E. Bourns, to Bourns, Inc. Universal pressure transducer. 3,032,733, 5–1–62, Cl. 338—41.
Zuehlke, Carl W.: *See*—
Perry, Edmond S., and Zuehlke. 3,068,204.
Zugel, Victor A.: *See*—
Heigl, Carl H., and Zugel. 3,030,624.
Heigl, Carl H., and Zugel. 3,032,336.
Zuiderweg, Frederik J.: *See*—
Voetter, Heinz, Verburg, and Zuiderweg. 3,062,517.
Zuiderweg, Frederik J., to Shell Oil Co. Rotating disc contactor. 3,062,627, 11–6–62, Cl. 23—270.5.

Zuiderweg, Frederik J., G. H. Reman, and A. Schaafsma, to Shell Oil Co. Process for separating aromatic hydrocarbons. 3,065,167, 11–20–62, Cl. 208—311.
Zuiderweg, Frederik J., and G. H. Reman, to Shell Oil Co. Process for separating aromatic hydrocarbons. 3,065,168, 11–20–62, Cl. 208—317.
Zuiderweg, Frederik J., G. H. Reman, and A. Schaafsma, to Shell Oil Co. Process for separating aromatic hydrocarbons. 3,065,169, 11–20–62, Cl. 208—321.
Zukowski, Edward: *See*—
Schneider, Alfred, and Zukowski. 3,039,887.
Zulkoski, Bruno P., to National Steel Corp. Method of quenching metal articles. 3,027,308, 3–27–62, Cl. 204—36.
Zumbroich, Walter: *See*—
Osterloh, Hans, Vossen, and Zumbroich. 3,041,077.
Zumbrunnen, Erhard, to Viso S.A. Drive sheave. 3,041,887, 7–3–62, Cl. 74—229.
Zumbusch, Peter C., to Worthington Corp. Segmented casing for multistage centrifugal fluid machines. 3,051,090, 8–28–62, Cl. 103—108.
Zumofen, Lothar, to Wabor, A.G., Firma. Manufacture of floor coverings. 3,037,898, 6–5–62, Cl. 156—94.
Zumwalt, Lloyd R., to United States of America, Atomic Energy Commission. Fuel element. 3,039,944, 6–19–62, Cl. 204—154.2.
Zunick, Michael J., and G. R. Mahn, to General Electric Co. Pin seal accelerator tubes. 3,034,009, 5–8–62, Cl. 313—85.
Zunker, Harold D., and J. Hoch, to Globe-Union Inc. Resistance trimmer knob. 3,032,734, 5–1–62, Cl. 338—163.
Zupanick, Joseph E.: *See*—
Clement, Warren F., and Zupanick. 3,023,574.
Clement, Warren F., Schaffer, and Zupanick. 3,033,042.
Zupic, Carl P., and D. E. Carey, to The Dow Chemical Co. Method of dusting flexible film tubing internally. 3,065,097, 11–20–62, Cl. 117—18.
Zuppinger, Paul, and G. Widmer, to Ciba Ltd. Unsaturated esters of aminotriazine formaldehyde condensation products. 3,027,339, 3–27–62, Cl. 260—21.
Zurawski, Edward F., to Garcy Corp. Fluorescent light fixture. 3,065,343, 11–20–62, Cl. 240—51.11.
Zurawinski, Mitchell, and C. M. Sperazz, Sr., to Bell Aerospace Corp. Automatic control apparatus. 3,061,242, 10–30–62, Cl. 244—23.
Zurbuchen, Louis E., and F. R. Werner, to The National Cash Register Co. Operation control mechanism for cash registers and accounting machines. 3,027,077, 3–27–62, Cl. 235—130.
Zürcher, Alfred: *See*—
Hänny, Jost, and Zürcher. 3,035,879.
Zurles, Peter W. Safety switch handle shaft stop means. 3,067,629, 12–11–62, Cl. 74—504.
Zurlo, John T., to T. W. and C. B. Sheridan Co. Book trimmer and the like. 3,064,512, 11–20–62, Cl. 83—174.
Zurn Industries, Inc.: *See*—
Shenk, Robert H., and Shaw. 3,045,453.
Zurowski, Rudolph L., to International Business Machines Corp. Web feeding correction device. 3,057,293, 10–9–62, Cl. 101—336.
Zuse KG: *See*—
Hanewinkel, Lorenz. 3,052,872.
Zussman, Hyman W., and R. M. Pines, to Geigy Chemical Corp. Method of chemically milling magnesium. 3,063,944, 11–13–62, Cl. 252—79.1.
Zutter, Hans: *See*—
Suter, Hans, and Zutter. 3,051,706.
Zutty, Nathan L., to Union Carbide Corp. Process for the trialkylboron catalyzed polymerization of vinyl monomers. 3,051,689, 8–28–62, Cl. 260—87.5.
Zuzelo, Edward A. Masonry saw work-conveying cart. 3,027,885, 4–3–62, Cl. 125—13.
Zuzelo, Edward A. Masonry saw. 3,027,886, 4–3–62, Cl. 125—13.
Zwald, Henry J., to Sylvania Electric Products Inc. Feeder mechanism. 3,051,354, 8–28–62, Cl. 221—166.
Zwanenberg's Fabrieken N.V.: *See*—
Luijerink, Jan H. 3,053,667.
Zwanger, Karl A. Mill for grinding of coffee and of similar aromatic matter. 3,057,565, 10–9–62, Cl. 241—244.
Zwanzig, Arthur J., to Engelhard Industries, Inc. Anode. 3,058,086, 10–9–62, Cl. 339—94.
Zwarycz, Michael, to Crompton & Knowles Packaging Corp. Feed mechanism for thin flat comestibles. 3,043,476, 7–10–62, Cl. 221—221.
Zweidler, Reinhard, to J. R. Geigy, A.G. Optical brightening of acrylonitrile fibres. 3,028,253, 4–3–62, Cl. 117—33.5.
Zweig, Samuel, to The Borden Co. Process for producing plastic articles. 3,017,670, 1–23–62, Cl. 18—59.
Zweigle, Maurice L., to The Dow Chemical Co. Method of coating heat-expansible resin particles with a solution of perfluorooctanoic acid and coated composition obtained thereby. 3,056,752, 10–2–62, Cl. 260—2.5.
Zweigle, Maurice L., and W. E. Humbert, to The Dow Chemical Co. Stranded alkenyl aromatic polymer foam for loose-fill packaging. 3,066,382, 12–4–62, Cl. 28—78.
Zwick, Kurt, to H. and F. W. Deckel. Machine tools. 3,055,272, 9–25–62, Cl. 90—11.
Zwick, Kurt, to H. and F. W. Deckel. Machine tool. 3,060,813, 10–30–62, Cl. 90—16.
Zwick, Kurt, to H. and F. W. Deckel. Work locating table for machine tools. 3,069,154, 12–18–62, Cl. 269—73.
Zwickey, Clifford J. Spring structures. 3,027,153, 3–27–62, Cl. 267—1.
Zwickey, Clifford J. Arrow heads. 3,064,977, 11–20–62, Cl. 273—106.5.
Zwicky, Alfred J.: *See*—
Von Hippel, Hans J., and Zwicky. 3,062,193.
Zwicky, Fritz, to Aerojet-General Corp. Inverted hydropulse. 3,044,252, 7–17–62, Cl. 60—35.5.
Zwicky, Fritz, to Aerojet-General Corp. Method and apparatus for jet propulsion through water. 3,044,253, 7–17–62, Cl. 60—35.5.
Zwicky, Fritz, and F. J. Ewing, to Aerojet-General Corp. Decomposition of nitro-paraffins in jet propulsion motor operation. 3,048,007, 8–7–62, Cl. 60—35.4.
Zwicky, John F., to Stone-Wallwork Ltd. Liquid treatment devices. 3,056,502, 10–2–62, Cl. 210—190.
Zwilsky, Klaus M.: *See*—
Grant, Nicholas J., and Zwilsky. 3,069,759.
Grant, Nicholas J., and Zwilsky. 3,070,439.
Grant, Nicholas J., and Zwilsky. 3,070,440.
Zwirnerei Ackermann Werk der Ackermann-Goggingen A.G.: *See*—
Hippe, Richard, and Schussler. 3,059,408.
Schussler, Gerhard. 3,059,409.
Zwislocki, Jozef J., to Syracuse University. Ear plugs. 3,047,089, 7–31–62, Cl. 181—23.
Zworykin, Vladimir K., and G. C. Sziklai, to Radio Corp. of America. Apparatus for meteorological exploration. 3,038,-154, 6–5–62, Cl. 340—366.
Zworykin, Vladimir K., and F. L. Hatke, to Radio Corp. of America. Voltage sensing apparatus. 3,052,232, 9–4–62, Cl. 128—2.1.
Zysk, Stanley A., to Kelsey-Hayes Co. Plural step pressure welding apparatus. 3,044,328, 7–17–62, Cl. 78—82.
Zysk, Stanley A., and W. J. Rozmus, to Kelsey-Hayes Co. Method of and means for making electrical contacts. 3,026,603, 3–27–62, Cl. 29—155.55.
Zysset, Karl. Food chopper. 3,029,851, 4–17–62, Cl. 146—160.
Zysset, Karl. Food slicer. 3,054,432, 9–18–62, Cl. 146—103.

1962
LIST OF DESIGN PATENTEES

AMP Inc.: *See*—
Hays, Kenneth S. 193,511.
Aalco Mfg. Co.: *See*—
Pohrer, Richard M. 193,097.
Abbott, Horace P., to Lever Brothers Co. Bottle cap. 194,076, 11–13–62, Cl. D58—26.
Abend, Chester J.: *See*—
Hanson, Thomas E., and Abend. 194,080.
Abend, Chester J., and K. E. Kober, to Smith-Corona Marchant Inc. Calculating machine. 193,816, 10–9–62, Cl. D64—11.
Acker, Eric O. Expanded metal stamping machine. 193,212, 7–10–62, Cl. D54—14.
Ackerson, Alfred. Pickle tongs or the like. 192,256, 2–20–62, Cl. D44—4.
Acoustics Development Corp.: *See*—
Schaffer, Martin B. 193,386.
Acton, Daniel D.: *See*—
Foss, George J., and Acton. 192,757.
Foss, George J., and Acton. 192,945.
Foss, George J., and Acton. 193,363.
Foss, George J., and Acton. 193,742.
Adams, Andrew N., Jr.: *See*—
Adams, Thomas T., and A. N. Adams, Jr. 194,000.
Adams, Jack. Covering for a skate shoe. 193,652, 9–25–62, Cl. D7—7.
Adams Rite Mfg. Co.: *See*—
Rechberg, Sig R. 194,064.
Adams, Rudolph A.: *See*—
Haloski, Frank, and Adams. 192,005.
Adams, Thomas T., and A. N. Adams, Jr. Flower pot. 194,000, 11–6–62, Cl. D35—3.
Addressograph-Multigraph Corp.: *See*—
Maul, John A., and Van Acker. 193,743.
Advertising Metal Display Co.: *See*—
Parnolo, Anthony N. 192,996.
Aeolian American Corp.: *See*—
Pollack, William G. 192,128.
Aero-Motive Mfg. Co.: *See*—
Becker, Roger T. and W. K., and Pierce. 192,935.
Aeroplastics Corp.: *See*—
Del Mar, Roger A., and Monroy. 193,350.
Del Mar, Roger A., and Wolf. 193,099.
Aeroquip Corp.: *See*—
Stringham, Elmer C. 194,015.
Agrillo, Paul. Whirligig. 193,012. 6–12–62. Cl. D34—15.
Agrillo, Paul. Whirligig. 193,566, 9–11–62, Cl. D34—15.
Aguzzi, Mario, to Poirette Corsets, Inc. Girdle. 193,298, 7–31–62, Cl. D20—2.
Ahrens, Claude W. Playground ferris wheel. 193,195, 7–10–62. Cl. D34—5.
Aigner, Ettiene. Handbag closure clasp. 193,882, 10–16–62, Cl. D87—2.
Airguide Instrument Co.: *See*—
Lowe, Donald B. 192,480.
Airo Shield, Inc.: *See*—
Knowles, John W. 192,684.
Air-Shields, Inc.: *See*—
Stoner, George H. 193,460.
Ajax Hardware Mfg. Corp.: *See*—
Caminker, Bernard, and Leichter. 193,385.
Caminker, Bernard, and Leichter. 193,545.
Akers, Charles E. Combined bottle and eye cup. 192,052, 1–9–62, Cl. D58—6.
Aktiebolaget Electrolux: *See*—
Descarries, Raymond. 192,346.
Albin Hagstrom, Aktiebolaget: *See*—
Berglund, Olof H. 194,066.
Aldon Industries Corp.: *See*—
Rinaldi, Joseph J. 192,560.
Aldred, John L., Jr., to Ford Motor Co. Oil reservoir for tractors or the like. 192,837, 5–15–62, Cl. D77—1.
Aldrich, Robert B., and J. A. Russo, to General Electric Co. Display box for a clock or the like. 194,167, 11–27–62, Cl. D58—12.6.
Aleks, Vytant, to The Brearley Co. Bathroom scale. 193,024, 6–12–62, Cl. D52—10.
Aleks, Vytant P., to National Lock Co. Furniture pull or the like. 192,110, 1–23–62, Cl. D10—8.
Aleks, Vytant P., to National Lock Co. Pull or the like. 193,176, 7–10–62, Cl. D10—8.
Aleks, Vytant P., to National Lock Co. Pull or the like. 193,177, 7–10–62, Cl. D10—8.
Alexander, Claude L., to American Can Co. Dispensing container for liquids or the like. 193,955, 10–30–62, Cl. D58—17.
Alger, Andrew L.: *See*—
Anderson, Douglas W., and Alger. 193,427.
Alladin Plastics, Inc.: *See*—
Avedon, Sam, and Lalandre. 192,029.
Allen, Charles W., Jr., to The Celotex Corp. Ceiling tile. 192,077, 1–16–62, Cl. D18—2.
Allen, Charles W., Jr., to The Celotex Corp. Ceiling tile. 193,552, 9–11–62, Cl. D18—2.
Allen Electronics, Inc.: *See*—
Pierce, Joseph E., and Christine. 194,123.
Allen, William W., Jr. Mobile air blowing unit for maintaining brush fires and the like. 192,622, 4–17–62, Cl. D62—2.
Allanceware, Inc.: *See*—
Corp, Paul M. 192,494.
All-Steel Equipment Inc.: *See*—
Anderson, Pehr J. 192,113.
Anderson, Pehr J. 192,143.
Anderson, Pehr J. 192,348.
Anderson, Pehr J. 192,635.
All-Tech Industries, Inc.: *See*—
Braun, David H. 193,434.
Braun, David H. 193,898.
Alside Homes Corp.: *See*—
Tessin, Emil A., II. 193,547.
Alston, Leroy. Golf club carrier. 193,011, 6–12–62, Cl. D34—5.
Altmeyer, Edward G., and D. C. Andreasson. Foot exerciser. 194,255, 12–18–62, Cl. D83—1.
Alvaney, Allan J., to Sears, Roebuck and Co. Toy tractor type airplane carrier. 192,088, 1–16–62, Cl. D34—15.
Alvaney, Allan J., to Sears, Roebuck and Co. Toy mobile rocket launcher. 192,089, 1–16–62, Cl. D34—15.
Alvaney, Allan J., to Sears, Roebuck and Co. Toy car wrecker. 192,171, 2–6–62, Cl. D34—15.
Alvaney, Allan J., to Sears, Roebuck and Co. Toy airplane. 193,013, 6–12–62, Cl. D34—15.
Alvaney, Allan J., to Sears, Roebuck and Co. Toy car trailer. 193,150, 7–3–62, Cl. D34—15.
Alvin, William R. Needle grip thimble. 193,650, 9–25–62, Cl. D3—9.
Amberg, John A., to The Columbia Mfg. Co., Inc. Luggage carrier for a bicycle. 193,377, 8–7–62, Cl. D90—3.
Amdal, Dagfinn O., to National Lock Co. Combined lift handle and latch for locker doors. 192,161, 2–6–62, Cl. D10—8.
Amdur, Charles J., and E. J. Weinstein, to Decor Knok Cover Co. Flexible door knob cover. 192,150, 1–30–62, Cl. D50—3.
American Bosch Arma Corp.: *See*—
Hogeman, Hans. 193,226.
Hogeman, Hans. 193,285.
Hogeman, Hans. 193,292.
American Can Co.: *See*—
Alexander, Claude L. 193,955.
Behrens, Herbert C. 192,967.
Behrens, Herbert C. 193,522.
Han, Samuel D. 192,191.
Kuchenbecker, Morris W. 193,954.
American Desk Mfg. Co.: *See*—
Williams, Herbert E. 192,243.
Williams, Herbert E. 192,244.
Williams, Herbert E. 192,245.
Williams, Herbert E. 193,846.
American Machine & Foundry Co.: *See*—
Bessett, Clifford H. 194,269.
Philipps, Virgil J. 193,831.
American Optical Co.: *See*—
Armbruster, John T. 192,020.
Armbruster, John T. 192,321.
Armbruster, John T. 192,615.
Armbruster, John T. 193,664.
Armbruster, John T. 193,896.
Armbruster, John T., and Sosack. 193,296.
American Radiator & Standard Sanitary Corp.: *See*—
Tiller, James A. 194,258.
Zeigler, John M. 193,604.
American Sealing Co.: *See*—
Sundberg, Carl W., and Ferar. 193,340.
American Seating Co.: *See*—
Black, Warren R. 193,194.
Black, Warren R., and Hendrikson. 193,615.
Sundberg, Carl W., and Fefar. 192,468.
Sundberg, Carl W., and Ferar. 192,809.
Sundberg, Carl W., and Ferar. 192,910.
American Telephone and Telegraph Co.: *See*—
Turner, Henry G. 192,163.

American Type Founders Co., Inc.: *See*—
Craw, Freeman G. 194,170.
American Viscose Corp.: *See*—
Derrickson, Michael O. 192,482.
Johnson, Charles R., Jr. 192,793.
Johnson, Charles R., Jr. 193,306.
Amerock Corp.: *See*—
Clayton, La Verne E. 192,240.
Clayton, La Verne E. 193,546.
Amoroso, Felix V. Combined pocket knife and bottle opener. 192,081, 1–16–62, Cl. D22—3.
Ampex Corp.: *See*—
Southcott, Marvin A. 192,361.
Anchor Hocking Glass Corp.: *See*—
Foss, George J., and Acton. 192,757.
Foss, George J., and Acton. 192,945.
Foss, George J., and Acton. 193,363.
Foss, George J., and Acton. 193,742.
Anderson, Bruce W. Reflective hand signal for pedestrians. 193,818, 10–9–62, Cl. D72—1.
Anderson, Clayton & Co.: *See*—
Palazzo, Robert J. 192,452.
Anderson Die & Mfg. Co.: *See*—
Anderson, George C. 192,385.
Anderson, Douglas W., to Burgess Vibrocrafters, Inc. Fog generator for insecticides or the like. 192,470, 3–27–62, Cl. D31—3.
Anderson, Douglas W., to Burgess Vibrocrafters, Inc. Engraving tool or the like. 192,614, 4–17–62, Cl. D54—14.
Anderson, Douglas W., to The Siegler Corp. Heater. 193,646, 9–18–62, Cl. D81—10.
Anderson, Douglas W., and A. L. Alger, to Burgess Vibrocrafters, Inc. Electric can opener or the like. 193,427, 8–21–62, Cl. D22—2.
Anderson, Douglas W., W. M. Goldsmith, H. L. Hester, and J. J. Ortega, to Simoniz Co. Bottle. 194,071, 11–13–62, Cl. D58—6.
Anderson, George C., to Anderson Die & Mfg. Co. Slip guide for binding straps. 192,385, 3–13–62, Cl. D54—11.
Anderson, James W., to Calwis Co. Cabinet for windshield servicing materials. 192,697, 5–1–62, Cl. D52—2.
Anderson, Jeff. Portable bar cabinet. 192,568, 4–10–62, Cl. D33—19.
Anderson, John J., to S. C. Johnson & Sons. Bottle. 193,636, 9–18–62, Cl. D58—6.
Anderson, Lloyd E., Sr. Belt rack or similar article. 193,937, 10–30–62, Cl. D33—8.
Anderson, Orrin M.: *See*—
Ferrari, William A., Anderson, and Smith. 193,973.
Anderson, Pehr J., to All-Steel Equipment Inc. Molding for a desk or similar article. 192,113, 1–23–62, Cl. D13—6.
Anderson, Pehr J., to All-Steel Equipment Inc. Chair base or similar article. 192,143, 1–30–62, Cl. D15—1.
Anderson, Pehr J., to All-Steel Equipment Inc. Drawer handle or similar article. 192,348, 3–13–62, Cl. D10—8.
Anderson, Pehr J., to All-Steel Equipment Inc. Posture chair or similar article. 192,635, 4–24–62, Cl. D15—1.
Anderson, Robert R., R. C. Herda, S. Hiller, Jr., E. H. Jacobsen, J. B. Nichols, and S. S. Sherby, to Hiller Aircraft Corp. Helicopter or similar aircraft. 192,666, 4–24–62, Cl. D71—1.
Anderson, W. E., Inc.: *See*—
Charles, Ellis E. 192,699.
Andersson-Sason, Carl E. S., to Electrolux, Aktiebolaget. Outboard motor. 192,770, 5–8–62, Cl. D71—1.
Andre Citroen, Societe Anonyme: *See*—
Brueder, Antoine. 193,423.
André Fantasies, Inc.: *See*—
Gettinger, Lillian. 192,463.
Andreasson, Donald C.: *See*—
Altmeyer, Edward G., and Andreasson. 194,255.
Andrews, Roy, to Borg-Warner Corp. Faucet. 193,885, 10–16–62, Cl. D91—3.
Anfinsen Plastic Moulding, Inc.: *See*—
Wickman, Charles E. 193,121.
Antoine, Vernon F., to Coastal Dynamics Corp. Wax injection machine for casting processes or the like. 194,194, 12–4–62, Cl. D55—1.
Antonio, Floyd L.: *See*—
Antonio, James F. and F. L. 192,851.
Antonio, James F. and F. L. 194,097.
Antonio, James F and F. L. Mobile telephone table. 192,851, 5–22–62, Cl. D14—3.
Antonio, James F. and F. L. Telephone enclosure. 194,097, 11–20–62, Cl. D13—1.
Appel, Mel: *See*—
Schnur, Martin, and Appel. 194,116.
Schnur, Martin, and Appel. 194,156.
Applied Power Industries, Inc.: *See*—
Butorac, John R. 192,522.
Holt, Clare E. 192,092.
Aqua Meter Instrument Corp.: *See*—
Bosland, James M. 193,871.
Arens Controls, Inc.: *See*—
Rech, Raymond G. 193,626.
Rech, Raymond G. 193,627.
Rech, Raymond G. 193,628.
Argiro, Nicholas T. Accordion. 192,578, 4–10–62, Cl. D56—1.
Arkla Industries Inc.: *See*—
Gilmore, Edward R. 192,534.
Armbruster, John T., to American Optical Co. Combination lens indexer and marker. 192,020, 1–2–62, Cl. D57—1.
Armbruster, John T., to American Optical Co. Head rest for a dental chair or similar article. 192,321, 3–6–62, Cl. D15—3.
Armbruster, John T., to American Optical Co. Lens meter. 192,615, 4–17–62, Cl. D57—1.
Armbruster, John T., to American Optical Co. Combined instrument holder and battery charger. 193,664, 9–25–62, Cl. D26—15.
Armbruster, John T., to American Optical Co. Housing for a transformer or similar article. 193,896, 10–23–62, Cl. D26—15.
Armbruster, John T., and I. A. Bosack, to American Optical Co. Dental chair or similar article. 193,296, 7–31–62, Cl. D15—3.
Arnold, Frank A. Trimmer for wall paper or the like. 192,220, 2–13–62, Cl. D22—3.
Armstrong Cork Co.: *See*—
Davis, John E. 192,676.
Armstrong Patents Co. Ltd.: *See*—
Rollitt, John. 192,062.
Wordsworth, Jack. 192,352.
Armstrong, William H., to Borg-Warner Corp. Faucet. 193,757, 10–2–62, Cl. D91—3.
Armstrong, William H., to Borg-Warner Corp. Bathtub. 194,178, 12–4–62, Cl. D4—4.
Armstrong, William H., and J. G. Balmer, Jr. Document reproducing apparatus. 193,450, 8–21–62, Cl. D61—1.
Arneberg, Don J., to Square D Co. Pilot light for an explosion proof enclosure or similar article. 194,036, 11–13–62, Cl. D26—8.
Arnett, George A., and L. T. Smith, to Rains Mfg. Co., Inc. Rivet heading tool for chain saws. 192,445, 3–20–62, Cl. D54—10.
Arnold, Dagmar L., to International Business Machines Corp. Disk-type data storage device. 193,993, 11–6–62, Cl. D26—5.
Aro Corp., The: *See*—
De Groff, Morton S. 193,102.
Arrowhead Engineering Corp.: *See*—
Sabo, Frank J. 193,046.
Arrowhead Products, Inc.: *See*—
De Pew, Thomas N., and Bell. 193,625.
Arvin Industries, Inc.: *See*—
Sohn, John P., Brighton, and Zenor. 192,775.
Ashley, Walter M., Jr., E. Shekut, and W. D. Syrett, to International Harvester Co. Tractor. 193,503, 9–4–62, Cl. D14—3.
Asnes, Marvin A., and G. Goda, to Clay-Adams, Inc. Centrifuge. 193,981, 11–6–62, Cl. D16—2.
Associated Mills, Inc.: *See*—
Grube, Clifford E. 192,575.
Astor, Edward E., to International Latex Corp. Brassiere. 193,777, 10–9–62, Cl. D20—4.
Astro-Nut, Inc.: *See*—
Stevens, Jerome W. and F. J. 192,746.
Atalla, Anwar A., to The Torrington Mfg. Co. Rotary fan. 192,564, 4–10–62, Cl. D26—7.
Atkin, Leonard, to Stone Mfg. Co. Wall lamp. 193,275, 7–24–62, Cl. D48—4.
Atlas Tool & Mfg. Co.: *See*—
Roth, Frank B. 193,538.
Attwood Corp.: *See*—
De Sakhnoffsky, Alexis. 192,182–6.
Audio Dynamics Corp.: *See*—
Pritchard, Peter H. 194,264.
Augenstein, Karl C., to Speidel Corp. Expansible link chain for a bracelet or similar article. 193,203, 7–10–62, Cl. D45—4.
Augenstein, Karl C., to Speidel Corp. End link for a bracelet or similar article. 193,900, 10–23–62, Cl. D45—4.
Augenstein, Karl C., to Speidel Corp. End link for a bracelet or similar article. 193,901, 10–23–62, Cl. D45—4.
Augenstein, Karl C., to Speidel Corp. End link for a bracelet or similar article. 193,902, 10–23–62, Cl. D45—4.
Augenstein, Karl C., to Speidel Corp. Watch bracelet component or similar article. 193,903, 10–23–62, Cl. D45—4.
Aul, Robert J., to Multi-Fill Machine Co. Machine for filling and closing individual packages. 192,752, 5–8–62, Cl. D35—3.
Austenson, Herman M. Tree stand. 193,864, 10–16–62, Cl. D35—3.
Austin, Edward E., and R. M. Kemplin, to F. L. Moseley Co. X-Y graphical recorder. 193,731, 10–2–62, Cl. D52—6.
Autimex S.A.: *See*—
Deriaz, Andre A. 192,753.
Automatic Canteen Co. of America: *See*—
Mell, Jack R. 192,483.
Mell, Jack R. 192,484.
Automatic Concessions Corp.: *See*—
Grant, Howard E. 192,328.
Grant, Howard E. 192,443.
Avedon, Sam, and A. Lalandre, to Alladin Plastics, Inc. Molded seat. 192,029, 1–9–62, Cl. D15—1.
Avery Industries, Inc.: *See*—
Morse, Hugh B. 193,112.
Avrack, Emil. Statuette base. 193,786, 10–9–62, Cl. D29—23.
Ayer, Ermon F., to General Hardware Mfg. Co., Inc. Tubing cutter. 192,447, 3–20–62, Cl. D54—13.

Aymar, Robert H., and E. R. Weiner, to We-Mar, Inc. Treadle control unit for dental apparatus. 192,357, 3–13–62, Cl. D24—1.

Aymar, Robert H., and E. R. Weiner, to We-Mar, Inc. Treadle control for dental apparatus. 192,917, 5–29–62, Cl. D24—1.

Ayres, Samuel, Jr., to The Carter's Ink Co. Ink marking instrument. 192,310, 2–27–62, Cl. D74—17.

Ayres, Samuel, Jr., to The Carter's Ink Co. Ink marker. 193,918, 10–23–62, Cl. D74—1.

Ayres, Samuel, Jr., to The Gamewell Co. Fire alarm box. 193,959, 10–30–62, Cl. D72—1.

Baab, Albert, to Jos. Schneider & Co., Opitsche Werke. Optical objective. 194,129, 11–20–62, Cl. D57—1.

Bach, Carl G., Jr., and W. L. Shelton, to General Electric Co. Clothes washer or similar article. 193,067, 6–19–62, Cl. D49—1.

Baer, Henry B., to Imperial Knife Co., Inc. Knife or similar article. 192,961, 6–5–62, Cl. D22—3.

Bagshaw, Robert B., to Wald Industries, Inc. Instrument housing. 193,931, 10–30–62, Cl. D26—1.

Bagshaw, Robert B., to Wald Industries, Inc. Self-propelled highway marker. 194,262, 12–25–62, Cl. D14—3.

Bailey, Jesse, Automobile. 192,497, 4–3–62, Cl. D14—3.

Baker, Clifford G., and C. E. Guldberg, to Plas-Tainer Inc. Jug. 193,361, 8–7–62, Cl. D58—5.

Baker, Harold, to Baker Steel and Engineering Corp. Drive-in canopy. 193,471, 8–28–62, Cl. D13—1.

Baker, Harold, to Baker Steel and Engineering Corp. Canopy. 194,026, 11–13–62, Cl. D13—1.

Baker, Robert: *See*—
Copeland, Arnold J., Baker, and Kimura. 194,290.

Baker Steel and Engineering Corp.: *See*—
Baker, Harold. 193,471.
Baker, Harold. 194,026.

Balcom Industries, Inc.: *See*—
Garrison, Eugene D. 193,739.

Baldwin, Nelson L., and O. N. Driggs. Combination golf ball gauge, club head scraper and spike tightener. 193,679, 9–25–62, Cl. D52—1.

Bales, David W., and J. J. Giuliano. Coaster pan. 193,014, 6–12–62, Cl. D34—15.

Ballantyne Instruments and Electronics, Inc.: *See*—
Nelson, Edward J. 192,132.

Balmer, James G., Jr.: *See*—
Armstrong, William H., and Balmer. 193,450.

Baratelli, Charles, to G. W. Holloway. Pair of spectacles for eye make-up. 193,252, 7–17–62, Cl. D57—1.

Baratelli, Charles, to G. W. Holloway. Pair of spectacles for eye makeup. 194,284, 12–25–62, Cl. D57—1.

Barberis, Giovanni, to Riv Officine di Villar Perosa S.p.A. Cash register. 192,938, 5–29–62, Cl. D52—4.

Barcalo Mfg. Co.: *See*—
Shore, Edward H. 192,449.

Bargen, Mathilda: *See*—
Bargen, William J., and M. K. 194,213.

Bargen, Mathilda K.: *See*—
Bargen, William J. and M. K. 192,320.
Bargen, William J. and M. K. 192,327.

Bargen, William J., deceased (M. Bargen, administratrix), and M .K. Bargen. Book holding rack for a classroom chair or similar article. 194,213, 12–11–62, Cl. D33—11.

Bargen, William J. and M. K. Chair. 192,320, 3–6–62, Cl. D15—1.

Bargen, William J. and M. K. Tablet-arm chair. 192,327, 3–6–62, Cl. D33—11.

Barker, Charles T., and T. O. Gray. Dental chair seat or similar article. 192,558, 4–10–62, Cl. D15—3.

Barmen Lace Corp., The: *See*—
Petsche, Inge. 192,203.
Petsche, Inge. 192,408.
Petsche, Inge. 192,954.

Barnard, John P. Adjustable hard top boat canopy. 192,-540, 4–3–62, Cl. D71—1.

Barner, Terry L., to Monroe Calculating Machine Co. Calculating machine. 192,457, 3–20–62, Cl. D64—11.

Barnes, John S., to Carter Craft, Inc. Student desk. 193,-559, 9–11–62, Cl. D33—11.

Barnett, Edward H.: *See*—
Lipschutz, Sidney, and Barnett. 194,168.

Barnett, Louis W.: *See*—
Waller, Robert J. 194,138.

Barrett, Robert V. Pitcher. 192,875, 5–22–62, Cl. D44—21.

Barrett, Rowland M. Golf club head. 192,966, 6–5–62, Cl. D34—5.

Barron, William S., to Gladwin Plastics, Inc. Sign for a telephone booth or the like. 192,156, 2–6–62, Cl. D1—12.

Bartlett, Angelo E., and E. J. Fletcher, to The Patent and Licensing Corp. Plastic floor tile. 194,104, 11–20–62, Cl. D18—2.

Barton Industries, Inc.: *See*—
Barton, William J. 192,498.

Barton, William J. to Barton Industries, Inc. Camping trailer. 192,498. 4–3–62, Cl. D14—3.

Bateman, Coates F., P. A. Mankin, E. L. Copony, R. A. Smith, and G. W. Monigle, to Symington Wayne Corp. Gasoline dispenser. 192,817, 5–15–62, Cl. D52—2.

Bateman, Coates F., P. A. Mankin, E. L. Copony, R. A. Smith, and G. W. Monigle, to Symington Wayne Corp. Gasoline dispenser. 192,818, 5–15–62, Cl. D52—2.

Bateman, Coates F., P. A. Mankin, E. L. Copony, R. A. Smith, and G. W. Monigle, to Symington Wayne Corp. Gasoline dispenser. 192,819, 5–15–62, Cl. D52—2.

Batie, Glenn L., E. C. Fuerst, Sr., and V. U. Speed. Fisherman's chair. 193,336, 8–7–62, Cl. D15—1.

Batson-Cook Co.: *See*—
Hamrick, Jack. 193,109.

Bauer, Arlene, Monstrance. 193,855, 10–16–62, Cl. D29—23.

Bauer, Russell E., to Cadillac Gage Co. Armored patrol car. 193,771, 10–9–62, Cl. D14—3.

Baughman, Karl T., to Sears, Roebuck and Co. Portable adding machine. 193,815, 10–9–62, Cl. D64—11.

Baumgartner Freres S.A.: *See*—
Ducommun, Georges. 193,521.

Bausch & Lomb Inc.: *See*—
Hoogesteger, Paul A., and Patla. 193,781.
Hoogesteger, Paul A., and Pitchford. 194,004.

Bautsch, George L. Combined flash light, whistle, compass, and key chain holder. 192,098, 1–16–62, Cl. D48—24.

Bayer, Anna Y. Girdle. 192,915, 5–29–62. Cl. D20—2.

Bayerische Motoren Werke Aktiengesellschaft: *See*—
Hofmeister, Wilhelm. 194,179.

Beacon Enterprises, Inc.: *See*—
Weiss, Eugene. 193,435.

Beals, Bradley A. Computer console. 192,920, 5–29–62, Cl. D26—5.

Beck, Harold C., and F. C. Kensley, to Manton-Gaulin Mfg. Co., Inc. Homogenizer. 193,300, 7–31–62, Cl. D23—1.

Becker, Frederick W., to Westinghouse Electric Corp. Electric iron. 193,278, 7–24–62, Cl. D49—6.

Becker, John E.: *See*—
Kenney, James T., and O'Loughlin. 193,148.
Kenney, James T., and O'Loughlin. 193,349.

Becker, Roger T. and W. K., and G. R. Pierce, to Aero-Motive Mfg. Co. Inspection light. 192,935, 5–29–62, Cl. D48—20.

Becker, William K.: *See*—
Becker, Roger T. and W. K., and Pierce. 192,935.

Beckman Instruments, Inc.: *See*—
Fuller, Frank I. 193,341.

Bedient, Lorena G., and J. E. Mewes, ⅓ to R. W. Dobson. Vest. 192,204, 2–13–62, Cl. D3—4.

Bedient, Lorena G., and J. E. Mewes, ⅓ to R. W. Dobson. Sport trousers. 193,419, 8–21–62, Cl. D3—17.

Behnk, Donald J., to Miller Printing Machinery Co. Printing press or similar article. 192,193, 2–6–62, Cl. D64—11.

Behnk, Donald J., to Miller Printing Machinery Co. Printing press or similar article. 192,394, 3–13–62, Cl. D64—11.

Behnk, Donald J., to Miller Printing Machinery Co. Printing press or similar article. 192,395, 3–13–62, Cl. D64—11.

Behnke, Rüdiger. Combined display and merchandising rack for lipsticks or the like. 192,236, 2–13–62, Cl. D80—11.

Behrens, Herbert C., to American Can Co. Drinking cup. 192,967, 6–5–62, Cl. D44—9.

Behrens, Herbert C., to American Can Co. Drinking cup with handle. 193,522, 9–4–62, Cl. D44—9.

Beinert, John D., to International Patent Research Corp. Lawn sprinkler. 193,080, 6–19–62, Cl. D91—1.

Beinert, John D., to Boyertown Burial Casket Co. Burial casket. 193,184, 7–10–62, Cl. D19—1.

Beinert, John D., to Boyertown Burial Casket Co. Burial casket. 193,479, 8–28–62, Cl. D19—1.

Beinert, John D., to International Patent Research Corp. Mobile lawn sprinkler. 193,884, 10–16–62, Cl. D91—1.

Belkin, Edward J. and E. L. Wall-mountable rack for personal accessory items. 193,763, 10–9–62, Cl. D4—3.

Belkin, Esta L.: *See*—
Belkin, Edward J. and E. L. 193,763.

Bell Aerospace Corp.: *See*—
Mertens, John R. 193,370.

Bell Aircraft Corp.: *See*—
Knauer, Edward P., Stevens, and Zurawinski. 192,458.

Bell, Ferris A.: *See*—
De Pew, Thomas N., and Bell. 193,625.

Bell & Howell Co.: *See*—
Obergfell, Allen R. 192,238.

Bell Telephone Laboratories, Inc.: *See*—
Dreyfuss, Henry, Hose, and Illium. 192,117.
Dreyfuss, Henry, Hose, and Illium. 192,118.
Hagelbarger, David W. 193,662.
Hagelbarger, David W. 193,663.
Hose, Robert H. 193,269.
Hose, Robert H. 193,270.
Hose, Robert H., and Lince. 193,481.
Whidden, William E. 193,393.
Wight, Forrest P. 193,513.

Bellar, Menno. Pencil holder. 193,456, 8–21–62, Cl. D74—1.

Belokin, Paul, Jr. Carrying case for a bowling ball or similar article. 193,127, 6–26–62, Cl. D87—5.

Belokin, Paul, Jr. Carrying case for a bowling ball or similar article. 193,128, 6–26–62, Cl. D87—5.

Belski, John E., and D. J. T. Hamm, to United Shoe Machinery Corp. Casing for an article handling machine. 192,881, 5–22–62, Cl. D55—1.

Beltone Hearing Aid Co.: *See*—
Yamasaki, Kim. 192,860.

Beltram, Joachim R., to International Edge Tool Co. Bone dust scraper. 192,628, 4–24–62, Cl. D11—1.

Beltz, Charles R. Transportable refrigeration unit. 193,413, 8–14–62, Cl. D67—2.

Ben Ezra, Leon. Educational device for teaching spelling. 192,466, 3–27–62, Cl. D25—1.

Bendell, David. Convertible twin sofa bed. 193,833, 10–16–62, Cl. D3—4.

Bender, Fred M., to Sun Electric Corp. Instrument casing for ammeters or similar articles. 193,409, 8–14–62, Cl. D52—6.

Benfer, David V. Tool for wrapping slit tubing. 194,127, 11–20–62, Cl. D54—13.

Benfield, John D. Combined vise and sawing guide for tubing or the like. 193,908, 10–23–62, Cl. D54—13.

Bengtson, Barbara S.: *See*—
Bengtson, Leroy H, and B. S 193,145.

Bengtson, Leroy H., Jr. and B. S. Game board. 193,145, 7–3–62, Cl. D34—5.

Bengtson, Mildred S. Portable clothes dryer. 193,677, 9–25–62, Cl. D49—1.

Benjamin, E. Burton, to H. & A. Selmer, Inc. Instrument case. 192,551, 4–3–62, Cl. D87—5.

Benjamin, E. Burton, to H. & A. Selmer, Inc. Instrument case or similar article. 192,591, 4–10–62, Cl. D87—5.

Benkoe, Earl, to Transogram Co., Inc. Toy repeater gun. 192,474, 3–27–62, Cl. D34—15.

Benner, Richard H. Outdoor drive by food market sales building. 193,092, 6–26–62, Cl. D13—1.

Benner, Winfield H.: *See*—
Garnick, Philip, Benner, and Wynne. 192,358.

Benson, Fritz C., to The H. B. Ives Co. Flush drawer pull. 192,958, 6–5–62, Cl. D10—8.

Bently, George K., and W. D. Crowl, to McCray Refrigerator Co., Inc. Refrigerated display case. 194,135, 11–20–62, Cl. D34—1.

Bergamini, Jerome A. Water toy. 192,149, 1–30–62, Cl. D34—15.

Bergen, Seymour. Housing for an aquarium heater. 192,401, 3–13–62, Cl. D81—2.

Bergeron, Victor J. Baking dish or similar article. 193,200, 7–10–62, Cl. D44—15.

Bergeron, Victor J. Baking dish or similar article. 193,201, 7–10–62, Cl. D44—15.

Bergeron, Victor J. Dish or similar article. 193,309, 7–31–62, Cl. D44—15.

Berghoff, Jerome. Straw dispenser. 192,610, 4–17–62, Cl. D52—2.

Berglund, Olof H., to Albin Hagstrom, Aktiebolaget. Concertina grill. 194,066, 11–13–62, Cl. D56—1.

Berkeley, Edmund C.: *See*—
Ruchlis, Hyman, and Berkeley. 192,221.

Berko Electric Mfg. Corp.: *See*—
Knoll, David, Greenhaus, and Jaffe. 193,320.

Berl, Herbert, to United States of America, Army. Caution sign or similar article. 192,342, 3–13–62, Cl. D1—12.

Bernhart, Herbert S., to Minneapolis-Honeywell Regulator Co. Slide projector. 193,315, 7–31–62, Cl. D61—1.

Berns, Bernard A., to Dad's Root Beer Co. Bottle. 193,533, 9–4–62, Cl. D58—8.

Bernstein, Leo H. Display rack. 193,124, 6–26–62, Cl. D80—9.

Bernstein, Leon B.: *See*—
Metzler, Charles L., Wark, and Bernstein. 194,288.

Berry, James H., to Heird Lumber Co., Inc. Firewood package. 192,863, 5–22–62, Cl. D32—1.

Besser Co.: *See*—
Mason, Clement E. 192,288.

Bessett, Clifford H., to American Machine & Foundry Co. Tricycle. 194,269, 12–25–62, Cl. D34—15.

Best, Melvin H.: *See*—
Inatomi, Charles T., Best, and Samhammer. 193,712.
Rosen, Norman J., Best, and Samhammer. 194,150.

Best, Melvin H., and C. A. Samhammer, to The National Cash Register Co. Printer for a data processing system. 193,038 6–12–62, Cl. D64—11.

Best, Melvin H., and C. A. Samhammer, to Williams-Bermuda Corp. Ventilator. 193,412, 8–14–62, Cl. D62—3.

Betnar, Phyllis G. Waste receptacle. 193,072, 6–19–62, Cl. D58—17.

Bevilacqua, Ernest M.: *See*—
Noyes, Eliot, and Bevilacqua. 192,803.
Noyes, Eliot, Bevilacqua, and Kostanecki. 194,152.
Noyes, Eliot F., and Bevilacqua. 192,167.

Bevilacqua, Ernest M., A. T. Kostanecki, and E. Noyes, to General Electric Co. Access cover for an electric circuit breaker housing. 193,005, 6–12–62, Cl. D26—13.

Bewley, Olga O. Bird house. 193,189, 7–10–62, Cl. D31—2.

Biebel, Donald R., to Datanamics, Inc. Casing for a data recording machine. 192,056, 1–9–62, Cl. D64—11.

Bieger, Walter L., to The Parker Pen Co. Desk base for a writing instrument. 192,716, 5–1–62, Cl. D74—1.

Bieger, Walter L., to Arthur Salm, Inc. Scale for letters or the like. 193,682, 9–25–62, Cl. D52—10.

Bierley, Richard E., to The Red Barn System, Inc. Drive-in restaurant building. 192,414, 3–20–62, Cl. D13—1.

Bieuranee, Richard D. Hair roller basket and utility tray for hair stylists. 192,492, 3–27–62, Cl. D86—10.

Bihlmire, Otto L. Boat propeller. 192,663, 4–24–62, Cl. D71—1.

Bikales, Victor W.: *See*—
Petyak, John J. 192,947.

Bille, Steven T., and K. Heinz, to The Curtis Publishing Co. Clock. 193,307, 7–31–62, Cl. D42—7.

Billi, Nadina. Egg boiler utensil. 192,693, 5–1–62, Cl. D44—1.

Bilman, Jozef, to General Concrete Products Co., Inc. Screen wall building block. 192,219, 2–13–62, Cl. D18—2.

Bingman, Richard T.: *See*—
Young, Ralph C., and Bingman. 194,182.

Binns, Thomas W., to Quaker Lace Co. Tablecloth. 194,017, 11–6–62, Cl. D92—26.

Binns, Thomas W., to Quaker Lace Co. Tablecloth. 194,018, 11–6–62, Cl. D92—26.

Biron, Joseph P. Tire. 192,283, 2–20–62, Cl. D90—20.

Bishop, Frank C. Livestock feeder. 192,850, 5–22–62, Cl. D12—2.

Bishop, George K., to Chrysler Corp. Automobile wheel cover. 192,730, 5–8–62, D14—30.

Bishop, William, to Memo Minder Corp. Memo holder. 194,008, 11–6–62, Cl. D74—1.

Bissell Inc.: *See*—
Yonkers, Robert A. 193,956.

Bixler, Loring C., R. K. Hayes, and L. H. Sedaris, to International Business Machines Corp. Manual data entry slides assembly console. 193,660, 9–25–62, Cl. D26—5.

Black and Decker Mfg. Co., The: *See*—
Butler, Thomas C., and Kohler.
Johnson, Marshall B. 192,134.
Johnson, Marshall B. 192,427.
Johnson, Marshall H. 193,691.

Black, James G., Jr. Electrical capacitor or the like. 192,467, 3–27–62, Cl. D26—1.

Black, Kenneth, Warren R., to American Seating Co. Cabinet. 193,194, 7–10–62, Cl. D33—19.

Black, Warren R., and B. W. Hendrikson, to American Seating Co. Bench. 193,615, 9–18–62, Cl. D15—11.

Blanshine, Allison W., and C. J. Kermes, to Sperry Rand Corp. Tractor drawn forage harvester. 194,112, 11–20–62, Cl. 740—1.

Blaser, Anne L. Glass holder. 192,782, 5–15–62, Cl. D4—3.

Blevins, Kenneth A., to Type-Write Desk Mfg. Co., Inc. Table top or similar article. 193,192, 7–10–62, Cl. D33—14.

Blickman, Newton A., to S. Blickman, Inc. Dispenser for hot beverages. 193,886, 10–23–62, Cl. D2—3.

Blickman, S., Inc.: *See*—
Blickman, Newton A. 193,886.
Golden, Philip. 192,164.
Golden, Philip. 192,318.
Golden, Philip. 192,995.
Golden, Philip. 193,551.
Golden, Philip. 193,830.
Golden, Philip. 194,027.

Bliss, Beatrice. Tray table. 193,244, 7–17–62, Cl. D33—14.

Blitzer, William, to Lightolier Inc. Lighting fixture. 193,575, 9–11–62, Cl. D48—23.

Bloch, Jack, to Loma Industries. Canister. 192,813, 5–15–62, Cl. D44—6.

Bloch, Jack, to Loma Industries. Pitcher. 192,934, 5–29–62, Cl. D44—21.

Bloch, Jack, to Loma Industries. Picnic basket. 193,909, 10–23–62, Cl. D58—4.

Bloch, Jack, to Loma Industries. Dust pan. 194,217, 12–11–62, Cl. D44—18.

Block, Mary J. Door knocker or similar article. 193,836, 10–16–62, Cl. D10—7.

Blod, Francis, and G. Stehl, to J. L. Prescott Co. Jug. 193,874, 10–16–62, Cl. D58—5.

Blod, Francis E.: *See*—
Stehl, George R., and Blod. 193,253.

Blommel Sign Co., The: *See*—
Blommel, William E., Jr. 193,758.

Blommel, William E., Jr., to The Blommel Sign Co. Sign. 193,758, 10–9–62, Cl. D1—12.

Bloomfield, Daniel: *See*—
Bloomfield, Harold and D. 193,868.
Bloomfield, Harold, and D. 193,904.

Bloomfield, Harold and D., to Bloomfield Industries, Inc. Base for a table lamp. 193,868, 10–16–62, Cl. D48—20.

Bloomfield, Harold and D., to Bloomfield Industries, Inc. Table lamp. 193 904, 10–23–62, Cl. D48—20.

Bloomfield Industries, Inc.: *See*—
Bloomfield, Harold and D. 193,868.
Bloomfield, Harold and D. 193,904.

Blowers, Ivan L., to Kal-Equip Co. Compression tester. 192,939, 5–29–62, Cl. D52—6.

Bluhm, Henry H., to General Electric Co. Data accumulator cabinet. 193,991, 11–6–62, Cl. D26—5.

Bluhm, Henry H., to General Electric Co. Data collector cabinet. 193,992, 11–6–62, Cl. D26—5.

Blum, Heinz A., and J. E. Eksteins, to Entron, Inc. Coaxial cable connector. 194,149, 11–27–62, Cl. D26—1.

Blum, Julius, & Co., Inc.: *See*—
Seery, Robert F. 192,651.
Seery, Robert F. 192,652.

Blum, Louis, to Blumcraft of Pittsburgh. Post. 194,207, 12–11–62, Cl. D13—7.

Blum, Louis, to Blumcraft of Pittsburgh. Illuminable wall bracket for railings or the like. 194,261, 12–25–62, Cl. D13—7.

Blumcraft of Pittsburgh: *See*—
Blum, Louis. 194,207.
Blum, Louis. 194,261.

Bodendieck Tool Co.: *See*—
Turner, William F. 192,303.

Bodian, Marcus, to Sunbeam Lighting Co. Examination light fixture. 192,645, 4–24–62, Cl. D48—20.

Boeing Airplane Co.: *See*—
Douglas, Leon L., and Gillmore. 193,074.
Gillmore, Kenneth B., and Shannon. 193,255.
Harry, David W., and Diamond. 193,075.
Stepniewski, Wieslaw Z. 192,195.
Stepniewski, Wieslaw Z. 192,665.

Boeing Co., The: *See*—
Hastings, Allan J., and Julian. 192,999.

Bohnstedt, Duane L., to General Motors Corp. Wheel cover. 193,390, 8–14–62, Cl. D14—30.
Boldt, Melvin, to Moffats Ltd. Glass panel or similar article. 193,403, 8–14–62, Cl. D36—11.
Boldt, Melvin, to Moffats Ltd. Switch knob. 193,619, 9–18–62, Cl. D26—13.
Bollin, Ernst. Urinal. 193,765, 10–9–62, Cl. D4—5.
Bond, James D., and D. R. Crenshaw, to Ekco Products Co. Ski pole basket. 193,149, 7–3–62, Cl. D34—14.
Bönisch, Josef, to Kamera-und Kinowerke, VEB. Projector. 193,592, 9–11–62, Cl. D61—1.
Bönisch, Josef, to Kamera- und Kinowerke Dresden, VEB Projector. 193,914, 10–23–62, Cl. D61—1.
Bonyhady, Emil, to Embo Casual Shoe Co. Shoe. 194,205, 12–11–62, Cl. D7—7.
Beory, Donald J., to International Telephone and Telegraph Corp. Desk stand for a combination telephone station and switching unit. 193,894, 10–23–62, Cl. D26—14.
Bopp-Decker Plastics, Inc.: *See*—
Trombley, Bertrand N. 192,174.
Trombley, Bertrand N. 192,175.
Bordinat, Eugene, Jr. Taillight unit for automobiles or the like. 192,042, 1–9–62, Cl. D48—32.
Bordinat, Eugene, Jr. Lamp lens for automobiles or the like. 192,043, 1–9–62, Cl. D48—32.
Bordinat, Eugene, Jr. Taillight unit for automobiles or the like. 192,044, 1–9–62, Cl. D48—32.
Bordinat, Eugene, Jr. Lamp lens for automobiles or the like. 192,045, 1–9–62, Cl. D48—32.
Bordinat, Eugene, Jr. Headlight bezel for automobiles or the like. 192,046, 1–9–62, Cl. D48—32.
Bordinat, Eugene, Jr. Lamp bezel for automobiles or the like. 192,099, 1–16–62, Cl. D48—32.
Bordinat, Eugene, Jr., to Ford Motor Co. Fender ornament for automobiles or the like. 192,351, 3–13–62, Cl. D14—6.
Bordinat, Eugene, Jr., to Ford Motor Co. Fender ornament for automobiles or the like. 192,416, 3–20–62, Cl. D14—6.
Bordinat, Eugene, Jr., to Ford Motor Co. Lamp lens unit for automobiles or the like. 192,479, 3–27–62, Cl. D48—32.
Bordinat, Eugene, Jr., to Ford Motor Co. Lamp lens for automobiles or the like. 192,533, 4–3–62, Cl. D48—32.
Bordinat, Eugene, Jr., to Ford Motor Co. Lamp bezel for automobiles or the like. 192,207, 7–10–62, Cl. D48—32.
Bordinat, Eugene, Jr., to Ford Motor Co. Automobile grille. 193,333, 8–7–62, Cl. D14—18.
Bordinat, Eugene, Jr., to Ford Motor Co. Automobile grille. 193,655, 9–25–62, Cl. D14—18.
Bordinat, Eugene, Jr., to Ford Motor Co. Automobile grille. 193,656, 9–25–62, Cl. D14—18.
Bordiaat, Eugene, Jr., to Ford Motor Co. Automobile grille. 193,707, 10–2–62, Cl. D14—18.
Bordinat, Eugene, Jr. to Ford Motor Co. Lamp lens for automobiles or the like. 193,803, 10–9–62, Cl. D48—32.
Bordinat, Eugene, Jr., to Ford Motor Co. Lamp bezel for automobiles or the like. 193,804, 10–9–62, Cl. D48—32.
Bordinat, Eugene, Jr., to Ford Motor Co. Fender ornament for automobiles or the like. 193,976, 11–6–62, Cl. D14—6.
Bordinat, Eugene, Jr., to Ford Motor Co. Taillight unit for automobiles or the like. 194,129, 11–20–62, Cl. D48—32.
Bordinat, Eugene, Jr., to Ford Motor Co. Automobile wheel cover. 194,208, 12–11–62, Cl. D14—30.
Bordner, Lee T., to Sierra Electric Corp. Electrical receptacle. 193,003, 6–12–62, Cl. D26—1.
Borg-Warner Corp.: *See*—
Andrews, Roy. 193,885.
Armstrong, William H. 193,757.
Armstrong, William H. 194,178.
Bornefeld, Frederick A. Crab bait clamp. 193,095, 6–26–62, Cl. D17—3.
Bosack, Irwin A.: *See*—
Armbruster, John T., and Bosack. 193,296.
Bosland, James M., to Aqua Meter Instrument Corp. Speedometer. 193,871, 10–16–62, Cl. D52—6.
Bostrom Corp.: *See*—
Bostrom, Harold W. 192,421.
Bostrom, Harold W., to Bostrom Corp. Tractor seat. 192,421, 3–20–62, Cl. D15—8.
Bostrom, John D., to Poster Packaging, Inc. Packaging container or similar article. 193,118, 6–26–62, Cl. D58—11.
Bostrom, John D., to Poster Packaging, Inc. Compartmented container. 193,119, 6–26–62, Cl. D58—13.
Bostrom, John D., to Poster Packaging, Inc. Display packaging container. 193,583, 9–11–62, Cl. D58—14.
Bouma, Lawrence. Milking machine collector vessel or the like. 193,242, 7–17–62, Cl. D23—1.
Bourne, Laura V. Bracelet or similar article. 193,799, 10–9–62, Cl. D45—4.
Bourner, Howard L., and E. Radley, Jr., to Heil-Quaker Corp. Oil burner. 194,254, 12–18–62, Cl. D81—2.
Boutin, Harold S. Building block. 192,355, 3–13–62, Cl. D18—2.
Bowers, William H., to Henry Troemner, Inc. Laboratory stand. 192,503, 4–3–62, Cl. D16—1.
Bowman, George E., T. H. Koeber, and J. R. McGirk, to International Harvester Co. Tractor. 193,180, 7–10–62, Cl. D14—3.
Bowser, Inc.: *See*—
Kamp, George B. 193,209.
Boyars, Albert. Twist chair. 192,732, 5–8–62, Cl. D15—1.
Boyertown Burial Casket Co.: *See*—
Beinert, John D. 193,184.
Beinert, John D. 193,479.
Brach, E. J., & Sons: *See*—
Brach, Frank V. 193,747.
Brach, Frank V. 194,083.
Brach, Frank V. 194,299.
Brach, Frank V. 194,300.
Brach, Frank V., to E. J. Brach & Sons. Display stand. 193,747, 10–2–62, Cl. D80—10.
Brach, Frank V., to E. J. Brach & Sons. Merchandise display case. 194,083, 11–13–62, Cl. D80—11.
Brach, Frank V., to E. J. Brach & Sons. Merchandise display case. 194,299, 12–25–62, Cl. D80—11.
Brach, Frank V., to E. J. Brach & Sons. Merchandise display case. 194,300, 12–25–62, Cl. D80—11.
Bradberry, Leon. Fish lure. 193,008, 6–12–62, Cl. D31—4.
Bradbury, James W., to Forward Corp. Fingernail drier. 193,126, 6–26–62, Cl. D86—10.
Bradd, Sidney H., Jr.: *See*—
Cardozo, Danforth, Jr., and Bradd. 194,098.
Bradley, Ira, and B. B. Ray. Shoe heel protector. 192,208, 2–13–62, Cl. D7—5.
Bradley, Ira, and B. B. Ray. Shoe heel protector. 192,784, 5–15–62, Cl. D7—5.
Brady, Walter W., and L. Nelson, to Nelson Brady Corp. Service tray for automobiles. 192,465, 3–27–62, Cl. D14—6.
Brandex, Inc.: *See*—
Marriott, David F., and Carter. 193,144.
Brandon, Alfred E. Tray. 193,795, 10–9–62, Cl. D44—10.
Brandon, Joseph J., to Coach & Car Equipment Corp. Vehicle seat. 192,165, 2–6–62, Cl. D15—8.
Bras of Hollywood-West, Inc.: *See*—
Engelmann, James A. 194,246.
Brau, Adelle M.: *See*—
Brau, Rudolph E. and A. M. 192,921.
Brau, Rudolph E. and A. M. Combined hook, pad, and pencil holder attachment for a wall telephone. 192,921, 5–29–62, Cl. D26—14.
Braun, David H., to All-Tech Industries, Inc. Panel for an amusement device. 193,434, 8–21–62, Cl. D34—5.
Braun, David H., to All-Tech Industries, Inc. Amusement vehicle apparatus. 193,898, 10–23–62, Cl. D34—5.
Braun, Harry R. Solar screen. 193,635, 9–18–62, Cl. D21—1.
Braun, Lillian. Bracelet or similar article. 192,122, 1–23–62, Cl. D45—4.
Braunschweig, Georges: *See*—
Marti, Frederic, and Braunschweig. 193,017.
Brearley Co., The: *See*—
Aleks, Vytant. 193,024.
Bremson, Robert S., Jr.: *See*—
Tetyak, John J. 192,947.
Brenner, William C., to New Jersey Porcelain Co. Golf yardage marker. 192,739, 5–8–62, Cl. D34—5.
Brewer, Ray C. Bracket for a bed spring or the like. 193,293, 7–31–62, Cl. D5—2.
Briggs, Stephen H., to General Controls Co. Wall thermostat. 193,906, 10–23–62, Cl. D52—7.
Brighton, John C.: *See*—
Brighton, John P., Brighton, and Zenor. 192,775.
Brigid, Sister Mary, C.S.A.: *See*—
Brosnan, Margaret A., and Brigid. 192,114.
Brilliant Products Inc.: *See*—
Brunette, Fredrick F. 193,772.
Briskin, Theodore S., and S. L. Pastor, to Revere Camera Co. (formerly Samica Corp.). Tape recorder. 193,514, 9–4–62, Cl. D26—14.
Britains Ltd.: *See*—
Him, George. 193,719–25.
Britton, Ernest C., to The Lighter Corp. of America. Combination knife and money clip. 193,477, 8–28–62, Cl. D17—3.
Brockman, Edwin G. Combination drafting instrument. 192,748, 5–8–62, Cl. D52—6.
Brockman, Karl V., to Stark Ceramics, Inc. Wall block. 193,092, 6–12–62, Cl. D18—2.
Brodie, Clifford Q. Game board. 193,196, 7–10–62, Cl. D34—5.
Brodie, David A. Tiddlywinks-type game board. 192,148, 1–30–62, Cl. D34—5.
Brody, Philip M., and F. H. Rahr. Tile or similar article. 194,148, 11–27–62, Cl. D18—2.
Brokaw, Robert W., to General Electric Co. Electric controls cabinet. 193,301, 7–31–62, Cl. D26—5.
Bromberg, Herbert. Panty girdle or similar article. 193,709, 10–2–62, Cl. D20—2.
Bromo Mint Co.: *See*—
Kuhn, James O. 192,369.
Brooks, Julius E., to Olin Mathieson Chemical Corp. Gun. 192,248, 2–20–62, Cl. D30—1.
Brooks, Sidney P.: *See*—
Waller, Robert J. 194,138.
Brosnan, Margaret A., now known as Sister Mary Brigid, C.S.A. Mobile beverage dispenser. 192,114, 1–23–62, Cl. D14—3.
Brown, Adolph M. Surgical clip. 193,140, 7–3–62, Cl. D17—3.
Brown, Dale R.: *See*—
Denhoff, Donald P., and Brown. 192,827.
Denhoff, Donald P., and Brown. 192,887.
Denhoff, Donald P., and Brown. 194,244.
Brown, Edward G. Game device. 193,147, 7–3–62, Cl. D34—5.

Brown, Frank D. Game board. 192,293, 2–27–62. Cl. D34—5.
Brown, Frank E.: *See*—
Corbett, William, and Brown. 192,403.
Brown, Garrett A.: *See*—
Cox, Austin E. 192,682.
Brown, Maynard H., Jr. Compound hand tool. 192,101, 1–16–62, Cl. D54—13.
Brown, Reeves, to Hardwick Stove Co. Counter top cooking unit or the like. 193,232, 7–10–62, Cl. D81—25.
Brown, Richard E.: *See*—
Westhoven, Claire J., and Brown. 193,741.
Brown, Warner K., to Clark Equipment Co. Tow tractor. 192,794, 8–15–62, Cl. D14—3.
Brown, William E. Package for popcorn and liquid therefor. 193,531, 9–4–62, Cl. D58—2.
Brown, William E. Package for popcorn and liquid therefor. 193,532, 9–4–62, Cl. D58—2.
Brown, William L., and J. E. Fitzgerald, to Fabricon Products. Car top luggage carrier. 192,499, 4–3–62, Cl. D14—27.
Browne Bros. Equipment Co.: *See*—
Olds, William M., Browne, K. C., Jr. and C. D. 194,251.
Browne, Charles D.: *See*—
Olds, William M., Browne, K. C. and C. D. 194,251.
Browne, Kenneth C.: *See*—
Olds, William M., Browne, K. C. and C. D. 194,251.
Brownstein, Henry J., to Hysan Products Co. Deodorant holder. 192,314, 3–6–62, Cl. D4—3.
Bruce, Donald S., and J. B. Dickson, to Signal-Stat Corp. Vehicle marker lamp. 193,633, 9–18–62, Cl. D48—32.
Bruder, Edward A.: *See*—
Szuba, Walter D., and Bruder. 193,695.
Szuba, Walter D., and Bruder. 193,696.
Brueder, Antoine, to Andre Citroen, Societe Anonyme, Automobile. 193,423, 8–21–62, Cl. D14—3.
Brugeau, Albert E., Garden weeder or the like. 192,868, 5–22–62, Cl. D35—2.
Brunette, Fredrick F., to Brilliant Products Inc. Utility cart. 193,772, 10–9–62, Cl. D14—3.
Brunsing, Rex L. Can carrier. 192,893, 5–22–62, Cl. D58—27.
Brunswick Corp.: *See*—
Chapman, Dave, and Yamasaki. 193,243.
Chapman, Dave, and Yamasaki. 193,858.
Hart, George H. 192,581.
Reineman, Richard G., Hart, and Schaefer. 192,086.
Reineman, Richard G., and Schaefer. 192,010.
Reineman, Richard G., and Schaefer. 193,009.
Reineman, Richard G., and Schaefer. 193,193.
Reineman, Richard G., and Schaefer. 194,037.
Schaefer, George E. 192,677.
Bryant, Gerald J. Combined money counter and wrapper. 192,611, 4–17–62, Cl. D52—3.
Bucheimer-Clark Leather Goods Corp.: *See*—
Clark, Earl J. 192,364.
Buckley, William H., to Standard Brands Inc. Jar. 193,311, 7–31–62, Cl. D58—25.
Buckley, William H., to Standard Brands Inc. Jar. 193,312, 7–31–62, Cl. D58—25.
Buderman, Wilhelmus H. M., to North American Philips Co., Inc. Shaving kit. 192,960, 6–5–62, Cl. D22—3.
Buechler, Alfred D., and N. Horn; said Buechler assor. to said Horn. Coupling tool or the like. 192,333, 3–6–62, Cl. D54—13.
Buegeleisen, Joseph, Co.: *See*—
Zbikowski, Ted. 194,221.
Buffamoyer, Mark E. Combined golf course tee-off marker and cigarette holder. 192,012, 1–2–62, Cl. D34—5.
Bugge, Erling P. Slide bolt unit. 192,442, 3–20–62, Cl. D50—5.
Bukolt, Victor J., Jr.: *See*—
Kirkpatrick, Marie A., and Bukolt. 192,847.
Bullock, Nelson. Combined storage and dispensing container for bread or the like. 193,794, 10–9–62, Cl. D44—6.
Bulman, E. O., Mfg. Co., Inc.: *See*—
Waltz, Edward. 193,415.
Bulova Watch Co., Inc.: *See*—
Ferguson, Howard. 192,305.
Bunker, Henry L., Jr., and W. J. Powers, Jr., to E. I. du Pont de Nemours and Co. Anti-skid unit for automobile tires. 193,463, 8–21–62, Cl. D90—20.
Bunting Co., Inc., The: *See*—
Pearlstine, Morton. 192,353.
Buonauro, Frank A.: *See*—
Groff, Emory L., Jr. 192,103.
Groff, Emory L., Jr. 193,362.
Buonauro, Frank A. Combined packaging and serving container. 193,158, 7–3–62, Cl. D58—25.
Burbig, Henry. Needle pulling thimble. 194,257, 12–25–62, Cl. D3—19.
Burdick, Ralph V., and R. V. Burdick, Jr. Shoe polish box. 193,219, 7–10–62, Cl. D58—11.
Burdick, Ralph V., Jr.: *See*—
Burdick, Ralph V., and R. V. Burdick, Jr. 193,219.
Burgess Vibrocrafters, Inc.: *See*—
Anderson, Douglas W. 192,470.
Anderson, Douglas W. 192,614.
Anderson, Douglas W., and Alger. 193,427.
Burns, James O., to Ormston Burns Ltd. Tremolo unit for a guitar or similar article. 193,113, 6–26–62, Cl. D56—1.
Burns, James O., to Ormston Burns Ltd. Tremolo unit for a stringed musical instrument. 194,067, 11–13–62, Cl. D56—1.
Burns, Ormston, Ltd.: *See*—
Burns, James O. 193,113.
Burns, Sam, to Whitehead Chain Saw Co. Chain saw. 193,828, 10–9–62, Cl. D93—3.
Burroughs Corp.: *See*—
Parris, Samuel R. 193,451.
Burt, Harold R.: *See*—
Campbell, H. Albert, Jr., and Burt. 193,785.
Burton, Clarence A.: *See*—
Statler, William H., Hoben, and Burton. 193,073.
Busch, Frank B., W. E. Fillmore, and I. H. Miller, to Owens-Illinois Glass Co. Jar or similar article. 192,944, 5–29–62, Cl. D58—25.
Buschbom, Floyd E., to Vandale Corp. Top shield for a silo unloader. 192,570, 4–10–62, Cl. D40—1.
Bush, Robert G., to L. D. Schreiber & Co., Inc. Sliced cheese package. 192,618, 4–17–62, Cl. D58—2.
Butler, Arnold J., A. M. Davis, and J. F. Talerico, to International Business Machines Corp. Cartridge for magnetic tape. 192,505, 4–3–62, Cl. D26—14.
Butler Industries, Inc.: *See*—
Goldstein, Arthur, and Sobel. 193,748.
Sobel, Theodore, and Goldstein. 193,749.
Butler, Jacob C., to The William Getz Corp. Dental mirror or similar article. 193,428, 8–21–62, Cl. D24—1.
Butler, Thomas C., and S. H. Kohler, to The Black and Decker Mfg. Co. Portable cordless drill. 193,025, 6–12–62, Cl. D54—14
Butsnac, John E., to Applied Power Industries, Inc. Vehicle lift. 192,522, 4–3–62, Cl. D41—1.
Butzko, Robert L. Pie pan cover. 192,660, 4–24–62, Cl. D58—26.
Buzzitta, Giacomo J., to Stow & Davis Furniture Co. Chair. 193,889, 10–23–62, Cl. D15—1.
Cabell, Douglas N.: *See*—
Przybylowicz, Alfred J., and Cabell. 192,869.
Przybylowicz, Alfred J., and Cabell. 193,153.
Cadillac Gage Co.: *See*—
Bauer, Russell E. 193,771.
Cal-Cod Process Corp.: *See*—
Kofsky, Melvin H., and Karp. 192,925.
Caloric Appliance Corp.: *See*—
Clark, Robert A., and Helgeson. 193,822.
Calwis Co.: *See*—
Anderson, James W. 192,697.
Camboc Fastener Corp.: *See*—
Griffiths, Edward G. 193,761.
Caminker, Bernard, and N. Leichter, to Ajax Hardware Mfg. Corp. Cabinet knob. 193,385, 8–14–62, Cl. D10—8.
Caminker, Bernard, and N. Leichter, to Ajax Hardware Mfg. Corp. Knob for cabinet door. 193,545, 9–11–62, Cl. D10—8.
Campbell, Caleb L., and L. F. Redin. Lap tray or the like. 192,525, 4–3–62, Cl. D44—10.
Campbell, Claude C., to Yolanda Art, Inc. Combined towel and soap support for mounting on a shower door. 192,993, 6–12–62, Cl. D4—3.
Campbell, Donald H., and R. Schad, to Rigidized Metals Corp. Embossed metal sheet. 193,907, 10–23–62, Cl. D54—2.
Campbell, H. Albert, Jr., and H. R. Burt, to Code-A-Phone Electronics, Inc. Magnetic tape cartridge. 193,785, 10–9–62, Cl. D26—14.
Campbell, Laurie J., to Louis Marx & Co. Inc. Gyroscope toy. 194,216, 12–11–62, Cl. D34—15.
Campion, Edward J. Exercise device. 193,940, 10–30–62, Cl. D34—5.
Canakes, Thomas D. Combined storage and dispensing holder for packaged articles. 193,356, 8–7–62, Cl. D52—2.
Cannon, Frederick N. and W. L. Boat boarding ladder. 193,890, 10–23–62, Cl. D15—8.
Canning, Walter L.: *See*—
Canning, Frederick N. and W. L. 193,890.
Cannon Electric Co.: *See*—
Willis, Grant N. 193,068.
Cantu, Rudolph W. Casting reel for fishing tackle. 193,346, 8–7–62, Cl. D31—4.
Caputo, Edward J.: *See*—
Hageal, Neal, and Caputo. 192,848.
Cardozo, Danforth, Jr.: *See*—
Hopp, Philip, Ensign, and Cardozo. 193,236.
Cardozo, Danforth, Jr., and S. H. Bradd, Jr., to Simpson Timber Co. Door. 194,098, 11–20–62, Cl. D13—1.
Carlile, Alfred E. Pull for a slide fastener. 193,297, 7–31–62, Cl. D17—8.
Carlsen, Carl E. Needle threader. 193,701, 10–2–62, Cl. D3—19.
Carlson, Arthur F., to Shore-Calnevar, Inc. Wheel cover. 193,295, 7–31–62, Cl. D14—30.
Carlson, Earl W., and G. E. Christmas tree ornament. 194,266, 12–25–62, Cl. D29—1.
Carlson, George E., to Minnesota Rubber Co. Egg freshness tester. 192,879, 5–22–62, Cl. D52—6.
Carlson, George E., to Minnesota Rubber Co. Outboard motor impeller hub. 193,744, 10–2–62, Cl. D71—1.
Carlson, Gwendolyn E.: *See*—
Carlson, Earl W., and G. E. 194,266.
Carlson, Ingrid G. Figurine. 193,995, 11–6–62, Cl. D29—23.
Carlton, William C. Shuttlecock. 193,401, 8–14–62, Cl. D34—5.
Carnation Co.: *See*—
Van Voorhis, Noble. 193,654.
Carnes, Robert L. Spoon or similar article of flatware. 193,948, 10–30–62, Cl. D54—12.

Carpenter, Ervin C.: *See*—
Woolums, Norman C., and Carpenter. 193,069.
Carpenter, George K. Combined seat and table unit. 192,512, 4–3–62, Cl. D33—14.
Carpenter, Herbert R., to Club Aluminum Products Co. Beverage server or the like. 192,038, 1–9–62, Cl. D44—21.
Carpenter, Herbert R., to Club Aluminum Products Co. Beverage server or the like. 192,094, 1–16–62, Cl. D44—21.
Carpenter, Herbert R., to Club Aluminum Products Co. Steak platter. 193,796, 10–9–62, Cl. D44—10.
Carpenter, Herbert R., to Club Aluminum Products Co. Soup tureen. 193,797, 10–9–62, Cl. D44—15.
Carpenter, Herbert R., to Club Aluminum Products Co. Tureen. 194,115, 11–20–62, Cl. D44—15.
Carroll, Johnie L. Spear gun. 192,119, 1–23–62, Cl. D30—1.
Carter Craft, Inc.: *See*—
Barnes, John S. 193,559.
Carter, John C. Mortuary dressing table or similar article. 192,986, 6–5–62, Cl. D83—1.
Carter, Le Roy T.: *See*—
Marriott, David F., and Carter. 193,144.
Carter, Ronald, to Joseph Gillott & Sons Ltd. Furniture castor. 192,627, 4–24–62, Cl. D10—6.
Carter's Ink Co., The: *See*—
Ayres, Samuel, Jr. 192,310.
Ayres, Samuel, Jr. 193,918.
Cartoons Circus, Inc.: *See*—
Collinger, William W., Hunn, and Moore. 193,672.
Carvlin, John F., to Missionary Society of St. Paul the Apostle in the State of California. Display stand for pamphlets or the like. 193,459, 8–21–62, Cl. D80—9.
Case, Henry E., Computer for use in determining the terms of installment financing. 193,576, 9–11–62, Cl. D52—1.
Casley, Dallas S., to Penn Metal Co., Inc. Ornamental expanded metal sheet for balcony rails. 192,332, 3–6–62, Cl. D54—2.
Cassara, Vincent. Wall plaque. 192,469, 3–27–62, Cl. D29—23.
Castedello, William: *See*—
Schwartz, Morris, and Castedello. 192,234.
Castelli, Charles, to Johnson & Johnson. Holder for a spool of tape. 192,455, 3–20–62, Cl. D58—26.
Castorani, Francesco P., to Quaker Lace Co. Tablecloth. 193,495, 8–28–62, Cl. D92—26.
Celotex Corp., The: *See*—
Allen, Charles W., Jr. 192,077.
Allen, Charles W., Jr. 193,552.
De Leon, Sharon. 192,186.
De Leon, Sharon. 193,655.
Central Brass Mfg. Co., The: *See*—
Kawolics, Raymond P. 192,592.
Chaban, Joseph M. Combined coin holder and dispenser. 193,248, 7–17–62, Cl. D52—4.
Chadbourne, Gilbert K., to Keyes Fibre Co. Packaging tray. 193,071, 6–19–62, Cl. D58—13.
Chain Belt Co.: *See*—
Snavely, Joseph W. 192,386.
Challenge-Cook Bros. Inc.: *See*—
Johnston, James G. 193,773.
Prichard, Evan S. 192,027.
Chambers Corp.: *See*—
Klepzig, Walter G. 194,010.
Chambers, James C. Range finder. 193,634, 9–18–62, Cl. D52—6.
Chambers, Marshall R. Fluid pressure test gage. 192,820, 5–15–62, Cl. D52—6.
Chambers, Ralph F., to Galdwin Plastics, Inc. Combined tray and light housing. 192,669, 4–24–62, Cl. D80—11.
Chambers, Ralph F., to Gladwin Plastics, Inc. Combined tray and light housing. 192,670, 4–24–62, Cl. D80—11.
Chaney, John L. Faucet seal. 192,907, 5–22–62, Cl. D91—3.
Chapman, Dave, and K. Yamasaki, to Brunswick Corp. Magazine rack or the like. 193,243, 7–17–62, Cl. D33—2.
Chapman, Dave, and K. Yamasaki, to Brunswick Corp. Drop leaf desk or the like. 193,858, 10–16–62, Cl. D33—11.
Chapman, Frederick D., to The Murray Corp. of America. Lavatory. 193,167, 7–10–62, Cl. D4—2.
Chapman, Frederick D., to The Murray Corp. of America. Lavatory. 194,021, 11–13–62, Cl. D4—2.
Chapman, Galen O. Thermostat. 194,124, 11–20–62, Cl. D52—1.
Chapman, George S. Dish drainer basket. 192,477, 3–27–62, Cl. D44—29.
Chapman, George S. Dish drainer basket. 194,056, 11–13–62, D4—29.
Chapman, Howard D., to Clarin Mfg. Co. Chair. 192,559, 4–10–62, Cl. D15—8.
Chapman, Hugh A. Level. 192,974, 6–5–62, Cl. D52—6.
Chappell, William A.: *See*—
Talge, Henry J., Grant and Chappell. 192,079.
Talge, Henry J., Grant, and Chappell. 192,080.
Charles, Ellis E., to W. E. Anderson, Inc. Flow meter. 192,699, 5–1–62, Cl. D52—6.
Charleston Molded Fiber Glass Co.: *See*—
Van Buren, Tracy H., Jr. 193,657.
Charpentier, Louis, to G. Josephson. Planter. 193,999, 11–6–62, Cl. D35—3.
Charpentier, Louis, to Gilbert Josephson. Planter. 194,050, 11–13–62, Cl. D35—3.
Chase, David O., and P. H. Stevens, to Smith-Corona Marchant Inc. Typewriter. 192,194, 2–6–62, Cl. D64—11.
Chautauqua Hardware Corp.: *See*—
Hazenberg, Cornell D. 192,350.
Hazenberg, Cornell D. 193,768.
Chavatel, George R., to Newport News Shipbuilding and Dry Dock Co. Room partitioning screen. 193,238, 7–17–62, Cl. D13—1.
Cheifetz, Howard L. Centrifuge tube. 194,102, 11–20–62, Cl. D16—2.
Chemical Sales, Inc.: *See*—
Lipschutz, Sidney, and Barnett. 194,168.
Chemor, Tufic-Antonio. Dish or like article. 192,436, 3–20–62, Cl. D44—15.
Chemor, Tufic-Antonio. Dish or like article. 192,437, 3–20–62, Cl. D44—15.
Chemor, Tufic-Antonio. Dish or like article. 192,743, 5–8–62, Cl. D44—15.
Cheramy, Inc.: *See*—
Schmidt, Del. 192,237.
Cherry, Albert T. Holder for a pair of spectacles and a pencil or the like. 192,617, 4–17–62, Cl. D57—1.
Cherry-Burrell Corp.: *See*—
Walsh, John C., and Haselton. 193,779.
Child Guidance Toys, Inc.: *See*—
Genin, Robert I., and Wirch. 192,368.
Genin, Robert I., and Wirch. 192,518.
Genin, Robert I., and Wirch. 194,048.
Choptowich, John. Game board. 194,110, 11–20–62, Cl. D34—3.
Chris-Craft Corp.: *See*—
Lo Turco, Raymond A. 193,697.
Christine, William C.: *See*—
Pierce, Joseph E., and Christine. 194,123.
Chrysler Corp.: *See*—
Bishop, George K. 192,730.
Grove, Robert. 192,500.
Krispinsky, George M. 194,101.
Mashigan, Charles. 194,100.
Churchill, Warren R. to Kusan Inc. Audio communication hat. 193,381, 8–14–62, Cl. D3—13.
Churchman, Fred L., and J. L. Garske. Water sled. 193,414, 8–14–62, Cl. D71—1.
Circle F Mfg. Co.: *See*—
Zoda, Frederick A. 192,426.
Clairol Inc.: *See*
Mangini, John, and Reed. 192,980.
Clanton, Hollis L., to Kaiser Steel Corp. Building block. 193,892, 10–23–62, Cl. D18—2.
Clarin Mfg. Co.: *See*—
Chapman, Howard D. 192,559.
Clark, Earl J., to Bucheimer-Clark Leather Goods Corp. Holster. 192,364, 3–13–62, Cl. D30—1.
Clark Equipment Co.: *See*—
Brown, Warner K. 192,794.
Highberger, Samuel M. 193,505.
Highberger, Samuel M., and Kuypers. 193,975.
McKee, Dale W., and Greenman. 192,415.
Clark, George V., Co., Inc.: *See*—
Hirschland, Richard S., and A. A. and S. R. Cohen. 194,005.
Clark, J. R., Co., The: *See*—
Munson, Donald J. 192,800.
Clark, Robert A., and P. L. Helgeson, to Caloric Appliance Corp. Stove. 193,822, 10–9–62, Cl. D81—4.
Clarke, Victor: *See*—
Riley, Eileen, and Clarke. 194,165.
Clauss, Gordon J. Building screen wall. 194,184, 12–4–62, Cl. D18—2.
Clawson, Robert H., and W. R. Horne, to The Procter & Gamble Co. Bar of soap or the like. 192,834, 5–15–62, Cl. D73—1.
Clay-Adams, Inc.: *See*—
Asnes, Marvin A., and Goda. 193,981.
Goda, George. 194,052.
Clayton Corp. of Delaware, Inc., The: *See*—
Neupert, Eugene H. 192,456.
Clayton, La Verne E., to Amerock Corp. Pull. 192,240, 2–20–62, Cl. D10—8.
Clayton, La Verne E., to Amerock Corp. Pull. 193,546, 9–11–62, Cl. D10—8.
Clemens, Herbert A., to National Packaging Corp. Compartmented tray. 192,129, 1–23–62, Cl. D58—13.
Clement, Carl J., Jr., and E. A. Inhelder, to Hewlett-Packard Co. Cabinet for electronic apparatus. 193,989, 11–6–62, Cl. D26—5.
Clemente, Waldemar. Liquefier. 193,883, 10–16–62, Cl. D89—1.
Clemmer, Richard R.: *See*—
Lueken, John M., and Clemmer. 193,078.
Cleveland Aerosol Packaging Corp.: *See*—
Green, Edward H. 193,587.
Green, Edward H. 193,588.
Cleveland Skate Co., Inc., The: *See*—
Reynolds, Clarence R. 192,928.
Clever, Donald G., to Proen Products Co. Combination bird feeder, planter or the like. 193,787, 10–9–62, Cl. D31—2.
Clink, Oscar M. Fishing rod handle. 194,153, 11–27–62, Cl. D31—4.
Clinton, Elmer J. Swim training device. 194,268, 12–25–62, Cl. D34—5.
Closure Specialty Co.: *See*—
Rolley, Charles A. and Southwell. 194,222.

Club Aluminum Products Co.: *See*—
Carpenter, Herbert R. 192,038.
Carpenter, Herbert R. 192,094.
Carpenter, Herbert R. 193,796.
Carpenter, Herbert R. 193,797.
Carpenter, Herbert R. 194,115.

Clute, Charles V. to Thatcher Glass Mfg. Co., Inc. Jar. 193,035, 6–12–62, Cl. D58—25.

Coach & Car Equipment Corp.: *See*—
Brandon, Joseph J. 192,165.

Coastal Dynamics Corp.: *See*—
Antoine, Vernon F. 194,194.

Coates, Raymond N. Ornamental water fountain. 192,406, 3–13–62, Cl. D91—4.

Coca-Cola Co., The: *See*—
Goldstein, Jack, and Wheeler. 193,638.
Hodgman, Clare E. 192,180.
Hodgman, Clare E. 192,756.
Hodgman, Clare E. 193,759.

Cochran, Amber L. Beverage advertising sign or the like. 193,261, 7–24–62, Cl. D1—12.

Cockshutt Farm Equipment Ltd.: *See*—
Lathe, Robert R. 192,091.
Lathe, Robert R. 193,062.

Code-A-Phone Electronics, Inc.: *See*—
Campbell, H. Albert, Jr., and Burt. 193,785.

Coggins, J. B., Mfg. Co., The: *See*—
Coggins, Leslie H. 192,783.

Coggins, Leslie H., to The J. B. Coggins Mfg. Co. Combined support and bolt for a toilet seat hinge set. 192,783, 5–15–62, Cl. D4—5.

Cohen, Adrian A.: *See*—
Hirschland, Richard S., and A. A. and S. R. Cohen. 194,005.

Cohen, Maurice. Size indicator for a garment hanger. 192,845, 5–22–62, Cl. D1—3.

Cohen, Oscar. Hanger or similar article. 193,746, 10–2–62, Cl. D80—8.

Cohen, Robert. Boat. 192,397, 3–13–62, Cl. D71—1.

Cohen, Stanley R.: *See*—
Hirschland, Richard S., and A. A. and S. R. Cohen. 194,005.

Cohn, David. Toy bowling pin support. 192,087, 1–16–62, Cl. D34—5.

Cohn, Irwin. Ball popping device. 192,569, 4–10–62, Cl. D34—15.

Cohn, Sidney E. Boot. 193,766, 10–9–62, Cl. D7—7.

Cole, Austin, III, to United Process Machinery Co. Machine for making foamed plastics or the like. 192,751, 5–8–62, Cl. D55—1.

Cole, Raymond C., to International Latex Corp. Brassiere. 192,685, 5–1–62, Cl. D20—4.

Coleman, Nelson R. Combined handle stick and cup cover for frozen confection or the like. 192,225, 2–13–62, Cl. D44—1.

Coley, Clarence N. Collapsible tube squeezer. 192,004, 1–2–62, Cl. D4—3.

Colgate-Palmolive Co.: *See*—
Ferraro, Joseph G. 193,637.
Koenigsberg, Victor. 194,070.

Collerman, Joan S. Ring. 192,379, 3–13–62, Cl. D45—10.

Collerman, Joan S. Ring. 192,380, 3–13–62, Cl. D45—10.

Colley, Arthur R. Can opener. 192,095, 1–16–62, Cl. D44—29.

Collinger, William W., W. E. Hunn, and J. W. Moore, to Cartoons Circus, Inc. Children's theater. 193,672, 9–25–62, Cl. D34—15.

Collins, Harry J., Jr., to Cutler, Hammer, Inc. Treadle operated electric switch unit. 193,553, 9–11–62, Cl. D26—13.

Collins, Lawrence R.: *See*—
Munz, Robert E., and Collins. 193,228.

Colony Textiles, Inc.: *See*—
Hyman, Oscar. 193,925.

Columbia Mfg. Co., Inc., The: *See*—
Amberg, John A. 193,377.

Columbus Plastic Products, Inc.: *See*—
Roop, Nathan W. 192,519.
Siegel, Milton M. 193,288.
Siegel, Milton M. 193,453.

Combs, Clyde M. Portable rack for storing and dispensing cans. 192,378, 3–13–62, Cl. D44—29.

Comfort Lines, Inc.: *See*—
Gelman, Harry A. 192,731.

Commerce Clearing House, Inc.: *See*—
Johnson, Arthur F. 192,324.
Johnson, Arthur F. 192,325.

Commissariat a l'Energie Atomique: *See*—
Farcy, Paul, and Sayen. 192,354.

Conde, Jose A., to The Vendo Co. Beverage vending machine. 192,151, 1–30–62, Cl. D52—3.

Conde, Jose A., to The Vendo Co. Beverage dispensing machine. 192,937, 5–29–62, Cl. D52—3.

Connecticut Technical Corp.: *See*—
Harkins, William H. 192,641.

Conner, James M.: *See*—
Dreyfuss, Henry, and Conner. 193,590.
Dreyfuss, Henry, Purcell, and Conner. 193,838.

Conners, Robert J. Combined bottle opener and cap holding device. 194,280, 12–25–62, Cl. D44—29.

Conover, Lawrence H.: *See*—
Nissen, George P., and Conover. 193,859.
Nissen, George P., and Conover. 193,860.
Nissen, George P., and Conover. 193,861.
Nissen, George P., and Conover. 193,862.

Conroy, Edward J., to The International Silver Co. Fork or similar article of flatware. 193,735, 10–2–62, Cl. D54—12.

Consolidated Electrodynamics Corp.: *See*—
Fischer, Albert W. 193,895.

Consolidated Molded Products Corp.: *See*—
Jones, William T. 193,064.

Consoweld Corp.: *See*—
Endrizzi, Gilbert D. 192,779.

Continental Can Co., Inc.: *See*—
Dike, Roy W. 192,654.

Contractors' Components Inc.: *See*—
Massa, Erwin T., and Imbrie. 192,507.

Conway, Ernest L. Boat. 192,065, 1–9–62, Cl. D71—1.

Conway, William F.: *See*—
Rowland, Donald G., Pannone, and Conway. 193,050.

Cook Chemical Co.: *See*—
Ridenour, Stewart J., and Pickinpaugh. 192,429.

Cooke, Lawrence E. Light diffusing fixture. 192,607, 4–17–62, Cl. D48—23.

Cooke, Lawrence E. Light diffusing fixture. 192,608, 4–17–62, Cl. D48—23.

Coon, Gerth. Hanger for slacks or similar article. 192,585, 4–10–62. Cl. D80—8.

Cooney, John R., to Pullman Inc. Combination passenger and vehicle transport railway car. 193,227, 7–10–62, Cl. D66—1.

Copeland, Arnold J., R. Baker, and R. Y. Kimura, to Standard Brands Inc. Jar. 194,290, 12–25–62, Cl. D58—25.

Copeland, Michael C.: *See*—
Copeland, Nathaniel C. and M. C. 192,541.

Copeland, Nathaniel C. and M. C. Vehicle-borne boat. 192,541, 4–3–62, Cl. D71—1.

Copony, Edward L.: *See*—
Bateman, Coates F., Mankin, Copony, Smith, and Monigle. 192,817.
Bateman, Coates F., Mankin, Copony, Smith, and Monigle. 192,818.
Bateman, Coates F., Mankin, Copony, Smith, and Monigle. 192,819.

Corbett, William H., and F. E. Brown, to The De Vilbiss Co. Medicament nebulizer. 192,403, 3–13–62, Cl. D83—1.

Corbino, Alfio L. Combined fountain brush and dental cream holder. 192,239, 2–20–62, Cl. D9—2.

Corley, Jasper L.: *See*—
Watson, Lester E., and Corley. 192,199.

Cormier, Alcide O., to R. J. G. Nadeau. Sock. 192,439, 3–20–62, Cl. D47—7.

Cornelius Co., The: *See*—
Cornelius, Richard T. 194,175.

Cornelius, Richard T., to The Cornelius Co. Beverage dispenser. 194,175, 12–4–62, Cl. D2—3.

Cornelius, Nels F. Cup. 194,053, 11–13–62, Cl. D44—9.

Corning Glass Works: *See*—
Curtis, William M. 192,226.
Curtis, William M. 193,920.
Curtis, William M. 194,277.
Wright, Jerry E. 192,528.
Wright, Jerry E. 192,550.

Cornwell, Ross E.: *See*—
Ernest, Robert O., and Cornwell. 192,370.
Lepson, Ivar, and Cornwell. 192,555.

Cornwell, Ross E., to Sunbeam Corp. Combined engine shroud and blade housing for a lawn mower. 192,295, 2–27–62, Cl. D40—1.

Corp, Paul M., to Allianceware, Inc. Water closet. 192,494, 4–3–62, Cl. D4—5.

Corp, Paul M. Lavatory. 193,605, 9–18–62, Cl. D4—2.

Corry Jamestown Corp.: *See*—
Wassmann, Lute. 192,584.

Corsette, Douglas F., to The Drackett Co. Spray dispensing pump head. 193,365, 8–7–62, Cl. D62—2.

Cory Corp.: *See*—
Defano, Don J., and Kallman. 193,426.

Cory, George J. Combined clip board and light. 192,308, 2–27–62, Cl. D74—2.

Cory, Thomas L., to Owens Plastics Co. Jug. 192,708, 5–1–62, Cl. D58—5.

Cosmos Products Co.: *See*—
Wada, Tadahide. 193,266.

Coughlin, Patricia. Sock clamp or similar article. 192,076, 1–16–62, Cl. D17—6.

Countess Mara, Inc.: *See*—
McMenemy, William S. 194,084.
McMenemy, William S. 194,147.

Countryman, Arthur I.: *See*—
McGrady, Harry E., and Countryman. 192,997.

Countryman, Roy, to B. F. Trappeys Sons Inc. Bottle. 194,132, 11–20–62. Cl. D58—6.

Courtwright, Robert M. Laboratory cabinet. 193,509, 9–4–62, Cl. D16—2.

Covington, Mabel V. Stand for supporting a waste can or the like. 192,889, 5–22–62, Cl. D58—26.

Cowan, Murray L., to Speidel Corp. Expansible link chain for a bracelet or similar article. 192,123, 1–23–62, Cl. D45—4.

Cowan, Murray L., to Speidel Corp. Expansible link chain for a bracelet or similar article. 193,019, 6–12–62, Cl. D45—4.
Cowan, Murray L., to Speidel Corp. Bracelet link or similar article. 193,442, 8–21–62, Cl. D45—4.
Cowan, Murray L., to Speidel Corp. End link for a bracelet or similar article. 193,443, 8–21–62, Cl. D45—4.
Cowan, Murray L., to Speidel Corp. Watch bracelet component or similar article. 193,444, 8–21–62, Cl. D45—4.
Cowan, Murray L., to Speidel Corp. End link for a bracelet or similar article. 193,445, 8–21–62, Cl. D45—4.
Cowan, Murray L., to Speidel Corp. Expansible link chain for a bracelet or similar article. 194,057, 11–13–62, Cl. D45—4.
Cox, Austin E., to G. A. Brown. Building. 192,682, 5–1–62, Cl. D13—1.
Cox Industries, Inc. : *See—*
William T. 194,108.
Cox, William T., to Cox Industries, Inc. Angular wire support for fence. 194,108, 11–20–62, Cl. D28—1.
Coy Corp. : *See—*
Sherman, William S. 192,276.
Craighead, Wilson. Leather pig bank. 193,996, 11–6–62, Cl. D34—11.
Crain, Lee J., to Superior Industries, Inc. Step for a truck. 193,332, 8–7–62, Cl. D14—6.
Craw, Freeman G., to American Type Founders Co., Inc. Font of type. 194,170, 11–27–62, Cl. D64—12.
Crease, Pierre L., to Dominion Electric Corp. Invertible oven-broiler or the like. 194,200, 12–4–62, Cl. D81—10.
Creigh, Walter F. Ventilating panel for a computer cabinet or the like. 193,159, 7–3–62, Cl. D62—4.
Crenshaw, David R. : *See—*
Bond, James D., and Crenshaw. 193,149.
Crenshaw, David R., to Ekco Products Co. Ski pole handle. 192,866, 5–22–62, Cl. D34—14.
Crenshaw, David R., to Ekco Products Co. Combined fishing rod handle and reel seat. 192,963, 6–5–62, Cl. D31—4.
Crews, Stanley C. and G. W. Florian. Power unit for a chain saw. 193,700, 9–25–62, Cl. D93—3.
Cronenwett, Joal : *See—*
Sudler, James S., and Cronenwett. 192,514.
Cronheim, Richard B. Teakettle. 192,016, 1–2–62, Cl. D44—25.
Crowl, Walter D. : *See—*
Bently, George K., and Crowl. 194,135.
Crowle, Robert H., and C. E. Jones. Unitary punching and binding machine. 192,265, 2–20–62, Cl. D55—1.
Crowle, Robert H. and W. G., and C. E. Jones, to Swingline Inc. Combined stapler and staple remover or similar article. 192,542, 4–3–62, Cl. D74—1.
Crowle, Robert H. and W. G., and C. E. Jones, to Swingline Inc. Stapling machine or similar article. 192,543, 4–3–62, Cl. D74—1.
Crowle, Robert H. and W. G., and C. E. Jones, to Swingline Inc. Stapling machine or similar article. 192,544, 4–3–62, Cl. D74—1.
Crowle, William G. : *See—*
Crowle, Robert H. and W. G., and Jones. 192,542.
Crowle, Robert H. and W. G., and Jones. 192,543.
Crowle, Robert H. and W. G., and Jones. 192,544.
Crown Stove Works : *See—*
Rogers, John C. 192,624.
Crownover, Glen D. Circular fireplace. 192,491, 3–27–62, Cl. D81—7.
Cuffman Co., Inc., The : *See—*
Gore, Fred M., and Koller. 193,574.
Culligan, Inc. : *See—*
Reinecke, Jean O. 192,284.
Cumbus, Jerry, ½ to I. O. Kursh. Clock. 193,198, 7–10–62, Cl. D42—7.
Cummiskey, Joseph V. Clothes rack. 193,394, 8–14–62, Cl. D33—8.
Curello, Charles, to Mite Corp. Needle gage. 192,698, 5–1–62, Cl. D52—6.
Curley Co., Inc. : *See—*
Lonker, Arthur. 192,755.
Curtin, Paul J., E. B. Smith, Jr., and R. E. Rodriguez, to McGraw-Edison Co. Lighting fixture. 192,381, 3–13–62, Cl. D48—31.
Curtis, Eloise, Inc. : *See—*
Jaagipol, Harri. 194,302.
Jaagipol, Harri. 194,303.
Curtis, Eugene E. Flying bird toy. 193,015, 6–12–62, Cl. D34—15.
Curtis Publishing Co., The : *See—*
Bille, Steven T., and Heinz. 193,307.
Curtis, William M., to Corning Glass Works. Dish stand or similar article. 192,226, 2–13–62, Cl. D44—10.
Curtis, William M., to Corning Glass Works. Dish warming stand or similar article. 193,920, 10–23–62, Cl. D81—10.
Curtis, William M., to Corning Glass Works. Casserole or similar article. 194,277, 12–25–62, Cl. D44—15.
Custer, Melvin W., to Johnson & Johnson. Display stand. 192,774, 5–8–62, Cl. D80—9.
Custom Plastics Corp. : *See—*
Wheeler, Clifford R. 192,190.
Cutlas Tool & Mfg. Co. : *See—*
Kapusta, John M. 192,744.
Cutler, Hammer, Inc. : *See—*
Collins, Harry J., Jr. 193,553.
Czerwonky, Ralph A., to Sunbeam Corp. Housing for a power lawn mower. 193,197, 7–10–62, Cl. D40—1.

D.B.A. Products Co., Inc. : *See—*
Regan, Patrick J. 193,384.
Dabich, George, ⅛ each to L. Kousoulos, Jr., R. M. McPhee, and P. K. Simpson. Swimming pool enclosure. 192,082, 1–16–62, Cl. D28—2.
Dabney, David H., to Federal Pacific Electric Co. Circuit breaker. 192,322, 3–6–62, Cl. D26—13.
Dad's Root Beer Co. : *See—*
Berns, Bernard A. 193,533.
Daher, Theodore G., to General Electric Co. Vacuum cleaner rug tool. 193,173, 7–10–62, Cl. D9—2.
Dahl, Aage. Table. 192,603, 4–17–62, Cl. D33—14.
Dairy Equipment Co. : *See—*
Krueger, Melvin W. 193,424.
Krueger, Melvin W. 193,473.
D'Alesandro, Nancy M. Vaporizer. 193,966, 10–30–62, Cl. D83—1.
Daley, Carol R. Computer console. 192,919, 5–29–62, Cl. D26—5.
Dam, Thomas. Toy lion. 193,560, 9–11–62, Cl. D34—2.
Dam, Thomas. Toy giraffe. 193,561, 9–11–62, Cl. D34—2.
Dam, Thomas. Toy horse. 193,562, 9–11–62, Cl. D34—2.
Dam, Thomas. Toy reindeer. 193,563, 9–11–62, Cl. D34—2.
Daniels, Gordon E. Cover for anchor nuts on the base of an outdoor standard. 193,353, 8–7–62, Cl. D48—4.
Dansk Designs-With-Light, Inc. : *See—*
Quistgaard, Jens H. 192,331.
Quistgaard, Jens H. 193,630.
Danz, Ellworth R., to General Time Corp. Clock. 193,675, 9–25–62, Cl. D42—7.
Da Prato, Joseph M. : *See—*
Van De Velde, Valere F., and Da Prato. 193,597.
Dari-Plastics, Inc. : *See—*
Raymond, George E. 192,036.
Darnell, Fred P. : *See—*
Patterson, Gillette V., and Darnell. 192,894.
Dashew Business Machines, Inc. : *See—*
Dashew, Stanley A., and Dobrowsky. 192,306.
Dashew, Stanley A., and A. G. Dobrowsky, to Dashew Business Machines, Inc. Combined printing and punching data recording machine. 192,306, 2–27–62, Cl. D64—11.
Datanamics, Inc. : *See—*
Biebel, Donald R. 192,056.
Datex Corp. : *See—*
Roesn, Norman J., Best, and Samhammer. 194,150.
Davenport, William A. Putt cup game board. 192,513, 4–3–62, Cl. D34—5.
David, William K., and W. S. Sheppley, Jr., to International Business Machines Corp. Computer communication terminal. 193,782, 10–9–62, Cl. D26—5.
Davies, John W. : *See—*
Hotz, Kenneth A., and Davies. 193,274.
Hotz, Kenneth A., and Davies. 193,998.
Davies, John W., to Gilson Bros. Co. Gocart. 193,706, 10–2–62, Cl. D14—3.
Davis, Arnold M. : *See—*
Butler, Arnold J., Davis, and Talerico. 192,505.
Davis, Arnold M., and D. Wasserthell, to International Business Machines Corp. Tape cartridge storing selecting and reading unit. 193,512, 9–4–62, Cl. D26—3.
Davis, Charles, to Armstrong Cork Co. Hard surface floor covering or similar article. 192,676, 4–24–62, Cl. D92—17.
Davis, Lynn A., Jr., to A. G. Spalding & Bros., Inc. Golf club head. 193,098, 6–26–62, Cl. D34—5.
Davis, Verla M. Pet animal bed. 193,609, 9–18–62, Cl. D15—2.
Davis, William L., and J. V. Vevirit, to McDonald Products Corp. Ash receptacle. 192,778, 5–8–62, Cl. D85—2.
Day-Brite Lighting, Inc. : *See—*
Meyer, Carl X., and Garnett. 192,876.
Daystrom, Inc : *See—*
Jensen, George B., Lane, and Parker. 194,031.
Parker, Wayland B., and Van Benschoten. 192,864.
Deadrick, James R., to Stewart-Warner Corp. Backplate for furniture hardware. 194,189, 12–4–62, Cl. D50—6.
Dean, Arthur F., and A. J. Panzica, to Stewart-Warner Corp. Line tuner instrument. 194,190, 12–4–62, Cl. D52—6.
De Angelo, Charles J. Golf putter head. 194,044, 11–13–62, Cl. D34—5.
De-Arco Diagrid Co. : *See—*
Delaney, Carroll S., and Rozzenbach. 192,286.
Deaton, Charles U. Desk. 192,069, 1–2–62, Cl. D33—7.
Deaton, Charles U. Credenza. 193,516, 9–4–62, Cl. D33—7.
Deaton, Charles U. Desk. 193,517, 9–4–62, Cl. D33—7.
Deaton, Charles U. Desk. 193,518, 9–4–62, Cl. D33—7.
Deaton, Charles U. Secretarial chair. 193,614, 9–18–62, Cl. D15—1.
Deaton, Charles U. Cabinet. 193,717, 10–2–62, Cl. D33—19.
Deaver, Dann T., to The Delman Co. Combined liquid dispenser and container. 193,640, 9–18–62, Cl. D58—17.
De Caccia, Godfrey L. Parts tray for work station. 192,054, 1–9–62, Cl. D58—13.
Decor Knok Cover Co. : *See—*
Amdur, Charles J., and Weinstein. 192,150.
Decorative Fabrics Co. Inc. : *See—*
Leavy, Natalie. 192,021.
Leavy, Natalie. 192,313.
Leavy, Natalie. 192,780.
Leavy, Natalie. 192,908.
Leavy, Natalie. 193,081.
Deeco Inc. : *See—*
Werner, Siegmund. 193,775.

Deere & Co.: *See*—
Dreyfuss, Henry, Purcell, and Conner. 193,838.
Deesen, Paul H., to General Motors Corp. Wheel cover. 192,418, 3–20–62, Cl. D14—30.
De Fano, Dominic J., to McGraw-Edison Co. Toaster. 193,-599, 9–11–62, Cl. D81—10.
Defano, Don J., and R. L. Kallman, to Cory Corp. Can opener. 193,426, 8–21–62, Cl. D22—2.
De Felice, John F. Bottle holder. 192,892, 5–22–62, Cl. D58—26.1.
De Groff, Morton S., to The Aro Corp. Portable electric belt grinding machine. 193,102, 6–26–62, Cl. D37—1.
De Jur-Amsco Corp.: *See*—
Lohmeyer, Walter G. 193,036.
Deka Plastics, Inc.: *See*—
Schnur, Martin, and Appel. 194,116.
Schnur, Martin, and Appel. 194,156.
De Kolb, Eric, to The Fuller Brush Co. Combination dispensing bottle and toy. 192,388, 3–13–62, Cl. D58—9.
De Kolb, Eric, to The Fuller Brush Co. Combination dispensing bottle and toy. 192,389, 3–13–62, Cl. D58—9.
De Koib, Eric, to The Fuller Brush Co. Combination dispensing bottle and toy. 192,390, 3–13–62, Cl. D58—9.
De Kolb, Eric, to The Fuller Brush Co. Combination dispensing bottle and toy. 192,391, 3–13–62, Cl. D58—9.
De La Marter, Louis J., and R. S. Waters, to Westinghouse Electric Corp. Air treating unit or similar article. 192,-840, 5–15–62, Cl. D81—10.
Delaney, Carrol S., and D. F. R. Roggenbach, to De-Arco Diagrid Co. Ceiling panel. 192,286, 2–27–62, Cl. D13—1.
De Leon, Sharon, to The Celotex Corp. Ceiling tile. 192,166, 2–6–62, Cl. D18—2.
De Leon, Sharon, to The Celotex Corp. Acoustical tile. 193,658, 9–25–62, Cl. D18—2.
Deletzke, Norman E. H., jr. Combined conference table and desk. 192,326, 3–6–62, Cl. D33—7.
Delfeld, William F.: *See*—
Stevens, Adolph K., and Delfeld. 193,702.
Del Grosso, Augustine. Robot suit or similar article. 193,-101, 6–26–62, Cl. D34—15.
Delman Co., The: *See*—
Deaver, Dann T. 193,640.
Del Mar, Roger A., and B. Wolf, to Aeroplastics Corp. Swimming pool toy. 193,099, 6–26–62, Cl. D34—15.
Del Mar, Roger A., and A. G. Monroy, to Aeroplastics Corp. Hobbyhorse. 193,350, 9–4–62, Cl. D34—15.
De Martin, Charles L., and E. J. Smith, to Scott Thermo-Meter Corp. Cooking thermometer for meat or the like. 192,233, 2–13–62, Cl. D52—7.
Demco Library Supplies: *See*—
Riley, Robert E. 193,716.
De Montfort, Gerald S. Bag. 192,949, 5–29–62, Cl. D71—1.
Denhoff, Donald P., and D. R. Brown, to Hoover Ball and Bearing Co. Bottle. 192,827, 5–15–62, Cl. D58—8.
Denhoff, Donald P., and D. R. Brown, to Hoover Ball and Bearing Co. Bottle. 192,887, 5–22–62, Cl. D58—8.
Denhoff, Donald P., and D. R. Brown, to Hoover Ball and Bearing Co. Jug. 194,244, 12–18–62, Cl. D58—5.
Denson, Alfred C.: *See*—
Liftin, Robert, and Denson. 193,142.
De Nys, Willy J. A. Display stand for packaged goods. 192,623, 4–17–62, Cl. D81—9.
Denzel, Marianne, to Vereinigte Metallwerke Ranshofen-Berndorf Aktiengesellschaft. Knife. 194,235, 12–18–62, Cl. D22—3.
De Pew, Thomas N., and F. A. Bell, to Arrowhead Products, Inc. Children's elevated playhouse. 193,625, 9–18–62, Cl. D34—15.
Deriaz, Andre A., to Autimex S.A. Phonograph cabinet. 192,753, 5–8–62, Cl. D56—4.
Derrickson, Michael O., to American Viscose Corp. Strap tensioning tool. 192,482, 3–27–62, Cl. D54—13.
De Sakhnoffsky, Alexis, to Attwood Corp. Combined boat light and rope cleat. 192,182, 2–6–62, Cl. D54—11.
De Sakhnoffsky, Alexis, to Attwood Corp. Bow handle. 192,183, 2–6–62, Cl. D54—11.
De Sakhnoffsky, Alexis, to Attwood Corp. Cleat. 192,184, 2–6–62, Cl. D54—11.
De Sakhnoffsky, Alexis, to Attwood Corp. Boat hook for ski tow rope. 192,185, 2–6–62, Cl. D54—11.
De Sakhnoffsky, Alexis, to Attwood Corp. Eye cleat. 192,186, 2–6–62, Cl. D54—11.
Descarries, Raymond, to Aktiebolaget Electrolux. Liquid dispenser for a surface treating machine. 192,346, 3–13–62, Cl. D9—2.
Deschamps, Robert L., to Shure Brothers Inc. Phonograph cartridge. 193,006, 6–12–62, Cl. D26—14.
Deschamps, Robert L., to Shure Bros. Inc. Phonograph needle. 193,934, 10–30–62, Cl. D26—14.
Deschamps, Robert L., and R. E. Petrie, to Shure Brothers, Inc. Microphone. 194,151, 11–27–62, Cl. D26—14.
Design Development Corp.: *See*—
Fox, William P. 192,588.
De Vilbiss Co., The: *See*—
Corbett, William H., and Brown. 192,403.
De Vos, Marcel O., to National Production Co. Wheeled toy vehicle. 193,100, 6–26–62, Cl. D34—15.
De Vries, Truman. Feeding hopper. 192,264, 2–20–62, Cl. D55—1.
Dewenter, Henry A. Vegetable juicer. 193,260, 7–17–62, Cl. D89—1.
De Zeeuw, Henry E. Jig lure. 192,735, 5–8–62, Cl. D31—4.
Diamond, John: *See*—
Harry, David W., and Diamond. 193,075.
Diamond National Corp.: *See*—
Reifers, Richard F. 193,952.
Reifers, Richard F., Hrozenchik, and Kennedy. 193,220.
Robins Seymour. 194,243.
Dickson, John B.: *See*—
Bruce, Donald S., and Dickson. 193,633.
Di Domenico, Frank, 15% to R. J. Mawhinney and A. R. Theibault. Holder for hair curlers or the like. 193,876, 10–16–62, Cl. D58—13.
Diener, Robert E., to The Warner & Swasey Co. Lathe. 194,-220, 12–11–62, Cl. D54—6.
Dietze, Ruthard, to Solida Textil- und Netzwaren-Manufaktur Ruthard Dietze K.G. Hair net. 192,206, 2–13–62, Cl. D3—13.
Di Giovanni, Frank: *See*—
Scharff, Arthur and F., and Di Giovanni. 192,690.
Dike, Roy W., to Continental Can Co., Inc. Bottle. 192,654, 4–24–62, Cl. D58—5.
Dilley, William. Bird feeder or similar article. 194,109, 11–20–62, Cl. D31—2.
Dimensional Products, Inc.: *See*—
Van Den Berg, Richard H. 193,829.
Distinguished Gift Manufacturers, Inc.: *See*—
Jackson, Duane O. 193,308.
Dobrowsky, Alfred G.: *See*—
Dashev, Stanley A., and Dobrowsky. 192,306.
Dobson, Herman L. Packaging tray for cookies or the like. 193,639, 9–18–62, Cl. D58—13.
Dobson, Ruth W.: *See*—
Bedient, Lorena G., and Mewes. 192,204.
Bedient, Lorena G., and Mewes. 193,419.
Dodson, Loyd O., to Vogue Rubber Co. Automobile tire. 193,699, 9–25–62, Cl. D90—20.
Doe, Walter P., to Fisher-Price Toys, Inc. Action toy. 192,-930, 5–29–62, Cl. D34—15.
Doerr and Associates, Inc.: *See*—
Doerr, James E. 193,645.
Doerr, James E., to Doerr and Associates, Inc. Stand for displaying and merchandising bananas. 193,645, 9–18–62, Cl. D80—9.
Doherty, Thomas H., to Mishawaka Rubber Co., Inc. Footwear sole. 193,501, 9–4–62, Cl. D7—5.
Doherty, Thomas H., to United States Rubber Co. Plastic coated fabric. 194,226, 12–11–62, Cl. D87—3.
Doherty, Thomas H., to United States Rubber Co. Plastic coated fabric. 194,227, 12–11–62, Cl. D87—3.
Dolgin, Elliot F., to Fen-Mart, Inc. Portable liquid dispenser casing. 192,343, 3–13–62, Cl. D2—3.
Dollar, Mary M., 50% to M. Winninghoff. Combined letter opener and paper weight. 192,668, 4–24–62, Cl. D74—10.
Domes, E. A., to International Harvester Co. Vehicle cab. 193,705, 10–2–62, Cl. D14—3.
Dominion Corset Co.: *See*—
Gingras, Marcel. 193,387.
Dominion Corset Co., Ltd.: *See*—
Verreault, Joseph. 194,035.
Dominion Electric Corp.: *See*—
Crease, Pierre L. 194,200.
Domus Products Inc.: *See*—
Stehl, George R., and Blod. 193,253.
Doo-Dee Pins, Inc.: *See*—
Sanders, Morris R. 193,510.
Dorfman, Robert. Collapsible cap or the like. 192,158, 2–6–62, Cl. D3—13.
Dornay, Henry J. Boat hull. 192,895, 5–22–62, Cl. D71—1.
Douglas Aircraft Co., Inc.: *See*—
Walker, Howell L., and Young. 193,369.
Douglas, David. Carafe. 192,642, 4–24–62, Cl. D44—21.
Douglas, David, to East Wisconsin Trustee Co. of Manitowoc. Peanmaker or similar article. 193,523, 9–4–62, Cl. D44—26.
Douglas, Donald K., jr., and K. B. Gillmore, to Boeing Airplane Co. Rotary wing aircraft. 193,074, 6–19–62, Cl. D71—1.
Douglas, Livingston C., and V. Koenigsberg. Bottle or similar article. 193,039, 6–12–62, Cl. D58—6.
Dow Chemical Co., The: *See*—
Eicholtz, Clara V. 192,334.
Eicholtz, Clara V. 192,485.
Eicholtz, Clara V. 192,943.
Eicholtz, Clara V. 193,280.
Eicholtz, Clara V. 193,584.
Eicholtz, Clara V. 193,585.
Eicholtz, Clara V. 193,586.
Eicholtz, Clara V. 194,055.
Eicholtz, Clara V. 194,247.
Wittke, Kurt H. 192,374.
Downing, Harold E., and T. H. Vaughn, to Gray Realty Corp. Combination carton and display box. 192,270, 2–20–62, Cl. D58—12.
Drackett Co., The: *See*—
Corsette, Douglas F. 193,365.
Harnage, William H. 193,037.
Dreier, Raymond C. Hacksaw handle. 193,540, 9–4–62, Cl. D93—4.
Dremel, Albert J. and R. E. to Dremel Mfg. Co. Shoe polishing machine. 192,347, 3–13–62, Cl. D9—2.
Dremel Mfg. Co.: *See*—
Dremel, Albert J. and R. E. 192,347.
Dremel, Robert E.: *See*—
Dremel, Albert J. and R. E. 192,347.

Dreyfuss, Henry, to Minneapolis-Honeywell Regulator Co. Space condition responsive instrument. 192,821, 5–15–62, Cl. D52—7.

Dreyfuss, Henry, to Philip Morris, Inc. Safety razor. 193,299, 7–31–62, Cl. D22—3.

Dreyfuss, Henry, R. H. Hose, and H. C. Illium, Jr., to Bell Telephone Laboratories, Inc. Integrated voice and data telecommunications desk stand. 192,117, 1–23–62, Cl. D26—14.

Dreyfuss, Henry, R. H. Hose, and H. C. Illium, Jr., to Bell Telephone Laboratories, Inc. Integrated voice and data telecommunications desk stand. 192,118, 1–23–62, Cl. D26—14.

Dreyfuss, Henry, R. A. Pendleton, and R. B. Lawrence, to Minneapolis-Honeywell Regulator Co. Tape drive unit or similar article. 193,004, 6–12–62, Cl. D26—5.

Dreyfuss, Henry, and R. H. Hose, to The Hoover Co. Clothes washing machine. 193,066, 6–19–62, Cl. D49—1.

Dreyfuss, Henry, and R. H. Hose, to The Hoover Co. Control panel for a clothes washing machine. 193,527, 9–4–62, Cl. D49—1.

Dreyfuss, Henry, and J. M. Conner, to Polaroid Corp. Camera front or similar article. 193,590, 9–11–62, Cl. D61—1.

Dreyfuss, Henry, W. F. H. Purcell, and J. M. Conner, to Deere & Co. Combined hood and grille for a tractor or the like. 193,838, 10–16–62, Cl. D14—3.

Driggs, Oscar N.: *See*—
Baldwin, Nelson L., and Driggs. 193,679.

Drugmand, Lester D., to Edwin L. Wiegand Co. Charcoal lighter. 192,587, 4–10–62, Cl. D81—10.

Dublin Industries, Inc.: *See*—
Turpen, Oliver S., Jr. 192,422.

Dubman, Jacob: *See*—
Harling, Otto K., and Dubman. 193,867.

Duckett, John W. Boat hook. 193,536, 9–4–62, Cl. D71—1.

Ducommun, Georges, to Baumgartner Freres S.A. Table-clock. 193,521, 9–4–62, Cl. D42—7.

Duke, Weldon G. Drinking glass froster. 193,593, 9–11–62, Cl. D67—3.

Dunan Brick Yards, Inc.: *See*—
Dunan, George V. R. 193,342.

Dunan, George V. R., to Dunan Brick Yards, Inc. Building wall. 193,342, 8–7–62, Cl. D18—2.

Dunham, Philip N. Air mattress or the like. 193,832, 10–16–62, Cl. D5—2.

Dunlap, William B., Jr.: *See*—
Wyman, Charles G., and Dunlap. 194,203.

Dunlop Tire and Rubber Corp.: *See*—
Jones, Frank B., and Holmes. 193,539.

Dunn, Charles. Sled. 194,270, 12–25–62, Cl. D34—15.

Du Pont de Nemours, E. I., and Co.: *See*—
Bunker, Henry L., Jr., and Powers. 193,463.
Ellefson, John R. 192,067.

Du Pree, Ernest L., to Schenley Industries, Inc. Decanter. 192,826, 5–15–62, Cl. D58—6.

Du Pree, Ernest L., to Schenley Industries, Inc. Decanter. 192,942, 5–29–62, Cl. D58—6.

Duquesne Brewing Co. of Pittsburg: *See*—
Friday, John A., Jr. 193,070.
Friday, John A., Jr. 193,589.

Durand, Paul. Photographic printer for cameras. 192,981, 6–5–62, Cl. D61—1.

Durfey, Floria M.: *See*—
Glascock, Kittie M. 192,695.

Duro-Test Corp.: *See*—
Swanson, Carl E. 192,636.

Dutil, George A., Jr.: *See*—
Michaud, Donald A. 193,647.

Dux Inc.: *See*—
Ohlsson, Folke E. H. 193,138.
Ohlsson, Folke E. H. 193,265.
Ohlsson, Folke E. H. 193,790.
Ohlsson, Folke E. H. 193,842.
Ohlsson, Folke E. H. 193,843.
Ohlsson, Folke E. H. 193,844.

Dyer, Richard C. Door pull. 192,787, 5–15–62, Cl. D10—8.

Dylla, Roy R. Refuse receptacle. 192,304, 2–27–62, Cl. D58—17.

Eames, Charles, to Herman Miller, Inc. Upholstered chair. 192,799, 5–15–62, Cl. D15—1.

Eames, Charles, to Herman Miller Inc. Furniture base. 193,339, 8–7–62, Cl. D15—1.

Eames, James O.: *See*—
Eames, James O. 3,040,845.

Eastman Kodak Co.: *See*—
Knowles, Frederick G. 192,105.
Lang, Vincent F. 192,155.
Offensend, Glen W., and Rosenburgh. 192,104.
Reynolds, Dean H. 192,760–69.

East Wisconsin Trustee Co. of Manitowoc: *See*—
Douglas, David. 193,523.

Ebauches S.A.: *See*—
Vogt, Paul. 192,382.

Ebbert, John H., and W. S. Schneider. Package for tablets. 193,811, 10–9–62, Cl. D58—2.

Ebbert, Thomas H. Soap dish. 193,607, 9–18–62, Cl. D4—8.

Ebstein, John W., to Federal Enameling & Stamping Co. Tea kettle. 192,257, 2–20–62, Cl. D44—25.

Ebstein, John W., to Federal Enameling & Stamping Co. Waste basket. 192,454, 3–20–62, Cl. D58—17.

Ebstein, John W., to Federal Enameling & Stamping Co. Combined canister and cover. 193,199, 7–10–62, Cl. D44—6.

Eckersberg, Robert A.: *See*—
Hvale, James L., and Eckersberg. 192,298.
Hvale, James L., and Eckersberg. 192,808.
Hvale, James L., and Eckersberg. 192,812.

Eckersberg, Robert A., to Ekco Products Co. Handle for kitchen tools and similar articles. 193,202, 7–10–62, Cl. D44—29.

Eckersberg, Robert A., and J. L. Hvale, to Ekco Products Co. Serving spoon or similar article. 192,228, 2–13–62, Cl. D44—29.

Eckersberg, Robert A., and J. L. Hvale, to Ekco Products Co. Serving spoon or similar article. 192,229, 2–13–62, Cl. D44—29.

Eckert, Arbel, and P. V. F. Kingswell. Coupling for conduits or the like. 193,826, 10–9–62, Cl. D91—3.

Edelman, Benjamin G., to United Metal Goods Mfg. Co., Inc. Ice container for household use. 192,711, 5–1–62, Cl. D67—4.

Edler, John L.: *See*—
Schlager, Joseph, and Edler. 192,212.

Egolf AG.: *See*—
Germann, Friedrich G. 193,960.

Ehrlich, Charles: *See*—
Koch, Samuel J., and Ehrlich. 193,715.

Eichelot, Clara V., to The Dow Chemical Co. Container for pulverulent material or the like. 192,334, 3–6–62, Cl. D58—8.

Eicholtz, Clara V., to The Dow Chemical Co. Food container or the like. 192,485, 3–27–62, Cl. D58—11.

Eicholtz, Clara V., to The Dow Chemical Co. Food container or the like. 192,943, 5–29–62, Cl. D58—25.

Eicholtz, Clara V., to The Dow Chemical Co. Jug or the like. 193,280, 7–24–62, Cl. D58—5.

Eicholtz, Clara V., to The Dow Chemical Co. Container for dairy products or the like. 193,584, 9–11–62, Cl. D58—18.

Eicholtz, Clara V., to The Dow Chemical Co. Container for dairy products or the like. 193,585, 9–11–62, Cl. D58—18.

Eicholtz, Clara V., to The Dow Chemical Co. Container for dairy products or the like. 193,586, 9–11–62, Cl. D58—18.

Eicholtz, Clara V., to The Dow Chemical Co. Dustpan. 194,055, 11–13–62, Cl. D44—18.

Eicholtz, Clara V., to The Dow Chemical Co. Container for dairy products or the like. 194,247, 12–18–62, Cl. D58—17.

Eidson, Dennis L., to Hills-McCanna Co. Pump. 192,235, 2–13–62, Cl. D65—1.

Ek, Stig O. A. Thermally insulated jug or the like. 194,164, 11–27–62, Cl. D58—5.

Ekco Products Co.: *See*—
Bond, James D., and Crenshaw. 193,149.
Crenshaw, David R. 192,866.
Crenshaw, David R. 192,963.
Eckersberg, Robert A. 193,202.
Eckersberg, Robert A., and Hvale. 192,228.
Eckersberg, Robert A., and Hvale. 192,229.
Hvale, James L., and Eckersberg. 192,298.
Hvale, James L., and Eckersberg. 192,808.
Hvale, James L., and Eckersberg. 192,812.
Hvale, James L., and Kennedy. 193,162.
La Branche, Harvey W. 192,959.
Latham, Richard S. 192,330.

Eksteins, Juris E.: *See*—
Blum, Heinz A., and Eksteins. 194,149.

Electric Storage Battery Co., The: *See*—
Hansen, John V., and Jacobsen. 192,478.
Hansen, John V., and Jacobsen. 192,532.
Rhoades, Nolan K., and Hansen. 192,300.

Electrogen Industries, Inc.: *See*—
Karp, Julian H. 193,139.

Electrolux, Aktiebolaget: *See*—
Andersson-Sason, Carl E. S. 192,770.

Electrolux Corp.: *See*—
Johanson, Ralph A. W. 192,160.
Johanson, Ralph A. W. 193,608.

Electro-Way Corp.: *See*—
Moore, Herbert C. 193,417.
Moore, Herbert C. 193,603.
Moore, Herbert C. 193,648.

Elkay Mfg. Co.: *See*—
Hauser, John W. 193,464.

Elkins, Vance V., to Charles E. Hires Co., a Division of Consolidated Foods Corp. Combined cooler and dispenser for liquids. 193,084, 6–26–62, Cl. D2—3.

Ellefson, John R., to E. I. du Pont de Nemours and Co. Plastic sheet material. 192,067, 1–9–62, Cl. D87—3.

Elrod, George E. Fish lure. 193,789, 10–9–62, Cl. D31—4.

Elsner, Hans, to Olympia Werke A.G. Perforating machine. 193,185, 7–10–62, Cl. D26—5.

Embo Casual Shoe Co.: *See*—
Bonyhady, Emil. 194,205.

Endrizzi, Gilbert D., to Consoweld Corp. Plastic sheet material. 192,779, 5–8–62, Cl. D87—3.

Engelmann, Albert C., to The International Silver Co. Fork or similar article of flatware. 192,446, 3–20–62, Cl. D54—12.

Engelmann, Albert C., to The International Silver Co. Fork or similar article of flatwear. 192,577, 4–10–62, Cl. D54—12.

Engelmann, James A., to Bras of Hollywood-West, Inc. Package, or similar article. 194,246, 12–18–62, Cl. D58—12.

Englander Co., Inc., The: *See*—
Pink, Chester A. 193,086.

Ensign, Robert H.: *See*—
Hopp, Philip, Ensign, and Cardozo. 193,236.
Enstrom, R. J., Corp.: *See*—
Nutting, David J. 192,487.
Enterprise Aluminum Co., The: *See*—
Krause, Richard F. 192,177.
Enterprise Mfg. Co., The: *See*—
Sarah, Thomas F. 193,489.
Entron, Inc.: *See*—
Blum, Heinz A., and Eksteins. 194,149.
Ephraim, Charles H.: *See*—
Wiele, Henry J. 193,093.
Epstein, Stanley H., to Twin Cantors Silver Kettle, Inc. Warming stand. 192,900, 5–22–62, Cl. D81—10.
Equipto Electronic Corp.: *See*—
Fay, Lawrence J. 193,134.
Erickson, Fred E. Combined coin operated vending machine and paper napkin holder. 194,283, 12–25–62, Cl. D52—3.
Ernest, Robert O.: *See*—
Jepson, Ivar, and Ernest, 194,201.
Ernest, Robert O., and R. E. Cornwell, to Sunbeam Corp. Hedge trimmer. 192,370, 3–13–62, Cl. D40—1.
Ernest, Robert O., and J. R. Peterson, to Sunbeam Corp. Food mixer or the like. 193,944, 10–30–62, Cl. D44—1.
Ernst, Charles F. Combined finger, wrist and forearm exerciser. 192,927, 5–29–62, Cl. D34—5.
Erteszek, Olga. Slip-type undergarment. 194,176, 12–4–62, Cl. D3—16.
Esajian, Richard N. Wheel cover. 193,841, 10–16–62, Cl. D14—30.
Ettlinger, Ralph, Jr. Dishwashing tray for cups. 193,108, 6–26–62, Cl. D49—1.
Etude et Realisation d'Omnis Precision "E.R.O.P." C. L. Godar: *See*—
Godar, Charles L. 193,519.
Evans, Frank W., to General Plastronics, Inc. Combination beer glass and cocktail shaker. 192,604, 4–17–62, Cl. D36—8.
Evans Products Co.: *See*—
McLeod, Charles A. 192,339.
Evans Rule Co.: *See*—
Goldman, David W. 193,678.
Evans, Trevor G., to E. R. Holloway, Ltd. Dispensing closure or similar article. 194,291, 12–25–62, Cl. D58—26.
Ewald, Ronald F., to Rowe Plastics & Die Casting Co. Holder for flowers and candles. 192,741, 5–8–62, Cl. D35—3.
Excelsior Hardware Co., The: *See*—
Humphries, John B. 193,806.
Expandex Corp.: *See*—
Jackson, Thomas S. 193,912.
Eytel, Robert H., and R. S. Massarella, to Sperry Rand Corp. Computer console. 192,918, 5–29–62, Cl. D26—5.
Faber-Castell, A. W.: *See*—
Fuchs, Günter. 192,984.
Fabiano, Paul E. Combined strainer and grater. 192,644, 4–24–62, Cl. D44—29.
Fabmagic, Inc.: *See*—
Kelnhofer, John J. 193,264.
Fabricon Products: *See*—
Brown, William L., and Fitzgerald. 192,499.
Fahey, James H., Jr., to Joslyn Mfg. and Supply Co. Luminaire. 192,260, 2–20–62, Cl. D48—31.
Fairchild Engine and Airplane Corp.: *See*—
Stoner, Eugene M. 192,032.
Fairfield Optical Co.: *See*—
Knowles, Beryl B. 193,029.
Fairhope Fabrics, Inc.: *See*—
Guillemette, Roger P. 192,973.
Faraday, Inc.: *See*—
Waltman, Charles T. 193,596.
Farber, Alfred. Skewer. 192,338, 3–6–62, Cl. D81—10.
Farber, Edward R., to Roloc Inc. Slide comparison viewer. 193,411, 8–14–62, Cl. D61—1.
Farcy, Paul, and S. Sayen, to Commissariat a l'Energie Atomique. Glovebox for handling objects in radio-active atmospheres. 192,354, 3–13–62, Cl. D16—2.
Farmer, Guy F. Miniature washing machine. 192,047, 1–9–62, Cl. D49—1.
Farrows, Inc.: *See*—
Parrish, Archie F., Houze, and Inge. 193,165.
Faultless Caster Corp.: *See*—
Skupas, John A., and Stollman. 193,466.
Faus, William F., to Shaver Specialty Co. Combined menu holder and condiment dispenser fence. 193,945, 10–30–62, Cl. D44—29.
Fay, Lawrence J., to Equipto Electronic Corp. Door handle or similar article. 193,134, 7–3–62, Cl. D10—8.
Federal Enameling & Stamping Co.: *See*—
Ebstein, John W. 192,257.
Ebstein, John W. 192,454.
Ebstein, John W. 193,199.
Federal Pacific Electric Co.: *See*—
Dabney, David H. 192,322.
Fees, Richard A., to Quaker Lace Co. Tablecloth. 192,593, 4–10–62, Cl. D92—26.
Fees, Richard A., to Quaker Lace Co. Tablecloth. 194,016, 11–6–62, Cl. D92—26.
Fees, Richard A., to Quaker Lace Co. Tablecloth. 194,256, 12–18–62, Cl. D92—26.
Fefar, Montgomery: *See*—
Sundberg, Carl W., and Fefar. 192,468.
Feigenson, Inc.: *See*—
Waser, Felix V. 193,032.
Waser, Felix V. 193,033.
Fender, Clarence L. Amplifier and loudspeaker unit for electrical musical instruments. 192,859, 5–22–62, Cl. D26—14.
Fen-Mart, Inc.: *See*—
Dolgin, Elliot F. 192,343.
Ferar, Montgomery: *See*—
Langhjelm, Hendrik, and Ferar. 192,747.
Sundberg, Carl W., and Ferar. 192,008.
Sundberg, Carl W., and Ferar. 192,809.
Sundberg, Carl W., and Ferar. 192,910.
Sundberg, Carl W., and Ferar. 193,340.
Sundberg, Carl W., and Ferar. 193,916.
Sundberg, Carl W., and Ferar. 193,917.
Ferar, Montgomery, to Whirlpool Corp. Control panel for a washing machine or the like. 192,261, 2–20–62, Cl. D49—1.
Ferar, Montgomery, to Whirlpool Corp. Nozzle for a vacuum cleaner. 193,834, 10–16–62, Cl. D9—2.
Ferar, Montgomery, to Whirlpool Corp. Control panel for a washing machine or the like. 194,121, 11–20–62, Cl. D49—1.
Ferar, Montgomery, and C. Russell, to Whirlpool Corp. Refrigerator handle. 193,039, 6–12–62, Cl. D67—3.
Ferguson, Howard, to Bulova Watch Co., Inc. Display case for a watch or similar article. 192,305, 2–27–62, Cl. D58—12.7.
Ferrari, William A., O. M. Anderson, and R. L. Smith. Combined refuse storage and transfer building or the like. 193,973, 11–6–62, Cl. D13—1.
Ferraro, Joseph G., to Colgate-Palmolive Co. Bottle or similar article. 193,637, 9–18–62, Cl. D58—8.
Ferris, David C.: *See*—
Weigel, Raymond A., and Ferris. 192,912.
Fetty, Harold D., to General Time Corp. Clock. 192,524, 4–3–62, Cl. D42—7.
Fidel, Hyman, to Modecraft Co., Inc. Shampoo chair. 193,-183, 7–10–62, Cl. D15—3.
Fielding, Ivan O.: *See*—
McClellan, Stephen A., and Fieldgate. 192,444.
Fillmore, William E.: *See*—
Busch, Frank B., Fillmore, and Miller. 192,944.
Finke, Helmut: *See*—
Weiss, Richard, Heuser, and Finke. 194,248.
Finken, John A.: *See*—
Wiele, Henry J. 193,093.
Firearm Accessories, Inc.: *See*—
Pachmayr, Frank A., and Huskey. 192,922.
Pachmayr, Frank A., and Huskey. 192,923.
Pachmayr, Frank A., and Huskey. 192,924.
Firych, Joseph: *See*—
Menary, Robert F., and Firych. 193,283.
Fischer, Albert W., to Consolidated Electrodynamics Corp. Recording oscillograph. 193,895, 10–23–62, Cl. D26—14.
Fischetti, Charles: *See*—
Milkie, George. 193,272.
Fisher, Charlene. Bowl. 193,104, 6–26–62, Cl. D44—15.
Fisher, Eric, to Wallace China Co., Ltd. Plate or similar article. 192,527, 4–3–62, Cl. D44—15.
Fisher, Eric, to Wallace China Co., Ltd. Plate or similar article. 192,873, 5–22–62, Cl. D44—15.
Fisher, Eric, to Wallace China Co., Ltd. Plate or similar article. 192,874, 5–22–62, Cl. D44—15.
Fisher-Price Toys, Inc.: *See*—
Doe, Walter P. 192,930.
Fitzgerald, J. S., Inc.: *See*—
Pisano, Salvatore. 192,599.
Fitzgerald, Jackie E.: *See*—
Brown, William L., and Fitzgerald. 192,499.
Fitzsimonds, George H., to General Electric Co. Toothbrush power handle or similar article. 193,972, 11–6–62, Cl. D9—2.
Flambeau Plastics Corp.: *See*—
Hulterstrum, Harold D. 192,417.
Flannery and Associates, Inc.: *See*—
Flannery, John R., Jr. 193,610.
Flannery, John R., Jr., to Flannery and Associates, Inc. Dispensing island shelter unit. 193,610, 9–18–62, Cl. D13—1.
Fleming, Jack F., to Sterling Plastics Co. Combined kaleidoscope and pencil case. 192,460, 3–20–62, Cl. D74—21.
Fleming, Jack F., to Sterling Plastics Co. Combined pencil case and spelling device. 192,983, 6–5–62, Cl. D74—21.
Fleming, Jack F., to Sterling Plastics Co. Pencil sharpener. 193,457, 8–21–62, Cl. D74—21.
Fletcher, Elwood J.: *See*—
Bartlett, Angelo E., and Fletcher. 194,104.
Flexible Plastics Corp.: *See*—
Sarafan, Robert E. 192,655.
Flock, Arthur E., Jr., to Lockheed Aircraft Corp. Airplane. 193,123, 6–26–62, Cl. D71—1.
Florence, Leonard. Toy Donkey bank. 193,402, 8–14–62, Cl. D34—11.
Florence, Leonard. Toy clown bank. 193,793, 10–9–62, Cl. D34—11.
Florian, Gordon, to Sunbeam Corp. Clock. 192,523, 4–3–62, Cl. D42—7.
Florian, Gordon, to Sunbeam Corp. Clock. 192,640, 4–24–62, Cl. D42—7.

Florian, Gordon, to Sunbeam Corp. Clock. 193,569, 9–11–62, Cl. D42—7.
Florian, Gordon, to Sunbeam Corp. Clock. 194,001, 11–6–62, Cl. D42—7.
Florian, Gordon W. : *See*—
Crewe, Stanley C., and Florian. 193,700.
Flowers, Vernon S. Combined grave ledger and marker. 192,773, 5–8–62, Cl. D79—2.
Fofrich, George. Fish lure. 192,249, 2–20–62, Cl. D31—4.
Fogelgren, John E. Aquaplane. 193,042, 6–12–62, Cl. D71—1.
Foley Mfg. Co. : *See*—
Page, Richard I. 194,113.
Foote, Francis S., Jr. : *See*—
Ribbens, Jacob J., Leete, and Foote. 192,085.
Ford Motor Co. : *See*—
Aldred, John L., Jr. 192,837.
Bordinat, Eugene, Jr. 192,351.
Bordinat, Eugene, Jr. 192,416.
Bordinat, Eugene, Jr. 192,479.
Bordinat, Eugene, Jr. 192,533.
Bordinat, Eugene, Jr. 193,207.
Bordinat, Eugene, Jr. 193,333.
Bordinat, Eugene, Jr. 193,655.
Bordinat, Eugene, Jr. 193,656.
Bordinat, Eugene, Jr. 193,707.
Bordinat, Eugene, Jr. 193,803.
Bordinat, Eugene, Jr. 193,804.
Bordinat, Eugene, Jr. 193,976.
Bord'nat, Eugene, Jr. 194,120.
Bordinat, Eugene, Jr. 194,208.
Walker, George W. 192,214.
Walker, George W. 192,349.
Walker, George W. 192,728.
Walker, George W. 192,852.
Fornell, Bertil S., and D. G. Lowe. Sorting machine or similar article. 193,225, 7–10–62, Cl. D64—11.
Forseth, Arthur E. Water sled or similar article. 192,832, 5–15–62, Cl. D71—1.
Forseth, Arthur E. Water sled or similar article. 192,982, 6–5–62, Cl. D71—1.
Forsman, Fred O. Soap dish. 193,970, 11–6–62, Cl. D4—3.
Forsman, Fred O., and G. H. McCutcheon, to Westland Plastics, Inc. Step stool. 192,218, 2–13–62, Cl. D15—8.
Forsman, Russell J., to Westland Plastics, Inc. Pet feeder. 192,412, 3–20–62, Cl. D12—2.
"42" Products Ltd., Inc. : *See*—
Klein, Paul S. 193,254.
Forward Corp. : *See*—
Bradbury, James W. 193,126.
Foss, George J., and D. D. Acton, to Anchor Hocking Glass Corp. Closure or similar article. 192,757, 5–8–62, Cl. D58—26.
Foss, George J., and D. D. Acton, to Anchor Hocking Glass Corp. Closure or similar article. 192,945, 5–29–62, Cl. D58—26.
Foss, George J., and D. D. Acton, to Anchor Hocking Glass Corp. Closure cap. 193,363, 8–7–62, Cl. D58—26.
Foss, George J., and D. D. Acton, to Anchor Hocking Glass Corp. Closure cap or similar article. 193,742, 10–2–62, Cl. D58—26.
Foster, Alan. Dry cleaning unit. 193,488, 8–28–62, Cl. D49—1.
Foster, Elsa. Hand puppet. 192,251, 2–20–62, Cl. D34—2.
Foster Grant Co., Inc. : *See*—
Matson, Torsti O. 194,073.
Petitto, Albert C. 192,266.
Petitto, Albert C. 192,883.
Petitto, Albert C. 192,884.
Petitto, Albert C. 192,885.
Petitto, Albert C. 193,028.
Petitto, Albert C. 193,251.
Petitto, Albert C. 193,872.
Fowler, John : *See*—
Rettke, Julius L. 194,174.
Fountain Hill Mills : *See*—
Tiso, Frank. 192,135.
Tiso, Frank. 192,136.
Fox, William P., to Design Development Corp. Support for a hearth broiler. 192,588, 4–10–62, Cl. D81—10.
Frager, Glenn E., to Krause Corp., Inc. Field cultivator. 192,521, 4–3–62, Cl. D39—1.
Franchett's Kruellers, Inc. : *See*—
Parrambo, Francis E. 193,170.
Franck, Kurt, to Holophane Co., Inc. Luminaire refractor. 192,877, 5–22–62, Cl. D48—16.
Frank, George M. : *See*—
Yoshizumi, Kenji, and Frank. 194,245.
Frank & Heidecke, Fabrik Photographischer Prazisions-Apparate : *See*—
Weiss, Richard, Heuser, and Finke. 194,248.
Frankel, Donald P., to La Mere Industries, Inc. Incinerating toilet. 193,325, 8–7–62, Cl. D4—5.
Franklin, Burton P., to H. K. Porter Co. Garden tool handle. 193,863, 10–16–62, Cl. D35—2.
Franklin, Burton P., and J. H. Parcher, to H. K. Porter Co., (Delaware). Hand saw. 192,068, 1–9–62, Cl. D93—4.
Franklin, Burton P., and J. H. Parcher, to H. K. Porter Co., (Delaware). Manual saw. 192,069, 1–9–62, Cl. D93—4.
Franklin, Le Roy H. Transformer. 192,506, 4–3–62, Cl. D26—15.
Frankonia Products Inc. : *See*—
Strauss, Walter L. 193,398.
Fredrick, William H., ½ to N. Gilbert. Food transporting basket. 193,215, 7–10–62, Cl. D58—4.
French, Howard V. : *See*—
Hahn, Richard H., and French. 193,323.
French, Robert L., to The Goodyear Tire & Rubber Co. Tire. 193,379, 8–7–62, Cl. D90—20.
Frenkel, Max. Table mat or similar article. 194,230, 12–11–62, Cl. D92—26.
Friday, John A., Jr., to Duquesne Brewing Co. of Pittsburg. Bottle case or similar article. 193,070, 6–19–62, Cl. D58—12.6.
Friday, John A., Jr., to Duquesne Brewing Co. of Pittsburgh. Bottle case or similar article. 193,589, 9–11–62, Cl. D58—26.
Fricden, Inc. : *See*—
Stoltz, Elmer J. 193,429.
Stoltz, Elmer J. 193,430.
Friedman, Samuel, to Re-Ly-On Metal Products, Inc. Shoe-shine box. 192,911, 5–29–62, Cl. D9—2.
Frisch, Noel J. Fair lead or the like. 193,579, 9–11–62, Cl. D54—11.
Fristoe, Donna M. Rug or similar article. 193,291, 7–24–62, Cl. D92—21.
Frost Engineering Development Corp. : *See*—
Frost, Richard H. 193,704.
Frost, Richard H., to Frost Engineering Development Corp. Window well cover. 193,704, 10–2–62, Cl. D13—1.
Fry, Carl L., to Wald Industries, Inc. Tank trailer for a marking machine for highways and the like. 192,727, 5–8–62, Cl. D14—3.
Fuchs, Günter, to A. W. Faber-Castell. Clutch pencil. 192,984, 6–5–62, Cl. D74—24.
Fuerst, Carl : *See*—
Gleitsman, Harold, and Fuerst. 193,669.
Fuerst, Edmond C., Sr. : *See*—
Batie, Glenn L., Fuerst, and Speed. 193,336.
Fuller Brush Co., The : *See*—
De Kolb, Eric. 192,388.
De Kolb, Eric. 192,389.
De Kolb, Eric. 192,390.
De Kolb, Eric. 192,391.
Fuller, Frank L., to Beckman Instruments, Inc. Centrifuge. 193,341, 8–7–62, Cl. 16—2.
Fulton, Nell. Serving tray. 192,872, 5–22–62, Cl. D44—10.
Fulton, Theodore R. Drill centering gauge. 192,302, 2–27–62, Cl. D52—6.
Fun in the Sun of Florida. Inc. : *See*—
Hansen, Hubert H. 192,254.
Hansen, Hubert H. 192,255.
Funk, Roger L. : *See*—
Rawson, Paul O., Jr., and Funk. 192,571.
Rawson, Paul O., Jr., and Funk. 193,259.
Furnas, Thomas C., Jr., to Picker X-Ray Corp. Waite Mfg. Division, Inc. Diffractometer. 192,616, 4–17–62, Cl. D57—1.
Gabriel Frank Associates, Inc. : *See*—
Iannucci, Steve. 193,319.
Gadget-of-the-Month Club, Inc. : *See*—
Joseph, Catherine. 194,024.
Gaeke, Carl W. : *See*—
Koons, Paul M., and Gaeke. 194,292.
Gallup, Robert L. : *See*—
Miller, Earl E., Krotzer, and Gallup. 192,430.
Miller, Earl E., Krotzer, and Gallup. 193,515.
Gamewell Co., The : *See*—
Ayres, Samuel, Jr. 193,959.
Gantenbrink, Heinrich, to Prescolite Mfg. Corp. Lighting fixture diffuser. 193,631, 9–18–62, Cl. D48—16.
Gantz, Carroll M., to The Hoover Co. Suction cleaner. 194,025, 11–13–62, Cl. D9—2.
Garcia, Irene. Combined table, flower stand, and lamp. 193,347, 8–7–62, Cl. D33—14.
Garcy Corp. : *See*—
Zurawski, Edward F. 193,022.
Garden Centers, Inc. : *See*—
McCoy, Frank T., Jr. 194,206.
Garnett, Willard R. : *See*—
Meyer, Carl X., and Garnett. 192,876.
Garnick, Philip, W. H. Benner, and L. G. Wynne, to Sigma Instruments, Inc. Photoelectric control unit. 192,358, 3–13–62, Cl. D26—1.
Garrett Corp., The : *See*—
Northrop, John K., and Wilson. 193,595.
Garrison, Eugene D., to Baldwin Industries, Inc. Squeeze bottle. 193,739, 10–2–62, Cl. D58—6.
Garske, Joseph L. : *See*—
Churchman, Fred L., and Garske. 193,414.
Garth, Pauline E. Coffee shop counter unit. 192,490, 3–27–62, Cl. D80—2.
Gartzman, Herman. Cup. 193,154, 7–3–62, Cl. D44—9.
Garvey, Leo J. Bottle. 192,978, 6–5–62, Cl. D58—5.
Gatewood, Sidney E. Hand cart for garbage cans and similar articles. 192,557, 4–10–62, Cl. D14—3.
Gay, Robert V., to Reynolds Metals Co. Handrailing unit or the like. 193,888, 10–23–62, Cl. D13—7.
Gebruder Merten : *See*—
Heling, Paul. 192,120.
Gehrie, Charles S., to Sardis Luggage Co. Combined luggage handle, handle studs and locks. 193,234, 7–10–62, Cl. D87—2.
Gehrie, Charles S., to Presto Lock Co. Luggage lock or similar article. 193,247, 7–17–62, Cl. D50—7.

Gehrie, Charles S., to Presto Lock Co. Luggage handle stud or similar article. 193,825, 10–9–62, Cl. D87—2.
Gehrie, Charles S., to Presto Lock Co. Luggage lock or similar article. 193,905, 10–23–62, Cl. D50—7.
Gehrie, Charles S., to Skyway Luggage Co. Buckle lock for luggage or the like. 194,160, 11–27–62, Cl. D50—7.
Gehrie, Charles S., to Presto Lock Co. Luggage lock or similar article. 194,282, 12–25–62, Cl. D50—7.
Geisler, Ronald A. Wheel. 193,137, 7–3–62, Cl. D14—30.
Gelman, Harry A., to Comfort Lines, Inc. High chair. 192,731, 5–8–62, Cl. D15—1.
General Aniline & Film Corp.: *See*—
Takats, Zoltan. 194,077.
Takats, Zoltan. 194,078.
General Concrete Products Co., Inc.: *See*—
Bilman, Jozef. 192,219.
General Controls Co.: *See*—
Briggs, Stephen H. 193,906.
Shimano, Moo. 192,152.
General Development Corp.: *See*—
Wilcox, Donald O. 193,130.
General Electric Co.: *See*—
Aldrich, Robert B., and Russo. 194,167.
Bach, Carl G., Jr., and Shelton. 193,067.
Bevilacqua, Ernest M., Kostanecki, and Noyes. 193,005.
Bluhm, Henry H. 193,991.
Bluhm, Henry H. 193,992.
Brokaw, Robert W. 193,301.
Daher, Theodore G. 193,173.
Fitzsimonds, George H. 193,972.
Grossman, Charles F. 193,783.
Grunwald, Frank M. 193,893.
Kerr, Roger B. 193,732.
Larson, Orville W. 194,271.
Linger, Harrison K. 192,178.
Munz, Robert E., and Collins. 193,228.
Noble, William H., and Shelton. 193,082.
Noyes, Eliot. 193,852.
Noyes, Eliot. 193,853.
Peterson, Kail R. 193,345.
Pettengill, Myron F. 193,407.
Rawson, Paul O., Jr., and Funk. 193,259.
Rawson, Paul O., Jr., and Grunwald. 192,434.
Sanderson, Leon C., and Vogt. 194,211.
Vogt, Noland E. 193,711.
Vogt, Noland E., and Sanderson. 193,661.
General Electric Co. Ltd., The: *See*—
Judson, Albert E. 192,637.
General Equipment Mfg. & Sales, Inc.: *See*—
Wildman, Robert E. 192,846.
General Fire Extinguisher Corp.: *See*—
Huthsing, Charles K., Jr. 192,914.
General Hardware Mfg. Co., Inc.: *See*—
Ayer, Ermon F. 192,447.
General Metalcraft, Inc.: *See*—
Keal, John J. 192,625.
General Motors Corp.: *See*—
Bohnstedt, Duane L. 193,390.
Deesen, Paul H. 192,418.
Holls, David R. 192,797.
Holls, David R. 192,798.
Mitchell, William L. 193,550.
North, David R. 192,854.
Rybicki, Irvin W. 193,334.
Rybicki, Irvin W. 193,335.
Rybicki, Irvin W., and Wilen. 192,242.
Shinoda, Lawrence. 194,029.
Smith, Bernard N. 194,183.
General Plastics Corp. of America: *See*—
Jacobsen, Walter H. 194,125.
General Plastronics, Inc.: *See*—
Evans, Frank W. 192,604.
General Telephone Co. of California: *See*—
Kraepelien, Hans Y. 192,806.
General Time Corp.: *See*—
Danz, Ellworth R. 193,675.
Fetty, Harold D. 192,524.
Genin, Robert I., and L. S. Wirch, to Child Guidance Toys, Inc. Toy railroad turntable. 192,368, 3–13–62, Cl. D34—15.
Genin, Robert I., and L. S. Wirch, to Child Guidance Toys, Inc. Toy railroad roundhouse. 192,518, 4–3–62, Cl. D34—15.
Genin, Robert I. and L. S. Wirch, to Child Guidance Toys Inc. Toy railroad drawbridge. 194,048, 11–13–62, Cl. D34—15.
Gerber, William C. Radiator filling can or similar article. 193,120, 6–26–62, Cl. D58—17.
Gerchow, Wilbur R., to The Sidney Machine Tool Co. Lathe bed. 192,263, 2–20–62, Cl. D54—6.
Germann, Friedrich G., to Egolf AG. Road markers. 193,960, 10–30–62, Cl. D72—1.
Gershen, Irvin J., to Johnson & Johnson. Dental floss dispenser. 192,007, 1–2–62, Cl. D24—1.
Gettinger, Lillian, to André Fantasies, Inc. Cap. 192,463, 3–27–62, Cl. D3—13.
Getz, William, Corp., The: *See*—
Butler, Jacob C. 193,428.
Gibeault, Robert N. Finger ring. 193,020, 6–12–62, Cl. D45—10.
Gibeault, Robert N. Finger ring. 193,021, 6–12–62, Cl. D45—10.
Gibson, Howard B., to The Thomas & Betts Co. Parallel compression tap. 193,849, 10–16–62, Cl. D26—1.
Gier, Richard W., and H. Weaver, Jr. Outdoor grill. 194,301, 12–25–62, Cl. D81—10.
Gilbert, A. C., Co., The: *See*—
Preble, Harry, Jr. 192,824.
Preble, Harry, Jr. 193,214.
Gilbert, Nathan: *See*—
Fredrick, William H. 193,215.
Gill, Donald W., to The Frank F. Taylor Co. Back adjustment plate for a walker-stroller. 193,475, 8–28–62, Cl. D14—14.
Gillette Co., The: *See*—
Muscatiello, Ralph A. 192,656.
Nigro, Louis V. 193,778.
Gillmore, Kenneth B.: *See*—
Douglas, Leon L., and Gillmore. 193,074.
Gillmore, Kenneth B., and R. B. Shannon, to Boeing Airplane Co. Vertical take-off airplane. 193,255, 7–17–62, Cl. D71—1.
Gillott, Joseph, & Sons Ltd.: *See*—
Carter, Ronald D. 192,627.
Gilman, Logan D., to Theratron Corp. Battery charger. 192,565, 4–10–62, Cl. D26—15.
Gilman, Logan D., to Theratron Corp. Electronic pulse generator for human body therapy. 193,964, 10–30–62, Cl. D87—1.
Gilmore, Edward R., to Arkla Industries Inc. Gas meter housing. 192,534, 4–3–62, Cl. D52—6.
Gilmour, Robert A. Hose nozzle. 194,014, 11–6–62, Cl. D91—1.
Gilson Bros. Co.: *See*—
Davies, John W. 193,706.
Hotz, Kenneth A., and Davies. 193,274.
Hotz, Kenneth A., and Davies. 193,998.
Stevens, Clifford B. and D. B. 193,472.
Gingras, Marcel, to Dominion Corset Co. Brassiere. 193,987, 11–6–62, Cl. D20—4.
Giuliano, Joseph J.: *See*—
Bales, David W., and Giuliano. 193,014.
Giunta, Anthony P. Noodle cutting machine. 192,704, 5–1–62, Cl. D55—1.
Gjertson, Roy, to Space Technology Laboratories, Inc. High speed camera. 194,249, 12–18–62, Cl. D61—1.
Gladding McBean & Co.: *See*—
James, George T. 193,752.
Gladson, Curtis L.: *See*—
Neil, Hugh G., and Gladson. 193,935.
Gladwin Plastics, Inc.: *See*—
Barron, William S. 192,156.
Chambers, Ralph F. 192,669.
Chambers, Ralph F. 192,670.
Glar-Ban Corp.: *See*—
Malesky, Edward F. 194,236.
Glascock, Kittie M., 30% to F. M. Durfey. Christmas boot. 192,695, 5–1–62, Cl. D47—7.
Glassco, Donald E. G.: *See*—
Sterges, Alfred D., and Glassco. 192,268.
Glastal, Benjamin. Mask. 192,904, 5–22–62, Cl. D86—10.
Glawe Mfg. Co.: *See*—
Schaefer, Leo V. 193,967.
Gleitsman, Harold, and C. Fuerst, to Gleitsman's, Inc. Combined valet stand and seat. 193,669, 9–25–62, Cl. D33—3.
Gleitsman's, Inc.: *See*—
Gleitsman, Harold, and Fuerst. 193,669.
Globe Rubber Products Corp.: *See*—
Schwartz, Bernard. 193,048.
Goda, George: *See*—
Asnes, Marvin A., and Goda. 193,981.
Goda, George, to Clay-Adams, Inc. Stop watch actuating device. 194,052, 11–13–62, Cl. D42—8.
Godar, Charles L., to Etude et Realisation d'Omnis Precision "E.R.O.P." C. L. Godar. Grinding machine. 193,519, 9–4–62, Cl. D37—1.
Godley, William P., to Minneapolis-Honeywell Regulator Co. Instrument case for a chart recorder. 193,530, 9–4–62, Cl. 352—6.
Goetz, Daniel A., ½ to Stylette Plastics, Inc., and ½ to The Wooster Brush Co. Combined paint tray and paint brush holder or similar article. 193,382, 8–14–62, Cl. D9—2.
Gokey, Joseph G. Traffic marker for highways or the like. 192,950, 5–29–62, Cl. D72—1.
Goldberg, Ben. Tow bar hitch for automobiles. 192,998, 6–12–62, Cl. D14—6.
Goldberg, Morris M. Garden fence or similar article. 193,059, 6–19–62, Cl. D28—1.
Goldberger, Paul. Lappet woven textile fabric. 192,990, 6–5–62, Cl. D92—1.
Goldberger, Paul. Lappet woven textile fabric. 192,991, 6–5–62, Cl. D92—1.
Golden, Philip, to S. Blickman, Inc. Tray slide. 192,164, 2–6–62, Cl. D14—3.
Golden, Philip, to S. Blickman, Inc. Cafeteria service cart for trays and silverware. 192,318, 3–6–62, Cl. D14—3.
Golden, Philip, to S. Blickman, Inc. Food dispensing table. 192,995, 6–12–62, Cl. D14—3.
Golden, Philip, to S. Blickman, Inc. Food conveyor belt unit. 193,551, 9–11–62, Cl. D14—3.
Golden, Philip, to S. Blickman Inc. Wheeled hot coffee dispenser. 193,836, 10–16–62, Cl. D2—3.
Golden, Philip, to S. Blickman, Inc. Refrigerated cabinet for dispensing milk cartons or the like. 194,027, 11–13–62, Cl. D14—3.
Golden, Samuel J. Comb. 192,461, 3–20–62, Cl. D86—8.

Golden Glow Vending Co., Inc.: *See*—
Reach, Walter R. 194,085.
Reach, Walter R. 194,086.
Goldman, David W., to Evans Rule Co. Carrier for coiled ruler. 193,678, 9–25–62, Cl. D52—1.
Goldman, Lillian: *See*—
Goldman, Robert and L. 192,040.
Goldman, Robert and L. 193,155.
Goldman, Robert and L. 193,241.
Goldman, Robert and L. 193,433.
Goldman, Robert and L. 193,670.
Goldman, Robert, and L. 193,845.
Goldman, Robert, and L. 194,267.
Goldman, Percy. Glove dryer. 193,408, 8–14–62, Cl. D49—1.
Goldman, Robert and L., to Lili, Inc. Night light. 192,040, 1–9–62, Cl. D48—20.
Goldman, Robert and L., to Lili, Inc. Night light. 193,155, 7–3–62, Cl. D48—20.
Goldman, Robert and L., to Lili, Inc. Convertible step stool. 193,241, 7–17–62, Cl. D15—1.
Goldman, Robert and L., to Lili, Inc. Costumer. 193,433, 8–21–62, Cl. D33—8.
Goldman, Robert and L., to Lili, Inc. Costumer. 193,670, 9–25–62, Cl. D33—8.
Goldman, Robert, and L., to Lili, Inc. Convertible step stool. 193,845, 10–16–62, Cl. D15—1.
Goldman, Robert, and L., to Lili, Inc. Costumer. 194,267, 12–25–62, Cl. D33—8.
Goldsmith, William M.: *See*—
Anderson, Douglas W., Goldsmith, Hester, and Ortega. 194,071.
Goldstein, Arthur: *See*—
Sobel, Theodore, and Goldstein. 193,749.
Goldstein, Arthur. Girdle. 193,985, 11–6–62, Cl. D20—2.
Goldstein, Arthur, and T. Sobel, to Butler Industries, Inc. Display stand for clothing or like articles. 193,748, 10–2–62, Cl. D80—10.
Goldstein, Jack, and M. Q. Wheeler, to The Coca-Cola Co. Bottle. 193,638, 9–18–62, Cl. D58—8.
Gomi, Takesi, to Yokogawa Electric Works, Ltd. Panel electronics meter for switchboards or the like. 193,680, 9–25–62, Cl. D52—6.
Goodman, Abraham, to H. Goodman & Sons, Inc. Hair retainer comb. 194,225, 12–11–62, Cl. D86—10.
Goodman, H., & Sons, Inc.: *See*—
Goodman, Abraham. 194,225.
Goodman, Howard. Chimney shade for electrical lamps. 193,573, 9–11–62, Cl. D48—15.
Goodman, Leonard. Drinking cup. 192,435, 3–20–62, Cl. D44—9.
Goodrich, B. F., Co., The: *See*—
Miller, Robert R. 193,129.
Rowland, Donald G., Pannone, and Conway. 193,050.
Schladermundt, Peter, and Wark. 194,074.
Goodson, Jamie C. Base for a memorandum pad. 194,007, 11–6–62, Cl. D74—1.
Goodson, William M. Devotional desk. 193,303, 7–31–62, Cl. D29—23.
Goodyear Tire & Rubber Co., The: *See*—
French, Robert L. 193,379.
Go-Power Corp.: *See*—
Walsh, Frank T. 194,099.
Gordon, James. Edible serving spoon. 193,541, 9–11–62, Cl. D8—1.
Gordon, James. Edible serving spoon. 193,542, 9–11–62, Cl. D8—1.
Gordon, James. Edible serving spoon. 193,543, 9–11–62, Cl. D8—1.
Gordon, Philip J. Restaurant building. 194,096, 11–20–62, Cl. D13—1.
Gore, Fred M., and A. J. Koller, to The Cuffman Co., Inc. Reflector for lighting fixtures. 193,574, 9–11–62, Cl. D48—16.
Gorham Corp.: *See*—
Tarleton, Howard A. 192,933.
Gorman, Richard G., and R. E. Marsh. Water craft. 193,077, 6–19–62, Cl. D71—1.
Gory, Frank A., to Intercoastal Inc. Concrete tile. 193,983, 11–6–62, Cl. D18—2.
Gory, Frank A., to Intercoastal Inc. Concrete tile. 193,984, 11–6–62, Cl. D18—2.
Gotthelf, Harry: *See*—
Tiso, Frank. 192,135.
Tiso, Frank. 192,136.
Gottsegen, Marten. Compartmented tray or the like. 194,155, 11–27–62. Cl. D44—10.
Goudy, Donald B. Combined display and oil draining cabinet. 193,946, 10–30–62, Cl. D52—2.
Grabau, Earl J. Toy gun. 193,729, 10–2–62, Cl. D34—15.
Graflex, Inc.: *See*—
Hartjen, Raymond H. 193,480.
Graham, James D., to Hamilton Mfg. Co. Laboratory table. 194,033, 11–13–62. Cl. D16—2.
Graham, Robert L.: *See*—
Mullinix, Lloyd M., and Graham. 194,093.
Graham, William J. Portable washboard. 193,208, 7–10–62, Cl. D49—1.
Graham, William J. Tray or similar article. 194,114, 11–20–62, Cl. D44—10.
Gran, William A., to The Vendo Co. Vending machine. 194,065, 11–13–62. Cl. D52—3.

621173—P——75

Grant, Howard E., to Automatic Concessions Corp. Child's space ship toy. 192,328, 3–6–62, Cl. D34—15.
Grant, Howard E., to Automatic Concessions Corp. Vending machine or similar article. 192,443, 3–20–62, Cl. D52—2.
Grant, Joseph L.: *See*—
Talge, Henry J., Grant and Chappell. 192,079.
Talge, Henry J., Grant, and Chappell. 192,080.
Gray Realty Corp.: *See*—
Downing, Harold E., and Vaughn. 192,270.
Gray, Robert H. Hand winch. 193,943, 10–30–62, Cl. D41—1.
Gray, Thomas O.: *See*—
Barker, Charles T., and Gray. 192,558.
Great Neck Saw Manufacturers Inc.: *See*—
Jacoff, Sydney. 193,496.
Green, Edward H., to Cleveland Aerosol Packaging Corp. Combined closure and dispenser for an aerosol container. 193,587, 9–11–62, Cl. D58—26.
Green, Edward H., to Cleveland Aerosol Packaging Corp. Finger guide for an aerosol dispenser. 193,588, 9–11–62, Cl. D58—26.
Green, John R., Jr. Golf club head. 193,096, 6–26–62, Cl. D34—5.
Green, Lawrence L. Casket hardware member. 192,030, 1–9–62, Cl. D19—2.
Green, Murray E., to Zylite Products Co., Inc. Spectacle frame. 193,114 6–26–62, Cl. D57—1.
Green, William H. Table lamp or similar article. 192,440, 3–20–62, Cl. D48—20.
Greenamyer, Hazel M. Game board. 193,727, 10–2–62, Cl. D34—5.
Greenberg, Leonard E. Boat. 192,771, 5–8–62, Cl. D71—1.
Greene, Frederick C.: *See*—
Price, Paul S., and Greene. 193,421.
Greenman, Robert E.: *See*—
McKee, Dale W., and Greenman. 192,415.
Greif, Francis. Combined paper clip and container. 194,294, 12–25–62, Cl. D74—2.
Grieshaber, Gunther S., to Pass & Seymour, Inc. Switch plate or the like. 192,804, 5–15–62, Cl. D26—13.
Grieshaber, Gunther S., to Pass & Seymour, Inc. Electric wall plate or the like. 192,805, 5–15–62, Cl. D26—13.
Greenhaus, Albert: *See*—
Knoll, David, Greenhaus, and Jaffe. 193,320.
Gribbie, Joseph J., and D. E. Scott, to Square D Co. Switch button. 193,141. 7–3–62, Cl. D26—13.
Griffiths, Edward G., to Camboc Fastener Corp. Airman's helmet. 193,761, 10–9–62, Cl. D3—13.
Groff, Emory L., Jr., to F. A. Buonauro. Combination package and serving container. 192,103, 1–16–62, Cl. D58—6.5.
Groff, Emory L., Jr., to F. A. Buonauro. Combined package and serving container. 193,362, 8–7–62, Cl. D58—25.
Gross, Stanley B. Aerator. 192,906, 5–22–62. Cl. D91—3.
Grossman, Arthur M. Compartmented plate. 194,054, 11–13–62, Cl. D44—11.
Grossman, Charles F., to General Electric Co. Card reader enclosure. 193,783, 10–9–62, Cl. D26—5.
Grosso, Raymond A., to Sylvania Electric Products Inc. Slide projector. 192,336, 3–6–62, Cl. D61—1.
Grove, Marvin H. Completion valve. 192,398, 3–13–62, Cl. D78—1.
Grove, Marvin H. Gate valve. 194,297, 12–25–62, Cl. D78—1.
Grove, Robert, to Chrysler Corp. Automobile wheel cover. 192,500, 4–3–62, Cl. D14—30.
Grube, Clifford E., to Associated Mills, Inc. Fluid flow gauge. 192,575, 4–10–62, Cl. D52—6.
Grunwald, Frank M.: *See*—
Rawson, Paul O., Jr., and Grunwald. 192,434.
Grunwald, Frank M., to General Electric Co. Heating pad control or similar article. 193,893, 10–23–62, Cl. D26—13.
Guarriello, Theodore J. Flower pot or the like. 192,811, 5–15–62, Cl. D35—3.
Guggemos, Kenneth F. Street lighting lamp or the like. 193,206, 7–10–62, Cl. D48—31.
Guida, Frank. Torch jig for circular welding. 193,284, 7–24–62, Cl. D62—2.
Guillaumant, Roger E. Support rack for cooking utensil lids or the like. 192,531, 4–3–62, Cl. D44—29.
Guillemette, Roger P., to Fairhope Fabrics, Inc. Knitted fabric. 192,973, 6–5–62, Cl. D47—2.
Guldberg, Carl E.: *See*—
Baker, Clifford G., and Guldberg. 193,361.
Gulland, Arnold P. Small parts bin. 192,271, 2–20–62, Cl. D58—13.
Gunderson, Ralph R. Fish lure. 193,432, 8–21–62, Cl. D21—1.
Gurr, Robert H. Amusement ride car. 192,932, 5–29–62, Cl. D34—15.
Guth, Edwin F., Co., The: *See*—
Guth, Edwin F., Jr. 192,745.
Guth, Edwin F., Jr., to The Edwin F. Guth Co. Luminaire. 192,745, 5–8–62, Cl. D48—23.
Guthormser., Harry E., to Healthways. Bar bell or similar article. 194,042. 11–13–62, Cl. D34—5.
Gutridge, Jack E., to Pullman Inc. Bulk lading car. 192,063, 1–9–62, Cl. D66—1.
Gutridge, Jack E., to Pullman Inc. Railway car for transporting vehicles. 193,286, 7–24–62, Cl. D66—1.
Gygie, Arthur J. Bracket holder for toothbrush tube. 193,762, 10–9–62, Cl. D4—3.

Gygie, Arthur J. Tube holder for toothbrush. 193,764, 10–9–62, Cl. D4—3.

Haas, Oswald E. Combined store directory and display cabinet. 192,311, 2–27–62, Cl. D80—11.

Haddad, Amram. Doll package. 194,130, 11–20–62, Cl. D58—2.

Haeckler, Charles W., to Westinghouse Air Brake Co. Portable control device. 193,784, 10–9–62, Cl. D26—13.

Hageal, Neal, and E. J. Caputo. Shoe shine kit. 192,848, 5–22–62, Cl. D3—2.

Hagelbarger, David W., to Bell Telephone Laboratories, Inc. Telephone handset. 193,662, 9–25–62, Cl. D26—14.

Hagelbarger, David W., to Bell Telephone Laboratories, Inc. Telephone handset. 193,663, 9–25–62, Cl. D26—14.

Hahn, Richard H., and H. V. French. Combined fluid and electric coupling for aircraft or the like. 193,323, 7–31–62, Cl. D91—3.

Haig, James, Inc.: *See*—
Sunukjian, Haig. 193,537.

Hall, C. M., Lamp Co.: *See*—
Stortz, Robert K. 192,213.
Stortz, Robert K. 192,633.
Stortz, Robert K. 194,180.

Hallock, Edward C. Grille. 193,210, 7–10–62, Cl. D54—2.

Hallock, Edward C. Grille. 193,211, 7–10–62, Cl. D54—2.

Hallock, Edward C. Spacing unit for a grille. 193,250, 7–17–62, Cl. D54—2.

Hallock, Edward C. Grille unit. 193,358, 8–7–62, Cl. D54—2.

Hallock, Edward C. Spacing unit for a grille. 193,578, 9–11–62, Cl. D54—2.

Hallock, Edward C. Grille. 193,808, 10–9–62, Cl. D54—2.

Hallock, Edward C. Grille unit. 193,947, 10–30–62, Cl. D54—2.

Hallock, Edward C. Spacer for a grille. 194,162, 11–27–62, Cl. D54—2.

Haloski, Frank, and R. A. Adams, to Vacuum Can Co. Sterilizer for open end containers. 192,005, 1–2–62, Cl. D9—2.

Hamer, Leland S. Wheel stabilizer weight. 192,141, 1–30–62, Cl. D14—30.

Hamer, Leland S. Wheel balance weight. 192,142, 1–30–62, Cl. D14—30.

Hamilton Cosco, Inc.: *See*—
Hamilton, Earl F. 192,072.
Hamilton, Earl F. 193,326.
Hamilton, Earl F. 193,613.
Lay, Ralph B. 194,146.

Hamilton, Earl F., to Hamilton Cosco, Inc. Infant's crib. 192,072, 1–16–62, Cl. D5—5.

Hamilton, Earl F., to Hamilton Cosco, Inc. Convertible crib. 193,326, 8–7–62, Cl. D5—5.

Hamilton, Earl F., to Hamilton Cosco, Inc. Adjustable infant's chair. 193,613, 9–18–62, Cl. D15—1.

Hamilton Mfg. Co.: *See*—
Graham, James D. 194,033.

Hamilton-Skotch Corp., The: *See*—
Piker, Herbert M. 193,449.
Piker, Herbert M. 194,075.

Hamilton, Walter B., Jr. Indoor metal fireplace. 193,823, 10–9–62, Cl. D81—7.

Hamlett, Sidney J., to White Sewing Machine Corp. Sewing machine. 193,040, 6–12–62, Cl. D70—1.

Hamm, Donald J. T.: *See*—
Belski, John E., and Hamm. 192,881.

Hammer, Hieme C. Clock. 193,568, 9–11–62, Cl. D42—7.

Hammond Organ Co.: *See*—
Miller, Nels A. 192,450.
Miller, Nels A. 192,882.

Hamon, Orville C. Vase. 192,363, 3–13–62, Cl. D29—28.

Hamon, Orville C. Vase. 193,188, 7–10–62, Cl. D29—28.

Hancock, Edwin, to Batson-Cook Co. Cylinder drying unit for slashers. 193,109, 6–26–62, Cl. D49—1.

Han, Samuel D., to American Can Co. Cup. 192,191, 2–6–62, Cl. D58—11.

Hanau Engineering Co., Inc.: *See*—
Straus, Walter S. 192,356.

Hanby, Jack T. Poultry feeder. 193,837, 10–16–62, Cl. D12—2.

Handley Industries, Inc.: *See*—
Whitman, Robert L. 193,023.

Hansen, Hubert H., to Fun in the Sun of Florida, Inc. Animal figure playground device. 192,254, 2–20–62, Cl. D34—15.

Hansen, Hubert H., to Fun in the Sun of Florida, Inc. Animal figure playground device. 192,255, 2–20–62, Cl. D34—15.

Hansen, John V.: *See*—
Rhoades, Nolan K., and Hansen. 192,300.

Hansen, John V., and R. T. Jacobsen, to The Electric Storage Battery Co. Marine bow light. 192,478, 3–27–62, Cl. D48—32.

Hansen, John V., and R. T. Jacobsen, to The Electric Storage Battery Co. Marine stern light. 192,532, 4–3–62, Cl. D48—32.

Hanson, Thomas E., and C. J. Abend, to Smith-Corona Marchant Inc. Electrostatic photocopy apparatus. 194,080, 11–13–62, Cl. D61—1.

Harano, Katsumi. Tongs for pulling weeds and the like. 192,520, 4–3–62, Cl. D35—2.

Harano, Katsumi. Garden tool. 194,049, 11–13–62, Cl. D35—2.

Hardwick Stove Co.: *See*—
Brown, Reeves. 193,232.

Harkins, William H., to Connecticut Technical Corp. Metronome housing. 192,641, 4–24–62, Cl. D42—7.

Harling, Otto K., and J. Dubman, to The Singer Mfg Co. Lens for a sewing machine light or similar article. 193,867, 10–16–62, Cl. D48—16.

Harnage, William H., to The Drackett Co. Catchup dispenser. 193,037, 6–12–62, Cl. D62—2.

Harned, Malcolm S., and H. T. Lund, to Hughes Tool Co. Helicopter. 193,290, 7–24–62, Cl. D71—1.

Harris, Mack D.: *See*—
Oakes, Charles D., and Harris. 192,083.

Harris, William C., to Sunbeam Corp. Floor polisher or similar article. 193,653, 9–25–62, Cl. D9—2.

Harrison, Clifford D. Bottle cap remover. 193,899, 10–23–62, Cl. D44—29.

Harry and David: *See*—
Pelly, Charles W. 192,791.

Harry, David W., and J. Diamond, to Boeing Airplane Co. Rotary wing aircraft. 193,075, 6–19–62, Cl. D71—1.

Hart, George D., to Nutone, Inc. Combined lighting fixture and cover for a ceiling heater and ventilator combination. 192,312, 2–27–62, Cl. D81—10.

Hart, George D., to Nutone, Inc. Housing for a ceiling heater. 192,402, 3–13–62, Cl. D81—10.

Hart, George H.: *See*—
Richard G. Hart, and Schaefer. 192,086.

Hart, George H., to Brunswick Corp. Sand urn or the like. 192,581, 4–10–62, Cl. D58—18.

Hartjen, Raymond H., to Grafiex, Inc. Teaching machine. 193,480, 8–28–62, Cl. D25—1.

Hartman, John H., to Texagon Mills, Inc. Lace. 193,800, 10–9–62, Cl. D47—6.

Harty, Millard F., Jr., to Michigan Brass Co. Faucet unit or similar article. 193,827, 10–9–62, Cl. D91—3.

Harty, Millard F., Jr., to Michigan Brass Co. Faucet unit or similar article. 193,923, 10–23–62, Cl. D91—3.

Harty, Millard F., Jr., to Michigan Brass Co. Faucet unit or similar article. 193,924, 10–23–62, Cl. D91—3.

Harvey, Richard. Modular unit for grille panels. 193,327, 8–7–62, Cl. D13—1.

Harwood, Richard J. Exerciser, or similar article. 192,433, 3–20–62, Cl. D34—5.

Haselton, William M.: *See*—
Walsh, John C., and Haselton. 193,779.

Haskett, Elmer L., and H. V. Tuttle. Base ball practice device. 192,432, 3–20–62, Cl. D34—5.

Hasselbusch, Harold E. Ball catcher toy. 194,045, 11–13–62, Cl. D34—5.

Hassenfeld Bros., Inc.: *See*—
Hassenfeld, Merrill L. 194,215.

Hassenfeld, Merrill L., to Hassenfeld Bros., Inc. Game target. 194,215, 12–11–62, Cl. D34—5.

Hastings, Allan J., and E. C. Julian, to The Boeing Co. Furniture base. 193,999, 6–12–62, Cl. D15—1.

Hatton, Samuel J., to Hi-Way Safety Equipment Co. Highway signal or similar article. 193,881, 10–16–62, Cl. D72—1.

Haubert, Wayne: *See*—
Kennedy, William T., Jr., and Haubert. 193,273.

Haubert, Wayne, to The Mexico Forge, Inc. Playground climber. 192,224, 2–13–62, Cl. D34—5.

Haubert, Wayne, to The Mexico Forge, Inc. Seesaw. 192,638, 4–24–62, Cl. D34—5.

Hauser, Alfred K. Butter dish. 192,476, 3–27–62, Cl. D14—5.

Hauser, John W., to Elkag Mfg. Co. Multiple-bowl sink. 193,464, 8–28–62, Cl. D4—2.

Hauser, Jon W., to National Brush Co. Combined shovel, scraper and brush, or the like. 193,887, 10–23–62, Cl. D9—2.

Hawk, Leo J. Handle for kitchen ranges or the like. 193,698, 9–25–62, Cl. D81—25.

Hawkins, Richard G., to W. T. Hedlund Co. Food waste disposer. 194,128. 11–20–62, Cl. D55—1.

Hawkinson, Paul E., Co.: *See*—
Hawkinson, Raymond P. 192,880.

Hawkinson, Raymond P., to Paul E. Hawkinson Co. Pneumatic tire spreader. 192,880, 5–22–62, Cl. D54—14.

Hawthorne, Donald C. Headset. 193,936, 10–30–62, Cl. D26—14.

Hayes, Robert K.: *See*—
Bixler, Loring C., Hayes, and Sedaris. 193,660.

Hayes, Verne. Carton for fruit or the like. 193,690, 9–25–62, Cl. D58—11.

Hays, Kenneth S., to AMP Inc. Electrical connector clamp or similar article. 193,511, 9–4–62, Cl. D26—1.

Hazenberg, Cornell D., to Chautauqua Hardware Corp. Drawer pull. 192,350, 3–13–62, Cl. D10—8.

Hazenberg, Cornell D., to Chautauqua Hardware Corp. Drawer pull. 193,768, 10–9–62, Cl. D10—8.

Head, Howard. Ski pole handle. 192,929, 5–29–62, Cl. D34—14.

Healthways: *See*—
Guthormsen, Harry E. 194,042.

Hecht, Melvyn H. Bottle stopper. 192,710, 5–1–62, Cl. D58—10.

Hecker, Marvin S. Game board. 192,013, 1–2–62, Cl. D34—5.

Heddon's, James, Sons: *See*—
Miller, Earl E., Krotzer, and Gallup. 192,430.
Miller, Earl E., Krotzer, and Gallup. 193,515.

Hedlund, W. T., Co.: *See*—
Hawkins, Richard G. 194,128.

Heil-Quaker Corp.: *See*—
Bourner, Howard L., and Radley. 194,254.
Heininger, Oskar, and D. E. Landry, to Sylvania Electric Products Inc. Console for a data processing system, 193,-616, 9–18–62, Cl. D26—5.
Heintze, Walter T., to Schenley Industries, Inc. Decanter. 192,709, 5–1–62, Cl. D58—6.
Heinz, Knute: *See*—
Bille, Steven T., and Heinz. 193,307.
Heird Lumber Co., Inc.: *See*—
Berry, James H. 192,863.
Helgeson, Peter L.: *See*—
Clark, Robert A., and Helgeson. 193,822.
Heling, Paul, to Gebruder Merten. Stand for phonograph records. 192,120, 1–23–62, Cl. D33—3.
Heller, Bernard, to Viking Stainless Co., Inc. Lazy susan. 193,103, 6–26–62, Cl. D44—10.
Helm Accessories, Inc.: *See*—
Helm, Frederick A. 193,612.
Helm, Frederick A. 193,840.
Helm, Frederick A., to Helm Accessories, Inc. Stanchion for car top luggage carrier. 193,612, 9–18–62, Cl. D14—27.
Helm, Frederick A., to Helm Accessories, Inc. Stanchion for car top luggage carrier. 193,840, 10–16–62, Cl. D14—27.
Hempfling, Walter L. Illuminable display stand for cakes or the like. 193,374, 8–7–62, Cl. D80—9.
Hendrikson, Bror W.: *See*—
Black, Warren R., and Hendrikson. 193,615.
Hengst, Walter D. Fisherman's belt. 193,166, 7–10–62, Cl. D3—10.
Henrich, Howard J. Golf club head. 192,515,4–3–62, Cl. D34—5.
Herda, Robert C.: *See*—
Anderson, Robert R., Herda, Hiller, Jacobsen, Nichols, and Sherby. 192,666.
Herrmann, Mrs. Paul E.: *See*—
Severance, Ellsworth W. 193,439.
Herscovitz, Jack. Warning signal unit for bilge flooding or the like. 192,275, 2–20–62, Cl. D72—1.
Hess, Constance R. Combined table and cabinet unit. 192,-689, 5–1–62, Cl. D33—14.
Hester, Hal L.: *See*—
Anderson, Douglas W., Goldsmith, Hester, and Ortega. 194,071.
Heuser, Karl C.: *See*—
Weiss, Richard, Heuser, and Finke. 194,248.
Hewing, Anna B. Toy stilt. 194,047, 11–13–62, Cl. D34—14.
Hewitt, Arthur, to Schenley Industries, Inc. Bottle. 192,537, 4–3–62, Cl. D58—6.
Hewlett-Packard Co.: *See*—
Clement, Carl J., Jr., and Inhelder. 193,989.
Inhelder, Eric A. 192,116.
Hibbard, Thomas L., to Kelsey-Hayes Co. Wheel. 193,978, 11–6–62. Cl. D14—30.
Hibyan, Edward S.: *See*—
Howard, George J., and Hibyan. 193,492.
Hickey, Edward T. Dispenser for collapsible tubes, or similar article. 194,092, 11–20–62, Cl. D4—3.
Hicks, Alan: *See*—
Swimmer, Ernest J., and Hicks. 193,941.
Higbie Mfg. Co.: *See*—
Wood, Morris E. 193,788.
Highberger, Samuel M., to Clark Equipment Co. Lift truck. 193,505, 9–4–62, Cl. D14—3.
Highberger, Samuel M., and N. T. Kuypers, to Clark Equipment Co. Vehicle. 193,975, 11–6–62, Cl. D14—3.
Hill, Clarence L. Holder for mops, brooms, or the like. 194,231, 12–18–62, Cl. D9—2.
Hill, Edward F. Blender. 192,387, 3–13–62, Cl. D55—1.
Hill, Joseph A., to Jacobsen Mfg. Co. Tractor. 193,135, 7–3–62, Cl. D14—3.
Hill-Shaw Co.: *See*—
Ruhnke, Edward J. 194,091.
Hillebrandt, Johan E. Stringed musical instrument. 192,705, 5–1–62, Cl. D56—1.
Hiller Aircraft Corp.: *See*—
Anderson, Robert R., Herda, Hiller, Jacobsen, Nichols, and Sherby. 192,666.
Hiller, Stanley, Jr.: *See*—
Anderson, Robert R., Herda, Hiller, Jacobsen, Nichols, and Sherby. 192,666.
Hills, David G., to Plax Corp. Bottle. 193,031, 6–12–62, Cl. D58—8.
Hills, David G., to Plax Corp. Bottle. 193,281, 7–24–62, Cl. D58—6.
Hills-McCanna Co.: *See*—
Eidson, Dennis L. 192,235.
Him, George, to Britains Ltd. Toy camel. 193,719, 10–2–62, Cl. D34—2.
Him, George, to Britains Ltd. Toy dog. 193,720, 10–2–62, Cl. D34—2.
Him, George, to Britains Ltd. Toy horse. 193,721, 10–2–62, Cl. D34—2.
Him, George, to Britains Ltd. Toy lion. 193,722, 10–2–62, Cl. D34—2.
Him, George, to Britains Ltd. Toy giraffe. 193,723, 10–2–62, Cl. D34—2.
Him, George, to Britains Ltd. Toy ostrich. 193,724, 10–2–62, Cl. D34—2.
Him, George, to Britains Ltd. Toy man. 193,725, 10–2–62, Cl. D34—4.
Himmelsbach, Paul, to Jos. Schneider & Co., Optische Werke. Combination optical objective and motor housing. 192,706, 5–1–62, Cl. D57—1.
Hires, Charles E., Co., a Division of Consolidated Foods Corp.: *See*—
Elkins, Vance V. 193,084.
Hirschland, Richard S., and A. A. and S. R. Cohen, to George V. Clark Co., Inc. Motion picture film reel. 194,005, 11–6–62, Cl. D61—1.
Hitchcock, Richard E.: *See*—
Sundberg, Carl W., and Hitchcock. 192,496.
Hittinger, Paul, and J. M. Steinke, to The National Cash Register Co. Checkout counter. 193,820, 10–9–62, Cl. D80—2.
Hittinger, Paul L., to The National Cash Register Co. Combined checkout counter and dispensing machine. 192,898, 5–22–62, Cl. D80—2.
Hittinger, Paul L., to The National Cash Register Co. Checkout counter. 193,079, 6–19–62, Cl. D80—2.
Hi-Way Safety Equipment Co.: *See*—
Hatton, Samuel J. 193,881.
Hoben, Harold E.: *See*—
Statler, William H., Hoben, and Burton. 193,073.
Hockery, John C.: *See*—
Talge, Henry J. 192,675.
Talge, Henry J. 193,376.
Talge, Henry J. 193,461.
Hodgman, Clare E., to The Coca-Cola Co. Beverage vending machine. 192,180, 2–6–62, Cl. D52—3.
Hodgman, Clare E., to The Coca-Cola Co. Bottle carrier. 192,756, 5–8–62, Cl. D58—26.
Hodgman, Clare E., to The Coca-Cola Co. Beverage dispenser. 193,759, 10–9–62, Cl. D2—3.
Hoff, Wally C., and R. Somerville, to The McBee Co. Ltd. Postage meter base. 192,396, 3–13–62, Cl. D64—11.
Hoffinger, Martin. Surface skimmer for swimming pools or the like. 193,755, 10–2–62, Cl. D91—1.
Hoffman, Frank A. Carrying case. 193,601, 9–11–62, Cl. D87—5.
Hoffman, Harald R., to The M. T. & D. Co. Velocipede. 193,673, 9–25–62, Cl. D34—15.
Hoffmann-Igl, Ernst, to Metallwarenfabrik Meyer & Niss G.m.b.H. Portable stove. 192,549, 4–3–62, Cl. D81—10.
Hofmeister, Wilhelm, to Bayerische Motoren Werke Aktiengesellschaft. Automobile. 194,179, 12–4–62, Cl. D14—3.
Hogberg, John R. Burial vault base. 192,078, 1–16–62, Cl. D19—1.
Hogeman, Hans, to American Bosch Arma Corp. Fuel injection pump. 193,226, 7–10–62, Cl. D65—1.
Hogeman, Hans, to American Bosch Arma Corp. Housing for a fuel injection pump. 193,285, 7–24–62, Cl. D65—1.
Hogeman, Hans, to American Bosch Arma Corp. Fuel injection pump. 193,292, 7–24–62, Cl. D65—1.
Holberton, John L. Combination storm and door frame. 193,053, 6–19–62, Cl. D13—1.
Holder, Lucions A.: *See*—
Holder, Malcom P. and L. A. 192,736.
Holder, Malcom P. and L. A. Fishing fly. 192,736, 5–8–62, Cl. D31—4.
Holland John P.: *See*—
Wolf, Cecil R., and Holland. 194,094.
Hollifield, Thomas R. Fish lure. 192,511, 4–3–62, Cl. D31—4.
Holloway, E. R., Ltd.: *See*—
Evans, Trevor G. 194,291.
Holloway, Gladys W.: *See*—
Baratelli, Charles. 193,252.
Baratelli, Charles. 194,284.
Holls, David R., to General Motors Corp. Wheel cover. 192,-797, 5–15–62, Cl. D14—30.
Holls, David R., to General Motors Corp. Wheel cover. 192,798, 5–15–62, Cl. D14—30.
Holmes, Brian H.: *See*—
Jones, Frank B., and Holmes. 193,539.
Holmes, Romayne E., Jr., to Kelsey-Hayes Co. Wheel. 193,-476, 8–28–62, Cl. D14—30.
Holmes, Romayne E., Jr., to Kelsey-Hayes Co. Wheel. 193,979, 11–6–62, Cl. D14—30.
Holophane Co., Inc.: *See*—
Franck, Kurt. 192,877.
Holt, Clare E., to Applied Power Industries, Inc. Adjustable stand for supporting reels or the like. 192,092, 1–16–62, Cl. D41—1.
Holt, Joseph. Flower pot holder. 193,438, 8–21–62, Cl. D35—3.
Holt, William E. Portable electric floor machine. 192,554, 4–10–62, Cl. D9—2.
Hoogesteger, Paul A., and J. W. Patla, to Bausch & Lomb Inc. Audiometer. 193,781, 10–9–62, Cl. D26—1.
Hoogesteger, Paul A., and R. L. Pitchford, to Bausch & Lomb Inc. Gun sighting telescope. 194,004, 11–6–62, Cl. D57—1.
Hoover Ball and Bearing Co.: *See*—
Denhoff, Donald P., and Brown. 192,827.
Denhoff, Donald P., and Brown. 192,887.
Denhoff, Donald P., and Brown. 194,244.
Platte, Richard L. 193,115.
Platte, Richard L. 193,116.
Hoover Co., The: *See*—
Dreyfuss, Henry, and Hose. 193,066.
Dreyfuss, Henry, and Hose. 193,527.
Gantz, Carroll M. 194,025.

Hopcraft, Donald L. Water heating and dispensing unit for use in making hot beverages. 193,083, 6–26–62, Cl. D2—3.
Hopp, Philip, R. H. Ensign, and D. Cardozo, Jr., to The Hopp Press, Inc. Combined holder and dispenser for price tags. 193,236, 7–17–62, Cl. D1—3.
Hopp Press, Inc., The: *See*—
Hopp, Philip, Ensign, and Cardozo. 193,236.
Horn, Newell: *See*—
Buechler, Alfred D., and Horn. 192,333.
Horne, Willard R.: *See*—
Clawson, Robert H., and Horne. 192,834.
Horovitz, Marcus, to Metalstik Ltd. Cable spacer. 193,780, 10–9–62, Cl. D26—1.
Hose, Robert H.: *See*—
Dreyfuss, Henry, and Hose. 193,066.
Dreyfuss, Henry, and Hose. 193,527.
Dreyfuss, Henry, Hose, and Illium. 192,117.
Dreyfuss, Henry, Hose, and Illium. 192,118.
Hose, Robert H., to Bell Telephone Laboratories, Inc. Automatic card-dialing telephone deskset. 193,269, 7–24–62, Cl. D26—14.
Hose, Robert H., to Bell Telephone Laboratories, Inc. Automatic card-dialing telephone desk-set. 193,270, 7–24–62, Cl. D26—14.
Hose, Robert H., and A. H. Lince, deceased, by H. A. Lince, executrix, to Bell Telephone Laboratories, Inc. Case for a measuring instrument. 193,481, 8–28–62, Cl. D26—1.
Hosley, Harold L. Mop holder. 192,316, 3–6–62, Cl. D9—2.
Hotz, Kenneth A., and J. W. Davies, to Gilson Bros. Co. Combined motor mount and transmission housing for a rotary tiller or the like. 193,274, 7–24–62, Cl. D35—2.
Hotz, Kenneth A., and J. W. Davies, to Gilson Bros. Co. Combined motor mount and transmission housing for a rotary tiller or the like. 193,998, 11–6–62, Cl. D35—2.
Houghton, Neal D., to Kerr Glass Mfg. Corp. Jug. 193,446, 8–21–62, Cl. D58—5.
Houghton, Neal D., to Kerr Glass Mfg. Corp. Jug. 194,069, 11–13–62, Cl. D58—5.
House, Elliott M., to Oneida Ltd. Plate or similar article. 192,037, 1–9–62, Cl. D44—15.
Houser, Warner: *See*—
Stout, Theophilus P. R., and Houser. 194,051.
Houston, Shirlee L. Doll. 193,061, 6–19–62, Cl. D34—4.
Houze, Lucian: *See*—
Parrish, Archie F., Houze, and Inge. 193,165.
Howard, Clinton L. Shipping container for medical specimens. 194,072, 11–13–62, Cl. D58—13.
Howard, George J., and E. S. Hibyan, to United Aircraft Corp. Helicopter. 193,492, 8–28–62, Cl. D71—1.
Howard, Howard H. Inflatable combination form and hanger for garments. 192,838, 5–15–62, Cl. D80—8.
Höwe, August W. Kitchen timer. 192,173, 2–6–62, Cl. D42—7.
Hrabe, Jerry, to Superior Tea & Coffee Co. Coffee urn. 192,344, 3–13–62, Cl. D2—3.
Hrozenchik, William J.: *See*—
Reifers, Richard F., Hrozenchik, and Kennedy. 193,220.
Huffman Mfg. Co., The: *See*—
Silbereis, Joseph A. 193,462.
Hughes Tool Co.: *See*—
Harned, Malcolm S., and Lund. 193,290.
Hulsey, Helen E. Towel rack. 192,678, 5–1–62, Cl. D4—3.
Hulsh, Sheldon D. Dispensing brush for cleaning upholstery or the like. 193,171, 7–10–62, Cl. D9—2.
Hulterstrum, Harold D., to Flambeau Plastics Corp. Combined wheel and tire. 192,417, 3–20–62, Cl. D14—30.
Humphries, John B., to The Excelsior Hardware Co. Luggage latch. 193,806, 10–9–62, Cl. D50—7.
Hunn, William E.: *See*—
Collinger, William W., Hunn, and Moore. 193,672.
Hunter, Radcliffe W., and S. E. Konecnik. Child's rocking chair. 193,056, 6–19–62, Cl. D15—1.
Hunter, Radcliffe W., and S. E. Konecnik. Child's rocking chair. 193,057, 6–19–62, Cl. D15—1.
Hunter, Radcliffe W., and S. E. Konecnik. Child's rocking chair. 193,058, 6–19–62, Cl. D15—1.
Hunter, Radcliffe W., and S. E. Konecnik. Child's rocking chair. 193,182, 7–10–62, Cl. D15—1.
Huntley, Wilbur A., to National Expert Bait Co., Inc. Fishing lure. 192,223, 2–13–62, Cl. D31—4.
Husen, Gerhard J. Christmas tree stand. 192,692, 5–1–62, Cl. D35—3.
Huskey, Lloyd L.: *See*—
Pachmayr, Frank A., and Huskey. 192,922.
Pachmayr, Frank A., and Huskey. 192,923.
Pachmayr, Frank A., and Huskey. 192,924.
Huskey, Willie E. Frame for a child's cart. 192,138, 1–30–62, Cl. D14—3.
Huskey, Willie E. Frame for a child's cart. 192,139, 1–30–62, Cl. D14—3.
Huskey, Willie E. Frame for a child's cart. 192,140, 1–30–62, Cl. D14—3.
Huthsing, Charles K., Jr., to General Fire Extinguisher Corp. Head for a portable fire extinguisher. 192,914, 5–29–62, Cl. D16—2.
Hutton Fabricating Mfg. Corp.: *See*—
Hutton, Leland H. 192,340.
Hutton, Leland H. 192,341.
Hutton, Leland H., to Hutton Fabricating Mfg. Corp. Nozzle for oxygen lances. 192,340, 3–6–62, Cl. D91—1.
Hutton, Leland H., to Hutton Fabricating Mfg. Corp. Nozzle for oxygan lances. 192,341, 3–6–62, Cl. D91—1.
Huxtable, Leonard G., to Kellogg Brush Mfg. Co. Handle for a brush or the like. 193,174, 7–10–62, Cl. D9—2.
Huxtable, Leonard G., to Kellogg Brush Mfg. Co. Handle for a brush or the like. 193,175, 7–10–62, Cl. D9—2.
Hvale, James L.: *See*—
Eckersberg, Robert A., and Hvale. 192,228.
Eckersberg, Robert A., and Hvale. 192,229.
Hvale, James L., and R. A. Eckersberg, to Ekco Products Co. Handle for kitchen tools or the like. 192,298, 2–27–62, Cl. D44—29.
Hvale, James L., and R. A. Eckersberg, to Ekco Products Co. Culinary beater. 192,808, 5–15–62, Cl. D44—1.
Hvale, James L., and R. A. Eckersberg, to Ekco Products Co. Culinary beater. 192,812, 5–15–62, Cl. D44—1.
Hvale, James L., and R. T. Kennedy, to Ekco Products Co. Garment hanger. 193,162, 7–3–62, Cl. D80—8.
Hyatt, John I., and L. E. Westheimer. Plate. 192,526, 4–3–62, Cl. D44—15.
Hyde, Robert W., to Superior Tool and Grinding Co. Hand pump. 192,830, 5–15–62, Cl. D65—1.
Hyde, Robert W. Putter head. 194,239, 12–18–62, Cl. D34—5.
Hydro-Air Engineering, Inc.: *See*—
Moehlenpah, Walter G. 193,809.
Hyman, Oscar, to Colony Textiles, Inc. Textile fabric. 193,925, 10–23–62, Cl. D92—1.
Hyman, Richard M., to Weco Products Co. Display holder for toothbrush or like article. 193,034, 6–12–62, Cl. D58—12.
Hysan Products Co.: *See*—
Brownstein, Henry J. 192,314.
Iannucci, Steve, to Gabriel Frank Associates, Inc. Stand for merchandise display bins or the like. 193,319, 7–31–62, Cl. D80—9.
Ideal Fishing Float Co., Inc.: *See*—
Kimbrough, Lud H., Jr. 192,154.
Illinois Tool Works, Inc.: *See*—
Mox, Dana W. 192,657.
Illium, Herbert C., Jr.: *See*—
Dreyfuss, Henry, Hose, and Illium. 192,117.
Dreyfuss, Henry, Hose, and Illium. 192,118.
Imbrie, Cynthia J.: *See*—
Massa, Erwin T., and Imbrie. 192,507.
Imhof, Alfred, Ltd.: *See*—
Lewer, Eric H. 192,613.
Lewer, Eric H. 192,650.
Imperial International Corp.: *See*—
Levi, Ralph. 193,163.
Imperial Knife Associated Companies, Inc.: *See*—
Zorn, Martin F. 192,916.
Imperial Knife Co., Inc.: *See*—
Baer, Henry B. 192,961.
Inatomi, Charles T., M. H. Best, and C. A. Samhammer, to The National Cash Register Co. Input-output console for a data processing system. 193,712, 10–2–62, Cl. D26—5.
Industrial Engineering & Erection Corp.: *See*—
Nelson, Robert P., and Pounds. 192,130.
Industrial Nucleonics Corp.: *See*—
Schlaechter, John H. 192,749.
Infrared Industries, Inc.: *See*—
Kleeberg, Gunther K. E. 192,360.
Inge, John W.: *See*—
Parrish, Archie F., Houze, and Inge. 193,165.
Inhelder, Eric A.: *See*—
Clement, Carl J., Jr., and Inhelder. 193,989.
Inhelder, Eric A., to Hewlett-Packard Co. Casing for an electronic testing instrument or similar article. 192,116, 1–23–62, Cl. D26—5.
Ino, Kunisaku. Jacket or similar article. 192,205, 2–13–62, Cl. D3—4.
Interarmco, Ltd.: *See*—
Winter, Richard S. 194,060.
Winter, Richard S. 194,061.
Winter, Richard S. 194,062.
Intercoastal Inc.: *See*—
Gory, Frank A. 193,983.
Gory, Frank A. 193,984.
International Business Machines Corp.: *See*—
Arnold, Dagmar L. 193,993.
Bixler, Loring C., Hayes, and Sedaris. 193,660.
Butler, Arnold J., Davis, and Talerico. 192,505.
David, William K., and Sheppley. 193,782.
Davis, Arnold M., and Wasserthell. 193,512.
Jaggar, John D. 194,263.
McCormick, Walter S., Jr., Stenabaugh, and Thompson. 192,802.
Noyes, Eliot. 192,829.
Noyes, Eliot. 193,271.
Noyes, Eliot. 193,302.
Noyes, Eliot, and Bevilacqua. 192,803.
Noyes, Eliot, Bevilacqua, and Kostanecki. 194,152.
Stringer, Jack W. 193,990.
Tankard, Rae F. 193,932.
International Edge Tool Co.: *See*—
Beltram, Joachim R. 192,628.
International Harvester Co.: *See*—
Ashley, Walter M., Jr., Shekut, and Syrett. 193,503.
Bowman, George E., Koeber, and McGirk. 193,180.
Domes, E. A. 193,705.
International Latex Corp.: *See*—
Astor, Edward E. 193,777.
Cole, Raymond C. 192,685.

International Patent Research Corp.: *See*—
Beinert, John D. 193,080.
Beinert, John D. 193,884.
International Silver Co., The: *See*—
Conroy, Edward J. 193,735.
Engelmann, Albert C. 192,446.
Engelmann, Albert C. 192,577.
Toffolon, Siro R. 192,701.
Toffolon, Siro R. 193,949.
Toffolon, Siro R. 194,126.
Toffolon, Siro R. 194,163.
Young, Stuart A. 192,576.
International Telephone and Telegraph Corp.: *See*—
Booty, Donald J. 193,894.
Intorcio, Domenico. Serving cart. 192,964, 6–5–62, Cl. D33—14.
Iorio, Ettore. Unitary sole and heel for footwear. 192,159, 2–6–62, Cl. D7—5.
Irasek, Eugene H., to The National Cash Register Co. Flexible magnetic data-storage strip. 193,813, 10–9–62, Cl. D59—1.
Itoh, C., & Co. (America) Inc.: *See*—
Sasada, Sukesaburo. 192,250.
Ivers-Lee Co.: *See*—
Van Mil, Stephen A., Jr. 193,951.
Van Mil, Stephen A., Jr. 194,196.
Ives, H. B., Co., The: *See*—
Benson, Fritz C. 192,958.
Izumi, Synya. Magnetic sound recording and reproducing instrument. 193,268, 7–24–62, Cl. D26—14.
Izzi, Edmund L., to Westinghouse Electric Corp. Luminaire. 192,041, 1–9–62, Cl. D48—31.
Izzo, Azalea. Stole. 193,649, 9–25–62, Cl. D3—16.
J. E. Plastics Mfg. Corp.: *See*—
Ringlen, Arthur. 194,166.
Jaagipol, Harri, to Eloise Curtis, Inc. Textile fabric or similar article. 194,302, 12–25–62, Cl. D92—1.
Jagipol, Harri, to Eloise Curtis, Inc. Textile fabric or similar article. 194,303, 12–25–62, Cl. D92—1.
Jackson, Alban G., to Simpson Timber Co. Door. 192,073, 1–16–62, Cl. D13—1.
Jackson, Alban G., to Simpson Timber Co. Door. 192,724, 5–8–62, Cl. D13—1.
Jackson, Duane O., to Distinguished Gift Manufacturers, Inc. Lazy Susan or the like. 193,308, 7–31–62, Cl. D44—10.
Jackson, Thomas S., to Expandex Corp. Packaging container for semiconductors or the like. 193,912, 10–23–62, Cl. D58—13.
Jacob, Mann E. Flag. 192,428, 3–20–62, Cl. D29—17.
Jacobs, Clifford R. Infant protector. 193,051, 6–19–62, Cl. D5—5.
Jacobs, Robert J., to Midland-Ross Corp. Extruder. 193,310, 7–31–62, Cl. D55—1.
Jacobsen, Edward H.: *See*—
Anderson, Robert R., Herda, Hiller, Jacobsen, Nichols, and Sherby. 192,666.
Jacobsen Mfg. Co.: *See*—
Hill, Joseph A. 193,135.
Jacobsen, Ralph T.: *See*—
Hansen, John V., and Jacobsen. 192,478.
Hansen, John V., and Jacobsen. 192,532.
Jacobsen, Walter H., to General Plastics Corp. of America Trellis. 194,125, 11–20–62, Cl. D54—2.
Jacobson, Phillip L. Combined holder and advertising display mobile for phonograph record jackets or the like. 192,399, 3–13–62, Cl. D80—1.
Jacoff, Sydney, to Great Neck Saw Manufacturers Inc. Handle or similar article. 193,496, 8–28–62, Cl. D93—4.
Jaffe, Herbert R.: *See*—
Knoll, David, Greenhaus, and Jaffe. 193,320.
Jagger, John D., to International Business Machines Corp. Combined card reader and card punch machine or similar article. 194,263, 12–25–62, Cl. D26—5.
Jahn, Carl M. Combined water bracket and tie-rod clamp for concrete forms. 192,231, 2–13–62, Cl. D51—1.
Jainecker, Anton, to Vereingte Metallwerke Ranshofen-Berndorf Aktiengesellschaft. Knife. 192,858, 5–22–62, Cl. D22—3.
Jainecker, Anton, to Vereinigte Metallwerke Ranshofen-Berndorf Aktiengesellschaft. Fork. 193,733, 10–2–62, Cl. D54—12.
Jainecker, Anton, to Vereinigte Metallwerke Ranshofen-Berndorf Aktiengesellschaft. Spoon. 193,734, 10–2–62, Cl. D54—12.
James, George T., to Gladding McBean & Co. Ash tray. 193,752, 10–2–62, Cl. D85—2.
Janke, Heinrich: *See*—
Mees, Robert, and Janke. 193,878.
Jantzen, George H., to Steinthal Sample Co., Inc. Display rack for fabric samples and the like. 193,961, 10–30–62, Cl. D80—9.
Jaquish, Guy D. Combination tool. 193,164, 7–3–62, Cl. D93—4.
Jarman, Donald G., ½ to F. E. Woertendyke. Surveyor's tool holder or the like. 194,020, 11–13–62, Cl. D3—26.
Jeffrey, Max L., to Young Regulator Co. Regulator valve handle. 192,951, 5–29–62, Cl. D78—1.
Jenkins, Robert B. Tray for medicaments or the like. 192,672, 4–24–62, Cl. D83—1.
Jenkins, Robert B. Tray for syringes or the like. 194,087, 11–13–62, Cl. D83—1.
Jenn-Air Products Co., Inc.: *See*—
Jenn, Louis J., and Morgan.
Jenn, Louis J., and J. R. Morgan, to Jenn-Air Products Co., Inc. Counter-top range and exhaust combination. 194,137, 11–20–62, Cl. D81—25.
Jennings, Charles E., Jr. Dryer for bathing suits. 193,805, 10–9–62, Cl. D49—1.
Jensen, George B., R. W. Lane, and W. B. Parker, to Daystrom, Inc. Chair. 194,031, 11–13–62, Cl. D15—1.
Jepson, Ivar, and R. E. Cornwell, to Sunbeam Corp. Vacuum cleaner. 192,555, 4–10–62, Cl. D9—2.
Jepson, Ivar, and R. O. Ernest, to Sunbeam Corp. Housing for a portable hair dryer. 194,201, 12–4–62, Cl. D86—10.
Johanson, Ralph A. W., to Electrolux Corp. Vacuum cleaner nozzle or the like. 192,160, 2–6–62, Cl. D9—2.
Johanson, Ralph A. W., to Electrolux Corp. Vacuum cleaner or the like. 193,608, 9–18–62, Cl. D9—2.
Johnson, Arthur F., to Commerce Clearing House, Inc. Book reading stand. 192,324, 3–6–62, Cl. D33—3.
Johnson, Arthur F., to Commerce Clearing House, Inc. Book reading stand. 192,325, 3–6–62, Cl. D33—3.
Johnson Bros. (Hanley) Ltd.: *See*—
Stone, Gerald S. 192,968.
Johnson, Charles R., Jr., to American Viscose Corp. Portable stand for strapping material or the like. 192,793, 5–15–62, Cl. D14—3.
Johnson, Charles R., Jr., to American Viscose Corp. Stand for strapping material or the like. 193,306, 7–31–62, Cl. D41—1.
Johnson, Denis E., and J. Palma, Jr., to The Muter Co. (Jensen Mfg. Co. Division). Loudspeaker. 192,290, 2–27–62, Cl. D26—14.
Johnson, Francis B., to Lockheed Aircraft Corp. Vestibule unit for aircraft passenger loading device or similar article. 193,229, 7–10–62, Cl. D71—1.
Johnson, Frank R. Portable grinder for sharpening flat faced barbers' clipper cutters or the like. 192,090, 1–16–62, Cl. D37—1.
Johnson, John P., to Textile Machines Works. Casserole or similar article. 192,329, 3–6–62, Cl. D44—15.
Johnson & Johnson: *See*—
Castelli, Charles. 192,455.
Custer, Melvin W. 192,774.
Gershen, Irvin J. 192,007.
Johnson, Marshall B., to The Black and Decker Mfg. Co. Portable electric jig saw. 192,134, 1–23–62, Cl. D93—3.
Johnson, Marshall B., to The Black and Decker Mfg. Co. Battery charger for a cordless electric tool or appliance. 192,427, 3–20–62, Cl. D26—15.
Johnson, Marshall B., to The Black and Decker Mfg. Co. Packaging container. 193,691, 9–25–62, Cl. D58—12.6.
Johnson, Norval J., and E. W. Schultz, to Porter Athletic Equipment Co. Basketball backstop. 194,238, 12–18–62, Cl. D34—5.
Johnson, Paul E., Jr. Sock. 194,219, 12–11–62, Cl. D47—7.
Johnson, Paul E., Jr. Sock. 194,281, 12–25–62, Cl. D47—7.
Johnson, Robert J.: *See*—
Lower, James C., Johnson, and Sanborn. 192,392.
Johnson, S. C., & Son: *See*—
Anderson, John J. 193,636.
Johnson, Samuel L. Hook for use on toilet tanks. 193,982, 11–6–62, Cl. D17—12.
Johnson, William F. Combined cable separator and hanger or similar article. 193,933, 10–30–62, Cl. D26—10.
Johnston, James G., to Challenge-Cook Bros. Inc. Trailer or similar article. 193,773, 10–9–62, Cl. D14—3.
Joiner, Edgar E., to Fred W. Meers Heel Co., Inc. Shoe heel. 192,409, 3–20–62, Cl. D7—5.
Jones, Charles E.: *See*—
Crowle, Robert H., and Jones. 192,265.
Crowle, Robert H. and W. G., and Jones. 192,542.
Crowle, Robert H. and W. G., and Jones. 192,543.
Crowle, Robert H. and W. G., and Jones. 192,544.
Jones, Frank B., and B. H. Holmes, to Dunlop Tire and Rubber Corp. Tire. 193,539, 9–4–62, Cl. D90—20.
Jones, Harold V. Storage cabinet for contact lenses. 192,839, 5–15–62, Cl. D80—11.
Jones, Henry S.: *See*—
Pascucci, Julio, and Jones. 192,646.
Jones, Llewellyn, to Strongcraft Products, Inc. Merchandise display stand. 193,821, 10–9–62, Cl. D80—10.
Jones, Thomas H., to United States of America, Army. Medallion or the like. 194,212, 12–11–62, Cl. D29—19.
Jones, William T., to Consolidated Molded Products Corp. Gravy boat. 193,064, 6–19–62, Cl. D44—21.
Jones, Wilson K., and G. N. Newham. Barbecue baster or the like. 192,039, 1–9–62, Cl. D44—29.
Jordan, Arlo R. Caddy cart or the like. 193,181, 7–10–62, Cl. D14—3.
Jorgensen, Irving W. Insect deflector for automobile windshields. 193,977, 11–6–62, Cl. D14—6.
Joseph, Catherine, to Gadget-of-the-Month Club, Inc. Child's shoe covering. 194,024, 11–13–62, Cl. D7—7.
Josephson, Gilbert: *See*—
Charpentier, Louis. 193,999.
Charpentier, Louis. 194,050.
Joslyn Mfg. and Supply Co.: *See*—
Fahey, James H., Jr. 192,260.
Stanley, Alfred H. 193,807.
Joyce, Edward F., 3rd. Handle. 192,556, 4–10–62, Cl. D10—8.

Judson, Albert E., to The General Electric Co. Ltd. Telephone amplifier. 192,637, 4–24–62, Cl. D26—14.

Julian, Edward C.: *See*—
Hastings, Allan J., and Julian. 192,999.

Julian, Ernest L.: *See*—
Webster, John T., and Julian. 192,210.

Jüngeling, Friedhelm G., to Staatsbedrijf Artillerie-Inrichtingen. Gun. 192,807, 5–15–62, Cl. D30—1.

Justrite Mfg. Co.: *See*—
Keller, Nicholas W., and Rosinski. 193,204.

K-D Mfg. Co.: *See*—
Madeira, William T. 192,653.
Madeira, William T. 192,750.
Mills, Ralph W. 192,721.

Kahn, David, Inc.: *See*—
Kahn, Julius M. 192,707.

Kahn, Julius M., to David Kahn, Inc. Display package for a writing instrument or the like. 192,707, 5–1–62, Cl. D58—2.

Kaiser Steel Corp.: *See*—
Clanton, Hollis L. 193,892.

Kal-Equip Co.: *See*—
Blowers, Ivan L. 192,939.

Kallman, Robert I.: *See*—
Defano, Don J. and Kallman. 193,426.

Kalter, Estelle. Infant's feeding spoon or similar article. 192,187, 2–6–62, Cl. D54—12.

Kamen, Abraham L. Question and answer game disc device. 194,043, 11–13–62, Cl. D34—5.

Kamp, Ewald A. Convertible couch. 192,679, 5–1–62, Cl. D5—4.

Kamp, George B., to Bowser, Inc. Gasoline pump. 193,209, 7–10–62, Cl. D52—2.

Kanoff, Bernard R. Sink or the like. 193,168, 7–10–62, Cl. D4—2.

Kaplan, Theodore. Jug. 192,451, 3–20–62, Cl. D58—5.

Kaplan, Theodore. Jug. 192,886, 5–22–62, Cl. D58—5.

Kapusta, John M., to Cutlas Tool & Mfg. Co. Combined guard and lamp for grinding machines or the like. 192,744, 5–8–62, Cl. D48—20.

Kardach, Gerald E. Platform unit for the rear seat of a car. 193,389, 8–14–62, Cl. D14—6.

Karp, Albert E.: *See*—
Kofsky, Melvin H., and Karp. 192,925.

Karp, Julian H., to Electrogen Industries, Inc. Ozone generator. 193,139, 7–3–62, Cl. D16—2.

Karr, Henry. Christmas card display rack. 192,546, 4–3–62, Cl. D80—9.

Kartonax G.m.b.H.: *See*—
Maurer, Carl M. 194,187.

Kashe, Victor. Boat. 192,772, 5–8–62, Cl. D71—1.

Kasper, Elmer J., to Royal Appliance Mfg. Co. Blackboard eraser cleaner. 193,172, 7–10–62, Cl. D9—2.

Kasser, Norman J. Sign or similar article. 194,142, 11–27–62, Cl. D1—12.

Kather, Alfred C. Tether ball game paddle. 192,253, 2–20–62, Cl. D24—15.

Katzman, Daniel: *See*—
Zipursky, Morley, and Katzman. 193,549.

Katzman, Lawrence. Combined medicinal steam vaporizer and humidifier or the like. 192,589, 4–10–62, Cl. D83—1.

Katzman, Lawrence. Medicinal steam vaporizer or the like. 192,842, 5–15–62, Cl. D83—1.

Katzman, Lawrence. Combined medicinal steam vaporizer and holder therefor or the like. 192,843, 5–15–62, Cl. D83—1.

Kaupp, Bette K., to Maidenform, Inc. Girdle. 192,504, 4–3–62, Cl. D20—2.

Kawneer Co.: *See*—
Schwind, Paul J. 193,502.

Kawolics, Raymond P., to The Central Brass Mfg. Co. Faucet handle. 192,592, 4–10–62, Cl. D91—3.

Keal, John J., to General Metalcraft, Inc. Barbecue brazier. 192,625, 4–17–62, Cl. D81—10.

Kehoe, John V.: *See*—
Travers, William J., and Kehoe. 193,289.

Keller, Nicholas W., and B. B. Rosinski, to Justrite Mfg. Co. Lautern. 193,204, 7–10–62, Cl. D48—24.

Kelley, Eden. Child's dress. 193,497, 9–4–62, Cl. D3—26.

Kelley, Eden. Child's dress. 193,498, 9–4–62, Cl. D3—26.

Kelley, James W. Trouser hanger. 193,318, 7–31–62, Cl. D80—8.

Kellogg Brush Mfg. Co.: *See*—
Huxtable, Leonard G. 193,174.
Huxtable, Leonard G. 193,175.

Kellogg, George F. Display rack for books or the like. 192,547, 4–3–62, Cl. D80—9.

Kelly, Burton: *See*—
Wickenberg, Chester H., and Kelly. 192,066.

Kelly, Jerome F., to Riegel Textile Corp. Plastic figured textile fabric. 192,905, 5–22–62, Cl. D87—3.

Kelly, Merrill H.: *See*—
Le Veille, Philip E., and Kelly. 193,161.

Kelly, P. M., & Sons, Manufacturers: *See*—
Kelly, Pascal M. 193,351.

Kelly, Pascal M., to P. M. Kelly & Sons, Manufacturers. Bridle bit. 193,351, 8–7–62, Cl. D38—2.

Kelly, Robert P., W. E. Leek, and J. S. Martin. Firearm. 193,483, 8–28–62, Cl. D30—1.

Kelman, Samuel E., to The Metalart Co. Holder for lipstick tubes. 192,108, 1–16–62, Cl. D86—10.

Kelnhofer, John J., to Fabmagic, Inc. Vacuum cleaner. 193,264, 7–24–62, Cl. D9—2.

Kelsey-Hayes Co.: *See*—
Hibbard, Thomas L. 193,978.
Holmes, Romayne E. 193,979.
Holmes, Romayne E., Jr. 193,476.

Kelso, James W., to Packard-Bell Electronics Corp. Control panel for a television receiver or similar article. 194,195, 12–4–62, Cl. D56—4.

Kemplin, Richard M.: *See*—
Austin, Edward E., and Kemplin. 193,731.

Ken-Lab. Inc.: *See*—
Wood, William H. 193,169.

Kennedy, Richard T.: *See*—
Hvale, James L., and Kennedy. 193,162.

Kennedy, Thomas B.: *See*—
Reifers, Richard F., Hrozenchik, and Kennedy. 193,220.

Kennedy, William T., Jr., and W. Haubert, to The Mexico Forge, Inc. Playground device. 193,273, 7–24–62, Cl. D34—5.

Kenney, James T., and C. J. O'Loughlin, 33⅓ to J. E. Becker. Educational game board or similar article. 193,148, 7–3–62, Cl. D34—5.

Kenney, James T., and C. J. O'Loughlin, 33⅓ to J. E. Becker. Educational game board or similar article. 193,349, 8–7–62, Cl. D34—5.

Kent, Gerald P.: *See*—
Sundberg, Carl W. 192,053.

Keosiff, Feodor. Target game casing. 192,292, 2–27–62, Cl. D34—5.

Keown, John A. Chair. 193,708, 10–2–62, Cl. D15—1.

Kermes, Constantine J.: *See*—
Blanshine, Allison W., and Kermes. 194,112.

Kermes, Constantine J., to Sperry Rand Corp. Hay baler. 192,371, 3–13–62, Cl. D40—1.

Kern, Paul, to E. Mettler. Micro-balance unit. 192,612, 4–17–62, Cl. D52—6.

Kerr Glass Mfg. Corp.: *See*—
Houghton, Neal D. 193,446.
Houghton, Neal D. 194,069.

Kerr, Roger B., to General Electric Co. Panel meter for an ammeter or the like. 193,732, 10–2–62, Cl. D52—6.

Kerr, William S., and M. F. Taylor. Animal shipping crate. 193,769, 10–9–62, Cl. D12—2.

Ketcham and McDougall, Inc.: *See*—
McFadyen, Richard J. 192,667.

Keyes Fibre Co.: *See*—
Chadbourne, Gilbert R. 193,071.
Smith, Dudley H. 193,282.

Kilham, Charles O., to United Shoe Machinery Corp. Fountain brush or the like. 193,767, 10–9–62, Cl. D9—2.

Kimball, Jan. Restaurant building. 193,470, 8–28–62, Cl. D13—1.

Kimbrough, Jack H., Jr., to Ideal Fishing Float Co., Inc. Holder for ice bucker or similar article. 192,154, 1–30–62, Cl. D58—26.

Kimura, Robert Y.: *See*—
Copeland, Arnold J., Baker, and Kimura. 194,290.

Kimura, Tak. Aqua sled. 192,274, 2–20–62, Cl. D71—1.

King, Reva: *See*—
Weston, Richard E., and King. 194,103.

King, William R., to Minneapolis-Honeywell Regulator Co. Photographic projector. 193,316, 7–31–62, Cl. D61—1.

Kingsbury, Howard F., to Pittsburgh Corning Corp. Glass block. 193,391, 8–14–62, Cl. D18—2.

Kingsbury, Howard F., to Pittsburgh Corning Corp. Glass block. 193,392, 8–14–62, Cl. D18—2.

Kingswell, Percival V. F.: *See*—
Eckert, Arbel, and Kingswell. 193,826.

Kirk, Charles A., and S. B. Meadows. Advertising sign. 193,380, 8–14–62, Cl. D1—12.

Kirk, Elizabeth A. Holder for a toothpaste tube or the like. 193,499, 9–4–62, Cl. D4—3.

Kirkpatrick, Marie A., and V. J. Bukolt, Jr., to Lullabye Furniture Corp. Crib. 192,847, 5–22–62, Cl. D5—5.

Kisher, Paul F. Playground climbing device. 192,965, 6–5–62, Cl. D34—5.

Kitasako, Edwin T., to Westinghouse Electric Corp. Camera light. 193,591, 9–11–62, Cl. D61—1.

Kitco Corp.: *See*—
Thiery, George E., Werner, and Tarantino. 192,658.

Klages, John C. Stilt. 192,294, 2–27–62, Cl. D34—5.

Klamer, Reuben B., and B. Markham, to Link Research Corp. Game board. 192,147, 1–30–62, Cl. D34—5.

Kleeberg, Gunther K. E., to Infrared Industries, Inc. Modulated-light speech transmitter and receiver. 192,360, 3–13–62, Cl. D26—14.

Klein, Dietrich J. Telephone operator's turret. 194,107, 11–20–62, Cl. D26—14.

Klein, Irving. Game board. 192,471, 3–27–62, Cl. D34—5.

Klein, Irving. Game board. 192,472, 3–27–62, Cl. D34—5.

Klein, Otto A., to National Steel Corp. Anti-skid floor plate. 194,233, 12–18–62, Cl. D13—1.

Klein, Paul S., to "42" Products Ltd., Inc. Bottle rack. 193,254, 7–17–62, Cl. D58—26.

Klein, Peter M., to Natser Corp. Punch. 193,230, 7–10–62, Cl. D74—1.

Klein, Peter M., to Natser Corp. Punch. 193,231, 7–10–62, Cl. D74—1.

Klein, William H. Heel protector. 192,994, 6–12–62, Cl. D7—5.

Klepzig, Walter G., to Chambers Corp. Gas burner. 194,010, 11–6–62. Cl. D81—10.

Klier, Avis M. Feeding dish. 192,297, 2–27–62, Cl. D44—15.

Klonoski, Stephen W., and A. C. Potter, to The Torrington Mfg. Co. Fan Blade assembly. 193,643, 9–18–62, Cl. D62—4.

Knapp-Monarch Co. : *See—*
Moore, Walter E. 192,462.

Knauer, Edward P., E. W. Stevens, and M. Zurawinski, to Bell Aircraft Corp. Aircraft. 192,458, 3–20–62, Cl. D71—1.

Knedler, Earl M. Money chest. 194,241, 12–18–62, Cl. D52—4.

Knoll, David, A. Greenhaus, and H. R. Jaffe, to Berko Electric Mfg. Corp. Electric heater. 193,320, 7–31–62, Cl. D81—10.

Knowles, Beryl B., to Fairfield Optical Co. Spectacle frame. 193,029, 6–12–62, Cl. D57—1.

Knowles, Frederick G., to Eastman Kodak Co. Photographic copying apparatus. 192,105, 1–16–62, Cl. D61—1.

Knowles, John W., to Airo Shield, Inc. Splash guard or the like. 192,684, 5–1–62, Cl. D14—6.

Knox, Charles E., Jr. Service office building for filling station islands. 192,162, 2–6–62, Cl. D13—1.

Knox Instruments, Inc. : *See—*
Knox, William C., Jr., to Knox Instruments, Inc. Aerial toy. 193,245, 7–17–62, Cl. D34—15.

Kober, Karl E. : *See—*
Abend, Chester J., and Kober. 193,816.

Koch, Samuel J., and C. Ehrlich, to Pyramid Instrument Corp. Electrical recording and indicating instrument. 193,715, 10–2–62, Cl. D26—14.

Koeber, Theodore H. : *See—*
Bowman, George E., Koeber, and McGirk. 193,180.

Koenigsberg, Victor : *See—*
Douglas, Livingston C., and Koenigsberg. 193,030.

Koenigsberg, Victor. Bottle or similar article. 193,218, 7–10–62, Cl. D58—6.

Koenigsberg, Victor, to Colgate-Palmolive Co. Bottle or similar article. 194,070, 11–13–62, Cl. D58—6.

Kofsky, Melvin H., and A. E. Karp, to Cal-Cod Process Corp. Bird feeder. 192,925, 5–29–62, Cl. D31—2.

Kohler, Samuel H. : *See—*
Butler, Thomas C., and Kohler. 193,025.

Kolberg, George. Animated toy figure. 193,997, 11–6–62, Cl. D34—15.

Koller, Alois J. : *See—*
Gore, Fred M., and Koller. 193,574.

Köllisch, Bernhard. Lighter. 192,647, 4–24–62, Cl. D48—27.

Kondo, Akio, to Nihon Mishin Seizo Kabushiki Kaisha. Typewriter. 192,759, 5–8–62, Cl. D64—11.

Konecnik, Stephen E. : *See—*
Hunter, Radcliffe W., and Konecnik. 193,056.
Hunter, Radcliffe W., and Konecnik. 193,057.
Hunter, Radcliffe W., and Konecnik. 193,058.
Hunter, Radcliffe W., and Konecnik. 193,182.

Kono, Alexander. Eyeglass frame or similar article. 193,873, 10–16–62, Cl. D57—1.

Konves, Richard L. Bowling ball storage rack. 193,791, 10–9–62, Cl. D34—5.

Koons, Paul M., and C. W. Gaeke, to The National Cash Register Co. Combined accounting and sorting machine or similar article. 194,292, 12–25–62, Cl. D64—11.

Kopecky, Louis E. Combination utility yard storage shelter and above ground swimming pool. 192,413, 3–20–62, Cl. D13—1.

Kopman, Marlene. Toy helicopter vehicle. 193,567, 9–11–62, Cl. D34—15.

Kopp, Philip E. Building block. 194,209, 12–11–62, Cl. D18—2.

Korff, Walter H. Automobile. 192,634, 4–24–62, Cl. D14—3.

Kosmak, George. Charcoal burning fireplace. 194,009, 11–6–62, Cl. D81—7.

Kostanecki, Andrew T. : *See—*
Bevilacqua, Ernest M., Kostanecki, and Noyes. 193,005.
Noyes, Eliot, Bevilacqua, and Kostanecki. 194,152.

Kousoulos, Louis, Jr. : *See—*
Dabich, George. 192,082.

Kovac, Esther R. Toy sea horse. 192,170, 2–6–62, Cl. D34—2.

Kovacik, Stephen J., to Libbey-Owens-Ford Glass Co. Glass cutting tool. 192,448, 3–20–62, Cl. D54—13.

Kowalczyk, Walter. Combination bill and money file. 192,031, 1–9–62, Cl. D29—23.

Kraepelien, Hans Y., to General Telephone Co. of California. Telephone handset. 192,806, 5–15–62, Cl. D26—14.

Kraines, Maurice H., and R. L. Unkrich ; said Unkrich assor. to said Kraines. Sink divider mat. 193,088, 6–26–62, Cl. D9—6.

Kraines, Maurice H., and R. L. Unkrich ; said Unkrich assor. to said Kraines. Sink mat. 193,089, 6–26–62, Cl. D9—6.

Kraines, Maurice H., and R. L. Unkrich ; said Unkrich assor. to said Kraines. Sink liner mat. 193,090, 6–26–62, Cl. D9—6.

Kraines, Maurice H., and R. L. Unkrich ; said Unkrich assor. to said Kraines. Utility mat or similar article. 193,835, 10–16–62, Cl. D9—6.

Kraus, Charles C., to Wayne Knitting Mills. Stocking. 192,816, 5–15–62, Cl. D47—7.

Krause Corp., Inc. : *See—*
Frager, Glenn E. 192,521.

Krause, Richard F., to The Enterprise Aluminum Co. Coffee urn. 192,177, 2–6–62, Cl. D44—26.

Krauss, Carl. Exercising device. 193,010, 6–12–62, Cl. D34—5.

Kravitz, Harvey, and N. Lettvin. Scarifier. 193,600, 9–11–62, Cl. D83—12.

Krispinsky, George M., to Chrysler Corp. Automobile wheel cover. 194,101, 11–20–62, Cl. D14—30.

Krotzer, Kelvin D. : *See—*
Miller, Earl E., Krotzer, and Gallup. 192,430.
Miller, Earl E., Krotzer, and Gallup. 193,515.

Krueger, Melvin W., to Dairy Equipment Co. Tank truck. 193,424, 8–21–62, Cl. D14—3.

Krueger, Melvin W., to Dairy Equipment Co. Tank truck. 193,473, 8–28–62, Cl. D14—3.

Krueger, Theodore H. Gummed tape dispenser or similar article. 192,489, 3–27–62, Cl. D74—1.

Krueger, Theodore H. Strapping tool for pressure sensitive tape or the like. 192,977, 6–5–62, Cl. D54—13.

Kubinec, Karol. Wire basket. 192,754, 5–8–62, Cl. D58—4.

Kuchenbecker, Morris W., to American Can Co. Milk carton or the like. 193,954, 10–30–62, Cl. D58—17.

Kuehnel, Ralph J. Wedding display ornament. 192,861, 5–22–62, Cl. D29—1.

Kuhn, James O., to Bromo Mint Co. Toy musical instrument. 192,369, 3–13–62, Cl. D34—15.

Kulka, James M. Portable toilet housing unit. 192,112, 1–23–62, Cl. D13—1.

Kulka, James M. Portable toilet tank. 193,420, 8–21–62, Cl. D4—5.

Kunzman, Irving. Insert for shoes. 192,595, 4–17–62, Cl. D7—6.

Kursh, Irene O. : *See—*
Cumbus, Jerry. 193,198.

Kurtz, Cyrus B. Surface finish gauge. 192,181, 2–6–62, Cl. D52—6.

Kus, Theodore A., to Universal Form Clamp Co. Break back tool used in concrete construction work. 193,686, 9–25–62, Cl. D54—13.

Kusan Inc. : *See—*
Churchill, Warren R. 193,381.

Kusel, Edward J. Display stand for wrought iron railing. 194,082, 11–13–62, Cl. D80—9.

Kuypers, Norbert T. : *See—*
Highberger, Samuel M., and Kuypers. 193,975.

Kyser, Smith, to Mazurlo Corp. Liquid dispenser. 193,535, 9–4–62, Cl. D58—26.

Kysor Heater Co. : *See—*
Weigel, Raymond A., and Ferris. 192,912.

Laan, Dirk. Flower pot. 193,246, 7–17–62, Cl. D35—3.

Laboratory for Electronics, Inc. : *See—*
Midlock, Bernard J. 194,210.

Laboratory Furniture Co., Inc. : *See—*
Liptay, John M. 193,891.

La Branche, Harvey W., to Ekco Products Co. Pull for drawers, doors or the like. 192,959, 6–5–62, Cl. D10—8.

La Bue, Seraphina C., to Vanity Fair Mills, Inc. Foundation garment. 193,986, 11–6–62, Cl. D20—2.

La Bue, Seraphina C., to Vanity Fair Mills, Inc. Girdle. 194,034, 11–13–62, Cl. D20—2.

La Forte, Michael J., to Vaughan Mfg. Co. Electric can opener. 192,289, 2–27–62, Cl. D22—2.

Lagunoff, Rosario, to Lazarette Corsets, Inc. Girdle. 193,776, 10–9–62, Cl. D20—2.

Lake, James, Jr., to New York Plumbers' Specialties Co., Inc. Bracket for converting a portable power drive into a pipe machine. 192,188, 2–6–62, Cl. D54—13.

Laker, Francis E. Automobile. 192,683, 5–1–62, Cl. D14—3.

La Lanne Inc. : *See—*
La Lanne, Jack. 194,041.

La Lanne, Jack, to La Lanne Inc. Physical conditioning device for facial muscles. 194,041, 11–13–62, Cl. D34—5.

Lamar, Mirabeau B. Fish lure. 192,862, 5–22–62, Cl. D21—1.

Lamb, Joe H., to P. A. Mallinckrodt. Extruded coping strip for swimming pools. 193,055, 6–19–62, Cl. D13—6.

Lambert, Jesse J., to I. A. Moon, Jr., and P. B. Martin. Clamp for concrete forms or the like. 193,355, 8–7–62, Cl. D51—1.

Lambert, Robert M. Container for plant roots or the like. 192,486, 2–27–62, Cl. D58—17.

La Mere Industries, Inc. : *See—*
Frankel, Donald P. 193,325.

Landell, Harper, and C. F. Molzen, to Speakman Co. Combined faucet handle and escutcheon or similar article. 194,229, 12–11–62, Cl. D91—3.

Landers, Frary & Clark : *See—*
Schwartz, Ira W. 193,988.

Landry, Donald E. : *See—*
Heininger, Oskar, and Landry. 193,616.

Lane, J. D. Drive-in canopy. 192,723, 5–8–62, Cl. D13—1.

Lane, Ronald W. : *See—*
Jensen, George B., Lane, and Parker. 194,031.

Lang, Vincent F., to Eastman Kodak Co. Camera carrying case. 192,155, 1–30–62, Cl. D87—5.

Langham, Shirley B. Paddle for patting the skin to stimulate circulation. 193,824, 10–9–62, Cl. D83—1.

Langhjelm, Henrik, and M. Ferar, to Whirlpool Corp. Control panel for a laundry machine. 192,747, 5–8–62, Cl. D49—1.

Lappin, Kenneth R. : *See—*
Maurer, John A., and Lappin. 192,246.

La Reis, Joseph. Combined toothpaste dispenser, glass holder and bathroom cabinet. 193,133, 7–3–62, Cl. D4—3.

Larsen, Andrew C. Spoon or similar article. 193,018, 6–12–62, Cl. D44—29.
Larsen, Ben H. Can carton. 192,891, 5–22–62, Cl. D58—26.
Larsen, Raymond B., to Uptime Corp. Card reading machine. 192,359, 3–13–62, Cl. D26—5.
Larson, Clayton E. Ladder. 193,000, 6–12–62, Cl. D15—8.
Larson, Orville W., to General Electric Co. Griddle. 194,271, 12–25–62, Cl. D44—1.
Lasker, Martin, to McPhilben Lighting Inc. Post lamp. 192,125, 1–23–62, Cl. D48—31.
Lassonde, Raoul L. Hand swimming flipper. 193,455, 8–21–62, Cl. D71—1.
Latham, Richard S., to Ekco Products Co. Cutlery holder. 192,330, 3–6–62, Cl. D44—29.
Lathe, Robert R., to Cockshutt Farm Equipment Ltd. Separator hood for a combine. 192,091, 1–16–62, Cl. D40—1.
Lathe, Robert R., to Cockshutt Farm Equipment Ltd. Combine. 193,062, 6–19–62, Cl. D40—1.
Laudano, Edwin C., to Thatcher Glass Mfg. Co., Inc. Bottle. 192,535, 4–3–62, Cl. D58—5.
Laudano, Edwin C., to Thatcher Glass Mfg. Co., Inc. Bottle. 192,536, 4–3–62, Cl. D58—5.
Laudano, Edwin C., to Thatcher Glass Mfg. Co., Inc. Bottle. 193,216, 7–10–62, Cl. D58—5.
Laughlin, Clayton A., to Arthur Salm, Inc. Bowl. 192,375. 3–13–62, Cl. D44—15.
Lauterbach, Norman E., to Wilmot Castle Co. Instrument panel for a sterilizer. 194,173, 11–27–62, Cl. D83—12.
Lawrence, Richard B.: *See*—
Dreyfuss, Henry, Pendleton, and Lawrence. 193,004.
Lawson, Frank W. Belt. 193,969, 11–6–62, Cl. D3—10.
Lawton, Verner H. Ironing board for pressing points of a garment. 192,936, 5–29–62, Cl. D49—1.
Lay, Ralph B., to Hamilton Cosco, Inc. Infant's walker. 194,146, 11–27–62, Cl. D104—14.
Layton, J. C., and C. A. Tucker, to Towlsaver, Inc. Towel dispenser cabinet. 192,722, 5–8–62, Cl. D4—3.
Layton, J. C., and C. A. Tucker, to Towlsaver, Inc. Dispenser for towels. 193,870, 10–16–62, Cl. D52—2.
Lea, Melvin A., to Oneida Ltd. Spoon or similar article. 192,051, 1–9–62, Cl. D54—12.
Leavy, Natalie, to Decorative Fabrics Co. Inc. Flocked textile fabric. 192,021, 1–2–62, Cl. D92—1.
Leavy, Natalie, to Decorative Fabrics Co. Inc. Flocked textile fabric. 192,313, 2–27–62, Cl. D92—1.
Leavy, Natalie, to Decorative Fabrics Co. Inc. Flocked textile fabric. 192,780, 5–8–62, Cl. D92—1.
Leavy, Natalie, to Decorative Fabrics Co. Inc. Flocked textile fabric. 192,908, 5–22–62, Cl. D92—1.
Leavy, Natalie, to Decorative Fabrics Co. Inc. Flocked textile fabric. 193,081, 6–19–62, Cl. D92—1.
Le Baron, Rolla P. Candlestick holder. 192,259, 2–20–62, Cl. D48—2.
Lebidine, Nina A. Child's chair. 193,337, 8–7–62, Cl. D15—1.
Lebourg, Maurice P., to Schlumberger Well Surveying Corp. Shaped charge gun for well casings or the like. 193,555, 9–11–62, Cl. D30—1.
Lebourg, Maurice P., to Schlumberger Well Surveying Corp. Shaped charge gun for well casings or the like. 193,556, 9–11–62, Cl. D30—1.
Lebourg, Maurice P., to Schlumberger Well Surveying Corp. Shaped charge gun for well casings or the like. 193,557, 9–11–62, Cl. D30—1.
Lechat, Jean J., to Manufacture Belge D'Aiguilles. Packaging container for needles or the like. 193,740, 10–2–62, Cl. D58—12.6.
Lee, James H.: *See*—
Wolf, Bern E., and Lee. 192,299.
Wolf, Bern E., and Lee. 192,871.
Lee Rubber & Tire Corp.: *See*—
Wyman, Charles G., and Dunlap. 194,203.
Leek, Wayne E.: *See*—
Kelly, Robert P., Leek, and Martin. 193,483.
Leep, Myles W., Jr., to Wm. F. Zummach, Inc. Paint color display cabinet. 192,400, 3–13–62, Cl. D80—11.
Leete, Harley M.: *See*—
Ribbens, Jacob J., Leete, and Foote. 192,085.
Leger, Ray E., to The Power Cat Boat Corp. Boat. 193,041, 6–12–62, Cl. D71—1.
Lehrer, Stanley, to Thiokol Chemical Corp. Missile booster. 193,644, 9–18–62, Cl. D71—1.
Leichter, Newton: *See*—
Caminker, Bernard, and Leichter. 193,385.
Caminker, Bernard, and Leichter. 193,545.
Leisenring, Arthur E. Machine for comminuting soap cakes. 192,019, 1–2–62, Cl. D55—1.
Leitz, Ernst, Gesellschaft mit beschrankter Haftung: *See*—
Mees, Robert, and Janke. 193,878.
Leman, Donald E., to Sunbeam Corp. Electric shaver. 192,423, 3–20–62, Cl. D22—3.
Le Mere, Gladys B. Towel hanger. 193,651, 9–25–62, Cl. D4—3.
Lenze KG. Lichttechnische Spezialfabrik: *See*—
Müller, Josef. 192,878.
Leonardo, Ignazio, to The Thomas & Betts Co. Cable bending tool. 193,685, 9–25–62, Cl. D54—13.
Leopoldi, Norbert. Nail clipper. 192,590, 4–10–62, Cl. D86—10.
Lerner, George: *See*—
Smolen, Benjamin E., and Lerner. 193,224.
Lerner, Lawrence, to Michael Saphier Associates, Inc. Heating tray. 192,671, 4–24–62, Cl. D81—10.
Lerner, Lawrence, to Michael Saphier Associates, Inc. Heating tray. 192,776, 5–8–62, Cl. D81—10.
Lerner, Lawrence, to Michael Saphier Associates, Inc. Counter top cooking unit. 193,963, 10–30–62, Cl. D81—25.
Lerner, Lawrence, to Suit-O-Mat Corp. Shopping cart. 194,028, 11–13–62, Cl. D14—3.
Lessner, Marcus S., to Utica Communications Corp. Radiotelephone. 193,344, 8–7–62, Cl. D26—14.
Lettvin, Norman: *See*—
Kravitz, Harvey, and Lettvin. 193,600.
Le Veille, Philip E., and M. H. Kelly, to Lockheed Aircraft Corp. Airplane. 193,161, 7–3–62, Cl. D71—1.
Levenhagen, Alvin W., to Molded Fiber Glass Tray Co. Serving tray unit. 193,487, 8–28–62, Cl. D44—10.
Lever Brothers Co.: *See*—
Abbott, Horace P. 194,076.
Morgan, Fred F. 193,738.
Riley, Eileen, and Clarke. 194,165.
Levi, Ralph, to Imperial International Corp. Hibachi or similar article. 193,163, 7–3–62, Cl. D81—10.
Levin, Benjamin. Finger for a chicken plucking machine. 192,441, 3–20–62, Cl. D11—1.
Levine, Beth. Shoe. 193,087, 6–26–62, Cl. D7—7.
Levkoff, Henry S. Packaging tray for tomatoes or the like. 192,888, 5–22–62, Cl. D58—12.6.
Lewer, Eric H., to Alfred Imhof, Ltd. Internal corner connector for a metal cabinet. 192,613, 4–17–62, Cl. D54—1.
Lewer, Eric H., to Alfred Imhof Ltd. Internal spacer bar connector for a metal cabinet 192,650, 4–24–62, Cl. D54—1.
Lewis, Benjamin. Refrigerated display case for dispensing frozen foods. 193,750, 10–2–62, Cl. D80—11.
Lewis, Earl R., to Monarch Laboratories, Inc. Deodorizer cabinet. 193,930, 10–30–62, Cl. D16—2.
Libbey-Owens-Ford Glass Co.: *See*—
Kovacik, Stephen J. 192,448.
Liebenberg, Jacob J., to Prince Ice Cream Castles, Inc. Store for dispensing food. 193,469, 8–28–62, Cl. D13—1.
Life-Like Products, Inc.: *See*—
Meyer, Gerson. 192,538.
Liftin, Robert, and A. C. Denson, to Regent Electronic Development Co. Inc. Television antenna. 193,142, 7–3–62, Cl. D26—14.
Light, Henri. Hair curler. 192,903, 5–22–62, Cl. D86—10.
Lighter Corp. of America, The: *See*—
Britton, Ernest C. 193,477.
Lightoller Inc.: *See*—
Blitzer, William F. 193,575.
Thurston, Gerald E. 193,354.
Lili, Inc.: *See*—
Goldman, Robert and L. 192,040.
Goldman, Robert and L. 193,155.
Goldman, Robert and L. 193,241.
Goldman, Robert and L. 193,433.
Goldman, Robert and L. 193,670.
Goldman, Robert, and L. 193,845.
Goldman, Robert, and L. 194,267.
Lilling, Henry, to Ultra-Chemical Works, Inc. Bottle. 194,286, 12–25–62, Cl. D58—6.
Lince, Arthur H.: *See*—
Hose, Robert H., and Lince. 193,481.
Lince, Henrietta A.: *See*—
Hose, Robert H., and Lince. 193,481.
Lincoln Metal Products Corp.: *See*—
Saphier, Michael. 194,272.
Saphier, Michael. 194,273.
Saphier, Michael. 194,274.
Saphier, Michael. 194,275.
Saphier, Michael. 194,276.
Saphier, Michael. 194,278.
Lindsay, Paul M. House. 192,629, 4–24–62, Cl. D13—1.
Linger, Harrison K., to General Electric Co. Dishwasher. 192,178, 2–6–62, Cl. D49—1.
Link Research Corp.: *See*—
Klamer, Reuben B., and Markham. 192,147.
Lionel Corp., The: *See*—
Van Dyck, Kenneth. 194,198.
Lipare, Frank. Shoe or similar article. 193,465, 8–28–62, Cl. D7—7.
Lipschutz, Sidney, and E. H. Barnett, to Chemical Sales, Inc. Tap for packaged liquid. 194,168, 11–27–62, Cl. D58—26.
Liptay, John M., to Laboratory Furniture Co., Inc. Laboratory steam heaters for flasks or the like. 193,891, 10–23–62, Cl. D16—2.
Little, William T. Service station unit. 194,095, 11–20–62, Cl. D13—1.
Lockheed Aircraft Corp.: *See*—
Flock, Arthur E., Jr. 193,123.
Johnson, Francis B. 193,229.
Le Veille, Philip E., and Kelly. 193,161.
Statler, William H. 193,368.
Statler, William H., Hoben, and Burton. 193,073.
Loertz, Albert F., Jr. Combined knife, fork and spoon. 192,970, 5–8–62, Cl. D44—29.
Lohmeyer, Walter G., to De Jur-Amsco Corp. Camera. 193,036, 6–12–62, Cl. D61—1.
Lohn, Edwin E. Gear shift handle for automobiles. 194,030, 11–13–62, Cl. D14—6.
Loma Industries: *See*—
Bloch, Jack. 192,813.
Bloch, Jack. 192,934.
Bloch, Jack. 193,909.
Bloch, Jack. 194,217.

Lombardi, Leo. Movable table for a game board. 193,564, 9–11–62, Cl. D34—5.
Long, Homer G. Wall plaque. 193,620, 9–18–62, Cl. D29—23.
Longo, Anthony, to U-Need-Em Specialty Co., Inc. Baby shoe. 192,209, 2–13–62, Cl. D7—7.
Lonker, Arthur, to Curley Co., Inc. Bottle. 192,755, 5–8–62, Cl. D58—8.
Lorenzen, Arnold I. Jar or similar article. 193,491, 8–28–62, Cl. D58—25.
Lo Turco, Raymond A., to Chris-Craft Corp. Deck hatch for boats. 193,697, 9–25–62, Cl. D71—1.
Love, William D., Jr. Portable duster for insecticides or the like. 192,600, 4–17–62, Cl. D31—3.
Love, William D., Jr. Portable spreader for seeds, fertilizer pellets and the like. 192,601, 4–17–62, Cl. D31—3.
Lovejoy, Charles K., to Scripto, Inc. Writing instrument. 194,295, 12–25–62, Cl. D74—17.
Lovejoy, Charles K., to Scripto, Inc. Writing instrument. 194,296, 12–25–62, Cl. D74—17.
Lovejoy, Charles K., and F. H. Stephens, Jr. Merchandising display stand for writing instruments and the like. 192,899, 5–22–62, Cl. D80—9.
Lovell Mfg. Co.: *See*—
Seigel, Lawrence G., and Stasenko. 193,027.
Lowe, Donald B., to Airguide Instrument Co. Casing for a weather instrument or similar article. 192,480, 3–27–62, Cl. D52—7.
Lowe, Frederick K.: *See*—
Smith, Marion J. E., and Lowe. 192,674.
Lowe, Richard G.: *See*—
Fornell, Bertil S., and Lowe. 193,225.
Lower, James C., R. J. Johnson, and P. D. Sanborn. Holder for cleansing liquid container and applicator or the like. 192,392, 3–13–62, Cl. D38—26.
Lowrey, Ernest E. Boat. 192,713, 5–1–62, Cl. D71—1.
Lucken, John M., and R. R. Clemmer, to Remembrance Memorials, Inc. Memorial grave marker. 193,078, 6–19–62, Cl. D79—2.
Lucky Wish Products, Inc.: *See*—
Wish, Henry. 193,689.
Luger, Ormond L. and R. J. Houseboat. 192,197, 2–6–62, Cl. D71—1.
Luger, Ormond L. and R. J. Houseboat. 193,817, 10–9–62, Cl. D71—1.
Luger, Rennold J.: *See*—
Luger, Ormond L. and R. J. 192,197.
Luger, Ormond L. and R. J. 193,817.
Lullabye Furniture Corp.: *See*—
Kirkpatrick, Marie A., and Bukolt. 192,847.
Lund, Herbert T.: *See*—
Harned, Malcolm S., and Lund. 193,290.
Lung, Kenneth R. Submersible sump pump. 194,250, 12–18–62, Cl. D65—1.
Luttrell, Raymond V. Underground shelter enclosure. 194,144, 12–27–62, Cl. D13—1.
Lyon, George A., Jr. Two bowl sink or similar article. 192,493, 4–3–62, Cl. D4—2.
Lyon & Healy, Inc.: *See*—
Pratt, Samuel O. 193,360.
Lyon Metal Products, Inc.: *See*—
Meidell, Elmer T. 193,178.
M. T. & D. Co., The: *See*—
Hoffman, Harald R. 193,673.
MacFarlane, Carolyn H. Voice reflector. 193,343, 8–7–62, Cl. D25—1.
Macgregor Sport Products, Inc.: *See*—
Penna, Toney. 192,366.
Machlett Laboratories, Inc., The: *See*—
Noyes, Eliot F., and Bevilacqua. 192,167.
Machovec, Fred J. Carriage supported batch mixer. 192,102, 1–16–62, Cl. D55—5.
Mack Trucks, Inc.: *See*—
Rutman, Ralph G. 193,330.
Rutman, Ralph G., and Warmkessel. 193,179.
MacPanel Co.: *See*—
Oakes, Charles D., and Harris. 192,083.
MacPlum, R. A., Industries, Inc.: *See*—
Umanoff, Martin. 193,117.
Madeira, William T., to K-D Mfg. Co. Shock absorber wrench. 192,653, 4–24–62, Cl. D54—16.
Madeira, William T., to K-D Mfg. Co. Combination hose-clamp pliers and tube cutter. 192,750, 5–8–62, Cl. D54—13.
Madl, Alfred W., to John Oster Mfg. Co. Handle assembly for covered frypan or the like. 192,258, 2–20–62, Cl. D14—29.
Madl, Alfred W., to John Oster Mfg. Co. Combined room humidifier and medicinal vaporizer or the like. 192,718, 5–1–62, Cl. D83—1.
Madl, Alfred W., to John Oster Mfg. Co. Electric hair clipper. 193,848, 10–16–62, Cl. D22—5.
Magri, Salvatore J. Water-craft. 192,948, 5–29–62, Cl. D71—1.
Maidenform, Inc.: *See*—
Kaupp, Bette K. 192,504.
Maier, Michael W., to Malleable Iron Range Co. Cooking range. 192,717, 5–1–62, Cl. D81—4.
Malesky, Edward F., to Glar-Ban Corp. Illuminable telephone dial attachment. 194,236, 12–18–62, Cl. D26—14.
Malleable Iron Range Co.: *See*—
Maier, Michael W. 192,717.

Mallinckrodt, Philip A.: *See*—
Lamb, Joe H. 193,055.
Mallory, Stanley R., Jr. Container for a room deodorant diffuser or the like. 193,875, 10–16–62, Cl. D58—9.
Malsed, Helen H. Pull toy. 192,867, 5–22–62, Cl. D34—15.
Mandel, Max, Laces, Inc.: *See*—
Palmer, Gordon O. 192,781.
Manderfield, Ellen, to Oneida Ltd. Spoon or similar article. 192,702, 5–1–62, Cl. D54—12.
Manderfield, Ellen, to Oneida Ltd. Spoon or similar article. 193,810, 10–9–62, Cl. D54—12.
Manderfield, Ellen B., to Oneida Ltd. Spoon or similar article. 192,049, 1–9–62, Cl. D54—12.
Mangini, John, and R. G. Reed, to Clairol Inc. Dual compartment bottle. 192,980, 6–5–62, Cl. D58—6.
Mangold, Harry C., to Wayne Knitting Mills. Stocking. 193,801, 10–9–62, Cl. D47—7.
Mangold, Mila. Bottle carrier. 193,314, 7–31–62, Cl. D58—26.
Mankin, Paul A.: *See*—
Bateman, Coates F., Mankin, Copony, Smith, and Monigle. 192,817.
Bateman, Coates F., Mankin, Copony, Smith, and Monigle. 192,818.
Bateman, Coates F., Mankin, Copony, Smith, and Monigle. 192,819.
Mann, Ralph. Holder for cigars. 194,088, 11–13–62, Cl. D85—8.
Manoogian, George: *See*—
Ross, Arthur, and Manoogian. 193,922.
Manton-Gaulin Mfg. Co., Inc.: *See*—
Beck, Harold C., and Kensley. 193,300.
Manufacture Belge D'Aiguilles: *See*—
Lechat, Jean J. 193,740.
Manville, Charles J., to Manville Mfg. Corp. Casing for a sink attached dish washer unit. 194,141, 11–20–62, Cl. D91—3.
Manville Mfg. Corp.: *See*—
Manville, Charles J. 194,141.
Maratta, James, to Physio-Health, Inc. Exercising machine. 193,437, 8–21–62, Cl. D34—5.
Marble, B. L., Furniture Inc.: *See*—
Sullivan, William H. 192,419.
Sullivan, William H. 193,094.
Marcoux, Leo, to Texas Instruments Inc. Electrical switch or similar article. 193,184, 7–10–62, Cl. D26—13.
Marcus, Marvin, to The Superior Provision Co. Condiment dispenser. 192,376, 3–13–62, Cl. D44—22.
Mariani, Frank. Ashtray. 192,719, 5–1–62, Cl. D85—2.
Mariani, Frank. Ashtray. 192,844, 5–15–62, Cl. D85—2.
Marik, Vernon J.: *See*—
Moss, John L., and Marik. 192,841.
Marin, Mario J., and J. C. Schulte. Punched card data processor. 194,186, 12–4–62, Cl. D26—5.
Marinelli, Velia. Dress. 192,022, 1–9–62, Cl. D3—26.
Marioness & Co., Inc.: *See*—
Smith, Marion J. E., and Lowe. 192,674.
Markham, Bill: *See*—
Klamer, Reuben B., and Markham. 192,147.
Marlow, Frank J. Photocopy machine. 194,133, 11–20–62, Cl. D61—14.
Marriott, David F., and L. T. Carter, to Brandex, Inc. Reel for line casting. 193,144, 7–3–62, Cl. D31—4.
Marsh, G. T., & Co.: *See*—
Marsh, Lucien A. 193,441.
Marsh, Lucien A., to G. T. Marsh & Co. Holder for cocktail olives and the like. 193,441, 8–21–62, Cl. D44—29.
Marsh, Robert E.: *See*—
Gorman, Richard G., and Marsh. 193,077.
Marshall, James W.: *See*—
Newman, James F., and Marshall. 194,012.
Marson, Jimmie. Yard light. 193,205, 7–10–62, Cl. D48—24.
Martl, Frederic, and G. Braunschweig. Clock. 193,017, 6–12–62, Cl. D42—7.
Martin Bros. Electric Co., The: *See*—
Martin, George H. 192,420.
Martin, Frederick H. Heater casing. 192,952, 5–29–62, Cl. D81—10.
Martin, George H., to The Martin Bros. Electric Co. Combined hair dryer and chair. 192,420, 3–20–62, Cl. D15—8.
Martin, Harold B., and D. P. Schwester. Crimping tool. 192,940, 5–29–62, Cl. D54—13.
Martin, James S.: *See*—
Kelly, Robert P., Leek, and Martin. 193,483.
Martin, Millard M. Top for the bed of a pickup truck. 193,136, 7–3–62, Cl. D14—27.
Martin, Philipp B.: *See*—
Chambers, Jesse J. 193,355.
Marvosh, Daniel. Hand exerciser. 192,367, 3–13–62, Cl. D34—5.
Marvosh, Daniel. Automobile top. 192,729, 5–8–62, Cl. D14—27.
Marx, Frederick, Sr. Iron holder. 192,609, 4–17–62, Cl. D49—6.
Marx, Louis, & Co., Inc.: *See*—
Campbell, Laurie J. 194,216.
Mascaro, Thomas C. Power lawn mower. 192,372, 3–13–62, Cl. D40—1.
Mascaro, Thomas C. Power lawn mower. 192,373, 3–13–62, Cl. D40—1.
Mascaro, Thomas C. Lawn mower for golf course greens or the like. 192,475, 3–27–62, Cl. D40—1.

Mascaro, Thomas C. Power lawn mower. 192,605, 4–17–62, Cl. D40—1.
Mashigian, Charles, to Chrysler Corp. Automobile wheel cover. 194,100, 11–20–62, Cl. D14—30.
Mason, Clement E., to Besser Co. Building block. 192,288, 2–27–62, Cl. D18—2.
Mason, Ernest G. Seating unit. 193,001, 6–12–62, Cl. D15—8.
Mason, Ernest G. Chair. 193,847, 10–16–62, Cl. D15—8.
Massa, Erwin T., and C. J. Imbrie, to Contractors' Components Inc. Decorative fence. 192,507, 4–3–62, Cl. D28—1.
Massarella, Richard S.: *See*—
Eytel, Robert H., and Massarella. 192,918.
Massarella, Richard S., to Sperry Rand Corp. Magnetic tape recorder. 192,425, 3–20–62, Cl. D26—5.
Massarella, Richard S. Card punching unit. 192,563, 4–10–62, Cl. D26—5.
Massey, Mary A. Toy sea horse. 193,622, 9–18–62, Cl. D34—2.
Masterson, Douglas J.: *See*—
Masterson, M. D. and D. J. 193,049.
Masterson, Manuel D. and D. J. Motorcycle combination radio and glove compartment cabinet. 193,049, 6–12–62, Cl. D90—3.
Mathews Conveyer Co.: *See*—
Winfield, Herbert S. 192,127.
Matricardi, Shirley L. Educational clock toy. 193,659, 9–25–62, Cl. D25—1.
Matson, Robert P. Pneumatic jack. 193,520, 9–4–62, Cl. D41—1.
Matson, Torsti O., to Foster Grant Co., Inc. Jug. 194,073, 11–13–62, Cl. D58—17.
Maul, Jan A., and J. J. Van Acker, to Addressograph-Multigraph Corp. Printing machine. 193,743, 10–2–62, Cl. D64—11.
Maurer, Carl M., to Kartonax G.m.b.H. Miniature golf game board. 194,187, 12–4–62, Cl. D34—5.
Maurer, John A., and K. R. Lappin, to The Weber Dental Mfg. Co. Dental syringe. 192,246, 2–20–62, Cl. D24—1.
Mawhinney, Raymond J.: *See*—
Di Domenico, Frank. 193,876.
Maxwell, Raymond H. Bull fighter toy. 192,691, 5–1–62, Cl. D34—15.
Mazurdo Corp.: *See*—
Kyser, Smith. 193,535.
McBee Co. Ltd., The: *See*—
Hoff, Wally C., and Somerville. 192,396.
McClellan, Stephen A., and I. O. Fieldgate, to Specialties, Inc. Aircraft instrument. 192,444, 3–20–62, Cl. D52—6.
McClenahan, William F. Comfort station. 193,928, 10–30–62, Cl. D13—1.
McCormick, Walter S., Jr., D. D. Stenabaugh, and A. E. Thompson, to International Business Machines Corp. Card reader. 192,802, 5–15–62, Cl. D26—5.
McCoy, Frank T., Jr., to Garden Centers, Inc. Garden center building. 194,206, 12–11–62, Cl. D13—1.
McCrackin, Otho E., to United States of America, Navy. Guided missile. 193,317, 7–31–62, Cl. D71—1.
McCrady, Harry E., and A. I. Countryman, to The Snow-Nabstedt Gear Corp. Golf car or the like. 192,997, 6–12–62, Cl. D14—3.
McCray Refrigerator Co., Inc.: *See*—
Bently, George K., and Crowl. 194,135.
McCutcheon, George H.: *See*—
Forsman, Fred O., and McCutcheon. 192,218.
McDonald Products Corp.: *See*—
Davis, William L., and Vevirit. 192,778.
McDonald, Ward A. Portable tank unit for draining, storing and dispensing gasoline or the like. 193,110, 6–26–62, Cl. D52—2.
McElroy, Alfred P., and T. F. Seay. Floor receiver for folding doors. 192,849, 5–22–62, Cl. D10—7.
McElroy, David C., to The Seeburg Corp. Combined beverage dispenser and warmer. 192,594, 4–17–62, Cl. D2—3.
McFadyen, Richard J., to Ketcham and McDougall, Inc. Support for a telephone hand set and memo pad. 192,667, 4–24–62, Cl. D74—1.
McGee, Joseph S., G. J. Miron, and M. E. A. Pitt, to Modenco of Canada Ltd. Mobile service station. 192,026, 1–9–62, Cl. D13—1.
McGeehan, Cornelius J. Combined shower head accessory bar and soap holder. 193,500, 9–4–62, Cl. D4—3.
McGirk, James R.: *See*—
Bowman, George E., Koeber, and McGirk. 193,180.
McGlaughlin, James S. Pouring spout for sprinkler cans. 193,877, 10–16–62, Cl. D58—17.
McGranaghan, Jerome P. Club head for golf putter or the like. 193,399, 8–14–62, Cl. D34—5.
McGraw-Edison Co.: *See*—
Curtis, Paul J., Smith, and Rodriguez. 192,381.
De Fano, Dominic J. 193,599.
McIntosh, Lawrie G., to Rotor Electric Co. Ltd. Hot air blower for hairdrying apparatus. 192,626, 4–17–62, Cl. D86—10.
McKee, Dale W., and R. E. Greenman, to Clark Equipment Co. Lift truck. 192,415, 3–20–62, Cl. D14—3.
McKee, George W. Key ring. 192,856, 5–22–62, Cl. D17—14.
McKnight, Robert J., to O. Musgrave. Vacuum cleaner casing. 192,024, 1–9–62, Cl. D9—2.
McLeod, Charles A. Cake server. 192,018, 1–2–62, Cl. D44—29.
McLeod, Charles A., to Evans Products Co. Chain guard and fender brace combination for a bicycle or the like. 192,339, 3–6–62, Cl. D90—5.
McManus, Julian W. Monkey wrench. 192,126, 1–23–62, Cl. D54—16.
McMasters, Robert A., to Southeastern Metals Co. Wire coil carrier. 192,189, 2–6–62, Cl. D58—5.
McMenemy, William S., to Countess Mara, Inc. Jewelry display case. 194,084, 11–13–62, Cl. D80—11.
McMenemy, William S., to Countess Mara, Inc. Cuff link. 194,147, 11–27–62, Cl. D17—7.
McNeil, Ramon R. Ceiling tile. 192,733, 5–8–62, Cl. D18—2.
McNew, Elizabeth A. Sun shield or similar article. 193,235, 7–10–62, Cl. D88—3.
McPhail, Kenneth J. Vending machine stand. 193,258, 7–17–62, Cl. D80—9.
McPhee, Richard M.: *See*—
Dabich, George. 192,082.
McPhilben Lighting Inc.: *See*—
Lasker, Martin. 192,125.
Meadows, Samuel B.: *See*—
Kirk, Claude R., and Meadows. 193,380.
Meers, Fred W., Heel Co., Inc.: *See*—
Joiner, Edgar E. 192,409.
Mees, Robert, and H. Janke, to Ernst Leitz Gesellschaft mit beschrankter Haftung. Motion picture projector. 193,878, 10–16–62, Cl. D61—1.
Meidell, Elmer T., to Lyon Metal Products, Inc. Combined locker handle and latch actuating unit. 193,178, 7–10–62, Cl. D10—8.
Meislin, Adele: *See*—
Tiso, Frank. 192,135.
Tiso, Frank. 192,136.
Meislin, Jira: *See*—
Tiso, Frank. 192,135.
Tiso, Frank. 192,136.
Meislin, Nathan: *See*—
Tiso, Frank. 192,135.
Tiso, Frank. 192,136.
Meislin, Paul: *See*—
Tiso, Frank. 192,135.
Tiso, Frank. 192,136.
Mell, Jack R., to Automatic Canteen Co. of America. Phonograph cabinet. 192,483, 3–27–62, Cl. D56—4.
Mell, Jack R., to Automatic Canteen Co. of America. Phonograph cabinet. 192,484, 3–27–62, Cl. D56—4.
Melton, Charles C. Movie film viewer. 192,828, 5–15–62, Cl. D61—1.
Memo Minder Corp.: *See*—
Bishop, William. 194,008.
Menary, Robert F., and J. Firych, to Paulmar, Inc. Film inspecting machine. 193,283, 7–24–62, Cl. D61—1.
Mendez, Charles E., to Redwing Carriers, Inc. Tank trailer. 193,294, 7–31–62, Cl. D14—3.
Mengel, John P. Lounge chair. 192,855, 5–22–62, Cl. D15—11.
Mercorelli, Pasquale A. Desk sign or similar article. 194,090, 11–20–62, Cl. D1—12.
Mercure, Le Grand J. Building block. 193,478, 8–28–62, Cl. D18—2.
Merserau, Everard C. Hand hold. 193,367, 8–7–62, Cl. D66—2.
Mertens, John R., to Bell Aerospace Corp. Aircraft. 193,370, 8–7–62, Cl. D71—1.
Messinger, Abraham, to Vylyt Corp. Sole for a boot or similar article of footwear. 192,023, 1–9–62, Cl. D7—5.
Messinger, Abraham, to Vylyt Corp. Sole for a boot or similar article of footwear. 192,285, 2–27–62, Cl. D7—5.
Messinger, Abraham, to Vylyt Corp. Sole for a boot or similar article of footwear. 192,553, 4–10–62, Cl. D7—5.
Messinger, Abraham, to Vylyt Corp. Sole for a boot or similar footwear article. 192,956, 6–5–62, Cl. D7—5.
Messinger, Abraham, to Vylyt Corp. Sole for boot or similar footwear article. 192,957, 6–5–62, Cl. D7—5.
Metalart Co., The: *See*—
Kelman, Samuel E. 192,108.
Metalastik Ltd.: *See*—
Horovitz, Marcus. 193,780.
Metallwarenfabrik Meyer & Niss GmbH.: *See*—
Hoffmann-Igl, Ernst. 192,549.
Mettler, Erhard: *See*—
Kern, Paul. 192,612.
Metzler, Charles L., J. D. Wark, and L. B. Bernstein. Display case for safety razor and blades. 194,288, 12–25–62, Cl. D58—12.6.
Mewes, Julia E.: *See*—
Bedient, Lorena G., and Mewes. 192,204.
Bedient, Lorena G., and Mewes. 193,419.
Mexico Forge, Inc., The: *See*—
Haubert, Wayne. 192,224.
Haubert, Wayne. 192,638.
Kennedy, William T., Jr., and Haubert. 193,273.
Meyer, Carl W. Holder for a telephone book. 192,277, 2–20–62, Cl. D74—9.
Meyer, Carl W. Holder for a telephone book. 192,278, 2–20–62, Cl. D74—9.
Meyer, Carl X., and W. R. Garnett, to Day-Brite Lighting, Inc. Lighting fixture. 192,876, 5–22–62, Cl. D48—6.
Meyer, Emanuel. Foor mat for automobiles and the like. 192,681, 5–1–62, Cl. D9—6.
Meyer, Frances S.: *See*—
Meyer, Peter R. and F. S. 193,919.
Meyer, Gerson, to Life-Like Products, Inc. Thermally insulated box. 192,538, 4–3–62, Cl. D58—17.

Meyer, Peter R. and F. S. Support for garment hangers. 193,919, 10–23–62, Cl. D80—8.
Meyerson, Stanley. Watch band or the like. 192,971, 6–5–62, Cl. D45—4.
Meyerson, Stanley. Watch band or the like. 192,972, 6–5–62, Cl. D45—4.
Meyerson, Stanley. Expansible link chain for a bracelet or the like. 193,065, 6–19–62, Cl. D45—4.
Meyerson, Stanley. Expansible link chain for a bracelet or the like. 193,352, 8–7–62, Cl. D45—4.
Meyerson, Stanley. Expansible link chain for a bracelet or the like. 193,525, 9–4–62, Cl. D45—4.
Michals, Theodore T. Telephone call indicator. 192,247, 2–20–62, Cl. D26—14.
Michaud, Albert J., to Sylvania Electric Products Inc. Fluorescent lighting fixture. 192,124, 1–23–62, Cl. D48—23.
Michaud, Donald A., 49% to G. A. Dutil, Jr. Comb and hairpin holder. 193,647, 9–18–62, Cl. D86—10.
Michigan Brass Co.: *See*—
Harty, Millard F., Jr. 193,827.
Harty, Millard F., Jr. 193,923.
Harty, Millard F., Jr. 193,924.
Middlemark, Marvin P. Television antenna. 192,362, 3–13–62, Cl. D26—14.
Middlemark, Marvin P. Television antenna. 192,687, 5–1–62, Cl. D26—14.
Midland-Ross Corp.: *See*—
Jacobs, Robert J. 193,310.
Midlock, Bernard J., to Laboratory for Electronics, Inc. Transmitter-receiver casing or similar article. 194,210, 12–11–62, Cl. D26—1.
Milette, Kenneth A., to Mission-West Mfg. Co. Gate valve. 192,896, 5–22–62, Cl. D78—1.
Milette, Kenneth A., to Mission-West Mfg. Co. Combined gate valve and coupling therefor. 192,897, 5–22–62, Cl. D78—1.
Miltie, George, to C. Fischett. Necktie rack or similar article. 193,272, 7–24–62, Cl. D33—8.
Miller, Albert J., Jr. Vehicle for vending ice cream or the like. 193,611, 9–18–62, Cl. D14—3.
Miller, Alvin A., to Wescos Plastics, Inc. Jug. 194,285, 12–25–62, Cl. D58—5.
Miller Co., The: *See*—
Pascucci, Julio, and Jones. 192,646.
Miller, Earl E., K. D. Krotzer, and R. L. Gallup, to James Heddon's Sons. Spinning reel. 192,430, 3–20–62, Cl. D31—4.
Miller, Earl E., K. D. Krotzer, and R. L. Gallup, to James Heddon's Sons. Spinning reel. 193,515, 9–4–62, Cl. D31—4.
Miller, Herman, Inc.: *See*—
Eames, Charles. 192,799.
Eames, Charles. 193,339.
Miller, Ira H.: *See*—
Busch, Frank E., Fillmore, and Miller. 192,944.
Miller, James R. F. Combined lighting fixture and record storage unit. 193,668, 9–25–62, Cl. D33—3.
Miller, Lester A.: *See*—
Waxman, Jay S., and Miller. 193,007.
Miller, Nels A., to Hammond Organ Co. Electric organ. 192,450, 3–20–62, Cl. D56—2.
Miller, Nels A., to Hammond Organ Co. Electric organ. 192,882, 5–22–62, Cl. D56—2.
Miller Printing Machinery Co.: *See*—
Behnk, Donald J. 192,193.
Behnk, Donald J. 192,394.
Behnk, Donald J. 192,395.
Miller, Robert R., to The B. F. Goodrich Co. Tire. 193,129, 6–26–62, Cl. D90—20.
Mills, Norman T. Jouncing foot toy. 192,034, 1–9–62, Cl. D34—5.
Mills, Ralph W., to K-D Mfg. Co. Tool for applying and removing wheel balancing weights. 192,721, 5–1–62, Cl. D93—4.
Miner, Charles Q. Coach body for camping or the like. 193,388, 8–14–62, Cl. D14—3.
Miner, Raymond R., to J. Pavlik. Figurine. 193,666, 9–25–62, Cl. D29—23.
Minneapolis-Honeywell Regulator Co.: *See*—
Bernhart, Herbert S. 193,315.
Dreyfuss, Henry. 192,821.
Dreyfuss, Henry, Pendleton, and Lawrence. 193,004.
Godley, William P. 193,530.
King, William R. 193,316.
Monson, Wallace A. 194,106.
Sigford, John V. 192,582.
Sigford, John V. 192,831.
Minnesota Mining and Mfg. Co.: *See*—
Reinecke, Jean O. 193,372.
Severson, Gordon. 193,554.
Minnesota Rubber Co.: *See*—
Carlson, George E. 192,879.
Carlson, George E. 193,744.
Minnick, Brenda L. Tongs. 193,571, 9–11–62, Cl. D44—4.
Miron, George J.: *See*—
McGee, Joseph S., Miron, and Pitt. 192,026.
Mishawaka Rubber Co., Inc.: *See*—
Doherty, Thomas H. 193,501.
Mission-West Mfg. Co.: *See*—
Milette, Kenneth A. 192,896.
Milette, Kenneth A. 192,897.
Missionary Society of St. Paul the Apostle in the State of California: *See*—
Carvlin, John F. 193,459.
Mitchell, William L., to General Motors Corp. Automobile. 193,550, 9–11–62, Cl. D14—3.
Mite Corp.: *See*—
Curello, Charles. 192,698.
Modecraft Co., Inc.: *See*—
Fidel, Hyman. 193,183.
Modenco of Canada Ltd.: *See*—
McGee, Joseph S., Miron, and Pitt. 192,026.
Moehlenpah, Walter G., to Hydro-Air Engineering, Inc. Nailing plate. 193,809, 10–9–62, Cl. D54—9.
Moffats Ltd.: *See*—
Boldt, Melvin. 193,403.
Boldt, Melvin. 193,619.
Mojonnier, Albert B. Milk carton or the like. 192,619, 4–17–62, Cl. D58—12.
Mojonnier, Albert B. Milk carton or the like. 192,620, 4–17–62, Cl. D58—12.
Mojonnier, Albert B. Milk carton or the like. 192,621, 4–17–62, Cl. D58—12.
Molded Fiber Glass Tray Co.: *See*—
Levenhagen, Alvin W. 193,487.
Molina, Alfonso P. Combined table and planter. 193,674, 9–25–62, Cl. D35—3.
Molnar, Jozsef. Wall shelf. 192,169, 2–6–62, Cl. D33—18.
Molzen, Charles F.: *See*—
Landell, Harper, and Molzen. 194,229.
Monarch Laboratories, Inc.: *See*—
Lewis, Earl R. 193,930.
Monday, Zephyr, to U-Stretch Corp. Sock. 192,572, 4–10–62, Cl. D47—7.
Monday, Zephyr, to U-Stretch Corp. Sock. 192,573, 4–10–62, Cl. D47—7.
Monigle, Glenn W.: *See*—
Bateman, Coates F., Mankin, Copony, Smith, and Monigle. 192,817.
Bateman, Coates F., Mankin, Copony, Smith, and Monigle. 192,818.
Bateman, Coates F., Mankin, Copony, Smith, and Monigle. 192,819.
Monroe Calculating Machine Co.: *See*—
Barner, Terry L. 192,457.
Monroy, Arthur G.: *See*—
Del Mar, Roger A., and Monroy. 193,350.
Monson, Wallace A., to Minneapolis-Honeywell Regulator Co. Remote control unit. 194,106, 11–20–62, Cl. D26—13.
Moon, Irwin A., Jr.: *See*—
Lambert, Jesse J. 193,355.
Moore, Charles G., to Rubbermaid Inc. Utensil lid rack or similar article. 192,017, 1–2–62, Cl. D44—29.
Moore, Curtis. Bathtub seat. 192,955, 6–5–62, Cl. D4—4.
Moore, Herbert C., to Electro-Way Corp. Combined faucet fixture and kitchen accessory power source unit. 193,417, 8–14–62, Cl. D91—3.
Moore, Herbert C., to Electro-Way Corp. Combined electrically operated swing faucet and dishwashing fixture. 193,603, 9–11–62, Cl. D91—3.
Moore, Herbert C., to Electro-Way Corp. Combined electrically operated dishwashing unit and kitchen accessory power source unit. 193,648, 9–18–62, Cl. D91—3.
Moore, John W.: *See*—
Collinger, William W., Hunn, and Moore. 193,672.
Moore, Norman D. Aquarium. 192,404, 3–13–62, Cl. D91—2.
Moore, Walter E., to Knapp-Monarch Co. Casing for a hair dryer. 192,462, 3–20–62, Cl. D86—10.
Moore, Walter E., and H. H. Pryor, to National Vendors, Inc. Combination vendor and display case for general merchandise. 193,529, 9–4–62, Cl. D52—3.
Moore, Wessie B. Foot ornament. 192,315, 3–6–62, Cl. D7—7.
Moore, John D. Cube tap. 194,105, 11–20–62, Cl. D26—1.
Morgan, Fred F., to Lever Brothers Co. Bottle. 193,738, 10–2–62, Cl. D58—6.
Morgan, John R.: *See*—
Jenn Louis J., and Morgan. 194,137.
Morgan, Ray F., to The Morgan Sign Machine Co. Font of printing type. 192,058, 1–9–62, Cl. D64—12.
Morgan Sign Machine Co., The: *See*—
Morgan, Ray F. 192,058.
Morris, Gale P., to Tektronix, Inc. Mobile stand for an oscilloscope or the like. 192,792, 5–15–62, Cl. D14—3.
Morris, Lesley. Soap dish. 193,606, 9–18–62, Cl. D4—3.
Morris, Nathan K. Combined measuring and dispensing cap for a bottle or the like. 192,909, 5–29–62, Cl. D2—3.
Morris, Philip, Inc.: *See*—
Dreyfuss, Henry. 193,299.
Morrison-International Corp.: *See*—
Provenzo, Nicholas B. 194,224.
Morse, Hugh B., to Avery Industries, Inc. Portable vacuum forming machine. 193,112, 6–26–62, Cl. D54—8.
Moseley, F. L., Co.: *See*—
Austin, Edward E., and Kemplin. 193,731.
Moskowitz, Leroy S.: *See*—
Riddle, Richard L., and Moskowitz. 193,146.
Moss, John L., and V. J. Marik, to Relaxacizor, Inc. Electrical muscle stimulator. 192,841, 5–15–62, Cl. D83—1.
Moto-Mower, Inc.: *See*—
Przybylowicz, Alfred J., and Cabell. 192,869.
Przybylowicz, Alfred J., and Cabell. 193,153.
Motter, Richard L.: *See*—
Wilson, Oran C., and Motter. 192,853.
Mox, Dana W., to Illinois Tool Works, Inc. Food container or the like. 192,657, 4–24–62, Cl. D58—17.
Mox, Dana W., to Uarco Inc. Autographic register. 193,366, 8–7–62, Cl. D64—11.

Mueller, Erwin. Stapling machine. 193,371, 8–7–62, Cl. D74—1.
Müller, Josef, to Lenze KG. Lichttechnische Spezialfabrik. Ceiling lighting fixture. 192,878, 5–22–62, Cl. D48—23.
Mulligram, Inc. : *See*—
Mullinix, Lloyd M., and Graham. 194,093.
Mullinix, Lloyd M., and R. L. Graham, to Mulligram, Inc. Head for a swimming pool cleaner. 194,093, 11–20–62, Cl. D9—2.
Multi-Flli Machine Co. : *See*—
Aul, Robert J. 192,752.
Multi-Meter Corp. : *See*—
Van Nest, Lisle C. 193,222.
Munro, David C. Velocipede noisemaker. 192,552, 4–3–62, Cl. D90—1.
Munson, Donald J., to The J. R. Clark Co. Chair. 192,800, 5–15–62, Cl. D15—1.
Munz, Otto J. : *See*—
Wallace, David H., Valliant, and Williamson. 194,289.
Munz, Robert E., and L. R. Collins, to General Electric Co. Refrigerator cabinet or similar article. 193,228, 7–10–62, Cl. D67—3.
Murray Corp. of America, The : *See*—
Chapman, Frederick D. 193,167.
Chapman, Frerick D. 194,021.
Murray Ohio Mfg. Co., The : *See*—
Schreckengost, Viktor. 194,158.
Muscatiello, Ralph A., to The Gillette Co. Safety razor case. 192,656, 4–24–62, Cl. D58—12.
Musgrave, Orly : *See*—
McKnight, Robert J. 192,024.
Musichuk, Alexander B., to Scherr-McDermott, Inc. Toy tractor. 192,639, 4–24–62, Cl. D34—15.
Muter Co. (Jensen Mfg. Co. Division), The : *See*—
Johnson, Denis E., and Palma. 192,290.
Myers, Charles S., and W. P. Wahl, to Wahl Clipper Corp. Electric hair clipper. 192,424, 3–20–62, Cl. D22—5.
Nadeau, Roland J. G. : *See*—
Cormier, Alcide O. 192,439.
Nagy, Martin : *See*—
Schram, Richard R. 192,516.
Nakamura, Tsuglo, to Sekisui Chemical Co., Ltd. Chair. 193,508, 9–4–62, Cl. D15—1.
Nast, Robert. Sweater or similar article. 192,137, 1–30–62, Cl. D3—4.
Natho, Paul J. Handwheel for a valve. 194,298, 12–25–62, Cl. D78—1.
National Brush Co. : *See*—
Hauser, Jon W. 193,887.
National Cash Register Co., The : *See*—
Best, Melvin H., and Samhammer. 193,038.
Hittinger, Paul L. 192,898.
Hittinger, Paul L. 193,079.
Hittinger, Paul, and Steinke. 193,820.
Inatomi, Charles T., Best, and Samhammer. 193,712.
Irasek, Eugene H. 193,813.
Koons, Faul M., and Gaeke. 194,292.
National Expert Bait Co., Inc. : *See*—
Huntley, Wilbur A. 192,223.
National Lock Co. : *See*—
Aleks, Vytant P. 192,110.
Aleks, Vytant P. 192,179.
Aleks, Vytant P. 193,176.
Aleks, Vytant P. 193,177.
Amdal, Dagfinn O. 192,161.
Rhoades, Nolan K. 192,111.
Unter, Robert K. 193,544.
National Packaging Corp. : *See*—
Clemens, Herbert A. 192,129.
National Production Co. : *See*—
De Vos, Marcel O. 193,100.
National Steel Corp. : *See*—
Klein, Otto A. 194,233.
National Vendors, Inc. : *See*—
Moore, Walter E., and Pryor. 193,529.
Natser Corp. : *See*—
Klein, Peter M. 193,230.
Klein, Peter M. 193,231.
Natural Gas Equipment Inc. : *See*—
Richardson, Newton W. 193,482.
Neil, Hugh G., and C. L. Gladson, to Special Instruments Laboratory, Inc. Combined portable lectern and public address system. 193,935, 10–30–62, Cl. D26—14.
Nelson Brady Corp. : *See*—
Brady, Walter W., and Nelson. 192,465.
Nelson, Edward J., to Ballantyne Instruments and Electronics, Inc. Pressure cooker. 192,132, 1–23–62, Cl. D81—10.
Nelson, Leonard : *See*—
Brady, Walter W., and Nelson. 192,465.
Nelson, Llewellyn W. Tea bag squeezer. 192,377, 3–13–62, Cl. D44—29.
Nelson, Robert P., and C. O. Pounds, to Industrial Engineering & Erection Corp. Catamaran. 192,130, 1–23–62, Cl. D71—1.
Nemeth, Otto R. Motion picture projector. 194,079, 11–13–62, Cl. D61—1.
Nemlich, Ian H. : *See*—
Nemlich, Lee S. and I. H. 192,567.
Nemlich, Lee, and I. H. Combined wall panel and foldaway table. 192,567, 4–10–62, Cl. D33—14.
Nerheim, Lawrence F. Hand vacuum cleaner. 192,345, 3–13–62, Cl. D9—2.
Nethercot, Paul W. Wheel weight tool. 193,359, 8–7–62, Cl. D34—13.
Neuenschwander, Wilbur. Combined auxiliary stop light and ornament for automotive vehicles. 192,648, 4–24–62, Cl. D48—32.
Neupert, Eugene H., to The Clayton Corp. of Delaware, Inc. Closure for aerosol cans or the like. 192,456, 3–20–62, Cl. D58—26.
Newham, George N. : *See*—
Jones, Wilson K., and Newham. 192,039.
New Jersey Porcelain Co. : *See*—
Brenner, William C. 192,739.
Newman, James F., and J. W. Marshall, to United States Rubber Co. Tire. 194,012, 11–6–62, Cl. D90—20.
Newman, Jerome H. Dresser for centerless grinders and the like. 193,152, 7–3–62, Cl. D37—1.
Newman, Martin. Hair fluffer. 192,282, 2–20–62, Cl. D8—10.
Newport News Shipbuilding and Dry Dock Co. : *See*—
Chavatel, George R. 193,238.
Rancorn, Nelson C. 193,694.
Newton, William C. Attachment for a desk telephone. 193,-431, 8–21–62, Cl. D26—14.
New York Plumbers' Specialties Co., Inc. : *See*—
Lake, James, Jr. 192,188.
Nichols, John B. : *See*—
Anderson, Robert R., Herda, Hiller, Jacobsen, Nichols, and Sherby, 192,666.
Nigro, Louis V., to The Gillette Co. Safety razor handle. 193,778, 10–9–62, Cl. D58—5.
Nihon Mishin Seizo Kabushiki Kaisha : *See*—
Kondo, Akio. 192,759.
Nilsen, Alfred, to Sawtelle & Rosprim. Coupling for pipes or the like. 194,089, 11–13–62, Cl. D91—3.
Nissen, Bryn H. Dispensing head for beer and the like. 192,157, 2–6–62, Cl. D2—3.
Nissen Corp. : *See*—
Nissen, George P., and Conover. 193,859.
Nissen, George P., and Conover. 193,860.
Nissen, George P., and Conover. 193,861.
Nissen, George P., and Conover. 193,862.
Nissen, George P., and L. H. Conover, to Nissen Corp. Supporting stand for gymnastic balance beam. 193,859, 10–16–62, Cl. D34—5.
Nissen, George P., and L. H. Conover, to Nissen Corp. Supporting stand for gymnastic parallel bars. 193,860, 10–16–62, Cl. D34—5.
Nissen, George P., and L. H. Conover, to Nissen Corp. Supporting stand for gymnastic horse. 193,861, 10–16–62, Cl. D34—5.
Nissen, George P., and L. H. Conover, to Nissen Corp. Supporting stand for gymnastic vaulting buck. 193,862, 10–16–62, Cl. D34—5.
Nizzoli, Marcello, to Ing. C. Olivetti & C., S.p.A. Calculating machine. 192,273, 2–20–62, Cl. D64—11.
Noble, William H., and W. L. Shelton, to General Electric Co. Clothes washer or similar article. 193,082, 6–19–62, Cl. D49—1.
Noma Lites, Inc. : *See*—
Pettit, Frank. 193,276.
Norris, Robert B., to Schaefer, Inc. Refrigerated food merchandising cabinet. 192,198, 2–6–62, Cl. D30—11.
Norsted, Arnold, to Wood Conversion Co. Acoustic tile. 192,857, 5–22–62, Cl. D18—2.
North, David R., to General Motors Corp. Wheel cover. 192,854, 5–22–62, Cl. D14—30.
North American Philips Co., Inc. : *See*—
Buderman, Wilhelmus H. 192,960.
Northrop, John K., and E. M. Wilson, to The Garrett Corp. Anchor. 193,595, 9–11–62, Cl. D71—1.
Nowlin, Charles F. Toy racecourse bowl. 192,011, 1–2–62, Cl. D34—5.
Noyes, Eliot : *See*—
Acequa, Ernest M., Kostanecki, and Noyes. 193,005.
Noyes, Eliot, to International Business Machines Corp. Typewriter. 192,829, 5–15–62, Cl. D64—11.
Noyes, Eliot, to International Business Machines Corp. Combined microphone and card reel. 193,271, 7–24–62, Cl. D26—14.
Noyes, Eliot, to International Business Machines Corp. Portable dictating machine. 193,302, 7–31–62, Cl. D26—14.
Noyes, Eliot, to General Electric Co. Electric switch. 193,-852, 10–16–62, Cl. D26—13.
Noyes, Eliot, to General Electric Co. Electric switch. 193,-853, 10–16–62, Cl. D26—13.
Noyes, Eliot, E. M. Bevilacqua, to International Business Machines Corp. Computer console. 192,803, 5–15–62, Cl. D26—5.
Noyes, Eliot, E. M. Bevilacqua, and A. T. Kostanecki, to International Business Machines Corp. Listening device or similar article. 194,152, 11–27–62, Cl. D26—14.
Noyes, Eliot F. Shelter. 193,054, 6–19–62, Cl. D13—1.
Noyes, Eliot F., and E. M. Bevilacqua, to The Machlett Laboratories, Inc. Housing for an X-ray tube. 192,167, 2–6–62, Cl. D26—8.
Nutone, Inc. : *See*—
Hart, George D. 192,312.
Hart, George D. 192,402.
Nutting, David J., to R. J. Enstrom Corp. Helicopter or similar article. 192,487, 3–27–62, Cl. D71—1.
Nyman Mfg. Co. : *See*—
Nyman, Walfred M. 192,296.

Nyman, Walfred M., to Nyman Mfg. Co. Cup or similar article. 192,296, 2–27–62, Cl. D44—9.
Oakes, Charles D., and M. D. Harris, to MacPanel Co. Tape supporting rack. 192,083, 1–16–62, Cl. D33—3.
Oatley, Arthur F. Power unit for a domestic food mixer. 193,063, 6–19–62, Cl. D44—1.
Obata Import and Export, Inc.: *See*—
Obata, Kimio G. 194,172.
Obata, Kimio G., to Obata Import and Export, Inc. Combined book stand and memo pad holder. 194,172, 11–27–62, D74—1.
Obergfell, Allen R., to Bell & Howell Co. Carrying case for a photographic camera or similar article. 192,238, 2–13–62, Cl. D87—5.
O'Connor, Michael K. Saw horse. 192,700, 5–1–62, Cl. D54—1.
O'Donaughy, James J., and J. Stewart. Railing panel. 192,481, 3–27–62, Cl. D54—2.
O'Donaughy, James J., and J. Stewart. Railing panel. 193,156, 7–3–62, Cl. D54—2.
O'Donaughy, James J., and J. Stewart. Railing panel. 193,157, 7–3–62, Cl. D54—2.
O'Donaughy, James J., and J. Stewart. Railing panel. 193,249, 7–17–62, Cl. D54—2.
Offensend, Glen W., and N. J. Rosenburgh, to Eastman Kodak Co. Reading projector. 192,104, 1–16–62, Cl. D61—1.
Ohlsson, Folke E. H., to Dux Inc. Lounge chair. 193,138, 7–3–62, Cl. D15—11.
Ohlsson, Folke E. H., to Dux Inc. Chair. 193,265, 7–24–62, Cl. D15—1.
Ohlsson, Folke E. H., to Dux Inc. Table. 193,790, 10–9–62, Cl. D33—14.
Ohlsson, Folke E. H., to Dux Inc. Chair. 193,842, 10–16–62, Cl. D15—1.
Ohlsson, Folke E. H., to Dux Inc. Chair. 193,843, 10–16–62, Cl. D15—1.
Ohlsson, Folke E. H., to Dux Inc. Chair. 193,844, 10–16–62, Cl. D15—1.
Olds, William M., K. C. Browne, Jr. and C. D., to Browne Bros. Equipment Co. Boat bailing pump or similar article. 194,251, 12–18–62, Cl. D65—1.
Olin Mathieson Chemical Corp.: *See*—
Brooks, Julius E. 192,248.
Sheltmire, William H. 192,580.
Olivetti, Ing. C., & C., S.p.A.: *See*—
Nizzoli, Marcello. 192,273.
Pintori, Giovanni. 193,915.
O'Loughlin, Charles J.: *See*—
Kenney, James T., and O'Loughlin. 193,148.
Kenney, James T. and O'Loughlin. 193,349.
Olympia Werke A.G.: *See*—
Eisner, Hans. 193,185.
Sieber, Peter. 192,057.
Sieber, Peter. 192,659.
Sieber, Peter. 192,661.
Sieber, Peter. 192,662.
Sieber, Peter, and Schurer. 193,267.
Oneida Ltd.: *See*—
House, Elliott M. 192,037.
Lea, Melvin A. 192,051.
Manderfield, Ellen. 192,702.
Manderfield, Ellen. 193,810.
Manderfield, Ellen B. 192,049.
Perry, Frank R. 192,050.
Perry, Frank R. 192,703.
Onondaga Pottery Co.: *See*—
Szymanski, Michael J. 193,572.
Ormston Burns Ltd.: *See*—
Burns, James O. 194,067.
Ortega, Joseph J.: *See*—
Anderson, Douglas W., Goldsmith, Hester, and Ortega. 194,071.
Orzel, Walter J.: *See*—
Wicker, Eugene H., and Orzel. 193,926.
O'Shea, William J. Religious plaque or similar article. 192,168, 2–6–62, Cl. D29—23.
Oster, John, Mfg. Co.: *See*—
Madl, Alfred W. 192,258.
Madl, Alfred W. 192,718.
Madl, Alfred W. 193,848.
Owen, Harold A. Baby pants. 193,131, 7–3–62, Cl. D3—17.
Owens, David, Jr. Sewing cabinet. 192,207, 2–13–62, Cl. D3—19.
Owens-Illinois Glass Co.: *See*—
Busch, Frank B., Fillmore, and Miller. 192,944.
Roberts, Bruce L. 193,913.
Westhoven, Claire J., and Brown. 193,741.
Wilhelm, Russell B. 192,453.
Worthington, George W. 192,979.
Owens Plastics Co.: *See*—
Cory, Thomas L. 192,708.
Owens, Simeon P.: *See*—
Schram, Richard R. 192,516.
Owles, Fred G., Jr., to G. H. Rackensperger. Roadside building. 193,239, 7–17–62, Cl. D13—1.
Owles, Fred G., Jr., to G. H. Rackensperger. Sign. 193,262, 7–24–62, Cl. D1—12.
Pachmayr, Frank A., and L. L. Huskey, to Firearm Accessories, Inc. Gun recoil cushion. 192,922, 5–29–62, Cl. D30—1.
Pachmayr, Frank A., and L. L. Huskey, to Firearm Accessories, Inc. Gun recoil pad. 192,923, 5–29–62, Cl. D30—1.
Pachmayr, Frank A., and L. L. Huskey, to Firearm Accessories, Inc. Gun recoil pad. **192,924, 5–29–62, Cl. D30—1.**
Packard-Bell Electronics Corp.: *See*—
Kelso, James W. 194,195.
Page, Richard I., to Foley Mfg. Co. Tongs. 194,113, 11–20–62, Cl. D44—4.
Pahas, George. Foot support or the like. 192,777, 5–8–62, Cl. D83—1.
Painter, David L., to The West Bend Co. Coffee percolator. 192,529, 4–3–62, Cl. D44—26.
Painter, David L., to The West Bend Co. Combined coffee percolator and stand therefor. 192,530, 4–3–62, Cl. D44—26.
Pajek, Raymond J. Combined container and stamp moistener or the like. 192,459, 3–20–62, Cl. D74—10.
Palazzo, Robert J., to Anderson, Clayton & Co. Bottle. 192,452, 3–20–62, Cl. D58—6.
Palma, Joseph, Jr.: *See*—
Johnson, Denis E., and Palma. 192,290.
Palmer, Gordon O., to Max Mandel Laces, Inc. Scarf. 192,781, 5–8–62, Cl. D92—26.
Palmer, John L. Combination parking meter timer and coin holder. 193,279, 7–24–62, Cl. D52—4.
Pancotti, Mario. Accordion grill. 193,581, 9–11–62, Cl. D56—1.
Pandolfo, Sam, III. Reel for film or the like. 194,223, 12–11–62, Cl. D61—1.
Pannone, Lester: *See*—
Donald, Donald G., Pannone, and Conway. 193,050.
Panzica, Anton J.: *See*—
Dean, Arthur F., and Panzica. 194,190.
Paps, Costis J. Carrier for milk cartons or the like. 192,535, 3–6–62, Cl. D58—27.
Parcher, James H.: *See*—
Franklin, Burton P., and Parcher. 192,068.
Franklin, Burton P., and Parcher. 192,069.
Park, Malcolm S., to The Singer Mfg. Co. Sewing machine. 192,712, 5–1–62, Cl. D70—1.
Park, Malcolm S., to The Singer Mfg. Co. Sewing machine frame or similar article. 194,252, 12–18–62, Cl. D70—2.
Parker, Frank H., to S. C. Peplin. Bathtub and shower mixing control valve unit. 193,756, 10–2–62, Cl. D91—3.
Parker, Irvine E. Bathtub. 193,237, 7–17–62, Cl. D4—4.
Parker Pen Co., The: *See*—
Bieger, Walter L. 192,716.
Rhoades, Nolan K. 193,373.
Parker Sweeper Co.: *See*—
Stout, Theophilus P. R., and Houser. 194,051.
Parker, Waylan B.: *See*—
Jensen, George B., Lane, and Parker. 194,031.
Parker, Waylan B., Chair. 192,075, 1–16–62, Cl. D15—1.
Parker, Wayland B., and T. R. Van Benschoten, to Daystrom, Inc. Desk. 192,864, 5–22–62, Cl. D33—7.
Paroselli, Leopold. X-ray tube. 193,617, 9–18–62, Cl. D26—8.
Parris, Samuel R., to Burroughs Corp. Font of character numerals. 193,451, 8–21–62, Cl. D64—12.
Parrish, Archie F., L. Houze, and J. W. Inge, Jr., to Farrows, Inc. Sign. 193,165, 7–10–62, Cl. D1—12.
Parry, Robert D. Bird feeder. 193,558, 9–11–62, Cl. D31—2.
Parsell, Kendrick T. Carrying case for cameras or the like. 194,139, 11–20–62, Cl. D87—5.
Parsons, Myers K. Evaporative cooler cabinet. 192,946, 5–29–62, Cl. D62—4.
Paruolo, Anthony N., to Advertising Metal Display Co. Movable cart for air conditioners or the like. 192,996, 6–12–62, Cl. D14—3.
Pass & Seymour, Inc.: *See*—
Grieshaber, Gunther S. 192,804.
Grieshaber, Gunther S. 192,805.
Pascucci, Julio, and H. S. Jones, to The Miller Co. Light fixture. 192,846, 4–24–62, Cl. D48—23.
Passman, Harry M.: *See*—
Schweighofer, Horst M., and Passman. 194,191.
Passman, Nathan E. Standard for lighting fixtures or the like. 192,574, 4–10–62, Cl. D48—31.
Pastor, Sheldon L.: *See*—
Briskin, Theodore S., and Pastor. 193,514.
Patent and Licensing Corp., The: *See*—
Bartlett, Angelo E., and Fletcher. 194,104.
Patience, David, Jr., to Rembrandt Lamp Corp. Table. 192,738, 5–8–62, Cl. D33—14.
Patience, David, Jr., to Rembrandt Lamp Corp. Lamp. 193,632, 9–18–62, Cl. D48—20.
Patla, Jacob W.: *See*—
Hoogesteger, Paul A., and Patla. 193,781.
Patrick, Burton E. Game club. 193,436, 8–21–62, Cl. D34—5.
Patterson, Gillette V., to Swartwout Fabricators, Inc. Ventilator. 193,642, 9–18–62, Cl. D62—3.
Patterson, Gillette V., and F. P. Darnell, to Swartwout Fabricators, Inc. Roof ventilator. 192,894, 5–22–62, Cl. D62—4.
Patterson, Lawrence W. Display stand for merchandise. 192,985, 6–5–62, Cl. D80—10.
Patterson, Lawrence W. Bottle handling rack. 193,504, 9–4–62, Cl. D14—3.
Paulmar, Inc.: *See*—
Menary, Robert F., and Firych. 193,283.
Pavlik, John: *See*—
Miner, Raymond R. 193,666.
Pearlstine, Morton, to The Bunting Co., Inc. Chair. 192,353, 3–13–62, Cl. D15—1.
Pearson, Ira J. Counter top unit for banks or the like. 193,458, 8–21–62, Cl. D80—2.

Peca, Peter S. Carrier for baby bottles or the like. 193,313, 7–31–62, Cl. D58—26.
Peck, Vernon P., and S. O. Shinkawa. Necklace. 193,105, 6–26–62, Cl. D45—16.
Pelley, Perry H., to Tru-Scale, Inc. Canopy. 192,074, 1–16–62, Cl. D13—1.
Pelly, Charles W., to Harry and David. House trailer. 192,-791, 5–15–62, Cl. D14—3.
Pelzman, Lee H., to Spencer Novelty Mfg. Co. Bead. 192,-096, 1–16–62, Cl. D45—1.
Pendleton, Robert A.: *See*—
Dreyfuss, Henry, Pendleton, and Lawrence. 193,004.
Penn Metal Co., Inc.: *See*—
Casley, Dallas S. 192,332.
Penna, Toney, to Macgregor Sport Products, Inc. Golf club head. 192,366, 3–13–62, Cl. D34—5.
Peplin, Stephen C.: *See*—
Parker, Frank H. 193,756.
Perl, Frederick W., to Westinghouse Electric Corp. Combined toaster cover and toast rack. 194,119, 11–20–62, Cl. D14—29.
Perry, Frank R., to Oneida Ltd. Spoon or similar article. 192,050, 1–9–62, Cl. D54—12.
Perry, Frank R., to Oneida Ltd. Spoon or similar article. 192,703, 5–1–62, Cl. D54—12.
Perry, Mach. Classroom music stand. 192,566, 4–10–62, Cl. D33—10.
Peters, Ray J. Surveyors' tape clamping tool. 194,003, 11–6–62, Cl. D54—13.
Peterson, David G. Airplane. 192,664, 4–24–62, Cl. D71—1.
Peterson, Edwin F. Vibratory shaker for unloading railroad cars or the like. 193,213, 7–10–62, Cl. D55—1.
Peterson, Jerold R.: *See*—
Ernest, Robert O., and Peterson. 193,944.
Peterson, Kail R., to General Electric Co. Tape console. 193,345, 8–7–62, Cl. D26—14.
Petitto, Albert C., to Foster Grant Co., Inc. Pair of sunglasses. 192,266, 2–20–62, Cl. D57—1.
Petitto, Albert C., to Foster Grant Co., Inc. Sunglass frame or the like. 192,883, 5–22–62, Cl. D57—1.
Petitto, Albert C., to Foster Grant Co., Inc. Sunglass frame or the like. 192,884, 5–22–62, Cl. D57—1.
Petitto, Albert C., to Foster Grant Co., Inc. Sunglass frame front or the like. 192,885, 5–22–62, Cl. D57—1.
Petitto, Albert C., to Foster Grant Co., Inc. Sunglass frame or the like. 193,028, 6–12–62, Cl. D57—1.
Petitto, Albert C., to Foster Grant Co., Inc. Sunglass frame front or the like. 193,251, 7–17–62, Cl. D57—1.
Petitto, Albert C., to Foster Grant Co., Inc. Clip on sunglass. 193,872, 10–16–62, Cl. D57—1.
Petrie, Richard E.: *See*—
Deschamps, Robert L., and Petrie. 194,151.
Petry, Frank A. Aircraft. 192,964, 1–9–62, Cl. D71—1.
Petschke, Inge, to The Barmen Lace Corp. Narrow woven fabric or similar article. 192,203, 2–6–62, Cl. D92—1.
Petschke, Inge, to The Barmen Lace Corp. Braid or the like. 192,408, 3–20–62, Cl. D3—32.
Petschke, Inge, to The Barmen Lace Corp. Braid or similar article. 192,954, 5–8–62, Cl. D3—32.
Pettengill, Myron F., to General Electric Co. Luminaire. 193,407, 8–14–62, Cl. D48—31.
Pettingill, Edwin R., to Thatcher Glass Mfg. Co., Inc. Jug. 194,068, 11–13–62, Cl. D58—5.
Petrik, Frank, to Noma Lites, Inc. Bubbling candle lamp. 193,276, 7–24–62, Cl. D48—20.
Pfaff, Henry C., Jr., to Pfaff and Kendoll. Base for a lighting pole. 192,441, 3–20–62, Cl. D48—31.
Pfaff and Kendoll: *See*—
Pfaff, Henry C., Jr. 192,441.
Phillipps, Virgil J., to American Machine & Foundry Co. Beverage dispenser. 193,831, 10–16–62, Cl. D2—3.
Phillips, Dwight M. Digger tooth. 193,016, 6–12–62, Cl. D39—1.
Phillips, George H., Jr. Mobile telephone booth. 193,387, 8–14–62, Cl. D14—3.
Phillips, Paul K.: *See*—
Skiera, Richard J., and Phillips. 193,418.
Phonex Instrument Co., Inc.: *See*—
Zimmerman, Jack J. 192,172.
Physio-Health, Inc.: *See*—
Maratta, James. 193,437.
Picker X-Ray Corp. Waite Mfg. Division, Inc.: *See*—
Furnas, Thomas C., Jr. 192,616.
Pickinpaugh, Asa: *See*—
Ridenour, Stewart J., and Pickinpaugh. 192,429.
Pierce, George R.: *See*—
Becker, Roger T. and W. K., and Pierce. 192,935.
Pierce, Joseph E., and W. C. Christine, to Allen Electronics, Inc. Vending machine for hot beverages or the like. 194,123, 11–20–62, Cl. D52—3.
Piker, Herbert M., to Hamilton-Skotch Corp. Dispensing spigot. 193,449, 8–21–62, Cl. D58—17.
Piker, Herbert M., to The Hamilton-Skotch Corp. Insulated picnic jug. 194,075, 11–13–62, Cl. D58—17.
Pincus, Sidney L. Christmas stocking. 194,002, 11–6–62, Cl. D47—7.
Pink, Chester A. Combined sofa bed and table unit. 192,495, 4–3–62, Cl. D5—4.
Pink, Chester A., to The Englander Co., Inc. Combined twin bed and table unit. 193,086, 6–26–62, Cl. D5—4.
Pintori, Giovanni, to Olivetti, Ing. C., S.p.A. Typewriter 193,915, 10–23–62, Cl. D64—11.
Pioneer Mfg. Co.: *See*—
Wahlstrom, Steven L. 192,272.
Piper, Renee. Toy jumping standard. 192,865, 5–22–62, Cl. D34—5.
Pisano, Salvatore, to J. S. Fitzgerald, Inc. Combined figurine and rosary case. 192,599, 4–17–62, Cl. D29—23.
Pistey, Alexander M. Trophy or similar article. 193,304, 7–31–62, Cl. D29—23.
Pitchford, Richard L.: *See*—
Hoogesteger, Paul A., and Pitchford. 194,004.
Pitt, Margaret E. A.: *See*—
McGee, Joseph S., Miron, and Pitt. 192,026.
Pittsburgh Corning Corp.: *See*—
Kingsbury, Howard F. 193,391.
Kingsbury, Howard F. 193,392.
Plas-Tainer Inc.: *See*—
Baker, Clifford G., and Guldberg. 193,361.
Plastic Contact Lens Co.: *See*—
Reynolds, Alvin E. 192,153.
Platte, Richard L., to Hoover Ball and Bearing Co. Jug. 193,115, 6–26–62, Cl. D58—5.
Platte, Richard L., to Hoover Ball and Bearing Co. Jug. 193,116, 6–26–62, Cl. D58—5.
Plax Corp.: *See*—
Hills, David G. 193,031.
Hills, David G. 193,281.
Pohrer, Richard M., to Aalco Mfg. Co. Basketball backstop. 193,097, 6–26–62, Cl. D34—5.
Poirette Corsets, Inc.: *See*—
Laguzzi, Mario. 193,298.
Laguzzi, Mario. 199,776.
Polaroid Corp.: *See*—
Dreyfuss, Henry, and Conner. 193,590.
Pollack, William G., to Aeolian American Corp. Piano case. 192,128, 1–23–62, Cl. D56—9.
Pope, Walter N. Display stand. 193,125, 6–26–62, Cl. D80—9.
Popeil, Samuel J. Vegetable cutter. 193,754, 10–2–62, Cl. D89—1.
Porambo, Francis E., to Franchett's Kruellers, Inc. Extruded bakery product. 193,170, 7–10–62, Cl. D8—1.
Portable Structures, Inc.: *See*—
Yandt, Carl F. 193,736.
Porter Athletic Equipment Co.: *See*—
Johnson, Norval J., and Schultz. 194,238.
Porter, H. K., Co.: *See*—
Franklin, Burton P. 193,863.
Porter, H. K., Co., (Delaware): *See*—
Franklin, Burton P., and Parcher. 192,068.
Franklin, Burton P., and Parcher. 192,069.
Poster Packaging, Inc.: *See*—
Bostrom, John D. 193,118.
Bostrom, John D. 193,119.
Bostrom, John D. 193,583.
Potter, Allen C.: *See*—
Klonski, Stephen W., and Potter. 193,643.
Pounds, Clifford O.: *See*—
Nelson, Robert P., and Pounds. 192,130.
Poupitch, Ougljesa J. Can carrier. 194,199, 12–4–62, Cl. D58—26.
Powell, David R., to Sperry Rand Corp. Electromagnetic radiation detecetor. 193,850, 10–16–62, Cl. D26—1.
Power Cat Boat Corp., The: *See*—
Leger, Ray E. 193,041.
Powers, James R., to Traub Mfg. Co. Finger ring. 194,058, 11–13–62, Cl. D43—10.
Powers, William J., Jr.: *See*—
Bunker, Henry L., Jr., and Powers. 193,463.
Prator, Simpson V., to Texas Vitrified Pipe Co. Housing for a sewage pump station or the like. 192,788, 5–15–62, Cl. D13—1.
Prator, Simpson V. Housing for sewage pump station. 193,-927, 10–30–62, Cl. D13—1.
Pratt, Samuel O., to Lyon & Healy, Inc. Harp. 193,360, 8–7–62, Cl. D56—1.
Preble, Harry, Jr., to The A. C. Gilbert Co. Microscope or similar article. 192,824, 5–15–62, Cl. D57—1.
Preble, Harry, Jr., to The A. C. Gilbert Co. Binocular microscope or similar article. 193,214, 7–10–62, Cl. D57—1.
Prescolite Mfg. Corp.: *See*—
Gantenbrink, Heinrich. 193,631.
Prescott, J. L., Co.: *See*—
Blod, Francis, and Stehl. 193,874.
Prestige Hardware Corp.: *See*—
Wolf, Bern E., and Lee. 192,299.
Wolf, Bern E., and Lee. 192,871.
Presto Lock Co.: *See*—
Gehrie, Charles S. 193,247.
Gehrie, Charles S. 193,825.
Gehrie, Charles S. 193,905.
Gehrie, Charles S. 194,282.
Preston, Enos C. Combined table and seating unit. 194,038, 11–13–62, Cl. D33—14.
Price Brothers Plastics Corp.: *See*—
Price, Irwin E. 193,703.
Price, Irwin E., to Price Brothers Plastics Corp. Ring binder. 193,703, 10–2–62, Cl. D6—2.
Price, Leo. Gauge calibrator or the like. 193,681, 9–25–62, Cl. D52—6.
Price, Paul S., and F. C. Greene, to Shepherd Casters, Inc. Caster. 193,421, 8–21–62, Cl. D10—6.
Prichard, Evan S., to Challenge-Cook Bros. Inc. Truck. 192,-027, 1–9–62, Cl. D14—3.
Prince Ice Cream Castles, Inc.: *See*—
Liebenberg, Jacob J. 193,469.

Pritchard, Peter E., to Audio Dynamics Corp. Stylus for a phonograph cartridge. 194,264, 12–25–62, Cl. D26—14.
Procter & Gamble Co., The: *See*—
Clawson, Robert H., and Horne. 192,834.
Torongo, Albert H. 192,438.
Vanderhyde, Harold J. 194,131.
Proen Products Co.: *See* —
Clever, Donald G. 193,787.
Proietti, Joseph T. Storage container for automobile cleaning accessories or the like. 194,287, 12–25–62, Cl. D58—11.
Provenzo, Nicholas B., to Morrison-International Corp. Display rack for tires and accessories. 194,224, 12–11–62, Cl. D80—10.
Pryor, Harry H.: *See*—
Moore, Walter E., and Pryor. 193,529.
Przybylowicz, Alfred J., and D. N. Cabell, to Moto-Mower, Inc. Control nylon for a riding lawn mower or the like. 192,-869, 5–22–62, Cl. D40—1.
Przybylowicz, Alfred J., and D. N. Cabell, to Moto-Mower, Inc. Riding lawn mower. 193,153, 7–3–62, Cl. D40—1.
Pullman Inc.: *See*—
Cooney, John R. 193,227.
Gutridge, Jack E. 192,063.
Gutridge, Jack E. 193,286.
Purcell, William F. H.: *See*—
Dreyfuss, Henry, Purcell, and Conner. 193,838.
Purdy, John G. Sign. 192,407, 3–20–62, Cl. D1—12.
Purex Corp., Ltd.: *See*—
Sterges, Alfred D. 192,269.
Sterges, Alfred D. 193,688.
Sterges, Alfred D. 193,910.
Sterges, Alfred D. 193,911.
Sterges, Alfred D. 193,953.
Sterges, Alfred D. 194,197.
Sterges, Alfred D., and Glassco. 192,268.
Sterges, Alfred D., and Williams. 193,221.
Pyland, Jack W. Fishhook extractor. 192,737, 5–8–62, Cl. D31—4.
Pyramid Instrument Corp.: *See*—
Koch, Samuel J., and Ehrlich. 193,715.
Quaker Lace Co.: *See*—
Binns, Thomas W. 194,017.
Binns, Thomas W. 194,018.
Castorani, Francesco P. 193,495.
Fees, Richard A. 192,593.
Fees, Richard A. 194,016.
Fees, Richard A. 194,256.
Quistgaard, Jens H., to Dansk Designs-With-Light, Inc. Candle holder. 192,331, 3–6–62, Cl. D48—2.
Quistgaard, Jens H., to Dansk Designs-With-Light, Inc. Candle holder. 193,630, 9–18–62, Cl. D48—2.
Raab, Max L.: *See*—
Raab, Norman, and M. L. 194,253.
Raab, Norman, and M. L., to The Villager, Inc. Dressmaker form. 194,253, 12–18–62, Cl. D80—8.
Rabb, Alfred, Jr. Bed headboard. 194,023, 11–13–62, Cl. D5—4.
Rabb, Alfred, Jr. Corner cabinet. 194,039, 11–13–62, Cl. D32—19.
Rackensperger, George H.: *See*—
Owles, Fred G., Jr. 193,239.
Owles, Fred G., Jr. 193,262.
Radanovich, George, Jr. Fish scaler. 193,190, 7–10–62, Cl. D31—4.
Radio Corp. of America: *See*—
Young, Charles J. 193,692.
Radley, Ernest, Jr.: *See*—
Bourner, Howard L., and Radley. 194,254.
Rahm, Omer. Combination heating and cooking unit. 192,586, 4–10–62, Cl. D81—1.
Rahr, Frederic H.: *See*—
Brody, Philip M., and Rahr. 194,148.
Rains Mfg. Co., Inc.: *See*—
Arnett, George A., and Smith. 192,445.
Rampinelli-Schwarz, B., and J. Walter. Spice dispenser. 192,579, 4–10–62, Cl. D58—6.
Rancorn, Nelson C., to Newport News Shipbuilding and Dry Dock Co. Recessed fountain and vanity unit for a ship passageway. 193,694, 9–25–62, Cl. D66—1.
Ranoha, Stephen: *See*—
Ranoha, Stephen, and Schallinger. 194,265.
Ranoha, Stephen, and B. H. Schallinger, deceased (S. Ranoha and B. Schallinger, executors), to Tomar Industries, Inc. Artificial tree. 194,265, 12–25–62, Cl. D29—1.
Rappoport, Seymour: *See*—
Smith, James D., and Rappoport. 192,890.
Smith, James D., and Rappoport. 193,869.
Rappoport, Seymour, to Ronson Corp. Lighter or similar article. 193,406, 8–14–62, Cl. D48—27.
Rassey, Alexander J. Combination focusing telescope and recording camera or similar article. 193,737, 10–2–62, Cl. D57—1.
Raver, Malba M. Hanger. 193,598, 9–11–62, Cl. D80—8.
Rawson, Paul O., Jr., and F. M. Grunwald, to General Electric Co. Sharpener. 192,434, 3–20–62, Cl. D37—1.
Rawson, Paul O., Jr., and R. L. Funk, to General Electric Co. Coffee maker or similar article. 192,571, 4–10–62, Cl. D44—26.
Rawson, Paul O., Jr., and R. L. Funk, to General Electric Co. Combination toaster and oven or similar article. 193,259, 7–17–62, Cl. D81—10.
Ray, Branch B.: *See*—
Bradley, Ira, and Ray. 192,208.
Ray, Jay F. Golf club head. 192,473, 3–27–62, Cl. D34—5.
Raymond, George E., to Dari-Plastics, Inc. Milk bottle tray. 192,036, 1–9–62, Cl. D44—10.
Reach, Walter R., to Golden Glow Vending Co., Inc. Baker's reel oven. 194,085, 11–13–62, Cl. D81—10.
Reach, Walter R., to Golden Glow Vending Co., Inc. Baker's reel oven. 194,086, 11–13–62, Cl. D81—10.
Rebold, Hazel F. Stuffed animal or the like. 192,144, 1–30–62, Cl. D34—2.
Rebold, Hazel F. Stuffed animal or the like. 192,145, 1–30–62, Cl. D34—2.
Rebold, Hazel F. Stuffed animal or the like. 192,146, 1–30–62, Cl. D34—2.
Rebold, Hazel F. Stuffed doll. 193,395, 8–14–62, Cl. D34—4.
Rebold, Hazel F. Stuffed doll. 193,396, 8–14–62, Cl. D34—4.
Rebold, Hazel F. Stuffed doll. 193,397, 8–14–62, Cl. D34—4.
Rech, Raymond G., to Arens Controls, Inc. Handle for lawnmowers or the like. 193,626, 9–18–62, Cl. D40—1.
Rech, Raymond G., to Arens Controls, Inc. Handle for lawnmowers or the like. 193,627, 9–18–62, Cl. D40—1.
Rech, Raymond G., to Arens Controls, Inc. Handle for lawnmowers or the like. 193,628, 9–18–62, Cl. D40—1.
Rechberg, Sig R., to Adams Rite Mfg. Co. Sliding door escutcheon plate. 194,064, 11–13–62, Cl. D50—6.
Rector, Joseph. Combined telephone amplifier and radio receiver. 193,714, 10–2–62, Cl. D26—14.
Reed, John E., to Sunbeam Corp. Thermostat for cooking appliances. 193,618, 9–18–62, Cl. D26—13.
Reed, Roscoe G.: *See*—
Mangini, John, and Reed. 192,980.
Red Barn System, Inc., The: *See*—
Bierley, Richard E. 192,414.
Redin, Louie F.: *See*—
Campbell, Caleb L., and Redin. 192,525.
Redwing Carriers, Inc.: *See*—
Mendez, Charles E. 193,294.
Regan, Patrick J. Bowling lane maintenance machine. 193,-383, 8–14–62, Cl. D9—2.
Regan, Patrick J., to D.B.A. Products Co., Inc. Bowling lane maintenance machine. 193,384, 8–14–62, Cl. D9—2.
Regent Electronic Development Co. Inc.: *See*—
Liftin, Robert, and Denson. 193,142.
Reichenthal, Leonard. Combined ruler and pencil holder or similar article. 194,410, 8–14–62, Cl. D52—6.
Reifers, Richard F., to Diamond National Corp. Molded pulp berry basket. 193,952, 10–30–62, Cl. D58—4.
Reifers, Richard F., W. J. Hrozenchik, and T. B. Kennedy, to Diamond National Corp. Packaging tray. 193,220, 7–10–62, Cl. D58—12.
Reinecke, Jean O., to Culligan, Inc. Insulating cover for a water conditioning tank or the like. 192,284, 2–20–62, Cl. D91—1.
Reinecke, Jean O., to Minnesota Mining and Mfg. Co. Tape dispenser. 193,372, 8–7–62, Cl. D74—1.
Reineman, Richard G., and G. E. Schaefer, to Brunswick Corp. Table or the like. 192,010, 1–2–62, Cl. D33—14.
Reineman, Richard G., G. H. Hart, and G. E. Schaefer, to Brunswick Corp. Billiard table or the like. 192,086, 1–16–62, Cl. D34—3.
Reineman, Richard G., and G. E. Schaefer, to Brunswick Corp. Locker door or the like. 193,009, 6–12–62, Cl. D33—19.
Reineman, Richard G., and G. E. Schaefer, to Brunswick Corp. Table or the like. 193,193, 7–10–62, Cl. D33—14.
Reineman, Richard G., and G. E. Schaefer, to Brunswick Corp. Table or the like. 194,037, 11–13–62, Cl. D33—14.
Reiser, John H., to Wallace China Co., Ltd. Plate or similar article. 192,015, 1–2–62, Cl. D44—15.
Relaxacizor, Inc.: *See*—
Moss, John I., and Marik. 192,841.
Rellis, Lawrence B. Passenger aircraft. 192,307, 2–27–62, Cl. D71—1.
Rellis, Lawrence B. Passenger aircraft. 193,076, 6–19–62, Cl. D71—1.
Rellis, Lawrence B. Vertical take-off and landing aircraft. 192,221–62, Cl. D71—1.
Rellis, Lawrence B. Passenger aircraft. 193,880, 10–16–62, Cl. D71—1.
Re-Ly-On Metal Products, Inc.: *See*—
Friedman, Samuel. 192,911.
Rembrandt Lamp Corp.: *See*—
Patience, David, Jr. 192,738.
Patience, David, Jr. 193,632.
Remembrance Memorials, Inc.: *See*—
Lucken, John M., and Clemmer. 193,078.
Reppel & Vollmann KG.: *See*—
Vollmann, Carl H. 192,969.
Reitke, Julius L., ½ to J. Fowler and ½ to W. Schroeder. Smoking pipe. 194,174, 11–27–62, Cl. D85—8.
Revere Camera Co. (formerly Samica Corp.): *See*—
Briskin, Theodore S., and Pastor. 193,514.
Rexall Drug and Chemical Co.: *See*—
Sweet, James B. 194,177.
Tupper, Earl S. 192,192.
Reynolds, Alvin E., to Plastic Contact Lens Co. Corneal lens computer. 192,153, 1–30–62, Cl. D57—1.
Reynolds, Clarence R., to The Cleveland Skate Co., Inc. Roller skate wheel. 192,928, 5–29–62, Cl. D34—14.
Reynolds, Dean H., to Eastman Kodak Co. Font of display letters. 192,760, 5–8–62, Cl. D64—12.
Reynolds, Dean H., to Eastman Kodak Co. Font of display letters. 192,761, 5–8–62, Cl. D64—12.
Reynolds, Dean H., to Eastman Kodak Co. Font of display letters. 192,762, 5–8–62, Cl. D64—12.

Reynolds, Dean H., to Eastman Kodak Co. Font of display letters. 192,763, 5–8–62, Cl. D64—12.
Reynolds, Dean H., to Eastman Kodak Co. Font of display letters. 192,764, 5–8–62, Cl. D64—12.
Reynolds, Dean H., to Eastman Kodak Co. Font of display letters. 192,765, 5–8–62, Cl. D64—12.
Reynolds, Dean H., to Eastman Kodak Co. Font of display letters. 192,766, 5–8–62, Cl. D64—12.
Reynolds, Dean H., to Eastman Kodak Co. Font of display letters. 192,767, 5–8–62, Cl. D64—12.
Reynolds, Dean H., to Eastman Kodak Co. Font of display letters. 192,768, 5–8–62, Cl. D64—12.
Reynolds, Dean H., to Eastman Kodak Co. Font of display letters. 192,769, 5–8–62, Cl. D64—12.
Reynolds Metals Co.: *See*—
Gay, Robert V. 193,888.
Rhindress, Walter H. Mounting support for commutator segment undercutting and turning down attachments. 192,-822, 5–15–62, Cl. D55—1.
Rhoades, Nolan K., to National Lock Co. Pull or the like. 192,111, 1–23–62, Cl. D10—8.
Rhoades, Nolan K., to The Parker Pen Co. Writing instrument. 193,373, 8–7–62, Cl. D74—17.
Rhoades, Nolan K., and J. V. Hansen, to The Electric Storage Battery Co. Hand lantern. 192,800, 2–27–62, Cl. D48—24.
Rhoads and Co.: *See*—
Rhoads, Edwin B. 193,132.
Rhoads, Delmar D. Combined food storage and cafeteria counter unit. 192,726, 5–8–62, Cl. D14—3.
Rhoads, Edwin B., to Rhoads and Co. Surgeon's gown. 193,132, 7–3–62, Cl. D3—26.
Ribbens, Jacob J., H. H. Leete, and F. S. Foote, Jr., to Tab Products Co. Cabinet. 192,085, 1–16–62, Cl. D33—19.
Rice, Albert E.: *See*—
Rice, Ford A. and A. E. 192,786.
Rice, Ford A. and A. E. 193,467.
Rice, Albert E. and F. A. Ball type caster. 192,596, 4–17–62, Cl. D10—6.
Rice, Ford A.: *See*—
Rice, Albert E. and F. A. 192,596.
Rice, Ford A. and A. E. Combined hood and fork for a caster. 192,786, 5–15–62, Cl. D10—6.
Rice, Ford A. and A. E. Caster. 193,467, 8–28–62, Cl. D10—6.
Richards, William H., Jr., and C. H. Shreve. Ammunition dispenser. 192,100, 1–16–62, Cl. D52—2.
Richardson, Newton W., to Natural Gas Equipment Inc. Fence. 193,482, 8–28–62, Cl. D28—1.
Richfield Oil Corp.: *See*—
Travers, William J., and Kehoe. 193,289.
Rickard, Roy. Divining rod. 192,048, 1–9–62, Cl. D52—1.
Reineman, Richard G., Hart, and Schaefer. 192,086.
Riddle, Richard L., and L. S. Moskowitz. Educational game board. 193,146, 7–3–62, Cl. D34—5.
Ridenour, Stewart J., and A. Pickinpaugh, to Cook Chemical Co. Liquid container and hand pump spray unit. 192,429, 3–20–62, Cl. D31—3.
Riegel Textile Corp.: *See*—
Kelly, Jerome F. 192,905.
Riegelman, Harry M., to Security Aluminum Corp. Handle and latch combination for doors. 192,211, 2–13–62, Cl. D10—8.
Ries, William M., to Wheeling Steel Corp. Expanded metal sheet. 192,976, 6–5–62, Cl. D54—2.
Ries, William M., to Wheeling Steel Corp. Expanded metal sheet. 193,683, 9–25–62, Cl. D54—2.
Ries, William M., to Wheeling Steel Corp. Expanded metal sheet. 193,684, 9–25–62, Cl. D54—2.
Rigidized Metals Corp.: *See*—
Campbell, Donald H., and Schad. 193,907.
Rijnovan, Lawrence. Container cap or similar article. 192,758, 5–8–62, Cl. D58—26.
Riley, Eileen, and V. G. Clarke, to Lever Brothers Co. Bottle. 194,165, 11–27–62, Cl. D58—6.
Riley, Robert D., to Demco Library Supplies. Book end. 193,716, 10–2–62, Cl. D33—3.
Rinaldi, Joseph J., to Aldon Industries Corp. Air purifier. 192,560, 4–10–62, Cl. D16—2.
Ringlen, Arthur, to J. E. Plastics Mfg. Corp. Molded container and cover therefor. 194,166, 11–27–62, Cl. D58—12.6.
Ritts, Herbert. Sofa or the like. 193,929, 10–30–62, Cl. D15—11.
Ritts, Herbert. Chair or the like. 193,980, 11–6–62, Cl. D15—1.
Riv Officine di Villar Perosa S.p.A.: *See*—
Barberis, Giovanni. 192,938.
Rival Mfg. Co.: *See*—
Talge, Henry J., Grant, and Chappell. 192,079.
Talge, Henry J., Grant, and Chappell. 192,080.
Rivera, Maximino M. Wall lamp. 193,107, 6–26–62, Cl. D48—4.
Rivera, Maximino M. Ceiling lamp. 193,405, 8–14–62, Cl. D48—20.
Robbins, Alfred. Combination slide caliper and protractor. 194,242, 12–18–62, Cl. D52—6.
Robert Hosiery Mills, Inc.: *See*—
Servin, Robert S. 193,971.
Roberts, Bruce L., to Owens-Illinois Glass Co. Jar. 193,913 10–23–62, Cl. D58—25.
Roberts, Harold J.: *See*—
Thomas, De Loss V., and Roberts. 192,712.
Robertson Photo-Mechanix, Inc.: *See*—
Sippel, Charles P., Jr., and Wantelista. 192,055.
Robeson, Rochester, Corp.: *See*—
Weiss, Max D. 194,117.
Robins, Seymour, to Diamond National Corp. Packaged golf balls. 194,243, 12–18–62, Cl. D58—2.
Rockola, David C., to Rock-Ola Mfg. Corp. Record magazine for automatic phonograph. 193,950, 10–30–62, Cl. D56—4.
Rock-Ola Mfg. Corp.: *See*—
Rockola, David C. 193,950.
Rockwood & Co.: *See*—
Theilig, Arthur W. 193,448.
Rodgers, James L. Battery cap. 193,713, 10–2–62, Cl. D26—6.
Rodriguez, Raoul E.: *See*—
Curtin, Paul J., Smith, and Rodriguez. 192,381.
Rogers, Edward A., to Wilkinson Sword Ltd. Pruning shears. 194,185, 12–4–62, Cl. D22—4.
Rogers, John C., to Crown Stove Works. Stove. 192,624, 4–17–62, Cl. D81—4.
Rogers, Murray K. Educational template. 192,383, 3–13–62, Cl. D52—6.
Rogers, William C. Aircraft antenna lead through insulator. 193,851, 10–16–62, Cl. D26—10.
Roggenbach, De Forest R.: *See*—
Delaney, Carroll S., and Roggenbach. 192,286.
Rohleffs, William A. Liquid sipping tube or the like. 193,263, 7–24–62, Cl. D2—3.
Rolley, Charles A., and E. H. Southwell, to Closure Specialty Co. Collapsible tube. 194,222, 12–11–62, Cl. D58—17.
Rollitt, John, to Armstrong Patents Co. Ltd. Hydraulic pump. 192,062, 1–9–62, Cl. D65—1.
Rolls, Elmer C. Comb. 192,201, 2–6–62, Cl. D86—8.
Roloc Inc.: *See*—
Farber, Edward R. 193,411.
Romero, Victor R., to Union Steel Products Co. Disk storage rack. 193,524, 9–4–62, Cl. D44—29.
Rommel, Alex A. Airship. 192,106, 1–16–62, Cl. D71—1.
Rommel, Alex A. Airship. 192,715, 5–1–62, Cl. D71—1.
Ronson Corp.: *See*—
Rappoport, Seymour. 193,406.
Smith, James D., and Rappoport. 192,890.
Smith, James D., and Rappoport. 193,869.
Roop, Nathan W., to Columbus Plastic Products, Inc. Watering can or similar article. 192,519, 4–3–62, Cl. D35—1.
Rosen, Norman J., M. H. Best, and C. A. Sambammer, to Datex Corp. Input component for a data processing system. 194,150, 11–27–62, Cl. D2—5.
Rosenburgh, Norman J., and R. M. Vigna. Printer accessory for a film reader. 193,364, 8–7–62, Cl. D61—1.
Rosenfeld, Alexander. Artist's easel. 193,665, 9–25–62, Cl. D29—20.
Rosenthal-Porzellan Aktiengesellschaft: *See*—
Wiinblad, Björn. 192,014.
Wiinblad, Björn. 192,176.
Rosinski, Bill B.: *See*—
Keller, Nicholas W., and Rosinski. 193,204.
Rosner, Joseph, to Scroll, Inc. Chair. 192,006, 1–2–62, Cl. D15—1.
Ross, Arthur, and G. Manoogian. Lavatory faucet. 193,922, 10–23–62, Cl. D91—3.
Ross, Irwin. Combined pen and letter opener. 192,309, 2–27–62. Cl. D74—17.
Ross, Phillip J. Floor seat. 194,234, 12–18–62, Cl. D15—1.
Rossetti, Charles, to Simeca S.A. Key cutter. 193,026, 6–12–62, Cl. D55—1.
Roth, Frank B., to Atlas Tool & Mfg. Co. Casing for a portable electric heater. 193,538, 9–4–62, Cl. D81—10.
Rothgart, Albert: *See*—
Sobel, Henry I., and Rothgart. 194,181.
Rothgart, Albert, to Visionade Mfg. Co., Inc. Anti-glare visor for automobile or the like. 192,028, 1–9–62, Cl. D14—6.
Rothman, Henry H. Electric broiler. 194,136, 11–20–62, Cl. D81—10.
Rotor Electric Co. Ltd.: *See*—
McIntosh, Lawrie G. 192,626.
Rowe Plastics & Die Casting Co.: *See*—
Ewald, Ronald F. 192,741.
Rowland, Donald G., L. Pannone, and W. F. Conway, to The B. F. Goodrich Co. Carpet underlay. 193,050, 6–12–62, Cl. D92—4.
Rowse, Clifford L. Desk. 193,060, 6–19–62, Cl. D33—7.
Royal Appliance Mfg. Co.: *See*—
Kasper, Elmer J. 193,172.
Rubbermaid Inc.: *See*—
Moore, Charles G. 192,017.
Smith, Robert M. 194,232.
Rubinstein, Helena, Inc.: *See*—
Silson, Victor. 192,673.
Ruchlis, Hyman, and E. C. Berkeley, to Science Materials Center. Teaching device demonstrating binominal distribution curves. 192,221, 2–13–62, Cl. D25—1.
Rudnick, Martin E. Tooth brush. 192,025, 1–9–62, Cl. D9—2.
Ruger, William B. Revolver. 192,508, 4–3–62, Cl. D30—1.
Ruhnke, Edward J., to Hill-Shaw Co. Coffee maker. 194,091, 11–20–62, Cl. D2—3.
Ruiter, Jacob H. Two handed mitten or similar article. 192,-992, 6–12–62, Cl. D3—11.
Russell, Charles: *See*—
Ferar, Montgomery, and Russell. 193,039.
Russell, Fred J., and G. B. Solovieff; said Solovieff assor. to said Russell. Escutcheon. 193,528, 9–4–62, Cl. D50—6.
Russell, Fred J., and G. B. Solovieff; said Solovieff assor. to said Russell. Escutcheon. 194,159, 11–27–62, Cl. D50—6.

Russell, James E. Combined clock and sign display case or similar article. 192,035, 1–9–62, Cl. D42—7.

Russo, John A.: *See*—
Aldrich, Robert B., and Russo. 194,167.

Rutman, Ralph G., to Mack Trucks, Inc. Truck. 193,330, 8–7–62, Cl. D14—3.

Rutman, Ralph G., and H. J. Warmkessel, to Mack Trucks, Inc. Combined bracket and grab handle. 193,179, 7–10–62, Cl. D10—8.

Rybicki, Irvin W., to General Motors Corp. Wheel cover. 193,334, 8–7–62, Cl. D14—30.

Rybicki, Irvin W., to General Motors Corp. Wheel cover. 193,335, 8–7–62, Cl. D14—30.

Rybicki, Irvin W., and S. R. Willen, to General Motors Corp. Automobile. 192,242, 2–20–62, Cl. D14—18.

Sabo, Frank J., to Arrowhead Engineering Corp. Gas burner. 193,046, 6–12–62, Cl. D81—10.

Sadek, Charles. Multiple window picture frame or the like. 193,143, 7–3–62, Cl. D29—20.

Safianoff, Albert. Hair treating applicator. 193,375, 8–7–62, Cl. D86—10.

Safway Steel Products, Inc.: *See*—
Stefe, Frank J. 193,792.

Saks, David and F. Combined bobeche and candlestick ornament. 193,526, 9–4–62, Cl. D48—2.

Saks, David, and F. Combined bobeche and candlestick ornament. 194,240. 12–18–62, Cl. D48—2.

Saks, Fay: *See*—
Saks, David and F. 193,526.
Saks, David, and F. 194,240.

Salm, Arthur, Inc.: *See*—
Bieger, Walter I. 193,682.
Laughlin, Clayton A. 192,375.
Wildgen, Leo F. 192,606.

Samhammer, Clair A.: *See*—
Best, Melvin H., and Samhammer. 193,038.
Best, Melvin H., and Samhammer. 193,412.
Inatomi, Charles T., Best, and Samhammer. 193,712.
Rosen, Norman J., Best, and Samhammer. 194,150.

Samica Corp.: *See*—
Briskin, Theodore S., and Pastor. 193,514.

Sanborn, Phillip D.: *See*—
Lower, James C., Johnson, and Sanborn. 192,392.

Sanders, Fred. Shirt cuff. 193,760, 10–9–62, Cl. D3—8.
Baughman, Karl T. 193,815.

Sanders, Morris R. to Red-Dee Pins, Inc. Clothespin. 193,510, 9–4–62, Cl. D17—6.

Sanderson, Leon C.: *See*—
Vogt, Noland E., and Sanderson. 193,661.

Sanderson, Leon C., and N. E. Vogt, to General Electric Co. Data receiving and transmitting console. 194,211, 12–11–62, Cl. D21—5.

Sanford, Christopher B. Traffic control sign for highway intersections or the like. 192,833, 5–15–62, Cl. D72—1.

Saphier, Michael, to Lincoln Metal Products Corp. Canister for sugar. 194,272, 12–25–62, Cl. D44—6.

Saphier, Michael, to Lincoln Metal Products Corp. Canister for coffee. 194,273, 12–25–62, Cl. D44—6.

Saphier, Michael, to Lincoln Metal Products Corp. Bread box. 194,274, 12–25–62, Cl. D44—6.

Saphier, Michael, to Lincoln Metal Products Corp. Container for paper. 194,275, 12–25–62, Cl. D44—6.

Saphier, Michael, to Lincoln Metal Products Corp. Canister for tea. 194,276, 12–25–62, Cl. D44—6.

Saphier, Michael, to Lincoln Metal Products Corp. Cake cover. 194,278, 12–25–62, Cl. D44—19.

Saphier, Michael, Associates, Inc.: *See*—
Lerner, Lawrence. 192,671.
Lerner, Lawrence. 192,776.
Lerner, Lawrence. 193,963.
Tepper, Gene S. 193,338.
Tepper, Gene S. 193,348.
Tepper, Gene S. 193,938.

Sarafan, Robert E., to Flexible Plastics Corp. Bottle. 192,655, 4–24–62, Cl. D58—3.

Sarah, Thomas F. Combined fish and depth finder. 193,111, 6–26–62, Cl. D52—6.

Sarah, Thomas F., to The Enterprise Mfg. Co. Fish finder or similar article. 193,489, 8–28–62, Cl. D52—6.

Sardis Luggage Co.: *See*—
Gehrie, Charles S. 193,234.

Sargent, Raymond W., to Simmonds Precision Products, Inc. Aircraft flight instrument. 193,357, 8–7–62, Cl. D52—6.

Sasada, Sukesaburo, to C. Itoh & Co. (America) Inc. Inflatable toy bird or the like. 192,250, 2–20–62, Cl. D34—2.

Sasnett, Bolling H., Jr. Gasoline pump casing. 193,577, 9–11–62, Cl. D52—2.

Sawtelle & Rosprim: *See*—
Nilsen, Alfred. 194,089.

Saxe, Eliot. Napkin dispenser. 192,696, 5–1–62, Cl. D52—2.

Sayen, Serge: *See*—
Farcy, Paul, and Sayen. 192,354.

Schaef, Harold M. Vending machine for pencils or the like. 192,301, 2–27–62, Cl. D52—3.

Schaefer, George E.: *See*—
Reineman, Richard G., and Schaefer. 192,010.
Reineman, Richard G., and Schaefer. 193,009.
Reineman, Richard G., and Schaefer. 194,037.
Norris, Robert B. 192,198.

Schaefer, George E., to Brunswick Corp. Bottle holder attachment for chairs or the like. 192,677, 5–1–62, Cl. D4—3.

Schaefer, Leo V., to Glawe Mfg. Co. Carrying case for ski equipment. 193,967, 10–30–62, Cl. D87—5.

Schaffer, Martin B., to Acoustics Development Corp. Telephone booth. 193,386, 8–14–62, Cl. D13—1.

Schallinger, Bernard H.: *See*—
Ranoha, Stephen, and Schallinger. 194,265.

Schallinger, Blanche: *See*—
Ranoha, Stephen, and Schallinger. 194,265.

Schandelmeier, Chester T. Skiing exercise device or the like. 192,517, 4–3–62, Cl. D34—14.

Scharff, Arthur and F., and F. Di Giovanni. Game board. 192,690, 5–1–62, Cl. D34—5.

Scharff, Fred: *See*—
Scharff, Arthur and F., and Di Giovanni. 192,690.

Schenley Industries, Inc.: *See*—
Du Pree, Ernest L. 192,826.
Du Pree, Ernest L. 192,942.
Heintze, Walter T. 192,709.
Hewitt, Arthur. 192,537.

Scherr-McDermott, Inc.: *See*—
Musiekiuk, Alexander H. 192,639.

Scheurman, Otto A. Altar cloth or similar article. 192,720, 5–1–62, Cl. D92—1.

Schild, Edwin F. Check out counter. 192,545, 4–3–62, Cl. D80—2.

Schladermundt, Peter, and J. D. Wark, to The B. F. Goodrich Co. Insulated bucket. 194,074, 11–13–62, Cl. D58—17.

Schlaechter, John H., to Industrial Nucleonics Corp. Industrial gauging head for detecting material properties. 192,-749, 5–8–62, Cl. D52—6.

Schlager, Joseph, and J. L. Edler. Canopy. 192,212, 2–13–62, Cl. D13—3.

Schlumberger Well Surveying Corp.: *See*—
Lebourg, Maurice P. 193,555.
Lebourg, Maurice P. 193,556.
Lebourg, Maurice P. 193,557.

Schlushin, Peter. Insulating jacket for pots or the like. 193,730, 10–2–62, Cl. D44—10.

Schmidt, Del, to Cheramy, Inc. Powder puff or the like. 192,237, 2–13–62, Cl. D86—10.

Schmiedl, Gustav. Faucet shell. 192,405, 3–13–62, Cl. D91—3.

Schmidt, Jacob. Combined refuse receptacle and support therefor. 193,534, 9–4–62, Cl. D58—17.

Schmuck, Peter. Motion picture camera or the like. 192,393, 3–13–62, Cl. D61—1.

Schneider, Ernest, to Sicura Watch Co. Ltd. Watch. 192,-093, 1–16–62, Cl. D42—3.

Schneider, Ernest, to Sicura Watch Co. Ltd. Wrist watch. 193,570, 9–11–62, Cl. D42—8.

Schneider, Jos., & Co., Optische Werke: *See*—
Baab, Albert. 194,129.
Himmelsbach, Paul. 192,706.

Schneider, John. Combined room divider and twin bed unit. 193,718, 10–2–62, Cl. D33—19.

Schneider, William S.: *See*—
Ebbert, John H., and Schneider. 193,811.

Schneider, William S., to Ultra-Pak, Inc. Tetrahedral shaped container. 192,941, 5–29–62, Cl. D58—2.

Schnur, Martin, and M. Appel, to Deka Plastics, Inc. Pitcher or similar article. 194,116, 11–20–62, Cl. D44—21.

Schnur, Martin, and M. Appel, to Deka Plastics, Inc. Salt shaker or similar article. 194,156, 11–27–62, Cl. D44—22.

Schoeffel, Dietmar M. Monochromator. 193,582, 9–11–62, Cl. D57—1.

Schreckengost, Viktor, to The Murray Ohio Mfg. Co. Bicycle headlight. 194,158, 11–27–62, Cl. D48—24.

Schroeder, Arthur G. Golf range finder. 194,040, 11–13–62, Cl. D34—5.

Schroeder, Wilson: *See*—
Rettke, Julius L. 194,174.

Scholz, Donald J. Scholz Homes, Inc. House. 192,725, 5–8–62. Cl. D13—1.

Scholz, Donald J., to Scholz Homes, Inc. House. 193,422, 8–21–62, Cl. D13—1.

Scholz Homes, Inc.: *See*—
Scholz, Donald J. 192,725.
Scholz, Donald J. 193,422.

Schoolcraft, Paul B. Game board. 192,810, 5–15–62, Cl. D34—5.

Schram, Richard R., 10% to M. Nagy and 10% to S. P. Owens. Tick-tack-toe game apparatus. 192,516, 4–3–62, Cl. D34—5.

Schreck, Emanuel. Umbrella. 192,109, 1–16–62, Cl. D88—3.

Schreiber, L. D., & Co., Inc.: *See*—
Bush, Robert G. 192,618.

Schuessler, Charles J., and H. Wilzig. Door holder for mounting on walls and doors. 192,410, 3–20–62, Cl. D10—7.

Schulte, John C.: *See*—
Marin, Mario J., and Schulte. 194,186.

Schultz, Edward W.: *See*—
Johnson, Norval J., and Schultz. 194,238.

Schurer, Arnold: *See*—
Sieber, Peter, and Schurer. 193,267.

Schuyler, Eugene C. Game board. 193,726, 10–2–62, Cl. D34—5.

Schwartz, Bernard, to Globe Rubber Products Corp. Swimming mask. 193,048, 6–12–62, Cl. D83—1.

Schwartz, Elvin. Ash tray. 193,493, 8–28–62, Cl. D85—2.

Schwartz Engraving & Die Works, Inc.: *See*—
Weiss, Leslie. 192,131.

Schwartz, Ira W., to Landers, Frary & Clark. Can opener. 193,988, 11–6–62, Cl. D22—2.

Schwartz, John J., to Standard Packaging Corp. Butter dish. 192,870, 5–22–62, Cl. D44—5.

Schwartz, Morris, and W. Castedello. Combined motion picture projector and film editor. 192,234, 2–13–62, Cl. D61—1.

Schweighofer, Horst M., and H. M. Passman. Flight director aircraft instrument. 194,191, 12–4–62, Cl. D52—6.

Schwester, Daniel P.: *See*—
Martin, Harold B., and Schwester. 192,940.

Schwind, Paul J., to Kawneer Co. Door push bar. 193,502, 9–4–62, Cl. D10—8.

Science Materials Center: *See*—
Ruchlis, Hyman, and Berkeley. 192,221.

Scott, David E.: *See*—
Gribble, Joseph J., and Scott. 193,141.

Scott, Lydia J. Twin roll toilet tissue holder. 194,259, 12–25–62, Cl. D4—3.

Scott Thermo-Meter Corp.: *See*—
De Martin, Charles L., and Smith. 192,233.

Scripto, Inc.: *See*—
Lovejoy, Charles K. 194,295.
Lovejoy, Charles K. 194,296.

Scroll, Inc.: *See*—
Rosner, Joseph. 192,006.

Scruci, Guy. Foot stool. 194,032, 11–13–62, Cl. D15—8.

Sears, Roebuck and Co.: *See*—
Alvaney, Allan J. 192,088.
Alvaney, Allan J. 192,089.
Alvaney, Allan J. 192,171.
Alvaney, Allan J. 193,013.
Alvaney, Allan J. 193,150.

Seay, Tym F.: *See*—
McElvoy, Alfred P., and Seay. 192,849.

Security Aluminum Corp.: *See*—
Riegelman, Harry M. 192,211.

Sedaris, Louis H.: *See*—
Bixler, Loring C., Hayes, and Sedaris. 193,660.

Seeburg Corp., The: *See*—
McElroy, David C. 192,594.

Seery, Robert F., to Julius Blum & Co., Inc. Grillework for treillages, room dividers or the like. 192,651, 4–24–62, Cl. D54—2.

Seery, Robert F., to Julius Blum & Co., Inc. Grillework for treillages, room dividers or the like. 192,652, 4–24–62, Cl. D54—2.

Segui, Felis T. Double shoe horn. 193,233, 7–10–62, Cl. D36—10.

Seigel, Lawrence G., and S. Stasenko, to Lovell Mfg. Co. Flexible coupling for shafts or the like. 193,027, 6–12–62, Cl. D55—1.

Sekisui Chemical Co., Ltd.: *See*—
Nakamura, Tsugio. 193,508.

Selby, John. Parking canopy. 192,464, 3–27–62, Cl. D13—1.

Selick, David A. Photosensitive switch container. 193,710, 10–2–62, Cl. D26—1.

Selmer, H. & A., Inc.: *See*—
Benjamin, E. Burton. 192,551.
Benjamin, E. Burton. 192,591.

Sena, Marvin. Combined fishing reel and signal for ice fishing. 193,856, 10–16–62, Cl. D31—4.

Senne, David L. Slalom water ski foot pad. 193,958, 10–30–62, Cl. D71—1.

Senne, David L. Water ski skeg. 194,171, 11–27–62, Cl. D71—1.

Servin, Robert S., to Robert Hosiery Mills, Inc. Slipper sock. 193,971, 11–6–62, Cl. D7—7.

Severance, Ellsworth W., ⅓ to R. E. Severance, ⅓ to W. L. Severance, and ⅓ to Mrs. P. E. Herrmann. Snow shovel. 193,439, 8–21–62, Cl. D39—1.

Severance, Raymond E.: *See*—
Severance, Ellsworth W. 193,439.

Severance, William L.: *See*—
Severance, Ellsworth W. 193,439.

Severson, Gordon, to Minnesota Mining and Mfg. Co. Portable dictating machine. 193,554, 9–11–62, Cl. D26—14.

Shames, Harold, and S. J. Faucet handle. 194,228, 12–11–62, D91—3.

Shames, Sidney J.: *See*—
Shames, Harold, and S. J. 194,228.

Shannon, Robert B.: *See*—
Gillmore, Kenneth B., and Shannon. 193,255.

Sharp, Olen D. Game playing board. 193,939, 10–30–62, Cl. D34—5.

Shaver Specialty Co.: *See*—
Faus, William F. 193,945.

Shaw, Melehia M. Combined altar and prayer bench. 192,323, 3–6–62, Cl. D29—23.

Shekut, Edward: *See*—
Ashley, Walter M., Jr., Shekut, and Syrett. 193,503.

Sheltmire, William H., to Olin Mathieson Chemical Corp. Bottle. 192,580, 4–10–62, Cl. D58—8.

Shelton, Winston L.: *See*—
Bach, Carl G., Jr., and Shelton. 193,067.

Shepard, Engineering Co.: *See*—
Shepard, Irving A. 194,214.

Shepard, Irving A., to Shepard Engineering Co. Playground climbing device. 194,214, 12–11–62, Cl. D34—5.

Shepherd Casters, Inc.: *See*—
Price, Paul S., and Greene. 193,421.

Sheppley, William S., Jr.: *See*—
David, William K., and Sheppley. 193,782.

Sherby, Sydney S.: *See*—
Anderson, Robert R., Herda, Hiller, Jacobsen, Nichols, and Sherby. 192,666.

Sherman, H. B., Mfg. Co.: *See*—
Turner, George L. 192,133.

Sherman, Ralston M. Portable incinerator. 192,548, 4–3–62, Cl. D81—1.

Sherman, William S., to Coy Corp. Telephone index or the like. 192,276, 2–20–62, Cl. D74—1.

Sherron, Percival H. Telephone booth. 192,597, 4–17–62, Cl. 13—1.

Sherron, Percival H. Telephone booth. 192,630, 4–24–62, Cl. D13—1.

Sherron, Percival H. Telephone booth. 192,631, 4–24–62, Cl. D13—1.

Sherron, Percival H. Telephone booth. 192,632, 4–24–62, Cl. D13—1.

Sherron, Percival H. Telephone booth. 192,789, 5–15–62, Cl. D13—1.

Sherron, Percival H. Telephone booth. 192,790, 5–15–62, Cl. D13—1.

Shimano, Moto, to General Controls Co. Weather instrument. 192,152, 1–30–62, Cl. D52—7.

Shinkawa, Stanley O.: *See*—
Peck, Vernon P., and Shinkawa. 193,105.

Shinoda, Lawrence, to General Motors Corp. Automobile. 194,029, 11–13–62, Cl. D14—3.

Shore-Calnevar, Inc.: *See*—
Carlson, Arthur F. 193,295.
Zierhut, Clarence D. 192,287.
Zierhut, Clarence D. 192,319.

Shore, Edward H., to Barcalo Mfg. Co. Slip joint pliers. 192,449, 3–20–62, Cl. D54—13.

Shotmeyer, Albert M. Service station building or the like. 193,770, 10–9–62, Cl. D13—1.

Shreve, Curtis H.: *See*—
Richards, William H., Jr., and Shreve. 192,100.

Shumaker, Hugh W. Automobile. 193,425, 8–21–62, Cl. D14—6.

Shumaker, Hugh W. Truck. 193,774, 10–9–62, Cl. D14—6.

Shure Brothers Inc.: *See*—
Deschamps, Robert L. 193,006.
Deschamps, Robert L. 193,934.
Deschamps, Robert L., and Petrie. 194,151.
Waxman, Jay S., and Miller. 193,007.
Waxman, Jay S., and Miller. 193,854.

Sicura Watch Co., Ltd.: *See*—
Schneider, Ernest. 192,093.
Schneider, Ernest. 193,570.

Sieb, Robert G. Computer. 194,161, 11–27–62, Cl. D52—6.

Sieber, Peter, to Olympia Werke A.G. Computing machine or the like. 192,057, 1–9–62, Cl. D64—11.

Sieber, Peter, to Olympia Werke A.G. Computing machine or the like. 192,659, 4–24–62, Cl. D64—11.

Sieber, Peter, to Olympia Werke A.G. Computing machine or the like. 192,661, 4–24–62, Cl. D64—11.

Sieber, Peter, to Olympia Werke A.G. Computing machine or the like. 192,662, 4–24–62, Cl. D64—11.

Sieber, Peter, and A. Schurer, to Olympia Werke A.G. Dictating machine. 193,267, 7–24–62, Cl. D26—14.

Sidney Machine Tool Co., The: *See*—
Gerchow, Wilbur R. 192,263.

Siegel, Milton M., to Columbia Plastics Corp. Boat. 193,288, 7–24–62, Cl. D71—1.

Siegel, Milton M., to Columbia Plastics Corp. Boat. 193,453, 8–21–62, Cl. D71—1.

Siegler Corp., The: *See*—
Anderson, Douglas W. 193,646.

Sierre Electric Corp.: *See*—
Bordner, Lee T. 193,003.

Sigford, John V., to Minneapolis-Honeywell Regulator Co. Guided missile. 192,582, 4–10–62, Cl. D71—1.

Sigford, John V., to Minneapolis-Honeywell Regulator Co. Guided missile. 192,831, 5–15–62, Cl. D71—1.

Sigma Instruments, Inc.: *See*—
Garnick, Philip, Benner, and Wynne. 192,358.

Signal-Stat Corp.: *See*—
Bruce Donald S., and Dickson. 193,633.

Silber, Bronya. Power source unit for a beautician's facial massager. 192,107, 1–16–62, Cl. D83—1.

Silbereis, Joseph A., to The Huffman Mfg. Co. Tandem bicycle frame. 193,462, 8–21–62, Cl. D90—8.

Silson, Victor, to Helena Rubinstein, Inc. Lipstick. 192,673, 4–24–62, Cl. D86—10.

Silver, Donald J., to Silver Knit Hosiery Mills, Inc. Combination hosiery rider and hanger. 193,256, 7–17–62, Cl. D80—8.

Silver Knit Hosiery Mills, Inc.: *See*—
Silver, Donald J. 193,256.

Silverman, Sheldon, to Southbridge Plastic Products, Inc. Printed plastic sheet material. 192,988, 6–5–66, Cl. D87—3.

Silvis, Robert T. Vehicle milk tank or the like. 192,686, 5–1–62, Cl. D23—1.

Simeca S.A.: *See*—
Rossetti, Charles. 193,026.

Simmonds Precision Products, Inc.: *See*—
Sargent, Raymond W. 193,357.

Simoniz Co.: *See*—
Anderson, Douglas W., Goldsmith, Hester, and Ortega. 194,071.

Simpson, James E. Telephone stand. 192,926, 5–29–62, Cl. D33—3.

Simpson, Peter K.: *See*—
Dabich, George. 192,082.

Simpson Timber Co.: *See*—
Cardozo, Danforth, Jr., and Bradd. 194,098.
Jackson, Alban G. 192,073.

Simpson Timber Co.: *See*—Continued
Jackson, Alban G. 192,724.
Thompson, Robert F. 193,328.
Sinaiko, Edwin S. Holder for paper cup or the like. 192,814. 5–15–62, Cl. D44—10.
Singer Mfg. Co., The: *See*—
Harling, Otto K., and Dubman. 193,867.
Park, Malcolm S. 192,712.
Park, Malcolm S. 194,252.
Szuba, Walter D., and Bruder. 193,695.
Szuba, Walter D., and Bruder. 193,696.
Singer, Roger M., to Snyder Mfg. Co. Combined pole lamp and antenna for television or the like. 193,277, 7–24–62, Cl. D48—20.
Sippel, Charles P., Jr., and W. Wanielista, to Robertson Photo-Mechanix, Inc. Combined copying camera and print finishing cabinet or the like. 192,055, 1–9–62, Cl. D61—1.
Skaggs, Warder H. Combination automobile and airplane. 192,837, 2–6–62, Cl. D71—1.
Skalet, Philip. Gem setting. 193,865, 10–16–62, Cl. D45—1.
Skiera, Richard J., and P. K. Phillips. Dispenser for hot chocolate or the like. 193,418, 8–21–62, Cl. D2—3.
Skupas, John A., and I. Stollman, to Faultless Caster Corp. Furniture caster. 193,466, 8–28–62, Cl. D10—6.
Skyway Luggage Co.: *See*—
Gerbrie, Charles S. 194,160.
Slais, Joseph A. Game board indicator. 192,033, 1–9–62, Cl. D34—5.
Slauer, Richard G.: *See*—
Thomsen, Max M., and Slauer. 193,802.
Sleeman, William C., Jr., and T. A. Toll, to United States of America, National Aeronautics and Space Administration. Aircraft. 193,454, 8–21–62, Cl. D71—1.
Sloat, Donald F. Coach body for camping or the like. 192,795, 5–15–62, Cl. D14—3.
Sly, Robert L. Driver for a universal-joint removing tool. 193,580, 9–11–62, Cl. D54—13.
Smith, Bernard N., to General Motors Corp. Wheel cover. 194,183, 12–4–62, Cl. D14—30.
Smith, Bobby L. and J. Child's car chair. 193,506, 9–4–62, Cl. D15—1.
Smith-Corona Marchant, Inc.: *See*—
Abend, Chester J., and Kober. 193,816.
Chase, David O., and Stevens. 192,194.
Hanson, Thomas E., and Abend. 194,080.
Smith, Donald M. Boat hull. 192,196, 2–6–62, Cl. D71—1.
Smith, Dudley H., to Keyes Fibre Co. Hatbox stay. 193,282, 7–24–62, Cl. D58—16.
Smith, Edward B., Jr.: *See*—
Curtin, Paul J., Smith, and Rodriguez. 192,381.
Smith, Edwin J.: *See*—
De Martin, Charles L., and Smith. 192,233.
Smith, George J. Holder for sign cards or the like. 194,019, 11–13–62, Cl. D1—3.
Smith, James D., and S. Rappoport, to Ronson Corp. Combined closure cap and dispenser. 192,890, 5–22–62, Cl. D58—26.
Smith, James D., and S. Rappoport, to Ronson Corp. Lighter or similar article. 193,869, 10–16–62, Cl. D48—27.
Smith, Jean: *See*—
Smith, Bobby L. and J. 193,506.
Smith, Lloyd T.: *See*—
Arnett, George A., and Smith. 192,445.
Smith, Marion J. E., and P. K. Lowe, to Marioness & Co., Inc. Wallet. 192,674, 4–24–62, Cl. D87—3.
Smith, Marvin W. Set of playing cards. 193,623, 9–18–62, Cl. D34—13.
Smith, Raymond A.: *See*—
Bateman, Coates F., Mankin, Copony, Smith, and Monigle. 192,817.
Bateman, Coates F., Mankin, Copony, Smith, and Monigle. 192,818.
Bateman, Coates F., Mankin, Copony, Smith, and Monigle. 192,819.
Smith, Robert L.: *See*—
Ferrari, William A., Anderson, and Smith. 193,973.
Smith, Robert M., to Rubbermaid Inc. Combined stove top mat and cutting board holder. 194,232, 12–18–62, Cl. D9—6.
Smolen, Benjamin E., and G. Lerner. Strip of pressure sensitive looseleaf reinforcements. 193,224, 7–10–62, Cl. D59—2.
Snavely, Joseph W., to Chain Belt Co. Combined belt conveyor span and pedestals. 192,386, 3–13–62, Cl. D55—1.
Snell, William R. Rear view mirror. 193,474, 8–28–62, Cl. D14—6.
Snow-Nabstedt Gear Corp., The: *See*—
McCready, Harry E., and Countryman. 192,997.
Snyder, Arthur P. Child's rocking chair. 192,598, 4–17–62, Cl. D15—6.
Snyder Mfg. Co.: *See*—
Singer, Roger M. 193,277.
Sobel, Henry I., and A. Rothgart. Combined mirror and article holding case or similar article. 194,181, 12–4–62, Cl. D14—6.
Sobel, Theodore: *See*—
Goldstein, Arthur, and Sobel. 193,748.
Sobel, Theodore, and A. Goldstein, to Butler Industries, Inc. Display rack for clothing or like articles. 193,749, 10–2–62, Cl. D80—10.
Sohn, John P., J. C. Brighton, and R. M. Zenor, to Arvin Industries, Inc. Case for a portable heater. 192,775, 5–8–62, Cl. D81—10.
Sohn, Seymour. Warning signal for highways or the like. 192,488, 3–27–62, Cl. D72—1.
Solida Textil- und Netzwaren-Manufaktur Ruthard Dietze K.G.: *See*—
Dietze, Ruthard. 192,206.
Solomon, Mortimer J. Swim suit. 193,324, 8–7–62, Cl. D3—17.
Solovieff, George B.: *See*—
Russell, Fred J., and Solovieff. 193,528.
Russell, Fred J., and Solovieff. 194,159.
Somerville, Robert: *See*—
Hoff, Wally C., and Somerville. 192,396.
Southbridge Plastic Products, Inc.: *See*—
Silverman, Sheldon. 192,988.
Southcott, Marvin A., to Ampex Corp. Combined magnetic tape recorder and video monitor. 192,361, 3–13–62, Cl. D26—14.
Southeastern Metals Co.: *See*—
McMasters, Robert A. 192,189.
Southwell, Edward H.: *See*—
Rolley, Charles A., and Southwell. 194,222.
Space Technology Laboratories, Inc.: *See*—
Gjertson, Roy. 194,249.
Spalding, A. G., & Bros., Inc.: *See*—
Davis, Lynn A., Jr. 193,098.
Speakman Co.: *See*—
Landell, Harper, and Molzen. 194,229.
Special Instruments Laboratory, Inc.: *See*—
Neil, Hugh G., and Gladson. 193,935.
Speciale, Edward A. Combined night light and drying rack for condiment dispensers. 193,629, 9–18–62, Cl. D44—29.
Specialties, Inc.: *See*—
McClellan, Stephen A., and Fieldgate. 192,444.
Speed, Virgil U.: *See*—
Battie, Glenn L., Puerst, and Speed. 193,336.
Speidel Corp.: *See*—
Augenstein, Karl C. 193,203.
Augenstein, Karl C. 193,900.
Augenstein, Karl C. 193,901.
Augenstein, Karl C. 193,902.
Augenstein, Karl C. 193,903.
Cowan, Murray L. 192,123.
Cowan, Murray L. 193,019.
Cowan, Murray L. 193,442.
Cowan, Murray L. 193,443.
Cowan, Murray L. 193,444.
Cowan, Murray L. 193,445.
Cowan, Murray L. 194,057.
Spence, Henry U., to Upson Machine Products, Inc. Boat. 193,594, 9–11–62, Cl. D71—1.
Spencer Novelty Mfg. Co.: *See*—
Pelzman, Lee H. 192,096.
Spencer, Percival H. Motorized ornithopter. 193,484, 8–28–62. Cl. D34—15.
Sperry Rand Corp.: *See*—
Blanshine, Allison W., and Kermes. 194,112.
Eytel, Robert H., and Massarella. 192,918.
Kermes, Constantine J. 192,371.
Massarella, Richard S. 192,425.
Powell, David R. 193,850.
Sundberg, Carl W., and Ferar. 193,916.
Sundberg, Carl W., and Ferar. 193,917.
Spindler, Norman J., to Watson Mfg. Co., Inc. Cabinet. 192,121, 1–23–62, Cl. D33—19.
Spraying Systems Co.: *See*—
Wahlin, Fred W. 194,169.
Square D Co.: *See*—
Arneberg, Don J. 194,036.
Gribble, Joseph J., and Scott. 193,141.
Sundberg, Carl W., and Ferar. 192,008.
Staatsbedrijf Artillerie-Inrichtingen: *See*—
Jüngeling, Friedhelm G. 192,807.
Standard Brands Inc.: *See*—
Buckley, William H. 193,311.
Buckley, William H. 193,312.
Copeland, Arnold J., Baker, and Kimura. 194,290.
Standard Container, Inc.: *See*—
Vogel, William M., Jr. 192,509.
Standard Fire Alarm and Signal, Inc.: *See*—
Sullivan, Joseph T., 2nd. 194,293.
Standard Packaging Corp.: *See*—
Schwartz, John J. 192,870.
Vierling, John A. 193,745.
Stanley, Alfred H., to Joslyn Mfg. and Supply Co. Bracket for luminaire mast arm. 193,807, 10–9–62, Cl. D54—1.
Stark Ceramics, Inc.: *See*—
Brockman, Karl V. 193,002.
Stasenko, Stephen: *See*—
Seigel, Lawrence G., and Stasenko. 193,027.
Statler, William H., to Lockheed Aircraft Corp. Airplane. 193,368, 8–7–62, Cl. D71—1.
Statler, William H., H. E. Hoben, and C. A. Burton, to Lockheed Aircraft Corp. Airplane. 193,073, 6–19–62, Cl. D71—1.
Stefe, Frank J., to Safway Steel Products, Inc. Climbing type play device. 193,792, 10–9–62, Cl. D34—5.
Stehl, George: *See*—
Blod, Francis, and Stehl. 193,874.
Stehl, George R., and P. E. Blod, to Domus Products Inc. Box. 193,253, 7–17–62, Cl. D58—12.6.
Steineck, Rudolf. Stereoscopic camera. 193,693, 9–25–62, Cl. D61—1.
Steinke, James M.: *See*—
Hittinger, Paul, and Steinke. 193,820.

Steinman, Harold M.: *See*—
Webb, Horace L., and Steinman. 193,187.
Steinthal Sample Co., Inc.: *See*—
Jantzen, George H. 193,961.
Stelma, Gerard N. Combined doorknob and escutcheon. 194,122, 11–20–62, Cl. D50—6.
Stembridge Products, Inc.: *See*—
Stembridge, William F. 192,510.
Stembridge, William F., to Stembridge Products, Inc. Tail for fishing lure. 192,510, 4–3–62, Cl. D31—4.
Stenabaugh, Donald D.: *See*—
McCormick, Walter S., Jr., Stenabaugh, and Thompson. 192,802.
Stephens, Frank H., Jr.: *See*—
Lovejoy, Charles K., and Stephens. 192,899.
Stephens, Iva J. Canister. 192,742, 5–8–62, Cl. D44—6.
Stephens, Raymond E. Exercising device. 194,046, 11–13–62, Cl. D34—5.
Stepniewski, Wieslaw Z., to Boeing Airplane Co. Aircraft. 192,195, 2–6–62, Cl. D71—1.
Stepniewski, Wieslaw Z., to Boeing Airplane Co. Aircraft. 192,665, 4–24–62, Cl. D71—1.
Sterges, Alfred D., to Purex Corp., Ltd. Bottle. 192,269, 2–20–62, Cl. D58—5.
Sterges, Alfred D., to Purex Corp., Ltd. Bottle. 193,688, 9–25–62, Cl. D58—8.
Sterges, Alfred D., to Purex Corp., Ltd. Jug or similar article. 193,910, 10–23–62, Cl. D58—5.
Sterges, Alfred D., to Purex Corp., Ltd. Bottle or similar article. 193,911, 10–23–62, Cl. D58—6.
Sterges, Alfred D., to Purex Corp., Ltd. Jug or similar article. 193,953, 10–30–62, Cl. D58—5.
Sterges, Alfred D., to Purex Corp., Ltd. Bottle or similar article. 194,197, 12–4–62, Cl. D58—8.
Sterges, Alfred D., and D. E. G. Glassco, to Purex Corp., Ltd. Bottle. 192,268, 2–20–62, Cl. D58—5.
Sterges, Alfred D., and T. E. Williams, to Purex Corp., Ltd. Dispensing container. 193,221, 7–10–62, Cl. D58—17.
Sterling Plastics Co.: *See*—
Fleming, Jack F. 192,460.
Fleming, Jack F. 192,983.
Fleming, Jack F. 193,457.
Stevens, Adolph K., and W. F. Delfeld. Combined tooth brush rack and soap cake dispenser. 193,702, 10–2–62, Cl. D4—3.
Stevens, Clifford B. and D. B., to Gilson Bros. Co. Go-cart. 193,472, 8–28–62, Cl. D14—3.
Stevens, Clifford V., to Stevens Knitting Mills Pty. Ltd. Knitted textile fabric. 194,218, 12–11–62, Cl. D47—2.
Stevens, David B.: *See*—
Stevens, Clifford B. and D. B. 193,472.
Stevens, Emerson W.: *See*—
Knauer, Edward P., Stevens, and Zurawinski. 192,458.
Stevens, Francis J.: *See*—
Stevens, Jerome W. and F. J. 192,746.
Stevens, Jerome W. and F. J., to Astro-Nut, Inc. Running light for boats, cars and the like. 192,746, 5–8–62, Cl. D48—32.
Stevens Knitting Mills Pty. Ltd.: *See*—
Stevens, Clifford V. 194,218.
Stevens, Philip H.: *See*—
Chase, David O., and Stevens. 192,194.
Stevens, James: *See*—
O'Donaughy, James J., and Stewart. 192,481.
O'Donaughy, James J., and Stewart. 193,156.
O'Donaughy, James J., and Stewart. 193,157.
O'Donaughy, James J., and Stewart. 193,249.
Stewart-Warner Corp.: *See*—
Deadrick, James R. 194,189.
Dean, Arthur F., and Panzica. 194,190.
Stewart, William A. Hand reel for storing fishing lines or the like. 192,222, 2–13–62, Cl. D31—4.
Stickel, William A., Jr., to United States Steel Corp. Floor plate. 193,543, 9–11–62, Cl. D13—1.
Stiller, Edward A. Holder for silverware and the like. 193,641, 9–18–62, Cl. D58—26.
Stocker, Horace E., Jr. Hinge. 193,091, 6–26–62, Cl. D10—9.
Stoebener, Harry G. Fishing lure. 192,962, 6–5–62, Cl. D31—4.
Stollman, Irving: *See*—
Skupas, John A., and Stollman. 193,466.
Stoltz, Elmer J., to Friden, Inc. Console for computing machine. 193,429, 8–21–62, Cl. D26—5.
Stoltz, Elmer J., to Friden, Inc. Combined console and desk for a computing machine. 193,430, 8–21–62, Cl. D26—5.
Stone, Gerald S., to Johnson Bros. (Hanley) Ltd. Plate or similar article. 192,968, 6–5–62, Cl. D44—15.
Stone, Grenville C., and A. P. Freitas. Combined axle and bolster unit for a trailer van or the like. 193,974, 11–6–62, Cl. D14—2.
Stone Mfg. Co.: *See*—
Atkin, Leonard. 193,275.
Stoner, Eugene M., to Fairchild Engine and Airplane Corp. Rifle. 192,632, 1–9–62, Cl. D30—1.
Stoner, George H., to Air-Shields, Inc. Combined carrier and receiver for a portable medical aspirator. 193,460, 8–21–62, Cl. D83—1.
Storr, Hiawatha T. Pitcher or similar article. 192,815, 5–15–62, Cl. D44—21.
Stortz, Robert K., to C. M. Hall Lamp Co. Rear view mirror. 192,213, 2–13–62, Cl. D14—6.
Stortz, Robert K., to C. M. Hall Lamp Co. Rear view mirror unit. 192,633, 4–24–62, Cl. D14—6.
Stortz, Robert K., to C. M. Hall Lamp Co. Rear view mirror unit. 194,180, 12–4–62, Cl. D14—6.
Stout, Theophilus P. R., and W. Houser, to Parker Sweeper Co. Lawn sweeper. 194,051, 11–13–62, Cl. D40—1.
Stow & Davis Furniture Co.: *See*—
Buzzitta, Giacomo J. 193,889.
Strauss, Walter L., to Frankonia Products Inc. Doll. 193,398, 8–14–62, Cl. D34—4.
Strauss, Walter S., to Hanau Engineering Co., Inc. Dental handpiece. 192,356, 3–13–62, Cl. D24—1.
Stringer, Jack W., to International Business Machines Corp. Badge reader housing or similar article. 193,990, 11–6–62, Cl. D26—5.
Stringham, Elmer C., to Aeroquip Corp. Fitting for a flexible hose line. 194,015, 11–6–62, Cl. D91—3.
Strongcraft Products, Inc.: *See*—
Jones, Llewellyn. 193,821.
Stylette Plastics, Inc.: *See*—
Goetz, Daniel A. 193,382.
Sudler, James S., and J. Cronenwett; said Cronenwett assor. to said Sudler. Diving board platform. 192,514, 4–3–62, Cl. D34—5.
Sugaya, Takeo. Egg-shell cutter. 192,643, 4–24–62, Cl. D44—29.
Suit-O-Mat Corp.: *See*—
Lerner, Lawrence. 194,028.
Sullivan, John J. Aircraft. 194,006, 11–6–62, Cl. D71—1.
Sullivan, Joseph T., 2nd, to Standard Fire Alarm and Signal, Inc. Fire alarm signal or similar article. 194,293, 12–25–62, Cl. D72—1.
Sullivan, William H., to B. L. Marble Furniture Inc. Chair. 192,419, 3–20–62, Cl. D15—1.
Sullivan, William H., to B. L. Marble Furniture Inc. Furniture base. 193,094, 6–26–62, Cl. D15—1.
Sully, Frank H. Bearing. 193,866, 10–16–62, Cl. D46—1.
Sun Electric Corp.: *See*—
Bender, Fred M. 193,409.
Sunbeam Corp.: *See*—
Cornwell, Ross E. 192,295.
Czerwonky, Ralph A. 193,197.
Ernest, Robert O., and Cornwell. 192,370.
Ernest, Robert O., and Peterson. 193,944.
Florian, Gordon. 192,523.
Florian, Gordon. 192,640.
Florian, Gordon. 193,569.
Florian, Gordon. 194,001.
Harris, William C. 193,653.
Jepson, Ivar, and Cornwell. 192,555.
Jepson, Ivar, and Ernest. 194,201.
Leman, Donald E. 192,423.
Reed, John E. 193,618.
Sunbeam Lighting Co.: *See*—
Bodian, Marcus. 192,645.
Sundberg, Carl W., to G. P. Kent. Garment box. 192,053, 1–9–62, Cl. D58—12.
Sundberg, Carl W., and M. Ferar, to Square D Co. Switch operator. 192,008, 1–2–62, Cl. D26—13.
Sundberg, Carl W., and M. Fefar, to American Seating Co. Manual control for a motorized hospital bed. 192,468, 3–27–62, Cl. D26—13.
Sundberg, Carl W., and R. E. Hitchcock, to Whirlpool Corp. Handle. 192,495, 4–3–62, Cl. D10—8.
Sundberg, Carl W., and M. Ferar, to American Seating Co. Overbed table. 192,809, 5–15–62, Cl. D33—14.
Sundberg, Carl W., and M. Ferar, to American Seating Co. Hospital bed. 192,910, 5–29–62, Cl. D5—4.
Swanson, Carl W., and M. Ferar, to American Seating Co. Stacking chair. 193,340, 8–7–62, Cl. D15—1.
Sundberg, Carl W., and M. Ferar, to Sperry Rand Corp. Typewriter. 193,916, 10–23–62, Cl. D64—11.
Sundberg, Carl W., and M. Ferar, to Sperry Rand Corp. Typewriter. 193,917, 10–23–62, Cl. D64—11.
Sunukjian, Haig, to James Haig, Inc. Outdoor fireplace. 193,537, 9–4–62, Cl. D81—7.
Superior Industries, Inc.: *See*—
Crain, Lee J. 193,332.
Superior Provision Co., The: *See*—
Marcus, Marvin. 192,376.
Superior Tea & Coffee Co.: *See*—
Hrabe, Jerry. 192,344.
Superior Tool and Grinding Co.: *See*—
Hyde, Robert W. 192,830.
Sutcliffe, Eugene G. Dispensing nozzle guard. 194,013, 11–6–62, Cl. D91—1.
Suydam, Norman M. Target toy. 194,237, 12–18–62, Cl. D34—5.
Swanson, Carl E., to Duro-Test Corp. Incandescent lamp. 192,636, 4–24–62, Cl. D26—8.
Swanson, Clifford C. Bow tie rack. 193,857, 10–16–62, Cl. D33—8.
Swartwout Fabricators, Inc.: *See*—
Patterson, Gillette V. 193,642.
Patterson, Gillette V., and Darnell. 192,894.
Swett, James B., Roast tray. 192,694, 5–1–62, Cl. D44—10.
Swett, James B., to Rexall Drug and Chemical Co. Flexible towel holder or the like. 194,177, 12–4–62, Cl. D4—3.
Swift, Eugene C. Food serving table. 193,047, 6–12–62, Cl. D81—10.
Swimmer, Ernest J., and A. Hicks. Game board. 193,941, 10–30–62, Cl. D34—5.
Swingline Inc.: *See*—
Crowle, Robert H. and W. G., and Jones. 192,542.
Crowle, Robert H. and W. G., and Jones. 192,543.
Crowle, Robert H. and W. G., and Jones. 192,544.

Sylvania Electric Products Inc. : *See*—
Grosso, Raymond A. 192,336.
Heininger, Oskar, and Landry. 193,616.
Michaud, Albert J. 192,124.
Thomsen, Max M., and Slauer. 193,802.

Symington Wayne Corp. : *See*—
Bateman, Coates F., Mankin, Copony, Smith, and Monigle. 192,817.
Bateman, Coates F., Mankin, Copony, Smith, and Monigle. 192,818.
Bateman, Coates F., Mankin, Copony, Smith, and Monigle. 192,819.

Syntronics, Inc. : *See*—
Weintraub, Milton M. 194,140.

Syrett, William D. : *See*—
Ashley, Walter M., Jr., Shekut, and Syrett. 193,503.

Szenher, Witold. Assist handle for automobile roofs. 193,052, 6–19–62, Cl. D10—8.

Szuba, Walter D., and E. A. Bruder, to The Singer Mfg. Co. Sewing machine bed or similar article. 193,695, 9–25–62, Cl. D70—2.

Szuba, Walter D., and E. A. Bruder, to The Singer Mfg. Co. Combined sewing machine bed extension and attachment box. 193,696, 9–25–62, Cl. D70—2.

Szymanski, Michel J., to Onondaga Pottery Co. Dinner plate or similar article. 193,572, 9–11–62, Cl. D44—15.

Tab Products Co. : *See*—
Ribbens, Jacob J., Leete, and Foote. 192,085.

Tahaney, Patrick E. Pitcher or the like. 193,798, 10–9–62, Cl. D44—21.

Taicher, Leonard L., and J. S. Tomaselli ; said Tomaselli assor. to said Taicher. Lady's shoe. 194,204, 12–11–62, Cl. D7—5.

Takara Co., New York, Inc. : *See*—
Yoshikawa, Nobuhiro. 192,501.
Yoshikawa, Nohiro. 192,502.

Takats, Zoltan, to General Aniline & Film Corp. Photographic projector. 194,077, 11–13–62, Cl. D61—1.

Takats, Zoltan, to General Aniline & Film Corp. Combined camera and support therefor. 194,078, 11–13–62, Cl. D61—1.

Talerico, Joseph F. : *See*—
Thiery, Arnold J., Davis, and Talerico. 192,505.

Talge, Henry J., to J. C. Hockery. Fruit juicer. 192,675, 4–24–62, Cl. D89—1.

Talge, Henry J., to J. C. Hockery. Electric fruit juicer. 193,376, 8–7–62, Cl. D89—1.

Talge, Henry J., to J. C. Hockery. Electric fruit juicer. 193,461, 8–21–62, Cl. D89—1.

Talge, Henry J., J. L. Grant, and W. A. Chappell, to Rival Mfg. Co. Electric can opener. 192,079, 1–16–62, Cl. D22—2.

Talge, Henry J., J. L. Grant, and W. A. Chappel, to Rival Mfg. Co. Electric can opener. 192,080, 1–16–62, Cl. D22—2.

Talmadge, Arthur, to United Artists Records, Inc. Display rack. 193,043, 6–12–62, Cl. D80—5.

Talmadge, Arthur, to United Artists Records, Inc. Display rack. 193,044, 6–12–62, Cl. D80—10.

Talmadge, Arthur, to United Artists Records, Inc. Display rack. 193,045, 6–12–62, Cl. D80—10.

Tankard, Roe F., to International Business Machines Corp. Printer console. 193,932, 10–30–62, Cl. D26—5.

Tarantino, Edward L. : *See*—
Thiery, George E., Werner, and Tarantino. 192,658.

Tarazi, Eli L. Automobile bumper guard. 193,331, 8–7–62, Cl. D14—6.

Tarbell, Neil W. Archery bow. 193,621, 9–18–62, Cl. D30—1.

Tarleton, Howard A., to Gorham Corp. Jigger. 192,933, 5–29–62, Cl. D44—9.

Taub, Harry S. Auxiliary shelf. 193,191, 7–10–62, Cl. D33—3.

Taves, Richard H. Beverage mixer or similar article. 193,676, 9–25–62, Cl. D44—1.

Taylor, Frank F., Co., The : *See*—
Gill, Donald W. 193,475.

Taylor, Milton F. : *See*—
Kerr, William S., and Taylor. 193,769.

Tektronix, Inc. : *See*—
Morris, Gale P. 192,792.

Teletype Corp. : *See*—
Zenner, Walter J. 193,879.

Telford, Grace P. Finger ring or similar article. 193,404, 8–14–62, Cl. D45—10.

Telford, Thomas L. Height gage. 194,192, 12–4–62, Cl. D52—6.

Telford, Thomas L. Height gage. 194,193, 12–4–62, Cl. D52—6.

Temco, Inc. : *See*—
Wilhoite, Murray. 192,200.

Tepper, Gene S., to Michael Saphier Associates Inc. Chair. 193,338, 8–7–62, Cl. D15—1.

Tepper, Gene S., to Michael Saphier Associates Inc. Game table. 193,348, 8–7–62, Cl. D33—14.

Tepper, Gene S., to Michael Saphier Associates Inc. Set of chessmen. 193,938, 10–30–62, Cl. D34—5.

Terry, Cameron D. Building block. 192,734, 5–8–62, Cl. D18—2.

Terwilliger, Floyd A. Vial closure. 192,539, 4–3–62, Cl. D58—26.

Terwilliger, Floyd A. Car door bumper. 192,796, 5–15–62, Cl. D14—6.

Tessin, Emil A., II, to Alside Homes Corp. Modular house. 193,547, 9–11–62, Cl. D13—1.

Tetyak, John J., ⅔ to V. W. Bikales, and ⅓ to R. S. Bremson, Jr. Water sled. 192,947, 5–29–62, Cl. D71—1.

Texagon Mills, Inc. : *See*—
Hartman, John H. 193,800.

Texas Instruments Inc. : *See*—
Marcoux, Leo. 193,186.

Texas Vitrified Pipe Co. : *See*—
Prator, Simpson V. 192,788.

Textile Machines Works : *See*—
Johnson, John F. 192,329.

Thatcher Glass Mfg. Co., Inc. : *See*—
Clute, Charles V. 193,035.
Laudano, Edwin C. 192,535.
Laudano, Edwin C. 192,536.
Laudano, Edwin C. 193,216.
Pettingill, Edwin R. 194,068.

Theibault, A. Robert : *See*—
Di Domenico, Frank. 193,876.

Theilig, Arthur W., to Rockwood & Co. Egg tray. 193,448, 8–21–62, Cl. D58—13.

Theisen, Ralph W. Plate holder. 192,227, 2–13–62, Cl. D44—10.

Theratron Corp. : *See*—
Gilman, Logan D. 192,565.
Gilman, Logan D. 193,964.

Thiery, George E., E. H. Werner, and E. L. Tarantino, to Kifco Corp. Carrier for bottler or the like. 192,658, 4–24–62, Cl. D58—26.

Thiokol Chemical Corp. : *See*—
Lehrer, Stanley. 193,644.

Thomas & Betts Co., The : *See*—
Gibson, Howard B. 193,849.
Leonardo, Ignazio. 193,685.

Thomas, Charles F., to Thomas Mfg. and Sales Co., Inc. Can opener. 194,157, 11–27–62, Cl. D44—29.

Thomas, De Loss V., and H. J. Roberts ; said Roberts assor. to said Thomas. Paddle wheel water-craft. 192,714, 5–1–62, Cl. 71—1.

Thomas Mfg. and Sales Co., Inc. : *See*—
Thomas, Charles F. 194,157.

Thomas, Richard. Vibrating lounge. 193,321, 7–31–62, Cl. D83—1.

Thomas, Richard. Vibrating lounge. 193,322, 7–31–62, Cl. D83—1.

Thomas, Thomas R. Combined lubricant and cooling unit. 192,059, 1–9–62, Cl. D65—1.

Thomas, Thomas R. Combined lubricant and cooling unit. 192,060, 1–9–62, Cl. D65—1.

Thomas, Thomas R. Combined lubricant and cooling unit. 192,061, 1–9–62, Cl. D65—1.

Thompson, Alan E. : *See*—
McCormick, Walter S., Jr., Stenabaugh, and Thompson. 192,802.

Thompson, Edwin R., to Western Reserve Plastics, Inc. Handle for a storm window insert. 193,468, 8–28–62, Cl. D10—10.

Thompson, Edwin R., to Western Reserve Plastics, Inc. Storm sash handle. 194,260, 12–25–62, Cl. D10—10.

Thompson, Mary A. Bottle closure. 193,223, 7–10–62, Cl. D58—26.

Thompson, Robert F., to Simpson Timber Co. Door. 193,328, 8–7–62, Cl. D13—1.

Thompson, Robert F., Door. 193,329, 8–7–62, Cl. D13—1.

Thomsen, Max M., and R. G. Slauer, to Sylvania Electric Products Inc. Reflector for fluorescent lighting fixtures. 193,802, 10–9–62, Cl. D48—23.

Thomson, James E., to Western Stamping Co. Toy bank. 193,671, 9–25–62, Cl. D34—11.

Thornton, Isaiah. Masonry block. 192,561, 4–10–62, Cl. D18—2.

Thurston, Gerald E., to Lightolier Inc. Lamp shade. 193,354, 8–7–62, Cl. D48—16.

Tiborcz, Michael. Tire. 193,378, 8–7–62, Cl. D90—20.

Tiborcz, Michael. Tire. 193,416, 8–14–62, Cl. D90—20.

Tiborcz, Michael. Tire. 193,602, 9–11–62, Cl. D90—20.

Tiborcz, Michael. Tire. 194,011, 11–6–62, Cl. D90—20.

Tiborcz, Michael. Tire. 194,202, 12–4–62, Cl. D90—20.

Tiller, James A., to American Radiator & Standard Sanitary Corp. Sink. 194,258, 12–18–62, Cl. D4—2.

Tiso, Frank, to P., N., I. and A. Meislin, and H. Gotthelf, Co-partners, trading as Fountain Hill Mills. Knitted shirt. 192,135, 1–30–62, Cl. D3—4.

Tiso, Frank, to P., N., I. and A. Meislin, and H. Gotthelf, Co-partners, trading as Fountain Hill Mills. Knitted shirt. 192,136, 1–30–62, Cl. D3—4.

Toffolon, Siro R., to The International Silver Co. Fork or similar article of flatware. 192,701, 5–1–62, Cl. D54—12.

Toffolon, Siro R., to The International Silver Co. Fork or similar article of flatware. 193,949, 10–30–62, Cl. D54—12.

Toffolon, Siro R., to The International Silver Co. Fork or similar article of flatware. 194,126, 11–20–62, Cl. D54—12.

Toffolon, Siro R., to The International Silver Co. Fork or similar article or flatware. 194,163, 11–27–62, Cl. D54—12.

Toledo Scale Corp. : *See*—
Wolaver, Robert M. 192,975.

Toll, Thomas A. : *See*—
Sleeman, William C., Jr., and Toll. 193,454.

Tomar Industries, Inc. : *See*—
Ranoha, Stephen, and Schallinger. 194,265.

Tomaselli, John S. : *See*—
Taicher, Leonard L., and Tomaselli. 194,204.

Torongo, Albert H., to The Procter & Gamble Co. Beverage dispenser, 192,438, 3–20–62, Cl. D44—21.
Torrington Mfg. Co., The: *See*—
Atalla, Anwar A. 192,564.
Klonoski, Stephen W., and Potter. 193,643.
Tosti, Savena M. Rocking seesaw. 194,111, 11–20–62, Cl. D34—5.
Toth, Julius A. Combined toothpaste dispenser, drinking glass and toothbrush holder. 194,022, 11–13–62, Cl. D4—3.
Towlsaver, Inc.: *See*—
Layton, J. C., and Tucker. 192,722.
Layton, J. C., and Tucker. 193,870.
Transogram Co., Inc.: *See*—
Benkoe, Erwin. 192,474.
Transue, Gerald O. Hypodermic needle injector. 192,901, 5–22–62, Cl. D83—1.
Trappeys, B. F., Sons Inc.: *See*—
Countryman, Roy. 194,132.
Traub Mfg. Co.: *See*—
Powers, James R. 194,058.
Travers, William J., and J. V. Kehoe, to Richfield Oil Corp. Marine drilling rig. 193,289, 7–24–62, Cl. D71—1.
Tressler, Duane W. Toy ball projector and catcher device. 193,151, 7–3–62, Cl. D34—15.
Trinca, Frederick. Air pressure gauge for tires. 192,262, 2–20–62, Cl. D52—6.
Troemner, Henry, Inc.: *See*—
Bowers, William H. 192,503.
Trombley, Bertrand N., to Bopp-Decker Plastics, Inc. Cup. 192,174, 2–6–62, Cl. D44—9.
Trombley, Bertrand N., to Bopp-Decker Plastics, Inc. Bowl. 192,175, 2–6–62, Cl. D44—15.
True Mfg. Co., Inc.: *See*—
Trulaske, Frank R. 193,287.
Trulaske, Frank R., to True Mfg. Co., Inc. Beverage cooler. 193,287, 7–24–62, Cl. D67—4.
Tru-Scale, Inc.: *See*—
Pelley, Perry H. 192,074.
Tucker, Counell A.: *See*—
Layton, J. C., and Tucker. 192,722.
Layton, J. C., and Tucker. 193,870.
Tucker, Le Grand W. Helmet. 192,071, 1–16–62, Cl. D3—13.
Tupper, Earl S., to Rexall Drug and Chemical Co. Combined pitcher and dispensing closure. 192,192, 2–6–62, Cl. D58—26.
Turner, George L., to H. B. Sherman Mfg. Co. Lawn sprinkler. 192,133, 1–23–62, Cl. D91—1.
Turner, Henry G., to American Telephone and Telegraph Co. Telephone enclosure. 192,163, 2–6–62, Cl. D13—1.
Turner, William F., to Bodendieck Tool Co. Lever hot stick for compressing sleeves or the like. 192,303, 2–27–62, Cl. D54—13.
Turpen, Oliver S., Jr., to Dublin Industries, Inc. Contamination-proof laboratory hood. 192,422, 3–20–62, Cl. D16—2.
Tuttle, Harry V.: *See*—
Haskett, Elmer L., and Tuttle. 192,432.
Twin Cantors Silver Kettle, Inc.: *See*—
Epstein, Stanley H. 192,900.
Tyler, Loren E. Fertilizer spreader trailer. 194,188, 12–4–62, Cl. D35—2.
Tynio, Michael. Set of playing cards. 192,252, 2–20–62, Cl. D34—5.
Type-Write Desk Mfg. Co., Inc.: *See*—
Blevins, Kenneth A. 193,192.
Uarco Inc.: *See*—
Moe, Dana W. 193,366.
Ulm, Reign C., to Union Tank Car Co. Storage vessel. 193,494, 8–28–62, Cl. D91—1.
Ultra-Chemical Works, Inc.: *See*—
Lilling, Henry. 194,286.
Ultra-Pak, Inc.: *See*—
Schneider, William S. 192,941.
Umanoff, Martin, to R. A. MacPlum Industries, Inc. Bottle. 193,117, 6–26–62, Cl. D58—8.
U-Need-Em Specialty Co., Inc.: *See*—
Longo, Anthony. 192,209.
U-Stretch Corp.: *See*—
Monday, Zephyr. 192,572.
Monday, Zephyr. 192,573.
Union Steel Products Co.: *See*—
Romero, Victor R. 193,524.
Union Tank Car Co.: *See*—
Ulm, Reign C. 193,494.
United Aircraft Corp.: *See*—
Howard, George J., and Hibyan. 193,492.
United Artists Records, Inc.: *See*—
Talmadge, Arthur. 193,043.
Talmadge, Arthur. 193,044.
Talmadge, Arthur. 193,045.
United Metal Goods Mfg. Co., Inc.: *See*—
Edelman, Benjamin G. 192,711.
United Process Machinery Co.: *See*—
Cole, Austin, III. 192,751.
United Shoe Machinery Corp.: *See*—
Belski, John E., and Hamm. 192,881.
Kilham, Charles O. 193,767.
United States of America
Army: *See*—
Berl, Herbert. 192,342.
Jones, Thomas H. 194,212.
National Aeronautics and Space Administration: *See*—
Sleeman, William C., Jr., and Toll. 193,454.
United States of America—Continued
Navy: *See*—
McCrackin, Otho E. 193,317.
United States Rubber Co.: *See*—
Doherty, Thomas H. 194,226.
Doherty, Thomas H. 194,227.
Newman, James F., and Marshall. 194,012.
United States Steel Corp.: *See*—
Stickel, William A., Jr. 193,548.
Universal Form Clamp Co.: *See*—
Kus, Theodore A. 193,686.
Unkrich, Robert L.: *See*—
Kraines, Maurice H., and Unkrich. 193,088.
Kraines, Maurice H., and Unkrich. 193,089.
Kraines, Maurice H., and Unkrich. 193,090.
Kraines, Maurice H., and Unkrich. 193,835.
Unter, Robert K., to National Lock Co. Handle or the like. 193,544, 9–11–62, Cl. D10—8.
Upson Machine Products, Inc.: *See*—
Spence, Henry U. 193,594.
Uptime Corp.: *See*—
Larsen, Raymond B. 192,359.
Urban, Chester S. Chair. 193,507, 9–4–62, Cl. D15—1.
Utica Communications Corp.: *See*—
Lessner, Marcus S. 193,344.
Vachon, Linus P. Golf club head. 193,897, 10–23–62, Cl. D34—5.
Vacuum Can Co.: *See*—
Haloski, Frank, and Adams. 192,005.
Vale, Michael: *See*—
Watts, Earl L., and Vale. 193,753.
Valentine, Edward L. Milk holding tank. 192,801, 5–15–62, Cl. D28—1.
Valliant, William E.: *See*—
Wallace, David H., Valliant, and Williamson. 194,289.
Vallis, Joseph. Bath brush or the like. 192,785, 5–15–62, Cl. D9—2.
Van Acker, John J.: *See*—
Maul, John A., and Van Acker. 193,743.
Van Benschoten, Theodore R.: *See*—
Parker, Wayland B., and Van Benschoten. 192,864.
Van Bibber, Charles E. Automobile mounted mobile home. 194,145, 11–27–62, Cl. D14—3.
Van Buren, Tracy H., Jr., to Charleston Molded Fiber Glass Co. Chair seat. 193,657, 9–25–62, Cl. D15—8.
Van De Velde, Valere F., and J. M. Da Prato. Barricade. 193,597, 9–11–62, Cl. D72—1.
Van Den Berg, Richard H., to Dimensional Products, Inc. Display sign. 193,829, 10–16–62, Cl. D1—12.
Van Dyck Bennett, to The Lionel Corp. Display carton. 194,198, 12–4–62, Cl. D58—12.
Van Mil, Stephen A., Jr., to Ivers-Lee Co. Flexible package for liquids. 193,951, 10–30–62, Cl. D58—2.
Van Mil, Stephen A., Jr., to Ivers-Lee Co. Multiple compartment package. 194,196, 12–4–62, Cl. D58—2.
Van Nest, Lisle C., to Multi-Meter Corp. Combined closure cap and spout. 193,222, 7–10–62, Cl. D58—26.
Vannice, Marvin W., to Vue-Chest, Inc. Display box. 193,447, 8–21–62, Cl. D58—12.6.
Van Voorhis, Noble, to Carnation Co. Animal feeding tub. 193,654, 9–25–62, Cl. D12—2.
Vandale Corp.: *See*—
Buschbom, Floyd E. 192,570.
Vanderhyde, Harold J., to The Procter & Gamble Co. Bottle. 194,151, 11–20–62, Cl. D58—5.
Vanity Fair Mills, Inc.: *See*—
La Bue, Seraphina C. 193,986.
La Bue, Seraphina C. 194,034.
Vaughan Mfg. Co.: *See*—
La Forte, Michael J. 192,289.
VEB Kamera- und Kinowerke Dresden: *See*—
Bönisch, Josef. 193,592.
Bönisch, Josef. 193,914.
Vector Mfg. Co., Inc.: *See*—
Wulc, Stanley S. 193,965.
Vendo Co., The: *See*—
Conde, Jose A. 192,151.
Conde, Jose A. 192,937.
Gran, William A. 194,065.
Vereingte Metallwerke Ranshofen-Berndorf Aktiengesellschaft: *See*—
Denzel, Marianne. 194,235.
Jainecker, Anton. 192,858.
Jainecker, Anton. 193,733.
Jainecker, Anton. 193,734.
Vernon Co., The: *See*—
Vernon, William F. 192,902.
Vernon, William F. 193,440.
Vernon, William F., to The Vernon Co. Ash tray. 192,902, 5–22–62, Cl. D85—2.
Vernon, William F., to The Vernon Co. Salad tong. 193,440, 8–21–62, Cl. D44—4.
Verreault, Joseph, to Dominion Corset Co., Ltd. Brassiere. 194,035, 11–13–62, Cl. D20—4.
Vestal, Walter H. Balancing toy doll. 194,154, 11–27–62, Cl. D34—15.
Vevirit, James V.: *See*—
Davis, William L., and Vevirit. 192,778.
Vezzani, Eugene D. Underwater camera. 193,814, 10–9–62, Cl. D61—1.
Vierling, John A., to Standard Packaging Corp. Perpetual calendar. 193,745, 10–2–62, Cl. D74—5.

Vigna, Ralph M.: *See*—
Rosenburgh, Norman J., and Vigna. 193,364.
Viking Stainless Co., Inc.: *See*—
Heller, Bernard. 193,103.
Vilberg, Fred A. Letter holder or similar article. 194,081, 11–13–62, Cl. D74—9.
Villager, Inc., The: *See*—
Raab, Norman, and M. L. 194,253.
Visionade Mfg. Co., Inc.: *See*—
Rothgart, Albert. 192,028.
Vogel, Arthur R. Ornament for automobiles or the like. 192,241, 2–20–62, Cl. D14—6.
Vogel, Uwe F. Scale. 192,649, 4–24–62, Cl. D52—10.
Vogel, William M., Jr., to Standard Container, Inc. Insecticide sprayer or the like. 192,509, 4–3–62, Cl. D31—3.
Vogt, Noland E.: *See*—
Sanderson, Leon C., and Vogt. 194,211.
Vogt, Noland E., to General Electric Co. Proof encoder console. 193,711, 10–2–62, Cl. D26—5.
Vogt, Noland E., and L. C. Sanderson, to General Electric Co. Multiple pocket sorter cabinet. 193,661, 9–25–62, Cl. D26—5.
Vogt, Paul, to Ebauches S.A. Time meter with alarm device. 192,382, 3–13–62, Cl. D52—1.
Vogue Rubber Co.: *See*—
Dodson, Loyd O. 193,699.
Vollmann, Carl H., to Reppel & Vollmann KG. Creamer. 192,969, 6–5–62, Cl. D44—21.
Vue-Chest, Inc.: *See*—
Vannice, Marvin W. 193,447.
Vylyt Corp.: *See*—
Messinger, Abraham. 192,023.
Messinger, Abraham. 192,285.
Messinger, Abraham. 192,553.
Messinger, Abraham. 192,956.
Messinger, Abraham. 192,957.
Wada, Tadahide, to Cosmos Products Co. Knife or the like. 193,266, 7–24–62, Cl. D22—3.
Wagner, Gustav H. Earth moving vehicle. 192,317, 3–6–62, Cl. D14—3.
Wagnitz, Donald R. Holder for a flower pot or the like. 193,942, 10–30–62, Cl. D35—3.
Wahl Clipper Corp.: *See*—
Myers, Charles S., and Wahl. 192,424.
Wahl, Warren P.: *See*—
Myers, Charles S., and Wahl. 192,424.
Wahlin, Fred W., to Spraying Systems Co. Spray gun. 194,-169, 11–27–62, Cl. D62—2.
Wahlstrom, Steven L., to Pioneer Mfg. Co. Combined air intake and ventilator cap. 192,272, 2–20–62, Cl. D62—3.
Wald Industries, Inc.: *See*—
Bagshaw, Robert B. 193,931.
Bagshaw, Robert B. 194,262.
Fry, Carl L. 192,727.
Waldman, Leonard F., Jr. Enema bag or similar article. 192,987, 6–5–62, Cl. D83—1.
Walker, George W., to Ford Motor Co. Fender ornament for an automobile or the like. 192,214, 2–13–62, Cl. D14—6.
Walker, George W., to Ford Motor Co. Vehicle door handle. 192,349, 3–13–62, Cl. D10—8.
Walker, George W., to Ford Motor Co. Rear view mirror. 192,728 5–8–62, Cl. D14—6.
Walker, George W., to Ford Motor Co. Rear view mirror. 192,852. 5–22–62, Cl. D14—6.
Walker, Howell L., and R. A. Young. Airplane. 192,583, 4–10–62, Cl. D71—1.
Walker, Howell L., and R. A. Young. Airplane. 193,122, 6–26–62, Cl. D71—1.
Walker, Howell L., and R. A. Young, to Douglas Aircraft Co., Inc. Airplane. 193,369, 8–7–62, Cl. D71—1.
Wall, John F. Plastic foam ear muff. 192,070, 1–16–62, Cl. D3—13.
Wallace China Co., Ltd.: *See*—
Fisher, Eric. 192,527.
Fisher, Eric. 192,873.
Fisher, Eric. 192,874.
Reiser, John H. 192,015.
Wallace David H. W. E. Valliant, and F. P. Williamson, to Otto J. Munz. Packaging tray for shucked oysters. 194,-289, 12–25–62, Cl. D58—13.
Waller, Robert J., ½ to L. W. Barnett and ½ to S. P. Brooks. Syringe tray. 194,138, 11–20–62, Cl. D83—1.
Wally, Joseph H., Jr., to Western Blue Print Co. Photographic copying apparatus or the like. 194,134, 11–20–62, Cl. D61—1.
Walsh, Frank T., to Go-Power Corp. Wheel. 194,099, 11–20–62, Cl. D14—30.
Walsh, John C., and W. M. Haselton, to Cherry-Burrell Corp. Vacuum processor. 193,779, 10–9–62, Cl. D23—1.
Walter, Jean: *See*—
Rampinelli-Schwarz, B., and Walter. 192,579.
Waltman, Charles T., to Faraday Inc. Alarm box or the like. 193,596, 9–11–62, Cl. D72—1.
Waltz, Edward, to E. O. Bulman Mfg. Co., Inc. Mounting base for a tape dispenser. 193,415, 8–14–62, Cl. D74—1.
Wanielista, Walter: *See*—
Sippel, Charles P., Jr., and Wanielista. 192,055.
Ward, Carmen I. Electric bacon cooking griddle. 193,751, 10–2–62, Cl. D81—10.
Wark, John D.: *See*—
Metzler, Charles L., Wark, and Bernstein. 194,288.
Schladermundt, Peter, and Wark. 194,074.
Warmkessel, Harry J.: *See*—
Rutman, Ralph G., and Warmkessel. 193,179.
Warner & Swasey Co., The: *See*—
Diener, Robert E. 194,220.
Waser, Felix V., to Feigenson, Inc. Bottle. 193,032, 6–12–62, Cl. D58—8.
Waser, Felix V., to Feigenson, Inc. Bottle. 193,033, 6–12–62, Cl. D58—8.
Wasserthell, David: *See*—
Davis, Arnold M., and Wasserthell. 193,512.
Wassmann, Lute, to Corry Jamestown Corp. Letter tray. 192,584, 4–10–62, Cl. D74—9.
Waters, Robert S.: *See*—
De La Marter, Louis J., and Waters. 192,840.
Watson, Lester E., and J. L. Corley. Outdoor grill. 192,199, 2–6–62, Cl. D81—10.
Watson Mfg. Co., Inc.: *See*—
Spindler, Norman J. 192,121.
Watts, Earl L., and M. Vale. Cigarette. 193,753, 10–2–62, Cl. D85—6.
Watts, Harold E. Retriever for fishing plugs, lures, or the like. 192,688, 5–1–62, Cl. D31—4.
Wax, Bernard M. Tape dispenser or similar article. 192,835, 5–15–62, Cl. D74—1.
Waxman, Jay S., and L. A. Miller, to Shure Bros. Inc. Phonograph cartridge. 193,007, 6–12–62, Cl. D26—14.
Waxman, Jay S., and L. A. Miller, to Shure Brothers Inc. Phonograph needle. 193,854, 10–16–62, Cl. D26—14.
Wayne Knitting Mills: *See*—
Kraus, Charles C. 192,816.
Mangold, Harry C. 193,801.
Weaver, Harrison, Jr.: *See*—
Gier, Richard W., and Weaver. 194,301.
Webb, Horace L., and H. M. Steinman. Sound transducer. 193,187, 7–10–62, Cl. D26—14.
Weber, Albert C. Combined cabinet and bench unit. 193,-305, 7–31–62, Cl. D33—12.
Weber Dental Mfg. Co., The: *See*—
Maurer, John A., and Lappin. 192,246.
Weber, Heinz K. Lampshade. 194,059, 11–13–62, Cl. D48—16.
Webster, John T., and E. L. Julian. Disposable sandal. 192,210, 2–13–62, Cl. D7—7.
Weco Products Co.: *See*—
Hyman, Richard M. 193,034.
Wegner, Helen. Gameboard or similar article. 193,400, 8–14–62, Cl. D34—5.
Weigel, Raymond A., and D. R. Ferris, to Kysor Heater Co. Vehicle. 192,912, 5–29–62, Cl. D14—3.
Weinberg, Frederic. Chair. 192,215, 2–13–62, Cl. D15—1.
Weinberg, Frederic. Chair. 192,216, 2–13–62, Cl. D15—1.
Weinberg, Frederic. Chair. 192,217, 2–13–62, Cl. D15—1.
Weiner, Earl R.: *See*—
Aymar, Robert H., and Weiner. 192,357.
Aymar, Robert H., and Weiner. 192,917.
Weiss, Jay G. and M. M. Teapot. 194,279, 12–25–62, Cl. D44—26.
Weinn, Marian M.: *See*—
Weinn, Jay G. and M. M. 194,279.
Weinstein, Edward J.: *See*—
Amdur, Charles J., and Weinstein. 192,150.
Weintraub, Milton M. to Syntronics, Inc. Carrying case for motion picture equipment and other articles. 194,140, 11–20–62, Cl. D87—5.
Weiss, Eugene, to Beacon Enterprises, Inc. Exerciser. 193,-435, 8–21–62, Cl. D34—5.
Weiss, Leslie, to Schwartz Engraving & Die Works, Inc. Case of soap. 192,131, 1–23–62, Cl. D73—1.
Weiss, Max D., to Robeson, Rochester, Corp. Coffeemaker. 194,117, 11–20–62, Cl. D44—26.
Weiss, Richard, K. C. Heuser, and H. Finke, to Franke & Heidecke, Fabrik Photographischer Prazisions-Apparate. Slide projector. 194,248, 12–18–62, Cl. D61—1.
Weissman, Harry. Spectacle frame. 192,823, 5–15–62, Cl. D57—1.
Weissman, Harry. Spectacle frame front. 192,825, 5–15–62, Cl. D57—1.
Welch, Philip N., and G. A. Wheelock. Optical comparator. 193,490, 8–28–62, Cl. D57—1.
We-Mar, Inc.: *See*—
Aymar, Robert H., and Weiner. 192,357.
Aymar, Robert H., and Weiner. 192,917.
Wenger, Richard. Combined hoe, rake and edger. 193,486, 8–28–62, Cl. D39—1.
Wenig, Norman B. Base-board heater, or similar article. 193,962. 10–30–62, Cl. D81—21.
Werner, Edward H.: *See*—
Thiery, George E., Werner, and Tarantino. 192,658.
Werner, Siegmund, to Deeco Inc. Chair or similar article. 193,775, 10–9–62, Cl. D15—1.
Wescos Plastics, Inc.: *See*—
Miller, Alvin A. 194,285.
West, John J. Golfer's accessory tool. 193,728, 10–2–62, Cl. D3—5.
West Bend Co., The: *See*—
Painter, David L. 192,529.
Painter, David L. 192,530.
Western Blue Print Co.: *See*—
Wally, Joseph H., Jr. 194,134.
Western Reserve Plastics, Inc.: *See*—
Thompson, Edwin R. 193,468.
Thompson, Edwin R. 194,260.
Western Stamping Co.: *See*—
Thomson, James E. 193,671.

Westheimer, Louis E.: *See*—
Hyatt, John I., and Westheimer. 192,526.
Westhoven, Claire J., R. E. Brown, to Owens-Illinois Glass Co. Jar. 193,741, 10–2–62, Cl. D58—25.
Westinghouse Air Brake Co.: *See*—
Haeckler, Charles W. 193,784.
Westinghouse Electric Corp.: *See*—
Becker, Frederick W. 193,278.
De La Marter, Louis J., and Waters. 192,840.
Izzi, Edmund L. 192,041.
Kitasako, Edwin T. 193,591.
Perl, Frederick W. 194,119.
Westland Plastics, Inc.: *See*—
Forsman, Fred O., and McCutcheon. 192,218.
Forsman, Russell J. 192,412.
Weston, Richard E., and R. King. Guide for use with zipper. 194,103, 11–20–62, Cl. D17—8.
Whatley, William J. Combined golf cart and trailer. 193,-240, 7–17–62, Cl. D14—3.
Wheeler, Clifford R., to Custom Plastics Corp. Bottle. 192,190, 2–6–62, Cl. D58—6.
Wheeler, Marvin Q.: *See*—
Goldstein, Jack, and Wheeler. 193,638.
Wheeling Steel Corp.: *See*—
Ries, William M. 192,976.
Ries, William M. 193,683.
Ries, William M. 193,684.
Wheelock, Glenn A.: *See*—
Welch, Philip N., and Wheelock. 193,490.
Whidden, William E., to Bell Telephone Laboratories, Inc. Combined portable telephone enclosure and support. 193,-393, 8–14–62, Cl. D26—14.
Whirlpool Corp.: *See*—
Ferar, Montgomery. 192,261.
Ferar, Montgomery. 194,121.
Ferar, Montgomery, and Russell. 193,039.
Lanchjelm, Henrik, and Ferar. 192,747.
Sundberg, Carl W., and Hitchcock. 192,496.
White, Felix G. Soap dish. 193,085, 6–26–62, Cl. D4—3.
White Mfg. Co.: *See*—
Young, Ralph C., and Bingman. 194,182.
White, Neil J. Framed string decoration. 192,291, 2–27–62, Cl. D29—28.
White, Neil J. Framed string decoration. 193,994, 11–6–62, Cl. D29—23.
White Sewing Machine Corp.: *See*—
Hamlett, Sidney J. 193,040.
White, William J. Flower pot. 193,485, 8–28–62, Cl. D35—3.
Whiteford, Carlton L. Envelope for article display. 192,267, 2–20–62, Cl. D58—2.
Whitehead Chain Saw Co.: *See*—
Burns, Sam. 193,828.
Ferar, Montgomery. 193,834.
Whitley, Willard F., Jr., and C. J. Young. Outdoor lighting fixture. 194,063, 11–13–62, Cl. D48—23.
Whitman, Robert L., to Handley Industries, Inc. Meter box. 193,023, 6–12–62, Cl. D52—6.
Whitson, John W. Holder for a template and a punchable card. 193,819, 10–9–62, Cl. D74—1.
Wickenberg, Chester H., and B. Kelly, to Sunbeam Corp. Bottle warmer. 192,066, 1–9–62, Cl. D81—10.
Wicker, Eugene H., and W. J. Orzel. Combined cartridge belt and game carrier. 193,926, 10–30–62, Cl. D3—10.
Wickman, Charles E., to Anfinsen Plastic Moulding, Inc. Combined flexible closure and pouring spout. 193,121, 6–26–62, Cl. D58—26.
Wider, Anton J. Lace fabric or similar article. 192,097, 1–16–62, Cl. D47—6.
Wiegand, Edwin L., Co.: *See*—
Drungand, Lester D. 192,587.
Wiegel, Otto. Height gauge pedestal. 192,384, 3–13–62, Cl. D52—6.
Wiele, Henry J., ¼ to C. H. Ephraim, and ¼ to R. G. Wynne, and J. A. Finken. High chair attachment. 193,093, 6–26–62, Cl. D34—1.
Wight, Forrest P., to Bell Telephone Laboratories Inc. Private branch exchange console. 193,513, 9–4–62, Cl. D26—5.
Wiinblad, Björn, to Rosenthal-Porzellan Aktiengesellschaft. Tumbler or similar article. 192,014, 1–2–62, Cl. D36—10.
Wiinblad, Björn, to Rosenthal-Porzellan Aktiengesellschaft. Plate or similar article. 192,176, 2–6–62, Cl. D44—15.
Wilbur, William B. Ring impaling puzzle. 193,565, 9–11–62, Cl. D34—15.
Wilcox, Donald C., to General Development Corp. Billboard. 193,130, 7–3–62, Cl. D1—12.
Wildgen, Leo F., to Arthur Salm, Inc. Dish. 192,606, 4–17–62, Cl. D44—15.
Wildman, Robert E., to General Equipment Mfg. & Sales, Inc. Combined mixer and dispenser for ice cream or the like. 192,846, 5–22–62, Cl. D2—5.
Wilen, Stanley R.: *See*—
Rybicki, Irvin W., and Wilen. 192,242.
Wilhelm, Russell B., to Owens-Illinois Glass Co. Bottle. 192,453, 3–20–62, Cl. D58—8.
Wilhoite, Murray, to Temco, Inc. Heater. 192,200, 2–6–62, Cl. D81—10.
Wilkinson Sword Ltd.: *See*—
Rogers, Edward A. 194,185.
Wille, Louis E. Fishing lure. 192,602, 4–17–62, Cl. D31—4.
Williams-Bermuda Corp.: *See*—
Best, Melvin H., and Samhammer. 193,412.
Williams, Daniel S. Shoe tree. 192,680, 5–1–62, Cl. D7—2.
Williams, Herbert E., to American Desk Mfg. Co. End standard for a row of seats. 192,243, 2–20–62, Cl. D15—8.
Williams, Herbert E., to American Desk Mfg. Co. End standard for a row of seats. 192,244, 2–20–62, Cl. D15—8.
Williams, Herbert E., to American Resk Mfg. Co. End standard for a row of seats. 192,245, 2–20–62, Cl. D15—8.
Williams, Herbert E., to American Desk Mfg. Co. End standard for a row of seats. 193,846, 10–16–62, Cl. D15—8.
Williams, John M. Interfitting knife and fork set. 192,562, 4–10–62, Cl. D22—3.
Williams, Thomas E.: *See*—
Sterges, Alfred D., and Williams. 193,221.
Williams, William O., Jr. Gameboard. 192,431, 3–20–62, Cl. D34—5.
Williamson, Fletcher P.: *See*—
Wallace, David H., Valliant, and Williamson. 194,289.
Willinger, Allan H. Aquarium cover. 192,202, 2–6–62, Cl. D91—2.
Willinger, Allan H. and H. W. Thermometer. 192,232, 2–13–62, Cl. D52—7.
Willinger, Harding W.: *See*—
Willinger, Allan H. and H. W. 192,232.
Willis, Grant N., to Cash-Electric Co. Crimping tool. 193,068, 6–19–62, Cl. D54—10.
Wilmot Castle Co.: *See*—
Lauterbach, Norman E. 194,173.
Wilson, Eldon M.: *See*—
Northrop, John K., and Wilson. 193,595.
Wilson, Forrest. Divan. 192,913, 5–29–62, Cl. D15—11.
Wilson, Oran C., and R. L. Motter, to Wilson Plastics, Inc. Foot pedal. 192,853, 5–22–62, Cl. D14—6.
Wilson Plastics, Inc.: *See*—
Wilson, Oran C., and Motter. 192,853.
Wilzig, Herbert: *See*—
Schuessler, Charles J., and Wilzig. 192,410.
Winckler, Genevieve M. Convertible boot drier and table. 192,084, 1–16–62, Cl. D33—14.
Winfield, Herbert S., to Mathews Conveyer Co. Rotary distributor for baggage or the like. 192,127, 1–23–62, Cl. D55—1.
Winninghoff, Martin J.: *See*—
Dollar, John M. 192,668.
Winter, Richard S., to Interarmco, Inc. Floor lamp. 194,060, Cl. D48—20.
Winter, Richard S., to Interarmco, Ltd. Floor lamp. 194,061, 11–13–62, Cl. D48—20.
Winter, Richard S., to Interarmco, Ltd. Table lamp. 194,062, 11–13–62, Cl. D48—20.
Wirch, Leon S.: *See*—
Genin, Robert I., and Wirch. 192,368.
Genin, Robert I., and Wirch. 192,518.
Genin, Robert I., and Wirch. 194,048.
Wish, Henry, to Lucky Wish Products, Inc. Bottle for juice or the like. 193,689, 9–25–62, Cl. D58—9.
Wittke, Kurt H., to The Dow Chemical Co. Compartmented plate. 192,374, 3–13–62, Cl. D44—15.
Woertendyke, Frances E.: *See*—
Jarman, Donald G. 194,020.
Wolaver, Robert M., to Toledo Scale Corp. Weighing scale. 192,975, 6–5–62, Cl. D52—10.
Wolf, Bern: *See*—
Wolf, Mary, Roger A., and Wolf. 193,099.
Wolf, Bern E., and J. H. Lee, to Prestige Hardware Corp. Salad implement. 192,299, 2–27–62, Cl. D44—29.
Wolf, Bern E., and J. H. Lee, to Prestige Hardware Corp. Butter dish. 192,871, 5–22–62, Cl. D44—5.
Wolf, Cecil L., and J. Holland. Overhead garage door. 194,094, 11–20–62, Cl. D13—1.
Wolner, Herbert E. Child's vehicle. 193,624, 9–18–62, Cl. D34—15.
Wolozin, Herbert: *See*—
Wolozin, Norman, and H. 194,143.
Wolozin, Norman, and H. Prayer shawl. 194,143, 11–27–62, Cl. D3—16.
Wood Conversion Co.: *See*—
Norsted, Glenn A. 192,857.
Wood, Morris E., to Higbie Mfg. Co. Fishing reel. 193,788, 10–9–62, Cl. D31—4.
Wood, William H., to Ken-Lab, Inc. Individual human waste disposal unit. 193,169, 7–10–62, Cl. D4—5.
Woodbury, William W. Tool for removing and replacing container tops. 194,118, 11–20–62, Cl. D44—29.
Woolums, Norman C., and B. C. Carpenter. Clip removing tool. 193,069, 6–19–62, Cl. D54—13.
Wooster Brush Co., The: *See*—
Goetz, Daniel A. 193,382.
Wordsworth, Jack, to Armstrong Patents Co. Ltd. Combined pneumatic suspension spring and shock aborber for a vehicle. 192,352, 3–13–62, Cl. D14—25.
Worthington, George W., to Owens-Illinois Glass Co. Bottle. 192,979, 6–5–62, Cl. D58—6.
Wright, Jerry E., to Corning Glass Works. Beverage server or similar article. 192,528, 4–3–62, Cl. D44—21.
Wright, Jerry E., to Corning Glass Works. Combined dish stand and food warmer. 192,550, 4–3–62, Cl. D81—10.
Wulc, Stanley S., to Vector Mfg. Co., Inc. Radio electrocardiograph receiver. 193,965, 10–30–62, Cl. D83—1.
Wuthnow, Arvid V. Child's elevator apparatus. 192,931, 5–29–62, Cl. D34—15.
Wyman, Charles G., and W. B. Dunlap, Jr., to Lee Rubber & Tire Corp. Vehicle tire. 194,203, 12–4–62, Cl. D90—20.
Wynne, Leslie G.: *See*—
Garnick, Philip, Benner, and Wynne. 192,358.
Wiele, Henry J. 193,093.

Yamasaki, Kim : *See*—
Chapman, Dave, and Yamasaki. 193,243.
Chapman, Dave, and Yamasaki. 193,858.
Yamasaki, Kim, to Beltone Hearing Aid Co. Clip-on hearing aid. 192,860, 5–22–62, Cl. D26—14.
Yandt, Carl F., to Portable Structures, Inc. Clamp. 193,736, 10–2–62, Cl. D54—13.
Yankee Plastics, Inc. : *See*—
Zuckerman, Jack M. 192,279.
Zuckerman, Jack M. 192,280.
Zuckerman, Jack M. 192,281.
Zuckerman, Jack M. 193,257.
Yarder, Irving R. Advertising sign for buses or the like. 193,968, 11–6–62, Cl. D1—12.
Yokogawa Electric Works, Ltd. : *See*—
Gomi, Takesi. 193,680.
Yolanda Art, Inc. : *See*—
Campbell, Claude C. 192,993.
Yonkers, Robert A., to Bissell Inc. Spray dispensing cap. 193,956, 10–30–62, Cl. D58—26.
Yoshikawa, Nobuhiro, to Takara Co., New York, Inc. Barber chair or similar article. 192,501, 4–3–62, Cl. D15—3.
Yoshikawa, Nobuhiro, to Takara Co., New York, Inc. Barber chair or similar article. 192,502, 4–3–62, Cl. D15—3.
Yoshizumi, Kenji. Jug. 193,687, 9–25–62, Cl. D58—5.
Yoshizumi, Kenji. Bottle. 193,812, 10–9–62, Cl. D58—6.
Yoshizumi, Kenji, and G. M. Frank. Bottle. 194,245, 12–18–62, Cl. D58—6.
Young, Charles J., to Radio Corp. of America. Photographic copying apparatus. 193,692, 9–25–62, Cl. D61—1.
Young, Cornelius J. : *See*—
Whitley, Willard F., Jr., and Young. 194,063.
Young, Marion. Garbage can holder. 193,957, 10–30–62, Cl. D58—26.
Young, Ralph C., and R. T. Bingman, to White Mfg. Co. Convertible vehicle top or similar article. 194,182, 12–4–62, Cl. D14—27.
Young, Raymond A. : *See*—
Walker, Howell L., and Young. 192,583.
Walker, Howell L., and Young. 193,122.
Walker, Howell L., and Young. 193,369.
Young Regulator Co. : *See*—
Jeffrey, Max L. 192,951.
Young, Stephen A. Five pointed handle for faucets. 192,989, 6–5–62, Cl. D91—3.
Young, Stuart A., to The International Silver Co. Spoon or similar article of flatware. 192,576, 4–10–62, Cl. D54—12.
Youngman-Carter, Philip. Game cloth. 192,365, 3–13–62, Cl. D34—5.
Zbikowski, Ted. Face shield for safety helmets. 193,921, 10–23–62, Cl. D83—1.
Zbikowski, Ted, to Joseph Buegeleisen Co. Eye shield. 194,221, 12–11–62, Cl. D57—1.
Zeeman, Henry. Stiffened net fabric. 193,106, 6–26–62, Cl. D47—6.
Zeigler, John M., to American Radiator & Standard Sanitary Corp. Faucet. 193,604, 9–11–62, Cl. D91—3.
Zeller, Henry. Over-door insect repelling fan. 193,160, 7–3–62, Cl. D62—4.
Zelony, Emanuel M. Therapeutic head covering device or similar article. 192,953, 5–29–62, Cl. D83—1.
Zenner, Walter J., to Teletype Corp. Wall mounted printing telegraph apparatus cabinet. 193,879, 10–16–62, Cl. D64—11.
Zenor, Robert M. : *See*—
Sohn, John P., Brighton, and Zenor. 192,775.
Ziabicki, Joseph M. Racquet for a tether ball game. 192,740, 5–8–62, Cl. D34—5.
Ziegenfuss, Truman S. Combined table and multiple seating unit. 192,115, 1–23–62, Cl. D15—1.
Zierhut, Clarence D., to Shore-Calnevar, Inc. Ornament for a wheel cover. 192,287, 2–27–62, Cl. D14—30.
Zierhut, Clarence D., to Shore-Calnevar, Inc. Wheel cover. 192,319, 3–6–62, Cl. D14—30.
Zierhut, Clarence D. Pen clip or the like. 192,836, 5–15–62, Cl. D74—1.
Zimmerili, Herman O. Combined clamp and stop for an accelerator pedal. 193,839, 10–16–62, Cl. D14—6.
Zimmerman, Jack J., to Phonex Instrument Co., Inc. Grass trimmer. 192,172, 2–6–62, Cl. D40—1.
Zipursky, Morley, and D. Katzman. Expandable home trailer. 193,549, 9–11–62, Cl. D14—3.
Zoda, Frederick A., to Circle F Mfg. Co. Feed-through switch. 192,426, 3–20–62, Cl. D26—13.
Zorn, Martin F., to Imperial Knife Associated Companies, Inc. Knife or similar article of cutlery. 192,916, 5–29–62, Cl. D22—3.
Zucca, Adeline R. Spoon holder or similar article. 192,230, 2–13–62, Cl. D44—29.
Zuckerman, Jack M., to Yankee Plastics, Inc. Garment hanger. 192,279, 2–20–62, Cl. D80—8.
Zuckerman, Jack M., to Yankee Plastics, Inc. Garment hanger. 192,280, 2–20–62, Cl. D80—8.
Zuckerman, Jack M., to Yankee Plastics, Inc. Garment hanger. 192,281, 2–20–62, Cl. D80—8.
Zuckerman, Jack M., to Yankee Plastics, Inc. Garment hanger. 193,257, 7–17–62, Cl. D80—8.
Zummach, Wm. F., Inc. : *See*—
Leep, Myles W., Jr. 192,400.
Zurawinski, Mitchell : *See*—
Knauer, Edward P., Stevens, and Zurawinski. 192,458.
Zurawski, Edward F., to Garcy Corp. Fluorescent light fixture. 193,022, 6–12–62, Cl. D48—23.
Zylite Products Co., Inc. : *See*—
Green, Murray E. 193,114.

1962

LIST OF PLANT PATENTEES

Anderson, Frederick W., to Kim Bros. Apricot tree. 2,192, 11–20–62, Cl. 47—62.

Anderson, Frederick W., to L. E. Cooke Co. Nectaring tree. 2,193, 11–20–62, Cl. 47—62.

Anderson, Frederic W., to Fowler Nurseries, Inc. Cherry tree. 2,198, 12–4–62, Cl. 47—62.

Antaes Lineal 1948, ANL Medical Laboratory Division, Inc.: *See*—
Nettleship, Mae B. and A. 2,157.

Anthony Machine and Engineering Service, Inc.: *See*—
Silva, William E. 2,191.

Armstrong, David L., and H. C. Swim, to Armstrong Nurseries, Inc. Rose plant. 2,170, 9–4–62, Cl. 47—61.

Armstrong, David L., and H. C. Swim, to Armstrong Nurseries, Inc. Rose plant. 2,187, 10–23–62, Cl. 47—61.

Armstrong Nurseries, Inc.: *See*—
Armstrong, David L., and Swim. 2,170.
Armstrong, David L., and Swim. 2,187.
Begonia, Francisco B., and De Vor. 2,150.
Swim, Herbert C. 2,169.

Ashley, Pallas N., to Stuke Nursery Co. Walnut tree. 2,168, 9–4–62, Cl. 47—62.

Asseretto, Angelo, to M. Blanchon. Rose plant. 2,120, 1–9–62, Cl. 47—61.

Avis, Floyd D., to Stark Bro's Nurseries & Orchards Co. Apple tree. 2,179, 10–2–62, Cl. 47—62.

Ball, George J., Inc.: *See*—
Lamborot, Lazare A. 2,117.
Lamborot, Lazare A. 2,118.
Lamborot, Lazare A. 2,119.

Barstow, George B. Setcreasea puppurea. 2,160, 8–7–62, Cl. 47—59.

Begonia, Francisco B., and P. F. De Vor, to Armstrong Nurseries, Inc. Rose plant. 2,150, 5–29–62, Cl. 47—61.

Belcher, Darrol D. Maple tree. 2,139, 4–24–62, Cl. 47—59.

Blanchon, Michel: *See*—
Asseretto, Angelo. 2,120.

Boerner, Eugene S., to Jackson & Perkins Co. Chrysanthemum plant. 2,125, 1–30–62, Cl. 47—60.

Boerner, Eugene S., to Jackson & Perkins Co. Chrysanthemum plant. 2,126, 1–30–62, Cl. 47—60.

Boerner, Eugene S., to Jackson & Perkins Co. Chrysanthemum plant. 2,127, 1–30–62, Cl. 47—60.

Boerner, Eugene S., to Jackson & Perkins Co. Rose plant. 2,128, 1–30–62, Cl. 47—60.

Boerner, Eugene S., to Jackson & Perkins Co. Rose plant. 2,129, 1–30–62, Cl. 47—61.

Boerner, Eugene S., to Home Nursery Products Corp. Rose plant. 2,130, 2–13–62, Cl. 47—61.

Boerner, Eugene S., to Jackson & Perkins Co. Chrysanthemum plant, 2,146, 5–15–62, Cl. 47—60.

Boerner, Eugene S., to Jackson & Perkins Co. Rose plant. 2,149, 5–29–62, Cl. 47—61.

Boerner, Eugene S., to Jackson & Perkins Co. Rose plant. 2,167, 8–21–62, Cl. 47—61.

Boerner, Eugene S., to Jackson & Perkins Co. Rose plant. 2,181, 10–9–62, Cl. 47—61.

Boerner, Eugene S., to Jackson & Perkins Co. Rose plant. 2,195, 11–20–62, Cl. 47—61.

Boerner, Eugene S., to Jackson & Perkins Co. Rose plant. 2,196 11–20–62, Cl. 47—61.

Boerner, Eugene S., to Jackson & Perkins Co. Rose plant. 2,200, 12–4–62, Cl. 47—61.

Bristol Nurseries, Inc.: *See*—
Cumming, Roderick W. 2,136.

Brooks, Lenard L. Azalea plant. 2,133, 3–13–62, Cl. 47—60.

Brown, Robert L., to Stark Bro's Nurseries & Orchards Co. Peach tree. 2,124, 1–30–62, Cl. 47—62.

Burr, C. R., & Co., Inc.: *See*—
Lammerts, Walter E. 2,121.
Swim, Herbert C., and Weeks. 2,143.

Byrum, Roy L., to Joseph H. Hill Co. Rose plant. 2,183, 10–16–62, Cl. 47—61.

California Packing Corp.: *See*—
Thomson, Morris A. 2,180.

Callison, Robert A. Peach tree. 2,166, 8–14–62, Cl. 47—62.

Conard-Pyle Co., The: *See*—
Meilland, Alain. 2,155.
Meilland, Marie L. 2,140.
Meilland, Marie L. 2,141.
Meilland, Marie L. (nee Paolino). 2,142.
Meilland, Marie L. (nee Paolino). 2,186.
Swim, Herbert C., and Weeks. 2,132.

Cooke, L. E., Co.: *See*—
Anderson, Frederic W. 2,193.

Cumming, Roderick W., to Bristol Nurseries, Inc. Chrysanthemum plant. 2,136, 4–17–62, Cl. 47—60.

De Mott, Monroe F., and G. E. Johnson. Rose plant. 2,201. 12–18–62, Cl. 47—61.

Dering, Eldon P.: *See*—
Von Abrams, Gordon J. 2,137.
Von Abrams, Gordon J. 2,162.

De Vor, Paul F.: *See*—
Begonia, Francisco B., and De Vor. 2,150.

Doerr, Ervin H. Gladiolus plant. 2,131, 2–20–62, Cl. 47—60.

Endres Floral Co., Inc.: *See*—
Ravine, Marion D. 2,205.

Fair, Sara T. Summer apple. 2,178, 10–2–62, Cl. 47—62.

Farmer Seed & Nursery Co.: *See*—
Jacobs, Rufus. 2,147.

Fischer, Carl H., to Selected Glads, Inc. Gladiolus plant. 2,158. 7–24–62, Cl. 47—60.

Fischer Greenhouses: *See*—
Reid, George A. 2,122.

Fowler Nurseries, Inc.: *See*—
Anderson, Frederic W. 2,198.

Fujihara, Paul K. Peach tree. 2,202, 12–18–62, Cl. 47—62.

Germain's, Inc.: *See*—
Whisler, Milton L. 2,203.

Gill, Marion E., to Philip's Pride Inc. Tangelo tree. 2,148, 5–22–62, Cl. 47—62.

Harris, Cliff: *See*—
Rubel, Robert O., Jr. 2,206.
Rubel, Robert O., Jr. 2,207.

Hemet Wholesale: *See*—
Lindquist, Robert V. 2,151.
Lindquist, Robert V. 2,173.

Hill, E. G., Co., Inc.: *See*—
Jelly, Robert G. 2,164.
Jelly, Robert G. 2,165.

Hill, Joseph H., Co.: *See*—
Byrum, Roy L. 2,183.

Home Nursery Products Corp.: *See*—
Boerner, Eugene S. 2,130.

Jackson & Perkins Co.: *See*—
Boerner, Eugene S. 2,125–29.
Boerner, Eugene S. 2,146.
Boerner, Eugene S. 2,149.
Boerner, Eugene S. 2,167.
Boerner, Eugene S. 2,181.
Boerner, Eugene S. 2,195.
Boerner, Eugene S. 2,196.
Boerner, Eugene S. 2,200.
Morey, Dennison H., Jr. 2,154.
Morey, Dennison H., Jr. 2,182.
Morey, Dennison H., Jr. 2,184.
Morey, Dennison H., Jr. 2,188.
Morey, Dennison H., Jr. 2,194.
Morey, Dennison H., Jr. 2,199.

Jacobs, Rufus, to Farmer Seed & Nursery Co. Strawberry plant. 2,147, 5–22–62, Cl. 47—62.

Jelly, Robert G., to E. G. Hill Co., Inc. Rose plant. 2,164, 8–14–62, Cl. 47—61.

Jelly, Robert G., to E. G. Hill Co., Inc. Rose plant. 2,165, 8–14–62, Cl. 47—61.

Johnson, George E.: *See*—
De Mott, Monroe F., and Johnson. 2,201.

Kim Bros.: *See*—
Anderson, Frederic W. 2,192.

Lamborot, Lazare A., to George J. Ball, Inc. Chrysanthemum plant. 2,117, 1–2–62, Cl. 47—60.

Lamborot, Lazare A., to George J. Ball, Inc. Chrysanthemum plant. 2,118, 1–2–62, Cl. 47—60.

Lamborot, Lazare A., to George J. Ball, Inc. Chrysanthemum plant. 2,119, 1–2–62, Cl. 47—60.

Lammerts, Walter E., to C. R. Burr & Co., Inc. Rose plant. 2,121, 1–16–62, Cl. 47—61.

Le Grice, Edward B. Rosa floribunda plant. 2,189, 11–6–62, Cl. 47—61.

Le Grice, Edward B. Hybrid tea-rose plant. 2,190, 11–6–62, Cl. 47—61.

Le Grice, Edward B. Rosa floribunda plant. 2,197, 11–27–62, Cl. 47—61.

Lindholm, Helge W. Peach tree. 2,135, 4–17–62, Cl. 47—62.

Lindquist, Robert V., to Hemet Wholesale. Rose plant. 2,151, 5–29–62, Cl. 47—61.

Lindquist, Robert V., to Hemet Wholesale. Rose plant. 2,173, 9–18–62, Cl. 47—61.

Mansuino, Quinto. Rose plant. 2,134, 3–27–62, Cl. 47—61.

Meilland, Alain, to The Conard-Pyle Co. Rose plant. 2,155, 7–10–62, Cl. 47—61.

Meilland, Marie L., to The Conard-Pyle Co. Rose plant. 2,140, 4–24–62, Cl. 47—61.

Meilland, Marie L., to The Conard-Pyle Co. Rose plant. 2,141, 4–24–62, Cl. 47—61.

Meilland, Marie L. (nee Paolino), to The Conard-Pyle Co. Rose plant. 2,142, 4–24–62, Cl. 47—61.
Meilland, Marie L. (nee Paolino), to The Conard-Pyle Co. Rose plant. 2,186, 10–23–62, Cl. 47—61.
Merrill, Grant. Nectarine tree. 2,138, 4–17–62, Cl. 47—62.
Merrill, Grant. Peach tree. 2,144, 5–1–62, Cl. 47—62.
Merrill, Grant. Nectarine tree. 2,145, 5–1–62, Cl. 47—62.
Merrill, Grant. Peach tree. 2,152, 6–12–62, Cl. 47—62.
Merrill, Grant. Peach tree. 2,153, 6–12–62, Cl. 47—62.
Moore, Ralph S. Miniature rose plant. 2,175, 9–25–62, Cl. 47—61.
Moore, Ralph S. Miniature rose plant. 2,176, 9–25–62, Cl. 47—61.
Moore, Ralph S. Miniature rose plant. 2,177, 9–25–62, Cl. 47—61.
Morey, Dennison H., Jr., to Jackson & Perkins Co. Rose plant. 2,154, 6–12–62, Cl. 47—61.
Morey, Dennison H., Jr., to Jackson & Perkins Co. Rose plant. 2,182, 10–9–62, Cl. 47—61.
Morey, Dennison H., Jr., to Jackson & Perkins Co. Rose plant. 2,184, 10–16–62, Cl. 47—61.
Morey, Dennison H., Jr., to Jackson & Perkins Co. Rose plant. 2,188, 10–30–62, Cl. 47—61.
Morey, Dennison H., Jr., to Jackson & Perkins Co. Rose plant. 2,194, 11–20–62, Cl. 47—61.
Morey, Dennison H., Jr., to Jackson & Perkins Co. Rose plant. 2,199, 12–4–62, Cl. 47—61.
Nettleship, Anderson: *See*—
Nettleship, Mae B. and A. 2,157.
Nettleship, Mae B. and A., to Antaes Lineal 1948, ANL Medical Laboratory Division, Inc. Indigo plant. 2,157, 7–24–62, Cl. 47—60.
Osborn, Hazel T. Chrysanthemum plant. 2,185, 10–23–62, Cl. 47—60.
Philip's Pride Inc.: *See*—
Gill, Marion E. 2,148.
Ravine, Marion D., to Endres Floral Co., Inc. Rose plant. 2,205, 12–25–62, Cl. 47—61.
Reid, George A., to Fischer Greenhouses. Azalea plant. 2,122, 1–16–62, Cl. 47—60.
Robison, John B. Peach tree. 2,163, 8–14–62, Cl. 47—62.
Rubel, Robert O., Jr., to Cliff Harris. Camellia plant. 2,206, 12–25–62, Cl. 47—60.
Rubel, Robert O., Jr., to Cliff Harris. Camellia plant. 2,207, 12–25–62, Cl. 47—60.
Selected Glads, Inc.: *See*—
Fischer, Carl H. 2,158.
Silva, William E., to Anthony Machine and Engineering Service, Inc. Rose plant. 2,191, 11–6–62, Cl. 47—61.
Stark Bro's Nurseries & Orchards Co.: *See*—
Avis, Floyd D. 2,179.
Brown, Robert L. 2,124.
Stropkey, John G. Lilac bush. 2,204, 12–25–62, Cl. 47—60.
Stuke Nursery Co.: *See*—
Ashley, Pallas N. 2,168.
Swim, Herbert C.: *See*—
Armstrong, David L., and Swim. 2,170.
Armstrong, David L., and Swim. 2,187.
Swim, Herbert C., to Armstrong Nurseries, Inc. Camellia plant. 2,169, 9–4–62, Cl. 47—60.
Swim, Herbert C., and O. L. Weeks, to The Conard-Pyle Co. Rose plant. 2,132, 2–27–62, Cl. 47—61.
Swim, Herbert C., and O. L. Weeks, to C. R. Burr and Co., Inc. Rose plant. 2,143, 5–1–62, Cl. 47—61.
Thomas, Charles B. Water lily plant. 2,161, 8–7–62, Cl. 47—60.
Thomas, Charles B. Water lily plant. 2,172, 9–18–62, Cl. Cl. 47—60.
Thompson, Joshua H., Jr., to J. H. Thompson's Sons. Rose plant. 2,123, 1–23–62, Cl. 47—61.
Thompson's, J. H., Sons: *See*—
Thompson, Joshua H., Jr. 2,123.
Thomson, Morris A., to California Packing Corp. Peach tree. 2,180, 10–9–62, Cl. 47—62.
Tiret, Horace M. Fuchsia plant. 2,171, 9–18–62, Cl. 47—60.
Tiret, Horace M. Fuchsia plant. 2,174, 9–25–62, Cl. 47—60.
Tucker, William R. Pecan plant. 2,156,7–17–62, Cl. 37—62.
Von Abrams, Gordon J., to E. P. Dering, Rose Plant. 2,137. 4–17–62, Cl. 47—61.
Von Abrams, Gordon J., to E. P. Dering. Rose plant. 2,162, 8–14–62, Cl. 47—61.
Weeks, O. L.: *See*—
Swim, Herbert C., and Weeks. 2,132.
Swim, Herbert C., and Weeks. 2,143.
Whisler, Milton L., to Germain's, Inc. Rose plant. 2,203, 12–18–62, Cl. 47—61.

1962
CLASSIFICATION OF PATENTS

Class 1

1: 3,023,412
3,027,558
3,027,559
2: 3,065,469
3: 3,016,538
3,022,508
3,026,518
3,026,519
3,036,306
3,037,206
3,056,963
3,069,683
3.1: 3,056,137
3,058,114
7: 3,017,634
3,021,525
3,030,624
3,040,324
19: 3,017,635
44.4: 3,023,413
3,035,268
3,037,207
3,041,614
3,049,712
3,049,713
3,056,964
44.5: 3,016,539
3,018,481
3,019,440
3,019,441
3,023,414
3,024,464
3,029,434
3,029,435
3,036,307
3,038,159
3,040,325
3,040,326
3,041,615
3,041,616
3,044,070
3,044,071
3,045,242
3,046,557
3,048,849
3,048,850
3,049,714
3,050,732
3,054,110
3,055,007
3,055,008
3,058,115
3,058,116
3,060,435
3,060,436
3,060,437
3,060,438
3,061,833
3,061,834
3,063,054
3,064,762
3,066,302
3,066,303
46: 3,022,509
3,038,160
3,041,617
3,042,924
3,042,925
3,044,072
3,060,439
3,067,423
47: 3,060,440
3,060,441
3,061,835
48: 3,029,436
49: 3,017,636
3,027,560
3,034,128
3,035,269
3,049,715
3,061,836
49.8: 3,031,669
3,050,733
3,060,442
50: 3,017,637
3,022,510
52: 3,038,161
56: 3,031,670
3,032,767
3,067,424
66: 3,031,671
3,032,769
68: 3,022,511
3,061,837
105: 3,060,443
106: 3,022,512
3,022,513
3,032,768
3,041,618
3,047,873
3,055,009
3,056,138
3,056,965
3,058,117
107: 3,040,327
117: 3,068,482
120: 2,058,118
137: 3,030,625
147: 3,018,482
149: 3,056,139
3,068,483
3,068,484
3,069,684
165: 3,031,672
177: 3,023,415
3,032,770
3,034,129
3,041,619
3,056,966
3,069,685
187: 3,023,416
3,023,417
3,026,520
3,038,162
3,041,620
3,064,263
3,066,304
3,068,485
215: 3,036,308
220: 3,037,208
3,069,686
260: 3,044,073
302: 3,036,309
3,046,558
3,069,687
309: 3,038,163
317: 3,019,442
318: 3,064,264
320: 3,028,601
321: 3,016,540
325: 3,065,470
3,069,688
329: 3,015,824
3,017,638
3,026,521
3,055,010
3,061,838
333: 3,029,437
335: 3,034,130
342: 3,044,074
345: 3,056,967
346: 3,040,328
348: 3,032,771
349: 3,047,874

Class 2

1: 3,045,243
3,047,875
2: 3,017,639
3,050,734
3,052,886
2.1: 3,024,465
3,026,522
3,030,626
3,032,772
3,034,131
3,042,926
2.5: 3,061,839
3: 3,015,103
3: 3,016,541
3,018,483
3,020,551
3,021,526
3,025,525
3,026,523
3,031,673
3,039,108
3,039,109
3,040,329
3,041,621
3,042,927
3,046,559
3,054,111
3,055,011
3,055,012
3,055,013
3,063,055
6: 3,015,104
3,026,524
3,028,602
3,030,627
3,046,560
3,050,735
3,066,305
3,067,425
7: 3,029,438
8: 3,034,127
3,026,525
3,041,622
3,060,444
3,067,426
9: Re.25,176
3,015,105
3,041,623
3,047,876
3,050,736
3,052,887
3,060,445
3,067,427
10: 3,035,270
11: 3,041,624
12: 3,029,439
13: 3,023,418
14: 3,016,542
3,016,543
3,027,561
3,027,562
3,030,628
3,031,674
3,031,675
3,036,310
3,039,110
3,042,928
3,049,716
3,051,957
3,056,140
15: 3,020,552
16: 3,049,717
19: 3,030,629
3,042,929
3,051,958
20: 3,037,209
3,066,306
21: 3,018,484
3,029,440
3,046,561
22: 3,044,075
24: 3,025,525
46: 3,056,968
49: 3,016,544
3,024,466
3,032,773
3,042,930
50: 3,031,676
52: 3,020,553
3,045,244
3,067,428
55: 3,019,443
60: 3,022,514
65: 3,051,959
68: 3,019,444
3,026,526
3,051,960
3,052,888
3,063,056
69.5: 3,034,132
70: 3,018,485
3,025,527
73: 3,055,014
3,060,446
74: 3,064,265
3,065,471
3,066,307
76: 3,049,718
3,054,112
3,059,240
78: 3,023,419
79: 3,015,106
80: 3,029,441
3,039,111
3,041,625
87: 3,018,486
88: 3,042,931
93: 3,031,677
3,049,719
94: 3,026,527
3,047,877
97: 3,034,133
3,047,878
98: 3,067,429
103: 3,058,119
108: 3,038,164
115: 3,015,107
116: 3,030,630
3,031,678
125: 3,037,210
128: 3,035,271
129: 3,068,486
131: 3,024,467
3,041,626
132: 3,026,528
3,039,112
3,049,562
3,060,447
141: 3,038,165
144: 3,025,528
145: 3,019,445
146: 3,036,311
150: 3,030,631
3,060,448
151: 3,022,515
3,034,134
153: 3,020,554
3,026,529
3,026,530
3,031,679
3,050,737
154: 3,069,689
158: 3,064,266
159: 3,031,680
161: 3,035,272
3,052,889
3,063,057
3,065,472
167: 3,026,531
3,050,738
3,059,241
171: 3,040,720
3,060,449
172: 3,035,273
174: 3,027,563
3,041,627
3,064,267
175: 3,054,113
3,068,487
177: 3,020,555
3,047,879
190: 3,069,690
192: 3,018,487
195: 3,015,108
3,027,565
3,039,113
3,041,628
197: 3,025,529
198: 3,031,681
199: 3,016,545
200: 3,047,880
203: 3,060,449
209: 3,050,739
3,051,961
209.3: 3,030,632
211: 3,034,135
3,054,114
212: 3,039,114
3,066,308
3,068,488
217: 3,054,268
221: 3,064,269
224: 3,019,446
3,020,556
3,034,136
229: 3,039,115
236: 3,042,932
3,052,890
237: 3,027,566
3,038,166
3,040,330
239: 3,017,640
3,023,420
243: 3,032,774
3,040,331
3,045,245
3,056,970
247: 3,051,962
248: 3,066,309
249: 3,029,442
251: 3,046,563
252: 3,023,421
255: 3,032,775
256: 3,037,211
258: 3,030,633
260: 3,020,557
3,045,270
265: 3,023,422
3,050,740
3,066,310
269: 3,045,246
270: 3,051,963
274: 3,038,167
278: 3,040,332
3,067,430
279: 3,026,532
300: 3,020,558
301: 3,026,533
3,052,891
302: 3,015,109
311: 3,064,271
322: 3,017,641
3,031,682
337: 3,069,691
338: 3,046,564
3,063,058

Class 3

1.2: 3,069,692
4: 3,058,120
12.7: 3,026,534
12.8: 3,036,312
22: 3,030,634
3,039,116
27: 3,015,825
32: 3,045,247
36: 3,067,431

Class 4

1: 3,018,488
3,021,528
3,031,683
3,032,776
3,054,115
2: 3,015,110
3: 3,066,311
6: 3,034,137
3,039,117
7: 3,015,826
3,019,447
3,044,076
3,045,248
3,066,312
8: 3,040,333
3,042,933
10: 3,044,077
18: 3,023,423
26: 3,029,443
3,052,892
28: 3,026,535
3,041,629
30: 3,060,450
37: 3,041,630
3,049,721
41: 3,019,448
3,063,059
47: 3,029,444
56: 3,022,516
3,025,530
3,045,249
3,060,451
57: 3,019,449
3,021,529
3,022,517
3,026,536
3,030,635
3,036,313
3,040,334
3,047,881
3,056,141
3,059,242
3,063,060
3,068,489
60: 3,066,313
64: 3,055,142
67: 3,015,827
3,027,567
3,038,168
3,046,565
3,047,882
3,067,432
68: 3,031,684
3,068,490
71: 3,060,452
74: 3,025,524
77: 3,024,468
3,035,274
3,058,121
78: 3,067,433
79: 3,038,169
3,038,170
99: 3,024,469
3,054,116
101: 3,066,314
110: 3,030,636
112: 3,025,531
3,066,315
3,069,693
113: 3,061,840
115: 3,054,117
126: 3,023,425
131: 3,020,559
134: 3,047,883
3,050,741
3,063,061
145: 3,045,250
3,048,851
146: 3,060,453
147: Re.25,107
3,067,434
148: 3,015,828
3,034,138
3,040,335
149: 3,025,532
3,054,118
154: 3,035,275
3,045,251
3,050,742
158: 3,061,841
159: 3,026,537
3,040,336
3,054,272
3,068,491
162: 3,025,533
164: 3,048,852
166: 3,018,489
3,065,473
3,069,694
167: 3,045,252
170: 3,018,490
3,060,454
171: 3,026,538
172: 3,016,546
172: 3,018,491
3,019,450
3,020,560
3,021,530
3,024,470
3,029,445
3,038,171
3,041,631
3,045,253
3,045,566
3,050,743
3,051,964
3,052,893
3,059,243
3,060,455
3,063,062
3,064,273
3,069,695
173: 3,020,561
3,024,471
3,028,603
3,045,254
3,066,316
177: 3,015,111
3,021,531
3,026,539
3,058,122
178: 3,034,139
180: 3,031,685
3,067,435
182: 3,026,540
3,027,568
184: 3,040,337
185: 3,016,547
3,020,562
3,022,518
3,028,604
3,034,140
3,045,255
3,046,567
186: 3,046,568
187: 3,020,563
3,022,519
3,028,605
3,029,446
3,034,141
3,034,142
3,034,143
3,034,144
3,034,145
3,034,146
3,034,147
3,034,148
3,034,149
3,034,150
3,038,172
3,040,338
3,041,632
3,046,569
3,056,971
191: 3,035,276
3,067,436
192: Re.25,175
213: 3,020,564
3,049,722
3,059,244
3,059,245
3,068,317
3,069,696
216: 3,064,274
222: 3,068,492
225: 3,060,456
3,061,842
228: 3,019,451
3,023,426
3,023,427
3,060,457
236: 3,019,452
3,038,173
3,063,063
237: 3,060,458
240: 3,032,777
3,040,339
3,046,570
3,055,015
249: 3,019,453
3,032,778

Class 4—Con.

249: 3,034,151
3,056,143
251: 3,055,016
252: 3,020,565
3,037,212
3,048,853
3,054,119
253: 3,024,472
3,048,854
3,056,972
254: 3,047,884
255: 3,021,532
256: 3,023,638
3,064,275
263: 3,066,318
287: 3,027,569
3,069,697
295: 3,060,459

Class 5

2: 3,041,633
3,055,017
3,055,018
3,058,123
3,059,246
3,059,247
3: 3,035,277
7: 3,048,555
8: 3,015,112
3,037,213
3,049,723
9: 3,028,606
3,042,934
3,047,885
3,054,120
13: 3,024,473
3,030,637
3,041,634
3,047,886
3,056,973
3,065,474
17: 3,019,454
3,025,534
3,027,570
3,028,607
3,028,608
3,048,856
3,064,276
3,066,319
3,069,698
18: 3,041,635
3,050,460
35: 3,049,724
41: 3,046,571
42: 3,025,535
57: 3,042,935
59: 3,027,571
3,069,699
62: 3,034,152
63: 3,015,113
3,036,314
3,038,174
3,039,118
3,045,256
3,050,744
3,059,248
66: 3,061,843
68: 3,051,965
71: 3,055,019
81: 3,026,841
3,041,636
3,052,894
82: 3,039,119
3,040,340
3,066,320
83: 3,030,638
3,042,936
86: 3,015,114
3,026,542
3,049,725
3,049,726
3,050,745
90: 3,023,429
92: 3,029,447
3,037,214
93: 3,018,492
94: 3,032,779
3,063,064
98: Re.25,195
3,034,153
3,064,277
99: 3,034,493
3,025,536
3,040,341
3,049,727
3,049,728
3,063,065
100: 3,026,543
3,044,078
3,069,700
102: 3,044,079
109: 3,022,520
3,031,686
3,031,687
3,040,342
3,056,144
3,056,145
3,060,461
111: 3,037,215
3,044,080
3,045,257
114: 3,029,448
118: 3,037,216
3,054,121
3,067,437
119: 3,028,609
120: 3,031,688
136: 3,046,572
184: 3,064,278
191: 3,068,493
200: 3,049,729
214: 3,019,455
237: 3,067,438
246: 3,059,249
247: 3,056,974
296: 3,027,572
310: 3,031,689
317: 3,024,474
3,035,278
3,045,258
3,050,746
319: 3,050,747
320: 3,066,321
327: 3,021,533
3,030,639
3,032,780
3,041,637
3,066,322
331: 3,021,534
3,032,781
3,045,259
3,048,857
3,055,020
3,056,975
3,059,250
3,063,066
332: 3,042,937
3,054,122
334: 3,020,566
3,045,260
3,047,887
3,060,462
3,066,323
337: 3,035,279
3,035,280
3,042,938
3,046,573
3,064,279
338: 3,050,748
3,061,844
343: 3,042,939
3,045,261
344: 3,041,638
3,052,895
345: 3,023,430
3,038,175
3,058,124
347: 3,038,176
3,050,749
3,051,966
3,058,125
348: 3,042,940
3,042,941
3,068,494
349: 3,017,642
3,030,640
350: 3,063,067
351: 3,022,521
3,046,574
3,049,730
3,055,021
3,056,146
3,069,701
352: 3,058,126
353: 3,031,690
3,064,280
353.2: 3,040,343
353.7: 3,022,522
3,064,281
3,068,495
354: 3,024,475
3,024,476
3,024,477
3,031,691
3,032,782
355: 3,019,456
3,027,573
3,028,610
361: 3,022,523
3,026,544
3,047,888
3,059,251

Class 6

4: 3,069,702
12: 3,068,496

Class 7

5.5: 3,044,081
8.1: 3,038,177
14.1: 3,059,252
14.6: 3,038,178

Class 8

1: 3,042,475
3,049,392
3,058,797
3,063,779
3,063,780
3: 3,047,352
3,056,642
4: 3,029,121
3,034,847
3,069,987
6.5: 3,016,279
10: 3,049,393
14: 3,053,604
17: 3,044,843
3,046,575
3,069,218
18: 3,066,998
21: 3,027,220
25: 3,042,476
26: 3,041,129
3,059,988
32: 3,036,875
34: 3,031,252
3,051,541
3,056,643
37: 3,043,645
40: 3,043,646
41: 3,043,647
3,068,056
42: 3,043,648
3,061,397
43: 3,062,609
46: 3,029,122
3,051,542
48: 3,069,219
54: 3,057,673
54.2: 3,029,123
3,043,649
3,043,650
3,066,005
55: 3,018,154
3,023,071
3,035,881
3,036,876
3,037,835
3,037,836
3,039,840
3,042,477
3,042,478
3,046,076
3,049,394
3,052,510
3,068,057
3,069,220
56: 3,059,989
59: 3,016,580
61: 3,021,188
3,033,640
62: 3,025,126
3,068,058
70: 3,045,077
79: 3,034,848
3,034,849
3,048,464
3,049,395
3,070,418
82: 3,023,072
3,055,726
83: 3,018,155
3,057,674
84: 3,025,127
86: 3,047,353
3,047,354
89: 3,038,775
92: 3,069,221
93: 3,056,644
94: 3,035,550
94.1: 3,041,130
94.18: 3,030,170
94.21: 3,066,997
94.22: 3,035,882
94.24: 3,035,877
3,065,039
94.26: 3,039,841
94.32: 3,068,059
94.33: 3,023,073
3,027,221
3,063,781
97: 3,061,398
108: 3,019,075
108: 3,050,359
3,063,782
3,063,783
3,065,040
109: 3,030,171
3,035,883
3,056,645
111: 3,017,236
3,026,166
3,034,851
115.5: 3,022,131
3,027,222
3,031,253
3,047,355
3,053,605
3,063,784
115.6: 3,053,606
116: 3,046,078
3,065,041
116.2: 3,016,281
3,018,156
3,038,776
3,057,675
3,068,060
116.4: 3,038,777
3,046,079
117: 3,053,607
3,053,608
120: 3,017,237
3,024,080
3,052,511
3,061,399
121: 3,015,537
3,051,543
125: 3,027,223
128: 3,019,076
3,046,080
3,051,544
3,053,609
3,055,727
3,059,990
3,062,610
130.1: 3,023,074
3,069,222
131: 3,025,128
3,025,129
3,031,254
137: 3,061,400
3,063,785
142: 3,030,172
3,042,479
3,057,676
150: 3,032,383
151: 3,016,282
3,042,480
3,058,798
3,066,998
151.2: 3,026,167
3,066,006
155.2: 3,049,396
158: 3,026,168
159: 3,039,842
3,046,081
3,069,223

Class 9

1: 3,016,548
3,021,535
3,025,537
3,028,611
3,031,692
3,032,783
3,035,281
3,035,282
3,042,942
3,045,262
3,045,263
3,051,967
3,052,896
3,055,022
3,055,023
3,055,024
3,060,463
3,067,439
2: 3,023,431
3,025,843
3,032,784
3,048,858
3,049,731
3,056,147
3,056,976
3,061,845
3: 3,035,283
4: 3,044,082
3,064,282
6: 3,024,478
3,032,785
3,035,284
3,038,179
3,040,344
3,044,083
3,056,977
3,060,464
3,063,068
6: 3,063,069
3,064,283
3,069,703
8: 3,020,567
3,037,217
3,041,639
3,049,732
3,050,750
3,059,253
3,066,324
3,066,325
9: 3,031,693
3,035,285
3,049,733
3,054,123
3,056,978
3,059,254
3,068,497
11: 3,019,457
3,021,536
3,031,694
3,034,154
3,034,155
3,035,286
3,037,218
3,048,859
3,054,124
3,056,979
3: 3,058,127
14: 3,016,549
3,018,494
3,026,545
3,036,315
3,060,465
24: 3,025,538
3,030,641
3,037,219
3,039,120
3,052,897
3,059,255
3,064,284
3,068,498
26: 3,064,285
30: 3,065,475
36: 3,069,704
39: 3,034,156
41: 3,032,786
3,052,898
304: 3,042,943
307: 3,015,829
308: 3,023,432
3,063,070
309: 3,019,458
3,032,787
3,055,025
3,068,499
310: 3,015,830
3,015,831
3,020,568
3,025,539
3,026,546
3,027,574
3,027,575
3,027,576
3,031,695
3,031,696
3,031,697
3,034,157
3,040,345
3,042,944
3,042,945
3,045,264
3,049,734
3,050,751
3,052,899
3,056,148
3,056,980
3,061,846
3,063,071
3,064,286
3,066,326
3,066,327
3,066,328
3,067,440
312: 3,022,524
3,026,547
3,025,848
3,037,220
313: 3,061,847
314: 3,048,860
316: 3,042,946
3,045,575
319: 3,032,788
3,064,287
329: 3,047,889
333: 3,015,115
334: 3,050,752
336: 3,023,433
337: 3,049,735
3,050,753
338: 3,042,947
3,045,576
3,068,500
340: 3,032,789
3,049,736
340: 3,050,754
342: 3,019,459
345: 3,065,476
347: 3,020,569
3,036,316
3,067,441

Class 10

1: 3,025,540
5: 3,036,317
10: 3,020,570
3,037,221
11: 3,048,861
12.5: 3,031,698
15: 3,030,642
21: 3,056,981
27: 3,022,525
34: 3,056,982
54: 3,019,460
72: 3,036,318
76: 3,022,526
86: 3,021,537
89: Re.25,158
101: 3,066,330
105: 3,026,549
3,041,640
3,052,900
107: 3,049,737
111: 3,021,538
115: 3,061,848
127: 3,031,699
128: 3,060,466
129: 3,017,643
130: 3,015,832
132: 3,038,128
133: 3,056,983
134: 3,036,319
135: 3,045,265
136: 3,021,539
3,061,849
138: 3,015,116
139: 3,015,117
3,038,129
3,060,467
145: 3,022,577
3,041,641
152: 3,050,755
162: 3,031,700

Class 11

1: 3,016,550
3,023,434
3,038,180
3,038,181
3,061,850
2: 3,068,501

Class 12

1: 3,024,479
3,024,480
3,024,481
3,038,182
3,045,266
3,048,862
3,061,851
3,066,331
4.3: 3,069,705
4.4: 3,063,072
7.1: 3,032,790
3,061,852
8.2: 3,037,222
3,051,968
3,051,969
3,060,468
8.5: 3,022,527
8.8: 3,020,571
3,046,577
3,051,970
10.1: 3,025,541
3,039,121
10.8: 3,066,329
11.3: 3,060,469
12: 3,016,551
12.4: 3,032,791
3,035,287
3,046,578
3,059,256
12.5: 3,040,346
16.2: 3,055,026
3,055,027
16.4: 3,030,643
3,056,149
16.5: 3,028,613
3,069,706
17: 3,055,150
3,061,853
3,063,073
17.2: 3,019,461
18.2: 3,046,579
18.5: 3,025,542
20: 3,030,644
3,048,863
20: 3,058,130
24.5: 3,040,347
27: 3,021,540
31.5: 3,021,541
37: 3,040,348
38: 3,052,901
41.1: 3,017,644
43.5: 3,025,543
49.1: 3,033,435
50.5: 3,044,084
3,069,707
53.5: 3,023,436
3,038,183
3,038,184
3,069,708
53.6: 3,032,792
53.7: 3,041,642
54.3: 3,017,645
54.4: 3,048,864
55: 3,016,552
3,035,288
57.6: 3,024,482
59.7: 3,046,580
3,055,028
66: 3,044,085
3,059,257
77.5: 3,032,793
85: 3,061,854
103: 3,034,158
115.6: 3,021,542
116.6: 3,068,502
116.8: 3,020,572
117.4: 3,034,159
3,038,184
120.5: 3,035,289
3,035,290
123: 3,054,125
123.3: 3,052,902
126: 3,044,086
128: 3,025,543
133: 3,067,442
136: 3,027,578
3,027,579
3,034,160
3,040,349
3,060,470
142: 3,021,543
3,025,544
3,029,449
3,035,291
3,045,581
3,047,890
3,051,971
3,052,903
3,052,904
3,054,126
3,056,984
3,063,074
3,063,075
3,064,288
145: 3,030,756
146: 3,025,545
3,029,450
3,035,292
3,042,948
3,045,582
3,063,076
147: 3,034,161

Class 13

1: 3,053,918
5: 3,020,323
6: 3,020,324
3,028,442
3,030,645
3,047,647
3,048,640
3,056,846
8: 3,053,919
9: Re.25,124
3,021,376
3,059,038
10: 3,035,106
12: 3,043,894
13: 3,042,731
14: 3,042,732
3,057,935
15: 3,021,377
16: 3,059,039
17: 3,060,250
20: 3,025,333
23: 3,049,576
25: Re.25,261
3,057,936
26: 3,053,920
3,055,959
27: 3,043,895
28: 3,053,921
31: 3,019,274
3,019,275
3,040,112
3,046,320

31: 3,061,655
3,068,309
35: 3,057,937

Class 14

13: 3,058,132
14: 3,066,332
27: 3,021,544
71: Re.25,249
3,017,646
3,018,495
3,018,496
3,021,545
3,031,701
3,038,185
3,047,891
3,059,258
3,060,471
3,061,855
3,064,289
72: 3,027,580
3,030,645
3,034,162
3,069,709

Class 15

1.7: 3,019,462
3,039,122
3,046,583
3,061,860
3: 3,044,087
3.1: 3,061,856
3.12: 3,066,333
3,066,334
3.17: 3,047,892
3.51: 3,021,546
4: 3,026,550
3,026,551
3,060,472
3,063,078
5: 3,049,738
21: 3,016,553
3,017,647
3,024,483
3,025,546
3,030,646
3,035,293
3,036,320
3,037,223
3,037,224
3,038,186
3,042,949
3,044,088
3,044,089
3,044,090
3,048,865
3,048,866
3,055,029
3,058,133
3,060,473
3,064,290
3,064,291
3,066,335
3,066,336
3,067,443
22: 3,046,584
3,060,474
3,066,337
23: 3,015,833
3,019,463
3,023,437
3,028,614
3,029,451
24: 3,046,585
28: 3,039,123
29: 3,015,151
3,065,477
31: 3,022,528
34: 3,066,338
36: 3,032,794
3,048,857
3,060,475
3,069,710
37: 3,029,452
3,037,225
38: 3,035,134
41: 3,034,163
3,058,135
44: 3,061,857
49: 3,020,573
3,022,529
3,027,581
3,044,091
3,055,030
3,056,152
3,060,476
3,061,858
3,066,339
3,066,340
3,068,503
50: 3,017,648
3,024,484
3,028,615
60: 3,036,321
3,040,350
3,041,644
3,042,950
3,045,267
3,046,586
3,055,031
3,056,153
3,058,136
3,061,859
3,064,292
3,069,711
58: 3,040,351
71: 3,047,893
75: 3,044,092
77: 3,032,795
3,060,477
79: 3,022,530
3,035,294
3,039,124
3,048,868
3,048,869
3,051,972
82: 3,037,226
84: 3,024,485
87: 3,028,616
88: 3,045,268
3,050,757
93: 3,035,295
3,037,227
3,049,739
3,061,860
3,066,341
97: 3,026,552
3,030,647
3,031,702
3,041,645
3,041,646
3,055,032
3,067,444
3,069,712
99: 3,047,894
3,051,973
3,052,905
100: 3,019,464
3,050,758
102: 3,031,703
104: 3,029,453
3,040,352
3,056,154
3,066,342
104.01: 3,044,093
104.04: 3,050,759
3,056,895
104.06: 3,047,895
3,056,155
3,056,156
3,058,137
3,063,079
3,063,080
104.07: 3,067,445
104.09: 3,056,157
104.1: 3,034,164
3,037,228
3,041,647
104.16: 3,025,548
104.19: 3,064,294
104.3: 3,025,547
3,048,870
3,064,293
104.8: 3,026,553
105: 3,017,649
3,051,974
3,051,975
3,052,906
105.5: 3,031,704
111: 3,036,322
3,046,587
3,047,896
112: 3,065,478
113: 3,050,760
114: 3,047,897
118: 3,038,187
3,039,125
3,040,353
119: 3,020,574
3,023,438
3,026,554
3,030,648
3,031,705
3,031,706
3,037,229
3,038,188
3,040,354
3,040,355
3,049,740
3,050,761
143: 3,018,497
3,023,439
3,046,588
3,067,446
144: 3,027,582
3,051,976
145: 3,021,547
146: 3,052,907
147: 3,029,454
3,031,707
3,040,356
3,041,648
3,045,269
3,050,762
3,064,295
159: 3,016,554
3,029,455
3,047,898
160: 3,028,617
162: 3,046,589
164: 3,027,583
167: 3,018,498
3,065,479
3,067,447
172: 3,065,480
180: 3,019,465
3,029,456
3,066,343
181: 3,038,189
3,056,158
182: 3,042,951
3,056,986
183: 3,023,440
3,036,223
3,065,481
184: 3,055,033
3,059,259
3,059,260
185: 3,064,296
193: 3,030,649
3,031,708
197: 3,050,763
3,055,034
198: 3,023,441
3,036,324
3,068,504
203: 3,065,482
205: 3,032,796
209: 3,015,118
3,016,555
3,028,618
3,040,357
3,046,590
3,050,764
3,055,035
3,060,478
3,061,861
210: 3,029,457
3,042,952
3,047,899
3,051,977
3,055,036
3,055,037
3,056,987
3,058,138
3,061,862
3,065,483
210.5: 3,059,261
215: 3,038,190
216: 3,045,270
220: 3,023,442
222: 3,024,486
3,063,081
228: 3,015,834
229: 3,016,556
3,027,584
3,037,230
3,065,484
3,066,344
3,068,505
230: 3,019,466
3,023,443
3,027,585
3,029,458
3,044,094
3,056,988
231: 3,056,989
235.3: 3,020,575
235.4: 3,018,499
3,029,459
235.6: 3,023,444
3,025,549
235.7: 3,050,159
235.8: 3,045,271
236: 3,019,467
3,041,649
3,041,650
3,061,863
3,069,713
3,069,714
244: 3,039,126
3,041,651
3,054,127
3,058,139
3,059,262
245: 3,065,485
246: 3,037,231
247: 3,034,165
248: 3,049,741
3,061,864
250: 3,027,586
250.01: 3,058,140
250.02: 3,015,119
3,015,835
3,017,650
3,025,550
3,025,551
3,027,232
3,039,127
3,041,652
3,046,591
3,058,142
3,059,263
3,068,506
250.04: 3,032,797
250.07: 3,034,166
250.12: 3,016,557
3,017,651
3,023,445
250.13: 3,045,272
250.14: 3,060,479
250.16: 3,016,558
3,025,552
3,025,553
250.17: 3,025,554
3,049,742
3,059,264
250.19: 3,019,468
3,048,871
250.2: 3,026,555
3,042,953
3,058,141
3,064,297
250.21: 3,019,469
3,047,900
250.22: 3,050,765
250.23: 3,035,296
3,061,865
3,067,448
250.24: 3,025,555
3,042,954
250.25: Re.25,266
250.27: 3,040,358
250.29: 3,034,167
250.32: 3,023,446
3,049,743
3,054,128
3,056,160
250.34: 3,056,990
3,058,143
250.35: 3,022,531
3,042,955
3,061,866
250.36: 3,021,548
3,035,297
3,040,359
3,048,872
3,059,265
250.41: 3,056,991
250.42: 3,018,500
3,018,501
3,021,549
3,022,532
3,029,460
3,031,709
3,035,298
3,037,233
3,041,653
3,041,654
3,044,095
3,048,873
3,060,480
256.51: 3,048,874
3,061,867
3,065,486
3,065,487
257.05: 3,044,096
257.2: 3,018,502
257.3: 3,056,992
257.5: 3,017,652
257.7: 3,017,653
258: 3,015,120
3,025,556
263: 3,037,234
264: 3,050,766
265: 3,026,556
267: 3,061,960
268: 3,039,128
3,044,097
301: 3,027,587
3,027,588
3,045,273
302: 3,044,098
304: 3,027,589
3,027,590
306: 3,042,956
3,045,273
3,060,482
308: 3,059,266
310: 3,030,650
3,056,993
3,064,298
3,066,345
311: 3,015,121
3,044,099
3,054,129
312: 3,016,559
3,018,503
3,036,325
3,038,191
3,045,274
3,051,978
3,055,038
3,060,483
3,064,299
314: 3,023,447
3,050,767
316: 3,040,361
317: 3,068,507
3,069,715
320: 3,018,504
3,020,576
3,029,461
3,040,362
3,040,363
3,060,484
321: 3,048,876
3,056,994
322: 3,064,300
323: 3,059,577
3,029,462
3,056,995
324: 3,049,744
325: 3,040,364
327: 3,015,122
3,015,123
3,017,654
3,063,082
328: 3,060,485
3,061,868
331: 3,039,129
340: 3,052,908
3,054,130
353: 3,029,463
3,036,326
3,055,039
3,065,489
354: 3,022,533
3,040,365
3,040,366
359: 3,021,550
3,031,710
3,032,799
3,065,490
369: 3,045,275
3,046,592
371: 3,032,800
3,040,367
3,069,716
373: 3,040,368
377: 3,030,130
382: 3,054,131
387: 3,044,100
396: 3,065,491
400: 3,022,534
417: 3,048,877
503: 3,018,505
3,019,470
3,037,235
3,052,909
505: 3,047,901
506: 3,051,979
3,064,301
3,065,492
507: 3,039,131
510: 3,016,560
3,056,996
511: 3,034,168
3,056,997
512: 3,048,878
3,056,998
3,063,083
3,066,346
514: 3,031,712
515: 3,038,192
3,065,493
516: 3,047,902
517: 3,020,578
521.5: 3,030,651
522: 3,036,327
524: 3,024,487
525: 3,055,040
528: 3,031,711
530: 3,067,449
531: 3,052,910
532: 3,067,450
533: 3,052,911
534: 3,040,369
535: 3,054,132
537: 3,035,299
539: 3,060,486
3,061,869
541: 3,027,591
3,029,464
3,056,999
543: 3,015,836
544: 3,015,837
546: 3,069,717
553: 3,020,579
554: 3,049,745
555: 3,032,801
560: 3,019,471
563: 3,032,802
3,035,300
3,044,101
3,048,879
3,050,768
3,051,980
3,057,000
3,058,144
565: 3,016,561
3,046,593
3,054,133
566: 3,023,448
3,038,193
3,054,134
567: 3,063,084
568: 3,034,169
3,066,347
570: 3,023,449
571: 3,039,132
3,048,880
3,058,145
3,063,085
3,069,718
572: 3,036,328
3,048,881
3,055,041
573: 3,030,652
575: 3,061,746
578: 3,032,803
600: 3,041,655

Class 16

1: 3,060,487
2: 3,016,562
3,057,001
16: 3,047,903
3,064,302
18: 3,054,135
3,060,488
20: 3,018,506
21: 3,015,838
24: 3,057,002
3,067,451
30: 3,069,719
31: 3,040,370
3,040,371
33: 3,026,557
35: 3,052,912
3,055,042
36: 3,032,804
3,051,981
37: 3,022,535
42: 3,021,551
3,025,557
3,059,267
3,065,494
43: 3,015,124
3,038,194
3,065,495
44: 3,026,558
3,032,805
3,041,656
3,044,102
48: 3,047,904
49: 3,028,619
3,038,195
3,044,103
3,051,982
3,063,086
51: 3,025,558
52: 3,028,620
3,057,003
3,057,004
3,064,303
55: 3,030,769
57: 3,066,348
61: 3,020,580
62: 3,040,372
3,042,957
3,054,136
3,059,268
65: 3,039,133
66: 3,020,581
3,032,806
3,038,196
3,059,269
72: 3,039,134
75: 3,022,536
78: 3,018,507
79: 3,045,276
80: 3,036,329
3,036,330
82: 3,015,125
3,017,655
3,030,653
3,051,983
84: 3,042,958
85: 3,025,559
86: 3,042,959
86: 3,050,770
3,055,043
87.4: 3,021,552
87.6: 3,023,450
3,025,560
3,044,104
3,058,147
90: 3,017,656
91: 3,030,654
93: 3,040,373
3,052,913
3,064,304
94: 3,029,465
3,060,489
95: 3,046,594
3,060,490
97: 3,032,807
3,060,491
105: Re.25,246
3,020,582
3,022,537
3,041,657
3,042,960
3,057,005
3,068,882
3,069,720
114: 3,017,657
121: 3,017,658
3,061,869
125: 3,044,105
128: 3,042,961
3,063,087
128.1: 3,044,088
3,054,137
3,069,720
129: 3,019,472
135: 3,049,747
3,055,696
136: 3,015,839
138: 3,028,621
139: 3,016,563
140: 3,037,236
142: 3,065,497
144: 3,048,883
146: 3,017,659
3,021,553
3,046,595
3,058,148
147: 3,048,884
3,018,509
3,030,656
3,064,305
149: 3,067,452
150: 3,058,149
151: 3,030,655
3,036,331
154: 3,059,270
158: 3,042,962
159: 3,031,713
163: 3,066,349
164: 3,038,196
166: 3,065,498
167: 3,021,554
168: 3,014,245
3,068,508
171: 3,049,748
172: 3,015,840
3,060,492
175: 3,021,555
177: 3,023,451
3,059,271
3,061,870
178: 3,027,592
179: 3,044,106
3,063,088
180: 3,061,871
3,067,453
182: 3,026,559
185: 3,021,556
186: 3,044,107
3,063,089
190: 3,019,473
197: 3,026,560
3,034,170
3,047,905
3,055,044
3,064,306
200: 3,024,489

Class 17

1: 3,023,452
3,026,561
3,027,593
3,039,135
3,051,984
3,055,045
3,055,046
3,058,149
3,067,454
2: 3,018,510
3,020,583
3,024,490
3,031,714
3,040,374
5: 3,016,564

Class 17—Con.

7: 3,019,474
3,048,884
3,052,914
8: 3,015,841
3,016,593
3,046,596
9: 3,037,237
11: 3,038,197
3,056,161
11.1: 3,044,108
3,068,509
11.2: 3,041,658
12: 3,017,660
17: 3,021,557
21: 3,024,491
3,046,597
24: 3,031,715
25: 3,066,350
32: 3,026,562
3,039,136
3,045,277
3,060,493
3,060,494
3,061,872
33: 3,060,495
34: 3,042,963
3,059,272
35: 3,034,171
3,036,332
3,042,964
40: 3,052,915
41: 3,050,771
43: 3,037,238
3,049,749
44.1: 3,023,453
3,044,109
44.3: 3,046,598
45: 3,017,661
3,027,594
3,031,716
3,054,138
3,057,006

Class 18

1: 3,017,662
3,019,475
3,028,622
3,029,406
3,030,657
3,035,301
3,035,333
3,038,198
3,040,375
3,042,965
3,046,599
3,049,750
3,050,772
3,055,047
3,055,048
3,056,162
3,057,007
3,059,273
3,060,496
3,063,090
3,069,721
2: 3,018,511
3,020,584
3,030,658
3,040,376
3,041,659
3,042,966
3,051,985
3,057,008
3,059,274
3,060,497
3,063,091
3,064,307
3,065,499
3,068,510
2.4: 3,016,566
3,037,239
2.5: 3,015,127
3,015,842
3,017,663
3,017,664
3,019,476
3,019,477
3,020,585
3,020,586
3,021,558
3,022,538
3,023,454
3,028,623
3,030,659
3,044,110
3,045,278
3,049,751
2.6: 3,015,128
3,026,563
3,031,717
3,045,279
3,048,885
2.6: 3,048,886
3,054,139
3,054,140
3,055,049
3,060,498
2.7: 3,048,887
4: 3,015,512
3,019,478
3,019,479
3,020,587
3,039,137
3,039,138
3,044,111
3,058,150
3,059,275
3,060,499
3,065,500
3,066,351
3,067,455
3,067,456
5: Re.25,290
3,015,843
3,019,480
3,019,481
3,021,559
3,025,561
3,025,562
3,028,624
3,028,625
3,029,467
3,029,468
3,031,718
3,032,809
3,032,810
3,034,172
3,035,302
3,038,199
3,042,967
3,044,112
3,044,113
3,046,600
3,048,888
3,048,889
3,048,890
3,048,891
3,049,752
3,050,773
5.6: 3,061,873
6: 3,016,567
3,024,492
3,032,811
3,032,812
3,039,140
3,041,660
3,041,661
3,046,601
3,054,141
3,057,457
8: 3,016,568
3,018,514
3,022,539
3,024,493
3,025,563
3,028,626
3,028,627
3,032,813
3,036,334
3,037,240
3,037,241
3,039,141
3,040,377
3,041,662
3,041,663
3,041,664
3,047,906
3,049,753
3,049,754
3,049,755
3,050,774
3,051,986
3,055,050
3,055,051
3,055,052
3,056,163
3,057,009
3,060,500
3,060,501
3,061,874
3,063,093
3,063,094
3,067,458
3,067,459
3,067,460
3,067,461
9: 3,017,665
3,017,666
3,034,173
3,037,242
3,060,502
10: 3,027,595
3,060,503
3,069,723
12: 3,015,129
3,015,844
3,018,515
3,019,483
3,019,484
3,023,455
3,023,456
3,025,564
3,025,565
3,026,564
3,030,660
3,032,814
3,035,303
3,035,304
3,035,305
3,035,306
3,036,335
3,039,142
3,039,143
3,045,280
3,046,602
3,046,603
3,047,907
3,051,987
3,051,988
3,055,053
3,057,010
3,059,276
3,060,504
3,060,505
3,063,095
3,065,502
3,067,462
3,067,463
3,067,464
3,068,513
3,068,514
3,068,515
13: 3,024,494
3,041,665
3,045,281
3,048,892
3,054,142
3,063,516
14: 3,018,516
3,020,588
3,026,565
3,038,201
3,038,202
3,044,114
3,051,989
3,051,990
3,054,143
3,059,277
3,061,875
3,061,876
3,068,517
3,069,724
15: 2,021,560
3,032,815
3,032,816
3,032,817
3,042,968
3,044,115
3,050,775
3,050,776
3,052,917
3,056,164
3,058,151
16: 3,049,756
3,050,777
3,052,918
3,052,919
16.5: 3,020,589
3,060,506
3,061,877
3,067,465
17: 3,016,569
3,016,570
3,018,517
3,029,469
3,037,243
3,040,378
3,041,666
3,041,667
3,045,282
3,048,893
3,050,778
3,052,920
3,056,165
3,058,152
3,061,878
3,063,096
3,065,503
3,067,466
18: 3,015,130
3,015,845
3,023,457
3,031,719
3,038,203
3,038,204
3,039,144
3,044,116
3,052,921
19: 3,016,571
3,018,518
3,020,590
3,024,495
3,024,496
3,024,497
3,025,566
3,026,566
3,027,596
3,028,628
3,032,818
3,035,307
3,036,336
3,040,379
3,040,380
3,041,668
3,041,669
3,042,969
3,052,922
3,054,144
3,058,153
3,058,154
3,060,507
3,064,309
20: 3,016,572
3,029,470
3,044,117
3,052,923
3,066,353
3,069,725
24: 3,022,540
26: 3,015,846
3,016,573
3,027,597
3,037,244
3,040,381
3,041,670
3,041,671
3,044,118
3,055,054
3,068,518
27: 3,015,847
3,034,174
3,065,504
30: 3,015,131
3,015,848
3,015,849
3,016,574
3,020,591
3,020,592
3,020,593
3,021,561
3,023,458
3,024,498
3,025,567
3,025,568
3,026,567
3,028,629
3,029,471
3,029,472
3,032,819
3,034,175
3,036,337
3,037,245
3,039,145
3,040,382
3,044,119
3,045,283
3,049,757
3,050,779
3,055,055
3,055,056
3,061,879
3,063,519
3,068,520
3,068,521
33: 3,058,155
34: 3,030,661
3,030,662
3,045,284
3,050,780
3,059,278
3,059,279
3,061,880
3,067,467
34.1: 3,064,309
36: 3,018,519
3,027,598
3,034,176
3,046,604
3,048,894
3,050,781
3,051,991
3,058,156
3,063,097
36: 3,068,522
38: 3,025,569
3,039,146
3,058,157
3,060,508
39: 3,037,246
3,056,166
3,068,523
40: 3,034,177
42: 3,017,667
3,020,594
3,020,595
3,025,570
3,028,630
3,044,120
3,044,121
3,049,758
3,049,759
3,054,145
3,056,167
3,057,011
3,058,158
3,060,509
3,063,098
3,064,310
46: 3,068,524
47: 3,041,131
3,053,610
47.2: 3,017,668
3,021,562
3,025,571
3,026,568
3,036,338
3,058,159
3,059,280
3,060,510
47.3: 3,021,563
3,021,564
3,041,672
3,042,970
47.5: 3,015,850
3,021,565
3,021,566
3,030,663
3,030,664
3,031,720
3,032,820
3,032,821
3,036,339
3,038,205
3,038,206
3,042,971
3,046,605
3,046,606
3,047,908
3,050,782
3,057,012
3,058,160
3,060,511
3,061,881
3,061,882
3,061,883
3,064,311
3,066,354
3,067,468
48: 3,015,132
3,015,851
3,015,852
3,015,853
3,016,575
3,016,576
3,016,577
3,018,520
3,019,485
3,019,486
3,022,541
3,029,473
3,030,665
3,038,207
3,038,208
3,042,972
3,042,973
3,044,122
3,045,285
3,045,286
3,046,607
3,046,608
3,046,609
3,047,909
3,052,924
3,054,146
3,055,057
3,056,168
3,058,161
3,058,162
3,058,163
3,060,512
3,060,513
3,060,514
3,060,515
3,061,884
3,061,885
3,061,886
3,063,099
48: 3,066,355
3,068,525
3,068,526
3,068,527
3,068,528
3,068,529
3,068,530
3,069,726
48.3: 3,023,459
3,060,516
48.8: 3,058,164
53: 3,015,854
3,017,669
3,026,569
3,039,539
3,040,383
3,041,673
2,042,974
3,051,992
54: 3,016,283
3,017,238
3,018,157
3,018,158
3,019,077
3,019,078
3,022,132
3,023,075
3,024,081
3,025,130
3,026,169
3,026,170
3,026,171
3,027,224
3,027,225
3,028,214
3,029,124
3,030,173
3,031,255
3,031,256
3,031,257
3,032,384
3,032,385
3,034,852
3,035,884
3,036,878
3,038,778
3,038,779
3,038,780
3,041,132
3,042,481
3,042,482
3,046,082
3,046,083
3,046,084
3,046,085
3,047,356
3,048,465
3,048,466
3,048,467
3,049,397
3,049,398
3,051,545
3,052,512
3,053,611
3,054,652
3,055,728
3,055,729
3,055,730
3,059,991
3,061,401
3,061,402
3,062,611
3,063,786
3,063,787
3,063,788
3,063,789
3,065,042
3,066,007
3,066,008
3,066,999
3,067,000
3,068,061
3,068,062
3,068,063
54.7: 3,035,308
55: 3,015,855
3,015,856
3,019,487
3,021,567
3,021,568
3,022,542
3,023,460
3,023,461
3,025,572
3,026,570
3,027,599
3,030,666
3,032,822
3,032,823
3,036,340
3,037,247
3,045,287
3,045,288
3,049,760
55: 3,051,993
3,051,994
3,051,995
3,052,925
3,054,147
3,055,058
3,057,013
3,057,014
3,058,165
3,058,166
3,059,281
3,060,517
3,064,312
3,066,356
3,067,469
3,067,470
3,069,727
56: Re.25,302
3,015,857
3,019,488
3,020,596
3,021,569
3,021,570
3,021,571
3,027,600
3,032,824
3,032,825
3,034,148
3,054,149
3,054,150
3,057,015
3,068,531
57: 3,015,858
3,020,597
3,022,543
3,026,571
3,027,601
3,027,602
3,029,474
3,030,667
3,031,721
3,038,209
3,039,147
3,045,289
3,048,895
3,049,761
3,050,783
3,050,784
3,056,169
3,056,170
3,064,313
3,069,728
58: 3,021,572
3,026,572
3,035,309
3,038,210
3,046,610
3,059,282
58.3: 3,029,475
3,030,668
3,036,341
3,040,384
3,044,124
3,048,896
59: 3,015,133
3,015,356
3,015,859
3,016,578
3,016,579
3,016,580
3,017,670
3,019,489
3,020,573
3,026,574
3,026,575
3,026,576
3,028,631
3,028,476
3,030,623
3,031,722
3,031,723
3,032,826
3,032,827
3,032,828
3,035,310
3,036,342
3,038,211
3,039,148
3,040,385
3,040,386
3,042,975
3,044,125
3,044,126
3,044,127
3,045,290
3,047,910
3,049,762
3,050,785
3,050,786
3,056,787
3,052,926
3,052,927
3,056,171
3,057,016

59: 3,057,017
3,057,018
3,059,283
3,061,887
3,061,888
3,063,100
3,064,314
3,068,532
3,068,533
59.3: 3,022,544
3,023,402
3,034,178
60: 3,021,573
61: 3,041,674

Class 19

.35: 3,066,357
2: 3,029,477
7: 3,025,573
28: 3,050,788
33: 3,064,315
35: 3,046,611
65: 3,016,581
3,020,598
3,032,329
3,057,019
66: 3,022,545
3,028,632
3,028,633
3,028,654
3,058,167
81: 3,040,387
90: 3,042,976
3,061,889
93: 3,049,763
95: 3,038,212
96: 3,047,911
3,056,172
99: 3,032,831
3,051,996
104: 3,036,343
105: 3,034,179
3,064,316
106: 3,061,890
107: 3,039,150
113: 3,057,020
114: 3,058,168
123: 3,055,059
129: 3,028,635
3,057,021
135: 3,015,860
3,021,574
144.5: 3,036,344
3,038,214
3,042,977
3,058,169
3,065,535
145.5: 3,024,500
147: 3,020,599
150: 2,018,521
3,059,285
151: 3,017,671
155: 3,034,180
3,041,676
3,057,022
3,066,358
3,066,359
156: 3,016,582
3,032,836
3,037,248
3,051,998
3,052,928
3,056,173
157: 3,020,600
159: 3,028,637
3,032,832
3,035,311
3,060,158
3,061,893
3,069,729
160: 3,019,490
161: 3,038,215
202: 3,027,604
3,029,478
3,032,830
3,035,312
203: 3,024,499
3,039,149
3,046,612
3,069,730
204: 3,034,181
205: 3,039,151
225: 3,041,675
227: 3,066,360
231: 3,061,891
243: 3,063,101
3,067,471
250: 3,028,636
3,031,724
3,038,213
3,045,231
251: 3,029,479
252: 3,050,789
253: 3,055,060
255: 3,056,174
258: 3,051,997
261: 3,036,345
263: 3,059,284
3,061,892
267: 3,041,677
3,056,175
282: 3,037,249
287: 3,063,102
288: 3,033,313
3,038,216
293: 3,058,170
294: 3,035,314
295: 3,044,128

Class 20

1: 3,016,583
3,019,491
3,039,152
3,046,613
3,048,897
3,054,151
3,055,061
3,063,103
3,068,534
1.11: 3,042,978
1.12: 3,060,519
1.123: 3,021,575
1.126: 3,045,292
3,052,929
3,069,732
3,069,733
1.13: 3,060,520
2: 3,020,601
3,025,463
3,044,129
3,063,104
3,069,224
3.5: 3,046,614
3,046,615
4: 3,017,672
3,020,602
3,026,577
3,027,605
3,030,669
3,030,670
3,032,833
3,045,293
3,058,171
3,058,172
3,059,286
3,060,521
3,061,894
3,064,317
3,068,535
6: 3,017,673
3,040,388
3,065,506
8: 3,026,578
3,031,725
3,045,294
9: 3,018,522
3,049,764
11: 3,021,576
3,023,464
3,028,638
3,034,182
3,040,389
3,040,390
3,041,678
3,042,979
3,044,130
3,046,616
3,060,522
15: 3,046,617
16: 3,019,492
3,024,501
3,025,574
3,032,834
3,032,835
3,032,837
3,035,315
3,047,912
3,048,898
3,048,899
3,051,999
3,059,287
3,060,523
19: 3,018,523
3,027,606
3,028,639
3,039,153
3,040,391
3,049,765
3,052,000
3,052,930
3,058,173
3,058,174
3,060,524
3,069,731
22: 3,059,288
23: 3,017,674
3,020,603
3,039,154
3,040,392
3,045,295
3,056,176
3,059,289
3,059,290
24: 3,064,318
35: 3,041,679
3,064,319
3,068,536
36: 3,060,525
40: 3,018,524
3,021,577
3,048,900
40.5: 3,056,177
42: 3,020,604
3,024,502
3,026,579
3,030,671
3,036,346
3,041,680
3,044,131
3,045,296
3,050,790
3,052,931
3,055,062
3,055,063
3,058,175
52: 3,015,134
3,018,525
3,025,575
3,026,580
3,026,581
3,028,640
3,030,672
3,031,726
3,047,913
3,054,152
3,055,064
3,060,526
3,065,507
52.2: 3,021,578
3,022,546
3,022,547
52.4: 3,037,250
3,046,618
3,058,176
53: 3,022,548
3,032,838
3,034,183
3,035,316
3,052,932
3,060,527
55: 3,023,465
3,024,503
3,048,901
3,057,023
56: 3,020,605
56.4: 3,061,895
3,064,320
56.5: 3,022,549
3,026,582
3,027,607
3,027,608
3,030,673
3,045,297
3,054,153
57.5: 3,015,135
3,015,861
3,016,584
3,016,585
62: 3,046,619
3,047,914
3,059,291
3,060,528
3,060,529
63: 3,039,155
64: 3,032,839
3,061,896
67: 3,019,493
3,054,154
68: 3,030,674
3,039,156
69: 3,020,606
3,022,550
3,023,466
3,024,504
3,025,576
3,029,480
3,029,481
3,032,840
3,037,251
3,038,217
3,038,218
3,040,393
3,041,681
3,041,682
3,042,980
3,048,902
69: 3,050,791
3,059,292
3,063,105
74: 3,028,641
3,060,530
78.6: 3,015,136
89: 3,055,065
92: Re.25,270
3,016,586
3,018,526
3,025,577
3,027,609
3,031,727
3,046,620
3,057,024
3,059,293
3,065,508
92.4: 3,034,184
3,064,321
94: 3,036,347
95: 3,034,185
99: 3,041,683
100: 3,027,610

Class 21

2: 3,016,284
3,020,120
3,055,731
3,067,001
2.5: 3,020,121
3,037,837
3,039,843
3,062,612
2.7: 3,020,122
3,022,133
3,029,125
3,029,126
3,023,127
3,032,386
3,035,885
3,036,305
3,036,879
3,039,844
3,050,360
3,063,790
3,069,225
7: 3,047,357
53: 3,049,399
3,065,043
54: 3,069,226
56: 3,058,799
57: 3,035,886
58: 3,017,239
3,068,064
60.5: 3,035,887
3,036,880
3,070,419
74: 3,055,066
77: 3,042,981
78: 3,069,734
79: 3,058,177
87: 3,019,494
90: 3,066,361
91: 3,069,735
3,069,736
94: 3,064,322
3,066,362
97: 3,065,509
103: 3,064,323
116: 3,058,178
121: 3,041,684

Class 22

3: 3,052,933
4: 3,026,583
5.5: 3,061,897
9: 3,026,584
3,061,898
10: 3,023,467
3,059,294
3,066,363
3,067,472
20: 3,023,482
3,061,899
3,068,537
31: 3,017,675
3,022,551
3,039,157
3,063,106
36: 3,024,505
3,030,675
3,040,394
3,045,298
37: 3,035,317
3,040,395
42: 3,030,676
3,041,685
3,063,107
45: 3,025,578
57: 3,015,137
57.2: 3,015,862
3,017,676
3,022,552
3,025,579
3,045,299
3,047,915
3,050,792
3,055,067
3,059,295
3,066,364
57.3: 3,040,396
3,040,397
57.4: 3,036,348
3,041,686
57.5: 3,038,219
58: 3,049,766
65: 3,040,398
3,052,001
3,068,538
68: 3,019,495
3,020,607
3,029,483
3,038,220
3,040,399
3,046,621
3,046,622
3,049,767
3,058,179
3,063,108
69: 3,032,841
70: 3,056,178
73: 3,019,496
3,065,510
76: 3,052,934
79: 3,015,863
3,041,687
3,050,793
3,050,794
3,056,179
3,057,025
3,058,180
3,063,109
82: 3,047,916
85: 3,027,611
3,028,642
3,040,400
3,044,132
86: 3,063,110
87: 3,038,221
89: Re.25,282
3,029,484
3,046,623
3,046,624
3,048,903
3,050,795
93: 3,049,768
3,068,539
95: 3,038,222
3,045,300
3,052,935
3,060,531
3,064,324
110: 3,015,864
3,022,553
3,030,677
3,048,904
112: 3,060,532
113: 3,024,506
116: 3,020,608
3,021,579
3,022,554
3,023,468
134: 3,015,138
139: 3,027,612
3,058,181
140: 3,016,587
145: 3,049,769
147: 3,015,139
3,018,527
3,026,585
3,030,679
3,039,158
3,044,133
3,045,625
3,058,182
3,060,533
3,063,111
153: 3,063,112
158: 3,063,113
160: 3,029,485
162: 3,036,349
165: 3,028,643
3,066,365
171: 3,037,252
174: 3,045,301
190: 3,030,678
192: 3,047,917
3,060,534
193: 3,020,609
3,022,555
3,022,556
3,026,586
3,041,688
193: 3,048,905
3,050,796
3,050,797
3,057,026
3,059,296
3,059,297
3,061,900
194: 3,017,677
3,032,842
195: 3,018,528
3,042,982
3,063,511
196: 3,019,497
3,041,689
200: 3,035,318
200.1: 3,034,186
3,050,798
3,052,936
202: 3,028,644
203: 3,016,588
3,020,610
209: 3,024,507
3,054,155
212: 3,067,473
216: 3,024,508
3,045,302
216.5: 3,041,690

Class 23

1: 3,019,079
3,025,131
3,033,641
3,035,888
3,041,133
3,043,651
3,050,793
3,050,794
3,056,179
3,057,025
3,058,180
3,063,109
3,065,511
3,068,540
3,068,541
3,069,225
3,069,226
3,069,227
3,069,228
3,025,133
3,026,172
3,031,258
3,032,387
3,033,642
3,034,853
3,035,889
3,039,845
3,041,134
3,042,483
3,044,844
3,053,612
3,053,613
3,054,653
3,055,732
3,056,646
3,058,800
3,061,403
3,067,002
3,068,065
3: 3,021,189
3,041,135
4: 3,033,643
14: 3,017,240
3,018,160
3,021,190
3,023,077
3,026,173
3,026,174
3,029,128
3,030,174
3,031,259
3,031,260
3,033,644
3,035,890
3,035,891
3,035,892
3,037,838
3,042,484
3,042,485
3,044,845
3,044,846
3,046,086
3,047,358
3,050,361
3,051,546
3,053,614
3,059,992
3,061,404
3,061,405
3,061,406
3,063,791
3,066,009
14.5: 3,018,529
3,027,210
3,029,129
3,029,130
14.5: 3,030,175
3,030,176
3,031,261
3,033,645
3,034,854
3,034,855
3,034,856
3,035,894
3,035,895
3,036,881
3,037,839
3,038,223
3,038,224
3,038,225
3,039,846
3,039,847
3,040,401
3,040,402
3,041,136
3,042,486
3,043,653
3,044,847
3,044,848
3,044,849
3,046,087
3,046,088
3,046,089
3,047,359
3,047,360
3,049,400
3,049,401
3,049,402
3,052,513
3,052,514
3,052,515
3,056,647
3,063,792
3,063,793
3,063,794
3,065,044
3,065,045
3,067,003
3,067,004
3,069,227
3,069,228
3,069,229
3,030,180
18: 3,029,132
3,061,407
3,065,046
19: 3,047,361
3,051,547
21: 3,038,781
22: 3,049,403
3,054,654
3,065,047
23: 3,032,388
3,033,646
3,037,841
3,054,655
3,058,801
3,062,613
25: 3,017,242
27: 3,024,082
3,024,083
31: 3,032,389
33: 3,033,647
35: 3,018,161
38: 3,051,548
46: 3,027,226
48: 3,047,362
3,053,615
3,061,408
50: 3,015,538
3,023,079
3,023,080
3,023,081
3,026,175
3,043,654
3,048,469
3,049,404
3,053,616
3,056,177
3,053,618
3,053,619
3,058,802
3,065,048
3,070,421
51: 3,024,084
3,032,390
3,034,857
3,035,896
3,035,516
3,063,795
3,063,796
3,065,049
3,070,422
56: 3,046,091
59: 3,018,162
3,018,163
3,024,085
3,025,134
3,032,391
3,032,392
3,057,677
3,069,229
60: 3,041,137

Class 23—Con.

63: 3,017,243
3,028,215
3,051,409
64: 3,036,882
66: 3,029,133
75: 3,020,123
3,036,883
3,047,363
77: 3,021,191
3,056,648
78: 3,017,244
3,021,192
3,039,848
3,051,549
3,052,517
79: 3,015,539
85: 3,020,124
3,038,782
3,057,678
3,063,797
86: 3,030,177
87: 3,025,135
3,032,393
3,041,138
3,043,655
3,050,362
3,053,620
3,057,679
3,061,410
3,062,615
3,063,798
3,066,010
3,067,005
3,068,066
88: 3,021,193
3,021,194
3,023,082
3,024,086
3,027,227
3,031,262
3,049,405
3,055,733
3,056,649
3,056,650
3,057,680
3,057,681
3,058,803
3,061,411
3,063,799
3,065,050
3,065,051
89: 3,017,245
3,036,884
3,049,406
3,055,734
3,063,800
91: 3,056,651
3,067,006
93: 3,052,518
97: 3,030,178
98: 3,053,621
100: 3,026,176
3,037,842
3,038,783
3,048,470
102: 3,062,616
3,062,617
3,062,618
3,062,619
3,065,052
3,069,230
103: 3,018,164
3,030,179
3,034,858
105: 3,027,228
3,028,216
3,067,007
3,070,423
106: 3,018,165
3,030,180
3,031,263
3,046,092
3,048,471
3,054,656
3,056,652
107: 3,023,083
3,028,217
3,035,897
3,035,898
3,042,487
3,044,850
3,044,851
3,052,519
3,053,622
3,053,623
3,055,735
3,062,620
3,063,801
3,063,802
108: 3,053,624
3,066,656
109: 3,027,229
3,058,804
109: 3,065,053
3,068,067
110: 3,020,125
3,021,195
3,027,230
3,032,394
3,033,648
3,034,859
3,044,852
3,051,550
3,056,653
112: 3,032,395
3,037,843
3,059,993
3,065,054
113: 3,030,181
3,054,657
3,056,654
3,058,805
114: 3,036,885
3,041,139
3,042,488
3,057,682
3,070,424
116: 3,054,658
117: 3,053,625
3,066,011
3,069,231
118: 3,016,286
119: 3,035,899
121: 3,058,806
122: 3,033,649
125: 3,025,136
126: 3,018,166
134: 3,058,807
3,061,412
140: 3,024,087
3,043,656
3,067,008
3,069,232
141: 3,028,218
3,039,859
3,055,736
3,057,683
142: 3,026,177
3,027,231
3,031,657
143: 3,019,080
3,024,088
3,027,232
3,027,233
3,027,234
3,038,784
3,049,407
3,055,737
3,066,012
145: 3,065,055
149: 3,026,178
3,031,264
150: 3,037,844
151: 3,020,126
3,031,265
3,032,396
3,049,408
3,055,738
3,056,655
3,063,803
3,065,056
3,065,057
152: 3,036,886
3,056,656
3,058,808
153: 3,017,246
3,029,134
3,039,850
154: 3,037,845
3,067,009
157: 3,019,081
3,044,853
3,050,363
3,055,739
3,069,233
3,070,425
162: 3,027,235
3,063,804
165: 3,015,540
3,017,247
3,018,167
3,022,136
3,027,236
3,034,860
3,036,887
3,044,854
3,044,855
166: 3,016,287
3,043,658
3,051,551
167: 3,042,489
173: 3,059,994
174: 3,042,490
3,065,058
177: 3,048,472
3,048,473
3,053,626
3,059,995
178: 3,047,364
179: 3,047,365
181: 3,030,182
3,035,900
182: 3,015,541
3,024,089
3,041,140
3,043,659
3,043,660
3,050,364
3,053,627
3,059,996
3,059,997
3,070,426
183: 3,025,137
3,057,684
3,059,998
184: 3,019,082
3,023,084
3,042,491
3,043,661
3,044,856
3,063,805
186: 3,018,168
3,031,266
3,059,999
188: 3,044,857
190: 3,015,542
3,028,219
3,034,861
3,038,785
3,063,806
191: 3,032,397
3,036,888
3,058,809
192: 3,032,398
196: 3,024,090
3,054,659
3,056,657
198: 3,031,267
199: 3,027,237
3,054,660
3,058,810
3,069,234
200: 3,036,889
3,050,365
201: 3,033,650
3,051,552
3,060,000
202: 3,022,137
3,030,183
3,042,492
3,057,685
3,060,001
3,060,002
3,062,621
3,063,807
3,067,010
3,068,068
3,069,235
203: 3,026,179
3,028,220
3,034,862
3,043,662
3,052,520
3,053,628
3,053,629
3,063,808
3,067,011
204: 3,016,288
3,017,248
3,018,169
3,019,083
3,019,084
3,019,085
3,019,086
3,019,087
3,019,088
3,020,127
3,021,196
3,021,197
3,022,138
3,023,139
3,023,085
3,024,091
3,028,221
3,028,222
3,030,184
3,031,268
3,032,399
3,036,890
3,036,891
3,037,846
3,041,141
3,041,142
3,043,663
3,043,664
3,046,093
3,048,474
3,050,366
3,052,521
3,053,630
3,053,631
3,056,658
204: 3,057,686
3,058,811
3,063,809
3,063,810
3,066,013
3,068,069
3,069,236
3,069,237
3,069,238
205: 3,016,289
3,019,089
3,025,138
3,025,139
3,030,185
3,032,400
3,043,665
3,046,094
3,050,367
3,051,553
3,054,661
3,055,740
3,067,012
3,069,239
206: 3,023,086
3,034,863
207: Re.25,114
3,016,290
3,026,180
3,030,186
3,038,786
3,041,143
3,043,666
3,050,368
3,062,622
207.5: 3,037,847
3,053,632
3,053,633
3,053,634
208: 3,044,858
3,053,635
209: 3,052,522
3,053,636
209.1: 3,031,269
3,054,662
3,057,687
209.2: 3,024,092
209.4: 3,015,543
3,017,249
3,030,187
3,030,188
3,033,651
3,039,851
3,044,859
3,046,095
3,046,096
3,057,688
3,060,003
209.7: 3,039,852
209.8: 3,039,853
3,051,554
209.9: 3,035,901
212: 3,027,238
3,028,223
214: 3,017,250
216: 3,050,369
218: 3,033,652
221: 3,061,413
223: 3,025,140
3,026,181
3,033,653
3,039,854
3,047,366
3,052,523
3,053,637
3,056,659
3,056,660
3,068,070
223.5: 3,019,090
3,017,251
3,020,128
3,020,129
3,021,198
3,022,139
3,029,135
3,030,189
3,031,270
3,036,892
3,041,144
3,041,145
3,042,493
3,042,494
3,043,667
3,051,555
3,053,638
3,055,741
3,057,690
3,057,691
3,058,812
3,063,811
3,069,240
3,069,241
224: 3,028,223
3,034,864
225: 3,034,865
3,039,855
225: 3,065,059
226: 3,023,088
3,050,370
230: 3,015,544
3,019,090
3,020,130
3,021,199
3,022,140
3,026,182
3,027,239
3,027,240
3,030,190
3,032,401
3,033,654
3,036,893
3,036,894
3,042,495
3,044,860
3,047,367
3,048,475
3,049,409
3,049,410
3,050,371
3,050,372
3,055,742
3,062,623
3,062,624
3,063,812
3,068,071
3,068,072
232: 3,025,141
3,025,142
3,028,224
3,030,191
3,036,895
3,039,856
3,043,668
3,049,411
3,057,692
3,057,693
3,061,414
3,061,073
252: 3,026,183
3,031,271
3,035,902
3,047,368
3,047,369
3,047,370
3,052,524
3,057,694
3,063,813
3,067,013
3,068,074
3,068,075
253: 3,016,292
3,019,091
3,028,225
3,030,192
3,041,146
3,042,496
3,043,669
3,045,097
3,050,373
3,055,743
3,058,813
3,058,814
3,065,060
3,067,014
3,067,015
254: 3,022,141
3,027,241
3,031,272
3,033,655
3,046,098
255: 3,021,200
3,026,184
3,032,402
3,035,903
3,049,412
3,058,815
256: 3,034,866
3,041,147
3,062,625
259: 3,033,656
3,038,787
3,067,016
259.1: 3,022,142
3,041,148
3,054,663
3,055,744
3,068,076
259.2: 3,023,089
259.5: 3,024,093
3,026,185
3,038,788
3,051,556
3,057,695
3,060,004
260: 3,017,252
3,018,170
3,039,857
3,042,497
3,057,696
3,057,697
3,069,242
260: 3,069,243
3,070,427
262: 3,057,698
263: 3,051,557
3,057,699
266: 3,034,867
267: 3,034,868
3,058,816
269: 3,062,626
270.5: Re.25,186
3,015,545
3,017,253
3,032,403
3,062,627
272.5: 3,021,201
272.6: 3,036,896
272.7: 3,052,525
273: 3,020,131
3,023,090
3,038,789
3,051,558
3,053,639
3,068,077
277: 3,024,094
3,025,143
3,042,498
3,042,499
3,044,861
3,047,371
3,050,374
3,056,467
3,060,005
3,061,415
3,063,814
3,067,017
3,069,244
281: 3,024,790
3,052,526
3,066,014
282: 3,051,559
283: 3,057,700
3,065,061
284: 3,017,254
3,025,144
3,028,226
3,033,657
3,037,848
3,039,858
3,042,500
3,048,476
3,051,560
3,053,640
3,057,701
3,058,817
3,068,078
285: 3,027,242
3,027,243
3,028,227
3,031,273
3,039,859
3,043,670
3,046,099
3,049,413
3,056,661
3,057,702
3,063,815
3,066,015
286: 3,021,202
287: 3,066,016
288: 3,017,255
3,017,256
3,025,145
3,026,186
3,027,244
3,033,658
3,034,869
3,036,897
3,041,149
3,050,375
3,050,376
3,051,561
3,052,527
3,053,641
3,053,642
3,053,643
3,054,664
3,055,745
3,056,662
3,056,663
3,061,416
3,066,017
3,068,079
289: 3,031,274
3,041,150
3,041,151
3,050,377
3,060,006
290: 3,030,193
3,041,152
3,056,664
292: 3,026,187
3,061,417
293: 3,022,143
3,034,870
294: 3,019,092
294: 3,022,144
3,042,501
3,044,862
3,053,644
295: 3,033,659
296: 3,027,245
3,063,816
300: 3,037,849
3,048,477
301: 3,020,132
3,023,091
3,025,146
3,026,188
3,030,194
3,031,275
3,033,660
3,034,871
3,036,898
3,046,100
3,057,703
3,065,062
305: 3,043,671
308: 3,042,502
309: 3,022,145
310: 3,042,503
312: 3,063,817
313: 3,048,478
314: 3,018,171
3,019,093
3,042,504
3,050,378
3,054,665

Class 24

3: 3,016,589
3,041,692
3,052,002
3,061,901
5: 3,031,728
10: 3,056,180
11: 3,027,613
3,032,843
3,041,693
13: 3,025,580
3,049,770
16: 3,026,587
3,032,844
3,048,906
3,049,771
3,066,366
17: 3,022,557
18: 3,045,303
19: 3,036,319
3,064,325
21: 3,015,865
33: 3,067,474
49: 3,042,983
3,049,772
3,052,937
3,059,298
65: 3,047,918
66: 3,057,027
3,057,028
3,064,326
3,069,737
68: 3,028,645
3,037,253
3,050,799
69: 3,050,800
71.3: 3,021,580
73: 3,015,140
3,015,866
3,016,590
3,018,529
3,018,530
3,019,498
3,019,499
3,020,611
3,021,581
3,023,469
3,023,470
3,024,509
3,029,486
3,032,845
3,037,254
3,038,223
3,040,401
3,047,919
3,047,920
3,054,156
3,056,181
3,059,299
3,060,535
3,063,114
3,063,115
3,067,475
3,068,540
76: 3,026,588
77: 3,030,680
3,045,304
81: 3,016,591
3,019,500
3,021,582

81: 3,030,681
3,034,187
3,038,224
3,039,159
3,050,801
3,050,802
3,055,068
3,058,183
3,066,367
3,066,368
85: 3,049,773
87: 3,042,984
3,049,774
90: 3,028,646
97: 3,034,188
3,061,902
103: 3,041,694
3,066,369
109: 3,021,583
116: 3,023,471
3,027,614
3,027,615
3,054,157
117: 3,065,512
3,066,370
120: 3,057,029
122.6: 3,045,305
3,048,907
3,048,908
123: 3,015,867
3,032,846
3,036,350
3,036,351
3,040,402
3,048,909
3,052,003
3,058,184
3,066,371
3,069,738
126: 3,041,695
3,049,775
127: 3,023,472
128: 3,066,372
129: 3,050,803
3,052,004
3,069,739
134: 3,017,678
3,018,531
3,022,558
3,040,403
3,045,306
3,059,300
135: 3,058,185
136: 3,066,373
137: 3,041,696
3,058,186
3,060,536
153: 3,018,532
3,042,985
158: 3,045,626
161: 3,018,533
3,030,682
3,047,921
3,052,938
3,049,776
3,063,116
171: 3,027,616
3,031,729
178: 3,036,352
3,063,117
180: 3,049,778
197: 3,060,537
198: 3,066,374
201: 3,017,679
3,027,617
3,038,225
3,041,697
3,049,779
3,058,187
3,063,118
204: 3,020,613
3,031,730
205.1: 3,026,589
3,030,683
3,037,255
3,047,922
3,054,158
3,058,188
3,063,119
205.11: Re.25,170
3,030,684
3,046,627
3,067,476
205.13: 3,015,868
3,022,559
3,027,618
3,047,923
3,047,924
3,055,069
3,055,070
3,057,030
3,063,120

205.13: 3,068,541
205.14: 3,016,592
3,018,534
3,026,590
3,028,647
3,038,226
3,038,227
3,038,228
3,045,307
3,046,628
3,047,925
3,050,804
3,052,939
3,068,542
205.15: Re.25,223
Re.25,250
3,017,680
3,022,560
3,049,780
3,059,301
205.16: 3,057,031
206: 3,038,229
208: 3,052,005
211: 3,024,510
3,037,256
3,045,308
3,046,629
3,052,940
3,059,302
3,066,375
213: 3,015,869
3,018,535
3,019,501
3,039,160
3,049,777
3,049,781
214: 3,050,805
215: 3,048,910
3,061,937
216: 3,015,141
3,045,309
221: 3,015,870
3,052,941
3,055,071
3,060,538
224: 3,052,942
226: 3,050,806
3,069,740
227: 3,016,593
3,041,698
230: 3,029,487
3,032,847
3,035,320
3,036,353
232: 3,020,614
233: 3,026,591
234: 3,032,848
236: 3,046,630
238: 3,044,134
241: 3,040,404
243: 3,018,536
3,023,473
3,034,189
3,036,354
3,063,121
3,067,478
245: 3,028,648
3,052,006
246: 3,037,257
247: 3,034,190
248: 3,026,592
249: 3,026,593
3,037,258
250: 3,028,649
3,057,032
251: 3,047,926
252: 3,047,927
254: 3,017,681
259: 3,023,474
3,025,581
3,036,182
260: 3,049,782
262: 3,032,849
263: 3,015,142
3,018,537
3,019,502
3,024,511
3,025,582
3,029,488
3,029,489
3,039,161
3,040,405
3,040,406
3,042,987
3,044,135
3,045,310
3,052,943
3,058,189
3,059,303
265: 3,017,682
3,019,503
3,019,504
3,030,685
3,030,686

265: 3,039,162
3,065,513
268: 3,061,903
270: 3,021,584
274: 3,028,650
277: 3,040,407
3,055,072
279: 3,021,585
3,064,327
3,069,741
282: 3,038,230
283: 3,052,944
284: 3,022,561

Class 25

1: 3,058,190
3,059,304
2: 3,032,850
3,032,851
3,042,988
3,055,073
7: 3,026,594
8: 3,055,074
10: 3,050,807
14: 3,031,731
22: 3,030,163
3,040,409
3,052,007
29: 3,041,699
30: 3,047,929
32: 3,032,852
3,049,783
36: 3,038,231
3,060,539
38: 3,041,700
3,044,136
41: 3,028,651
3,030,687
3,044,137
3,047,928
3,050,808
3,055,075
3,057,033
3,060,540
42: 3,044,138
3,049,784
45: 3,019,505
3,034,191
3,036,355
3,044,139
3,069,742
60: 3,041,701
91: 3,050,809
100: 3,032,853
103: 3,045,311
3,059,305
104 5: 3,039,164
107: 3,015,143
3,050,810
3,059,306
108: 3,019,506
118: 3,016,594
3,023,475
3,024,512
3,045,312
3,046,631
3,047,930
3,048,911
3,049,785
3,049,786
3,049,787
3,052,945
120: 3,061,904
121: 3,017,683
3,021,586
3,023,476
3,023,477
3,030,688
122: 3,028,652
128: 3,020,615
3,024,513
131: 3,015,144
3,016,595
3,016,596
3,018,538
3,020,616
3,035,321
3,040,410
3,045,313
3,047,931
3,055,076
3,057,034
3,057,035
3,067,479
3,059,743
131. 5: 3,035,322
3,037,259
3,052,008
3,063,122
131. 6: 3,022,562
134: 3,026,595
142: 3,024,514
3,024,515
3,035,323

142: 3,050,811
145: 3,023,478
153: 3,020,617
3,057,035
154: 3,020,618
3,029,490
3,036,356
3,041,702
3,056,183
3,060,542
155: Re.25,199
3,034,192
3,035,324
3,040,411
3,055,077
3,065,514
3,066,376
3,069,744
156: 3,016,597
3,016,598
3,039,165
3,050,812
3,050,813
3,056,184
3,056,185
3,060,543
3,068,543
157: 3,020,619
3,035,325
3,044,140
3,065,515

Class 26

1: 3,055,078
2: 3,034,193
10: 3,044,141
11: 3,035,326
3,050,814
12: 3,059,307
15: 3,039,166
3,050,815
18. 5: 3,044,142
18. 6: 3,015,145
3,015,146
3,044,143
19: 3,039,167
3,061,905
28: 3,068,544
31: 3,060,544
35: 3,026,596
51. 3: 3,020,620
51. 5: 3,041,703
57: 3,029,491
3,031,732
61: 3,050,816
3,066,377
62: 3,023,479
3,054,159
3,058,191
3,066,378
63: 3,060,545
64: 3,041,989
68: 3,029,492
3,061,906
70: 3,023,480
3,025,583
3,030,689

Class 27

1: 3,052,946
2: 3,045,314
6: 3,030,168
7: 3,050,817
12: 3,041,704
3,065,516
15: 3,055,079
17: 3,065,517
18: 3,060,546
19: 3,066,379
21: 3,044,144
35: 3,038,232
3,050,818

Class 28

1: 3,022,563
3,023,481
3,024,516
3,025,584
3,025,585
3,026,597
3,027,619
3,028,653
3,028,654
3,031,733
3,035,327
3,036,357
3,037,260
3,039,169
3,039,170
3,041,705
3,041,706
3,044,145

1: 3,046,632
3,046,633
3,047,932
3,050,819
3,052,009
3,055,080
3,067,480
4: 3,025,586
5: 3,032,854
19: 3,036,358
21: 3,021,587
3,038,235
3,038,236
3,038,237
3,038,238
3,038,239
3,039,308
3,064,328
28: 3,015,147
3,036,359
3,059,309
36: 3,015,871
38: 3,063,123
51: 3,065,518
55. 5: 3,059,310
59. 5: 3,032,856
3,045,315
62: 3,015,872
3,063,124
63: 3,022,564
64: 3,067,481
65: 3,027,620
71. 3: 3,020,621
3,069,745
72: 3,015,148
3,017,684
3,017,685
3,019,507
3,022,565
3,024,517
3,024,518
3,030,690
3,031,734
3,035,328
3,038,233
3,039,171
3,040,412
3,052,947
3,060,547
3,063,125
3,063,126
3,063,127
3,065,519
3,066,380
3,068,545
72. 2: 3,019,508
3,059,311
72. 3: 3,025,587
3,045,316
3,060,548
73: 3,030,691
3,061,907
74: 3,025,588
3,037,261
3,042,990
3,058,192
3,060,549
3,064,329
3,067,482
75: 3,032,855
3,040,413
3,045,317
3,050,820
3,063,128
3,068,546
76: 3,021,588
3,045,318
3,057,036
3,060,550
77: 3,058,193
78: 3,015,149
3,016,599
3,022,566
3,034,194
3,038,240
3,038,241
3,040,414
3,044,146
3,046,634
3,050,821
3,052,948
3,053,191
3,055,081
25. 42: 3,028,655
3,028,656
3,034,198
3,038,242
3,038,243
3,040,415
26: 3,030,695
3,052,011
33: 3,023,484
3,030,694
3,034,199
3,039,176
3,055,082
3,061,909
33. 5: 3,020,623
3,046,636
34: 3,042,993
3,057,042
3,068,549
35: 3,038,196
38: 3,050,826
44: 3,024,520
56: 3,054,161
64: 3,063,131
65: 3,019,510
76: 3,052,950
78: 3,016,600
3,027,622

80: 3,069,746
81: 3,015,150
3,023,483
82: 3,015,873
3,017,686
3,019,509
3,034,196
3,038,235
3,038,236
3,038,237
3,038,238
3,038,239
3,038,240
3,039,173
3,039,174
3,039,524
3,050,821
3,050,822
3,050,823
3,050,824
3,057,038
3,057,039
3,057,040
3,060,552
3,069,747

Class 29

1: 3,029,493
3,030,692
1. 21: 3,022,567
3,032,857
3,032,858
3,036,360
3,038,195
1. 23: 3,069,748
1. 3: 3,027,621
3,061,908
1. 31: 3,026,598
2. 16: 3,026,599
4. 5: 3,050,825
6. 1: 3,034,197
19: 3,066,384
21: 3,040,414
25. 14: 3,032,859
3,042,992
25. 16: 3,068,548
25. 18: 3,017,687
3,020,622
3,045,320
3,067,486
25. 19: 3,045,635
3,057,041
3,063,130
3,065,521
25. 2: 3,046,634
3,050,827
25. 3: 3,015,874
3,018,539
3,022,568
3,024,519
3,027,589
3,028,655
3,030,693
3,038,241
3,039,175
3,044,147
3,047,933
3,060,553
3,063,129
3,064,341
3,067,485
25. 35: 3,037,263
3,048,912
3,052,949
3,055,081
25. 42: 3,028,655
3,028,656
3,034,198
3,038,242
3,038,243
3,040,415
26: 3,030,695
3,052,011
33: 3,023,484
3,030,694
3,034,199
3,039,176
3,055,082
3,061,909
33. 5: 3,020,623
3,046,636
34: 3,042,993
3,057,042
3,068,549
35: 3,038,196
38: 3,050,826
44: 3,024,520
56: 3,054,161
64: 3,063,131
65: 3,019,510
76: 3,052,950
78: 3,016,600
3,027,622

78: 3,042,994
3,045,321
3,050,827
81: 3,020,624
3,023,485
3,054,162
3,057,457
90: 3,049,788
3,059,314
3,059,315
3,069,750
95: 3,052,951
95. 1: 3,022,570
3,058,197
96: 3,026,600
3,027,623
3,028,657
3,036,361
3,044,148
3,045,322
3,050,828
3,052,952
3,058,198
3,059,316
3,060,554
3,066,385
98: 3,063,132
102: 3,022,569
103: 3,015,151
3,036,362
3,058,199
3,059,317
104: 3,061,910
105: 3,023,486
3,027,624
3,036,363
3,036,364
3,056,186
3,057,043
106: 3,027,625
3,027,626
113: 3,046,637
3,050,829
116: 3,042,995
3,052,953
3,052,954
117: 3,035,331
3,060,555
118: 3,035,332
3,045,323
121: 3,021,590
3,063,044
124: 3,064,330
125: 3,054,163
127: 3,030,696
130: 3,019,511
148. 3: 3,050,830
148. 4: 3,018,540
3,023,487
3,025,590
3,026,601
3,027,626
3,028,658
3,036,365
3,042,996
3,049,789
3,052,954
3,052,955
3,052,956
3,054,164
3,057,045
3,068,550
149. 5: 3,034,201
3,036,366
3,036,367
3,044,149
3,047,934
3,057,046
3,059,318
3,063,133
3,065,522
3,068,551
3,068,552
150: 3,041,708
3,045,324
3,065,523
3,068,553
155: 3,025,602
3,045,325
3,046,638
3,050,831
3,056,187
3,059,319
155. 5: 3,015,875
3,020,625
3,020,626
3,027,627
3,028,659
3,029,494
3,031,735
3,031,736
3,031,737
3,031,738

Class 29—Con.

155. 5: 3,032,860
3,032,861
3,037,265
3,038,244
3,039,177
3,040,416
3,042,997
3,042,998
3,042,999
3,044,150
3,045,326
3,048,913
3,049,790
3,050,832
3,052,012
3,052,957
3,059,320
3,059,321
3,059,322
3,061,911
3,063,134
3,064,331
3,064,332
3,065,524
3,066,386
3,067,488
3,068,554
3,068,555
3,069,751
3,069,752
155. 53: 3,052,958
3,059,323
155. 54: 3,066,387
155. 55: 3,015,876
3,015,877
3,023,488
3,025,591
3,026,603
3,032,862
3,034,202
3,038,245
3,044,151
3,049,791
3,049,792
3,054,165
3,057,047
3,067,489
3,069,753
3,069,754
155. 56: 3,018,541
3,028,660
3,058,200
3,064,333
155. 57: 3,015,152
3,020,627
3,027,628
3,030,697
3,032,863
3,034,203
3,043,000
3,047,935
3,049,793
3,052,959
3,058,201
3,063,135
3,063,136
3,064,334
3,066,388
155. 58: 3,069,755
155. 59: 3,029,496
155. 63: 3,026,604
3,031,739
3,037,266
3,048,914
3,055,084
3,064,335
155. 64: 3,050,833
155. 66: 3,017,688
155. 69: 3,036,368
155. 7: 3,022,570
156. 4: 3,052,960
156. 7: 3,016,601
3,040,417
156. 8: 3,018,542
3,019,512
3,021,591
3,026,605
3,028,661
3,029,497
3,032,864
3,039,178
3,041,709
3,044,152
3,044,153
3,045,327
3,045,328
3,045,329
3,047,936
3,052,961
3,055,085
3,056,188
3,058,202
156. 8: 3,067,490
3,068,556
157: 3,047,937
3,048,915
3,052,962
3,058,203
157. 1: 3,049,794
3,052,013
3,052,963
3,055,086
157. 3: 3,015,153
3,015,878
3,018,543
3,018,544
3,019,513
3,024,521
3,034,204
3,035,333
3,036,369
3,036,370
3,038,246
3,045,330
3,046,639
3,048,916
3,052,964
3,056,189
3,059,324
3,060,556
3,066,389
3,066,390
3,067,491
3,067,492
159: 3,058,204
159. 01: 3,044,154
159. 1: 3,052,965
159. 2: 3,028,662
3,069,756
160: 3,037,267
160. 6: 3,052,966
163. 5: 3,061,912
179: 3,030,698
180: 3,023,489
3,052,014
182: 3,035,334
3,045,331
3,052,967
182. 1: 3,069,757
182. 2: 3,068,557
182. 3: 3,031,740
3,047,938
3,049,795
3,059,325
3,069,758
182. 5: 3,019,514
3,021,592
3,034,200
3,045,332
3,056,190
3,066,391
3,067,493
3,069,759
182. 8: 3,054,166
183: 3,015,154
3,058,205
3,063,137
3,067,494
183. 5: 3,030,699
3,044,155
3,047,939
3,049,796
3,055,087
190: 3,016,602
3,065,525
193. 5: 3,015,879
3,022,571
194: 3,015,880
3,017,689
3,023,490
3,023,491
3,025,592
3,034,205
3,044,156
3,045,333
3,049,797
3,055,088
3,059,326
196. 2: 3,066,392
196. 3: 3,050,834
196. 5: 3,064,337
197: 3,046,640
197. 5: 3,063,138
198: 3,019,516
3,066,393
199: 3,065,526
200: 3,020,628
3,020,629
3,031,741
3,048,917
3,055,090
3,055,091
3,066,394
201: 3,029,498
3,040,418
203: 3,015,881
3,019,517
3,023,493
3,025,593
3,032,865
3,037,268
3,037,269
3,043,001
3,045,336
3,046,641
3,047,940
3,047,941
3,050,835
3,054,167
3,057,051
3,063,139
3,064,338
3,064,339
3,066,395
3,066,396
3,067,495
3,067,496
3,067,497
204: 3,052,968
3,061,913
205: 3,017,690
206: 3,066,397
208: 3,024,523
3,029,499
3,032,866
3,039,179
3,046,642
3,046,643
3,050,836
3,050,837
3,054,168
3,054,169
3,054,170
3,067,498
210: 3,068,558
211: 3,015,155
3,017,691
3,019,518
3,020,630
3,029,500
3,045,337
3,052,969
212: 3,019,519
3,040,419
3,067,499
213: 3,029,501
3,031,742
3,032,867
3,034,206
3,041,711
3,046,644
3,065,527
3,068,559
215: 3,038,247
219: 3,039,180
221. 5: 3,052,017
222: 3,066,398
224: 3,048,918
225: 3,022,572
227: 3,025,594
3,045,798
3,067,500
229: 3,015,882
3,017,692
3,030,700
3,040,420
3,041,712
3,050,838
3,052,970
234: 3,019,520
3,035,335
3,061,914
235: 3,022,573
3,027,629
3,036,371
3,044,157
3,052,018
3,052,971
3,061,915
3,066,399
3,067,501
237: 3,036,372
237: 3,039,181
238: 3,061,916
239: 3,025,595
240: 3,027,630
3,035,336
3,035,337
3,040,421
3,040,422
3,046,645
3,064,340
240. 5: 3,040,423
3,052,972
245: 3,029,502
249: 3,065,528
250: 3,027,631
252: 3,016,603
3,024,524
3,031,743
3,069,761
255: 3,016,604
3,067,502
256: 3,018,545
3,041,713
3,050,839
3,055,092
3,056,191
3,060,558
3,060,559
258: 3,059,327
259: 3,067,503
261: 3,063,140
262: 3,037,270
263: 3,050,840
265: 3,052,973
3,055,093
267: 3,040,424
3,055,094
3,068,560
268: 3,050,841
270: 3,030,701
271: 3,015,883
3,069,762
272: 3,045,338
273: 3,048,919
275: 3,057,052
3,064,342
278: 3,044,158
3,046,646
280: 3,030,702
282: 3,028,664
283: 3,019,521
3,029,503
3,031,744
401: 3,023,494
3,043,002
3,061,917
3,067,498
3,065,529
3,068,561
402: 3,039,182
3,066,400
403: 3,031,745
404: 3,059,328
405: 3,034,207
407: 3,026,607
3,027,632
3,034,208
3,052,974
3,056,192
3,056,193
3,057,053
3,061,918
409: 3,041,714
410: 3,050,842
3,054,171
413: 3,040,425
3,052,975
3,054,172
415: 3,037,271
416: 3,026,608
3,039,183
417: 3,020,631
3,021,593
3,039,184
3,041,715
3,066,401
419: 3,026,609
3,038,248
3,044,159
3,067,504
420: 3,020,632
3,049,799
3,052,976
3,064,343
420. 5: 3,037,272
3,041,716
3,060,560
3,066,402
3,066,403
3,067,505
421: 3,020,633
3,023,495
3,024,525
3,036,373
3,036,374
3,045,339
421: 3,046,647
3,055,095
3,064,344
3,064,345
3,068,562
423: 3,015,884
3,040,426
3,044,160
3,060,561
3,063,141
424: 3,021,594
3,052,019
3,063,142
425: 3,029,504
427: 3,058,207
428: 3,061,919
3,065,530
3,067,506
429: 3,015,156
3,027,633
3,057,054
3,069,763
431: 3,018,546
432: 3,034,209
434: 3,056,194
436: 3,069,764
437: 3,060,562
441: 3,049,800
443: 3,057,055
445: 3,044,161
3,061,920
446: 3,041,717
447: 3,063,143
450: 3,028,665
3,049,801
3,065,531
451: 3,026,610
3,058,208
452: 3,032,868
3,061,921
3,066,404
453: 3,016,605
3,054,173
454: 3,026,611
3,027,273
455: 3,031,746
3,046,648
458: 3,034,210
3,068,563
464: 3,061,922
467: 3,036,375
469: 3,025,193
470: 3,020,634
3,024,526
3,041,718
3,047,942
3,050,843
3,054,174
3,065,532
3,069,765
470. 1: 3,052,020
3,058,209
470. 5: 3,023,496
3,044,162
470. 9: 3,015,157
3,015,885
471. 1: 3,025,596
3,030,703
3,037,274
3,037,275
3,045,340
3,052,021
3,067,507
3,068,564
471. 5: 3,035,338
3,055,096
471. 7: 3,055,097
472. 3: 3,068,565
472. 7: 3,032,869
3,058,210
3,065,533
472. 9: 3,030,704
473. 1: 3,017,693
3,021,595
3,031,747
3,063,144
3,065,534
474. 3: 3,040,427
3,046,649
475: 3,040,428
3,050,195
3,057,056
3,057,057
479: 3,032,870
480: 3,016,606
484: 3,065,535
487: 3,060,563
3,061,923
3,067,508
488: 3,046,650
3,069,766
492: 3,034,211
3,055,098
493: 3,043,346
493: 3,065,536
494: 3,038,249
3,065,537
495: 3,020,635
3,035,339
3,066,405
496: 3,056,196
3,065,538
497: 3,065,539
498: 3,046,651
3,066,406
499: 3,063,145
501: 3,029,505
3,045,341
3,055,099
3,059,329
503: 3,039,185
506: 3,044,163
507: 3,018,547
509: 3,017,694
3,024,527
3,038,211
512: 3,037,276
3,069,767
517: 3,041,719
520: 3,039,186
3,050,844
3,050,845
3,055,100
521: 3,031,748
3,043,003
523: 3,017,695
525: 3,059,330
526: 3,030,705
526. 4: 3,024,528
527: 3,017,696
3,028,666
3,036,376
3,050,846
3,054,175
3,055,101
3,068,566
3,069,768
528: 3,029,506
3,030,706
3,031,749
3,044,164
3,045,552
3,047,943
3,050,847
3,050,848
3,054,176
3,059,331
3,061,924
3,066,407
3,069,769
529: 3,028,667
3,038,250
532: 3,044,165
533: 3,020,636
3,069,770
534: 3,029,507
3,029,508
3,038,251
3,039,187
3,050,849
3,054,177
538: 3,044,166
544: 3,021,596
3,035,340
545: 3,037,277
547: 3,031,750
3,055,102
548: 3,038,252
549: 3,055,103
552: 3,017,697
3,017,698
3,019,522
3,032,871
3,046,653
3,050,850
3,056,197
552. 2: 3,035,341
3,060,564
552. 3: 3,024,529
3,055,104
3,066,408
553: 3,034,212
555: 3,064,347
556: 3,017,699
3,035,342
3,041,720
558: 3,060,565
567: 3,038,253
3,044,167
3,067,509

Class 30

2: 3,037,278
3,052,977
3,057,058
3,065,540
4: 3,018,548
3,018,549
4: 3,019,523
3,031,751
3,031,752
3,055,105
3,057,059
3,059,332
3,060,566
3,060,567
3,060,568
3,066,409
3,069,771
6. 1: 3,015,886
3,019,524
3,052,978
3,055,106
3,057,060
3,066,410
6. 3: 3,016,607
3,027,634
7: 3,059,333
8: 3,032,872
3,040,429
3,054,178
9: 3,067,510
16: 3,017,700
3,037,279
20: 3,023,497
24: 3,036,377
28: 3,031,753
3,031,754
29. 5: 3,054,179
30: 3,029,509
3,043,721
3,054,180
3,066,411
32: 3,045,342
3,054,181
34: 3,030,061
3,058,212
3,060,569
35: 3,068,567
36: 3,057,062
41: 3,019,188
3,031,755
3,040,430
3,045,343
3,061,925
42: 3,065,541
43: 3,019,525
3,027,635
3,028,668
3,032,873
3,033,343
3,037,280
3,037,281
3,039,188
3,041,722
3,044,168
3,045,344
3,045,345
3,045,346
3,047,944
3,049,802
3,052,022
3,056,198
3,060,570
3,060,572
3,064,348
3,064,349
3,067,511
3,068,568
3,069,772
45: 3,057,636
47: 3,015,159
51: 3,061,926
53: 3,052,023
58: 3,031,756
60. 5: 3,027,637
3,038,254
3,050,852
3,056,199
62: 3,067,512
67: 3,030,707
74: 3,031,757
3,067,513
90: 3,030,707
3,036,378
90. 5: 3,022,574
91: 3,025,597
3,032,874
3,043,004
3,044,169
3,045,350
92: 3,024,530
3,038,255
3,048,920
100: 3,027,638
102: 3,022,575
3,041,723
105: 3,052,024
114: 3,016,608
3,027,639
115: 3,035,344
123: 3,026,612

123: 3,029,510
124: 3,035,345
3,067,514
128: 3,034,213
131: 3,050,853
133: 3,035,346
3,063,146
134: 3,047,945
3,058,213
140: 3,018,550
141: 3,038,256
148: 3,056,200
154: 3,063,147
156: 3,021,967
162: 3,015,887
3,025,588
3,041,724
3,047,946
166: 3,021,597
3,044,171
167: 3,029,511
169: 3,061,928
179: 3,054,182
180: 3,023,498
3,041,725
3,058,214
186: 3,047,947
197: 3,049,802
200: 3,032,875
201: 3,031,758
3,041,728
3,046,654
3,060,573
202: 3,054,183
3,060,574
210: 3,047,948
213: 3,039,192
221: 3,052,025
228: 3,025,599
3,049,803
3,052,980
3,059,334
232: 3,015,160
233: 3,046,655
240: 3,016,609
241: 3,052,576
3,025,600
3,032,876
245: 3,026,613
3,039,189
248: 3,036,379
3,038,257
3,039,190
3,064,350
3,064,351
254: 3,055,107
257: 3,034,214
3,055,108
3,066,412
258: 3,039,191
266: 3,057,063
3,065,542
268: 3,052,026
271: 3,047,949
272: 3,024,531
3,052,981
276: 3,024,532
3,028,669
3,050,854
3,057,064
3,063,148
277: 3,056,201
3,056,202
284: 3,040,431
292: 3,048,921
294: 3,028,670
3,068,569
296: 3,064,352
300: 3,064,353
303: 3,045,347
304: 3,045,348
310: 3,027,640
315: 3,020,637
317: 3,058,215
326: 3,054,184
329: 3,027,641
3,057,065
339: 3,066,413
341: 3,019,526
355: 3,024,533
358: 3,024,666
360: 3,026,203
363: 3,015,161
367: 3,029,512
368: 3,047,950

Class 31

16: 3,057,066
26: 3,046,656
44: 3,048,922
45: 3,047,951
46: 3,032,877
47: 3,060,575
48: 3,016,610
48: 3,019,527
89: 3,041,153
3,044,863

Class 32

1: 3,049,804
2: 3,023,499
3,035,347
3,043,005
3,060,576
5: 3,019,528
3,023,500
3,047,952
3,057,067
3,057,068
8: 3,027,642
3,052,982
3,069,773
9: 3,015,888
3,041,727
10: 3,023,501
12: 3,046,657
3,052,983
3,055,109
3,057,069
3,058,216
14: 3,028,671
3,034,215
3,036,380
3,043,006
3,043,007
3,052,027
3,052,028
3,052,029
3,054,185
3,055,110
3,055,111
3,056,204
3,061,929
17: 3,043,008
3,060,577
19: 3,026,614
3,040,432
3,045,349
3,046,658
3,056,205
3,058,217
3,059,335
3,059,336
3,060,578
3,064,354
3,066,414
3,068,570
20: 3,024,534
3,035,348
3,060,579
3,069,774
22: 3,049,805
23: 3,035,349
3,041,728
3,054,186
26: 3,050,855
3,050,856
3,060,580
27: 3,032,878
3,037,282
3,052,984
3,054,187
3,055,112
3,058,218
28: 3,060,581
3,061,930
3,069,775
Re.25,130
3,039,193
3,069,776
32: 3,018,551
3,019,529
3,019,530
3,031,759
3,035,350
3,043,009
3,048,923
3,052,030
3,067,515
33: 3,027,643
3,029,513
3,031,760
3,049,806
40: 3,023,502
3,035,351
3,052,985
3,065,543
3,068,571
60: 3,026,616
3,028,672
61: 3,060,582
62: 3,029,514
63: 3,020,638
3,028,673
3,041,729
3,046,659
67: 3,037,283
3,063,149
67: 3,068,572
69: 3,027,644
3,032,879
3,048,924
3,052,031

Class 33

1: 3,018,552
3,018,553
3,020,639
3,027,645
3,031,761
3,031,762
3,037,284
3,037,285
3,037,286
3,046,660
3,046,661
3,061,931
3,066,415
3,066,416
3,068,573
3,068,574
3: 3,018,554
3,022,577
3,032,880
3,043,010
3,057,070
3,066,417
12: 3,066,418
15: 3,034,216
3,067,516
18: 3,024,535
3,055,113
20: 3,068,575
23: 3,020,640
3,032,881
3,055,114
3,058,219
3,063,150
3,068,576
25: 3,044,172
26: 3,025,601
3,067,517
27: 3,015,889
3,020,641
3,021,598
3,026,617
3,035,352
3,045,350
3,047,953
3,052,032
3,065,544
3,068,577
30: 3,016,611
3,065,545
32: 3,016,612
3,027,646
3,058,220
3,059,337
41: 3,025,602
42: 3,052,033
46: Re.25,301
3,015,162
3,021,599
3,021,578
3,023,503
3,027,647
3,027,648
3,029,515
3,037,287
3,043,011
3,044,173
3,056,206
3,057,071
3,058,221
3,060,583
3,063,151
46.5: 3,018,555
47: 3,016,613
3,021,600
3,028,674
3,030,708
3,032,882
3,058,222
49: 3,024,536
3,039,194
3,059,338
50: 3,023,504
3,029,516
3,037,288
3,040,433
3,045,351
3,026,618
60: 3,021,601
61: 3,037,289
3,052,986
62: 3,031,763
64: 3,029,517
3,031,764
67: 3,019,531
69: 3,025,603
72: 3,056,207
74: 3,026,619
75: 3,065,546
3,068,578
76: 3,046,662
3,047,954
3,059,339
80: 3,016,614
3,016,615
3,065,547
81: 3,025,604
85: 3,015,890
3,017,701
3,038,258
3,039,195
3,039,196
3,063,152
87: 3,016,616
3,046,663
93: 3,020,642
94: 3,015,163
3,061,932
98: 3,022,579
3,039,197
102: 3,015,164
104: 3,061,933
112: 3,045,352
3,057,518
122: 3,023,505
125: 3,025,605
3,025,606
3,029,518
3,066,419
126: 3,054,188
126.6: 3,034,217
126.7: 3,041,730
127: 3,025,607
3,067,519
129: 3,027,649
3,037,290
3,043,012
3,058,223
134: 3,015,165
3,068,579
137: 3,016,617
138: 3,020,643
141: 3,050,857
143: 3,015,891
3,016,618
3,037,291
3,041,731
3,041,732
3,060,584
3,060,585
3,068,580
147: 3,018,556
3,026,620
3,037,292
3,046,664
3,046,665
3,054,189
3,056,208
3,067,520
148: 3,015,166
3,034,218
149: 3,038,259
3,041,733
3,045,353
162: 3,043,013
163: 3,060,586
164: 3,032,883
3,046,666
168: 3,029,519
3,045,354
3,050,858
3,063,153
169: 3,015,892
3,048,925
3,058,224
3,063,154
170: 3,018,557
3,021,602
172: 3,016,610
3,016,620
3,017,702
3,028,675
3,029,520
3,036,951
3,041,734
3,047,955
3,050,859
3,058,225
3,059,340
3,061,934
3,066,420
3,069,777
174: Re.25,240
3,021,603
3,023,506
3,026,621
3,027,650
3,029,521
3,029,522
3,030,709
3,035,353
3,037,293
174: 3,037,294
3,039,198
3,040,434
3,040,435
3,040,436
3,041,735
3,046,667
3,046,668
3,046,669
3,047,956
3,047,957
3,050,860
3,056,209
3,056,210
3,058,226
3,060,587
3,061,935
3,061,936
3,061,937
3,063,155
3,065,548
3,068,581
3,069,778
175: 3,040,437
3,052,034
178: 3,023,507
3,023,508
3,024,537
3,026,622
3,028,676
3,028,677
3,038,260
3,044,174
3,044,175
3,046,670
3,046,671
3,048,926
3,050,861
3,057,072
3,058,227
3,060,588
3,061,938
3,061,939
3,063,156
3,065,549
179.5: 3,020,644
3,031,765
3,034,219
3,044,176
3,069,779
180: 3,029,523
3,038,261
3,038,262
3,047,958
3,057,073
184.5: 3,023,509
3,026,623
185: 3,021,604
3,028,678
3,032,884
3,032,885
3,045,355
3,047,959
3,050,862
3,054,190
3,067,521
3,069,780
3,069,781
189: 3,023,510
3,039,199
3,044,177
3,049,807
3,063,157
190: 3,058,228
191: 3,025,608
3,025,609
3,026,624
3,057,074
194: 3,065,550
197: 3,059,341
199: 3,017,703
3,025,610
3,044,178
3,047,960
3,052,035
3,064,355
200.5: 3,031,766
3,045,358
3,048,928
3,057,075
4: 3,054,191
3,054,192
5: 3,020,645
8: 3,045,359
3,063,584
9: 3,044,179
3,048,929
10: 3,020,646
3,048,930
3,056,212
12: 3,041,736
3,057,076
13: 3,060,589
13.8: 3,069,784
15: 3,027,651
17: 3,027,652
3,050,863
3,068,585
18: 3,049,809
3,061,940
20: 3,044,180
3,060,590
3,068,586
21: 3,052,987
23: 3,056,213
24: 3,023,513
27: 3,067,522
3,067,523
28: 3,018,559
3,058,229
31: 3,054,193
32: 3,057,077
3,063,158
34: 3,038,263
43: 3,032,887
3,043,014
45: 3,018,560
3,021,605
3,028,680
3,031,768
3,032,888
3,034,221
3,037,296
3,044,181
3,050,864
3,050,865
3,056,214
3,059,344
48: 3,016,622
3,036,382
3,039,201
3,057,078
3,061,941
3,068,587
3,068,588
50: 3,016,623
3,044,182
51: 3,018,561
52: 3,045,360
3,064,357
53: 3,069,785
54: 3,052,988
3,064,358
55: Re.25,230
3,066,421
57: 3,016,624
3,023,514
3,026,626
3,028,681
3,031,767
3,032,889
3,034,222
3,040,438
3,040,439
3,041,737
3,052,989
3,052,990
58: 3,058,230
60: 3,022,580
62: 3,063,159
3,065,551
68: 3,031,770
72: 3,052,037
73: 3,030,711
75: 3,018,562
3,022,581
3,029,525
3,040,440
76: 3,036,383
3,036,384
77: 3,031,771
78: 3,050,866
79: 3,034,223
3,040,441
80: 3,043,015
3,052,038
3,059,345
82: 3,031,772
3,047,963
3,061,942
3,066,422
85: 3,016,625
86: 3,027,653
3,050,867
3,066,423
87: 3,045,361
3,064,359
89: 3,052,991
90: 3,058,231
91: 3,064,360
3,064,361
92: 3,020,647
3,030,712
3,032,890
3,058,232
95: 3,018,563
3,061,943
96: 3,027,654
99: 3,023,515
3,032,891
3,043,016
3,044,183
3,058,233
3,064,362
100: 3,046,673
102: 3,037,297
103: 3,021,606
104: 3,043,017
110: 3,040,442
3,052,039
3,058,234
3,061,944
112: 3,041,738
115: 3,021,607
3,021,608
3,028,682
3,043,018
124: 3,034,224
3,060,592
3,065,552
125: 3,034,225
133: 3,020,648
3,034,226
3,060,593
135: 3,024,538
136: 3,026,627
3,050,868
137: 3,025,611
141: 3,043,019
145: 3,064,363
151: 3,028,683
3,049,810
156: 3,015,168
3,041,739
3,057,079
3,060,594
158: 3,015,893
3,021,609
160: 3,036,385
3,041,740
3,060,595
162: 3,021,610
163: 3,054,194
164: 3,050,869
3,058,235
168: 3,058,236
171: 3,046,674
173: 3,018,564
174: 3,040,443
3,057,080
177: 3,031,773
182: 3,016,626
187: 3,016,627
191: 3,065,553
195: 3,057,081
202: 3,052,040
204: 3,055,116
225: 3,060,596
231: 3,026,628
236: 3,069,787

Class 35

1: 3,040,444
3,050,870
6: 3,021,611

Class 35—Con.

8: 3,039,202
3,058,237
9: 3,021,612
3,032,892
3,046,675
3,050,871
3,052,041
3,054,195
3,055,117
3,055,118
3,056,215
3,057,082
3,059,346
3,067,524
10: 3,039,203
3,047,964
3,047,965
10.2: 3,020,649
3,034,227
3,034,228
3,035,354
3,037,298
3,039,204
3,060,596
10.4: 3,039,565
3,018,566
3,020,650
3,028,684
3,031,774
3,040,445
3,052,042
3,066,424
3,067,525
3,067,526
3,068,589
11: 3,015,169
3,043,020
3,067,527
12: 3,015,894
3,018,567
3,020,651
3,023,516
3,023,517
3,024,539
3,026,629
3,026,630
3,026,631
3,026,632
3,026,633
3,031,775
3,039,205
3,039,206
3,041,741
3,057,083
3,060,597
3,060,598
3,063,160
3,064,364
3,067,528
3,067,529
13: 3,031,776
3,032,893
3,061,945
16: 3,021,613
17: 3,020,652
3,027,655
3,049,811
3,068,590
19: 3,018,568
3,023,518
3,028,685
3,040,446
3,043,021
3,043,022
3,044,184
3,045,362
3,049,812
3,056,216
3,058,238
22: 3,029,526
23: 3,029,527
3,035,355
24: 3,021,614
3,021,615
25: 3,026,615
3,046,676
3,063,161
26: 3,040,447
3,044,185
3,045,363
3,055,119
3,055,120
3,061,946
3,063,162
3,064,365
28.3: 3,069,788
29: 3,021,616
3,037,299
3,044,186
3,052,992
31: 3,024,540
3,025,612
3,055,121
31: 3,061,947
34: 3,028,686
35: 3,015,895
3,020,653
3,024,541
3,026,634
3,036,386
3,045,364
3,052,043
3,055,122
3,059,347
3,059,348
3,069,789
39: 3,016,628
3,018,569
3,022,582
3,034,229
40: 3,023,519
3,050,872
41: 3,065,554
3,068,591
43: 3,041,742
45: 3,029,528
3,035,356
46: 3,016,629
3,027,656
3,028,687
3,037,300
3,049,813
3,052,993
3,055,123
3,055,124
3,058,239
3,063,163
47: 3,024,542
3,046,677
48: 3,054,196
49: 3,025,613
3,028,688
3,036,387
3,059,349
56: 3,040,448
3,044,187
3,064,366
58: 3,047,966
63: 3,017,707
3,037,301
3,043,023
3,061,948
64: 3,034,230
66: 3,036,388
3,063,164
3,067,530
3,069,790
67: 3,057,084
70: 3,049,814

Class 36

1: 3,018,570
3,027,657
3,032,894
3,035,357
3,041,743
2: 3,052,044
3,052,994
2.5: 3,016,630
3,027,658
3,028,689
3,029,529
3,031,777
3,032,895
3,032,896
3,040,449
3,040,450
3,050,873
3,050,874
3,052,045
3,057,085
3,057,086
3,058,240
3,058,241
3,061,949
3,066,425
3,067,531
3,016,631
3,025,614
3,027,659
3,029,530
3,044,188
3,048,931
3,050,875
3,060,599
3,061,950
4.5: 3,060,600
7.1: 3,027,660
3,031,778
7.2: 3,022,583
3,034,231
7.3: 3,017,705
3,026,635
3,034,232
3,045,365
7.5: 3,020,654
3,032,897
7.5: 3,038,264
3,040,451
3,061,951
7.6: 3,019,533
3,021,617
3,025,615
3,046,678
7.7: 3,063,165
7.8: 3,036,389
8.3: 3,052,995
9: 3,015,170
3,015,171
3,024,543
3,032,898
3,052,046
3,067,532
11: 3,050,876
11.5: 3,037,302
3,059,350
3,063,166
3,063,167
14: 3,026,636
3,026,637
3,044,189
15: 3,019,534
17: 3,028,690
3,046,679
19.5: 3,036,390
22: 3,066,426
24.5: 3,025,616
3,045,366
25: 3,029,531
29: 3,044,190
30: 3,027,661
34: 3,017,706
3,034,233
3,035,358
3,040,452
3,041,744
3,041,745
3,044,191
3,048,932
3,050,877
3,055,125
3,057,087
36: 3,034,234
3,040,453
3,041,746
3,043,024
3,052,047
3,063,168
3,063,169
3,064,367
3,068,592
42: 3,041,747
3,056,217
3,063,170
50: 3,029,532
3,059,351
3,059,352
3,059,353
51: 3,037,303
3,040,454
57: 3,059,354
58.5: 3,039,207
3,047,967
3,050,878
58.6: 3,015,896
59: 3,018,571
3,043,025
3,043,026
3,054,197
3,061,952
3,063,171
68: 3,049,815
72: 3,021,618
3,024,544
3,025,617
3,037,304
3,040,455
3,045,367
3,063,172
3,066,427
3,066,593
3,068,594
77: 3,034,235
3,046,680
78: 3,064,368

Class 37

1: 3,061,953
2: 3,017,707
3,017,708
3,017,709
3,021,619
3,028,691
3,040,456
3,044,192
3,045,368
8: 3,050,879
12: 3,036,391
3,066,428
13: 3,044,193
19: 3,041,748
25: 3,034,236
41: 3,024,545
42: 3,028,692
3,055,126
43: 3,015,172
3,021,620
3,029,533
3,035,359
3,041,749
3,043,027
3,043,028
3,045,369
3,052,048
3,055,127
3,056,218
3,064,369
3,065,555
71: 3,064,370
73: 3,050,880
78: 3,019,535
80: 3,022,584
81: 3,039,208
85: 3,025,618
86: 3,022,585
3,024,546
3,028,693
3,043,029
3,044,194
3,050,881
3,054,198
3,057,088
90: 3,015,572
3,032,899
3,054,199
3,057,089
91: 3,037,305
3,037,306
92: 3,021,621
3,041,750
94: 3,067,533
97: 3,016,632
3,037,307
3,049,816
98: 3,021,622
3,035,360
3,039,209
3,041,751
3,051,882
3,068,595
102: 3,043,030
103: 3,021,623
3,032,900
3,043,031
104: 3,019,536
3,047,968
108: 3,049,817
3,059,355
109: 3,049,818
117.5: 3,030,713
3,034,237
3,038,265
3,039,210
3,043,032
3,065,556
118: 3,052,996
3,056,219
123: 3,017,710
124: 3,052,049
126: 3,030,714
3,057,090
3,060,601
3,063,173
3,064,371
129: 3,015,173
3,016,633
3,021,624
3,028,694
3,035,361
3,038,266
3,039,211
3,039,212
3,048,933
3,048,934
3,049,819
3,060,602
3,061,954
3,066,429
3,068,596
130: 3,021,625
3,024,547
3,028,695
3,037,308
3,043,033
3,063,174
141: 3,021,626
3,028,696
3,029,534
3,032,901
3,065,557
142: 3,019,537
3,020,655
3,021,627
142: 3,022,586
3,023,521
3,025,619
3,041,752
3,055,128
3,057,091
3,063,175
3,063,176
143: 3,028,697
3,044,195
3,044,196
3,046,681
3,052,997
3,061,955
144: 3,016,634
3,016,635
3,018,573
3,025,620
3,028,698
3,031,779
3,037,309
3,039,213
3,041,753
3,049,820
3,049,821
3,058,242
3,059,356
145: 3,034,238
3,038,267
3,058,243
3,059,357
3,069,791
146: 3,063,177
148: 3,043,034
150: 3,047,969
3,052,998
152: 3,063,178
153: 3,050,883
155: 3,049,822
3,061,956
156: 3,015,174
3,016,636
3,026,638
3,038,268
159: 3,022,587
3,028,699
170: 3,016,637
3,041,754
177: 3,069,792
180: 3,027,662
3,032,902
3,034,239
3,036,392
3,057,092
184: 3,036,393
187: 3,041,755
189: 3,068,597
190: 3,020,656
3,043,035
3,049,823
3,052,050
191: 3,022,588
3,049,824
192: 3,015,175
193: 3,032,903
195: 3,030,715
3,043,036
3,061,957

Class 38

2: 3,031,780
14: 3,029,535
3,058,244
15: 3,025,621
37: 3,027,663
64: 3,019,538
66: 3,015,176
3,066,430
71: 3,024,548
3,050,884
3,060,603
3,068,598
77: 3,031,781
3,038,269
3,041,756
3,041,757
3,045,370
3,045,371
3,061,958
3,061,959
79: 3,050,885
99: 3,041,758
3,064,372
104: 3,022,589
105: 3,031,782
107: 3,055,129
111: 3,021,628
112: 3,049,825
3,055,130
115: 3,039,214
3,044,197
3,064,373
121: 3,018,574
3,030,716
121: 3,039,215
3,045,372
3,054,200
122: 3,027,664
137: 3,045,373
138: 3,046,682
140: 3,049,826
3,064,374
144: 3,025,622

Class 39

1: 3,063,179
3: 3,019,539
5: 3,022,590
3,024,549
3,061,960
7: 3,054,240
31: 3,049,827
3,059,358
43: 3,040,457
3,041,759
76: 3,030,717
82: 3,024,550
92: 3,066,431

Class 40

1.5: 3,023,522
3,029,536
3,054,201
3,056,220
2.2: 3,052,999
3,069,793
5: 3,016,638
10: 3,015,177
3,026,639
3,031,783
3,041,760
3,047,970
3,047,971
3,057,093
11: 3,015,897
17: 3,020,657
19.5: 3,021,629
21: 3,020,657
3,020,658
3,021,630
3,027,665
3,037,310
3,043,037
3,052,051
3,059,359
23: 3,034,202
3,037,534
25: 3,016,639
28: 3,054,203
32: 3,060,604
3,063,180
3,064,375
36: 3,016,640
3,055,131
53: 3,034,241
63: 3,018,575
3,032,904
3,061,961
3,064,376
65: 3,064,377
70: 3,016,641
77: 3,026,640
3,040,458
78: 3,038,270
79: 3,027,666
3,044,198
3,059,360
80: 3,063,181
3,067,535
85: 3,061,962
102: 3,019,540
104: 3,027,667
3,050,000
3,061,963
106.21: 3,058,245
106.22: 3,046,683
3,069,794
106.31: 3,061,432
106.34: 3,024,551
106.51: 3,057,094
106.52: 3,054,204
106.53: 3,048,935
107: 3,059,361
109: 3,017,711
3,050,886
120: 3,021,631
3,039,216
122: 3,032,904
124: 3,035,362
3,040,459
124.1: 3,015,898
3,035,363
3,050,887
3,057,095
3,059,362
124.5: 3,045,374
3,055,132
125: 3,015,899
3,026,641
3,034,242
3,037,311
3,045,375
128: 3,030,718
3,031,784
129: 3,024,552
3,055,133
3,060,605
130: 3,015,900
3,017,712
3,027,668
3,027,669
3,038,271
3,043,038
3,056,221
131: 3,054,205
132: 3,015,178
3,023,523
3,023,524
3,050,888
3,056,222
3,068,599
138: 3,032,906
3,043,039
140: 3,022,591
3,022,592
3,028,700
3,059,363
145: 3,058,246
152: 3,016,642
3,035,364
3,037,312
3,039,217
3,041,761
3,041,762
3,069,795
152.1: 3,015,179
3,021,763
154: 3,053,001
3,060,606
155: 3,023,525
158: 3,024,553
3,025,623
204: 3,064,378
209: Re.25,182
213: 3,052,052
219: 3,023,526
302: 3,016,643
306: 3,054,555
307: 3,020,659
308: 3,022,593
3,024,554
312: 3,015,901
3,015,644
3,050,889
315: Re.25,178
316: 3,061,964
3,068,600
319: 3,022,594
325: 3,022,595
331: 3,024,555
334: 3,060,607
335: 3,019,541
336: 3,054,556
3,063,183
340: 3,039,218

Class 41

10: 3,021,632
3,025,624
3,027,670
3,030,719
3,038,272
3,039,219
3,041,764
3,041,765
3,044,199
3,045,376
3,057,096
3,059,364
3,060,608
3,069,796
11: 3,030,720
3,046,684
3,060,609
12: 3,044,200
3,046,685
3,050,890
3,059,365
13: 3,039,220
3,041,766
15: 3,020,660
3,021,633
3,031,785
3,041,767
3,044,201
3,050,891
3,056,223

15: 3, 059, 366
3, 064, 379
17: 3, 017, 714
21: 3, 044, 202
3, 064, 380
22: 3, 046, 686
3, 055, 559
23: 3, 025, 625
3, 025, 626
3, 056, 224
24: 3, 057, 097
26: 3, 025, 627
3, 029, 538
3, 030, 721
3, 043, 040
3, 057, 096
3, 060, 610
27: 3, 060, 611
34: 3, 057, 099
39: 3, 040, 460
41: 3, 016, 293
3, 020, 661
3, 070, 428

Class 42

1: 3, 018, 576
3, 021, 633
3, 022, 596
3, 026, 642
3, 031, 786
3, 063, 184
3, 064, 381
3, 068, 601
5: 3, 050, 892
6: 3, 018, 577
11: 3, 020, 662
13: 3, 018, 578
3, 052, 053
16: 3, 027, 672
3, 030, 722
3, 041, 768
3, 053, 002
18: 3, 019, 542
3, 054, 206
22: 3, 044, 203
25: 3, 020, 634
3, 057, 100
3, 064, 382
39. 5: 3, 056, 225
42: 3, 016, 645
3, 057, 101
50: 3, 039, 221
54: 3, 049, 828
55: 3, 022, 597
3, 050, 893
57: Re.25,308
3, 024, 558
3, 026, 643
3, 029, 539
3, 040, 461
3, 045, 377
3, 057, 102
62: 3, 054, 207
65: 3, 027, 673
3, 030, 723
66: 3, 022, 598
3, 027, 674
69: 3, 016, 646
3, 050, 894
3, 056, 226
3, 065, 560
70: 3, 030, 663
3, 024, 559
3, 031, 787
3, 034, 243
3, 054, 208
3, 064, 383
3, 066, 433
71: 3, 023, 527
74: 3, 019, 543
3, 037, 313
3, 039, 222
75: 3, 060, 612
76: 3, 034, 244
3, 059, 367
79: 3, 029, 540
3, 045, 378
3, 045, 379
84: 3, 023, 528
3, 044, 204
85: 3, 061, 965
88: 3, 030, 724
3, 032, 907
89: 3, 057, 103

Class 43

1: 3, 044, 205
3, 046, 687
3, 052, 054
3, 060, 613
3: 3, 016, 647
3, 021, 535
3, 029, 541
3: 3, 034, 245
3, 047, 972
3, 050, 895
3, 055, 134
3, 059, 368
4: 3, 018, 579
3, 031, 788
3, 050, 896
3, 059, 369
4. 5: 3, 061, 966
3, 069, 797
3, 069, 798
6: 3, 015, 180
3, 036, 395
3, 036, 396
3, 050, 897
6. 5: 3, 049, 829
3, 057, 104
3, 058, 247
3, 060, 614
7: 3, 015, 902
8: 3, 047, 973
3, 065, 562
3, 068, 602
3, 069, 799
9: 3, 015, 903
3, 018, 580
3, 018, 581
3, 023, 529
3, 035, 365
3, 035, 366
3, 038, 273
3, 044, 206
3, 048, 936
3, 058, 248
11: 3, 031, 789
12: 3, 023, 530
3, 030, 725
3, 032, 908
14: 3, 064, 384
15: 3, 015, 181
3, 016, 648
3, 055, 135
3, 055, 136
3, 060, 615
16: 3, 017, 715
3, 023, 531
3, 057, 105
3, 058, 249
17: 3, 020, 664
3, 023, 532
3, 024, 560
3, 024, 561
3, 027, 675
3, 034, 246
3, 037, 314
3, 041, 769
3, 041, 770
3, 053, 003
3, 056, 227
3, 058, 250
3, 058, 251
3, 060, 616
3, 063, 185
17. 1: 3, 043, 041
3, 058, 252
17. 2: 3, 016, 649
3, 029, 542
3, 036, 397
3, 039, 223
3, 061, 967
17. 5: 3, 041, 771
17. 6: 3, 040, 462
18: 3, 036, 398
3, 060, 617
19: 3, 015, 182
3, 026, 644
3, 052, 055
3, 059, 370
3, 065, 563
19. 2: 3, 031, 790
20: 3, 015, 183
3, 020, 665
3, 020, 666
3, 040, 463
21: 3, 064, 385
21. 2: 3, 034, 247
22: 3, 047, 974
3, 058, 253
3, 068, 603
24: 3, 034, 248
3, 058, 254
3, 058, 255
3, 060, 618
3, 063, 186
25: 3, 029, 543
3, 045, 380
3, 050, 898
3, 053, 004
3, 057, 106
3, 069, 800
25. 2: 3, 040, 464
3, 067, 537
26. 2: 3, 045, 381
3, 065, 564
35: 3, 018, 582
3, 020, 667
3, 025, 628
3, 045, 688
3, 059, 371
3, 060, 619
36: 3, 032, 909
37: 3, 026, 645
41: 3, 023, 533
3, 031, 791
41. 2: 3, 063, 187
42. 02: 3, 037, 315
3, 054, 209
42. 05: 3, 068, 604
42. 06: 3, 040, 465
3, 041, 772
3, 047, 975
3, 066, 434
42. 09: 3, 015, 904
3, 040, 466
3, 059, 372
42. 12: 3, 055, 137
42. 13: 3, 055, 138
42. 15: 3, 034, 249
42. 16: 3, 017, 716
3, 020, 668
3, 035, 367
42. 17: 3, 045, 382
42. 2: 3, 031, 792
42. 22: 3, 023, 534
3, 032, 910
42. 23: 3, 040, 468
42. 24: 3, 046, 689
3, 060, 620
42. 28: 3, 037, 316
42. 29: 3, 040, 467
42. 31: 3, 044, 207
42. 33: 3, 069, 801
42. 34: 3, 021, 636
3, 049, 830
42. 37: 3, 032, 911
42. 38: 3, 046, 690
42. 39: 3, 035, 368
42. 41: 3, 019, 544
42. 48: 3, 024, 562
42. 51: 3, 043, 042
3, 056, 228
42. 74: 3, 067, 538
43. 1: 3, 020, 669
3, 023, 535
3, 043, 043
3, 068, 606
43. 11: 3, 022, 599
3, 057, 107
3, 063, 188
43. 12: 3, 026, 646
3, 037, 317
3, 057, 108
43. 13: 3, 023, 537
3, 032, 912
3, 044, 208
3, 067, 539
43. 16: 3, 027, 676
43. 2: 3, 023, 536
44. 4: 3, 026, 647
3, 047, 976
44. 8: 3, 034, 250
3, 046, 691
3, 047, 977
3, 061, 968
44. 82: 3, 027, 677
44. 85: 3, 057, 109
44. 87: 3, 034, 251
3, 037, 318
3, 043, 044
3, 056, 229
44. 89: 3, 019, 545
3, 036, 399
44. 9: 3, 029, 544
44. 91: 3, 019, 546
3, 020, 670
3, 032, 913
44. 93: 3, 030, 726
44. 95: 3, 023, 538
3, 037, 319
3, 060, 621
3, 069, 802
44. 97: 3, 057, 110
44. 98: 3, 043, 045
3, 063, 189
53. 5: 3, 019, 547
3, 034, 252
54. 5: 3, 022, 600
3, 022, 601
3, 024, 563
3, 029, 545
3, 047, 978
3, 060, 622
55: 3, 015, 905
3, 025, 629
3, 036, 400
3, 045, 383
55: 3, 048, 937
3, 053, 005
56: 3, 030, 727
3, 039, 224
3, 039, 225
3, 040, 469
3, 044, 209
3, 068, 607
57. 5: 3, 032, 914
3, 039, 226
3, 053, 006
61: 3, 055, 139
65: 3, 064, 386
81: 3, 031, 793
3, 055, 140
3, 057, 111
3, 058, 256
81. 5: 3, 045, 384
87: 3, 060, 623
3, 068, 608
90: 3, 045, 385
100: 3, 045, 386
105: 3, 029, 546
3, 069, 803
111: 3, 043, 046
113: 3, 023, 539
3, 059, 373
125: 3, 027, 678
131: 3, 015, 184
3, 017, 717
3, 025, 630
3, 032, 915
3, 040, 470
3, 045, 387
137: 3, 023, 540
3, 031, 794
139: 3, 020, 671
3, 041, 773
3, 058, 257
147: 3, 045, 388
3, 054, 210
148: 3, 040, 471

Class 44

6: 3, 062, 628
7: 3, 020, 133
3, 036, 899
7. 5: 3, 046, 101
13: 3, 022, 146
14: 3, 028, 228
15: 3, 062, 629
16: 3, 026, 649
17: 3, 068, 080
25: 3, 036, 900
38: 3, 034, 872
40: 3, 031, 277
3, 034, 873
3, 056, 665
42: 3, 065, 063
51: 3, 018, 172
3, 034, 874
3, 036, 901
3, 067, 018
53: 3, 033, 661
3, 065, 064
3, 068, 081
56: 3, 019, 094
3, 030, 195
3, 036, 902
3, 036, 903
3, 052, 528
3, 062, 630
57: 3, 035, 904
58: 3, 020, 134
3, 031, 278
3, 031, 279
3, 035, 905
3, 035, 906
3, 044, 154
3, 047, 373
3, 052, 529
3, 055, 746
3, 056, 666
3, 066, 018
63: 3, 039, 860
3, 044, 864
3, 047, 372
3, 049, 414
3, 060, 007
3, 068, 082
65: 3, 061, 418
66: 3, 017, 257
3, 021, 205
3, 022, 147
3, 025, 148
3, 027, 246
2, 029, 136
3, 033, 665
3, 035, 906
3, 036, 905
3, 041, 154
3, 047, 373
3, 052, 529
3, 055, 746
3, 056, 666
3, 066, 018
68: 3, 061, 419
69: 3, 023, 092
3, 030, 196
3, 034, 877
3, 034, 878
3, 038, 791
3, 038, 792
3, 041, 155
3, 043, 672
3, 047, 374
3, 052, 530
3, 052, 531
3, 055, 747
3, 055, 748
3, 056, 667
3, 060, 008
3, 060, 009
3, 063, 818
3, 065, 065
3, 069, 246
3, 070, 430
70: 3, 057, 704
3, 068, 083
71: 3, 018, 173
3, 031, 282
3, 034, 879
3, 035, 907
3, 039, 861
3, 046, 102
3, 055, 749
3, 062, 631
72: 3, 017, 258
3, 030, 197
3, 031, 283
3, 063, 819
3, 068, 084
73: 3, 048, 480
3, 053, 645
75: 3, 021, 206
3, 035, 908
3, 063, 820
77: 3, 020, 136
3, 033, 666
3, 047, 375
3, 061, 420
78: 3, 019, 097
3, 020, 137
3, 031, 284
80: 3, 057, 705

Class 45

. 5: 3, 052, 056
24: 3, 015, 185
28: 3, 019, 548
3, 019, 549
3, 022, 602
3, 024, 564
3, 029, 547
3, 048, 938
3, 054, 211
3, 054, 212
3, 059, 374
3, 063, 190
57: 3, 021, 637
58: 3, 028, 701
60: 3, 016, 650
3, 043, 047
3, 061, 969
61: 3, 031, 795
64: 3, 032, 916
3, 041, 774
68: 3, 066, 435
68. 2: 3, 031, 796
3, 050, 899
68. 4: 3, 028, 702
3, 030, 728
3, 040, 472
3, 041, 775
3, 058, 258
81: 3, 027, 679
85: 3, 029, 548
3, 039, 227
85: 3, 041, 776
3, 044, 210
3, 048, 939
3, 065, 565
86: 3, 053, 007
121: 3, 034, 253
3, 056, 230
129: 3, 015, 906
131: 3, 032, 917
3, 043, 048
3, 052, 057
3, 057, 112
3, 060, 624
3, 068, 609
3, 068, 610
137: 3, 025, 631
3, 029, 549
3, 052, 058
138: 3, 024, 565
3, 029, 550
3, 040, 473
2, 054, 213
139: 3, 021, 638
3, 027, 680
3, 028, 703
3, 030, 729
3, 030, 730
3, 036, 401
3, 041, 777
3, 043, 049
3, 045, 389
3, 045, 390

Class 46

1: 3, 032, 918
3, 037, 320
3, 047, 979
3, 047, 980
3, 060, 625
3, 069, 804
3: 3, 048, 940
7: 3, 021, 639
3, 060, 626
3, 064, 387
11: 3, 018, 583
3, 044, 211
14: 3, 058, 259
3, 061, 970
16: 3, 069, 805
17: 3, 020, 672
22: 3, 041, 778
3, 060, 000
25: 3, 034, 254
3, 069, 806
26: 3, 032, 919
30: 3, 066, 436
32: 3, 029, 551
34: 3, 061, 971
39: 3, 036, 402
3, 054, 214
3, 066, 437
3, 068, 388
47: 3, 039, 853
48: 3, 052, 060
51: 3, 050, 901
52: 3, 015, 907
3, 015, 908
3, 040, 474
3, 046, 692
3, 066, 438
53: 3, 046, 693
59: 3, 060, 628
63: 3, 060, 629
65: 3, 025, 632
67: 3, 044, 212
72: 3, 018, 584
74: 3, 021, 640
3, 025, 633
3, 040, 475
3, 041, 779
3, 066, 694
3, 049, 832
75: 3, 068, 611
76: 3, 022, 606
77: 3, 018, 585
3, 058, 260
78: 3, 045, 391
3, 057, 113
79: 3, 063, 191
81: 3, 031, 797
3, 068, 612
86: 3, 055, 141
87: 3, 026, 648
3, 065, 566
88: 3, 025, 634
3, 065, 567
3, 066, 439
88: 3, 066, 440
89: 3, 025, 635
90: 3, 020, 673
94: 3, 036, 403
95: 3, 066, 441
98: 3, 066, 630
99: 3, 058, 261
3, 066, 442
104: 3, 046, 695
3, 056, 231
107: 3, 019, 550
3, 038, 274
112: 3, 024, 566
116: 3, 048, 941
117: 3, 027, 681
3, 032, 920
118: 3, 032, 921
3, 040, 476
3, 041, 780
3, 054, 215
3, 060, 631
3, 063, 192
119: 3, 053, 008
120: 3, 020, 674
3, 029, 552
123: 3, 017, 718
3, 050, 902
3, 055, 142
124: 3, 024, 567
135: 3, 019, 551
3, 021, 641
3, 053, 009
137: 3, 060, 632
3, 063, 193
141: 3, 016, 651
149: 3, 016, 652
3, 050, 903
152: 3, 034, 255
154: 3, 032, 922
156: 3, 019, 552
158: 3, 065, 568
166: 3, 043, 050
168: 3, 068, 613
169: 3, 058, 262
172: 3, 032, 923
173: 3, 052, 061
175: 3, 015, 186
3, 023, 541
3, 029, 553
3, 032, 924
3, 057, 114
176: 3, 032, 925
3, 060, 633
177: 3, 029, 554
3, 044, 213
3, 066, 443
180: 3, 020, 675
3, 054, 216
3, 066, 444
187: 3, 029, 555
189: 3, 064, 388
191: 3, 019, 553
3, 059, 375
192: 3, 064, 389
193: 3, 015, 909
196: 3, 029, 556
3, 029, 557
200: 3, 019, 554
3, 059, 376
201: 3, 039, 229
3, 063, 194
206: 3, 030, 732
3, 061, 972
3, 068, 614
207: 3, 060, 634
213: 3, 027, 682
3, 050, 904
218: 3, 068, 615
220: 3, 037, 321
3, 049, 833
3, 060, 635
3, 060, 636
226: Re.25,295
3, 034, 256
3, 034, 257
228: 3, 034, 258
3, 037, 322
3, 045, 392
232: 3, 024, 568
3, 061, 973
3, 064, 390
239: 3, 032, 926
240: 3, 045, 393
241: 3, 031, 798
3, 059, 377
3, 068, 615
242: 3, 027, 683
243: 3, 019, 555
3, 019, 556
3, 030, 733
3, 036, 404
3, 043, 052
3, 046, 697
3, 054, 217
244: 3, 065, 569

Class 46—Con.

247: 3,038,275
3,054,218

Class 47

1: 3,015,187
3,029,558
3,034,259
3,054,219
3,055,143
3,060,637
3,068,616
1.2: 3,018,586
1.5: 3,021,642
1.7: 3,016,653
2: 3,045,391
3,055,144
3,055,145
3,067,541
6: 3,050,905
8: 3,039,230
9: 3,015,188
3,030,734
3,061,974
3,061,975
3,067,542
10: 3,022,604
17: 3,063,195
18: 3,024,569
19: 3,066,445
25: 3,039,378
33: 3,041,781
34: 3,026,649
3,027,684
3,035,369
3,053,010
3,056,232
37: 3,025,636
3,028,705
3,032,927
3,052,062
3,065,570
38: 3,043,053
3,049,834
3,052,063
3,053,011
3,058,263
3,063,196
3,066,446
3,067,543
3,069,807
39: 3,030,735
3,041,782
41: 3,044,214
3,044,215
3,047,981
3,048,942
3,069,808
42: 3,040,477
44: 3,041,783
46: 3,026,650
47: 3,061,976
3,066,447
48.5: 3,059,379
52: 3,046,698
3,057,115
57.5: 3,035,370
3,069,809
58: 3,017,719
3,017,720
3,019,557
3,020,676
3,022,605
3,024,570
3,057,116
3,063,197
59: P.P.2,139
P.P.2,160
60: P.P.2,117
P.P.2,118
P.P.2,119
P.P.2,122
P.P.2,125
P.P.2,126
P.P.2,127
P.P.2,131
P.P.2,133
P.P.2,136
P.P.2,146
P.P.2,157
P.P.2,158
P.P.2,159
P.P.2,161
P.P.2,169
P.P.2,171
P.P.2,172
P.P.2,174
P.P.2,185
P.P.2,204
P.P.2,206
P.P.2,207
61: P.P.2,120
61: P.P.2,121
P.P.2,123
P.P.2,128
P.P.2,129
P.P.2,130
P.P.2,132
P.P.2,134
P.P.2,137
P.P.2,140
P.P.2,141
P.P.2,142
P.P.2,143
P.P.2,149
P.P.2,150
P.P.2,151
P.P.2,154
P.P.2,155
P.P.2,162
P.P.2,164
P.P.2,165
P.P.2,167
P.P.2,170
P.P.2,173
P.P.2,175
P.P.2,176
P.P.2,177
P.P.2,181
P.P.2,182
P.P.2,183
P.P.2,184
P.P.2,186
P.P.2,187
P.P.2,188
P.P.2,189
P.P.2,190
P.P.2,191
P.P.2,194
P.P.2,195
P.P.2,196
P.P.2,197
P.P.2,199
P.P.2,200
P.P.2,201
P.P.2,203
P.P.2,205
62: P.P.2,124
P.P.2,135
P.P.2,138
P.P.2,144
P.P.2,145
P.P.2,147
P.P.2,148
P.P.2,152
P.P.2,153
P.P.2,156
P.P.2,163
P.P.2,166
P.P.2,168
P.P.2,178
P.P.2,179
P.P.2,180
P.P.2,192
P.P.2,193
P.P.2,198
P.P.2,202

Class 48

63: 3,018,174
3,019,095
3,036,406
76: 3,047,376
103: 3,055,750
144: 3,039,862
176: 3,034,880
180: 3,015,588
3,049,415
184: 3,067,020
3,068,085
3,068,086
190: 3,020,138
3,069,247
191: 3,023,043
192: 3,031,285
196: 3,031,286
3,057,706
3,057,707
3,069,248
197: 3,025,149
3,031,287
3,061,421
3,069,249
3,069,250
203: 3,062,632
3,066,019
206: 3,024,097
3,048,481
3,057,708
213: 3,019,096
215: 3,022,148
3,042,507
3,069,251
216: 3,017,259

Class 49

1: 3,019,558
3,021,643
3,048,943
3,048,944
3: 3,037,323
7: 3,048,945
14: 3,019,559
3,025,637
3,025,638
17.1: 3,035,371
19: 3,015,189
21: 3,052,064
37: 3,024,571
41: 3,021,644
45: 3,015,910
3,024,572
48: 3,016,654
3,018,587
3,036,405
3,044,216
54: 3,015,190
55: 3,053,012
67: 3,020,677
3,023,542
3,023,543
3,037,324
68: 3,015,911
3,027,685
3,054,220
77: 3,030,736
3,039,231
3,050,906
3,054,221
81: 3,029,559
3,035,372
83: 3,047,982
83.1: 3,037,325
84: 3,046,699
3,050,907

Class 50

4: 3,057,117
3,060,638
5: 3,023,544
10: 3,017,721
12: 3,035,373
22: 3,031,799
3,052,065
23: 3,063,199
47: 3,065,572
48: 3,028,706
49: 3,040,478
50: 3,036,406
3,047,983
52: 3,026,651
3,034,260
3,043,054
3,061,977
3,063,200
54: 3,031,800
55: 3,061,978
3,067,544
66: 3,024,573
78: 3,026,652
80: 3,065,573
3,066,448
83: 3,027,686
100: 3,015,191
3,017,722
3,049,835
101: 3,022,607
103: 3,015,192
3,060,639
108: 3,025,639
109: 3,055,146
112: 3,048,946
120: 3,068,617
121: 3,057,118
127: 3,037,326
3,053,013
3,053,014
135: 3,060,640
140: 3,017,723
3,058,264
147: 3,064,392
153: 3,021,645
177: 3,035,374
182: 3,067,545
183: 3,038,276
185: 3,066,449
186: 3,025,640
194: 3,038,277
3,043,055
3,056,233
3,066,450
200: 3,046,700
3,055,147
210: 3,063,201
212: 3,066,451
215: 3,029,560
3,060,641
220: 3,041,784
226: 3,045,395
229: 3,046,701
235: 3,058,265
242: 3,054,222
243: 3,032,928
3,049,836
3,050,908
246: 3,015,193
253: 3,034,261
262: 3,038,278
3,047,984
3,058,266
265: 3,017,724
268: 3,041,785
3,054,223
3,055,148
3,065,574
3,067,546
290: 3,027,687
313: 3,025,650
319: 3,056,234
331: 3,023,545
342: 3,013,560
3,045,396
343: 3,056,235
346: 3,015,194
3,039,232
348: 3,029,561
354: 3,025,641
368: 3,019,561
370: 3,063,202
389: 3,061,979
391: 3,030,737
395: 3,047,985
405: 3,065,575
417: 3,024,574
418: 3,016,655
3,017,725
443: 3,036,407
464: 3,065,576
492: 3,059,380
514: 3,044,217
531: 3,040,479
3,057,119
532: 3,015,912
3,031,801
533: 3,035,375
534: 3,028,707
3,053,015
538: 3,030,738
3,039,233

Class 51

2: 3,039,234
3: 3,019,562
3,024,575
5: 3,027,688
7: 3,037,327
3,045,397
8: 3,032,929
3,044,218
3,047,986
3,053,016
3,056,236
3,069,810
9: 3,015,913
3,028,708
3,031,802
3,034,262
3,041,786
3,041,787
3,052,066
3,069,811
11: 3,030,930
3,055,149
3,069,812
12: 3,021,646
3,034,263
13: 3,048,947
3,049,837
14: 3,020,678
3,055,150
15: 3,044,219
26: 3,069,813
32: 3,023,546
3,031,803
3,060,642
33: 3,030,739
3,053,017
3,054,224
3,056,237
34: 3,017,726
3,020,679
3,025,642
3,029,562
3,030,740
3,032,931
3,032,932
3,037,328
3,059,381
3,065,577
35: 3,058,267
38: 3,036,408
45: 3,022,608
3,037,329
48: 3,045,398
3,061,980
50: 3,019,563
3,025,643
3,037,330
3,043,056
3,049,838
52: 3,054,225
3,054,226
55: 3,021,647
3,022,609
3,029,563
56: 3,015,914
3,019,564
3,026,653
58: 3,027,689
3,067,547
59: 3,023,547
3,027,690
3,031,804
3,052,068
3,064,393
3,069,814
67: 3,043,057
72: 3,016,656
73: 3,020,680
3,039,235
76: 3,024,576
87: 3,041,788
88: 3,066,452
89: 3,060,643
90: 3,035,376
92: 3,046,702
3,047,987
94: 3,040,480
3,067,548
95: 3,024,577
3,032,933
3,043,058
96: 3,017,727
3,022,610
3,060,644
98: 3,048,948
3,053,018
99: 3,036,409
3,039,236
100: 3,032,934
3,039,237
3,040,481
3,044,220
101: 3,023,548
3,040,482
3,041,789
3,057,120
3,064,394
102: 3,034,264
3,041,790
3,057,121
103: 3,025,644
3,031,805
3,032,935
3,043,059
3,046,703
3,046,704
3,054,227
3,054,228
3,058,268
105: 3,025,645
3,029,564
3,046,705
110: 3,060,645
111: 3,035,377
3,063,203
112: 3,036,410
115: 3,018,589
116: 3,053,268
3,059,382
117: 3,024,578
119: 3,061,981
3,063,204
122: 3,020,681
3,043,060
3,054,229
123: 3,037,331
3,044,221
124: 3,032,936
3,050,909
3,060,645
125: 3,057,122
128: 3,032,937
3,061,982
129: 3,031,806
3,050,910
134: 3,016,657
135: 3,021,648
3,029,565
139: 3,060,646
141: 3,022,611
3,029,566
141: 3,043,061
3,049,839
142: 3,044,222
144: 3,066,454
145: 3,020,682
147: 3,041,791
3,049,840
151: 3,053,019
3,057,123
154: 3,040,483
3,041,792
156: 3,063,205
159: 3,016,658
161: 3,063,206
163: 3,020,683
3,054,230
3,063,207
164: 3,031,807
165: 3,015,195
3,017,728
3,018,590
3,019,565
3,025,646
3,027,691
3,030,741
3,034,265
3,035,378
3,036,411
3,037,332
3,039,238
3,039,239
3,039,240
3,043,062
3,046,706
3,047,988
3,052,069
3,055,151
3,056,239
3,064,395
3,056,241
3,060,647
3,064,395
3,064,396
3,065,578
166: 3,016,659
3,019,566
3,054,231
168: 3,036,412
169: 3,029,567
170: 3,019,567
3,029,568
3,049,841
3,049,842
173: 3,019,568
176: 3,044,223
178: 3,046,707
180: 3,041,793
184.2: 3,065,579
3,066,455
184.3: 3,016,660
3,037,333
3,060,648
3,064,397
185: 3,021,649
3,030,742
3,034,266
3,041,794
3,046,708
3,069,815
186: 3,064,398
187: 3,019,569
3,034,267
3,040,484
3,056,242
3,063,208
188: 3,068,620
190: 3,027,692
193: 3,015,915
3,023,549
3,023,550
3,026,654
3,043,063
3,043,064
193.5: 3,028,709
3,053,021
3,058,269
194: 3,039,241
3,041,795
195: 3,019,570
3,038,279
3,039,242
3,041,796
3,041,797
3,041,798
3,043,065
3,046,709
3,054,232
3,067,549
204: 3,039,243
205: 3,021,650
206: Re.25,303
3,016,661
3,028,710
3,049,843
206: 3,069,816
206.4: 3,064,399
207: 3,023,551
3,030,743
209: 3,016,662
3,026,655
3,040,485
3,041,799
3,068,618
3,069,817
210: 3,032,938
214: 3,030,911
215: 3,036,413
216: 3,048,949
217: 3,018,591
219: 3,039,244
3,066,456
3,067,550
220: 3,065,580
225: 3,030,744
3,065,581
235: 3,020,684
236: 3,019,571
3,023,552
3,040,486
3,047,989
237: 3,031,808
3,034,268
3,050,912
3,058,270
3,066,457
3,068,619
238: 3,040,487
3,065,582
240: 3,025,647
241: 3,021,651
3,034,269
3,044,224
3,054,233
250: 3,044,226
3,059,384
256: 3,032,612
263: 3,028,711
3,032,939
3,044,227
266: 3,046,710
267: 3,064,940
3,064,400
268: 3,068,620
273: 3,023,553
274: 3,048,950
3,069,821
277: 3,027,693
3,038,280
3,041,800
281: 3,067,551
283: 3,067,913
284: 3,015,196
3,030,745
3,030,746
3,064,401
3,066,458
287: 3,019,572
3,059,385
289: 3,056,243
291: 3,045,399
293: 3,037,852
295: 3,023,139
3,026,190
3,042,508
3,058,819
3,062,633
297: 3,016,294
3,027,247
298: 3,030,198
3,032,404
3,041,156
3,043,673
3,046,103
3,048,482
3,053,646
305: 3,042,509
306: 3,020,140
309: 3,036,907
310: 3,061,422
317: 3,035,909
320: 3,067,021

Class 52

.5: 3,035,949

Class 53

3: 3,015,916
3,023,554

3: 3,040,488
7: 3,020,685
3,065,583
13: 3,039,386
14: 3,029,369
3,039,245
3,057,125
3,060,651
3,061,983
3,066,459
15: 3,067,552
18: 3,068,621
21: 3,015,917
3,019,572
3,040,489
3,069,822
22: 3,020,686
3,024,579
3,026,656
3,032,941
3,040,490
3,053,022
3,060,652
3,061,984
23: 3,020,687
3,026,657
24: 3,024,580
3,027,694
3,044,228
3,056,244
3,056,245
3,057,126
3,059,387
25: 3,038,281
3,050,914
26: 3,032,942
3,040,491
3,069,823
27: 3,017,729
3,019,573
3,043,067
28: 3,022,613
3,024,581
3,026,658
3,027,595
3,027,696
3,038,282
3,044,229
3,048,951
3,057,127
3,057,128
3,057,129
3,060,653
3,067,553
29: 3,015,918
3,038,283
3,039,246
3,043,068
3,055,152
3,060,654
3,063,209
30: 3,022,614
3,031,809
3,046,711
3,053,023
3,060,655
3,064,402
32: 3,016,663
34: 3,035,379
35: 3,019,574
3,044,230
3,049,844
3,066,460
36: 3,020,688
37: 3,022,615
3,041,801
3,045,400
3,058,271
3,058,272
3,060,656
38: 3,015,919
3,054,234
3,058,273
39: 3,041,802
3,059,388
3,064,403
42: 3,039,247
44: 3,015,920
47: 3,035,380
48: 3,032,943
3,032,944
3,032,945
3,034,270
3,037,334
3,045,401
3,061,985
3,061,986
3,064,404
49: 3,056,246
50: 3,068,622
52: 3,068,623
55: 3,044,231
3,052,070
56: 3,022,616
59: 3,019,575
3,022,617
3,022,618
61: 3,018,592
3,019,576
3,032,946
3,041,803
3,046,712
62: 3,016,664
3,027,697
3,031,810
3,049,845
3,052,071
63: 3,054,235
64: 3,029,570
66: 3,021,652
3,029,571
3,043,402
3,052,072
67: 3,018,593
3,029,572
3,036,414
3,061,987
71: 3,023,555
72: 3,018,594
73: 3,016,665
74: 3,019,577
3,021,653
3,026,659
3,031,811
3,045,403
76: 3,032,947
77: 3,060,657
78: 3,031,595
3,024,582
86: 3,057,130
88: 3,028,712
3,040,492
3,057,131
89: 3,059,389
106: 3,022,619
111: 3,050,915
112: 3,016,666
3,030,747
3,046,713
3,057,132
3,058,274
3,063,210
115: 3,030,748
117: 3,057,133
118: 3,052,073
120: 3,030,749
3,053,024
3,060,658
122: 3,065,584
123: 3,019,578
3,019,579
3,023,556
3,023,557
3,032,948
124: 3,017,730
3,026,660
3,030,750
3,041,804
3,055,153
3,057,134
3,058,275
3,065,585
3,065,586
3,068,624
128: 3,031,812
3,032,949
133: 3,069,824
136: 3,061,988
137: 3,022,620
3,025,648
138: 3,021,654
140: 3,020,689
3,032,950
141: 3,032,951
147: 3,027,698
148: 3,026,661
152: 3,039,248
3,041,805
157: 3,031,813
3,043,069
3,067,554
159: 3,031,814
3,043,070
3,053,025
164: 3,049,846
166: 3,047,990
167: 3,040,493
3,058,276
170: 3,036,415
171: 3,015,921
172: 3,041,806
177: 3,066,461
179: 3,053,026
180: 3,045,404
3,046,714
3,054,236
180: 3,063,211
3,067,555
182: 3,015,922
3,016,667
3,035,381
3,045,405
3,047,991
3,050,916
3,052,074
3,055,154
3,061,989
184: 3,034,271
3,035,382
3,048,952
186: 3,015,923
3,016,668
3,024,583
3,060,659
3,067,556
189: 3,059,390
190: 3,053,027
191: 3,016,669
3,031,815
192: 3,029,573
194: 3,016,670
195: 3,064,405
197: 3,015,924
198: 3,015,925
3,018,596
3,031,816
3,037,335
3,039,249
3,048,953
3,063,212
3,068,625
201: 3,017,731
204: 3,024,584
206: 3,016,671
3,031,817
3,031,818
3,059,391
208: 3,015,197
209: 3,045,406
210: 3,067,557
212: 3,037,336
215: 3,069,825
227: 3,059,392
230: 3,019,580
3,069,826
231: 3,046,715
236: 3,019,581
3,024,585
3,027,699
3,032,952
237: 3,031,819
3,061,990
240: 3,064,406
241: 3,023,558
243: 3,021,655
244: 3,030,751
3,063,213
246: 3,054,237
3,060,660
3,068,626
247: 3,031,820
248: 3,021,656
251: 3,028,713
252: 3,067,558
254: 3,044,232
255: 3,045,238
256: 3,025,649
258: 3,045,407
259: 3,052,075
262: 3,057,136
263: 3,031,821
266: 3,027,700
3,030,752
3,054,239
281: 3,029,574
284: 3,058,277
285: 3,040,494
307: 3,064,407
308: 3,054,240
314: 3,018,597
315: 3,054,241
3,057,135
317: 3,031,822
3,069,827
329: 3,039,250
3,048,954
331.5: 3,026,662
335: 3,055,155
342: 3,036,416
3,060,661
353: 3,020,690
363: 3,055,156
371: 3,019,582
373: 3,016,672
3,019,583
3,061,991
374: 3,049,847
3,069,828
376: 3,020,691
376: 3,045,408
378: 3,054,242
379: 3,026,663
380: 3,063,214
381: 3,050,917
3,067,559
383: 3,038,284
384: 3,015,926
3,025,651
385: 3,044,233
386: 3,050,918
387: 3,015,198
388: 3,063,215
390: 3,016,673
3,019,584
3,021,657
3,025,652
3,045,571
391: 3,031,823
3,058,278
392: 3,020,692

Class 54

44: 3,044,234

Class 55

2: 3,048,955
11: 3,054,243
19: 3,060,662
22: 3,063,216
3,068,627
29: 3,036,417
3,039,251
31: 3,061,992
32: 3,069,829
33: 3,055,157
45: 3,043,072
48: 3,038,285
55: 3,037,337
58: 3,037,338
3,069,830
60: 3,063,217
62: 3,029,575
3,032,953
65: 3,034,272
67: 3,035,383
3,047,992
68: 3,029,576
71: 3,036,418
3,063,218
3,064,408
84: 3,044,235
90: 3,031,919
3,059,393
94: 3,054,244
97: 3,040,495
3,056,247
3,056,462
100: 3,029,577
3,068,628
103: 3,053,028
105: 3,039,252
3,039,253
3,040,496
3,049,848
3,059,394
3,059,395
112: 3,030,753
3,040,497
114: 3,028,714
118: 3,053,029
3,055,158
122: 3,029,578
3,049,849
3,064,409
138: 3,028,715
3,040,498
3,054,245
139: 3,029,579
3,066,463
143: 3,041,807
147: 3,055,159
152: 3,046,716
164: 3,029,580
166: 3,040,499
168: 3,064,410
189: 3,059,396
190: 3,031,030
203: 3,028,716
204: 3,044,236
212: 3,063,219
217: 3,031,824
225: 3,063,220
228: 3,049,850
229: 3,063,221
235: 3,048,956
236: 3,031,825
242: 3,053,030
248: 3,061,993
257: 3,044,237
3,048,957
269: 3,040,500
3,067,560
274: 3,047,993
276: 3,039,254
280: 3,050,920
282: 3,032,954
3,055,160
285: 3,045,409
292: 3,053,031
302: 3,060,663
303: 3,057,137
304: 3,041,808
316: 3,029,581
3,048,958
318: 3,034,273
320: 3,030,754
3,046,717
3,048,959
323: 3,046,718
346: 3,061,994
349: 3,068,629
352: 3,043,410
354: 3,063,222
355: 3,055,161
372: 3,048,960
400: 3,045,411
410: 3,039,255
413: 3,031,031
416: 3,053,032
417: 3,045,412
3,046,719
431: 3,060,664
435: 3,056,248
436: 3,066,464
442: 3,065,587
456: 3,030,755
457: 3,064,411
467: 3,050,921
468: 3,063,223
471: 3,048,961
472: 3,032,955
486: 3,057,138
492: 3,031,826
493: 3,047,994
3,063,224
495: 3,058,279
500: 3,040,501
521: 3,069,831
526: 3,031,827

Class 56

1: 3,015,199
3,023,559
3,036,419
3,039,256
3,043,073
3,061,995
6: 3,034,274
3,040,502
3,058,280
3,068,630
7: 3,038,286
3,049,851
3,058,281
8: 3,057,139
10: 3,026,664
12: 3,050,922
13: 3,058,282
14: 3,031,828
15: 3,021,658
3,035,384
19: 3,030,756
21: 3,060,665
23: 3,023,560
3,038,287
3,049,852
3,058,283
24: 3,027,701
3,046,720
25: 3,018,598
3,031,829
3,041,809
3,043,074
3,061,996
3,066,465
25.4: 3,015,927
3,017,732
3,019,585
3,020,693
3,024,586
3,027,702
3,029,582
3,035,386
3,040,504
3,054,247
3,068,632
26: 3,018,599
3,020,694
3,027,702
3,029,583
3,035,386
3,040,504
3,054,247
3,068,632
26.5: 3,023,563
3,023,564
3,058,286
27: 3,024,587
27.5: 3,059,401
28: 3,036,420
3,039,257
3,040,505
33: 3,015,928
34: 3,067,561
40: 3,021,659
41: 3,028,718
3,046,721
3,047,996
3,048,962
3,068,466
42: R.25,206
3,035,388
43: 3,030,757
3,040,506
44: 3,031,831
3,035,389
3,047,997
3,066,467
49: 3,039,258
50: 3,017,734
3,018,600
3,037,340
53: 3,025,653
63: 3,025,654
104: 3,069,832
106: 3,057,562
119: 3,018,601
3,035,390
3,057,141
3,060,666
121.45: 3,031,832
121.46: 3,059,399
128: 3,017,735
130: 3,053,034
189: 3,037,341
192: 3,021,659
3,031,832
3,032,958
3,043,076
193: 3,015,929
202: 3,047,998
206: 3,065,590
210: 3,021,660
221: 3,045,414
222: 3,030,758
233: 3,025,655
236: 3,016,674
238: 3,031,833
239: 3,015,930
241: 3,046,722
3,057,142
249: 3,058,287
254: 3,044,240
255: 3,038,289
3,043,077
256: 3,047,999
3,053,035
289: 3,043,078
290: 3,043,079
291: 3,029,584
3,034,276
294: 3,043,080
295: 3,018,602
3,022,621
295: 3,028,719
3,044,241
3,049,855
3,050,924
3,050,925
3,059,400
3,068,633
296: 3,037,342
297: 3,017,736
3,058,288
301: 3,066,468
304: 3,044,242
305: 3,052,078
3,064,412
314: 3,043,081
3,046,723
327: 3,066,469
328: 3,020,695
3,026,666
3,029,585
3,040,507
3,041,811
3,059,402
3,068,634
330: 3,023,565
341: 3,016,675
3,022,622
3,035,391
3,040,508
3,044,243
345: 3,057,143
364: 3,020,696
3,021,661
3,021,662
3,055,162
366: 3,031,834
3,038,290
3,038,291
3,059,403
3,069,833
372: 3,068,635
376: 3,063,227
377: 3,015,200
3,015,201
3,015,202
3,016,676
3,030,759
3,030,760
3,035,392
3,036,420
3,038,292
3,040,509
3,040,510
3,049,856
3,059,926
3,057,144
3,057,145
3,060,668
3,069,834
386: 3,053,036
400: 3,019,586
3,026,667
3,031,835
3,065,591
3,066,470
400.01: 3,057,146
501: 3,031,836
3,049,857
503: 3,043,082
504: 3,021,927
505: 3,035,393

Class 57

1: 3,055,163
2: 3,050,928
3: 3,029,586
3,063,228
6: 3,041,812
3,049,404
9: 3,037,343
10: 3,032,959
12: 3,053,037
13: 3,044,244
14: 3,055,164
19: 3,035,394
3,035,395
25: 3,028,720
29: 3,055,165
34: 3,016,677
41: 3,016,678
3,017,737
3,025,656
3,035,396
3,035,397
3,039,259
3,041,813
3,041,814
3,052,079
3,053,038
3,054,248
3,057,147
3,060,667

Class 57—Con.
34.5: 3,066,471
35: 3,053,039
36: 3,016,679
3,020,697
3,043,083
3,044,245
3,060,669
52: 3,030,761
3,054,249
3,059,405
3,059,406
54: 3,059,407
3,067,565
3,067,566
3,067,567
55: 3,049,858
56: 3,018,603
3,045,415
58.3: 3,017,738
3,041,815
3,066,472
58.49: 3,052,080
58.52: 3,018,604
3,029,587
3,044,246
3,061,997
58.59: 3,064,413
58.83: 3,022,623
3,060,670
58.93: 3,038,293
3,038,294
62: 3,035,398
66: 3,067,568
66.6: 3,024,588
3,030,762
73: 3,015,931
3,032,960
3,032,961
75: 3,025,657
77.3: 3,015,932
3,043,084
3,058,289
77.4: 3,021,663
3,026,668
3,066,473
77.45: 3,034,277
3,035,399
3,040,511
3,044,247
3,045,416
3,059,408
3,059,049
78: 3,029,588
81: 3,040,512
83: 3,032,962
84: 3,019,587
3,063,229
86: 3,034,278
88: 3,016,680
3,019,589
3,036,421
3,044,248
3,060,671
3,060,672
3,063,230
90: 3,048,000
3,063,231
91: 3,053,040
93: 3,015,203
98: 3,015,204
99: 3,019,588
3,021,664
3,049,859
102: 3,022,624
104: 3,023,566
3,054,250
105: Re 25,192
3,025,658
3,035,400
3,050,929
3,060,673
3,069,835
106: 3,016,681
108: 3,065,592
112: 3,048,001
115: 3,019,590
117: 3,020,698
119: 3,056,250
120: 3,018,605
3,043,085
3,045,417
122: 3,044,249
3,056,251
125: 3,035,401
3,036,422
3,055,166
129: 3,048,002
132: 3,028,721
3,056,252
135: 3,019,591
3,035,402
3,049,860
3,065,593
137: 3,022,625
139: 3,052,081
3,067,569
140: 3,016,682
3,016,683
3,026,669
3,041,816
3,043,086
3,044,250
3,046,724
3,048,963
3,058,290
3,058,291
3,061,998
3,068,636
142: 3,017,739
3,067,570
144: 3,019,592
3,055,167
145: 3,032,963
3,032,964
3,035,403
148: 3,015,205
3,018,606
3,018,607
152: 3,038,295
153: 3,029,589
3,029,590
156: 3,019,593
3,025,659
3,035,404
3,041,817
157: 3,016,684
3,016,608
3,018,609
3,018,610
3,020,699
3,020,700
3,025,660
3,025,661
3,029,591
3,034,279
3,036,423
3,043,087
3,043,088
3,044,251
3,060,674
3,069,836
3,069,837
3,069,838
160: 3,020,701
3,048,003
162: 3,024,589
3,064,414
163: 3,017,740
165: 3,035,405

Class 58
1: 3,018,611
2: 3,024,590
5: 3,036,424
6: 3,035,406
3,053,232
7: 3,029,592
16: 3,029,593
21.1: 3,034,280
21.12: 3,018,612
3,039,260
21.15: 3,034,281
22.9: 3,018,613
3,034,282
3,034,283
3,059,410
23: 3,049,861
3,052,082
3,057,147
24: 3,039,261
3,048,964
3,059,411
26: 3,019,594
3,043,089
3,043,090
3,063,233
28: 3,015,206
3,015,207
3,015,933
3,016,685
3,021,665
3,034,284
3,034,285
3,041,818
3,041,819
3,048,004
3,050,930
3,056,253
3,058,292
3,058,293
3,059,412
3,059,413
3,060,675
3,060,676
3,063,234
3,066,474
35: 3,028,722
38: 3,059,414
39.5: 3,043,091
41: 3,031,837
3,049,862
3,050,931
44: 3,049,863
46: 3,048,965
50: 3,018,614
3,022,626
3,025,662
52: 3,020,702
54: 3,025,663
55: 3,022,627
63: 3,064,415
68: 3,040,513
74: 3,045,418
80: 3,016,686
82: 3,016,595
3,058,294
3,067,571
85.5: 3,025,664
3,039,262
88: 3,039,263
3,052,083
90: 3,020,703
3,030,763
3,035,407
3,040,514
3,060,677
107: 3,017,741
3,052,084
109: 3,016,687
115: 3,016,688
3,046,725
116: 3,017,742
3,053,041
117: 3,023,567
121: 3,030,764
3,044,286
141: 3,069,839
142: 3,015,208
3,018,615
3,034,287
3,054,251
3,064,416
143: 3,049,864
144: 3,025,665
3,063,235
145: 3,056,254
152: 3,021,666
3,030,765
3,053,042

Class 59
1: 3,020,704
7: 3,028,723
3,028,724
3,041,820
3,058,295
3,063,236
8: 3,063,237
13: 3,040,515
34: 3,030,766
79: 3,018,616
3,036,425
3,038,296
3,063,238
3,066,475
80: 3,046,726
82: 3,026,670
84: 3,028,725
3,055,168
85: 3,068,637
90: 3,061,999

Class 60
6: 3,020,705
3,027,703
3,027,704
3,053,043
3,062,000
7: 3,028,726
3,065,594
8: 3,028,727
12: 3,023,568
3,027,705
3,034,288
3,036,426
3,055,169
3,058,296
13: 3,015,934
3,016,689
3,018,617
3,020,706
3,027,706
3,029,594
3,035,408
3,038,297
3,038,298
3,043,092
3,045,419
3,045,420
13: 3,046,727
3,048,005
3,049,865
3,049,866
3,049,867
3,050,932
3,052,085
3,059,415
3,062,001
3,064,417
3,068,638
3,068,639
16: 3,016,690
3,018,618
3,019,596
3,032,965
19: 3,024,591
3,055,044
3,058,297
3,059,416
3,066,476
23: 3,016,691
3,028,728
3,029,595
3,041,821
3,055,170
3,059,417
24: 3,029,596
3,032,966
3,036,427
3,050,933
3,059,418
25: 3,067,572
26: 3,048,006
3,064,418
26.1: 3,024,592
3,024,749
3,043,289
3,043,093
3,049,868
29: 3,029,597
3,043,094
3,043,095
3,058,298
30: 3,016,692
3,024,593
3,032,967
3,032,968
3,032,969
3,034,290
3,037,344
3,043,096
3,043,097
3,045,421
3,045,422
3,050,934
3,058,299
3,059,419
3,059,420
3,059,421
3,059,422
3,060,678
3,065,595
3,066,477
31: 3,020,707
3,043,098
3,050,935
3,052,086
3,052,087
32: 3,045,423
3,059,423
35.3: 3,024,594
3,029,598
3,032,970
3,040,516
3,045,424
3,049,869
3,049,870
3,065,596
3,065,597
3,065,598
35.4: 3,018,619
3,020,708
3,021,667
3,023,569
3,024,595
3,026,671
3,026,672
3,027,707
3,031,838
3,031,839
3,032,971
3,032,972
3,032,973
3,034,291
3,038,299
3,038,300
3,043,099
3,043,100
3,046,728
3,048,007
3,048,966
3,048,967
3,049,871
3,049,872
35.4: 3,054,252
3,055,171
3,055,172
3,055,173
3,056,255
3,058,300
3,058,301
3,066,478
3,066,479
3,068,640
3,068,641
3,069,840
35.5: 3,016,693
3,016,694
3,027,708
3,027,709
3,027,710
3,027,711
3,027,712
3,027,713
3,028,729
3,028,730
3,029,601
3,029,602
3,030,767
3,030,768
3,030,769
3,030,770
3,030,771
3,031,840
3,031,841
3,031,842
3,031,843
3,032,974
3,032,975
3,032,976
3,032,977
3,032,978
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3,032,980
3,034,292
3,034,293
3,034,294
3,040,524
3,041,829
3,044,259
3,044,260
3,048,974
3,048,975
3,050,937
3,052,093
3,053,045
3,059,426
3,060,685
3,065,485
3,069,850
35.55: 3,019,601
3,025,667
3,032,982
3,038,305
3,039,264
3,040,525
3,040,526
3,040,527
3,041,830
3,041,831
3,046,735
3,046,736
3,048,010
3,048,011
3,048,977
3,049,877
3,050,938
3,055,175
3,056,258
3,058,304
3,063,241
3,064,419
3,064,420
3,067,579
3,069,851
3,069,852
3,069,853
35.6: 3,015,209
3,015,935
3,016,695
3,016,696
3,016,697
3,016,698
3,017,743
3,017,744
3,017,745
3,017,746
3,017,747
3,017,748
3,019,597
3,019,598
3,020,709
3,020,710
3,020,711
3,020,712
3,021,668
3,021,669
3,021,670
3,021,671
35.6: 3,022,628
3,022,629
3,023,570
3,023,571
3,023,572
3,023,573
3,024,596
3,024,597
3,024,598
3,024,599
3,024,600
3,025,666
3,026,673
3,026,674
3,027,709
3,027,710
3,027,711
3,027,712
3,027,713
3,028,729
3,028,730
3,029,601
3,029,602
3,030,767
3,030,768
3,030,769
3,030,770
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3,031,840
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3,031,842
3,031,843
3,032,974
3,032,975
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3,034,292
3,034,293
3,034,294
3,035,410
3,036,428
3,036,429
3,037,345
3,038,301
3,038,302
3,038,303
3,038,304
3,040,517
3,040,518
3,040,519
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3,040,523
3,041,822
3,041,823
3,041,824
3,041,825
3,041,826
3,041,827
3,041,828
3,043,101
3,043,102
3,043,103
3,044,254
3,044,255
3,044,256
3,044,257
3,044,258
3,045,425
3,046,729
3,046,730
3,046,731
3,046,732
3,046,733
3,046,734
3,048,008
3,048,009
3,048,968
3,048,969
3,048,970
3,048,971
3,048,972
3,048,973
3,049,873
3,049,874
3,049,875
3,049,876
3,050,936
3,052,089
3,052,090
3,052,091
3,052,092
3,054,253
3,054,254
3,054,255
3,054,256
3,055,174
3,056,256
3,056,257
35.6: 3,057,148
3,057,149
3,057,150
3,058,302
3,058,303
3,059,424
3,059,425
3,060,679
3,060,680
3,060,681
3,060,682
3,060,683
3,060,684
3,062,003
3,062,004
3,062,005
3,063,239
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3,066,480
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3,066,482
3,066,483
3,066,484
3,067,573
3,067,574
3,067,575
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3,069,843
3,069,844
3,069,845
3,069,846
3,069,847
3,069,848
3,069,849
3,070,565
36: 3,040,528
39.02: 3,037,346
3,057,151
3,057,152
3,057,153
3,069,854
39.06: 3,035,412
39.07: 3,060,678
3,060,686
39.08: 3,016,701
3,041,832
39.09: 3,032,983
3,041,833
3,041,834
3,050,939
3,055,176
3,057,154
3,058,305
39.12: 3,020,715
39.13: 3,023,574
3,066,486
39.14: 3,020,716
3,021,672
3,032,984
3,038,306
3,049,879
3,050,940
3,052,094
3,057,155
3,059,427
3,063,242
3,066,487
39.15: 3,049,880
39.16: 3,037,347
3,037,348
3,037,349
3,038,307
3,055,177
39.17: 3,054,257
39.23: 3,048,014
39.24: 3,025,668
3,066,488
39.25: 3,044,262
3,046,736
3,068,647
39.26: 3,021,673
39.27: 3,025,669
39.28: 3,017,749
3,018,621
3,018,622
3,021,674
3,023,575
3,025,670
3,028,731
3,030,772
3,032,985
3,032,986
3,032,987
3,037,350

39.28: 3,039,988
3,040,529
3,043,104
3,045,426
3,046,739
3,046,740
3,048,012
3,048,013
3,049,881
3,050,941
3,052,095
3,053,047
3,056,259
3,062,007
3,063,243
3,064,421
3,064,422
3,067,580
3,067,581
3,068,648
39.29: 3,016,702
39.32: 3,027,715
39.34: 3,045,427
3,057,156
39.35: 3,025,671
3,027,716
3,032,988
3,037,351
3,037,352
3,053,048
3,058,306
3,059,428
3,065,600
39.36: 3,015,211
3,018,623
3,052,096
39.37: 3,018,624
39.46: 3,046,741
3,050,942
3,059,429
3,068,649
39.47: 3,023,576
3,036,432
3,041,835
3,043,105
3,054,258
3,056,260
3,060,687
3,064,423
39.51: 3,023,577
3,032,989
3,039,265
3,043,106
39.55: 3,038,308
39.6: 3,046,737
3,062,006
39.61: 3,040,530
3,040,531
3,059,430
39.63: 3,057,157
39.65: 3,016,703
3,018,625
3,019,605
3,019,606
3,027,717
3,030,773
3,034,297
3,044,263
3,046,742
3,055,178
3,055,179
3,064,424
3,064,425
39.66: 3,015,937
3,019,607
3,024,606
3,025,672
3,034,298
3,038,309
3,049,882
3,057,158
39.69: 3,029,602
3,031,844
3,041,836
39.71: 3,018,626
3,024,607
39.72: 3,016,704
3,024,608
3,049,883
3,054,259
3,056,261
39.74: 3,016,705
3,020,718
3,021,675
3,026,675
3,029,603
3,030,774
3,032,990
3,044,264
39.75: 3,045,428
39.77: 3,034,299
3,035,413
39.82: 3,016,706
3,022,630

39.82: 3,027,718
3,032,991
3,048,015
3,057,159
3,067,582
49: 3,053,049
51: 3,016,707
3,018,627
3,018,628
3,023,578
3,023,579
3,028,732
3,030,775
3,031,845
3,048,016
3,053,050
3,054,260
3,054,261
3,059,855
52: 3,015,212
3,016,708
3,017,750
3,022,631
3,023,580
3,026,676
3,026,677
3,026,678
3,031,846
3,031,847
3,032,992
3,032,993
3,032,994
3,036,433
3,037,353
3,037,354
3,038,310
3,039,266
3,043,107
3,044,265
3,044,266
3,046,743
3,050,943
3,052,097
3,054,262
3,057,160
3,058,307
3,058,308
3,059,431
3,060,688
3,060,689
3,062,008
3,062,009
3,063,244
3,064,426
3,064,427
3,065,601
3,065,602
3,067,583
3,069,856
53: 3,025,673
3,027,719
3,031,848
3,035,414
3,036,434
3,036,435
3,038,311
3,038,312
3,039,267
3,039,268
3,040,532
3,046,744
3,049,884
3,052,098
3,054,263
3,054,264
3,055,180
3,057,161
3,057,162
3,059,432
3,060,690
3,064,428
3,069,857
54: 3,016,709
3,020,719
3,021,676
3,023,581
3,023,582
3,023,583
3,026,679
3,027,720
3,027,721
3,029,604
3,045,429
3,045,430
3,045,431
3,045,432
3,046,745
3,053,051
3,063,245
54.5: Re.25,162
3,016,710
3,020,720
3,024,609
3,025,674
3,025,675

54.5: 3,029,605
3,030,776
3,031,849
3,032,995
3,034,300
3,036,436
3,038,313
3,039,269
3,040,533
3,044,267
3,045,433
3,048,976
3,048,978
3,052,099
3,056,262
3,059,433
3,064,429
3,068,650
3,069,858
54.6: 3,015,213
3,021,677
3,021,678
3,030,777
3,031,850
3,031,851
3,032,996
3,032,997
3,034,301
3,035,415
3,039,271
3,040,534
3,040,535
3,040,536
3,041,837
3,044,268
3,046,746
3,048,979
3,048,980
3,049,885
3,050,944
3,050,945
3,053,052
3,057,163
3,058,309
3,059,434
3,059,435
3,060,691
3,062,010
3,062,011
3,064,430
3,064,431
3,064,432
3,064,433
3,064,434
3,065,603
3,065,604
3,066,489
3,068,651
3,068,652
56: 3,039,272
57: 3,016,711
3,016,712
3,032,999
3,040,537
3,048,017
3,064,435
70: 3,048,018
3,068,653
73: 3,055,181
3,056,263
3,057,164
3,057,165
3,060,692
3,069,859
97: 3,018,629
3,018,630
3,020,721
3,023,584
3,024,610
3,025,676
3,026,680
3,027,722
3,027,723
3,031,853
3,033,000
3,033,001
3,037,355
3,045,435
3,048,019
3,048,981
3,053,053
3,054,265
3,056,264
3,058,310
3,069,860
102: 3,021,679

102: 3,033,002
3,034,303
3,050,946
104: 3,030,779
108: 3,024,611
3,048,982

Class 61

.5: 3,024,612
3,056,265
3,062,012
3,063,246
3,064,436
3,068,654
1: 3,016,713
3,062,013
5: 3,022,632
3,029,606
6: 3,068,655
7: 3,067,585
11: 3,054,266
12: 3,024,613
13: 3,037,356
3,046,747
3,060,693
15: 3,024,614
3,048,983
21: 3,038,314
22: 3,069,861
25: 3,066,490
28: 3,025,677
36: 3,023,585
41: 3,016,714
3,029,607
3,041,838
3,056,266
3,068,656
45: 3,043,108
46.5: 3,021,680
3,022,633
3,025,678
3,029,608
3,044,269
3,054,267
3,058,311
3,062,014
3,064,437
48: 3,036,437
3,043,109
3,046,748
3,050,947
3,055,182
3,069,862
52: 3,054,268
53.5: 3,056,267
53.58: 3,064,438
53.62: 3,060,694
53.7: 3,027,724
53.72: 3,041,839
3,060,695
3,064,439
54: 3,022,634
56: 3,046,749
56.5: 3,034,304
60: 3,059,436
63: 3,019,608
66: 3,015,214
67: 3,038,312
69: 3,020,722
3,024,615
70: 3,039,273
72.1: 3,023,586
72.6: 3,031,854
3,037,357
3,059,437
3,060,696
3,065,605
3,066,491
82: 3,036,438

Class 62

1: 3,065,606
3: 3,016,715
3,018,631
3,019,609
3,024,616
3,027,725
3,031,855
3,035,416
3,037,358
3,040,538
3,040,539
3,048,020
3,050,948
3,052,100
3,064,440
4: 3,023,587
3,034,305
3,043,110
3,058,313
3,067,594
5: 3,026,681
3,027,726
3,057,166

6: 3,045,436
3,050,949
7: 3,021,681
3,027,727
9: 3,018,632
3,020,723
3,054,269
3,066,492
11: 3,019,610
3,043,111
12: 3,064,441
13: Re.25,185
Re.25,193
3,034,306
3,036,439
3,046,750
3,050,950
3,059,438
3,059,439
3,060,697
3,063,247
14: 3,066,493
17: 3,021,682
3,026,682
3,026,683
3,055,183
3,062,015
18: 3,052,038
19: 3,056,268
20: 3,038,315
21: 3,022,635
3,049,886
22: 3,037,359
3,057,167
3,062,016
24: 3,039,274
25: 3,065,607
3,066,494
29: 3,057,168
3,058,314
36: 3,048,021
37: 3,034,307
40: 3,041,840
41: 3,059,440
42: 3,021,683
3,069,863
44: 3,056,269
45: 3,031,856
3,039,275
3,041,841
3,050,951
3,058,316
48: 3,018,633
3,056,270
3,068,657
49: 3,021,684
3,048,984
3,052,101
50: 3,062,017
3,066,495
3,068,658
52: 3,016,716
3,018,634
3,031,857
3,046,751
3,053,054
3,054,270
3,058,315
3,058,317
3,059,441
3,068,659
54: 3,024,617
3,030,780
3,033,003
3,034,308
3,045,437
55: 3,016,717
3,018,635
3,034,309
3,044,270
3,049,887
56: 3,043,112
58: 3,017,751
3,017,752
3,019,611
3,049,888
3,049,889
3,050,952
3,050,953
3,069,864
63: 3,027,728
3,067,586
64: 3,022,636
3,022,637
3,023,588
3,036,440
3,039,276
3,049,890
3,059,442
3,063,248
3,069,865
65: 3,035,417
3,045,438
66: 3,015,938
3,019,612
3,045,439

68: 3,020,724
3,045,440
3,045,441
71: 3,025,679
3,039,277
3,045,442
3,045,443
80: 3,065,608
81: 3,052,102
3,062,018
85: 3,065,609
86: 3,049,891
89: 3,021,685
3,054,271
93: 3,041,842
96: 3,015,215
97: 3,037,360
101: 3,037,361
103: 3,019,613
3,054,272
104: 3,053,055
3,053,056
105: 3,041,843
107: 3,038,316
110: 3,020,725
114: 3,019,614
115: 3,022,638
3,054,273
116: 3,048,022
117: 3,037,362
123: 3,046,752
126: 3,059,443
132: 3,019,615
3,021,686
3,025,680
3,026,684
3,031,858
3,040,540
3,046,753
133: 3,037,363
135: 3,018,636
3,021,687
3,024,618
3,026,685
3,027,729
3,027,730
3,028,733
3,029,609
3,034,312
3,040,541
3,041,844
3,046,754
3,048,023
3,059,444
3,059,445
3,065,610
136: 3,046,755
3,069,866
137: 3,016,718
3,040,542
3,043,113
3,045,444
3,045,445
3,055,184
138: 3,020,726
3,020,727
3,027,731
3,045,446
3,054,274
3,055,185
139: 3,050,954
3,068,660
140: 3,028,734
3,033,004
3,039,278
3,041,845
3,062,019
3,063,249
3,066,496
141: 3,019,616
3,046,756
149: 3,026,686
3,065,610
150: 3,044,271
3,059,446
151: 3,033,005
3,038,317
154: 3,057,169
155: 3,018,637
3,022,639
3,034,313
3,050,955
3,063,250
156: 3,015,939
3,022,640
3,023,589
3,029,610
3,029,611
3,031,859
3,048,024
3,064,443
3,068,661
158: 3,037,364
3,053,057

159: 3,021,688
3,036,441
3,067,587
3,069,867
160: 3,024,619
3,026,687
3,060,698
3,063,251
161: 3,064,444
163: 3,022,641
170: 3,033,006
172: 3,045,447
174: 3,064,445
175: 3,064,446
176: 3,035,418
3,044,272
177: 3,041,846
178: 3,026,688
180: 3,015,216
3,034,314
181: 3,040,543
183: 3,059,447
185: 3,029,612
186: 3,015,217
3,048,985
3,055,186
187: 3,027,732
189: 3,031,860
192: 3,021,689
3,038,318
193: 3,041,847
196: 3,022,642
3,023,590
3,031,861
3,044,273
3,060,699
3,062,020
197: 3,034,310
3,044,849
3,064,447
199: 3,020,728
203: 3,059,448
204: 3,023,591
208: 3,052,103
209: 3,043,114
3,057,170
210: 3,049,892
211: 3,049,893
215: 3,041,849
216: 3,022,643
218: 3,020,729
226: 3,026,689
233: 3,053,058
234: 3,063,252
236: 3,043,115
237: 3,018,638
238: 3,021,690
3,055,187
239: 3,057,171
3,059,449
243: 3,022,644
244: 3,043,116
248: 3,025,681
251: 3,046,757
256: 3,021,691
3,044,274
3,063,253
3,063,254
3,063,255
3,063,256
259: 3,031,862
3,035,419
3,064,448
260: 3,028,735
262: 3,052,104
263: 3,045,448
267: 3,040,544
3,055,188
268: 3,044,275
3,057,588
271: 3,021,692
272: 3,034,315
273: 3,034,316
275: 3,038,319
3,053,257
278: 3,021,693
3,024,620
279: 3,045,449
283: 3,050,956
285: 3,018,639
3,050,957
3,050,958
289: 3,058,318
293: 3,041,850
3,067,589
298: 3,033,007
3,034,317
3,065,611
299: 3,066,497
303: 3,029,613
304: 3,041,851
305: 3,026,690
3,050,959
3,052,105
306: 3,015,218

Class 62—Con.

307: 3,020,730
309: 3,063,258
3,066,498
311: 3,044,276
3,045,450
316: 3,066,499
317: 3,063,259
320: 3,034,311
324: 3,023,592
3,029,614
332: 3,015,940
334: 3,041,852
335: 3,018,640
3,067,590
339: 3,024,621
340: 3,024,622
3,025,682
3,026,691
3,040,545
3,049,894
341: 3,020,731
3,037,365
342: 3,018,641
3,035,420
3,044,277
3,050,960
3,062,021
343: 3,029,615
344: 3,022,645
3,036,442
3,043,117
3,053,059
3,059,450
3,066,500
3,067,591
345: 3,020,732
3,037,366
3,048,986
346: 3,048,987
347: 3,040,546
3,045,988
3,069,868
348: 3,058,319
349: 3,021,694
352: 3,036,443
353: 3,027,733
3,055,189
3,055,190
3,056,271
3,060,700
3,068,662
354: 3,049,895
355: 3,056,272
3,059,451
357: 3,016,719
3,033,038
361: 3,019,617
362: 3,031,863
370: 3,021,695
371: 3,069,869
375: 3,027,734
3,048,989
3,060,701
380: 3,019,618
3,024,623
381: 3,015,219
3,022,646
3,029,616
382: 3,058,320
384: 3,049,896
390: 3,069,870
3,069,871
391: 3,069,872
392: 3,060,702
393: 3,056,273
394: 3,060,703
395: 3,017,753
402: 3,024,624
3,030,781
3,043,118
3,052,106
3,062,022
407: 3,027,735
3,045,451
414: 3,020,733
417: 3,019,619
418: 3,019,620
3,056,274
419: 3,025,683
3,050,961
426: 3,035,421
3,035,422
3,046,758
3,067,592
427: 3,018,642
3,022,647
428: 3,027,736
429: 3,021,696
435: 3,015,220
3,034,318
3,053,060
440: 3,055,191
3,055,192
440: 3,055,193
3,063,260
457: 3,059,452
467: 3,018,643
3,019,621
3,036,444
469: 3,033,009
470: 3,064,449
483: 3,055,194
485: 3,040,547
487: 3,015,221
488: 3,038,320
489: 3,041,853
491: 3,045,452
495: 3,038,321
497: 3,064,450
499: 3,025,684
503: 3,060,704
505: 3,015,222
3,057,172
513: 3,035,423
3,043,119
514: 3,064,451
515: 3,024,625
3,025,685
3,030,782
517: 3,050,962
527: 3,041,854
531: 3,034,319

Class 63

2: 3,049,897
3,066,501
5: 3,041,855
12: 3,033,010
14: 3,020,734
3,031,864
3,034,320
3,041,856
3,053,061
15: 3,022,648
15. 2: 3,028,736
15. 45: Re.25,163
3,017,754
3,021,697
20: 3,037,367
29: 3,039,279
32: 3,039,280

Class 64

1: 3,024,626
3,052,107
3,062,023
3,067,593
3,069,873
2: 3,043,120
3,057,173
3: 3,031,865
3,044,278
4: 3,044,279
3,053,062
5: 3,064,452
6: 3,043,121
7: 3,062,024
8: 3,020,735
3,020,736
3,022,649
3,029,617
3,038,322
3,044,280
3,067,595
3,069,874
9: 3,045,453
3,054,275
3,068,663
10: 3,024,627
11: 3,020,737
3,024,628
3,033,011
3,034,321
3,036,445
3,044,281
3,046,759
3,053,063
3,055,195
3,058,321
3,059,453
3,063,261
3,067,596
3,068,664
3,068,665
13: 3,062,025
15: 3,019,622
3,026,692
3,030,783
3,041,857
3,066,502
3,068,666
17: 3,044,282
3,045,454
3,045,455
3,057,174
17: 3,062,026
3,065,612
18: 3,016,720
3,030,784
3,036,446
3,044,453
19: 3,020,738
21: 3,016,721
3,017,755
3,017,756
3,029,618
3,041,858
3,045,456
3,050,963
23: 3,016,722
3,069,875
23. 7: 3,026,693
3,035,424
3,045,457
24: 3,015,941
3,024,629
3,062,027
25: 3,045,458
3,050,964
26: 3,034,322
27: 3,016,723
3,020,739
3,023,593
3,031,866
3,038,323
3,039,281
3,054,276
3,060,705
3,063,262
3,066,503
28: 3,049,898
3,060,706
3,064,454
29: 3,016,724
3,036,447
3,050,965
3,063,263
3,067,597
3,068,667
30: 3,024,630
3,025,686
3,028,737
3,050,966
3,064,455
31: 3,034,323
3,063,264
3,063,265
32: 3,063,266
3,068,668

Class 65

1: 3,065,613
3,066,504
3,068,669
12: 3,068,670
14: 3,058,322
15: Re.25,306
16: 3,065,614
17: 3,058,323
19: 3,059,455
39: 3,068,671
43: 3,069,876
45: 3,064,391
61: 3,063,267
103: 3,069,877
107: 3,069,878
148: 3,059,454
159: 3,066,505
178: 3,057,175
187: 3,063,268
236: 3,060,707
243: 3,066,506
244: 3,066,507
268: 3,068,672
291: 3,060,708
327: 3,069,879
360: 3,067,598

Class 66

1: 3,033,012
3,054,277
8: 3,054,278
9: 3,019,623
3,021,698
3,060,709
13: 3,026,694
14: 3,024,631
3,046,760
3,057,176
3,063,269
3,068,673
20: 3,026,695
41: 3,033,013
3,058,324
42: 3,023,594
3,034,324
43: 3,040,548
43: 3,046,761
3,046,762
3,046,763
3,069,880
46: 3,049,899
48: 3,054,279
50: 3,023,595
3,030,785
3,035,425
3,066,508
3,067,599
54: 3,028,738
3,068,674
55: 3,029,619
56: 3,021,699
60: 3,019,624
3,024,632
3,024,633
3,025,687
3,029,620
3,049,900
3,053,064
64: 3,018,644
69: 3,052,108
75: 3,066,509
76: 3,035,426
78: 3,063,270
82: 3,063,271
84: 3,019,625
3,030,786
3,055,196
85: 3,029,621
86: 3,036,448
3,044,283
3,046,764
3,046,765
3,063,272
3,063,273
3,063,274
3,066,510
88: 3,050,967
3,058,325
3,059,456
3,066,511
89: 3,019,626
3,057,177
91: 3,019,627
92: 3,041,859
94: 3,045,459
95: 3,052,109
96: 3,046,766
107: 3,024,634
108: 3,041,860
121: 3,031,867
3,050,968
122: 3,022,650
3,022,651
123: 3,034,325
125: 3,018,645
3,026,696
3,031,868
3,055,197
3,055,198
3,062,028
3,067,600
127: 3,030,787
129: 3,059,457
130: 3,050,969
136: 3,020,740
138: 3,048,990
140: 3,016,725
3,018,646
3,024,635
3,030,788
3,050,970
3,055,199
145: 3,019,628
3,040,549
3,050,971
3,066,512
146: 3,017,757
3,029,622
147: 3,015,223
149: 3,054,280
3,063,275
150: 3,036,449
152: 3,050,972
154: 3,022,652
3,025,688
3,053,065
3,069,881
155: 3,054,281
157: 3,031,869
3,043,122
163: 3,040,550
166: 3,046,767
3,055,200
3,065,615
171: 3,036,450
3,059,458
172: 3,027,737
3,046,768
3,052,110
173: 3,069,882
176: 3,043,123
3,057,178
177: 3,016,726
3,026,697
3,037,368
3,059,459
178: 3,039,282
3,064,456
3,069,883
179: 3,018,647
3,026,698
180: 3,069,884
182: 3,068,675
186: 3,015,942
187: 3,028,739
188: 3,015,943
190: 3,049,901
3,066,513
191: 3,043,124
3,052,111
3,058,326
192: 3,057,179
194: 3,023,596
195: 3,027,738
3,041,861
3,068,676
3,069,885
197: 3,040,551
200: 3,035,427
202: 3,025,689

Class 67

6. 1: 3,049,902
7: 3,031,870
3,044,284
7. 1: 3,018,648
3,048,991
3,050,973
3,055,201
3,057,180
3,062,029
3,063,276
3,065,616
3,066,514
3,066,515
3,069,886
20. 1: 3,052,112
21: 3,036,451
3,048,025
22. 5: 3,039,283
31: 3,016,727
3,022,653
3,041,862
3,045,460
3,046,769
3,046,770
3,060,710
3,061,277
3,064,457
3,067,601
55: 3,036,452
87: 3,063,278
3,066,516

Class 68

3: 3,039,284
4: 3,021,700
3,029,623
5: 3,024,636
3,027,739
3,027,740
3,037,369
183: 3,016,729
184: 3,044,286
3,048,994
188: 3,063,281
198: 3,015,945
205: 3,023,598
207: 3,021,702
3,022,656
3,035,431
3,057,181
3,062,032
3,065,622
3,068,679
3,068,680
208: 3,039,286
213: 3,023,599
3,038,681
214: 3,039,287
240: 3,030,792
242: 3,052,113
249: 3,053,070
254: 3,028,741
258: 3,031,872

Class 69

1: 3,059,461
6. 5: 3,064,460
7: 3,039,288
9. 5: 3,043,126
10: 3,028,742
12: 3,066,519
3,067,603
13: 3,030,790
3,031,871
3,065,620
15: 3,056,275
17: 3,019,629
3,027,741
3,048,993
3,066,520
18: 3,015,224
3,015,225
3,022,654
3,022,655
3,027,742
3,035,428
3,040,552
3,041,864
3,049,904
3,058,328
19: 3,017,758
3,033,014
3,038,324
3,039,285
20: 3,035,429
3,050,974
3,050,975
21: 3,049,905
22: 3,046,773
3,063,279
3,064,458
23: Re.25,157
3,018,650
3,020,741
3,026,700
3,026,701
3,029,624
3,032,035
3,033,015
3,037,370
3,059,460
175: 3,040,553
3,064,459
176: 3,050,976
177: 3,016,728
3,030,791
178: 3,019,631
181: 3,015,226
3,053,067
3,053,068
3,053,069
3,058,332
183: 3,016,729
184: 3,044,286
3,048,994
188: 3,063,281
198: 3,015,945
205: 3,023,598
207: 3,021,702
3,022,656
3,035,431
3,057,181
3,062,032
3,065,622
3,068,679
3,068,680
208: 3,039,286
213: 3,023,599
3,038,681
214: 3,039,287
240: 3,030,792
242: 3,052,113
249: 3,053,070
254: 3,028,741
258: 3,031,872

Class 69

1: 3,059,461
6. 5: 3,064,460
7: 3,039,288
9. 5: 3,043,126
10: 3,028,742
10: 3,028,743
3,060,714
16: 3,031,873
21: 3,017,759
3,045,463
3,064,461
23: 3,030,793
29: 3,060,715
42: 3,024,639
3,041,865
46: 3,048,995
48: 3,040,554

Class 70

1. 5: 3,041,866
3,058,333
38: 3,068,682
67: 3,025,692
69: 3,020,742
3,020,743
70: 3,031,874
3,034,327
74: 3,053,071
77: 3,065,623
81: 3,050,975,600
3,058,334
90: 3,034,328
93: 3,039,289
97: 3,017,760
3,026,702
3,040,555
3,046,776
99: 3,044,287
100: 3,025,693
107: 3,025,694
129: 3,015,743
133: 3,017,761
134: 3,026,703
3,027,744
3,060,716
135: 3,049,885
144: 3,045,464
146: 3,018,651
147: 3,069,889
150: 3,016,730
3,027,745
3,066,523
153: 3,045,465
3,055,204
3,064,462
3,065,624
156: 3,064,463
163: 3,063,282
168: 3,031,875
207: 3,036,453
216: 3,035,432
3,048,996
218: 3,018,652
224: 3,017,762
3,019,632
3,019,633
240: 3,064,464
256: 3,062,033
264: 3,030,794
3,039,290
3,054,282
3,062,034
267: 3,027,746
269: 3,017,763
272: 3,030,795
276: 3,056,276
285: 3,031,876
297: 3,023,601
303: 3,045,466
314: 3,034,329
315: 3,031,877
3,040,556
3,052,114
322: 3,045,467
332: 3,023,602
3,024,640
3,050,977
355: 3,058,335
360: 3,025,695
364: 3,035,433
3,058,336
366: 3,029,626
367: 3,040,557
371: 3,046,777
384: 3,059,462
388: 3,019,634
395: 3,033,016
421: 3,045,468
432: 3,036,454
443: 3,038,325
451: 3,026,704
3,039,291
456: 3,019,635
3,023,603
3,053,072
3,069,890
459: 3,045,469

Class 71

1: 3,019,098
3,033,668
3,038,793
3,047,377
3,047,378
3,050,380
3,050,381
3,050,382
3,051,563
2.1: 3,056,668
3,060,010
3,062,634
3,068,087
2.2: 3,023,095
3,032,405
3,057,709
2.3: 3,015,550
3,020,141
3,020,142
3,027,248
3,029,137
3,029,138
3,032,406
3,033,667
3,043,674
3,046,104
3,062,635
3,062,636
3,063,821
3,063,822
3,065,066
3,067,022
3,070,431
2.4: 3,023,096
3,031,290
3,036,908
3,062,637
2.5: 3,015,551
3,018,175
3,020,143
3,022,150
3,037,853
3,038,794
3,043,675
3,044,865
3,066,020
3,069,252
3,069,253
3,070,432
2.6: 3,020,144
3,020,145
3,020,146
3,022,151
3,031,291
3,031,292
3,035,910
3,037,854
3,039,863
3,043,676
3,044,866
3,048,483
3,056,669
3,063,823
3,066,021
2.7: 3,016,295
3,022,152
3,025,150
3,030,199
3,034,881
3,054,667
3,054,668
3,055,751
3,056,670
3,057,710
3,063,824
3,063,825
3,068,088
3,070,433
9: 3,025,151
3,041,157
11: 3,030,383
23: 3,034,882
28: 3,054,669
3,061,423
29: 3,022,153
3,024,098
30: 3,029,139
33: 3,029,140
34: 3,019,099
3,022,151
3,024,099
3,024,100
37: 3,028,230
3,030,200
3,032,467
3,034,883
3,047,379
3,049,416
3,049,417
3,067,023
39: 3,033,669
3,049,418
3,050,384
40: 3,022,155
3,041,158
41: 3,015,552
3,025,152
43: 3,026,192
3,057,711
50: 3,020,193
3,067,024
51: 3,046,105
54: 3,070,434
56: 3,060,011
59: 3,033,670
63: 3,057,712
64: 3,021,207
3,026,194
3,027,249
3,027,250
3,032,408
3,037,855
3,041,159
3,041,160
3,049,419
3,049,420
3,050,385
3,056,671
3,057,713
3,060,012
3,070,435

Class 73

1: 3,015,946
3,018,653
3,026,705
3,027,747
3,027,748
3,031,878
3,034,330
3,044,288
3,048,028
3,048,997
3,050,978
3,050,979
3,060,717
3,062,035
3,063,283
3,067,604
3: 3,016,731
3,021,703
3,026,706
3,028,744
3,034,331
3,035,434
3,036,455
3,040,558
3,050,980
3,063,284
3,068,683
4: 3,017,764
3,028,745
3,034,332
3,036,456
3,045,470
3,060,718
3,065,625
3,069,891
5: 3,065,626
6: 3,026,707
3,026,708
7: 3,031,879
3,033,017
3,034,333
3,040,559
3,053,073
3,055,205
3,059,463
3,060,719
3,060,720
3,063,285
3,065,627
3,069,892
9: 3,017,765
3,020,744
3,023,604
3,027,749
3,033,018
3,033,019
3,040,560
3,041,867
3,059,464
10: 3,028,746
3,041,868
3,045,471
3,060,721
11: 3,030,796
12: 3,039,292
3,044,289
3,062,036
3,064,464
3,067,605
15: 3,016,732
3,020,745
3,028,747
3,033,020
3,045,472
15: 3,045,473
3,050,981
3,055,206
3,069,893
15. 4: 3,034,334
3,037,371
15. 6: 3,015,947
3,026,709
3,030,797
3,033,021
3,057,182
17: 3,021,704
3,026,710
3,027,750
3,031,880
3,031,881
3,049,907
3,050,982
3,053,074
19: 3,053,075
3,060,722
3,060,723
3,068,684
23: 3,015,227
3,018,654
3,023,605
3,026,711
3,026,712
3,029,627
3,030,798
3,038,326
3,040,561
3,041,869
3,043,127
3,043,128
3,048,029
3,049,908
3,049,909
3,053,076
3,053,077
3,056,277
3,056,278
3,057,183
3,057,184
3,062,037
3,062,038
3,062,039
3,063,286
3,068,685
3,068,686
3,069,894
3,069,895
3,069,896
3,069,897
3,069,898
27: 3,018,655
3,020,746
3,029,713
3,029,628
3,031,882
3,045,474
3,050,983
3,055,207
3,063,465
29: 3,015,228
30: 3,050,984
3,059,465
3,063,287
32: 3,028,748
3,028,749
3,060,724
35: 3,024,641
3,027,751
3,030,799
3,034,335
3,056,279
37: 3,018,656
3,057,185
37. 5: 3,029,629
3,030,800
3,037,372
3,046,778
3,056,280
37. 6: 3,025,696
3,031,883
37. 7: 3,026,714
3,059,466
37. 8: 3,033,022
3,050,985
37. 9: 3,021,705
3,037,373
3,057,186
3,065,628
3,069,899
38: 3,022,657
3,023,606
3,027,752
3,030,801
3,034,336
3,034,337
3,039,293
3,056,281
3,065,629
3,066,524
40: 3,017,766
3,022,658
3,031,884
3,035,435
3,035,436
3,043,129
3,065,630
40. 5: 3,016,733
3,036,457
3,048,998
3,060,725
40. 7: 3,026,715
3,027,753
3,027,754
3,034,338
41: 3,058,337
41. 5: 3,039,294
45. 5: 3,033,023
3,064,466
45. 6: 3,043,130
46: 3,018,657
3,023,607
3,025,697
3,029,630
3,034,339
49. 2: 3,028,750
3,033,024
3,039,295
49. 5: 3,054,283
49. 6: 3,023,608
3,033,025
3,064,467
49. 7: 3,033,026
49. 8: 3,045,475
53: 3,020,747
3,020,748
3,022,659
3,025,698
3,027,755
3,027,756
3,030,802
3,031,885
3,033,027
3,037,374
3,037,375
3,038,327
3,040,562
3,041,870
3,043,131
3,046,779
3,046,780
3,049,910
3,055,208
3,056,282
3,060,726
3,060,727
3,063,288
3,068,687
54: 3,017,767
3,020,749
3,024,642
3,048,999
3,053,078
55: 3,016,734
3,024,643
3,064,468
56: 3,048,030
57: 3,026,716
3,041,871
59: 3,056,283
3,062,040
3,069,900
60: 3,050,986
3,053,079
61: 3,026,717
3,033,028
3,049,000
3,049,911
3,050,987
3,057,187
3,059,467
3,063,289
65: 3,037,376
3,040,563
3,064,469
67. 1: 3,016,735
3,030,803
3,057,188
67. 2: 3,015,948
3,020,750
3,023,609
3,039,269
3,043,132
3,044,290
3,054,284
3,059,468
67. 4: 3,023,610
3,027,757
67. 5: 3,024,644
3,050,988
3,052,115
67. 7: 3,019,636
3,019,637
3,050,989
67. 8: 3,021,706
3,022,660
3,022,661
3,023,611
3,028,751
3,028,752
3,028,753
3,033,029
3,044,291
3,048,031
3,050,990
3,056,284
3,056,285
3,056,286
3,057,189
3,058,338
3,063,290
3,065,631
3,066,525
3,068,688
67. 9: 3,038,328
3,041,872
3,049,912
3,053,080
69: 3,038,329
3,055,209
71. 2: 3,023,612
3,066,526
71. 4: 3,016,736
3,017,768
3,024,645
3,027,758
3,058,339
71. 5: 3,015,949
3,037,377
3,055,210
71. 6: 3,015,229
3,020,751
3,037,378
3,044,292
3,045,476
3,049,913
3,062,041
73: 3,019,638
3,026,718
3,043,133
3,045,477
3,048,032
3,049,914
76: 3,016,737
79: 3,038,330
80: 3,049,001
3,062,042
81: 3,020,752
3,029,631
84: 3,054,285
86: 3,015,950
3,034,340
3,049,915
3,060,728
87: 3,050,991
88: 3,025,699
3,026,719
3,034,341
3,034,342
3,039,297
3,039,298
3,040,564
3,048,033
3,067,606
3,068,688
88. 5: 3,028,754
3,036,458
3,040,565
3,052,116
3,062,043
89: 3,015,230
3,057,190
3,067,607
90: 3,018,658
91: 3,031,886
3,062,044
3,065,632
93: 3,022,662
3,041,873
3,050,992
94: 3,035,437
3,054,286
3,067,608
95: 3,036,459
3,049,916
95. 5: 3,018,659
3,060,729
96: 3,037,379
3,039,299
100: 3,026,720
3,028,755
3,043,134
3,057,191
3,067,609
101: 3,026,721
3,062,045
103: 3,043,135
105: 3,019,639
3,025,700
105: 3,025,701
3,027,759
3,049,002
112: 3,016,738
113: 3,029,632
3,069,901
114: 3,024,646
3,030,804
3,058,340
116: 3,015,231
3,016,739
3,023,613
3,026,722
3,029,633
3,029,634
3,034,343
3,035,438
3,038,331
3,048,034
3,050,993
3,052,117
3,055,211
3,063,291
3,064,470
3,064,471
3,067,610
117: 3,050,753
3,050,994
3,054,287
3,057,192
118: 3,016,740
3,033,030
3,060,730
3,066,527
119: 3,026,723
3,039,300
133: 3,043,136
3,062,046
135: 3,068,689
136: 3,019,640
3,023,614
3,026,724
3,039,301
3,041,874
3,045,478
3,045,479
3,046,781
3,049,003
3,057,193
3,069,902
139: 3,057,194
3,069,903
140: 3,030,381
141: 3,015,951
3,015,952
3,019,641
3,022,663
3,024,647
3,024,648
3,024,649
3,024,650
3,033,032
3,033,033
3,033,034
3,034,344
3,034,345
3,034,346
3,034,347
3,037,380
3,046,782
3,049,004
3,052,118
3,052,119
3,057,195
3,057,196
3,058,341
3,058,342
3,060,731
3,060,732
3,064,472
143: 3,016,741
3,023,615
3,025,702
3,069,287
144: 3,026,725
3,045,480
146: 3,019,642
3,038,332
3,060,733
3,060,734
3,069,904
147: 3,016,742
3,017,769
3,019,643
3,020,754
3,027,760
3,029,635
3,034,348
3,035,439
3,045,481
3,049,005
3,055,212
3,055,213
3,066,528
147: 3,068,690
148: 3,052,120
149: 3,045,482
3,059,469
3,060,735
150: 3,019,644
3,019,645
3,021,707
3,053,081
151: 3,024,651
3,035,440
3,057,197
3,065,633
151. 5: 3,017,770
153: 3,018,660
155: 3,030,805
3,034,349
3,034,350
3,036,460
3,038,333
3,039,302
3,040,566
3,041,875
3,056,288
3,063,292
159: 3,020,755
3,026,726
3,037,381
3,039,303
3,044,293
160: 3,016,743
3,056,289
3,058,343
3,063,293
3,063,294
162: 3,020,756
3,024,652
3,024,653
3,034,351
3,043,137
3,062,047
168: 3,054,288
3,054,289
169: 3,049,006
170: 3,035,441
3,057,198
3,059,470
3,069,905
171: 3,039,304
172: 3,027,761
178: 3,018,661
3,023,616
3,030,617
3,027,762
3,029,636
3,033,035
3,037,382
3,040,567
3,040,568
3,045,483
3,050,995
3,052,121
3,052,122
3,055,214
3,056,290
3,058,344
3,062,048
179: 3,040,569
180: 3,045,484
3,069,906
181: 3,020,757
3,039,305
182: 3,049,007
3,050,996
3,068,691
188: 3,049,008
3,055,215
189: 3,064,473
3,068,692
190: 3,022,664
3,059,471
194: 3,015,953
3,020,758
3,020,759
3,021,708
3,029,637
3,033,036
3,036,461
3,036,462
3,037,383
3,038,334
3,039,306
3,040,570
3,040,571
3,043,138
3,043,139
3,043,140
3,043,141
3,044,294
3,049,917
3,050,997
3,056,291
3,056,292
3,060,736
3,060,737

Class 73—Con.

194: 3,063,295
3,066,529
3,068,694
198: 3,053,082
3,056,293
200: 3,021,709
3,027,763
3,040,572
3,040,573
3,040,574
3,048,035
3,056,294
3,059,472
3,064,474
201: 3,019,646
202: 3,027,764
3,034,352
203: 3,066,530
204: 3,015,232
3,019,647
3,020,760
3,030,806
3,056,295
3,068,693
205: 3,015,233
3,029,638
3,053,083
3,055,216
209: 3,024,654
3,024,655
3,049,918
3,053,084
3,060,738
3,060,739
211: 3,026,727
3,037,384
3,040,575
212: 3,019,648
3,029,639
3,030,807
3,034,353
3,038,335
3,043,142
214: 3,067,611
217: 3,039,307
218: 3,018,662
223: 3,019,649
224: 3,023,618
3,040,576
3,041,876
3,045,485
3,054,290
228: 3,040,577
3,049,919
3,050,998
229: 3,021,710
3,053,085
3,069,907
230: 3,024,656
3,053,086
3,060,740
231: 3,043,143
3,049,009
3,053,087
3,064,475
233: 3,027,765
235: 3,029,640
244: 3,068,695
257: 3,040,578
258: 3,035,442
3,039,311
259: 3,053,088
3,059,473
262: 3,030,808
270: 3,020,761
272: 3,046,783
273: 3,045,486
3,060,741
3,067,612
3,068,696
290: 3,017,771
3,019,650
3,048,036
3,066,531
291: 3,029,641
3,049,920
293: 3,053,089
3,054,291
3,068,697
295: 3,030,809
3,031,887
298: 3,025,703
3,026,728
3,055,217
299: 3,023,619
3,036,463
3,038,336
3,048,037
3,054,292
300: 3,046,784
302: 3,049,921
3,065,634
304: 3,019,651
3,022,665
3,025,704
3,037,385
3,050,999
305: 3,051,000
3,056,296
3,058,345
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Class 74

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768: 3,021,729
770: 3,056,314
781: 3,055,235
785: 3,018,673
3,049,029
3,055,236
3,069,929
789: 3,055,237
793: 3,015,972
3,051,022
796: 3,020,782
3,023,642
3,023,643
3,023,644
3,035,459
3,035,460
3,039,328
3,064,498
798: 3,021,730
3,041,893
3,048,058
3,060,767
801: 3,015,973
3,021,731
3,026,745
3,033,059
3,057,228
3,059,505
804: 3,033,060
3,037,400
3,043,164
805: 3,052,138
3,055,315
815: 3,067,633
818: 3,031,902
819: 3,048,059
821: 3,024,669
822: 3,026,746
3,030,826
3,035,461
3,064,499

Class 75

.5: 3,032,409
3,044,867
3,049,421
3,052,532
3,055,752
3,060,013
3,062,638
3,066,022
3,068,089
3,070,436
1: 3,034,884
3,057,714
3: 3,027,251
3,041,161
3,053,647
5: 3,020,147
3,024,101
3,043,677
3,057,715
10: 3,024,102
3,032,410
3,058,820
11: 3,052,533
21: 3,030,201
3,033,671
24: 3,015,553
3,017,251
3,043,678
26: 3,019,100
3,020,148
3,020,149
3,021,208
3,022,156
3,031,293
3,043,679
3,053,648
3,062,639
27: 3,025,153
3,033,672
3,036,909
28: 3,017,262
29: 3,044,868
30: 3,022,157
3,037,856
33: 3,068,090
34: 3,029,141
3,033,673
36: 3,046,106
3,068,091
38: 3,028,231
3,063,826
40: 3,038,795
41: 3,020,150
3,052,534
42: 3,058,821
3,062,640
43: 3,060,014
44: 3,036,910
48: 3,058,822
49: 3,026,195
3,042,510
51: 3,015,554
3,028,232
3,030,202
52: 3,034,885
53: 3,034,886
3,051,564
58: 3,055,753
59: 3,046,107
60: 3,030,203
3,034,887
3,058,823
3,060,015
61: 3,063,827
63: 3,049,422
3,057,716
65: 3,070,437
66: 3,043,680
3,044,869
3,044,870
67: 3,017,263
3,023,154
3,039,864
3,042,511
68: 3,025,155
3,031,294
3,068,092
74: 3,032,411
76: 3,063,828
77: 3,052,535
78: 3,041,162
80: 3,015,670
81: 3,039,865
82: 3,020,151
3,034,888
3,069,254
83: 3,021,209
84: 3,015,556
3,016,296
3,047,380
3,048,484
3,053,649
84.1: 3,015,555
3,015,557
3,023,097
3,025,156
3,029,142
3,034,889
3,049,423
3,052,536
3,052,537
3,053,650
3,057,717
3,063,829
3,063,830
3,068,093
84.4: 3,031,295
84.5: 3,022,158
3,022,159
3,039,866
3,062,641
3,067,025
3,069,255
86: 3,033,674
88: 3,031,296
92: 3,036,911
93: 3,038,796
97: 3,017,264
3,022,160
3,055,754
98: 3,022,161
107: 3,033,675
108: 3,061,424
109: 3,029,143
112: 3,028,233
115: 3,025,157
3,058,824
116: 3,053,651
118: 3,018,176
121: 3,029,144
3,058,825
122.7: 3,026,196
3,069,256
123: 3,041,163
3,042,512
3,055,755
3,055,756
124: 3,024,103
3,026,197
3,065,067
3,065,068
3,068,094
125: 3,023,098
3,044,871
3,070,438
126: 3,017,265
3,020,152
3,024,104
3,027,252
3,031,297
3,036,912
3,044,872
3,060,016
3,065,069
3,067,026
3,068,095
3,069,257
128: 3,017,266
128: 3,027,253
3,038,797
3,048,485
3,060,017
129: 3,020,153
3,021,210
3,030,204
3,063,831
130: 3,017,267
3,030,205
3,033,676
3,033,911
3,042,513
3,065,070
133.5: 3,024,105
3,043,681
134: 3,024,106
3,028,234
3,041,164
3,051,565
3,065,071
138: 3,020,154
3,032,412
3,037,857
3,063,832
140: 3,031,298
141: 3,019,101
147: 3,031,299
153: 3,019,102
3,039,867
3,054,671
154: 3,017,268
3,061,425
159: 3,017,269
3,063,833
161: 3,049,424
162: 3,025,158
3,062,642
3,067,027
165: 3,022,162
3,060,018
166: 3,045,582
168: 3,024,107
3,024,108
3,039,868
3,063,834
3,067,026
170: 3,021,211
3,024,109
3,067,029
171: 3,015,558
3,026,198
3,026,199
3,027,254
3,028,235
3,046,108
3,047,381
3,047,382
3,053,652
3,061,426
3,065,072
3,067,030
3,068,096
3,069,258
172: 3,057,718
174: 3,022,163
3,027,255
3,028,236
3,037,858
3,038,798
3,043,683
3,046,109
3,056,672
175.5: 3,049,425
3,052,538
3,061,427
3,063,835
3,063,259
176: 3,015,559
3,030,206
3,037,389
201: 3,047,383
206: 3,019,103
3,024,110
3,070,439
3,070,440
207: 3,031,560
208: 3,031,300
3,037,860
3,065,073
211: 3,053,653
3,053,654
3,067,032
3,069,260
213: 3,051,566
214: 3,051,567
223: 3,050,386
224: 3,026,200
3,063,836
226: 3,069,261

Class 76

4: 3,016,770

Class 76—Con.

13: 3,016,771
24: 3,045,509
25: 3,023,645
3,026,747
31: 3,023,646
3,024,670
3,038,355
36: 3,015,239
3,027,784
3,055,238
3,060,768
37: 3,020,783
38: 3,040,602
40: 3,066,552
43: 3,057,229
48: 3,022,684
63: 3,020,784
3,067,634
78: 3,029,663
82: 3,068,720
89.2: 3,028,769
101: 3,021,732
3,025,726
107: 3,017,789
3,020,785
3,025,727
3,036,478
3,041,894
3,043,165
3,046,815
3,046,816
3,048,060
3,052,139
3,059,506
108: 3,053,118
112: 3,034,378
3,034,379
3,063,310
113: 3,064,500

Class 77

2: 3,034,380
3,037,401
3,038,356
3,069,930
3: 3,020,786
3,066,553
4: 3,019,672
3,028,770
3,036,479
3,037,402
3,041,895
3,053,119
5: 3,037,403
3,043,166
3,045,510
3,049,030
3,068,721
6: 3,049,946
7: 3,019,673
3,044,321
3,046,817
3,065,654
3,068,722
13: 3,060,769
19: 3,057,230
22: 3,025,728
3,030,827
3,066,554
32.2: 3,023,647
3,034,381
3,040,603
3,063,311
32.3: 3,018,674
3,028,771
3,029,664
3,064,501
32.4: 3,051,023
33.5: 3,024,671
3,039,329
3,041,896
3,041,897
3,053,120
33.7: 3,024,672
34.4: 3,039,330
34.5: 3,037,404
3,037,405
3,051,024
3,068,723
34.7: 3,039,331
3,069,931
37: 3,030,828
3,068,724
38: 3,045,511
3,045,512
3,068,725
41: 3,068,726
55: 3,015,240
3,024,673
3,027,785
3,056,316
3,060,770
55: 3,064,502
56: 3,059,507
58: 3,015,241
3,018,575
3,019,674
3,021,733
3,024,674
3,025,729
3,027,786
3,028,772
3,030,829
3,037,406
3,041,898
3,044,322
3,044,323
3,060,771
3,064,503
3,065,655
3,067,635
3,067,636
3,067,637
3,068,727
3,069,932
59: 3,044,324
61: 3,059,508
62: 3,015,242
3,019,675
3,021,734
3,021,735
3,022,685
3,024,675
3,026,748
3,026,749
3,030,830
3,030,831
3,033,061
3,035,462
3,038,357
3,039,332
3,046,818
3,048,061
3,048,062
3,049,031
3,053,121
3,062,075
3,062,076
3,064,504
3,069,933
3,069,934
63: 3,064,505
3,069,935
64: 3,040,604
3,049,032
3,065,656
3,069,936
65: 3,055,239
66: 3,044,325
3,063,312
67: 3,051,025
68: 3,040,605
3,045,513
3,049,033
3,054,308
69: 3,033,062
70: 3,017,790
3,028,773
72: 3,067,638
73: 3,020,787
73. 5: 3,017,791
3,022,686
3,028,774
3,060,772
75: 3,045,514
3,069,937
77: 3,019,676

Class 78

1: 3,034,382
3,064,506
9: 3,048,063
3,059,509
3,064,507
13: 3,041,899
14: 3,049,034
20: 3,045,515
21: 3,028,775
3,044,326
3,059,510
22: 3,064,508
24: 3,066,555
36: 3,049,035
41: 3,053,122
42: 3,024,676
3,031,903
44: 3,043,167
45: 3,034,383
46: 3,022,687
3,025,730
3,027,787
3,029,665
3,057,231
47: 3,026,750
48: 3,030,832
48: 3,030,833
3,043,168
3,069,938
49: 3,052,140
3,053,123
60: 3,044,327
61: 3,066,556
82: 3,017,792
3,029,666
3,038,358
3,038,359
3,039,333
3,044,328
3,051,026
3,051,027
3,053,124
3,053,125
3,054,309
3,056,317
96: 3,025,731
97: 3,060,773
99: 3,030,834
103: 3,017,793
3,049,947

Class 79

5: 3,067,639

Class 80

5: 3,029,667
3,045,516
3,046,819
5.1: 3,024,677
3,055,240
6: 3,039,334
3,048,064
3,069,939
3,069,940
3,069,941
7: 3,048,065
9: 3,019,677
3,044,329
11: 3,029,668
13: 3,021,736
14: 3,019,678
3,030,835
16: 3,035,463
3,043,169
17: 3,066,557
20: 3,015,243
3,062,077
26: 3,033,063
31.1: 3,023,648
3,055,241
3,055,242
3,066,558
32: 3,018,676
3,049,036
35: 3,020,788
3,030,836
3,036,480
3,036,481
36: 3,016,772
3,043,170
38: 3,049,948
3,049,949
42: 3,069,942
48: 3,058,375
51: 3,035,464
3,058,376
52: 3,024,678
3,039,335
54: 3,029,669
56: 3,015,974
3,022,688
3,024,679
3,024,680
3,035,465
3,044,330
3,045,517
3,049,950
3,054,310
3,054,311
3,062,078
3,064,509
57: 3,055,243
59: 3,044,331
60: 3,021,737
3,044,332

Class 81

1: 3,023,649
3.1: 3,035,466
3,048,067
3.2: 3,037,407
3.3: 3,048,068
3.42: 3,037,408
3.6: 3,024,681
9.1: 3,034,384
9.1: 3,039,336
3,040,606
9.3: 3,027,788
3,067,640
9.5: 3,044,333
3,046,820
3,057,232
3,058,377
3,069,943
9.51: 3,019,679
3,044,334
13: 3,025,732
15: 3,021,738
3,023,650
3,028,776
3,029,670
3,030,837
3,030,838
3,031,904
3,034,385
3,038,360
3,039,337
3,041,900
3,049,951
3,055,244
3,057,233
3,059,511
3,063,313
3,063,314
3,069,944
15.7: 3,029,671
3,052,141
52.3: 3,015,244
3,029,672
3,030,839
3,054,312
52.35: 3,036,482
52.4: 3,016,773
3,018,677
3,020,789
3,024,682
53: 3,019,680
3,021,739
3,025,733
3,030,840
3,041,901
3,066,559
3,069,945
54: 3,014,975
3,016,774
3,017,794
55: 3,028,777
56: 3,041,902
57: 3,016,775
3,023,651
3,027,789
60: 3,023,652
61: 3,019,681
3,067,641
63.2: 3,019,682
71: 3,049,952
90: 3,025,734
3,043,171
3,063,315
91: 3,044,335
97: 3,059,512
112: 3,034,386
3,056,318
119: 3,020,790
3,059,513
121: 3,027,790
124.1: 3,063,316
125: 3,069,946
126: 3,015,245
129: 3,026,751
3,062,079
134: 3,039,338
164: 3,035,467
3,046,821
165: 3,022,689
3,023,653
3,024,683
3,069,947
167: 3,015,246
177: 3,039,339
3,039,340
3,068,728
179: 3,023,654
180: 3,016,776
185: 3,029,673
351: 3,051,028
361: 3,067,642

Class 82

1: 3,041,903
2: 3,022,690
3,043,172
3,057,234
2.7: 3,041,904
4: 3,023,655
5: 3,016,777
12: 3,026,752
3,064,510
14: 3,015,976
3,016,778
3,020,791
3,021,740
3,024,684
3,040,607
3,046,822
3,063,317
17: 3,024,685
18: 3,066,560
19: 3,057,235
3,066,561
20: 3,059,514
21: 3,056,319
3,068,729
3,069,948
24: 3,035,468
3,049,953
3,062,080
29: 3,028,778
30: 3,049,037
31: 3,053,127
38: Re.25,181
3,025,735
3,057,236
3,057,237
3,057,238
34: 3,038,361
36: 3,024,686
3,051,029
3,056,320
3,063,318
37: 3,043,173
38: 3,022,691
3,039,341
40: 3,054,313
44: 3,025,736
3,025,737
45: 3,037,409
48: 3,055,245
54: 3,052,142
59: 3,022,692
3,024,687
70.2: 3,025,738
71: 3,029,674
81: 3,043,174
100: 3,039,342
101: 3,018,678
3,035,469

Class 83

5: 3,059,515
6: 3,043,175
13: 3,064,511
24: 3,025,195
37: 3,037,410
38: 3,058,378
61: 3,015,977
68: 3,054,314
74: 3,036,483
3,055,246
3,066,562
76: 3,029,675
79: 3,062,081
81: 3,066,563
86: 3,031,905
94: 3,031,906
98: 3,060,774
100: 3,041,905
3,060,775
103: 3,060,776
105: 3,039,343
106: 3,069,949
109: 3,043,176
110: 3,053,128
3,056,321
112: 3,052,143
114: 3,033,064
123: 3,048,069
3,052,144
128: 3,063,319
129: 3,017,795
3,019,683
131: 3,033,065
136: 3,031,907
3,045,518
152: 3,037,411
154: 3,018,679
3,026,753
155: 3,024,688
157: 3,045,519
165: 3,039,344
167: 3,060,777
168: 3,034,387
3,035,470
3,040,608
3,069,950
169: 3,022,693
3,022,694
174: 3,064,512
175: 3,046,823
3,066,564
177: 3,027,791
177: 3,041,906
184: 3,068,730
3,069,951
188: 3,026,754
190: 3,019,684
191: 3,033,066
198: 3,025,739
201: 3,045,520
3,049,954
3,059,516
206: 3,033,067
231: 3,048,070
236: 3,053,129
242: 3,016,779
248: 3,036,484
3,036,485
263: 3,017,796
264: 3,039,345
282: 3,025,740
287: 3,040,609
298: 3,028,779
301: 3,056,322
305: 3,068,731
3,068,732
310: 3,069,952
312: 3,043,177
314: 3,058,379
317: 3,037,412
319: 3,044,336
323: 3,054,315
324: 3,015,978
326: 3,053,130
332: 3,045,643
337: 3,057,239
342: 3,056,323
345: 3,064,513
349: 3,017,797
355: 3,060,778
371: 3,068,733
372: 3,044,337
380: 3,026,755
382: 3,029,676
390: 3,054,316
397: 3,063,320
399: 3,054,317
400: 3,066,565
402: 3,067,644
410: 3,058,380
411: 3,062,082
412: 3,057,240
417: 3,016,780
418: 3,069,953
422: 3,049,955
3,056,324
423: 3,039,345
424: 3,051,031
425: 3,055,247
431: 3,025,741
444: 3,034,388
449: 3,035,471
451: 3,065,657
456: 3,031,908
461: 3,034,389
467: 3,043,178
3,049,956
471: 3,055,248
482: 3,041,907
487: 3,056,325
501: 3,055,249
510: 3,057,241
513: 3,040,610
525: 3,052,145
532: 3,045,521
552: 3,049,038
559: 3,057,242
564: 3,030,842
568: 3,041,908
571: 3,064,514
575: 3,055,250
577: 3,023,656
578: 3,063,321
582: 3,060,779
3,068,734
587: 3,055,251
3,063,322
590: 3,060,780
618: 3,021,741
620: 3,029,677
622: 3,063,323
623: 3,066,566
633: 3,016,781
636: 3,040,611
637: 3,062,083
649: 3,044,338
651: 3,060,781
652: 3,049,039
658: 3,046,824
3,060,782
660: 3,052,146
671: 3,036,486
672: 3,030,841
673: 3,065,658
698: 3,027,792
3,027,793
698: 3,046,825
700: 3,021,742

Class 84

1: 3,064,515
1.01: 3,026,756
3,058,381
3,063,324
1.08: 3,039,346
1.09: 3,049,957
1.11: 3,046,826
3,048,071
1.14: 3,038,363
3,041,909
3,069,954
1.15: 3,034,390
1.16: 3,018,680
3,035,472
3,049,958
3,066,567
3,069,955
1.17: 3,040,612
3,054,318
3,068,735
1.18: 3,015,979
3,022,695
3,023,657
1.19: 3,026,757
3,051,032
3,056,326
1.22: 3,041,910
3,049,040
1.24: 3,037,413
3,037,414
3,038,364
3,048,072
3,049,959
3,069,956
1.25: 3,026,758
3,031,909
3,040,613
3,054,319
3,056,327
3,069,957
3,069,958
1.26: 3,022,696
3,038,365
3,039,347
1.27: 3,045,522
53: 3,033,068
94: 3,041,911
95: 3,047,415
170: 3,030,843
171: Re.25,278
3,052,147
172: 3,049,960
177: 3,018,681
192: 3,034,391
194: 3,060,783
205: 3,048,073
217: 3,056,328
240: 3,040,614
3,048,074
249: 3,058,382
265: 3,051,033
273: 3,015,247
306: 3,023,658
313: 3,056,329
327: 3,037,416
332: 3,063,325
335: 3,024,689
337: 3,058,383
348: 3,018,682
351: 3,034,392
3,063,326
3,063,327
355: 3,034,393
376: 3,029,678
3,059,517
3,067,645
377: 3,015,980
380: 3,068,736
328: 3,015,981
3,017,798
3,035,473
3,064,516
383: 3,057,243
384: 3,030,845
3,062,084
387: 3,024,690
388: 3,030,846
392: 3,044,339
393: 3,022,697
402: 3,063,328
404: 3,028,780
3,049,961
3,055,252
3,057,244
406: 3,027,794
411: 3,019,685
3,026,759
3,029,679
3,055,253
419: 3,021,743

421: 3,021,744
422: 3,030,847
3,055,254
423: 3,022,698
3,026,760
3,057,245
3,060,784
444: 3,064,517
445: 3,023,659
3,030,848
453: 3,016,782
3,031,010
454: 3,058,384
464: 3,016,783
3,018,683
3,048,075
3,062,085
465: 3,051,034
470: 3,029,680
477: 3,069,959
487: 3,064,518

Class 85

1: 3,018,684
3,022,699
3,041,912
3,041,913
3,069,960
3,069,961
2.4: 3,017,799
3,017,800
3,021,745
3,022,700
3,022,701
3,025,742
3,026,761
3,049,041
3,063,329
2.8: 3,054,320
3,065,659
5: 3,046,827
3,052,148
3,057,246
3,065,660
3,068,737
7: 3,036,487
3,053,131
3,066,568
8.3: 3,015,248
8.8: 3,069,962
9: 3,054,321
3,060,785
10: 3,019,686
3,021,746
3,063,330
11: 3,058,385
13: 3,049,042
3,052,149
3,068,738
32: 3,020,786
33: 3,038,366
3,060,787
36: 3,018,685
3,031,911
3,046,828
3,058,386
3,069,963
40: 3,030,849
3,030,850
3,044,340
3,053,046
3,055,255
3,065,661
41: 3,064,662
45: 3,028,781
47: 3,016,784
3,044,341
3,045,523
49: 3,023,660
53: 3,027,795
61: 3,027,796
62: 3,021,747

Class 86

1: 3,019,687
3,021,748
3,029,681
3,034,393
3,035,474
3,037,417
3,041,914
3,044,342
3,045,524
3,046,829
3,048,076
3,049,043
20: 3,031,912
3,033,069
3,040,615
23: 3,019,688
3,054,322
24: 3,049,044
25: 3,033,132
3,057,247
26: 3,036,488
27: 3,058,387
3,060,788
28: 3,033,070
39: 3,036,489
40: 3,048,077
44: 3,025,743
47: 3,045,525

Class 87

1: 3,035,475
3,048,078
2: 3,059,518
6: 3,030,851
3,036,490
8: 3,026,762
9: 3,035,476
12: 3,039,348
3,041,915
22: 3,038,367
33: 3,053,133
56: 3,045,526

Class 88

1: 3,015,249
3,015,982
3,016,785
3,019,689
3,019,690
3,019,691
3,020,792
3,021,749
3,022,702
3,023,520
3,023,661
3,023,662
3,026,763
3,030,852
3,033,071
3,035,477
3,037,418
3,037,419
3,038,368
3,039,349
3,039,350
3,039,351
3,040,616
3,041,916
3,041,917
3,043,179
3,045,527
3,045,528
3,045,529
3,048,079
3,049,962
3,051,035
3,051,036
3,052,150
3,052,151
3,052,152
3,053,134
3,053,135
3,055,256
3,055,257
3,057,248
3,059,519
3,059,520
3,059,521
3,060,789
3,063,331
3,064,519
3,066,569
3,068,739
3,068,740
1.5: 3,024,691
3,033,072
3,034,394
3,041,918
3,043,180
3,043,181
3,053,136
3,057,249
3,062,086
2.2: 3,057,250
2.3: 3,044,343
2.4: 3,016,786
3,027,797
3,031,913
3,039,352
3,041,919
3,044,344
3,049,963
3,059,522
3,063,332
2.7: 3,022,703
3,046,830
14: 3,015,250
3,015,983
3,015,984
3,015,985
3,016,787
14: 3,016,788
3,016,789
3,017,801
3,017,802
3,019,692
3,019,693
3,019,694
3,020,793
3,020,794
3,020,795
3,021,750
3,022,704
3,023,663
3,023,664
3,024,692
3,024,693
3,025,744
3,025,745
3,025,746
3,025,747
3,025,748
3,025,749
3,026,764
3,027,798
3,027,799
3,028,782
3,028,783
3,029,682
3,030,853
3,030,854
3,031,914
3,031,915
3,031,916
3,031,917
3,031,918
3,031,919
3,033,073
3,034,395
3,034,396
3,034,397
3,034,398
3,035,478
3,035,479
3,035,480
3,035,481
3,035,482
3,036,491
3,036,492
3,036,493
3,037,420
3,037,421
3,038,369
3,039,353
3,039,354
3,039,355
3,040,617
3,041,920
3,041,921
3,041,922
3,041,923
3,043,182
3,043,183
3,043,184
3,044,345
3,045,530
3,045,531
3,045,532
3,045,533
3,045,534
3,045,535
3,046,831
3,048,080
3,049,045
3,049,046
3,049,047
3,049,964
3,051,037
3,052,153
3,052,154
3,053,137
3,053,138
3,053,139
3,054,323
3,055,258
3,055,259
3,055,260
3,055,261
3,055,262
3,055,263
3,055,264
3,056,330
3,056,331
3,058,388
3,059,523
3,059,524
3,060,790
3,060,791
3,060,792
3,060,793
3,062,087
3,062,088
3,062,089
3,064,520
3,065,663
14: 3,065,664
3,065,665
3,066,570
3,067,646
3,068,741
3,068,742
3,068,743
3,069,964
3,069,965
3,069,966
3,069,967
14.8: 3,060,794
15: 3,020,796
3,039,356
3,066,571
16: 3,016,790
3,017,803
3,019,695
3,019,696
3,019,697
3,023,665
3,027,800
3,040,618
3,041,924
3,043,185
3,043,186
3,044,346
3,044,347
3,045,536
3,046,832
3,049,048
3,053,140
3,054,324
3,057,251
3,059,525
3,059,526
3,062,090
3,062,091
3,065,666
3,068,744
16.2: 3,022,705
3,025,750
3,025,751
3,029,683
3,029,684
3,030,855
3,041,925
3,045,537
3,048,081
3,049,965
16.6: 3,019,698
3,023,666
3,029,685
3,031,920
3,038,370
3,055,265
3,060,795
3,063,333
3,063,334
16.8: 3,049,049
3,053,141
3,057,252
17: 3,017,804
3,025,752
3,029,686
3,029,687
3,033,074
3,038,371
3,041,926
3,043,187
3,045,538
3,046,833
3,048,082
3,059,528
18.2: 3,064,522
18.4: 3,025,753
3,063,335
18.7: 3,034,399
19.3: 3,015,986
3,029,688
3,069,968
19.5: 3,043,188
20: 3,019,699
3,021,751
3,025,754
3,025,755
3,035,483
3,041,927
3,044,348
3,067,647
3,067,648
3,068,745
22.5: 3,044,349
3,051,038
3,057,253
3,068,746
23: 3,019,700
3,024,695
3,028,784
3,029,689
23: 3,031,921
3,033,075
3,041,928
3,041,929
3,049,050
3,057,254
3,058,389
3,062,092
3,063,336
3,067,649
3,069,969
24: 3,016,791
3,016,792
3,053,145
3,056,333
27: 3,018,686
3,044,353
28: 3,015,251
3,022,707
3,023,669
3,023,670
3,025,759
3,025,760
3,026,769
3,028,789
3,028,790
3,029,692
3,029,693
3,033,077
3,033,078
3,038,373
3,046,836
3,048,083
3,049,052
3,053,146
3,056,334
3,057,255
3,058,390
3,059,530
3,062,097
3,063,338
3,067,650
28.9: 3,016,794
3,026,770
3,037,424
3,063,339
28.91: 3,054,325
28.93: 3,057,256
29: 3,030,857
3,039,358
31: 3,027,802
32: 3,021,752
3,028,791
3,028,792
3,051,045
3,058,391
3,064,526
33: 3,049,972
3,051,046
34: 3,015,252
3,020,802
3,033,079
3,062,098
36: 3,051,047
3,019,705
3,019,706
3,019,707
3,019,708
3,029,694
3,038,374
3,052,138
3,060,801
3,064,527
3,064,528
3,064,529
3,065,668
40: 3,016,795
3,029,695
3,031,924
3,035,486
3,044,354
3,046,837
3,062,099
3,065,669
3,068,750
41: 3,015,987
3,016,796
3,017,806
3,021,753
3,029,696
3,030,858
3,034,401
3,038,375
3,040,623
3,045,543
3,045,544
3,049,053
3,052,159
3,058,392
3,059,531
3,060,802
3,066,573
43: 3,016,797
47: 3,025,761
3,060,803
47: 3,068,751
48: 3,043,191
3,049,973
51: 3,038,376
52: 3,018,687
3,038,377
3,052,160
3,052,161
3,055,267
53: 3,025,762
3,029,697
3,031,925
3,034,402
3,049,974
3,060,804
3,064,530
3,066,574
54: 3,020,803
3,031,926
3,063,340
54.5: Re.25,286
3,027,803
3,030,859
3,031,927
3,034,403
3,037,425
3,064,531
56: 3,027,804
57: 3,015,988
3,016,798
3,016,799
3,018,688
3,018,689
3,020,804
3,022,708
3,023,671
3,023,672
3,023,673
3,024,697
3,024,698
3,027,805
3,028,793
3,029,698
3,029,699
3,029,700
3,030,860
3,030,861
3,030,862
3,030,863
3,033,080
3,033,081
3,033,082
3,034,404
3,035,487
3,035,488
3,035,489
3,035,490
3,036,498
3,036,499
3,037,426
3,038,378
3,038,379
3,038,380
3,039,359
3,039,360
3,039,361
3,040,624
3,041,934
3,041,935
3,043,192
3,043,193
3,043,194
3,044,355
3,044,356
3,044,357
3,045,545
3,045,546
3,045,547
3,045,548
3,045,549
3,045,550
3,046,838
3,049,054
3,049,975
3,051,048
3,051,049
3,051,050
3,051,051
3,051,052
3,051,053
3,054,326
3,054,327
3,057,257
3,057,258
3,057,259
3,057,260
3,059,532
3,059,533
3,059,534
3,059,535
3,059,536
3,060,805
3,060,806

Class 88—Con.

57: 3,062,100
3,062,101
3,062,102
3,063,341
3,064,532
3,064,533
3,065,670
3,065,671
3,066,575
3,068,752
3,069,972
57.5: 3,068,753
3,068,754
58: 3,059,537
61: 3,016,800
3,016,801
3,020,805
3,021,754
3,024,699
3,024,700
3,025,763
3,027,806
3,034,405
3,035,491
3,035,492
3,040,625
3,041,936
3,044,358
3,059,538
3,060,807
3,066,576
3,069,973
65: 3,015,989
3,024,701
3,046,839
3,051,054
3,053,147
3,058,393
3,060,808
3,069,974
68: 3,040,626
70: 3,033,083
3,043,195
72: 3,020,806
73: 3,054,328
3,058,394
74: Re.25,227
3,031,928
77: 3,026,771
3,029,701
3,059,539
78: 3,029,702
79: 3,021,755
3,066,577
80: 3,024,702
3,038,381
81: 3,051,055
3,057,261
82: 3,025,764
3,034,406
3,043,196
84: 3,019,709
3,022,709
3,040,627
3,064,534
86: 3,021,756
3,044,359
3,058,395
87: 3,028,794
3,048,084
89: 3,019,710
93: 3,027,807
3,046,840
3,057,262
3,063,342
94: 3,064,535
96: 3,015,990
3,035,493
97: 3,018,690
3,058,396
3,063,343
98: 3,021,757
3,031,929
3,045,551
3,046,841
3,059,540
3,063,344
3,064,536
104: 3,031,930
105: 3,049,055
106: 3,015,253
3,039,362
107: 3,062,103
166: 3,024,694

Class 89

1: 3,031,931
3,040,628
3,044,360
3,044,361
3,048,085
1: 3,049,056
3,054,329
3,055,268
3,057,263
3,068,755
1.5: 3,018,691
3,021,758
3,021,759
3,026,772
3,027,808
3,029,703
3,033,084
3,055,269
3,056,335
3,063,345
3,065,672
3,068,756
1.7: 3,015,991
3,015,992
3,018,692
3,021,760
3,024,703
3,026,773
3,026,774
3,026,775
3,027,809
3,029,704
3,030,864
3,030,865
3,031,932
3,035,494
3,038,382
3,038,383
3,039,363
3,040,629
3,041,937
3,043,197
3,044,362
3,045,552
3,048,086
3,049,976
3,054,330
3,059,541
3,059,542
3,059,543
3,064,537
3,064,538
3,065,673
3,065,674
3,069,975
6: 3,018,693
6.5: 3,052,162
8: 3,031,933
3,044,363
3,056,336
12: 3,017,807
14: 3,034,407
16: 3,025,765
17: 3,029,705
27: 3,044,364
3,058,397
28: 3,038,384
33: 3,017,808
3,021,761
3,021,762
3,029,706
3,035,495
3,039,364
3,043,198
3,045,553
3,046,842
3,049,057
3,060,809
35: 3,025,766
3,026,776
3,031,934
36: 3,024,704
3,068,757
37: 3,027,810
3,033,085
3,041,938
3,045,554
3,046,843
37.5: 3,064,539
40: 3,016,802
3,023,674
41: 3,015,254
3,019,711
3,048,087
45: 3,037,427
47: 3,024,705
3,029,707
126: 3,041,939
130: 3,039,365
131: 3,015,993
3,029,708
132: 3,051,056
134: 3,029,709
138: 3,039,366
140: 3,021,763
142: 3,045,555
145: 3,027,811
3,060,810
149: 3,026,777
154: 3,049,977
167: 3,055,270
159: 3,018,694
169: 3,058,398
190: 3,036,500
191: 3,045,556
3,051,057
3,058,399
3,069,976
193: 3,020,807
3,024,706
3,036,501
3,038,400

Class 90

1: 3,021,764
1.4: 3,054,331
3,068,758
1.6: 3,059,544
3,060,811
3,068,759
3,069,977
3: 3,031,038
4: 3,030,866
3,045,557
3,046,844
3,049,978
3,055,271
3,059,545
3,059,546
5: 3,020,808
3,044,365
7: 3,021,765
3,024,707
9.4: 3,054,332
10: 3,053,148
11: 3,016,803
3,019,712
3,023,675
3,027,812
3,034,408
3,038,385
3,038,386
3,040,630
3,045,845
3,055,272
3,062,104
3,066,578
11.52: 3,063,346
11.62: 3,037,428
12: 3,040,631
3,044,366
3,051,059
3,067,651
13.05: 3,033,149
13.1: 3,023,676
14: 3,035,496
3,041,940
3,044,367
3,064,540
15: 3,015,994
3,016,804
3,018,695
3,026,778
3,027,813
3,060,812
16: 3,018,696
3,018,697
3,018,698
3,029,710
3,037,429
3,044,368
3,060,813
17: 3,023,677
3,037,430
18: 3,051,060
20: 3,018,699
21: 3,024,708
22: 3,055,273
24: 3,015,995
3,018,700
3,049,058
24.3: 3,027,814
3,055,274
53: 3,040,632
56: 3,054,333
63: 3,057,264
79: Re.25,115
92: 3,046,846

Class 93

1: 3,023,678
3,025,767
3,028,795
3,035,497
3,039,367
3,045,558
3,052,163
3,052,164
3,058,401
3,060,814
3,064,541
1: 3,067,652
1.1: 3,015,255
8: 3,015,996
3,021,766
3,023,679
3,034,409
3,043,199
3,045,559
3,045,560
3,053,150
3,058,402
3,058,403
12: 3,028,796
3,041,941
3,059,547
20: 3,059,548
3,059,549
29: 3,059,550
35: 3,016,806
3,021,767
3,025,768
3,040,633
3,044,369
3,046,847
3,060,815
3,069,978
36: 3,017,809
3,018,701
3,029,711
3,030,867
3,048,088
3,055,275
3,059,551
36.01: 3,041,942
3,065,675
36.2: 3,065,676
36.5: 3,019,713
3,065,677
36.6: 3,049,059
37: 3,015,256
3,038,387
3,049,060
3,069,979
39.1: Re.25,302
3,026,779
3,057,265
3,065,678
3,067,653
39.2: 3,039,368
39.3: 3,049,979
3,063,347
41: 3,041,943
3,046,848
3,049,061
3,057,266
44.1: 3,018,702
3,021,768
3,025,769
3,064,542
49: 3,016,807
3,031,935
3,039,369
3,039,370
3,041,944
3,044,370
3,052,165
3,055,276
3,068,760
3,068,761
51: 3,023,680
3,024,709
3,028,797
3,029,712
3,030,868
3,031,936
3,038,388
3,038,389
3,038,390
3,046,849
3,053,151
3,053,152
3,056,337
3,062,105
3,065,679
3,067,654
53: 3,016,808
3,024,710
3,027,815
3,030,869
3,037,431
3,040,634
3,040,635
3,044,371
3,053,153
3,056,338
3,057,267
3,062,106
3,064,543
3,066,579
54: 3,038,391
3,045,561
55.1: 3,028,798
3,039,371
55.1: 3,069,980
56: 3,069,981
58: 3,063,349
58.1: 3,027,816
58.2: 3,031,937
3,045,562
3,053,154
3,059,552
3,060,816
58.3: 3,020,809
3,039,372
3,053,155
61: 3,037,432
63: 3,025,770
3,069,982
77: 3,035,498
3,039,373
80: 3,044,372
3,051,061
82: 3,045,563
3,056,339
84: 3,055,277
88: 3,022,711
93: 3,020,810
3,025,771
3,027,817
3,057,268
94: 3,036,502
3,036,503
3,055,278
3,064,544

Class 94

1: 3,046,850
3,049,062
1.5: 3,029,713
3,030,870
3,040,636
3,046,851
3,049,980
3: 3,020,811
3,024,711
3,066,580
3,067,655
4: 3,025,772
3,038,392
7: 3,022,712
8: 3,033,086
3,033,087
3,040,637
3,045,564
3,066,581
9: 3,038,393
11: 3,038,394
17: 3,067,269
18: 3,018,703
3,023,681
3,038,395
3,045,565
3,055,279
3,059,553
3,060,817
3,068,763
19: 3,025,159
22: 3,033,088
3,043,200
3,057,270
3,068,764
23: 3,025,773
3,044,373
24: 3,022,713
30: 3,024,712
3,046,852
3,057,271
3,057,272
31: 3,037,433
3,065,680
33: 3,038,396
34: 3,025,774
3,046,853
39: 3,020,812
3,020,813
3,038,397
3,045,566
3,066,582
42: 3,055,280
44: 3,018,704
3,025,780
3,029,714
3,046,854
3,057,273
45: 3,015,257
3,039,374
3,046,855
3,051,062
3,057,274
3,062,107
3,066,583
3,066,584
3,067,656
46: Re.25,275
3,015,258
3,015,259
46: 3,015,260
3,015,261
3,016,809
3,029,715
3,029,716
3,031,938
3,034,410
3,035,499
3,036,504
3,041,945
3,041,946
3,043,201
3,053,156
3,054,334
3,058,404
3,069,985
48: 3,017,810
3,046,856
3,052,166
49: 3,067,657
50: 3,015,997
3,025,775
3,026,781
3,040,638
3,048,089
3,049,063
3,051,063
3,052,167
3,063,157
3,060,818
3,066,585
3,067,658
3,068,765
3,069,984
51: 3,068,766

Class 95

1: 3,035,500
3,060,819
3,063,350
3,065,681
1.1: 3,021,769
3,029,717
3,046,857
3,067,659
1.7: 3,019,714
3,028,799
3,057,275
3,058,405
3,062,108
3,062,109
3,062,110
3,063,351
4.5: Re.25,128
3,017,811
3,041,947
3,044,374
3,045,567
3,054,335
3,058,406
3,059,554
3,064,545
3,067,660
3,067,661
3,068,767
10: 3,015,998
3,016,810
3,016,811
3,017,812
3,017,813
3,017,814
3,018,705
3,018,706
3,021,771
3,022,714
3,023,682
3,023,683
3,023,684
3,024,713
3,025,776
3,025,777
3,026,782
3,026,783
3,027,818
3,029,718
3,029,719
3,030,871
3,031,939
3,033,089
3,033,090
3,034,411
3,035,515
3,037,434
3,037,435
3,037,436
3,037,437
3,038,398
3,038,399
3,040,639
3,041,948
3,041,949
3,041,950
3,041,951
10: 3,043,202
3,043,203
3,044,375
3,044,376
3,044,377
3,045,568
3,045,569
3,045,570
3,046,858
3,046,859
3,046,860
3,048,090
3,048,091
3,051,064
3,051,065
3,052,168
3,054,336
3,054,337
3,056,340
3,057,276
3,059,555
3,060,820
3,060,821
3,060,822
3,060,823
3,062,111
3,062,112
3,062,113
3,063,352
3,063,353
3,063,354
3,063,355
3,065,682
3,065,683
3,066,586
3,066,587
3,068,768
3,068,769
3,068,770
3,069,985
3,069,986
11: 3,015,999
3,016,812
3,019,715
3,026,784
3,036,506
3,040,640
3,045,571
3,066,588
3,069,986
11.5: 3,018,707
3,020,814
3,037,438
3,039,375
3,040,641
3,051,066
3,067,662
12: 3,016,000
3,062,114
12.5: 3,060,824
3,066,589
13: Re.25,167
3,033,091
3,044,378
3,046,861
3,062,115
3,068,771
14: 3,040,642
3,041,952
15: 3,016,001
16: 3,044,379
18: 3,018,708
3,045,572
3,045,573
30: 3,021,772
31: 3,018,709
3,021,773
3,034,412
3,036,507
3,057,277
3,058,407
3,059,556
3,062,116
3,062,117
34: 3,049,981
36: 3,069,987
40: 3,053,158
42: 3,020,815
3,027,819
3,052,169
3,052,170
3,062,118
44: 3,017,815
3,024,714
3,027,820
3,029,720
3,035,501
3,044,380
3,057,278
3,067,663
3,067,664
3,068,772
3,069,988
45: 3,021,774
3,045,574
3,046,862

45: 3,048,092
3,052,171
3,054,338
51: 3,060,825
63: 3,049,064
3,052,172
3,059,557
64: 3,021,770
55: 3,023,685
3,049,982
57: 3,029,721
3,066,590
58: 3,020,816
59: 3,033,092
3,055,281
3,056,341
3,056,342
62: 3,022,715
63: 3,035,502
3,044,381
3,044,382
3,069,989
64: 3,018,710
3,019,716
3,024,715
3,026,785
3,031,940
3,033,093
3,033,094
3,035,503
3,037,439
3,037,440
3,039,376
3,040,643
3,040,644
3,044,383
3,044,384
3,044,385
3,045,575
9: 3,046,863
3,049,063
3,049,983
3,051,067
3,051,068
3,052,173
3,053,159
3,055,282
3,057,279
3,057,280
3,058,408
3,059,558
3,059,559
3,060,826
3,062,119
3,062,120
3,066,591
3,067,665
3,068,773
72: 3,053,160
73: Re.25,160
3,016,002
3,017,816
3,020,817
3,051,069
3,052,174
3,053,161
3,057,281
3,064,546
3,067,666
75: 3,024,716
3,025,778
3,031,941
3,033,095
3,034,413
3,046,864
3,054,339
3,058,409
3,062,121
3,069,990
76: 3,043,204
3,060,827
3,066,592
77: 3,048,093
77.5: 3,022,716
3,031,942
3,044,386
3,049,066
3,058,410
3,060,828
3,066,593
86: 3,017,817
3,037,441
3,043,205
3,055,283
3,064,547
89: 3,020,818
3,027,021
3,027,822
3,054,340
3,057,282
3,059,560
3,060,829
3,062,122
3,062,123
3,068,774

90: 3,060,830
94: 3,023,686
3,025,779
3,041,953
3,043,206
3,062,124
95: 3,067,667
96: 3,019,717
97: 3,067,668
100: 3,054,341

Class 96

1: 3,025,160
3,037,861
3,038,799
3,041,165
3,041,166
3,041,167
3,041,168
3,041,169
3,043,684
3,043,685
3,043,686
3,047,384
3,051,568
3,051,569
3,052,539
3,052,540
3,057,719
3,057,720
3,060,019
3,060,020
3,060,021
3,066,023
3: 3,032,413
3,034,890
3,039,869
9: 3,028,237
3,047,385
20: 3,053,655
22: 3,068,097
27: 3,031,301
3,035,912
3,035,913
3,052,541
28: 3,043,687
3,043,688
3,057,721
3,060,022
3,060,023
3,060,024
3,060,025
3,060,026
3,067,033
29: 3,015,561
3,015,562
3,017,270
3,019,104
3,020,155
3,021,212
3,030,207
3,033,677
3,042,514
3,043,689
3,043,690
3,043,691
3,043,692
3,044,873
3,047,386
3,048,486
3,053,656
3,053,657
3,061,428
3,062,643
3,063,837
3,065,074
3,065,075
3,068,098
3,069,262
3,069,263
3,069,264
30: 3,022,164
33: 3,019,105
3,046,110
3,046,111
3,046,112
3,046,113
3,046,114
3,046,115
3,046,116
3,046,117
3,046,118
3,046,119
3,046,120
3,046,121
3,046,122
3,046,123
3,046,124
3,050,357
3,050,388
3,050,389
3,053,658
3,061,429

33: 3,061,430
3,062,644
35: 3,016,297
3,020,156
3,023,099
3,023,100
3,025,161
3,029,145
3,030,208
3,038,800
3,046,125
3,046,126
3,046,127
3,050,390
3,054,672
3,060,027
3,061,431
3,067,034
3,069,265
3,070,441
3,070,442
36: 3,031,302
3,043,693
38: 3,024,111
43: 3,022,165
45: 3,030,209
3,031,303
48: 3,019,106
3,042,515
3,042,516
3,042,517
3,042,518
3,042,519
3,047,387
3,055,758
3,056,673
3,069,366
49: 3,027,256
3,029,146
3,046,128
3,052,542
50: 3,022,162
53: 3,028,238
55: 3,034,891
3,034,892
3,035,914
3,043,694
3,046,129
3,047,388
3,056,674
3,056,675
3,061,432
3,062,645
60: 3,034,893
3,042,520
3,061,433
61: 3,022,166
3,022,167
3,050,391
3,050,392
63: 3,033,678
3,068,099
66: 3,019,107
3,019,108
3,022,168
3,038,801
3,041,170
3,042,521
3,046,130
3,047,389
3,060,028
3,061,434
3,062,646
3,062,647
3,068,100
67: 3,021,213
3,022,169
3,026,201
3,036,913
3,044,874
3,051,570
3,058,826
3,063,838
3,063,267
68: 3,069,268
73: 3,038,802
75: 3,016,298
3,030,210
3,037,862
3,046,131
3,053,659
3,061,435
76: 3,053,660
3,062,648
77: 3,060,029
78: 3,022,170
79: 3,037,863
82: 3,047,390
83: 3,043,695
3,057,722
84: 3,018,177
3,022,171
3,036,914
3,036,915

84: 3,036,916
3,048,487
3,050,393
85: 3,021,214
3,039,871
3,047,391
86: 3,028,239
3,070,443
87: 3,023,101
3,025,163
3,033,679
3,035,915
3,035,916
3,039,870
3,042,522
3,042,523
3,053,661
3,053,662
3,054,673
3,056,676
3,062,649
90: 3,062,650
91: 3,028,240
3,032,414
3,039,872
92: 3,038,803
94: 3,018,178
3,026,202
3,031,304
3,033,680
3,038,804
3,041,171
3,042,524
3,061,436
3,068,101
95: 3,062,651
99: 3,034,894
3,057,723
3,062,652
100: 3,021,215
3,038,805
3,050,394
3,062,653
101: 3,023,102
3,035,917
3,050,395
102: 3,033,681
105: 3,044,875
107: 3,017,271
3,026,203
3,052,544
3,068,102
108: 3,033,682
3,039,873
3,043,696
3,046,132
3,046,133
3,046,134
3,046,135
3,047,392
3,057,724
3,061,437
3,062,654
109: 3,023,103
3,043,697
3,047,393
3,057,725
111: 3,047,394
3,058,827
114: 3,022,172
3,043,698
3,046,136
3,067,035
115: 3,041,172
3,046,137

Class 98

1: 3,016,813
3,039,377
1.5: 3,051,070
3,053,152
3,060,831
2: 3,018,711
3,028,800
3,034,414
3,046,865
3,052,175
3,053,163
3,057,283
3,059,561
3,059,562
6: 3,057,284
13: 3,031,943
31: 3,023,687
3,049,067
32: 3,036,508
33: 3,033,096
3,034,415
3,041,954
3,048,094
3,052,176

36: 3,018,712
3,021,775
3,023,688
3,023,689
3,038,400
3,049,984
3,059,563
3,068,775
37: 3,018,713
3,024,717
3,051,071
3,057,285
3,062,125
38: 3,020,819
3,059,564
40: Re.25,216
3,020,820
3,023,690
3,029,722
3,030,872
3,031,944
3,033,097
3,035,504
3,039,378
3,040,645
3,045,576
3,045,577
3,045,578
3,046,866
3,051,072
3,051,073
3,053,164
3,058,411
3,060,832
3,063,356
3,063,357
3,063,684
3,065,685
3,065,686
3,067,669
3,068,776
3,069,991
41: 3,020,821
3,026,787
42: 3,058,412
3,066,594
43: 3,016,003
3,036,509
3,040,646
3,045,579
3,053,165
3,063,358
3,064,548
46: 3,041,955
49: 3,064,549
54: 3,036,510
55: 3,041,956
56: 3,033,098
3,054,342
3,057,286
59: 3,022,717
60: 3,035,505
3,066,595
66: 3,018,714
70: 3,035,506
71: 3,036,511
72: 3,066,596
82: 3,017,818
3,046,867
84: 3,049,068
88: 3,027,823
3,034,416
94: 3,019,718
3,030,873
95: 3,027,824
98: 3,046,868
99: 3,048,095
106: 3,069,992
107: 3,045,580
110: 3,031,945
3,044,387
3,049,985
3,055,284
114: 3,064,550
115: 3,021,776
3,021,777
3,022,718
3,025,780
3,026,788
3,026,789
3,031,946
3,035,507
3,041,957
3,049,069
3,055,285
3,057,287
3,060,833
3,064,551
3,065,687
116: 3,067,670
119: 3,057,288
3,059,565
3,064,552
3,069,993

121: 3,020,822
3,021,778
3,056,343
3,060,834

Class 99

1: 3,023,104
3,035,918
3,052,545
2: 3,015,563
3,015,564
3,017,272
3,019,109
3,020,157
3,020,158
3,021,216
3,021,217
3,023,105
3,024,112
3,033,683
3,035,919
3,036,917
3,038,806
3,039,874
3,039,875
3,041,173
3,042,525
3,044,876
3,051,571
3,051,572
3,063,839
3,066,024
3,069,269
4: 3,020,159
3,051,573
6: 3,033,684
7: Re.25,138
3,017,273
3,032,415
3,041,174
8: 3,035,920
3,044,877
3,050,396
9: 3,033,685
14: 3,020,160
3,030,211
3,047,395
3,062,655
15: 3,060,030
18: 3,063,840
20: 3,036,918
21: 3,057,241
23: 3,058,828
24: 3,027,257
26: 3,028,242
3,032,416
3,053,663
3,056,677
28: 3,022,173
3,044,878
30: 3,050,397
35: 3,066,025
36: 3,032,417
3,041,175
3,061,438
40: 3,052,546
41: 3,062,656
47: 3,050,398
48: 3,026,204
3,046,138
3,048,488
3,051,574
3,052,547
3,052,548
3,053,664
3,055,757
3,061,439
49: 3,063,841
50.5: 3,044,879
51: 3,022,174
3,034,895
3,048,489
52: 3,039,876
3,057,726
3,066,026
54: 3,020,161
55: 3,054,674
56: 3,042,526
3,054,675
3,057,727
3,065,076
59: 3,025,164
3,025,165
60: 3,066,027
3,066,028
65: 3,051,575
71: 3,021,218
3,035,921
3,035,922
77: 3,047,396
3,065,077
77.1: 3,047,397
3,053,665

77.1: 3,057,728
3,057,729
78: 3,016,299
3,016,300
3,023,106
80: 3,020,162
3,031,305
3,036,919
3,054,676
3,062,657
3,065,078
81: 3,027,258
3,039,877
82: 3,054,677
83: 3,038,807
85: 3,043,699
3,061,440
86: 3,034,896
3,056,678
3,057,730
3,065,079
90: 3,015,565
3,021,219
3,031,306
3,032,418
3,041,176
3,053,666
3,060,031
3,061,441
3,062,658
3,065,080
3,066,029
3,068,103
91: 3,033,686
3,034,897
3,034,898
3,057,731
3,061,442
92: 3,021,220
3,026,205
3,038,808
3,042,527
3,043,700
3,043,701
3,049,426
3,057,732
3,069,270
93: 3,033,139
94: Re.25,231
3,037,864
3,039,878
95: 3,034,899
3,041,177
3,052,549
96: 3,021,221
97: 3,051,576
98: 3,023,107
3,058,829
100: 3,018,179
3,031,307
3,044,880
3,052,550
102: 3,032,419
3,044,881
3,070,444
103: 3,023,108
3,030,212
3,036,920
3,044,882
3,062,659
105: 3,034,900
3,036,921
3,042,528
3,069,271
107: 3,016,301
3,023,109
3,024,113
3,025,166
3,026,206
3,028,243
3,032,420
3,036,922
3,042,529
3,052,551
3,053,667
3,056,679
3,056,680
108: 3,058,830
109: 3,032,421
3,033,687
3,047,398
3,050,399
3,050,400
3,063,842
3,068,104
110: 3,047,399
111: 3,022,175
3,024,114
3,041,178
116: 3,017,274
3,020,163
3,039,879
3,046,140
3,047,400

Class 99—Con.

116: 3,048,490
3,056,681
118: 3,027,259
3,028,244
3,029,147
3,042,530
3,047,401
3,047,402
3,048,491
3,051,577
3,070,445
121: 3,017,275
122: 3,019,110
3,026,207
3,033,689
123: Re.25,264
3,015,566
126: 3,056,682
3,057,733
3,062,660
3,063,843
128: 3,037,865
3,044,883
129: 3,019,111
3,030,213
130: 3,028,180
3,018,181
3,067,036
131: 3,016,302
3,031,308
3,060,032
132: 3,034,901
3,041,179
3,065,081
134: 3,018,182
3,018,183
3,020,164
3,024,115
3,038,809
3,062,661
135: 3,063,844
136: 3,017,276
3,068,105
137: 3,061,443
138: 3,062,662
139: 3,021,222
3,067,037
140: 3,034,902
3,037,866
3,041,180
3,048,492
3,060,033
3,061,444
141: 3,042,531
3,061,445
142: 3,057,734
143: 3,015,567
3,039,880
144: 3,027,260
3,067,038
147: 3,041,181
148: 3,035,923
3,046,141
3,052,552
150: 3,038,810
3,044,884
3,054,678
153: 3,046,142
154: 3,019,112
3,034,903
3,034,904
3,044,885
3,047,403
3,049,427
3,051,578
155: 3,026,208
156: 3,017,277
3,024,116
157: 3,050,401
3,057,735
3,069,272
159: 3,051,579
162: 3,022,176
3,060,034
166: 3,032,422
168: 3,037,867
3,046,143
3,068,106
169: 3,029,148
3,041,182
171: 3,025,167
3,027,261
3,031,309
3,035,924
3,037,868
3,038,811
3,041,183
3,042,532
3,050,402
3,051,580
3,051,581
3,051,582
3,052,553
171: 3,052,554
3,054,679
3,054,680
3,062,663
3,062,664
3,063,845
3,067,039
3,069,273
3,069,274
3,070,446
172: 3,015,568
3,027,262
3,027,263
3,067,040
174: 3,026,209
3,029,149
3,031,310
3,041,184
3,044,886
3,047,404
3,049,428
3,051,583
3,051,584
3,054,681
3,061,446
178: 3,060,035
180: 3,034,905
3,035,925
3,039,881
181: 3,061,447
182: 3,018,184
3,037,869
3,041,185
3,042,533
3,063,846
183: 3,052,555
186: 3,019,113
3,052,556
3,063,847
3,065,082
187: 3,025,168
3,067,041
188: 3,050,403
189: 3,039,882
192: 3,030,214
3,038,812
3,046,144
3,047,405
3,049,429
3,052,557
3,052,558
3,055,759
3,058,831
3,065,083
193: 3,025,169
3,031,311
3,050,404
3,070,447
194: 3,025,170
3,054,682
3,055,760
3,060,036
3,065,084
195: 3,034,906
3,036,923
199: 3,058,832
204: 3,023,110
3,025,171
3,031,312
3,033,690
3,057,736
3,057,737
3,057,738
3,057,739
3,060,037
3,063,848
3,066,030
205: 3,023,111
3,044,887
3,053,564
3,061,448
3,065,085
206: 3,024,117
3,031,313
207: 3,016,303
3,021,223
3,021,224
3,027,264
3,031,314
3,038,813
3,039,883
3,046,145
3,049,430
3,054,683
3,056,683
3,063,849
3,067,042
208: 3,067,043
210: 3,028,245
3,060,038
3,062,665
211: 3,041,186
3,053,569
212: 3,058,833
3,065,086
214: 3,052,559
215: 3,031,315
3,032,423
3,060,039
216: 3,018,185
3,039,884
3,054,684
222: 3,028,246
3,029,150
3,033,691
3,037,870
3,050,405
3,052,560
3,070,448
232: 3,047,406
234: 3,026,786
3,043,207
3,049,986
3,069,994
235: 3,016,814
3,049,070
3,059,566
236: 3,021,779
3,058,413
237: 3,029,723
3,038,401
3,069,995
238: 3,018,715
3,037,442
3,067,671
238.6: 3,059,567
239: 3,040,647
244: 3,069,996
251: 3,016,815
3,041,958
3,053,166
255: 3,016,004
257: 3,035,508
3,043,208
259: 3,069,997
3,069,998
260: 3,029,724
3,041,959
275: 3,024,718
277.1: 3,021,780
279: 3,069,999
281: 3,049,987
3,053,167
282: 3,066,597
283: 3,031,947
3,034,417
3,060,835
285: 3,044,388
3,066,598
287: 3,019,719
3,020,823
3,023,691
3,030,874
3,063,359
289: 3,022,719
3,046,869
3,053,168
3,055,286
3,062,126
3,064,553
3,070,000
300: 3,036,512
302: 3,025,781
3,060,836
305: 3,068,777
310: 3,022,720
311: 3,040,648
312: 3,040,649
316: 3,041,960
323: 3,034,418
329: 3,029,725
3,032,424
3,035,509
3,051,074
3,065,688
331: 3,018,716
332: 3,037,443
336: 3,026,790
337: 3,064,554
339: 3,016,816
3,016,817
3,019,720
3,025,782
340: 3,034,419
3,045,581
3,049,071
3,059,568
345: 3,022,721
3,025,783
346: 3,020,824
3,055,287
349: 3,033,099
353: 3,060,837
3,064,555
354: 3,022,722
356: 3,026,791
362: 3,020,825
3,039,379
375: 3,068,778
390: 3,031,948
3,052,177
3,056,344
392: 3,034,420
393: 3,062,127
397: 3,043,209
3,045,582
3,051,075
400: 3,019,721
402: 3,033,100
3,040,650
3,046,870
403: 3,038,402
404: 3,036,513
416: 3,068,779
419: 3,028,801
3,063,360
421: 3,017,819
3,028,802
3,053,169
3,058,414
426: 3,020,826
427: 3,049,072
3,055,288
430: 3,060,838
436: 3,017,820
439: 3,033,101
446: 3,025,784
3,040,651
3,049,073
3,062,128

Class 100

1: 3,019,722
3,023,692
3,040,652
3: 3,051,076
4: 3,045,583
3,068,780
5: 3,064,556
8: 3,021,781
12: 3,039,380
3,066,599
14: 3,033,102
19: 3,027,825
3,030,875
3,036,514
21: 3,068,781
25: 3,041,961
3,052,178
3,060,839
3,070,001
26: 3,020,827
3,031,949
3,037,444
3,041,962
3,046,871
3,051,077
3,057,289
3,060,840
3,068,782
27: 3,045,584
3,056,345
28: 3,052,179
31: 3,060,841
32: 3,023,693
34: 3,038,403
35: 3,070,002
37: 3,060,842
41: 3,036,515
3,060,843
43: 3,015,262
3,034,421
3,062,129
44: 3,024,719
46: 3,020,828
48: 3,016,005
3,044,389
49: 3,039,381
50: 3,040,653
51: 3,070,003
52: 3,046,872
53: 3,024,720
3,040,654
3,055,289
70: 3,034,422
72: 3,037,445
75: 3,016,818
3,067,672
76: 3,068,783
90: 3,025,785
93: 3,023,694
3,035,510
3,043,210
3,045,585
3,070,004
95: Re.25,268
3,049,988
97: Re.25,228
3,017,821
3,018,717
3,024,721
98: 3,022,723
3,030,876
3,037,446
3,053,170
3,059,569
3,063,361
100: 3,033,103
102: 3,020,829
103: 3,018,718
116: 3,055,290
117: 3,034,423
3,035,511
3,055,291
122: 3,040,655
125: 3,033,104
133: 3,027,826
142: 3,030,877
3,044,390
3,068,784
145: 3,034,424
146: 3,021,782
3,070,005
148: 3,044,391
3,054,343
3,064,557
3,065,689
154: 3,045,586
3,063,362
158: 3,053,171
160: 3,027,827
3,035,512
162: 3,044,392
3,049,074
163: 3,016,819
169: 3,054,344
170: 3,023,695
3,043,211
176: 3,066,600
187: 3,060,844
192: 3,070,006
209: 3,020,830
211: 3,057,290
214: 3,033,105
3,034,425
3,056,516
3,064,558
215: 3,046,873
3,048,096
216: 3,062,130
218: 3,035,513
219: 3,037,892
3,039,382
232: 3,020,831
233: 3,020,832
3,036,517
3,043,212
3,062,131
237: 3,030,878
240: 3,017,822
3,039,383
256: 3,041,963
3,046,874
3,062,132
257: 3,051,078
258: 3,031,950
264: 3,027,828
3,035,514
3,070,007
265: 3,018,719
269: 3,030,879
3,030,880
271: 3,020,833
3,027,829
286: 3,044,393
288: 3,040,656
292: 3,064,559
293: 3,063,363

Class 101

1: 3,045,587
2: 3,027,830
3: 3,016,006
3,033,106
3,046,875
4: 3,020,834
3,031,951
3,057,291
5: 3,019,723
7: 3,019,724
3,030,881
3,053,172
9: 3,052,180
11: 3,026,792
3,039,384
19: 3,015,263
3,015,264
3,034,426
3,036,518
3,049,989
3,051,079
3,055,292
3,059,570
27: 3,022,724
28: 3,044,394
3,060,845
3,063,364
32: 3,051,080
35: 3,021,783
3,051,081
3,059,571
37: 3,035,515
3,059,572
3,063,365
3,068,785
38: 3,019,725
3,045,588
40: 3,022,725
3,024,722
41: 3,018,720
3,046,876
3,052,181
42: 3,022,726
44: 3,020,835
3,025,786
3,026,793
3,055,293
47: 3,048,097
56: 3,045,589
57: 3,031,952
58: 3,029,726
65: 3,044,395
76: 3,046,877
78: 3,036,520
90: 3,064,560
91: 3,037,447
3,063,385
92: 3,031,953
3,062,133
93: Re.25,263
3,015,265
3,016,007
3,016,008
3,018,721
3,018,722
3,023,696
3,024,723
3,030,882
3,031,954
3,043,213
3,045,590
3,046,878
3,049,075
3,049,990
3,049,991
3,051,082
3,053,173
3,058,415
3,060,846
3,062,134
3,063,366
3,064,561
3,066,601
94: 3,016,820
95: 3,025,787
96: 3,031,955
97: 3,043,214
99: 3,049,992
110: 3,024,724
3,033,107
111: 3,038,404
3,041,964
3,041,965
115: 3,040,657
3,046,879
3,066,602
119: 3,031,956
123: 3,017,823
3,017,824
3,017,825
3,026,794
3,046,880
3,054,345
124: 3,028,803
125: 3,020,836
3,035,516
127: 3,053,174
127.1: 3,025,788
3,049,993
128.2: 3,061,673
128.4: 3,055,294
129: 3,023,697
131: 3,053,175
132: 3,019,726
132.5: 3,016,821
3,052,822
3,020,837
3,033,108
3,035,517
3,051,083
3,053,176
134.5: 3,018,723
137: 3,049,076
139: 3,041,966
141: 3,039,386
142: 3,052,182
3,065,690
144: 3,034,427
3,056,346
147: 3,025,789
148: 3,019,727
3,026,795
3,038,405
3,043,215
3,048,098
3,059,573
149.2: 3,016,823
3,016,824
3,017,826
3,017,827
3,020,839
3,025,790
3,055,295
3,060,848
3,064,562
3,070,008
149.5: 3,034,428
3,049,994
151: 3,055,296
152: 3,060,367
156: 3,030,883
157: 3,017,828
3,026,796
3,044,396
3,052,183
171: 3,019,728
174: 3,057,292
178: Re.25,134
3,063,368
179: 3,043,216
181: 3,022,727
3,025,791
3,033,109
3,068,787
182: 3,041,967
211: 3,015,266
3,045,591
3,049,077
212: 3,043,217
216: 3,039,387
3,049,995
3,064,563
217: 3,025,792
3,049,996
218: 3,030,884
3,034,429
3,046,881
3,054,346
3,067,674
220: 3,067,675
226: 3,026,788
227: 3,046,882
3,065,691
3,070,009
228: 3,016,009
3,025,797
3,049,078
232: 3,029,728
3,033,110
3,039,388
3,062,135
233: 3,048,099
234: 3,016,825
235: 3,060,849
247: 3,027,831
3,027,832
3,063,369
248: 3,026,798
250: 3,067,676
252: 3,027,833
269: 3,026,725
3,056,347
3,058,416
272: 3,033,111
280: 3,018,726
282: 3,057,883
287: 3,043,218
3,062,136
288: 3,060,850
3,067,677
291: 3,023,698
292: 3,021,834
327: 3,017,829
3,055,297
328: 3,059,574
329: 3,046,884
3,063,370
330: 3,067,056
333: 3,020,838
334: 3,033,112
336: 3,037,448
3,057,293
349: 3,060,851

350: 3,020,840
3,020,841
3,025,793
3,037,449
3,037,450
3,037,451
3,045,592
3,046,885
3,062,137
3,062,138
351: 3,029,729
3,064,564
357: 3,065,692
364: 3,060,852
365: 3,041,968
3,057,294
366: 3,018,727
3,065,693
367: 3,044,397
3,066,603
368: 3,045,593
3,063,371
3,064,565
369: 3,015,267
3,034,430
375: 3,023,689
3,045,594
3,068,789
377: 3,064,566
378: 3,019,728
3,019,729
3,028,805
3,039,389
3,039,390
3,043,219
381: 3,018,728
3,066,604
382: 3,027,835
3,034,431
388: 3,028,806
394: 3,068,790
395: 3,031,959
401.1: 3,015,268
3,023,700
3,029,730
3,031,960
3,062,139
3,062,140
401.2: 3,054,347
401.3: 3,056,348
405: 3,023,701
407: 3,024,725
3,034,432
3,064,567
415: 3,018,729
3,052,184
415.1: 3,016,010
3,017,830
3,020,842
3,022,728
3,045,595
3,058,417
3,062,141
416: 3,053,180
419: 3,029,731
420: 3,054,348
425: 3,016,826
3,049,997
426: 3,031,961
3,048,100
3,053,181
3,055,298
3,060,853

Class 102

1: 3,054,349
3: 3,015,269
3,016,827
4: 3,064,568
5: 3,024,726
7: 3,015,270
3,027,836
7.2: 3,016,011
8: 3,064,569
10: 3,017,831
11: 3,031,962
3,033,113
13: 3,016,828
3,038,406
3,039,391
14: 3,015,271
3,031,963
16: 3,015,272
17: 3,016,012
18: 3,015,273
3,016,013
3,016,829
3,017,832
3,017,833
3,017,834
3,019,730
3,020,843
3,026,799

18: 3,027,837
3,030,885
3,040,658
3,044,398
3,065,694
20: 3,016,014
3,016,830
3,018,730
3,019,731
3,021,784
3,022,729
3,033,114
3,036,521
3,036,522
3,040,659
3,048,101
3,048,102
3,053,182
3,054,938
3,057,295
3,064,570
3,067,678
3,067,679
21: 3,031,964
3,070,010
21.6: 3,029,732
3,057,296
3,070,011
21.8: 3,031,965
3,046,886
3,057,297
3,058,418
3,063,372
3,064,571
22: 3,016,831
3,029,733
3,035,518
3,046,887
3,046,888
3,048,103
3,056,349
3,059,575
23: 3,024,727
3,035,519
3,062,142
3,063,373
3,064,572
3,068,791
24: 3,021,785
3,025,794
3,027,838
3,036,523
3,037,452
3,037,453
3,046,889
3,049,079
3,058,419
3,064,573
25: 3,016,015
3,018,731
3,022,730
3,026,800
3,041,969
3,041,970
3,041,971
3,054,350
3,055,299
3,064,574
3,070,012
27: 3,020,844
3,021,786
3,027,839
28: 3,019,732
3,024,728
3,040,660
3,041,972
3,052,185
3,056,350
3,059,576
3,062,143
3,070,013
30: 3,041,973
34.1: 3,015,274
3,038,407
3,068,792
34.4: 3,049,080
3,056,351
34.5: 3,060,854
35.4: 3,055,300
37: 3,053,183
37.6: 3,064,575
37.8: 3,043,220
3,051,085
3,064,576
38: 3,037,454
3,046,890
3,049,998
3,058,420
3,060,855
3,062,144
3,062,145
3,065,695
3,067,680

39: 3,048,104
3,051,086
41: 3,016,832
3,027,840
3,031,966
3,060,856
42: 3,022,731
3,026,801
3,055,301
43: 3,026,802
3,026,803
3,034,433
3,048,105
3,055,302
45: 3,046,891
3,048,106
46: 3,062,146
49: 3,017,835
3,017,836
3,024,729
3,028,807
3,029,734
3,029,735
3,038,408
3,043,221
3,048,107
3,053,184
3,058,421
3,063,374
3,067,681
3,067,682
3,067,683
3,070,014
3,070,015
50: 3,027,841
3,031,967
3,034,434
3,045,596
3,048,108
3,048,109
3,057,298
3,058,422
3,063,375
3,064,577
2,070,016
51: 3,058,423
3,063,376
3,065,696
52: 3,028,808
53: 3,048,110
64: 3,049,999
65: 3,052,186
65.2: 3,056,352
67: 3,026,804
70: 3,015,275
3,020,845
3,034,435
3,044,399
3,048,111
3,054,351
3,062,147
70.2: 3,018,732
3,019,733
3,022,732
3,023,702
3,026,805
3,027,842
3,028,809
3,031,968
3,034,436
3,034,437
3,035,520
3,035,521
3,040,661
3,043,222
3,043,223
3,046,892
3,054,352
3,055,303
3,060,857
3,064,578
3,066,605
3,067,684
3,070,017
71: 3,022,733
3,030,886
3,033,115
3,039,392
73: 3,021,787
75: 3,018,734
3,066,606
76: 3,015,276
78: 3,015,277
3,034,438
79: 3,045,597
80: 3,045,598
82: 3,052,187
84: 3,030,887
3,059,577
85: 3,025,795
89: 3,023,703
3,059,578
91: 3,019,733
92.5: 3,026,806
3,034,439

92.5: 3,050,000
3,062,148
3,067,685
3,070,018
93: 3,033,116
3,040,662
3,044,400
94: 3,023,704
3,058,424
95: 3,022,734
3,053,185
98: 3,022,735
3,028,810
3,029,736
3,031,969
3,033,117
3,048,112
3,054,353
3,067,686

Class 103

1: 3,015,278
3,016,833
3,026,807
3,030,888
3,038,409
3,045,599
3,046,893
3,048,113
3,065,697
3,065,698
3,066,607
2: 3,023,705
3,040,663
3,044,401
3,046,894
3,050,001
3,057,299
3,057,300
3,058,425
3,064,579
3,065,699
3,066,608
3,068,793
4: 3,016,017
3,016,834
3,025,796
3,028,811
3,029,737
3,034,440
3,036,524
3,037,455
3,040,664
3,040,665
3,041,974
3,051,087
3,064,580
3,067,687
5: 3,016,835
3,053,186
3,062,149
3,066,609
3,070,019
6: 3,033,118
7: 3,035,522
9: 3,050,002
3,068,794
3,070,020
10: 3,066,610
11: 3,015,279
3,024,730
3,030,889
3,060,858
3,065,700
3,068,795
3,068,796
17: 3,058,426
23: 3,043,224
25: 3,021,788
3,030,890
3,030,891
3,043,225
3,044,402
3,050,003
3,055,304
3,070,021
26: 3,016,836
3,043,226
35: 3,021,789
37: 3,016,018
3,016,837
3,020,846
3,020,847
3,022,736
3,033,119
3,045,600
3,046,895
3,050,004
3,050,005
3,064,581
3,067,688

38: 3,016,838
3,036,525
3,040,666
3,043,227
3,043,228
3,053,187
3,057,301
3,062,150
40: 3,039,393
3,044,403
41: 3,016,839
3,027,843
3,027,844
3,034,441
3,044,404
3,046,896
3,055,305
3,059,579
3,065,701
42: 3,021,790
3,023,706
3,024,732
3,054,354
3,059,580
3,065,702
3,067,689
3,068,797
44: 3,016,840
3,022,737
3,030,892
3,035,523
3,036,526
3,045,601
3,048,114
3,052,188
3,064,582
3,065,703
3,068,798
46: 3,015,280
3,020,848
3,023,707
3,024,733
3,025,798
3,031,970
3,034,442
3,037,456
3,050,006
3,059,581
3,065,704
48: 3,016,016
3,046,897
3,048,115
49: 3,019,734
3,019,735
3,022,738
3,046,898
50: 3,041,975
3,044,405
3,070,022
51: 3,056,353
3,070,023
52: 3,031,971
3,035,524
3,039,394
3,053,188
3,055,306
53: 3,018,735
3,023,708
3,039,395
3,066,611
3,070,024
54: 3,031,972
3,039,396
3,046,899
68: 3,030,893
70: 3,040,667
83: 3,039,397
84: 3,037,457
87: 3,016,841
3,020,849
3,022,739
3,025,799
3,026,808
3,031,973
3,033,120
3,034,443
3,038,410
3,038,411
3,040,668
3,041,976
3,044,977
3,044,406
3,044,407
3,046,900
3,048,116
3,048,117
3,048,118
3,051,088
3,053,189
3,056,354
3,059,582
3,060,859
3,060,860
3,060,861

87: 3,067,690
88: 3,046,901
3,068,799
89: 3,023,709
94: Re.25,116
3,050,007
97: 3,070,025
101: 3,049,081
3,051,089
102: 3,017,837
3,070,026
3,070,027
103: 3,018,736
3,019,736
3,020,850
3,022,740
3,024,734
3,027,845
3,033,121
3,040,669
3,040,670
3,041,978
3,043,229
3,044,408
3,060,862
3,068,800
3,068,801
108: 3,025,800
3,051,090
111: 3,024,735
3,066,612
3,070,028
113: 3,031,974
3,045,602
3,045,603
3,050,008
3,063,377
3,068,802
114: 3,037,458
115: 3,037,459
117: 3,028,812
3,028,813
3,034,444
3,041,979
155: 3,026,812
3,045,606
3,046,904
157: 3,059,313
159: 3,059,586
160: 3,056,356
161: 3,028,814
3,034,451
3,035,526
3,036,528
3,043,232
3,043,233
3,043,234
3,044,412
3,046,905
3,051,092
3,053,196
3,056,357
3,058,429
3,063,380
3,064,583
3,066,613
3,067,693
3,068,805
162: 3,026,814
3,040,672
3,046,906
3,050,014
3,051,093
3,053,197
3,055,358
3,063,381
3,065,711
3,070,031
163: 3,035,527
3,063,382
167: 3,058,430
168: 3,036,529
169: 3,068,806
170: 3,016,843
3,025,803
173: 3,018,737
3,045,604
3,046,907
3,067,694
178: 3,044,413
179: 3,040,673
192: 3,043,235
195: 3,033,123
202: 3,021,794
203: 3,048,122
204: 3,019,739
206: 3,044,414
3,062,154
215: 3,016,022
216: 3,033,124
3,037,460
3,039,400
3,049,082
218: 3,026,815

135: 3,025,802
136: 3,024,736
3,031,975
3,036,527
3,054,357
3,057,304
3,058,427
3,065,707
3,065,708
139: 3,033,122
3,065,709
3,065,710
140: 3,050,012
143: 3,053,193
144: 3,043,231
148: 3,029,742
3,062,152
149: 3,038,414
3,046,903
3,050,013
3,067,692
150: 3,019,738
3,021,792
3,027,847
3,027,848
3,029,743
3,034,450
3,039,399
3,040,671
3,041,980
3,045,605
3,058,428
3,070,029
152: 3,021,793
3,048,121
3,062,153
3,070,030
153: 3,020,851
3,022,742
3,023,710
3,044,410
3,044,411
3,053,194
3,053,195
155: 3,026,812
3,045,606
3,046,904
157: 3,059,313
159: 3,059,586
160: 3,056,356
161: 3,028,814
3,034,451
3,035,526
3,036,528
3,043,232
3,043,233
3,043,234
3,044,412
3,046,905
3,051,092
3,053,196
3,056,357
3,058,429
3,063,380
3,064,583
3,066,613
3,067,693
3,068,805
162: 3,026,814
3,040,672
3,046,906
3,050,014
3,051,093
3,053,197
3,055,358
3,063,381
3,065,711
3,070,031
163: 3,035,527
3,063,382
167: 3,058,430
168: 3,036,529
169: 3,068,806
170: 3,016,843
3,025,803
173: 3,018,737
3,045,604
3,046,907
3,067,694
178: 3,044,413
179: 3,040,673
192: 3,043,235
195: 3,033,123
202: 3,021,794
203: 3,048,122
204: 3,019,739
206: 3,044,414
3,062,154
215: 3,016,022
216: 3,033,124
3,037,460
3,039,400
3,049,082
218: 3,026,815

Class 103—Con.

220: 3,029,744
3,033,125
3,070,032
221: 3,045,607
3,045,608
225: 3,020,852
3,066,614
227: 3,058,431
228: 3,027,849
229: 3,031,976
3,041,981
232: 3,016,844
3,028,815
3,028,816
3,028,817
3,054,358
3,070,033
234: 3,060,863
235: 3,058,432
236: 3,052,190
255: 3,053,198
3,065,712
258: 3,022,743
3,031,977
262: 3,024,737

Class 104

2: 3,034,452
3,050,015
7: 3,020,853
3,041,982
3,054,359
3,055,309
12: 3,016,023
3,022,744
3,028,818
3,070,034
18: 3,037,461
3,037,462
20: 3,046,908
26: 3,034,453
32: 3,055,310
44: 3,024,738
3,035,528
3,060,674
48: 3,021,795
3,038,415
61: 3,019,740
67: 3,065,713
71: 3,030,895
88: Re.25,245
3,045,609
3,045,610
3,048,123
3,059,587
3,065,714
93: 3,041,983
3,055,311
3,064,584
3,064,585
94: 3,059,588
3,068,807
95: 3,056,359
96: 3,056,360
98: 3,062,155
99: 3,022,745
3,063,383
101: 3,033,126
102: 3,046,909
103: 3,033,127
3,063,384
104: 3,019,741
3,064,586
111: 3,039,401
3,059,589
112: 3,067,695
113: 3,026,816
3,070,035
114: 3,059,590
118: 3,040,675
120: 3,017,838
121: 3,060,864
3,066,615
126: 3,051,094
130: 3,060,865
134: 3,055,312
135: 3,026,817
3,052,191
148: 3,016,845
149: 3,016,024
3,017,839
3,024,739
3,048,124
155: 3,036,530
3,045,611
162: 3,024,740
3,029,745
3,030,896
3,040,676
3,051,095
3,055,313
162: 3,067,696
167: 3,051,096
168: 3,039,402
172: Re.25,288
3,015,284
3,021,796
3,022,746
3,024,741
3,027,850
3,043,236
3,043,237
3,044,415
3,044,416
3,044,417
3,048,125
3,058,433
3,060,866
3,064,587
3,066,616
3,068,808
3,068,809
3,070,036
3,070,037
173: 3,053,199
3,054,360
176: 3,028,819
178: 3,022,747
3,039,403
3,045,612
3,048,126
202: 3,036,531
3,037,463
209: 3,037,464
242: 3,070,038
245: 3,050,016
246: 3,067,697
247: 3,051,097
249: 3,020,854
3,026,818
250: 3,020,855
254: 3,053,200
3,053,201
3,053,202
258: 3,043,238
3,043,239
259: 3,043,240
260: 3,027,851

Class 105

8: 3,030,897
31: 3,040,677
36: 3,021,797
145: 3,048,127
3,060,867
150: 3,040,678
3,055,314
3,057,305
151: 3,018,738
3,037,465
154: 3,018,739
3,065,715
155: 3,033,128
3,059,591
156: 3,049,083
159: 3,057,306
163: 3,044,418
168: 3,054,361
171: 3,037,466
177: 3,035,529
179: 3,066,617
182: 3,064,588
192: 3,022,748
193: 3,024,742
3,038,416
197: 3,020,856
3,024,743
3,026,819
3,028,820
199: 3,020,857
3,022,749
3,041,984
3,041,985
3,043,241
200: 3,057,307
215: 3,019,742
3,020,858
3,043,242
3,063,385
224: 3,015,285
243: 3,034,454
248: 3,040,679
253: 3,055,315
260: 3,043,243
270: 3,016,846
3,055,316
3,070,039
282: 3,021,798
3,066,618
3,070,040
308: 3,035,539
315: 3,044,419
355: 3,062,156
364: 3,067,698
366: 3,059,592
3,070,041
367: 3,054,362
368: 3,016,025
3,017,840
3,023,711
3,033,129
3,046,910
3,051,098
3,054,363
3,063,386
3,066,619
3,070,042
369: 3,017,841
3,018,740
3,021,799
3,023,712
3,026,820
3,029,746
3,038,417
3,044,420
3,051,099
3,059,593
3,062,157
3,063,387
3,066,620
3,067,699
3,070,043
376: 3,017,842
3,017,843
3,018,741
3,025,894
3,029,747
3,063,388
3,070,044
377: 3,019,743
3,022,750
396: 3,033,130
401: 3,066,621
404: 3,035,531
406: 3,029,748
409: 3,015,286
414: 3,063,389
422: 3,026,821
3,055,317
423: 3,025,805

Class 106

1: 3,022,177
3,031,316
3,062,666
3,063,850
2: 3,033,692
12: 3,047,407
13: 3,017,278
3,019,114
3,022,178
14: 3,034,907
3,035,926
3,050,406
3,056,684
3,067,044
3,067,045
14.5: 3,036,924
15: 3,041,187
3,041,188
3,063,852
3,065,087
3,067,046
23: 3,031,317
26: 3,015,569
3,037,871
30: 3,025,172
3,037,872
32: 3,019,115
3,025,173
35: 3,028,247
3,047,408
36: 3,016,304
38: 3,039,885
38.2: 3,027,265
3,055,761
38.23: 3,037,873
38.3: 3,029,151
3,032,425
38.35: 3,032,426
38.5: 3,046,146
3,053,670
38.6: 3,053,671
38.7: 3,023,112
38.8: 3,023,113
38.9: 3,046,147
3,057,740
39: 3,022,179
3,022,180
3,024,118
3,026,210
3,028,248
3,035,927
3,037,874
3,041,189
3,049,431
3,054,685
39: 3,057,741
3,062,667
3,062,668
3,068,107
3,069,275
3,069,276
40: 3,030,215
3,041,190
42: 3,050,407
43: 3,032,427
44: 3,065,088
46: 3,019,116
3,060,040
47: 3,024,119
3,029,152
3,032,428
3,033,693
3,041,191
3,043,702
3,047,409
3,068,108
48: 3,017,279
49: 3,055,762
3,061,449
50: 3,044,888
3,053,672
3,060,041
52: 3,022,181
3,022,182
3,024,120
3,024,121
3,025,174
3,031,318
3,032,429
3,065,089
3,065,090
53: 3,046,148
3,047,410
54: 3,020,165
3,022,183
3,035,928
3,054,686
55: 3,048,493
3,065,091
3,067,047
56: 3,023,114
3,070,449
57: 3,025,175
3,035,929
3,049,432
58: 3,024,222
3,026,211
3,042,534
3,044,889
3,060,042
3,062,048
59: 3,030,216
3,030,217
3,036,925
3,058,834
62: 3,067,049
64: 3,060,043
65: 3,023,115
3,033,694
3,034,908
3,056,685
3,067,050
66: 3,019,117
68: 3,026,212
71: 3,030,218
3,055,763
74: 3,069,277
78: 3,021,225
79: 3,058,835
80: 3,034,909
81: 3,047,411
85: 3,042,535
3,056,686
86: 3,027,266
87: 3,062,669
90: 3,023,116
3,033,673
3,053,674
93: 3,063,851
96: 3,070,450
98: 3,025,176
3,068,109
99: 3,062,670
100: 3,043,703
3,066,031
102: 3,068,110
104: 3,042,536
109: 3,024,123
3,061,450
110: 3,042,537
3,069,278
111: 3,054,687
115: 3,057,742
122: 3,055,765
123: 3,019,118
3,030,219
3,053,675
125: 3,017,280
128: 3,069,279
146: 3,058,836
148: 3,053,676
150: 3,031,319
154: 3,056,687
162: 3,053,677
163: 3,033,695
165: 3,016,305
3,030,220
3,031,320
3,033,696
3,034,910
3,047,412
3,053,678
3,056,688
3,066,032
166: 3,033,697
167: 3,020,166
169: 3,019,119
3,057,743
3,066,033
170: 3,024,124
3,047,413
171: 3,060,044
176: 3,031,321
3,065,092
177: 3,049,433
3,068,111
178: 3,038,362
3,038,814
180: 3,053,679
3,054,688
3,068,112
181: 3,015,570
3,070,451
185: 3,017,281
188: 3,015,571
191: 3,063,853
194: 3,049,434
3,066,034
196: 3,033,698
197: 3,015,572
208: 3,054,689
209: 3,039,886
210: 3,022,184
3,034,911
211: 3,066,035
213: 3,019,120
3,052,561
3,063,854
3,063,855
3,066,036
3,066,037
3,070,452
224: 3,066,038
229: 3,020,167
235: 3,035,931
238: 3,021,226
3,030,221
3,044,890
241: 3,053,680
3,061,451
243: 3,066,039
252: 3,043,704
253: 3,018,186
3,037,875
3,065,093
264: 3,023,117
268: 3,042,538
3,053,681
3,062,671
270: 3,053,682
3,060,045
3,060,046
271: 3,069,280
273: 3,028,249
3,035,930
3,046,149
3,047,414
277: 3,060,047
278: 3,048,494
3,070,453
3,070,454
3,070,455
281: 3,062,672
3,063,856
284: 3,035,932
3,065,094
285: 3,026,213
3,058,837
3,067,051
286: 3,019,121
3,031,322
3,033,699
3,057,744
287: 3,017,282
3,019,122
3,024,125
3,025,177
3,038,815
3,038,816
3,043,705
3,043,706
3,052,562
3,055,766
3,057,745
3,060,048
287: 3,061,452
3,063,857
288: 3,030,222
3,043,707
290: 3,053,683
3,067,052
292: 3,053,684
296: 3,022,185
3,028,250
3,042,539
3,046,150
297: 3,031,323
3,050,408
299: 3,025,178
3,037,876
3,046,151
3,053,685
3,058,838
300: 3,015,573
3,022,186
3,025,179
3,036,926
3,056,689
3,062,673
3,065,095
3,068,113
3,069,281
3,069,282
302: 3,070,456
304: 3,017,283
306: 3,033,700
3,034,913
3,034,914
3,046,152
3,052,563
3,060,049
307: 3,023,118
3,032,430
3,043,708
3,060,050
308: 3,019,123
3,024,126
3,029,153
3,032,431
3,041,192
3,042,540
3,067,053
310: 3,046,153
316: 3,037,877

Class 107

1: 3,016,847
3,017,844
3,019,744
3,029,749
3,046,911
3,050,017
3,059,594
3,063,390
3: 3,033,131
4: 3,034,452
3,058,434
3,063,391
7: 3,023,713
3,056,361
8: 3,019,745
3,027,852
3,029,750
3,031,978
3,031,979
3,036,532
3,038,418
3,038,419
3,039,404
3,070,045
9: 3,028,821
3,037,467
3,043,244
3,049,084
12: 3,023,714
3,055,318
14: 3,016,026
3,017,845
3,019,746
3,023,715
3,038,420
3,052,192
3,052,193
3,052,194
3,052,195
3,052,196
3,059,595
16: 3,029,751
17: 3,016,027
3,029,752
19: 3,026,822
29: 3,064,589
30: 3,035,532
40: 3,030,898
44: 3,024,744
47: 3,053,203
48: 3,046,912
49: 3,026,823
54: 3,021,800
3,022,751
3,031,980
3,033,132
3,036,533
3,048,128
3,048,129
55: 3,018,742
3,045,614
56: 3,015,287
57: 3,026,824
3,046,913
3,064,590
3,064,591
63: 3,022,752
68: 3,064,591

Class 109

1: 3,062,158
3: 3,045,615
5: 3,046,914
6: 3,068,810
12: 3,055,319
3,067,700
23: 3,016,848
29: 3,070,046
38: 3,059,596
58.5: 3,039,405
59: 3,029,753
63.5: 3,026,825
3,068,811

Class 110

1: 3,060,868
7: 3,022,753
3,026,826
3,064,592
8: 3,027,853
3,031,981
3,031,982
3,034,456
3,035,533
3,043,245
3,043,246
3,043,247
3,043,248
3,043,249
3,044,421
3,048,130
3,051,100
3,057,308
3,057,309
3,060,869
3,064,593
3,068,812
9: 3,059,597
10: 3,041,986
15: 3,027,854
3,046,915
3,055,320
18: 3,048,849
3,038,421
3,070,047
19: 3,029,754
22: 3,033,133
28: 3,026,406
3,049,085
38: 3,038,422
72: 3,023,716
3,044,422
3,048,131
97: 3,060,870
99: 3,015,288
3,029,755
3,034,457
3,037,468
3,038,423
3,045,616
3,051,101
3,056,362
3,064,594
3,068,813
101: 3,050,018
104: 3,033,134
165: 3,027,855
173: 3,055,321
3,060,871
179: 3,039,407
3,043,250

Class 111

3: 3,020,859
6: Re.25,307
3,025,806
3,029,756
7: 3,038,424
7.1: 3,025,827
7.4: 3,040,680
15: 3,043,251
34: 3,020,860

24: 3,038,425
52: 3,022,754
3,033,135
3,037,469
3,037,470
3,055,322
59: 3,016,916
63: 3,019,747
65: 3,066,622
67: 3,031,983
3,060,872
69: 3,046,917
73: 3,060,573
77: 3,022,755
3,048,132
81: 3,023,717
82: 3,026,828
3,031,984
85: 3,023,718
3,026,829
3,062,159
95: 3,027,856

Class 112

2: 3,015,289
3,016,028
3,023,719
3,024,745
3,034,458
3,038,426
3,039,408
3,044,423
3,046,918
3,050,019
3,051,102
3,053,204
3,054,364
3,070,048
3: 3,031,985
3,062,160
3,062,161
10: 3,034,459
3,041,987
3,044,424
3,051,103
11: 3,029,757
3,038,427
3,039,409
3,046,919
3,053,205
16: 3,046,920
21: 3,024,746
25: 3,023,720
3,051,104
3,060,874
3,068,814
32: 3,054,365
3,058,435
34: 3,020,861
35: 3,048,133
37: 3,038,428
38: 3,048,134
3,062,162
44: 3,031,986
46: 3,031,987
3,055,323
3,064,595
3,064,596
3,064,597
3,064,815
52: 3,051,105
3,064,598
62: 3,056,363
3,064,599
63: 3,052,187
65: 3,068,816
67: 3,039,410
77: 3,020,862
3,033,136
3,051,106
78: 3,057,310
79: 3,016,029
3,019,748
3,020,863
3,025,807
3,028,580
3,052,198
3,056,364
3,059,598
3,064,600
3,067,701
84: 3,025,808
86: 3,062,163
95: 3,039,411
3,050,020
102: 3,018,743
3,029,758
3,059,599
111: 3,036,534
113: 3,024,747
3,044,425
114: 3,017,846
3,033,137
117: 3,044,426
3,070,049
118: 3,046,921
123: 3,024,748
3,034,460
3,054,366
127: 3,029,759
132: 3,018,744
134: 3,040,683
135: 3,016,850
137: 3,064,601
152: 3,029,760
3,054,367
153: 3,020,864
3,028,822
155: 3,048,135
158: 3,025,809
3,026,831
3,029,761
3,031,988
3,033,138
3,034,461
3,034,462
3,035,534
3,037,471
3,041,988
3,043,252
3,043,253
3,051,107
3,053,206
3,053,207
3,055,324
3,055,325
3,057,311
3,058,436
3,060,875
3,062,164
3,064,602
3,064,603
3,065,716
3,066,623
3,067,702
3,068,817
3,070,050
159: 3,020,865
3,033,139
160: 3,016,030
3,030,899
3,039,412
3,062,165
165: 3,065,717
180: 3,031,989
181: 3,038,429
3,051,108
3,063,392
3,065,718
184: 3,023,721
185: 3,066,624
187: 3,044,427
192: 3,029,762
193: 3,049,086
199: 3,028,823
200: 3,016,851
3,059,600
3,068,818
203: 3,024,750
3,033,140
204: 3,026,832
206: 3,037,472
209: 3,018,745
210: 3,015,290
3,019,749
3,022,756
3,023,722
3,033,141
3,036,535
3,064,604
3,070,051
211: 3,018,746
214: 3,026,833
3,066,625
215: 3,019,750
218: 3,021,801
3,040,681
3,059,601
219: 3,026,834
3,029,763
3,033,142
220: 3,051,109
3,054,368
3,058,437
221: 3,026,835
3,040,682
224: 3,060,876
226: 3,016,031
3,020,866
228: 3,053,208
229: 3,050,021
230: 3,016,032
3,067,703
231: 3,046,922
3,054,369
232: 3,016,033
3,026,836
232: 3,064,605
235: 3,024,751
3,044,428
3,055,326
3,066,626
3,070,052
236: 3,026,837
237: 3,036,536
239: 3,051,110
241: 3,025,810
3,028,824
252: 3,025,811
3,051,111
3,058,438
3,068,819
254: 3,067,704
256: 3,031,990
3,031,991
3,060,877
3,064,606
3,068,820
258: 3,018,747
3,025,812
3,027,857
3,058,439
3,067,705
260: 3,060,878
3,066,627
3,066,628
3,068,821
261: 3,019,751
262: 3,016,852
3,034,463
3,036,537
3,044,429
3,059,602
3,067,706
266: 3,017,847

Class 113

1: 3,025,813
3,045,017
7: 3,053,209
18: 3,015,291
22: 3,025,814
23: 3,030,900
24: 3,055,719
33: 3,050,022
3,052,199
3,070,053
35: 3,067,707
3,070,054
38: 3,031,992
3,052,200
3,057,312
3,067,708
38.1: 3,043,254
42: 3,028,825
3,039,413
3,053,210
43: 3,056,365
44: 3,022,757
3,030,901
3,031,993
3,033,143
3,040,684
3,044,430
3,051,112
3,053,211
3,057,313
3,059,603
3,065,720
3,066,629
3,068,822
45: 3,021,802
3,036,538
3,046,923
46: 3,022,758
3,070,055
48: 3,016,853
49: 3,015,292
3,019,752
3,021,803
3,025,815
3,030,902
3,034,464
3,034,465
3,037,473
3,041,989
3,056,366
50: 3,040,685
51: 3,045,618
3,056,367
3,060,879
52: 3,029,764
3,046,924
3,050,023
3,056,368
3,067,709
53: 3,041,990
54: 3,015,293
59: 3,068,823
3,068,824
60: 3,025,816
60: 3,053,212
61: 3,036,368
80: 3,029,765
3,037,474
93: 3,016,854
3,025,817
3,045,619
94: 3,027,858
3,028,826
95: 3,053,213
3,053,328
3,064,607
99: 3,020,867
3,033,144
3,045,620
3,053,214
3,055,329
3,056,369
3,058,440
3,068,825
102: 3,016,855
3,016,856
3,030,903
3,031,994
3,044,431
3,045,621
3,070,056
103: 3,031,995
109: 3,068,826
110: 3,031,996
3,040,686
3,068,827
111: 3,024,752
3,070,057
115: 3,030,904
3,060,880
116: 3,015,294
3,015,295
3,016,857
3,025,818
3,025,819
3,025,820
3,034,466
3,038,430
3,039,414
3,055,330
3,060,881
3,066,630
3,066,631
118: 3,021,804
120: 3,019,753
3,021,805
3,028,827
3,064,608
121: 3,070,058
126: 3,029,766
3,041,991
3,056,370
3,056,371
3,056,372
3,058,441
3,059,604
129: 3,053,215
130: 3,026,838
136: 3,053,145
3,063,393

Class 114

.5: 3,022,759
3,024,753
3,031,997
3,035,535
3,036,539
3,043,255
3,051,113
3,053,216
3,065,721
16: 3,034,467
3,034,468
3,038,431
3,039,415
3,041,992
3,051,114
3,063,394
3,065,722
16.4: 3,063,395
16.7: 3,045,622
3,059,605
16.8: 3,045,623
20: 3,045,624
3,048,136
3,048,137
3,050,024
3,052,201
3,066,632
23: 3,015,297
3,016,857
3,020,868
3,021,806
3,022,760
3,024,754
3,024,755
23: 3,027,859
3,031,998
3,033,146
3,041,993
3,045,625
3,049,087
3,054,370
3,062,166
3,063,396
3,064,609
3,064,610
3,066,633
24: 3,053,217
3,067,710
25: 3,033,147
3,033,148
3,045,626
3,045,627
3,054,371
3,057,314
26: 3,057,315
39: 3,016,858
3,016,859
3,016,860
3,041,994
3,054,372
3,057,316
40: 3,045,628
51: 3,033,149
54: 3,019,754
3,046,925
3,053,218
3,070,059
55: 3,030,905
56: 3,040,687
3,045,629
3,051,115
57: 3,063,397
61: 3,016,861
3,039,416
3,046,926
3,052,202
62: 3,016,862
66.5: 3,016,863
3,016,864
3,019,755
3,026,839
3,031,999
3,044,432
3,046,927
3,046,928
3,055,331
3,058,442
3,062,167
3,063,398
3,064,611
3,065,723
3,067,711
67: 3,016,865
3,019,756
3,027,860
3,040,688
68: 3,028,828
71: 3,039,417
72: 3,019,757
3,038,432
3,059,606
73: 3,033,150
74: 3,016,866
3,018,748
3,021,808
3,021,809
3,039,418
3,040,689
3,043,256
3,052,203
3,056,373
3,064,612
3,067,712
3,067,713
77: 3,035,536
79: 3,016,867
88: 3,065,724
103: 3,053,219
108: 3,040,690
121: 3,029,767
3,033,613
122: 3,045,630
125: 3,054,373
126: 3,015,298
3,018,749
3,020,869
3,036,540
3,066,634
138: 3,021,810
144: 3,018,750
3,041,995
3,050,025
3,066,635
151: 3,056,374
165: 3,038,433
183: 3,020,870
3,036,541
185: 3,027,861
185: 3,029,768
3,040,691
3,057,317
3,060,882
3,065,725
3,067,714
187: 3,021,811
197: 3,018,751
3,044,433
3,049,088
198: 3,054,374
199: 3,051,116
201: 3,045,631
202: 3,038,434
3,043,257
3,045,632
3,050,026
206: 3,018,752
3,023,723
3,032,000
3,036,542
3,051,117
3,055,332
3,062,168
3,064,614
3,066,636
3,068,828
207: 3,040,692
3,043,258
208: 3,015,299
3,021,812
3,022,761
3,022,762
3,024,756
3,026,840
3,030,906
3,030,907
3,045,633
3,057,318
3,059,607
3,067,715
209: 3,039,419
210: 3,025,821
3,045,634
3,048,138
3,055,333
218: 3,046,929
3,055,334
219: 3,018,758
3,033,151
3,055,335
3,063,399
3,063,400
221: 3,016,1034
3,020,871
3,022,763
3,040,693
3,048,139
3,056,375
3,060,883
222: 3,068,829
230: 3,019,759
3,055,336
3,063,884
3,060,885
3,062,169
3,064,615
3,067,716
235: Re.25,165
3,016,868
3,024,757
3,028,829
3,034,469
3,034,470
3,041,996
3,043,259
3,045,635
3,060,886
3,062,170
3,062,171
236: 3,035,537

Class 115

1: 3,026,841
3,027,862
3,030,908
3,057,319
3,063,401
3,066,637
3,068,830
6: 3,033,152
6.1: 3,018,753
3,043,260
3,048,140
3,051,118
3,062,172
3,063,638
7: 3,063,402
9: 3,043,261
12: 3,020,872
3,030,909
3,040,694
3,054,375
12: 3,064,616
14: 3,034,472
3,040,695
3,049,089
16: 3,017,848
3,040,696
17: 2,016,869
3,023,724
3,025,822
3,025,823
3,025,824
3,033,153
3,045,930
3,060,887
3,066,639
18: 3,018,754
3,029,769
3,039,420
3,052,204
3,062,173
3,070,060
21: 3,038,435
3,039,421
22.2: 3,048,141
22.3: 3,062,174
23: 3,045,636
25: 3,032,001
3,039,422
26: 3,027,863
34: 3,070,061
35: 3,016,870
3,051,119
3,054,376
3,057,320
3,063,403
41: 3,024,758
3,024,759
3,029,770
3,030,910
3,036,543
3,051,120
3,062,175
3,063,404
42: 3,016,871
3,025,825
3,027,864
3,035,538
3,051,121
3,066,640
52: 3,044,434
70: 3,019,760
3,036,544
3,040,697

Class 116

9: 3,038,436
23: 3,056,376
26: 3,037,475
27: 3,052,205
28: 3,036,545
3,064,617
34: 3,030,911
3,036,546
3,051,122
57: 3,037,476
3,045,637
59: 3,034,473
60: 3,039,423
3,039,424
3,039,425
3,039,426
3,048,142
3,065,726
3,065,727
61: 3,054,377
63: 3,016,035
3,023,725
3,056,377
65: 3,057,321
3,063,405
67: 3,033,154
3,049,090
3,059,608
70: 3,022,764
3,043,262
3,052,206
3,056,378
3,056,379
3,064,618
3,068,831
104: 3,062,176
106: 3,016,872
109: 3,024,760
112: 3,066,641
114: 3,020,873
3,020,874
3,027,865
3,027,866
3,032,002
3,038,437

Class 116—Con.

114: 3,044,435
3,050,027
3,051,123
3,056,380
3,066,642
114.5: 3,054,378
115: 3,038,438
117: 3,015,300
3,038,439
3,052,207
3,068,832
119: 3,016,036
3,026,576
3,036,547
3,059,609
124: 3,016,037
3,025,826
3,029,771
3,043,263
3,049,091
3,050,028
3,056,381
3,065,728
3,065,729
124.4: 3,029,772
3,054,379
129: 3,016,038
3,032,004
3,033,155
3,040,698
3,040,699
3,041,997
3,045,638
3,046,931
3,057,322
3,068,833
130: 3,034,474
133: 3,021,814
3,025,827
3,032,003
3,033,156
3,070,062
3,070,063
135: 3,040,700
3,044,436
3,046,932
3,048,143
3,057,323
136.5: 3,039,427
3,066,643
137: 3,017,849
3,028,830
3,028,831
3,028,832
3,033,157
3,033,158
3,046,933
3,048,144
3,053,220
3,054,380
3,061,619
3,068,834
141: 3,038,440
148: 3,068,835
173: 3,016,934
3,063,466
3,067,717

Class 117

2: 3,056,690
3.1: 3,016,574
3,031,324
3.4: 3,067,054
4: 3,056,691
3,069,283
5.1: 3,017,284
3,023,119
3,042,541
3,063,858
5.3: 3,039,887
3,056,692
5.5: 3,054,114
6: 3,034,915
3,037,878
3,048,495
7: 3,036,927
3,043,709
3,053,891
3,053,686
3,054,690
8: 3,017,285
3,019,124
3,039,125
10: 3,044,892
3,054,691
3,065,096
11: 3,020,168
3,041,193
3,048,496
13: 3,069,284
15: 3,023,120
15: 3,029,154
3,035,933
16: 3,022,187
3,024,127
3,027,267
3,031,325
17: 3,019,126
17.5: 3,052,564
3,054,692
3,060,051
3,060,052
3,063,859
18: 3,023,121
3,039,888
3,044,803
3,063,860
3,065,097
21: 3,028,251
3,047,415
3,057,746
22: 3,017,286
3,024,128
3,035,934
3,049,435
3,050,409
25: 3,022,188
3,049,436
26: 3,029,155
3,030,223
29: 3,029,156
31: 3,049,437
33: 3,019,127
3,020,169
3,036,928
33.3: 3,016,306
3,028,252
3,033,701
3,034,916
3,042,542
3,051,585
3,063,861
3,063,862
32.5: 3,016,307
3,017,288
3,018,187
3,022,189
3,028,253
3,030,224
3,031,326
3,043,710
3,046,154
3,047,416
3,049,438
3,055,767
3,067,055
34: 3,017,289
3,061,453
3,063,863
3,065,098
35.5: 3,062,675
36.1: 3,020,170
3,029,157
3,037,879
3,061,454
3,065,099
36.2: 3,020,171
3,034,917
3,035,935
36.3: 3,035,936
36.4: 3,031,327
3,034,918
3,062,676
36.7: 3,015,575
3,016,308
3,020,172
3,025,180
3,031,328
36.8: 3,028,254
3,028,255
3,031,329
3,063,863
3,063,864
37: 3,021,227
3,022,190
3,030,225
3,032,432
3,044,894
3,047,417
3,047,418
3,052,565
3,053,688
3,061,455
3,065,100
3,068,115
3,069,285
38: 3,018,188
3,023,122
3,032,433
3,033,702
3,034,920
3,041,194
3,043,711
3,054,693
3,065,101
40: 3,035,937
41: 3,041,195
42: 3,066,040
43: 3,041,196
44: 3,023,123
3,035,938
45: 3,020,173
3,023,124
3,061,456
46: 3,026,214
3,028,256
3,028,257
3,031,330
3,031,331
3,033,434
3,047,419
3,055,768
3,055,769
3,070,457
47: 3,015,189
3,020,174
3,022,191
3,022,192
3,031,332
3,033,703
3,033,704
3,041,197
3,069,286
3,069,287
49: 3,015,576
3,020,175
3,051,586
3,065,102
50: 3,022,193
3,029,158
3,031,333
3,033,705
3,041,198
3,043,712
51: 3,018,190
3,027,268
3,027,269
3,030,226
3,047,420
3,051,587
3,057,747
3,060,053
3,060,054
3,060,055
3,060,056
3,066,041
52: 3,037,880
3,048,497
54: 3,034,921
3,060,057
3,065,103
55: 3,031,334
3,033,706
57: 3,061,457
59: 3,029,159
60: 3,044,895
62: Re.25,164
3,015,577
3,023,125
3,027,270
3,030,227
3,041,199
3,042,543
3,043,713
3,061,458
63: 3,034,922
64: 3,020,176
3,028,258
3,044,896
3,068,116
65.2: 3,044,129
3,066,042
66: 3,034,923
3,057,748
3,063,865
68: 3,015,578
3,041,200
68.5: 3,050,411
3,051,588
3,052,566
3,066,043
3,067,057
69: 3,031,335
3,038,817
70: 3,018,191
3,030,228
3,032,435
3,036,929
3,041,201
3,047,421
3,051,589
3,051,590
3,054,694
3,067,058
71: 3,019,128
3,021,228
3,032,436
3,041,202
3,053,689
3,055,770
71: 3,062,677
3,063,866
3,069,288
3,069,289
72: 3,017,287
3,032,437
3,037,881
3,039,889
3,042,544
3,042,690
3,054,695
3,054,696
3,058,839
3,069,290
3,070,458
73: 3,044,897
75: 3,016,309
3,022,194
3,024,130
3,024,131
3,029,159
3,029,160
3,033,703
3,033,704
3,041,197
3,069,286
3,069,287
3,069,288
3,069,289
3,069,290
3,070,457
3,070,458
3,071,586
3,071,587
3,071,588
3,071,589
3,071,590
3,071,591
3,071,592
3,071,593
3,071,594
3,071,595
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3,071,601
3,071,602
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3,071,613
3,071,614
3,071,615
3,071,616
3,071,617
3,071,618
3,071,619
3,071,620
3,071,621
3,071,622
3,071,623
3,071,624
3,071,625

8: 3,065,730
9: 3,017,850
3,023,727
3,029,775
3,029,776
3,054,381
11: 3,020,877
3,057,324
3,062,178
15: 3,035,540
16: 3,045,640
3,045,641
26: 3,044,437
30: 3,052,209
32: 3,023,728
34: 3,068,836
38: 3,036,548
40: 3,037,477
41: 3,055,337
47: 3,056,382
3,057,325
49: 3,017,851
3,029,777
3,030,912
3,040,702
3,045,642
49.1: 3,016,873
3,024,761
3,036,549
3,044,438
3,046,936
3,059,612
49.5: 3,017,852
58: 3,036,383
3,067,718
63: 3,025,828
3,038,441
3,060,889
67: 3,029,778
3,040,703
70: 3,019,761
72: 3,030,913
76: 3,019,762
104: 3,029,779
3,063,407
106: 3,030,914
107: 3,044,439
109: 3,027,867
3,029,429
120: 3,055,338
125: 3,018,755
3,024,762
126: 3,029,780
202: 3,030,915
211: 3,035,541
215: 3,017,853
221: 3,025,829
3,039,430
223: 3,034,477
226: 3,018,756
233: 3,024,765
234: 3,023,729
3,027,868
236: 3,057,326
238: 3,052,210
239: 3,015,301
243: 3,025,830
3,060,890
249: 3,044,440
3,068,837
250: 3,062,179
251: 3,041,998
252: 3,030,916
253: 3,016,039
257: 3,067,719
258: 3,048,145
3,063,408
261: 3,026,842
262: 3,016,874
3,035,757
263: 3,034,478
268: 3,035,542
391: 3,020,878
3,036,550
3,039,431
3,048,146
302: 3,046,937
303: 3,017,854
3,033,159
306: 3,016,875
3,017,855
308: 3,067,720
309: 3,028,834
313: 3,026,843
3,033,160
314: 3,021,815
315: 3,029,781
3,052,211
3,066,644
316: 3,027,869
3,068,838
317: 3,044,441
318: 3,015,302
3,015,303
320: 3,062,180
323: 3,041,999
3,052,212
325: 3,036,551
406: 3,034,479
407: 3,032,007
3,062,181
408: 3,055,339
3,067,721
409: 3,070,065
410: 3,016,040
3,023,730
411: 3,021,816
3,032,008
3,056,384
3,064,621
413: 3,030,917
3,057,327
3,070,066
415: 3,045,643
419: 3,016,041
420: 3,065,731
421: 3,039,432
423: 3,020,879
3,054,382
426: 3,063,409
500: 3,028,835
3,028,836
505: 3,020,880
3,051,124
3,063,410
504: 3,027,870
505: 3,029,782
3,039,433
506: 3,046,938
600: 3,063,411
602: 3,044,442
603: 3,051,125
610: 3,053,223
622: 3,058,443
624: 3,059,613
625: 3,023,731
629: 3,049,092
631: 3,016,876
637: 3,015,304
3,015,305
3,021,817
3,021,818
3,032,009
3,037,478
3,038,442
3,040,704
3,045,644
3,052,213
3,058,444
3,059,614
3,064,622

Class 119

1: 3,029,783
3,037,479
3,038,443
3,052,214
3,059,615
2: 3,025,831
3,029,784
3: 3,024,764
3,028,837
4: 3,017,856
3,017,857
3,029,785
3,062,182
5: 3,018,758
3,066,645
7: 3,053,224
14.03: 3,015,306
3,016,877
3,019,763
3,059,616
14.05: 3,019,764
14.06: 3,044,443
14.09: 3,035,543
14.13: 3,033,161
14.14: 3,022,766
14.18: 3,036,552
3,053,225
14.36: 3,070,067
14.54: 3,029,786
3,029,787
15: 3,062,183
3,066,647
15.5: 3,064,623
15.6: 3,063,412
16: 3,023,732
17: 3,058,445
18: 3,029,788
3,046,939
3,063,413
19: 3,016,042
3,026,844
3,035,544
3,043,264
3,048,147
3,063,414
20: 3,042,000
3,043,265
21: 3,018,759
3,032,010
3,042,001
22: 3,021,819
3,062,184
23: 3,017,858
3,053,226
27: 3,016,043
3,038,444
3,043,266
28: 3,066,646
29: 3,057,328
3,063,415
30: 3,058,446
45: 3,027,871
3,037,480
3,044,444
48: 3,029,789
3,033,162
3,046,940
3,062,185
49: 3,045,645
50: 3,030,918
51: 3,017,859
3,040,705
3,040,706
3,049,093
3,063,416
51.06: 3,066,648
51.11: 3,022,767
3,026,845
3,029,790
51.13: 3,030,029
51.15: 3,060,891
51.5: 3,057,329
52: 3,019,765
3,022,768
3,024,765
3,025,832
3,028,838
3,029,791
3,033,163
3,035,545
3,039,434
3,031,126
3,053,227
3,053,228
3,068,839
53: 3,030,919
3,050,030
3,057,330
53.5: 3,019,766
3,040,707
3,066,649
3,067,722
54: 3,033,164
3,053,229
56: 3,034,480
58: 3,020,881
3,067,723
60: 3,030,920
61: 3,015,307
3,015,308
71: 3,037,481
3,042,002
73: 3,044,445
75: 3,043,267
3,044,446
3,044,447
3,049,094
3,066,650
78: 3,052,215
79: 3,063,417
80: 3,016,044
81: 3,023,733
3,027,872
3,034,481
3,062,186
82: 3,020,882
95: 3,036,553
3,063,418
96: 3,024,766
3,036,554
3,053,230
3,058,447
97: 3,066,651
98: 3,030,921
3,043,268
3,043,269
3,017,860
99: 3,023,734
3,037,482
3,051,127
103: 3,029,846
105: 3,035,546
119: 3,043,270
121: 3,070,068
129: 3,024,767
130: 3,033,165
144: 3,052,216
147: 3,050,031
148: 3,046,941
155: 3,016,878
157: 3,016,879
3,020,883
3,033,166
3,035,547
3,038,445
3,045,646
3,045,647
3,046,942
3,051,128
3,055,340
3,062,187
158: 3,060,892
159: 3,018,760
3,028,839
3,032,011
3,062,188

Class 120

1: 3,030,922
8: 3,051,129
9: 3,026,847
14.5: 3,025,833
18: 3,052,189
3,062,190
23: 3,068,840
24: 3,016,045
28: 3,060,893
30: 3,030,923
34: 3,030,924
36: 3,039,435
40: 3,049,095
42: 3,030,925
42.03: 3,019,767
3,027,873
3,032,012
3,033,167
3,037,483
3,039,436
3,046,943
3,051,131
3,051,132
3,062,191
3,063,419
3,064,624
3,070,069
42.1: 3,018,761
3,019,768
3,025,834
42.13: 3,023,735
42.16: 3,023,736
3,023,737
3,027,874
3,065,732
42.4: 3,025,835
3,030,926
3,039,437
3,048,148
3,048,149
3,051,133
3,063,420
44: 3,020,884
3,055,341
45.4: 3,040,708
3,066,652
50: 3,055,342
51: 3,064,625
57: 3,039,438
91: 3,042,003
96: 3,026,848
3,049,096
3,059,617
103: 3,019,769

Class 121

2: 3,057,331
3: 3,063,421
7: 3,044,448
3,059,618
9: 3,055,343
11: 3,064,626
12: 3,032,013
3,043,271
13: 3,026,849
3,027,875
3,028,840
3,028,841
3,030,927
3,040,709
3,043,272
15: 3,051,134
16: 3,039,619
3,060,894
17: 3,023,738
3,040,710
21: 3,038,446
3,040,711
3,051,135
3,055,344
3,067,724
23: 3,035,548
3,049,097
28: 3,050,032
3,050,033
29: 3,038,447
30: 3,053,231
32: 3,022,769
3,042,004
33: 3,048,150
3,049,098
3,059,620
34: 3,043,273
3,045,648
36: 3,043,274
37: 3,051,136
38: 3,015,309
3,015,310
3,016,046
3,016,047
3,017,861
3,018,762
3,019,770
3,019,771
3,020,885
3,020,886
3,022,770
3,023,739
3,023,740
3,024,768
3,024,769
3,024,770
3,025,836
3,025,837
3,027,876
3,027,877
3,028,842
3,030,928
3,032,014
3,033,168
3,033,169
3,033,170
3,034,482
3,035,549
3,035,550
3,036,555
3,037,484
3,037,485
3,038,448
3,038,449
3,038,450
3,039,439
3,039,440
3,039,441
3,040,712
3,043,275
3,043,276
3,044,449
3,044,450
3,044,451
3,045,649
3,045,650
3,048,151
3,050,034
3,051,137
3,052,217
3,053,232
3,053,233
3,054,383
3,054,384
3,054,385
3,055,346
3,056,385
3,058,448
3,059,621
3,059,622
3,060,895
3,060,896
3,060,897
3,062,192
3,063,422
3,063,423
3,065,733
3,065,734
3,067,725
3,067,726
3,067,727
3,068,841
3,070,070
39: Re.25,291
3,015,311
40: 3,015,312
3,020,887
3,020,888
3,022,771
3,024,771
3,026,850
3,030,929
3,030,930
3,033,171
3,033,172
3,055,345
3,060,898
3,063,424
41: Re.25,126
Re.25,257
3,015,313
41: 3,015,314
3,016,048
3,016,880
3,016,881
3,016,882
3,016,883
3,017,862
3,017,863
3,017,864
3,017,865
3,017,866
3,018,763
3,020,889
3,020,890
3,021,820
3,021,821
3,022,772
3,026,851
3,026,852
3,026,853
3,026,854
3,027,878
3,032,015
3,033,173
3,034,483
3,035,551
3,035,552
3,037,486
3,037,487
3,038,451
3,040,713
3,040,714
3,040,715
3,042,005
3,045,651
3,045,652
3,046,944
3,046,945
3,049,099
3,049,100
3,050,035
3,050,036
3,053,234
3,054,386
3,054,387
3,054,388
3,057,332
3,058,449
3,058,450
3,060,899
3,063,425
3,063,426
3,063,427
3,064,627
3,065,735
3,065,736
3,066,653
3,068,842
3,070,071
3,070,072
42: 3,030,931
3,051,138
3,051,139
3,070,073
43: 3,026,855
44: 3,017,867
3,043,277
45: 3,025,838
3,036,556
3,043,278
3,051,140
3,065,737
46: 3,015,315
3,022,773
3,032,016
3,032,017
3,042,006
3,045,653
3,046,946
3,046,947
3,046,948
3,046,949
3,051,141
3,060,900
3,063,428
3,065,738
46.4: 3,015,316
3,020,891
3,020,892
46.5: 3,015,317
3,016,049
3,026,856
3,027,879
3,032,018
3,049,101
3,050,037
3,051,142
3,052,218
3,060,901
3,068,843
47: 3,033,174
3,065,739
48: 3,015,318
48: 3,016,884
3,019,772
3,039,442
3,039,443
3,051,143
3,053,235
3,064,628
49: 3,070,074
52: 3,030,932
53: 3,034,484
58: 3,029,792
59: 3,020,893
3,036,557
3,040,716
61: 3,037,488
62: 3,030,933
3,037,489
63: 3,035,553
68: 3,063,429
69: 3,068,844
70: 3,029,793
80: 3,062,193
84: 3,054,389
86: 3,035,554
87: 3,029,794
95: 3,038,452
97: 3,032,019
3,033,175
3,049,102
3,070,075
99: 3,021,822
3,023,741
3,030,934
3,032,020
3,049,103
3,053,236
3,066,654
101: 3,064,629
119: Re.25,294
3,036,558
3,056,386
3,056,387
120: 3,040,717
3,065,740
3,067,728
121: 3,046,950
3,058,451
123: 3,050,038
150: 3,030,935
3,038,951
157: 3,019,773
3,027,880
3,030,936
159: 3,050,039
164: 3,017,868
3,021,823
3,024,772
194: 3,046,952
3,046,953
3,046,954
3,059,623
3,060,902

Class 122

1: 3,048,152
3,049,104
3,062,194
4: 3,033,176
3,048,153
3,050,040
6: 3,030,937
3,053,237
6.6: 3,052,219
11: 3,051,144
13: 3,029,795
17: 3,016,885
3,045,654
32: 3,029,796
33: 3,020,894
3,037,490
3,055,347
34: 3,018,764
137: 3,035,555
149: 3,028,843
156: 3,036,655
167: 3,052,220
225: 3,051,145
228: 3,070,076
235: 3,020,895
3,025,844
3,026,857
3,030,938
3,033,177
3,039,444
3,052,221
3,056,388
3,060,903
3,060,904
240: 3,043,279
3,048,154
3,066,656
249: 3,051,146
250: 3,065,741
333: 3,067,729

Class 122—Con.

356: 3,040,718
367: 3,050,041
373: 3,027,881
379: 3,036,559
3,064,630
406: 3,019,774
3,021,824
3,037,491
3,038,453
3,046,955
3,050,042
3,056,389
3,062,195
3,063,430
407: 3,029,797
448: 3,042,007
3,060,905
451: 3,046,956
3,064,631
3,070,077
459: 3,043,280
3,049,106
476: 3,035,556
3,052,222
478: 3,015,319
3,022,774
3,033,178
3,060,906
3,063,431
479: 3,017,869
3,017,870
3,028,844
3,035,557
3,040,719
3,052,223
3,060,907
3,062,196
3,066,657
481: 3,060,908
483: 3,049,105
491: 3,028,845
3,057,333
494: 3,029,798
498: 3,019,775
504: 3,063,432
510: 3,026,858
3,027,882
3,033,179
3,034,485
3,040,720
3,046,957
3,049,107
3,055,348
3,055,349
3,060,909
3,062,197

Class 123

1: 3,015,320
3,030,939
3,030,940
3,035,558
3,037,492
3,038,454
3,050,043
3,052,224
3,062,198
3,065,742
7: 3,027,883
3,042,008
3,044,452
3,046,958
3,049,108
3,049,109
3,056,390
8: 3,023,742
3,033,180
3,042,009
3,070,078
11: 3,034,486
3,063,433
12: 3,060,910
13: 3,030,941
3,050,911
16: 3,056,391
17: 3,036,560
21: 3,019,776
25: 3,017,871
3,028,846
3,033,181
3,034,487
3,044,453
3,050,044
26: 3,017,872
3,019,777
3,043,281
27: 3,016,886
30: 3,015,321
3,020,896
3,045,655
3,054,390
3,068,845
32: 3,015,322
3,020,897
3,020,898
3,020,899
3,020,900
3,025,839
3,029,799
3,033,182
3,034,488
3,034,489
3,035,559
3,038,455
3,038,456
3,039,445
3,039,446
3,042,010
3,044,454
3,044,455
3,046,959
3,053,238
3,056,392
3,057,334
3,058,452
3,063,434
33: 3,038,453
3,060,912
3,060,913
39: 3,026,859
41.01: 3,062,614
41.04: 3,064,632
41.08: 3,065,743
41.1: 3,068,846
41.15: 3,054,391
3,056,393
41.31: 3,052,225
41.36: 3,070,079
41.42: 3,044,456
41.53: 3,024,773
41.57: 3,063,435
41.69: 3,033,183
41.72: 3,064,633
41.74: 3,064,634
41.82: 3,022,775
41.83: 3,018,765
41.86: Re.25,121
43: 3,034,490
46: 3,035,560
3,043,282
47: 3,040,721
48: 3,025,840
50: 3,042,011
51: 3,021,825
3,023,743
3,032,021
3,048,155
3,051,147
52: 3,024,774
3,032,022
3,037,493
3,060,914
55: 3,044,491
3,039,447
3,051,148
56: 3,043,283
59: 3,039,448
3,059,624
3,059,625
3,060,915
65: 3,033,184
3,036,561
3,038,457
3,042,012
3,059,626
3,062,199
73: 3,016,050
3,022,776
3,042,013
75: 3,040,722
76: 3,046,960
3,046,961
78: 3,038,458
79: 3,015,323
3,055,350
3,060,916
90: Re.25,154
3,016,887
3,021,826
3,024,775
3,025,841
3,025,842
3,038,459
3,038,460
3,043,284
3,045,656
3,045,657
3,045,658
3,048,156
3,050,045
3,051,149
3,053,239
3,054,392
3,056,394
3,058,454
3,059,627
3,064,635
90: 3,066,658
3,066,659
3,068,847
3,068,848
3,070,080
97: 3,019,778
3,027,884
102: 3,036,562
3,049,110
103: 3,021,827
3,028,847
3,068,849
108: 3,028,848
117: 3,021,828
3,043,285
3,046,962
3,051,150
118: 3,022,777
119: 3,016,888
3,016,889
3,017,873
3,018,766
3,019,779
3,019,780
3,020,901
3,023,744
3,024,776
3,026,860
3,029,800
3,030,942
3,033,185
3,035,561
3,036,563
3,036,564
3,038,461
3,042,014
3,042,015
3,044,457
3,049,111
3,051,151
3,051,152
3,053,240
3,057,335
3,059,628
3,066,660
122: 3,015,324
3,016,051
3,016,890
3,018,767
3,019,781
3,024,777
3,024,778
3,026,861
3,030,943
3,032,023
3,042,016
3,051,153
3,053,241
3,053,242
124: 3,023,745
3,034,492
3,039,449
3,043,286
136: 3,026,862
3,048,157
139: 3,015,325
3,020,902
3,024,779
3,035,562
3,036,565
3,040,723
3,046,963
3,051,154
3,054,393
140: 3,015,326
3,025,843
3,033,186
3,058,455
3,064,636
142.5: 3,020,903
143: 3,066,661
3,066,662
145: 3,044,458
146.5: 3,035,107
3,065,285
148: 3,019,276
3,026,863
3,028,443
3,035,108
149: 3,057,938
169: 3,016,411
179: 3,019,782
3,020,904
3,020,905
3,028,849
3,029,801
3,032,024
3,032,025
3,035,563
3,040,724
3,046,964
3,051,155
3,053,243
3,055,351
3,063,436
179: 3,063,437
3,070,081
182: 3,040,725
3,057,336
185: 3,018,768
3,024,780
3,040,726
188: 3,028,850
3,037,494
3,046,965
190: 3,051,156
191: 3,019,277
3,063,438
3,066,663
193: 3,036,850
195: 3,022,778
3,036,566
3,042,017
3,063,439
196: 3,024,781
3,048,158
3,066,664
198: 3,063,440

Class 124

5: 3,052,226
8: 3,070,082
11: 3,018,769
3,022,779
3,025,845
3,039,450
3,040,727
3,045,659
3,046,966
3,055,352
3,056,395
16: 3,028,851
3,068,851
17: 3,053,244
20: 3,018,770
3,057,337
22: 3,016,891
3,057,338
23: 3,015,327
3,017,874
3,059,629
3,066,665
3,070,083
24: 3,040,728
3,055,353
25: 3,043,287
3,050,046
26: 3,025,846
3,035,564
3,058,456
27: 3,026,864
3,059,630
3,066,666
30: 3,015,328
3,055,354
35: 3,028,852
41: 3,059,631
51: 3,048,159
3,055,355
3,067,730

Class 125

3: 3,067,731
11: 3,017,875
3,017,876
3,021,829
3,022,780
3,028,853
3,033,187
3,035,565
3,046,967
3,046,968
3,049,112
3,052,227
3,067,732
3,067,733
13: 3,023,746
3,027,885
3,027,886
3,034,493
3,040,729
15: 3,036,567
3,048,160
21: 3,032,026
23: 3,026,865
3,042,018
30: 3,050,047
35: 3,060,917
36: 3,043,288
37: 3,039,451
39: 3,025,847
40: 3,048,161

Class 126

9: 3,032,027
3,046,969
3,056,396
9: 3,060,918
3,064,637
19: 3,033,188
3,038,462
3,051,187
21: 3,032,028
3,051,158
3,063,441
25: 3,018,771
3,018,772
3,021,830
3,025,848
3,027,887
3,033,189
3,033,190
3,033,191
3,035,566
3,040,730
3,046,970
3,048,162
3,051,159
3,053,245
3,060,919
3,062,200
3,068,852
3,070,084
30: 3,045,660
3,067,734
33: 3,046,971
34: 3,045,661
37: 3,023,747
3,046,972
3,051,160
3,059,632
39: 3,015,329
3,044,459
42: 3,035,567
3,043,289
43: 3,025,849
3,025,850
3,042,019
59.5: 3,020,906
3,057,339
3,068,853
85: 3,027,888
3,056,397
91: 3,058,457
93: 3,029,802
94: 3,045,662
101: 3,033,192
3,057,340
110: 3,017,877
3,018,773
3,027,889
3,027,890
3,028,854
3,029,803
3,029,804
3,042,020
3,044,460
3,046,973
3,051,161
3,053,246
3,053,247
3,056,398
3,064,638
3,067,735
3,068,854
113: 3,016,892
3,021,831
3,033,193
3,048,163
116: 3,016,893
3,017,878
3,028,855
3,064,639
120: 3,049,113
121: 3,054,394
137: 3,016,894
3,034,494
190: 3,029,805
3,045,663
191: 3,040,731
3,040,732
3,046,974
3,049,114
3,049,115
194: 3,049,116
3,067,736
198: 3,057,341
200: 3,021,832
3,070,085
202: 3,018,774
208: 3,024,782
3,046,975
3,049,117
3,057,342
210: 3,034,495
214: 3,040,733
229: 3,020,907
3,023,748
240: 3,039,452
246: 3,065,744
261: 3,034,496
3,034,497
262: 3,059,633
263: 3,064,640
270: 3,025,851
3,028,856
3,038,463
3,053,248
271: 3,022,781
3,029,806
3,039,453
3,052,228
3,053,249
271.2: 3,025,852
3,029,807
3,034,498
3,038,464
3,039,454
3,039,455
3,063,442
273: 3,050,048
3,057,343
274: 3,026,866
3,067,737
275: 3,035,568
276: 3,060,920
288: 3,056,399
307: 3,040,734
3,052,230
3,056,400
316: 3,046,976
337: 3,043,290
3,059,634
343.5: 3,046,977
3,052,231
344: 3,022,782
350: 3,026,867
3,060,921
3,065,745
360: 3,021,833
3,048,164
3,051,162
3,062,201
375: 3,034,499
3,054,395
376: 3,040,735
381: 3,019,783
390: 3,045,664
391: 3,060,922

Class 127

5: 3,069,295
9: 3,061,477
29: 3,019,138
32: 3,067,064
37: 3,067,065
38: 3,066,049
3,067,066
45: 3,047,430
46: 3,044,904
3,044,905
3,044,906
61: 3,061,478
67: 3,029,168
3,029,169
70: 3,038,853
71: 3,036,936
3,046,161
3,067,067

Class 128

1: 3,022,783
3,042,021
3,048,165
3,051,163
3,051,164
3,066,667
3,070,086
1.2: 3,060,924
2: 3,017,879
3,024,783
3,030,944
3,033,194
3,036,568
3,036,569
3,037,495
3,049,118
194: 3,049,119
3,049,120
198: 3,054,396
3,054,397
3,057,344
3,068,855
3,070,087
2.05: 3,030,945
3,032,030
3,038,465
3,040,736
3,040,737
3,051,165
3,055,356
3,056,401
3,062,202
2.06: 3,027,891
3,029,808
2.06: 3,030,946
3,043,291
3,048,166
3,058,458
2.07: 3,035,569
3,045,665
2.08: 3,026,868
3,045,666
2.1: 3,032,029
3,034,500
3,052,232
3,052,233
3,060,923
3,064,641
3: 3,030,947
3,040,738
4: 3,038,466
3,044,461
3,051,166
6: 3,021,834
3,021,835
3,032,031
8: 3,057,345
17: 3,030,948
3,038,467
20: 3,038,468
3,040,739
3,054,398
3,070,088
23: 3,042,022
3,050,049
24: 3,051,167
24.1: 3,028,857
3,062,203
25: 3,015,330
3,035,570
3,039,456
3,042,023
3,045,667
3,058,459
3,060,925
3,060,926
3,062,204
26: 3,020,908
29: 3,017,880
3,018,775
3,021,836
3,033,195
3,033,196
3,037,497
3,045,668
3,068,857
3,070,089
30: 3,037,498
3,042,024
3,043,292
3,059,635
32: 3,035,571
3,052,234
3,055,357
3,057,348
3,063,443
33: 3,019,784
3,019,785
3,019,786
3,027,892
3,030,949
3,035,572
3,037,499
3,042,025
3,043,293
3,043,294
3,044,462
3,048,167
3,048,168
3,050,050
3,050,051
3,052,235
3,062,205
3,064,642
3,068,858
38: 3,058,461
39: 3,034,501
3,053,249
3,063,444
41: 3,053,250
44: 3,030,950
54: 3,039,457
57: 3,023,749
3,037,500
3,039,458
3,060,928
3,067,738
62: 3,029,809
3,033,197
2,043,295
64: 3,027,89

66: 3,038,469
3,043,296
3,045,669
3,065,746
3,067,739
69: 3,049,119
70: 3,020,909
71: 3,021,837
75: 3,024,784
3,027,894
3,033,198
3,042,026
3,042,027
3,046,980
3,050,052
3,055,358
3,060,929
3,060,930
3,063,445
3,068,859
3,070,090
76: 3,051,168
76.5: 3,064,643
78: 3,029,810
3,052,236
3,068,860
80: 3,026,869
3,042,028
3,043,297
3,044,463
3,046,981
3,050,053
3,055,359
3,064,644
81: 3,032,032
3,049,120
3,062,206
3,063,446
83: 3,026,870
3,040,740
83.5: 3,068,861
84: 3,028,858
3,039,459
87: 3,039,460
3,068,862
89: 3,070,091
90: 3,032,033
3,048,169
3,054,399
91: 3,043,298
3,055,360
92: 3,024,785
3,025,853
3,029,811
3,030,951
3,051,169
3,053,251
3,064,645
3,067,740
96: 3,021,838
104: 3,032,034
127: 3,036,570
3,042,029
3,042,030
3,060,931
132: 3,020,910
3,060,932
3,068,863
133: 3,027,895
3,059,636
134: 3,034,502
3,042,031
3,042,032
3,046,982
3,063,447
136: 3,016,052
3,058,462
139: 3,038,463
141: 3,018,776
3,020,911
3,033,199
3,035,573
3,035,574
3,037,501
3,043,299
3,056,402
3,059,637
142: Re.25,122
3,016,053
3,021,839
3,028,859
3,028,860
3,034,503
3,042,033
3,044,464
3,050,054
3,051,170
3,060,933
3,062,207
3,068,864
3,068,865
144: 3,037,502
3,043,300
145: 3,050,055
3,064,646

146: 3,029,812
3,033,200
3,038,470
3,040,741
3,042,034
3,042,035
3,049,121
3,065,747
151: 3,050,056
152: 3,016,054
153: 3,029,813
3,036,571
3,050,057
3,062,208
3,063,448
156: 3,024,786
3,025,854
3,033,201
3,042,036
3,042,037
3,043,301
3,051,171
3,052,237
3,053,252
3,053,253
3,062,209
3,062,210
159: 3,029,814
3,037,503
3,038,471
3,059,638
163: 3,054,460
165: 3,032,035
166: 3,028,861
171: 3,036,572
3,039,461
172: 3,066,668
172.1: 3,019,787
3,048,170
173: 3,057,349
188: 3,017,881
3,018,777
3,021,840
191: 3,040,742
3,050,058
192: 3,045,670
194: 3,066,669
195: 3,027,896
198: 3,017,882
200: 3,046,983
203: 3,019,788
3,024,787
3,038,472
3,043,302
3,045,671
205: 3,045,672
3,067,741
206: 3,027,897
213: 3,067,742
214: Re.25,129
Re.25,171
3,015,331
3,017,883
3,017,884
3,017,885
3,021,841
3,022,784
3,023,750
3,025,855
3,026,871
3,030,952
3,030,953
3,030,954
3,034,504
3,034,505
3,035,575
3,037,504
3,042,038
3,043,303
3,046,984
3,054,506
3,054,507
3,062,212
216: 3,040,743
217: 3,016,895
3,058,465
218: Re.25,113
Re.25,279
3,016,896
3,016,897

218: 3,022,785
3,023,751
3,026,872
3,026,873
3,028,862
3,040,744
3,043,304
3,045,673
3,045,674
3,046,985
3,048,172
3,050,059
3,051,172
3,051,173
3,052,239
3,052,240
3,055,362
3,055,363
3,057,351
3,059,639
3,063,450
3,064,650
3,066,670
220: 3,056,404
221: 3,029,815
3,048,173
3,052,241
3,055,364
3,063,451
3,064,651
3,068,866
224: 3,065,749
227: 3,028,863
3,042,039
3,048,174
3,055,365
229: 3,054,402
3,065,750
230: 3,044,465
232: 3,054,403
233: 3,058,466
244: 3,037,505
3,062,211
245: 3,048,175
247: 3,055,366
248: 3,057,352
249: 3,016,898
251: 3,043,305
253: 3,034,507
3,062,212
260: 3,026,874
3,039,462
3,050,060
3,054,404
3,060,935
263: 3,015,332
3,032,036
3,034,508
3,042,040
3,059,640
3,059,641
3,059,642
268: 3,038,473
3,053,255
269: 3,018,778
270: 3,067,743
272: 3,030,955
3,033,202
3,033,203
3,050,061
3,055,367
3,058,467
3,059,643
3,064,652
3,066,671
3,070,093
3,070,094
274: 3,051,174
275: 3,067,744
276: 3,017,886
3,032,037
3,039,463
3,042,041
3,042,042
3,044,466
3,050,062
3,051,175
3,051,176
3,066,672
278: 3,016,055
3,018,779
283: 3,021,843
3,022,786
3,039,464
3,039,465
3,040,745
3,043,306
3,049,123
3,055,368
284: 3,029,816
3,030,956
3,035,576
3,042,043
3,045,675

284: 3,050,063
3,057,353
3,065,452
3,070,095
285: 3,024,788
3,037,506
3,051,177
3,055,369
3,058,468
3,058,469
3,063,453
3,067,745
3,068,867
287: 3,039,466
3,049,124
3,056,405
3,065,751
3,070,096
288: 3,023,752
3,025,856
3,038,474
3,038,476
289: 3,057,354
290: 3,029,817
3,035,577
3,035,578
3,036,573
3,044,467
3,046,986
3,056,406
3,059,644
3,060,936
3,063,454
3,067,746
291: 3,051,178
292: 3,030,957
3,037,507
294: 3,030,958
3,037,508
295: 3,032,038
3,035,579
3,043,307
296: 3,028,818
3,067,747
300: 3,068,868
303: 3,045,676
3,053,256
3,055,370
3,056,407
3,062,213
303.14: 3,058,470
303.18: 3,035,580
3,054,405
305: 3,016,789
3,035,581
3,037,509
3,058,471
310: 3,020,912
314: 3,046,987
3,050,937
321: 3,022,787
3,035,582
3,040,746
322: 3,019,790
325: 3,046,988
3,049,125
3,055,371
3,056,408
3,063,455
326: Re.25,191
3,032,039
3,033,204
3,040,747
3,067,748
327: 3,050,064
3,051,179
329: 3,030,959
3,039,467
330: 3,062,214
334: 3,029,819
3,040,748
3,048,177
3,054,406
3,057,355
335.5: 3,035,583
3,068,872
337: 3,068,869
3,068,870
339: 3,038,475
346: 3,016,056
3,040,749
3,043,308
3,050,065
3,059,645
347: 3,039,468
348: 3,016,899
3,017,887
3,030,960
3,034,509
3,042,044
3,043,309
3,046,989
3,058,472
3,064,653

349: 3,019,791
3,034,510
3,042,045
3,044,468
3,045,677
3,050,066
3,053,257
3,058,473
350: 3,020,913
351: 3,039,469
3,066,674
361: 3,062,215
365: 3,044,469
372: 3,023,753
3,042,046
3,050,067
373: 3,051,180
376: 3,025,857
400: 3,017,888
404: 3,029,820
418: 3,067,749
421: 3,055,372
422: 3,025,858
3,043,310
3,056,409
3,057,356
3,065,752
424: 3,015,333
432: 3,056,410
444: 3,020,914
454: 3,036,574
3,066,675
460: 3,046,990
463: 3,021,844
3,021,845
465: 3,030,961
3,030,962
467: 3,062,216
469: 3,033,205
472: 3,054,407
476: 3,035,584
3,067,750
479: 3,029,821
480: 3,019,792
482: 3,040,750
3,066,676
483: 3,024,789
484: 3,033,206
3,054,408
489: 3,036,575
3,056,411
3,066,677
3,067,751
500: 3,064,654
510: 3,025,859
3,027,898
3,045,991
519: 3,068,871
521: 3,017,889
3,029,822
3,033,207
3,043,311
3,043,312
524: 3,035,585
3,035,586
528: 3,016,900
3,044,470
529: 3,022,788
3,040,751
535: 3,059,646
3,059,647
540: 3,026,875
3,060,938
542: 3,015,334
546: 3,064,655
547: 3,043,313
548: 3,016,901
3,044,471
3,065,753
3,065,754
549: 3,016,057
554: 3,045,678
586: 3,067,752
589: 3,024,790
595: 3,021,846
3,068,872
607: 3,066,678
610: 3,063,456
615: 3,063,457
3,063,458
622: 3,029,823

Class 129

1: 3,066,679
8: 3,032,040
10: 3,070,097
16: 3,033,208
3,034,511
16.1: 3,034,512
16.7: 3,036,576
3,037,510
3,062,217

16.8: 3,039,470
18: 3,060,939
23: 3,018,780
3,039,471
24: 3,039,472
3,048,178
3,057,357
3,066,680
28: 3,035,587
3,036,577
3,049,126
3,057,358
38: 3,051,181
41: 3,026,876
43: 3,065,308

Class 130

5: 3,049,127
6: 3,064,656
20: 3,057,359
26: 3,049,128
3,049,129
27: 3,034,513
3,038,476
30: Re.25,149
3,024,791
3,026,877
3,045,679
3,046,992
3,059,648

Class 131

2: 3,034,931
3,067,068
4: 3,030,963
7: 3,021,847
8: 3,046,993
9: 3,020,915
3,043,314
3,054,409
3,057,360
3,062,218
3,065,755
10: 3,016,902
3,028,864
3,030,964
3,032,445
3,033,209
3,038,477
3,040,752
3,045,680
3,046,994
3,054,410
3,059,649
3,062,219
3,064,657
3,066,681
3,068,873
11: 3,016,903
3,067,753
13: 3,050,068
17: 3,020,179
3,034,932
3,041,211
3,042,552
3,043,723
3,047,431
3,047,432
3,047,433
3,049,449
3,050,421
3,056,697
3,057,757
3,061,479
3,062,688
20: 3,046,995
21: 3,028,865
3,036,578
3,052,242
3,055,373
3,067,754
29: 3,033,210
3,036,579
3,065,658
59: 3,058,474
61: 3,030,965
3,032,041
64: 3,018,781
3,026,878
66: 3,016,904
3,059,650
79: 3,057,361
81: 3,033,211
3,036,580
84: 3,019,793
3,030,966
3,034,514
3,039,473
3,039,474
94: 3,016,905
3,026,879
3,036,581

94: 3,058,475
3,059,651
96: 3,026,880
108: 3,016,906
109: 3,028,866
3,045,681
130: 3,021,848
134: 3,037,511
140: 3,016,907
3,024,792
3,025,860
3,039,475
3,046,996
3,053,258
3,053,259
3,070,098
143: 3,046,997
144: 3,026,881
146: 3,043,315
3,046,998
149: 3,055,374
3,055,375
172: 3,056,412
173: 3,057,362
177: 3,053,260
181: 3,065,756
182: 3,021,849
184: 3,070,099
187: 3,045,682
3,053,261
3,058,476
195: 3,048,179
200: 3,070,100
201: 3,053,262
3,062,220
203: 3,028,867
207: 3,048,180
208: 3,019,794
3,025,861
3,033,212
3,038,478
213: 3,037,512
225: 3,044,472
235: 3,037,513
240: 3,016,908
3,027,899
3,029,824
243: 3,066,682
244: 3,025,862
246: 3,023,754
259: 3,017,890

Class 132

1: 3,016,058
3,030,967
3,037,514
3,049,130
5: 3,032,042
7: 3,019,795
3,057,363
9: 3,015,335
3,019,796
3,030,968
3,044,473
3,057,364
3,065,757
3,068,874
11: 3,060,941
3,066,683
32: 3,016,059
33: 3,019,797
34: 3,045,683
3,065,758
36: 3,049,131
39: 3,050,069
3,050,070
40: 3,016,909
3,026,883
3,034,515
3,042,753
3,045,684
3,057,365
3,064,659
41: 3,030,969
3,067,755
42: 3,027,900
3,027,901
3,035,588
3,035,589
3,035,590
3,035,591
3,035,592
3,035,593
3,035,594
3,035,595
3,035,596
3,035,597
3,035,598
3,035,599
3,035,600
3,035,601
3,035,602
3,035,603
3,035,604
3,035,605
3,035,606
3,035,607
3,035,608
3,035,609
3,035,610
3,035,611
3,035,612
3,035,613
3,035,614
3,035,615
3,035,616
3,035,617
3,035,618
3,035,619
3,035,620
3,035,621
3,035,622
3,035,623
3,035,624
3,035,625
3,035,626
3,035,627

Class 132—Con.
52: 3,066,685
54: 3,046,999
73.5: 3,060,942
74.5: 3,043,316
75.5: 3,042,047
76.4: 3,070,101
79: 3,033,213
80: 3,028,868
3,034,516
3,038,480
84: 3,021,859
3,022,789
3,039,476
3,064,660
3,070,102
88.7: 3,062,221
3,062,222
93: 3,050,072
112: 3,059,652
116: 3,053,264
118: 3,065,759
149: 3,042,048
161: 3,057,367

Class 133

2: 3,020,916
3,048,181
4: 3,023,755
3,034,517

Class 134

1: 3,022,202
3,024,138
3,033,710
3,047,434
3,050,422
3,056,608
2: 3,047,435
3,054,700
3,060,064
3,066,050
3: 3,025,189
4: 3,037,886
3,063,873
5: 3,044,907
3,056,699
6: 3,018,200
3,061,480
3,062,689
7: 3,028,267
3,033,711
3,069,296
8: 3,057,758
3,060,943
9: 3,026,219
3,048,503
10: 3,023,132
3,025,160
3,044,908
3,046,162
3,053,700
11: 3,042,553
3,046,163
3,049,450
3,070,463
13: 3,033,214
15: 3,022,203
3,024,139
3,048,504
3,057,759
17: 3,056,700
21: 3,041,212
3,063,874
22: 3,027,280
3,037,887
3,067,069
23: 3,047,436
24: 3,052,574
25: 3,043,724
3,065,114
26: 3,021,235
3,030,238
27: 3,067,070
28: 3,019,139
3,034,933
3,063,875
29: 3,030,239
30: 3,019,140
34: 3,033,712
36: 3,015,588
41: 3,032,446
3,070,464
42: 3,015,589
45: 3,043,317
46: 3,021,851
3,022,790
56: 3,024,793
3,036,582
57: 3,019,799
3,023,756
57: 3,029,825
3,029,826
3,038,481
3,049,132
3,049,133
3,062,223
58: 3,020,917
3,028,869
3,028,870
3,034,518
3,060,944
3,062,224
3,063,459
3,064,661
3,068,875
60: 3,056,414
63: 3,048,182
3,060,945
64: 3,052,244
65: 3,032,043
69: 3,062,225
70: 3,022,791
72: 3,049,134
3,049,135
73: 3,044,474
77: 3,024,794
79: 3,019,800
80: 3,058,478
86: 3,017,891
89: 3,059,653
93: 3,029,827
94: 3,019,801
3,067,756
95: 3,019,802
3,034,519
3,049,136
3,064,662
3,068,876
98: 3,020,918
3,033,215
3,051,182
111: 3,032,044
3,054,411
3,067,757
112: 3,060,946
3,062,226
114: 3,067,758
115: 3,025,864
116: 3,059,654
122: 3,025,865
3,026,884
3,066,686
125: 3,053,265
3,064,663
131: 3,043,319
137: 3,035,589
3,050,073
3,054,412
138: 3,037,516
144: 3,052,245
3,058,470
145: 3,070,104
147: 3,040,754
148: 3,066,687
152: 3,047,000
3,049,137
155: 3,052,246
156: 3,070,105
157: 3,026,885
167: 3,034,522
3,065,760
168: 3,022,792
3,062,227
169: 3,039,477
3,040,755
174: 3,051,183
176: 3,017,892
3,064,664
3,064,665
3,067,759
182: 3,064,666
183: 3,051,184
186: 3,055,378
3,060,947
3,060,948
191: 3,052,247
199: 3,052,248

Class 135

1: 3,018,782
3,020,919
1: 3,021,852
3,023,758
3,024,796
3,028,871
3,030,972
3,035,590
3,042,050
3,042,051
3,042,052
3,043,320
3,044,476
3,050,074
3,052,249
3,052,250
3,055,379
3,055,380
3,057,368
3,058,480
3,059,655
3,059,656
3,059,657
3,060,949
2: 3,044,477
3: 3,035,591
3,039,478
3,040,756
3,051,185
4: 3,019,803
3,036,583
3,037,517
3,054,413
3,056,415
3,059,658
3,070,106
5: 3,018,783
3,025,866
3,026,886
3,032,045
3,034,523
3,042,053
3,048,183
3,050,075
3,052,251
3,070,107
6: 3,018,784
3,030,973
3,032,046
3,059,659
7.1: 3,017,893
3,055,381
3,064,667
14: 3,028,872
15: 3,021,853
16: 3,038,483
19.5: 3,042,054
20: 3,042,055
3,044,478
3,053,266
22: 3,016,910
32: 3,021,854
33: 3,042,056
34: 3,055,382
35: 3,032,047
47: 3,029,828
47.5: 3,032,048
49: 3,026,887
50: 3,016,060
3,034,524
64: 3,040,757

Class 136

3: 3,069,484
4: Re.25,242
3,016,412
3,017,444
3,017,445
3,018,311
3,019,278
3,020,325
3,022,360
3,022,361
3,022,362
3,023,257
3,024,295
3,026,363
3,035,109
3,036,139
3,038,950
3,038,951
3,040,113
3,041,387
3,046,321
3,048,641
3,048,642
3,048,643
3,049,577
3,053,922
3,053,923
3,054,840
3,054,841
3,055,960
3,055,961
3,056,848
3,057,939
4: 3,057,940
3,057,941
3,060,251
3,060,252
3,061,656
3,064,063
3,064,064
3,065,286
3,070,643
3,070,644
3,070,645
5: 3,017,446
3,018,312
3,020,326
3,021,378
3,031,516
3,033,907
3,037,064
3,037,065
3,045,057
3,046,322
3,050,574
3,050,575
3,051,767
3,054,842
3,055,962
3,059,040
3,060,253
3,061,657
3,066,177
6: 3,022,363
3,023,258
3,023,259
3,031,517
3,032,600
3,037,066
3,043,896
3,050,576
3,057,942
3,057,943
3,059,041
3,064,065
3,069,485
13: 3,023,260
19: 3,023,261
3,065,287
29: 3,057,944
24: 3,024,296
3,041,388
3,051,768
3,060,254
3,062,908
3,066,178
3,068,310
26: 3,017,447
3,017,448
27: 3,033,908
3,050,577
3,067,273
30: 3,042,732
3,049,578
3,053,924
3,069,486
33: 3,038,018
43: 3,064,066
45: 3,016,413
51: 3,055,963
59: 3,033,909
70: 3,053,925
76: 3,055,964
83: 3,038,019
3,040,114
3,043,897
3,048,644
3,056,949
3,057,945
3,066,179
86: 3,025,334
3,026,364
3,031,518
3,043,898
3,057,946
3,061,658
3,062,909
3,068,311
89: 3,018,313
3,025,335
3,031,519
3,031,520
3,037,067
3,038,952
3,046,323
3,046,324
3,053,926
3,053,927
3,055,965
3,057,947
3,069,487
90: 3,017,449
3,018,314
3,022,364
3,022,365
3,036,140
3,046,325
3,052,744
90: 3,053,928
3,057,948
3,061,659
3,067,274
100: 3,025,336
3,026,365
3,036,141
3,036,142
3,048,645
3,060,255
103: 3,019,279
3,060,256
107: 3,016,414
108: 3,043,899
110: 3,042,733
111: 3,015,681
3,064,067
3,065,288
116: 3,069,488
120: 3,020,327
3,023,262
3,033,910
3,040,115
3,046,326
133: 3,042,734
3,051,769
3,061,660
3,062,910
3,068,312
3,068,313
3,069,489
135: 3,048,646
3,061,661
137: 3,057,760
138: 3,053,701
139: 3,024,297
144: 3,018,316
145: 3,021,379
3,022,366
3,026,366
3,035,110
3,036,143
146: 3,022,367
3,045,058
3,048,647
3,054,843
3,055,966
153: 3,036,144
3,038,953
3,065,289
3,067,275
154: 3,019,945
155: 3,019,141
160: 3,040,116
162: 3,052,745
163: 3,018,315
164: 3,027,276
166: 3,061,662
168: 3,064,068
173: 3,045,059
3,050,850
3,062,911
3,064,069
175: 3,040,117
3,057,949
177: 3,020,328
3,033,911
179: 3,038,954
181: 3,018,317
3,029,301
3,042,735

Class 137

1: 3,034,525
3,034,526
3,062,228
3: 3,023,759
3,029,829
3,039,479
3,060,950
8: 3,027,901
9: 3,040,758
12: 3,066,688
13: 3,023,760
3,026,888
3,040,760
15: 3,038,484
18: 3,026,889
25: 3,051,186
3,063,460
27: 3,052,252
28: 3,058,481
29: 3,059,660
33: 3,016,911
34: 3,039,480
37: 3,027,902
38: 3,021,855
3,024,797
3,049,138
39: 3,059,661
43: 3,016,912
3,021,856
3,064,668
46: 3,043,321
48: 3,049,139
50: 3,020,920
51: 3,048,184
3,064,669
54: Re.25,174
3,035,592
3,043,322
56: Re.25,210
3,023,761
3,026,890
3,026,891
107: 3,032,049
3,035,593
3,040,761
111: 3,045,686
3,045,687
3,053,267
116: 3,068,578
120: 3,060,951
63: 3,028,873
3,035,594
3,040,762
3,045,688
3,047,001
3,050,076
3,054,414
3,067,760
64: 3,019,804
3,036,584
3,039,481
3,063,461
3,070,108
66: 3,020,921
3,021,857
3,045,689
3,045,690
67: 3,043,323
3,060,952
68: 3,022,793
3,027,903
3,032,050
3,033,216
3,038,485
3,039,482
3,040,763
3,044,179
3,049,140
3,054,415
3,057,369
3,060,953
3,065,289
69: 3,017,894
70: 3,042,057
71: 3,035,595
73: 3,040,764
3,040,765
3,066,689
74: 3,023,762
3,052,253
75: 3,015,337
81: 3,016,061
3,045,691
3,068,879
82: 3,025,867
3,026,892
3,027,904
3,029,830
3,033,217
3,042,058
3,054,416
3,056,416
3,068,880
83: 3,019,805
3,039,483
85: 3,021,858
3,023,763
3,025,868
3,044,480
3,047,002
3,052,254
3,055,383
3,055,384
86: 3,056,417
87: 3,026,661
3,043,324
89: 3,042,059
92: 3,070,110
95: 3,058,482
98: Re.25,212
3,023,764
99: 3,038,486
3,054,417
99.5: 3,033,218
100: 3,015,338
3,030,974
3,033,219
3,047,003
101: 3,021,859
3,024,798
3,060,953
101.19: 3,036,585
101.21: 3,070,111
101.25: 3,042,060
3,047,004
102: 3,015,339
3,023,765
3,025,869
3,027,905
3,032,052
3,034,527
3,040,766
3,042,061
3,065,761
3,070,112
103: 3,048,185
107: 3,018,785
3,027,906
3,027,907
108: 3,049,141
3,065,762
3,067,761
109: 3,027,908
110: 3,051,187
111: 3,032,053
3,040,759
3,048,186
112: 3,038,487
3,042,062
3,043,325
3,043,326
3,043,327
3,043,328
113: 3,033,220
114: 3,048,481
3,049,142
115: 3,017,895
3,020,922
3,042,063
3,047,005
116: 3,035,596
3,068,881
3,068,882
3,070,113
116.3: 3,022,794
116.5: 3,042,054
3,042,064
3,059,662
3,064,670
3,068,883
118: Re.25,211
3,018,786
119: 3,026,893
3,033,221
3,051,188
3,054,418
122: 3,060,954
124: 3,015,340
3,021,860
142: 3,019,806
3,064,671
146: 3,041,418
147: 3,064,672
152: 3,033,222
155: Re.25,292
3,042,065
3,051,690
171: 3,035,597
172: 3,068,884
183: 3,037,518
192: 3,021,861
3,053,268
199: 3,019,807
202: 3,018,787
3,044,482
3,054,419
3,060,955
203: 3,067,762
205.5: 3,021,862
3,060,956
3,068,885
207: 3,024,799
209: 3,021,863
3,024,800
3,056,419
210: 3,070,114
212: 3,032,055
3,036,586
216: 3,061,691
217: 3,025,870
218: 3,023,766
3,023,767
219: 3,027,909
3,030,587
3,038,488
3,060,957
220: 3,032,056
223: 3,063,462
3,065,763
225: 3,038,588
227: 3,022,795
228: 3,063,463
236: 3,021,864
238: 3,025,871
239: 3,044,483
240: 3,026,894
3,035,598
3,035,599
3,045,692

241: 3,063,464
242: 3,051,189
243: 3,047,006
245: 3,056,420
246: 3,019,808
246.11: 3,042,066
3,067,763
246.12: 3,026,895
3,033,223
3,033,224
3,037,519
246.13: 3,033,225
3,052,255
246.18: 3,051,190
246.22: 3,030,975
3,034,528
247: 3,035,600
259: 3,040,767
260: 3,062,229
266: 3,035,601
3,068,886
270: 3,016,062
3,021,865
3,026,896
3,030,976
3,036,589
3,037,520
3,052,256
3,063,465
271: 3,024,801
282: 3,017,896
290: 3,023,768
296: 3,070,115
302: 3,070,116
307: 3,063,466
312: 3,016,913
3,050,077
315: 3,026,897
3,033,226
3,034,529
3,035,602
3,036,590
3,037,521
3,038,489
3,042,067
3,042,068
3,045,693
3,047,007
3,047,008
3,052,257
3,053,269
3,056,421
3,057,370
3,058,483
3,064,674
3,067,764
316: Re.25,272
3,020,923
318: 3,038,490
321: 3,043,329
323: 3,035,603
327: 3,035,604
328: 3,033,227
3,045,694
3,058,484
329.01: 3,068,887
329.03: 3,023,769
330: 3,040,768
3,059,663
331: 3,018,788
332: 3,051,191
337: 3,065,764
340: 3,019,809
3,028,871
3,030,977
3,068,888
341: 3,018,789
355.16: 3,032,057
355.19: 3,060,975
356: 3,059,664
359: 3,026,898
3,043,330
360: 3,029,831
3,070,117
375: 3,024,802
3,026,899
376: 3,067,765
381: 3,055,385
382: 3,035,605
3,042,069
386: 3,020,924
3,067,766
3,068,889
390: Re.25,236
3,049,143
391: 3,023,770
3,028,875
3,029,832
3,049,144
3,051,192
397: 3,027,910
398: 3,025,872
3,056,422
403: 3,047,009
3,055,386
403: 3,058,485
408: 3,035,606
3,066,692
413: 3,062,230
414: 3,029,833
3,049,145
416: 3,055,387
420: 3,040,769
423: 3,062,231
426: 3,036,591
3,038,491
436: 3,070,118
437: 3,041,187
444: 3,026,900
448: 3,042,070
450: 3,051,193
451: 3,057,371
453: 3,038,492
454.2: 3,023,771
3,025,873
3,026,901
3,039,484
3,066,693
454.5: 3,042,071
3,052,258
454.6: 3,018,790
3,022,796
3,040,770
3,042,072
458: 3,018,791
3,021,866
3,043,331
460: 3,070,119
461: 3,067,767
467: 3,036,592
467.5: 3,023,772
468: 3,032,058
3,051,194
3,067,768
469: 3,018,792
3,027,911
3,036,593
3,044,484
3,048,188
3,053,270
3,054,420
3,055,388
478: 3,027,912
483: 3,035,485
3,067,769
484.2: 3,026,902
3,027,913
3,053,271
484.4: 3,043,332
487: 3,055,389
489: 3,039,486
3,047,010
489.3: 3,040,771
489.5: 3,020,925
3,054,421
3,064,675
490: 3,033,228
3,047,011
493: 3,015,341
3,067,770
493.2: 3,037,522
493.7: 3,044,485
3,056,423
493.8: 3,060,958
494: 3,033,229
3,064,673
3,067,771
3,067,772
3,068,890
495: 3,019,810
3,020,926
3,023,773
3,042,073
3,062,232
498: 3,060,959
499: 3,068,891
3,068,892
501: 3,024,803
3,028,876
3,051,195
3,064,676
505.13: 3,053,272
3,053,273
505.18: 3,035,607
505.25: 3,038,493
505.36: 3,066,694
505.41: 3,035,608
505.42: 3,044,486
505.46: 3,056,424
506: 3,035,609
3,043,333
509: 3,028,877
3,040,772
3,042,074
3,045,695
3,054,422
510: 3,052,259
3,068,893
512: 3,030,978
3,033,230
512: 3,053,274
3,059,665
3,059,666
512.1: 3,015,342
3,053,275
512.15: 3,024,804
3,047,012
3,066,695
513.3: 3,032,059
513.5: 3,066,696
514: 3,037,523
3,044,487
3,044,488
3,060,960
514.5: 3,029,834
515: 3,016,914
515.5: 3,029,835
3,058,486
515.7: 3,027,914
516.11: 3,039,487
516.15: 3,027,915
3,032,060
3,055,390
516.19: 3,058,487
516.21: 3,056,425
516.25: 3,055,391
516.29: 3,039,488
3,051,196
3,057,372
3,063,467
3,070,120
517: 3,049,146
521: 3,057,373
523: 3,070,121
525: 3,070,122
525.1: 3,047,013
527.1: 3,038,494
527.4: 3,060,961
529: 3,017,897
3,032,061
532: 3,034,530
533.13: 3,026,903
3,059,667
536: 3,036,594
538: 3,057,374
539: 3,042,075
540: 3,025,874
543.13: 3,019,811
552.5: 3,057,375
3,063,468
553: 3,023,774
3,023,775
556: 3,026,904
3,028,878
3,028,879
3,064,677
556.3: 3,040,773
3,044,489
557: 3,019,812
3,025,875
3,027,916
3,029,836
3,042,076
559: 3,038,495
561: 3,033,231
562: 3,055,392
3,064,678
564.5: 3,025,876
3,029,837
3,040,774
3,064,679
565: 3,021,867
3,052,260
568: 3,050,079
571: 3,029,838
580: 3,019,813
585: 3,070,123
586: 3,048,189
587: 3,023,776
3,060,962
588: 3,043,334
590: 3,017,898
592: 3,062,233
593: 3,032,062
594: 3,057,376
3,068,895
3,068,896
595: 3,016,915
3,018,793
596: 3,036,595
3,058,488
3,060,963
596.2: 3,029,839
3,036,596
597: Re.25,155
3,016,063
3,024,805
3,053,276
3,053,277
599: 3,060,964
599.2: 3,022,797
3,032,063
3,060,965
601: 3,017,899
3,034,531
3,060,966
604: 3,016,916
3,024,806
3,042,077
3,064,680
606: 3,022,798
607: 3,019,814
3,021,868
3,045,696
3,047,014
608: 3,039,489
609: 3,029,840
3,038,496
3,045,697
3,054,423
610: 3,039,490
612.1: 3,019,815
3,037,524
613: 3,024,807
3,067,773
614.05: 3,052,261
614.17: 3,047,015
3,050,080
3,067,775
614.21: 3,053,278
615: 3,047,016
620: 3,016,064
3,016,917
3,016,918
30,17,900
3,018,794
3,023,777
3,025,877
3,029,841
3,032,064
3,036,597
3,047,017
3,068,897
3,070,124
621: 3,016,919
3,019,816
3,021,869
3,035,610
3,060,967
3,064,681
622: Re.25,147
3,017,901
3,020,927
3,023,778
3,024,808
3,024,809
3,024,810
3,025,878
3,028,880
3,032,065
3,033,232
3,033,233
3,038,497
3,044,490
3,049,147
3,051,197
3,052,262
3,053,279
3,053,280
3,055,393
3,060,968
3,068,898
622.5: 3,050,081
623: 3,015,343
3,016,065
3,018,795
3,023,779
3,023,780
3,023,781
3,023,782
3,024,811
3,025,879
3,027,917
3,033,234
3,035,611
3,036,598
3,038,498
3,040,775
3,043,335
3,060,969
3,062,235
3,064,682
3,065,145
3,068,899
3,068,900
624: 3,015,344
3,021,005
3,036,599
3,052,263
3,056,426
3,066,697
624.11: 3,024,812
3,048,190
624.13: 3,027,918
3,067,774
624.14: 3,016,066
3,030,979
624.14: 3,045,698
3,045,699
3,053,765
624.15: 3,033,236
624.18: 3,019,817
625.11: Re.25,248
3,050,082
625.12: 3,018,796
3,021,870
3,023,783
3,036,600
625.15: 3,040,777
625.17: 3,023,784
3,026,907
3,030,980
3,035,612
3,049,149
625.18: 3,029,842
3,044,491
3,050,083
3,057,378
625.2: 3,064,683
625.25: 3,044,492
3,047,018
3,060,970
3,067,775
625.27: 3,016,920
3,022,799
3,038,500
3,043,336
3,051,198
3,070,125
625.28: 3,033,235
3,047,019
3,062,237
625.29: 3,037,525
3,045,700
3,055,394
625.3: 3,042,078
625.32: 3,044,493
3,048,191
3,049,150
3,050,084
625.33: 3,025,880
625.4: 3,026,906
3,040,776
3,049,148
3,064,684
625.41: 3,039,492
3,043,337
625.42: 3,045,701
3,048,192
625.43: 3,032,066
625.44: 3,039,493
625.46: 3,047,020
625.48: 3,045,702
3,068,901
625.5: 3,038,499
3,039,491
3,057,377
627.5: 3,018,797
3,018,798
3,025,881
3,026,908
3,034,532
3,044,494
3,045,703
3,048,193
3,054,424
3,054,425
3,058,489
3,063,469
628: 3,030,981
3,052,264
3,068,902
630: 3,032,067
630.15: 3,040,778
3,048,194
630.19: 3,030,982
630.22: 3,068,903
636.1: 3,044,495
3,047,021
3,055,395
636.4: 3,037,526
637: 3,034,533
3,048,195
637.2: 3,032,068
3,070,126
637.4: 3,037,527
779: 3,050,085
3,053,281
781: 3,034,534
784: 3,043,338
3,047,022
3,066,698
786: 3,058,490
3,062,238
787: 3,064,685
788: 3,043,339
790: 3,022,800
3,034,535
793: 3,023,785
3,026,909
3,045,704
795: 3,060,971
796: 3,030,983

Class 138

26: 3,018,799
30: 3,019,818
3,020,928
3,028,881
3,035,613
3,035,614
3,038,501
3,063,470
3,065,766
3,066,699
3,066,700
3,066,701
3,067,776
31: 3,015,345
3,023,786
3,043,340
3,043,341
3,047,023
3,055,396
3,064,686
3,064,687
3,070,127
37: 3,017,902
3,068,904
38: 3,016,067
3,016,921
3,068,905
39: Re.25,153
41: 3,058,491
42: 3,042,079
44: 3,026,910
3,051,199
3,067,777
45: 3,017,903
3,045,705
3,050,086
3,062,239
46: 3,025,882
3,037,528
3,054,426
3,055,397
89: 3,020,929
3,022,801
3,025,883
3,032,069
3,036,601
3,039,494
3,044,496
3,051,200
3,062,240
3,065,767
3,070,128
3,070,129
90: 3,054,427
92: 3,025,884
93: 3,019,819
94: 3,016,922
3,025,885
94.3: 3,033,237
3,047,024
3,051,201
3,058,492
3,063,471
96: 3,038,502
3,056,427
97: 3,040,779
3,052,265
3,070,130
99: 3,043,342
3,053,282
100: 3,042,080
106: 3,045,707
3,045,708
3,047,025
109: 3,037,529
111: 3,053,283
3,055,398
3,066,702
115: 3,053,731
118: 3,021,871
3,056,428
3,070,132
120: 3,060,972
121: 3,019,820
3,023,787
3,044,497
3,050,087
3,053,284
122: 3,029,843
3,047,026
3,058,493
125: 3,018,800
3,022,802
3,062,241
126: 3,056,429
3,060,973
3,068,906
137: 3,024,813
141: 3,033,238
3,054,428
3,062,242
142: 3,040,780
143: 3,044,498
3,044,499
145: 3,039,495
3,040,781
3,045,709
148: 3,065,768
149: 3,032,070
155: 3,038,503
157: 3,055,399
158: 3,043,344
3,058,494
159: 3,063,471
176: 3,034,536
3,034,537
3,052,266

Class 139

1: 3,034,538
11: 3,016,068
3,050,430
28: 3,059,668
29: 3,018,801
30: 3,068,907
33: 3,032,071
34: 3,054,429
35: 3,033,239
43: 3,060,974
46: 3,016,923
3,042,081
51: 3,016,924
3,033,955
52: 3,015,346
54: 3,047,027
57: 3,047,028
71: 3,057,379
79: 3,028,911
82: 3,020,930
85: 3,055,400
88: 3,047,029
3,053,284
92: 3,063,925
93: 3,016,926
3,049,151
96: 3,064,688
122: 3,016,927
3,025,886
3,034,539
3,034,540
123: 3,056,431
124: 3,058,496
3,064,689
3,067,703
126: 3,040,782
3,050,088
127: 3,024,814
3,065,769
3,067,770
142: 3,026,912
147: 3,020,931
155: 3,064,690
156: 3,025,887
158: 3,043,343
159: 3,020,932
161: 3,052,267
165: 3,048,196
166: 3,020,933
185: Re.25,198
3,028,882
188: 3,053,285
191: 3,017,904
198: 3,037,530
200: 3,020,934
207: 3,015,347
3,048,197
217: 3,042,082
231: 3,053,286
245: 3,043,345
256: 3,016,069
257: 3,023,788
3,025,888
3,067,778
263: 3,062,243
270: 3,062,243
281: 3,028,883
303: 3,043,346
304: 3,066,704
317: 3,060,975
319: 3,026,913
336: 3,047,030
3,070,133
336.4: 3,016,070
370: 3,049,152
374: 3,066,705
383: 3,037,532
3,039,496
3,067,779
384: 3,022,803
3,048,198
3,068,908
385.5: 3,053,287
388: 3,020,935
391: 3,033,240
396: 3,070,134

Class 139—Con.
399: 3,027,919
402: 3,028,884
3,034,541
3,038,504
3,055,401
403: 3,045,710
408: 3,045,711
419: 3,064,691
420: 3,016,071
3,019,821
3,036,602
422: 3,032,072
424: 3,062,244
425: 3,056,432
426: 3,049,153
3,052,268

Class 140
1: 3,062,245
2: 3,056,433
3,056,434
3: 3,063,472
3,070,135
60: 3,021,872
71: 3,018,802
3,019,822
3,020,936
3,020,937
3,021,873
3,022,804
3,024,815
3,025,889
3,025,890
3,025,891
3,027,920
3,030,985
3,038,505
3,045,712
3,048,199
3,048,200
3,049,154
3,049,155
3,049,156
3,057,380
3,057,381
3,060,976
71.5: 3,018,803
3,029,844
3,033,241
3,034,542
3,037,533
3,045,713
3,048,201
3,054,430
3,059,669
3,064,692
71.6: 3,033,242
3,039,497
3,058,497
3,063,473
3,063,474
3,068,909
81.5: 3,047,031
88: 3,048,202
90: 3,051,202
92.1: 3,036,603
3,053,288
3,063,475
3,065,771
92.2: 3,021,874
3,032,073
3,040,783
3,065,772
92.7: 3,026,914
3,053,289
3,064,693
92.94: 3,045,714
93: 3,021,875
3,022,805
3,023,789
3,025,892
3,032,074
3,056,435
93.4: 3,021,876
3,032,075
93.6: 3,037,534
101: 3,043,347
102: 3,033,243
3,039,498
3,050,089
103: 3,032,076
3,040,784
3,067,780
105: 3,044,501
3,064,694
107: 3,048,203
112: 3,045,715
3,063,476
113: 3,017,905
115: 3,037,535
118: 3,033,244
119: 3,017,906
3,026,915
3,065,773
3,070,136
122: 3,030,984
123.6: 3,028,885
3,048,204
3,066,706
124: 3,064,695
147: 3,027,921
3,028,886
3,029,845
149: 3,049,157
3,059,670
3,067,781
3,067,782

Class 141
5: 3,058,498
3,063,477
7: 3,037,536
3,045,716
9: 3,058,499
12: 3,045,717
18: 3,039,499
3,040,785
20: 3,027,922
3,055,402
3,064,696
21: 3,034,543
22: 3,020,588
26: 3,039,500
27: 3,067,783
3,067,784
28: 3,033,245
30: 3,038,506
37: 3,045,718
38: 3,021,877
3,043,348
3,065,774
39: 3,032,077
3,043,349
40: 3,068,910
45: 3,016,928
57: 3,067,785
59: 3,056,436
62: 3,032,078
65: 3,021,878
3,028,887
3,029,846
3,063,478
71: 3,060,977
73: 3,043,350
82: 3,023,790
83: 3,024,816
3,057,382
3,064,697
85: 3,044,500
93: 3,055,403
95: 3,032,079
99: 3,047,032
103: 3,016,072
104: 3,039,847
3,045,719
114: 3,052,269
115: 3,062,246
3,068,911
117: 3,038,507
119: 3,044,502
128: 3,025,893
3,060,978
129: 3,066,707
131: 3,040,786
3,065,775
141: 3,048,205
143: 3,040,787
144: 3,055,404
145: 3,045,720
150: 3,050,090
159: 3,020,939
3,036,604
179: 3,067,786
197: 3,017,907
3,026,916
207: 3,055,405
208: 3,033,246
3,042,083
209: 3,020,940
3,035,615
3,062,247
225: 3,042,084
226: 3,070,137
263: 3,016,929
270: 3,023,791
271: 3,068,912
279: 3,062,248
284: 3,047,033
286: 3,018,804
293: 3,044,503
3,044,504
294: 3,044,505
297: 3,032,080
308: 3,033,247
311: 3,047,034
321: 3,067,787
329: 3,035,616
330: 3,059,671
346: 3,034,544
3,045,721
348: 3,045,722
349: 3,035,617
351: 3,033,248
352: 3,039,501
353: 3,042,085
3,059,672
360: 3,020,941
361: 3,016,930
362: 3,032,081
369: 3,025,894
3,033,249
370: 3,050,091
371: 3,048,206
381: 3,045,723
387: 3,050,092
388: 3,032,082
390: 3,042,086

Class 142
47: 3,034,545

Class 143
1: 3,062,249
6: 3,021,879
3,023,792
3,026,917
3,045,724
26: 3,068,913
32: 3,026,918
3,042,087
3,042,088
3,044,506
3,051,203
3,053,290
3,059,673
3,066,708
41: 3,036,605
43: 3,043,351
46: 3,016,931
3,063,479
47: 3,019,823
3,044,507
48: 3,063,480
49: 3,053,291
68: 3,016,932
3,045,725
3,050,093
3,056,437
89: 3,028,888
91: 3,034,546
92: 3,033,250
99: 3,043,352
101: 3,040,788
118: 3,021,880
3,056,438
3,068,914
120: 3,032,083
3,066,709
132: 3,060,979
3,066,710
133: 3,017,908
3,028,889
3,033,251
3,048,207
135: 3,020,942
3,036,606
3,040,789
3,050,094
3,066,711
156: 3,028,890
157: 3,017,909
3,033,252
3,045,726
159: 3,040,790
3,042,089
3,043,353
3,063,481
162: 3,038,508
3,064,698
169: 3,051,204
174: 3,021,881
3,059,674

Class 144
1: 3,052,270
3,056,439
2: 3,015,348
3,019,824
3,030,986
3,044,508
3,044,509
3,068,915
3: 3,029,848
3,060,980
12: 3,068,916
27: 3,024,817
3,035,618
3,038,509
3,053,292
3,053,293
3,068,917
32: 3,021,882
3,034,547
3,034,548
3,052,271
34: 3,033,253
35: 3,016,933
42: 3,030,987
50: 3,017,910
73: 3,039,502
85: 3,037,383
92: 3,045,727
105: 3,016,073
117: Re.25,296
3,067,788
127: 3,063,482
129: 3,035,619
134: 3,060,981
136: 3,034,549
3,065,776
162: 3,044,510
172: 3,025,895
193: 3,038,510
3,050,095
208: 3,016,074
3,017,911
3,019,825
3,020,943
3,026,919
3,028,891
3,037,537
3,045,728
3,047,035
3,049,158
3,053,294
3,058,500
3,059,675
3,066,712
209: 3,036,607
3,037,538
3,040,791
3,044,511
3,052,272
213: 3,055,406
216: 3,019,826
230: 3,017,912
3,039,503
3,059,676
246: 3,068,918
251: 3,068,919
252: 3,022,806
253: 3,060,982
256: 3,027,923
266: 3,063,483
281: 3,038,511
3,068,920
282: 3,056,440
285: 3,036,608
286: 3,070,138
288: 3,016,934
3,030,988
3,036,609
3,042,090
3,042,091
3,049,159
3,050,096
3,063,484
3,067,789
309: 3,024,818
3,059,677
315: 3,063,485
318: 3,015,349
3,057,384
320: 3,024,819
323: 3,024,820
324: 3,070,139
326: 3,032,084
3,053,295

Class 145
12: 3,028,892
17: 3,068,921
29: 3,030,989
3,067,790
33: 3,060,983
36: 3,019,827
3,040,792
3,042,092
50: 3,025,896
3,026,920
3,033,254
3,037,539
3,044,513
52: 3,056,441
3,068,922
64: 3,034,550
75: 3,056,442
117: 3,051,205
3,064,699

Class 146
1: 3,065,777
2: 3,029,849
3,036,610
3,036,611
3,055,407
3,058,501
3: 3,016,075
3,030,990
3,045,729
3,060,984
3,070,140
8: 3,032,085
11: 3,059,678
13: 3,048,208
3,064,700
14: 3,019,828
15: 3,049,160
16: 3,065,778
3,066,713
28: 3,016,935
3,018,805
3,035,620
3,045,730
3,047,731
3,045,732
43: 3,057,385
3,058,502
3,067,791
47: 3,016,936
49: 3,024,821
3,059,679
51: 3,039,504
52: 3,016,076
3,024,822
3,030,991
3,036,612
3,055,408
3,059,680
55: 3,036,613
56: 3,028,893
68: 3,036,614
72: 3,016,937
73: 3,051,206
76: 3,065,779
78: 3,030,992
3,042,093
3,053,296
3,054,431
3,057,386
81: 3,017,913
3,029,850
3,045,733
83: 3,062,250
94: 3,015,350
3,027,924
102: 3,031,207
3,066,714
103: 3,054,432
106: 3,032,086
107: 3,027,925
3,035,621
3,040,794
117: 3,019,829
3,020,944
119: 3,039,505
123: 3,037,540
125: 3,032,087
150: 3,018,806
3,058,503
153: 3,028,894
160: 3,029,851
169: 3,033,255
174: 3,018,807
3,024,823
3,033,256
182: 3,030,993
3,035,622
3,063,486
3,064,701
186: 3,036,615
192: 3,044,514
3,051,208
3,053,297
215: 3,030,994
221.9: 3,054,433
227: 3,022,807
234: 3,017,298
236: 3,018,808
3,030,995
238: 3,040,795
239: 3,057,387

Class 147
19: 3,062,251

Class 148
1.5: 3,015,590
3,015,591
3,016,313
1.5: 3,019,142
3,024,140
3,029,170
3,036,937
3,041,213
3,041,214
3,043,725
3,043,726
3,044,909
3,047,437
3,047,438
3,049,451
3,054,701
3,062,690
3,063,876
3,065,116
3,065,116
3,066,051
3,066,052
3,066,053
3,067,071
3,068,127
3,069,297
3,070,465
3,070,466
3,070,467
1.6: 3,015,592
3,025,191
3,027,281
3,046,164
3,058,554
3,060,065
4: 3,043,727
3,061,481
6: 3,061,482
6.1: 3,043,143
3,026,220
3,057,761
3,058,855
3,066,054
6.14: 3,038,824
3,039,898
3,039,899
3,041,215
3,042,558
3,052,575
3,061,483
6.15: 3,015,593
3,015,594
3,042,554
3,046,165
3,051,595
3,060,066
6.16: 3,061,484
3,063,877
6.2: 3,032,447
3,053,702
6.21: 3,031,300
6.27: 3,066,055
9: 3,035,946
3,037,888
3,069,298
9.5: 3,035,947
11.5: 3,034,934
3,046,166
12: 3,053,703
3,067,072
12.7: 3,019,144
3,032,448
13: 3,016,314
3,021,236
3,028,268
3,060,067
3,063,878
3,065,117
3,067,073
13.1: 3,017,299
3,037,889
3,061,485
13.2: 3,036,938
15.5: 3,022,204
16: 3,030,240
3,058,856
20.3: 3,039,901
3,053,704
3,070,468
20.6: 3,022,205
23: 3,030,241
3,030,242
3,033,713
24: 3,031,315
26: 3,023,133
3,031,346
3,068,128
28: 3,053,705
31: 3,053,706
31.55: 3,034,935
32.5: 3,042,555
33: 3,025,192
3,033,714
3,047,439
3,057,762
3,063,879
38: 3,029,171
3,062,692
100: 3,024,141
108: 3,024,142
111: 3,021,237
3,042,556
3,061,486
3,069,299
113: 3,039,902
120: 3,052,576
3,058,857
122: 3,065,118
127: 3,028,269
134: 3,062,693
135: 3,046,167
3,061,119
137: 3,048,505
139: 3,055,779
143: 3,028,270
3,048,506
3,051,487
144: 3,042,557

Class 149
1: 3,021,238
2: 3,031,289
5: 3,061,488
3,070,469
6: Re.25,277
7: 3,032,449
3,032,450
3,039,903
8: 3,047,440
3,053,707
15: 3,036,701
18: 3,020,180
3,023,094
3,026,191
3,063,880
19: 3,018,201
3,018,202
3,018,203
3,018,204
3,020,181
3,022,149
3,032,143
3,024,144
3,027,282
3,027,283
3,027,284
3,028,271
3,031,288
3,034,936
3,035,948
3,036,939
3,041,216
3,044,910
3,049,452
3,050,423
3,052,577
3,053,708
3,053,709
3,054,702
3,055,780
3,055,781
3,056,702
3,056,703
3,058,858
3,062,694
3,066,057
3,067,074
3,067,075
3,067,076
3,068,129
3,070,470
20: 3,024,453
3,055,782
3,070,471
22: 3,057,763
3,069,300
3,070,472
36: 3,028,272
3,061,489
37: 3,044,911
38: 3,035,950
39: 3,026,221
40: 3,028,229
41: 3,017,300
42: 3,030,243
3,046,168
45: 3,017,301
3,053,710
46: 3,028,273
47: 3,042,559
48: 3,031,347
60: 3,017,260
3,022,206
3,044,912
3,052,578
64: 3,048,507
78: 3,036,940
87: 3,019,145
89: 3,070,473
92: 3,049,454

96: 3,033,715
3,033,716
3,037,890
97: 3,037,891
98: 3,028,274
100: 3,033,717
3,033,718
109: 3,031,348
3,032,451
3,034,937
3,047,441
3,066,058

Class 150

.5: 3,016,938
3,043,354
1: 3,028,895
3,028,896
3,028,897
3,028,898
3,029,852
3,033,257
3,036,616
3,044,515
1.5: 3,053,298
3,058,504
3,058,505
1.6: 3,021,883
3,023,793
3,023,794
3,034,551
3,057,388
2.1: 3,028,899
3: 3,020,945
3,054,434
3,060,985
7: 3,043,355
9: 3,051,209
11: 3,029,853
12: 3,039,506
28: 3,051,130
29: 3,048,209
3,060,986
33: 3,016,939
35: 3,068,923
3,070,141
36: 3,058,506
37: 3,063,487
38: 3,048,210
39: 3,029,854
3,067,792
40: 3,016,940
3,067,793
3,070,142
42: 3,026,921
47: 3,032,088
3,045,734
48: 3,035,623
3,060,987
49: Re.25,287
50: 3,038,512
3,058,507
52: 3,015,351
3,022,808
3,023,795
3,024,824
3,029,555
3,033,258
3,033,259
3,034,552
3,037,541
3,038,513
3,044,516
3,044,517
3,051,210
3,052,273
3,053,299
3,054,435
3,055,409
3,059,681
3,067,794

Class 151

7: 3,030,997
3,040,796
8: 3,021,884
14: 3,023,796
3,039,507
19: 3,030,996
21: 3,029,856
3,037,542
23: 3,039,508
24: 3,023,797
29: 3,022,809
31: 3,042,094
35: 3,032,089
36: 3,054,436
37: 3,049,161
38: 3,016,941
3,056,443
3,062,252
41.7: 3,033,260
41.7: 3,045,735
3,045,736
3,068,924
41.71: 3,020,946
41.72: 3,053,300
41.73: 3,047,036
41.74: 3,025,897
41.75: 3,020,947
3,035,624
3,050,097
3,060,988
69: 3,062,253
70: 3,016,077

Class 152

5: 3,058,508
7: 3,062,254
10: 3,033,261
3,063,488
41: 3,018,809
89: 3,044,518
157: 3,022,810
158: 3,025,898
3,028,900
3,049,162
176: 3,018,810
3,034,553
178: 3,025,899
187: 3,027,926
3,034,554
3,044,519
208: 3,043,356
209: 3,023,798
3,024,825
3,030,998
3,030,999
3,055,410
210: 3,057,389
211: 3,053,301
3,062,255
212: 3,064,702
213: 3,025,900
3,042,095
3,063,489
214: 3,027,927
216: 3,016,078
3,042,096
3,049,163
3,055,411
218: 3,016,079
3,031,000
3,034,555
219: 3,033,262
220: 3,051,211
221: 3,026,922
3,045,737
3,056,444
225: 3,019,830
3,045,738
226: 3,053,302
3,066,715
3,068,925
228: 3,047,037
229: 3,034,556
233: 3,018,811
3,020,948
3,024,826
3,037,543
3,038,514
3,064,703
236: 3,036,617
237: 3,027,928
3,032,090
3,044,520
239: 3,025,901
3,028,901
3,042,097
241: 3,036,618
3,044,521
3,047,038
3,053,303
308: 3,047,039
323: 3,066,716
330: 3,018,812
3,024,827
3,038,515
3,047,040
3,048,211
3,051,212
3,057,390
3,060,989
362: 3,062,256
337: 3,036,619
339: 3,029,857
3,064,704
340: 3,025,902
3,034,557
341: 3,018,813
342: 3,060,990
347: 3,042,098
349: 3,038,516
3,038,517
354: 3,024,828
354: 3,050,098
3,052,274
3,052,275
3,059,682
3,062,257
3,067,795
3,068,926
355: 3,044,522
356: 3,057,391
3,058,509
3,062,258
3,062,259
361: 3,018,814
3,024,829
3,043,357
3,057,392
362: 3,028,902
3,028,903
3,038,518
3,040,797
3,044,523
363: 3,047,041
367: 3,036,620
3,036,621
3,039,509
3,044,524
370: 3,035,625
3,035,626
3,049,164
396: 3,024,830
410: 3,026,923
3,043,358
3,067,796
415: 3,019,831
3,024,831
3,037,544
427: 3,018,815
3,019,832
3,032,091
3,033,263
3,039,510
3,064,705
429: 3,034,558
3,044,525

Class 153

1: 3,015,352
3,018,816
3,021,885
3,026,924
3,031,001
3,031,002
3,035,627
3,037,545
3,038,511
3,047,042
3,047,043
3,048,212
3,051,213
3,052,276
3,055,412
3,056,445
3,066,446
3,060,991
3,062,260
3,064,706
3,066,717
3,070,143
3,070,144
2: 3,019,833
3,022,811
3,024,832
3,025,903
3,028,904
3,031,003
3,031,004
3,033,264
3,037,546
3,039,519
3,042,099
3,045,739
3,048,213
3,051,214
3,060,992
3,062,261
3,062,262
3,064,707
3,066,718
3,067,797
3,068,927
4: 3,045,942
6: 3,058,511
9: 3,047,044
3,062,263
15: 3,043,359
3,052,277
16: 3,033,265
3,044,526
3,058,512
20: 3,017,914
3,027,929
21: 3,016,080
3,029,858
21: 3,031,005
3,034,559
3,044,527
3,067,798
3,070,145
3,070,146
25: 3,049,165
3,053,304
3,054,437
3,064,708
32: 3,015,353
3,016,081
3,025,904
3,025,905
3,026,925
3,027,930
3,029,859
3,032,092
3,033,266
3,034,560
3,034,561
3,034,562
3,034,563
3,034,564
3,036,622
3,036,623
3,039,512
3,044,528
3,050,099
3,050,100
3,051,215
3,051,216
3,054,438
3,055,413
3,060,993
3,062,264
3,062,265
3,064,709
3,065,780
3,066,719
3,068,928
33: 3,017,915
3,057,393
34: 3,064,710
3,068,929
35: 3,018,817
3,038,520
3,051,217
3,065,781
3,070,147
38: 3,033,267
40: 3,016,943
3,017,916
3,020,949
3,039,683
3,062,266
3,064,711
45: 3,017,917
46: 3,043,360
3,051,218
3,059,684
48: 3,018,818
3,021,886
3,021,887
3,023,799
3,034,565
3,035,628
3,053,305
3,057,394
3,068,930
53: 3,028,905
54: 3,016,082
3,040,798
3,050,101
3,052,278
3,055,414
3,056,447
56: 3,023,800
63: 3,043,361
64: 3,024,833
3,038,521
3,042,100
3,045,740
3,053,306
64.5: 3,062,267
65: 3,019,834
67: 3,031,006
3,044,529
73: 3,015,354
3,067,799
3,068,932
77: 3,040,799
3,054,439
3,059,685
78: 3,015,355
3,067,800
79: 3,021,888
3,027,931
3,040,800
3,052,279
3,052,280
3,059,686
3,059,687
3,059,688
79: 3,060,994
80: 3,067,801
80.5: 3,044,530
3,059,689
3,067,802
81: Re.25,131
3,016,083
3,018,819
3,031,007
3,044,531
3,045,741
3,050,102
3,050,103
3,063,490
82: 3,016,944
3,031,008
3,047,045
87: 3,039,513
88: 3,022,812
93: 3,068,931
94: 3,053,307
102: 3,028,906
104: 3,031,009
106: 3,061,712
3,064,713
108: 3,047,046

Class 154

1: 3,035,951
3,035,952
2.4: 3,065,571
2.6: 3,026,222
3,031,352
3,047,442
3,056,704
2.7: 3,038,825
3,042,561
3,046,169
3,051,596
3,053,881
2.74: 3,061,490
2.77: 3,069,301
43: 3,017,302
3,030,182
3,022,208
3,023,134
3,023,135
3,024,145
3,024,146
3,026,223
3,028,277
3,028,282
3,030,247
3,030,248
3,030,249
3,031,361
3,032,455
3,033,719
3,034,938
3,034,939
3,035,953
3,035,954
3,037,893
3,038,826
3,041,217
3,041,218
3,042,562
3,044,913
3,046,170
3,048,508
3,049,455
3,051,597
3,051,598
3,051,599
3,053,711
3,053,712
3,053,713
3,054,703
3,054,704
3,054,705
3,055,783
3,056,705
3,056,706
3,058,859
3,060,068
3,061,491
3,061,492
3,063,882
3,063,883
3,066,059
3,066,060
3,067,077
3,067,078
3,067,079
3,070,474
43.5: 3,048,509
44: 3,020,183
3,020,184
3,026,224
3,030,250
3,031,358
3,034,940
3,037,895
44: 3,039,904
3,044,914
3,044,915
3,050,424
3,053,714
3,053,715
3,056,707
3,056,708
3,058,860
3,058,861
3,066,061
45: 3,018,205
3,025,197
3,028,278
3,029,172
3,041,219
3,060,069
45.9: 3,016,315
3,016,316
3,017,303
3,018,206
3,018,209
3,019,146
3,021,239
3,022,207
3,023,136
3,025,198
3,028,285
3,030,256
3,032,458
3,032,460
3,037,894
3,041,220
3,042,563
3,043,730
3,046,171
3,054,706
3,066,062
3,070,475
46: 3,015,565
3,019,147
3,021,240
3,025,199
3,033,720
3,033,721
3,033,722
3,034,941
3,038,827
3,039,905
3,044,916
3,046,172
3,047,443
3,047,444
3,047,445
3,049,456
3,050,425
3,058,862
3,068,130
46.8: 3,049,457
3,065,120
47: 3,030,255
3,046,173
3,049,458
3,051,600
3,061,494
48: 3,019,148
3,028,279
3,052,579
3,070,476
49: 3,016,317
3,033,723
3,035,955
3,036,942
3,038,828
3,041,221
3,042,564
3,048,510
3,049,459
3,054,707
50: 3,015,596
3,026,225
3,033,724
3,035,956
3,044,917
3,048,511
3,055,784
3,058,863
3,061,493
51: 3,053,716
52: 3,018,207
3,034,943
3,036,943
3,038,829
3,039,906
3,041,222
3,052,580
3,053,717
3,060,070
3,068,131
52.1: 3,036,944
3,046,174
3,047,446
3,058,864
3,063,884
53: 3,020,185
53.5: 3,015,597
3,018,208
3,028,280
3,030,251
3,031,359
3,034,944
3,035,957
3,036,945
3,039,907
3,058,865
3,063,885
53.6: 3,024,147
3,028,281
3,029,173
54: 3,016,318
3,017,304
3,025,200
3,043,731
3,044,918
3,050,426
3,051,601
3,051,602
3,055,785
54.5: 3,053,718
55: 3,041,223
78: 3,034,942
116: 3,035,958

Class 155

169: 3,054,246

Class 156

1: 3,054,708
6: 3,057,764
7: 3,041,225
3,056,709
8: 3,031,362
10: 3,052,581
11: 3,046,175
3,046,176
13: 3,037,896
3,039,909
14: 3,023,138
3,033,725
3,048,512
3,051,603
17: 3,024,148
3,031,363
3,035,959
3,041,226
3,042,565
3,054,709
3,063,886
3,070,477
18: 3,031,276
3,042,566
3,052,582
3,053,719
3,053,720
3,057,765
3,060,071
3,061,494
20: 3,024,095
3,067,080
21: 3,018,211
3,039,910
3,041,227
24: 3,023,139
3,028,286
25: 3,058,866
3,061,495
26: 3,050,427
3,061,496
27: 3,043,735
28: 3,024,149
3,032,456
30: 3,021,244
3,030,428
3,061,497
31: 3,033,726
3,048,513
32: 3,030,245
33: 3,034,945
34: 3,030,189
3,025,202
35: 3,028,287
36: 3,024,150
3,025,203
37: 3,063,887
38: 3,042,567
3,052,583
40: 3,017,305
3,031,353
3,047,447
48: 3,017,306
3,022,813
52: 3,030,257
3,054,710
3,058,867
53: 3,056,710
3,069,302

Class 156—Con.

56: 3,027,287
3,033,727
3,047,448
3,057,081
60: 3,031,350
61: 3,054,711
67: 3,023,137
3,041,228
70: 3,053,728
71: 3,030,258
3,044,919
72: 3,017,307
3,060,072
73: 3,022,814
3,062,695
78: 3,037,897
3,046,177
79: 3,041,224
3,047,449
80: 3,041,229
82: 3,029,175
3,057,766
84: 3,067,082
86: 3,028,288
3,050,429
87: 3,019,149
89: 3,025,204
93: 3,068,132
94: 3,037,898
96: 3,061,498
97: 3,044,920
98: 3,016,319
99: 3,029,177
102: 3,027,288
110: 3,047,450
120: 3,017,308
123: 3,016,084
3,016,320
125: 3,020,190
126: 3,070,478
128: 3,028,230
3,062,696
132: 3,027,289
3,030,252
135: 3,018,821
137: 3,031,364
3,042,568
140: 3,049,460
143: 3,028,289
3,028,290
3,028,291
144: 3,015,599
3,021,245
3,028,276
3,067,083
145: 3,048,514
149: 3,035,729
150: 3,024,151
151: 3,054,712
152: 3,026,227
3,043,736
3,051,604
153: 3,058,868
157: 3,053,721
158: 3,022,209
3,055,786
160: 3,038,830
161: 3,017,309
3,033,730
166: 3,042,569
3,050,430
167: 3,029,174
3,031,360
3,036,946
3,046,178
3,052,584
3,056,711
3,067,084
169: 3,025,205
171: 3,050,073
3,068,133
172: 3,041,230
3,050,431
3,057,767
3,068,134
173: 3,021,241
175: 3,032,461
3,033,731
3,038,831
3,052,585
178: 3,024,152
3,032,457
3,062,697
179: 3,037,899
3,068,135
180: 3,021,242
3,022,210
3,026,226
3,042,570
184: 3,019,150
187: 3,024,153
3,063,888
189: 3,031,357
190: 3,038,832
191: 3,042,571
194: Re.25,241
3,061,499
195: 3,018,212
196: 3,021,246
3,030,253
3,035,960
3,043,737
3,050,432
3,051,605
3,070,479
197: 3,037,961
3,049,461
198: 3,054,713
200: 3,016,945
3,039,908
3,066,063
3,068,136
201: 3,025,194
3,063,889
3,065,121
3,068,137
202: 3,031,356
3,057,768
205: 3,026,231
3,041,921
207: 3,032,453
3,070,480
209: 3,024,154
3,043,733
3,052,586
210: 3,049,462
3,053,722
211: 3,033,732
3,033,733
212: 3,026,232
3,054,714
3,068,138
213: 3,028,284
3,068,139
214: 3,028,292
219: 3,025,206
3,046,179
3,047,451
3,050,433
220: 3,052,587
221: 3,020,188
222: 3,015,598
3,021,247
3,022,211
224: 3,039,911
225: 3,028,283
3,044,922
227: 3,068,140
228: 3,018,210
229: 3,043,738
3,051,606
230: 3,043,732
3,049,463
231: 3,043,728
233: 3,054,715
235: 3,055,787
238: 3,022,212
242: 3,032,462
3,051,607
3,070,481
244: Re.25,200
245: 3,027,290
3,030,259
3,049,464
3,061,500
246: 3,025,207
3,039,912
3,046,180
3,054,716
247: 3,024,155
3,055,788
248: 3,017,310
3,020,186
3,044,923
249: 3,043,734
250: 3,020,187
3,042,572
3,058,869
3,060,074
3,061,501
251: 3,026,233
3,028,576
3,060,075
252: 3,031,354
3,052,588
3,053,723
3,060,076
253: 3,032,463
3,069,303
254: 3,041,231
256: 3,061,502
257: 3,026,234
258: 3,053,724
264: 3,027,286
3,069,304
269: 3,070,482
272: 3,021,243
272: 3,049,465
3,061,503
274: 3,021,248
3,046,181
277: 3,052,589
278: 3,032,459
3,053,725
283: 3,043,739
285: 3,042,573
286: 3,042,574
288: 3,020,191
289: 3,027,291
3,050,434
3,052,590
292: 3,070,483
293: 3,021,249
294: 3,025,201
3,031,365
3,050,435
304: 3,053,726
305: 3,026,235
3,030,260
3,033,734
306: 3,056,712
3,062,698
3,063,890
3,065,122
3,066,064
309: 3,026,228
3,026,229
310: 3,037,900
3,063,891
314: 3,024,156
321: 3,036,947
322: 3,038,833
3,060,077
324: 3,021,260
327: 3,055,789
3,067,085
329: 3,031,366
330: 3,036,948
331: 3,030,254
332: 3,034,946
3,052,591
334: 3,049,466
335: 3,060,078
338: 3,069,305
339: 3,051,608
344: 3,050,436
3,058,870
345: 3,039,514
3,039,515
3,043,362
347: 3,050,104
3,057,395
352: 3,033,735
355: 3,026,236
356: 3,015,600
3,047,047
357: 3,017,311
359: 3,016,085
3,024,157
3,027,285
3,029,178
3,052,281
361: 3,017,312
3,036,941
3,039,516
3,044,532
362: 3,029,176
365: 3,026,237
367: 3,043,729
3,063,268
3,068,933
369: 3,040,801
370: 3,017,918
372: 3,028,293
375: 3,019,151
3,051,219
378: 3,038,522
379: 3,050,105
380: 3,019,152
3,037,548
382: 3,025,208
3,032,464
390: 3,031,355
393: 3,038,523
3,066,729
397: 3,037,396
398: 3,051,220
3,062,269
400: 3,017,919
3,025,209
401: 3,044,533
402: 3,016,321
3,032,093
403: 3,035,629
405: 3,038,524
3,057,397
3,062,270
406: 3,019,153
408: 3,038,525
410: 3,047,048
3,063,491
411: 3,030,261
411: 3,047,049
3,056,448
416: 3,018,213
3,053,308
420: 3,038,526
3,042,102
422: 3,016,322
3,051,221
423: 3,020,192
3,037,547
424: 3,063,492
425: 3,068,934
426: 3,025,196
429: 3,019,154
431: 3,033,736
3,067,806
441: 3,029,179
3,034,566
443: 3,043,363
3,048,214
3,054,440
3,067,805
446: 3,017,313
457: 3,050,106
459: 3,034,567
3,051,222
461: 3,066,721
3,067,804
463: 3,045,742
465: 3,018,820
466: 3,043,103
467: 3,044,534
468: 3,027,292
470: 3,066,722
471: 3,053,309
476: 3,021,267
486: 3,028,277
3,031,368
3,033,737
3,050,107
489: 3,049,166
492: 3,049,148
497: 3,047,050
498: 3,017,314
3,035,630
3,059,690
3,060,995
3,068,935
499: 3,030,244
3,053,310
502: 3,029,180
3,038,513
504: 3,024,157
3,065,782
505: 3,043,364
510: 3,042,104
511: 3,049,517
513: 3,031,349
515: 3,015,601
3,028,294
3,052,282
3,054,441
516: 3,052,283
517: 3,020,193
522: 3,066,723
527: 3,051,223
530: 3,031,369
3,033,738
3,059,691
539: 3,025,210
3,047,051
540: 3,043,365
542: 3,021,251
3,025,211
3,052,284
3,058,514
3,064,714
548: 3,049,167
551: 3,054,442
552: 3,025,212
3,055,415
556: 3,037,548
3,064,715
559: 3,031,370
561: 3,033,739
562: 3,066,724
564: 3,033,740
566: 3,036,624
567: 3,030,262
3,042,560
3,045,743
3,064,716
571: 3,026,238
575: 3,064,717
579: 3,035,631
580: 3,038,527
3,047,052
581: 3,017,315
3,032,454
3,047,053
583: 3,020,194
3,027,293
3,060,996
584: 3,026,239
3,033,741
584: 3,040,802
3,044,535
3,050,108
585: 3,033,742
588: 3,050,109
3,066,725
591: 3,067,806
595: 3,032,452

Class 157

1.1: 3,066,726
1.2: 3,052,285
1.21: 3,039,518
1.22: 3,029,860
3,032,861
3,037,549
3,056,449
1.24: 3,029,862
3,036,625
3,038,528
3,050,110
1.26: 3,033,268
3,039,519
3,067,807
1.28: 3,032,994
3,052,095
3,051,224
3,064,718
1.5: 3,024,834
13: 3,018,822
3,034,520
3,044,536
3,051,225

Class 158

1: 3,026,926
3,028,907
3,051,226
3,070,149
1.5: 3,033,269
3,033,270
3,033,271
3,037,550
3,042,105
4: 3,029,863
3,033,272
3,066,727
3,070,150
7: 3,016,946
3,017,920
10: 3,033,275
11: 3,032,096
3,032,097
3,049,168
3,062,271
3,067,808
13.6: 3,053,311
27.4: 3,016,947
3,029,864
3,035,632
3,038,529
3,039,521
3,042,106
3,053,312
28: 3,016,948
3,017,921
3,024,835
3,026,927
3,027,932
3,027,933
3,029,908
3,032,098
3,033,276
3,034,568
3,037,551
3,038,530
3,040,803
3,042,107
3,045,744
3,049,169
3,049,170
3,050,111
3,051,227
3,054,443
3,055,416
3,057,398
3,060,997
3,062,272
3,064,719
3,065,783
3,070,151
33: 3,047,054
36: 3,034,569
3,037,552
3,043,366
36.3: 3,016,948
3,017,922
3,021,890
3,023,801
3,026,928
3,031,010
3,047,055
36.3: 3,053,313
3,059,692
3,067,809
36.4: 3,021,891
3,026,929
3,033,277
3,034,570
3,043,367
3,060,998
3,065,784
46: 3,020,950
3,049,171
46.5: 3,031,011
3,033,274
50.1: 3,067,810
67: 3,059,694
68: 3,035,633
69: 3,027,934
76: 3,031,012
3,033,278
3,038,531
3,045,745
3,051,228
3,062,273
77: 3,021,892
3,023,802
3,053,314
91: 3,017,923
3,017,924
3,017,925
3,026,930
3,026,931
3,033,279
3,051,229
3,060,999
3,062,274
94: 3,040,804
3,042,108
3,061,000
99: 3,027,935
3,037,553
3,049,172
3,055,417
3,057,400
3,058,515
3,063,493
3,063,494
104: 3,016,949
105: 3,027,936
106: 3,052,286
109: 3,022,815
3,041,537
3,050,112
3,070,152
110: 3,049,173
113: 3,018,823
3,029,865
3,042,109
3,048,215
3,048,216
114: 3,024,836
3,029,866
3,040,805
3,067,811
115: 3,053,315
3,070,153
116: 3,016,950
3,021,893
3,042,110
3,044,538
3,047,056
3,048,217
3,053,316
3,061,001
3,062,275
3,064,720
117.5: 3,015,357
3,045,368
3,044,539
3,047,057
3,052,287
118: 3,051,230
3,052,288
123: 3,033,280
3,034,571
3,039,522
3,055,418
3,056,450
124: 3,023,803
3,062,276
125: 3,026,932
3,059,695
3,070,154
130: 3,034,572
131: 3,070,155
132: 3,028,909
140: 3,037,554

Class 159

1: 3,066,728
2: 3,064,721
4: 3,036,626
3,036,627
3,038,532
4: 3,038,533
3,049,174
6: 3,034,573
3,054,444
3,058,516
3,067,812
9: 3,019,835
12: 3,048,218
13: 5,050,113
25: 3,050,114
44: 3,035,634
3,039,523
47: 3,052,289
48: 3,039,107
3,054,445
3,059,694
49: 3,064,722

Class 160

19: 3,033,281
20: 3,044,540
23: 3,021,894
24: 3,022,816
3,036,628
3,036,629
3,063,495
32: 3,067,813
34: 3,034,574
3,051,231
35: 3,020,951
40: 3,023,804
3,027,937
3,034,575
3,039,525
3,068,936
41: 3,068,937
45: 3,047,058
53: 3,015,358
62: 3,061,002
81: 3,052,290
3,053,317
3,065,785
84: 3,029,867
3,055,419
3,062,277
3,065,786
90: 3,021,895
3,052,291
91: 3,024,837
3,043,369
92: 3,062,278
113: 3,021,896
3,022,817
114: 3,021,897
118: 3,029,868
3,061,003
126: 3,016,951
3,061,004
132: 3,039,526
3,047,059
136: 3,058,517
168: 3,032,099
172: 3,026,910
173: 3,038,534
3,054,446
176: 3,033,282
3,061,005
3,068,938
177: 3,049,175
183: 3,033,283
186: 3,037,555
188: 3,039,527
191: 3,038,535
193: 3,024,838
3,038,536
3,066,729
194: 3,064,723
196: 3,062,279
3,063,496
199: Re.25,112
3,019,836
3,040,806
201: 3,056,451
206: 3,015,359
3,016,087
3,022,818
3,045,746
3,054,447
3,066,730
213: 3,017,926
3,035,635
217: 3,048,219
231: 3,053,318
235: 3,033,284
3,067,814
236: 3,031,013
265: 3,061,006
271: 3,017,927
272: 3,051,232
328: 3,029,869
3,048,220
3,057,401
329: 3,025,906

330: 3,047,060
3,064,724
331: 3,045,747
332: 3,038,537
341: 3,052,280
345: 3,022,819
346: 3,026,933
3,049,176
347: 3,055,420
348: 3,027,938
3,037,556
3,062,281
351: 3,047,061
352: Re.25,190
3,042,111
3,063,497
354: 3,016,952
3,064,725
363: 3,033,285
364: 3,021,898
368: 3,025,907
3,025,908
3,042,112
3,052,292
3,063,498
369: 3,029,870
380: 3,058,518
392: 3,068,939
394: 3,018,824
404: 3,042,113

Class 162

2: 3,055,790
3,063,892
4: 3,016,323
3,025,213
3,055,791
3,057,769
5: 3,047,452
3,051,609
3,051,610
3,056,713
3,058,871
3,063,306
3,069,307
3,069,308
7: 3,015,602
3,021,252
13: 3,021,253
16: 3,038,834
17: 3,024,158
3,035,962
3,041,232
3,052,592
18: 3,041,233
19: 3,035,963
23: 3,070,484
24: 3,016,324
3,023,140
25: 3,055,792
26: 3,069,309
32: 3,020,195
3,037,901
36: 3,026,240
3,046,182
3,057,770
38: 3,055,793
51: 3,028,295
55: 3,049,467
56: 3,046,183
65: 3,061,504
68: 3,051,611
78: 3,020,196
3,020,197
80: 3,017,316
3,042,575
3,068,141
83: 3,067,086
86: 3,046,184
3,055,794
3,062,310
90: 3,036,949
100: 3,021,254
3,047,453
3,055,795
109: 3,061,505
111: 3,017,317
112: 3,018,214
114: 3,042,576
115: 3,035,964
3,042,577
116: 3,057,771
117: 3,015,603
3,047,454
123: 3,054,717
126: 3,048,515
135: 3,026,241
3,062,699
3,070,485
136: 3,039,913
3,053,727
138: 3,022,213
138: 3,062,700
3,066,065
139: 3,044,924
3,070,486
3,070,487
145: 3,035,965
3,039,914
3,062,701
146: 3,026,242
3,028,296
3,031,371
3,032,465
3,052,593
3,057,772
3,069,311
149: 3,019,155
151: 3,051,612
152: 3,017,318
3,023,141
3,066,066
154: 3,027,294
3,058,572
155: 3,056,714
3,056,715
3,056,716
3,056,717
156: 3,021,255
157: 3,015,604
3,037,902
3,047,455
3,047,456
3,062,702
3,067,087
158: 3,050,437
160: 3,041,234
161: 3,017,319
3,021,256
3,024,159
3,046,185
3,052,594
3,060,079
3,065,123
162: 3,021,257
3,049,468
163: 3,024,160
164: 3,016,325
3,019,499
3,052,595
3,055,796
3,058,873
165: 3,036,950
3,037,903
3,039,915
166: 3,033,743
3,035,966
167: 3,043,741
3,046,186
168: 3,015,605
3,019,156
3,019,157
3,022,214
169: 3,027,295
171: 3,042,578
174: 3,047,457
175: 3,062,703
3,067,088
179: 3,056,718
181: 3,028,297
3,029,181
3,034,947
3,043,740
3,055,797
191: 3,035,967
202: 3,044,925
3,066,067
203: 3,056,719
208: 3,066,068
210: 3,041,235
212: 3,019,158
214: 3,028,298
223: 3,047,458
3,058,874
227: 3,066,069
228: 3,043,742
3,045,187
3,053,728
237: 3,034,576
3,044,541
3,061,007
3,070,156
242: 3,016,088
246: 3,064,726
252: 3,040,807
271: 3,027,939
273: 3,022,820
3,025,909
3,044,542
3,052,293
3,052,294
289: 3,017,928
3,066,731
297: 3,058,519
308: 3,032,190
314: 3,052,295
319: 3,018,825
3,029,871
327: 3,035,636
3,065,787
329: 3,021,899
336: 3,038,538
3,065,788
337: 3,034,577
3,051,233
338: 3,061,008
339: 3,016,089
540: 3,017,929
3,055,421
342: 3,026,934
3,067,815
344: 3,043,370
347: 3,034,578
352: 3,017,930
3,027,940
3,027,941
3,065,789
354: 3,052,296
358: 3,023,805
364: 3,024,839
367: 3,025,910
3,053,319
368: 3,057,402
370: 3,037,557
374: 3,022,821
3,067,816
382: 3,064,727
383: 3,028,911
385: 3,016,090
3,023,806
391: 3,016,091
402: 3,021,900
411: 3,050,115

Class 165

1: 3,070,157
72: 3,069,143

Class 166

2: 3,057,403
3,064,728
3: 3,033,286
3,038,539
3,059,695
4: 3,020,952
3,022,822
3,033,287
3,041,743
3,056,452
3,059,696
7: 3,066,732
8: 3,057,404
9: 3,018,826
3,028,912
3,032,101
3,033,288
3,035,637
3,036,630
3,036,631
3,039,529
3,044,544
3,047,062
3,051,234
3,064,729
3,065,790
3,070,158
10: 3,047,063
3,050,116
11: 3,016,953
3,019,837
3,023,807
3,024,840
3,024,841
3,026,935
3,027,942
3,031,014
3,032,102
3,032,103
3,034,579
3,034,580
3,036,628
3,036,632
3,042,114
3,044,545
3,044,546
3,047,064
3,048,221
3,048,222
3,048,223
3,048,224
3,048,225
3,051,235
3,054,448
11: 3,055,422
3,055,423
3,062,282
3,062,283
3,070,159
12: 3,044,547
3,070,160
14: 3,047,065
15: 3,064,730
19: 3,062,284
21: 3,022,823
3,050,117
3,052,297
3,055,424
3,065,791
22: 3,020,298
3,062,285
23: 3,026,936
25: 3,057,405
29: 3,028,913
3,032,465
3,070,161
30: 3,051,236
31: 3,016,092
3,022,824
3,036,633
3,055,426
3,058,520
32: 3,047,066
33: 3,022,825
3,027,943
3,044,548
3,047,067
3,070,163
35: Re.25,298
3,032,104
3,036,634
3,040,808
3,045,748
3,050,118
3,064,731
36: 3,066,733
38: 3,070,162
39: 3,018,827
3,019,838
3,026,937
3,055,427
3,061,009
40: 3,040,809
41: 3,070,164
42: 3,020,953
3,020,954
3,021,901
3,025,911
3,026,938
3,028,914
3,044,549
3,044,550
3,045,749
3,047,068
3,048,226
3,050,119
3,062,287
3,062,286
3,063,499
3,066,734
3,070,165
43: 3,016,093
3,019,839
3,062,287
44: 3,020,955
3,064,732
46: 3,015,360
3,028,915
3,032,105
3,032,106
3,040,810
3,050,120
3,050,121
3,062,288
3,065,792
3,070,166
48: 3,067,819
49: 3,059,697
52: 3,045,750
53: 3,018,828
54: 3,045,751
55: 3,019,840
3,026,939
3,039,530
3,045,752
3,045,753
3,064,733
3,066,735
55.1: 3,019,841
3,032,107
3,032,108
3,047,069
3,066,736
55.4: 3,032,109
3,058,522
3,058,523
55.6: 3,024,842
3,031,015
3,056,453
55.8: 3,050,122
57: 3,066,737
59: 3,042,115
3,044,551
3,050,123
60: 3,026,940
61: 3,062,289
62: 3,028,916
63: 3,024,843
3,027,944
3,029,872
3,029,873
3,032,110
3,064,734
64: 3,055,428
3,061,010
65: 3,024,844
3,032,111
66.5: 3,020,956
3,052,299
3,054,449
3,055,429
3,063,500
3,064,735
67: 3,036,635
3,064,736
68: 3,053,320
3,062,290
70: 3,035,640
3,039,531
72: Re.25,109
3,035,641
3,040,811
3,065,793
75: 3,027,945
3,028,917
3,039,532
3,051,237
3,051,238
3,059,698
77.5: 3,061,011
79: 3,023,808
84: 3,023,809
3,032,112
3,052,300
85: 3,025,912
3,050,124
86: 3,043,371
88: 3,018,829
3,067,820
91: 3,050,125
97: 3,050,126
3,050,127
3,052,301
3,068,940
98: 3,016,954
99: 3,020,957
3,023,810
3,067,821
100: 3,022,826
101: 3,015,361
109: 3,055,764
114: 3,047,070
3,048,227
115: 3,033,289
118: 3,020,958
119: 3,049,177
3,062,291
120: 3,025,913
3,039,533
3,045,754
3,050,128
3,054,450
122: 3,055,430
123: 3,024,845
3,036,636
3,039,534
3,054,451
3,057,406
3,062,292
124: 3,018,830
3,047,071
125: 3,032,113
3,051,239
3,057,407
3,065,794
126: Re.25,289
3,019,842
129: 3,045,755
3,050,129
131: 3,051,240
134: 3,020,959
3,036,637
3,054,452
138: 3,054,453
140: 3,043,372
3,055,431
143: 3,051,241
146: 3,020,960
149: 3,040,812
3,066,738
150: 3,035,639
153: 3,050,130
3,052,302
3,070,167
155: 3,062,293
162: 3,045,756
164: 3,047,072
165: 3,020,961
169: 3,016,094
3,036,638
170: 3,037,558
3,038,540
3,044,552
173: 3,018,831
3,031,016
3,032,114
3,068,941
3,070,168
174: 3,034,581
176: 3,027,946
3,047,073
3,058,524
3,065,795
177: 3,016,095
3,058,525
3,062,294
3,070,169
178: 3,023,811
3,043,373
3,050,131
3,054,454
3,063,501
179: 3,042,116
3,053,321
181: 3,032,115
3,033,290
184: 3,053,322
185: 3,051,242
187: 3,022,827
3,032,116
3,044,553
3,054,455
3,059,699
3,066,739
189: 3,032,117
3,040,813
191: 3,022,828
196: 3,038,541
198: 3,018,832
201: 3,036,639
3,061,012
202: 3,057,408
204: 3,038,542
3,061,013
3,062,295
208: 3,017,931
212: 3,029,874
214: 3,027,947
3,064,737
216: 3,015,362
3,026,941
3,036,640
3,045,757
3,045,758
3,058,526
224: 3,016,096
3,016,955
3,022,829
3,029,875
3,036,642
3,040,814
3,045,759
3,045,760
3,050,132
3,051,243
3,053,323
3,054,456
3,059,700
3,066,740
225: 3,051,244
3,062,296
226: 3,024,846
3,051,245
3,051,246
3,065,796
228: 3,039,535
235: 3,025,914
237: 3,021,902
3,064,738
3,070,170
241: 3,044,554
3,051,247
3,055,432
3,062,297
242: 3,020,962
3,057,409
243: 3,032,118
243: 3,034,912
3,036,641
3,070,171

Class 167

14: 3,029,182
3,030,263
3,035,968
3,046,188
3,048,516
16: 3,024,161
17: 3,028,299
3,028,300
3,028,301
3,029,183
3,032,466
3,058,875
3,061,506
3,065,124
3,067,089
22: 3,016,326
3,016,327
3,016,328
3,017,320
3,018,215
3,018,216
3,018,217
3,018,218
3,019,159
3,020,198
3,022,215
3,024,162
3,026,243
3,026,244
3,027,296
3,028,302
3,028,303
3,030,264
3,030,265
3,033,744
3,034,948
3,034,949
3,034,950
3,034,951
3,036,951
3,036,952
3,037,904
3,039,917
3,039,918
3,044,926
3,046,189
3,047,459
3,048,517
3,049,470
3,050,438
3,050,439
3,051,613
3,051,614
3,052,596
3,052,597
3,053,729
3,054,718
3,055,798
3,055,799
3,056,720
3,056,721
3,057,773
3,057,774
3,058,876
3,058,877
3,060,080
3,060,081
3,061,507
3,062,704
3,062,705
3,065,125
3,065,126
3,065,127
3,066,070
3,067,090
3,067,091
3,067,092
3,068,142
3,068,143
3,069,312
3,070,488
3,070,489
3,070,490
3,070,491
24: 3,035,969
3,055,800
3,060,082
3,063,893
30: 3,017,321
3,021,258
3,027,297
3,032,466
3,034,952
3,037,905
3,037,906
3,037,907
3,039,919

Class 167—Con.

30: 3,044,927
3,050,440
3,050,441
3,054,719
3,055,801
3,058,878
3,062,706
3,062,707
3,062,708
3,062,709
3,063,894
3,065,128
3,065,129
3,067,093
3,069,313
3,070,492
3,070,493
31: 3,024,163
3,033,745
3,033,746
3,034,953
3,041,236
3,042,579
3,046,190
3,062,710
3,063,895
3,067,094
32: 3,027,298
33: 3,019,160
3,020,199
3,025,214
3,025,215
3,026,245
3,031,372
3,031,973
3,034,954
3,037,908
3,039,920
3,046,191
3,047,460
3,050,442
3,051,615
3,054,720
3,054,721
3,056,722
3,058,579
3,058,880
3,065,130
3,067,095
3,068,144
37: 3,034,955
3,051,616
38: 3,022,216
3,034,956
38.5: 3,034,957
3,070,494
38.6: 3,058,881
38.7: 3,031,374
3,049,471
3,053,730
39: 3,022,217
3,026,246
3,028,304
3,039,921
3,042,580
3,044,929
3,049,472
3,052,598
42: 3,024,164
3,028,305
3,030,266
3,032,467
3,035,970
3,052,599
3,052,600
3,055,802
3,056,723
3,060,083
3,060,084
3,061,508
46: 3,023,142
3,043,743
3,044,930
3,051,617
3,052,601
3,055,803
3,060,085
3,069,314
48: 3,016,329
3,018,219
3,030,267
3,030,268
3,046,192
3,070,495
49.5: 3,057,775
3,061,509
51: 3,061,510
51.5: 3,041,237
3,048,518
3,048,519
3,058,882
52: 3,027,299
3,034,958
52: 3,034,959
3,038,835
3,044,931
3,051,618
3,053,731
3,059,315
53: 3,018,220
3,022,218
3,023,143
3,029,184
3,029,185
3,032,468
3,038,836
3,043,744
3,046,193
3,053,732
3,053,733
3,053,734
3,056,724
3,058,883
3,060,086
3,060,087
3,060,088
3,061,511
3,062,711
3,062,712
3,062,713
3,065,131
3,067,096
3,069,316
3,070,496
53.1: 3,015,606
3,017,322
3,020,200
3,025,216
3,026,247
3,030,269
3,037,909
3,052,602
3,054,722
3,065,132
3,065,133
3,067,097
53.2: 3,035,971
3,049,473
3,055,804
3,066,071
54: 3,050,443
55: Re.25,205
3,017,324
3,024,165
3,029,186
3,035,972
3,039,922
3,041,238
3,044,932
3,044,933
3,053,735
3,056,725
3,057,776
3,062,714
3,063,896
3,065,134
3,066,072
3,066,073
3,069,317
3,069,318
56: 3,035,973
58: 3,017,325
3,019,161
3,019,162
3,023,144
3,026,247
3,034,960
3,035,974
3,036,953
3,043,745
3,052,603
3,052,604
3,061,512
3,062,715
3,062,716
3,065,135
3,067,098
3,068,145
3,069,319
3,070,497
3,070,498
3,070,499
60: 3,029,187
3,029,188
3,068,146
63: 3,019,163
65: 3,015,607
3,016,330
3,017,323
3,017,326
3,017,327
3,018,221
3,019,164
3,019,165
3,019,166
3,020,201
3,020,202
65: 3,021,259
3,022,219
3,022,220
3,023,145
3,023,146
3,024,166
3,024,167
3,026,248
3,027,300
3,027,301
3,027,302
3,028,306
3,029,189
3,030,271
3,031,375
3,031,376
3,031,377
3,032,469
3,032,470
3,032,471
3,033,747
3,033,748
3,033,749
3,034,961
3,035,975
3,035,976
3,035,977
3,036,954
3,036,955
3,037,910
3,038,837
3,039,923
3,039,924
3,039,925
3,039,926
3,039,927
3,039,928
3,039,929
3,039,930
3,041,239
3,041,240
3,042,581
3,043,582
3,043,746
3,044,934
3,044,935
3,044,936
3,045,194
3,046,195
3,046,196
3,047,461
3,047,462
3,047,463
3,047,464
3,048,520
3,049,474
3,051,619
3,051,620
3,051,621
3,051,622
3,052,605
3,053,736
3,055,805
3,056,726
3,057,777
3,057,778
3,057,779
3,057,780
3,060,089
3,060,090
3,060,091
3,061,513
3,061,514
3,061,515
3,061,516
3,061,517
3,062,717
3,062,718
3,063,897
3,063,898
3,063,899
3,063,900
3,063,901
3,063,902
3,063,903
3,065,136
3,065,137
3,066,074
3,066,075
3,067,099
3,067,100
3,067,101
3,067,102
3,067,103
3,068,147
3,068,148
3,069,320
3,069,321
3,070,500
3,070,501
3,070,502
3,070,503
3,070,504
3,070,505
66: 3,046,197
67: 3,018,222
3,051,623
68: 3,020,203
3,022,221
3,027,303
3,035,978
3,062,719
3,065,138
3,070,506
71: 3,034,962
72: 3,035,979
3,065,139
73: 3,019,167
74: 3,015,608
3,016,331
3,030,272
3,033,750
3,033,751
3,033,752
3,033,753
3,034,963
3,036,956
3,038,838
3,039,931
3,042,583
3,047,465
3,048,521
3,051,624
3,056,727
3,058,884
3,060,092
3,065,140
3,065,141
3,066,076
3,069,322
74.6: 3,048,522
75: 3,058,885
3,060,093
3,069,323
77: 3,053,737
3,070,507
78: 3,016,332
3,019,168
3,029,190
3,031,378
3,035,980
3,039,932
3,041,241
3,041,242
3,046,198
3,048,523
3,048,524
3,051,625
3,051,626
3,052,606
3,057,781
3,057,782
3,057,783
3,060,094
3,061,518
3,063,904
3,068,149
81: 3,026,249
3,035,981
3,035,982
3,035,983
3,036,957
3,037,911
3,044,937
3,056,728
3,060,095
3,067,104
3,067,105
3,070,508
82: 3,015,609
3,015,610
3,015,611
3,019,169
3,025,217
3,028,307
3,028,308
3,030,273
3,033,754
3,034,964
3,035,984
3,035,985
3,039,933
3,041,243
3,043,747
3,044,938
3,048,525
3,048,526
3,052,607
3,054,723
3,054,724
3,055,433
3,062,720
3,063,905
3,063,906
3,065,142
3,065,143
3,070,509
84.5: 3,035,986
85: 3,034,965
3,034,966
3,063,907
87: 3,016,333
3,061,519
3,068,150
87.1: 3,017,328
3,025,218
3,025,219
3,029,250
3,039,934
3,063,908
3,066,077
3,068,151
88: 3,041,244
90: 3,018,223
3,030,274
3,030,275
3,033,755
3,035,987
3,041,245
3,046,199
3,052,608
3,053,738
3,058,886
3,060,096
3,061,520
3,065,144
3,067,106
3,068,152
3,068,153
3,069,324
91: 3,016,334
3,060,097
3,062,721
92: 3,035,988
93: 3,027,304
3,029,191
3,033,756
3,034,967
3,044,939
3,060,098
3,070,510
94: 3,022,222
3,025,220
95: 3,017,329
3,021,260
3,033,757
3,047,466
3,062,722

Class 168

4: 3,050,133
23: 3,023,812

Class 169

1: 3,033,291
3,040,815
3,062,298
3,067,822
3,070,172
2: 3,019,843
3,033,292
3,052,303
3,055,434
3,059,701
3,063,502
3,064,739
5: 3,050,134
9: 3,040,816
11: 3,016,956
3,052,304
15: 3,065,797
19: 3,021,903
26: 3,064,740
31: 3,016,067
3,024,847
3,042,117
3,045,761
3,055,435
3,055,436
3,058,527
3,061,014
32: 3,028,918
36: 3,065,798
37: 3,039,536
3,059,702
41: 3,061,015
3,067,823
42: 3,044,555
3,061,016

Class 170

36: 3,020,963
38: 3,032,119
68: 3,037,559
3,063,503
75: 3,038,543
135: 3,067,824
135.25: 3,023,813
135.29: 3,017,932
3,066,741
3,070,173
135.4: 3,015,363
3,032,120
3,039,537
3,052,305
3,053,324
135.7: 3,049,178
135.74: 3,034,582
3,034,583
3,056,454
3,056,455
135.743: 3,045,762
159: 3,018,832
3,033,293
3,036,642
3,044,556
3,053,325
3,055,437
3,056,456
3,058,528
3,066,742
160.11: 3,065,799
160.12: 3,054,457
160.13: 3,027,948
3,035,643
3,058,529
160.17: 3,070,174
160.18: 3,044,558
160.2: 3,067,825
3,068,943
160.21: 3,027,949
3,037,560
3,057,410
160.25: 3,026,942
3,031,017
3,035,644
3,053,326
160.3: 3,043,374
3,061,017
160.32: 3,024,848
3,034,584
3,051,248
3,051,249
160.45: 3,054,458
3,056,457
160.47: 3,023,814
160.5: 3,044,557
160.54: 3,045,763
3,047,074
160.58: 3,029,876
3,040,817
160.59: 3,026,943
168: 3,051,250
172: 3,044,559

Class 171

16: 3,054,459
28: 3,034,585
53: 3,021,904
55: 3,037,561
58: 3,017,933
3,029,877
3,054,460
3,070,175
61: 3,024,849
3,059,703
88: 3,053,327
98: 3,065,800

Class 172

1: 3,042,118
5: 3,023,815
3,027,950
3,038,544
7: 3,022,830
3,032,831
9: 3,042,119
10: 3,022,832
3,049,179
13: 3,029,878
3,038,530
3,065,801
15: 3,019,844
3,055,438
3,057,411
3,058,530
16: 3,070,176
18: 3,062,299
19: 3,022,833
3,034,586
3,053,328
20: 3,051,251
21: 3,022,834
3,062,300
22: 3,015,364
38: 3,059,704
41: 3,031,018
42: 3,016,957
3,057,412
44: 3,033,294
58: 3,032,121
66: 3,055,530
71: 3,054,461
78: 3,029,879
81: 3,066,743
99: 3,055,439
3,057,413
110: 3,066,744
118: 3,066,745
125: 3,028,910
127: 3,021,905
139: 3,061,018
140: 3,052,306
159: 3,018,833
187: 3,047,075
191: 3,051,764
210: 3,042,120
212: 3,039,538
3,045,765
237: 3,065,802
239: 3,038,545
3,042,121
253: 3,052,307
264: 3,032,122
3,052,308
265: 3,047,122
268: 3,049,180
269: 3,022,835
3,061,019
272: 3,029,880
3,048,226
273: 3,035,316
3,026,944
3,043,375
3,063,504
274: 3,023,817
3,034,587
3,043,376
284: 3,066,746
285: 3,061,020
298: 3,049,181
305: 3,047,747
375: 3,044,560
378: 3,049,182
390: 3,051,252
397: 3,021,906
413: 3,059,705
3,065,803
439: 3,023,818
441: 3,021,907
444: 3,057,414
445: 3,025,915
3,035,645
3,059,706
448: 3,032,123
3,039,539
3,056,458
449: 3,039,540
3,068,944
450: 3,024,850
3,037,562
3,047,076
464: 3,047,301
466: 3,021,908
509: 3,026,945
519: 3,047,077
523: Re.25,237
543: 3,065,804
555: 3,040,818
556: 3,040,819
597: 3,033,295
611: 3,043,377
613: 3,028,920
629: 3,033,296
3,054,462
639: 3,016,958
642: 3,032,124
656: 3,026,946
677: 3,039,541
681: 3,050,135
682: 3,039,542
691: 3,049,183
698: 3,022,836
3,042,229
699: 3,024,851
707: 3,049,184
710: 3,031,019
720: 3,042,123
736: 3,036,643
738: 3,023,819
745: 3,070,177
747: 3,063,505
749: 3,068,945
750: 3,061,021
754: 3,043,378
755: 3,063,506
759: 3,050,136
3,050,137
762: 3,026,947

Class 174

5: 3,042,736
6: 3,029,302

6: 3,059,042
7: 3,060,257
3,060,258
8: 3,052,746
12: 3,019,280
3,043,900
3,067,277
14: 3,023,263
15: 3,021,389
3,022,368
3,024,298
3,043,901
3,065,290
3,067,278
16: 3,020,329
3,047,648
3,059,043
17: 3,038,955
3,038,956
3,048,648
18: 3,059,044
3,067,279
19: 3,032,601
3,041,408
22: 3,051,770
3,054,844
28: 3,055,967
31: 3,055,968
34: 3,017,450
3,020,330
3,054,845
35: 3,019,281
3,023,264
3,026,367
3,028,444
3,030,425
3,036,145
3,040,118
3,047,649
3,055,969
3,057,950
3,070,646
36: 3,051,771
37: 3,055,970
38: 3,033,912
40: 3,035,111
3,050,578
42: 3,048,649
3,052,747
3,068,314
43: 3,019,282
47: 3,042,737
48: 3,023,265
49: 3,047,650
3,061,663
50.5: 3,024,299
50.53: 3,061,664
50.57: 3,017,451
50.61: 3,024,300
50.64: 3,055,291
51: 3,052,748
52: 3,015,682
3,025,337
3,042,738
3,049,579
3,054,070
3,070,647
3,070,648
53: 3,038,020
3,038,957
3,059,045
3,064,071
57: 3,027,416
59: 3,049,580
60: 3,033,913
61: 3,051,772
62: 3,020,331
63: 3,025,338
3,054,846
65: 3,069,490
66: 3,042,739
68.5: 3,019,283
3,022,369
3,033,914
3,040,119
3,042,740
3,042,741
3,052,749
3,053,929
69: 3,027,417
3,036,146
3,037,068
3,038,021
3,042,742
3,052,750
3,053,929
71: 3,022,370
72: 3,020,332
3,024,301
3,027,418
3,027,419
3,035,112
3,055,971
73: 3,018,318
3,033,915
3,046,327
73: 3,049,581
74: 3,035,113
75: 3,023,266
3,070,649
77: 3,040,120
78: 3,057,951
79: 3,018,319
84: 3,015,683
3,019,284
3,025,339
3,035,114
3,036,147
3,047,651
3,060,259
3,065,292
3,068,315
85: 3,036,148
3,061,665
86: 3,028,445
87: 3,056,851
3,064,072
88: 3,015,684
3,031,521
3,054,847
3,065,293
3,070,650
89: 3,037,069
3,054,848
90: 3,015,685
3,032,602
3,048,650
92: 3,049,582
3,054,849
3,061,666
93: 3,040,121
94: 3,020,333
3,032,603
3,038,958
3,051,773
3,052,750
3,053,930
97: 3,029,303
99: 3,018,320
3,038,022
102: 3,031,522
3,031,523
107: 3,020,334
108: 3,047,652
110: 3,018,321
3,028,446
3,035,115
3,059,046
3,064,073
112: 3,020,335
3,031,524
113: 3,028,447
115: 3,023,267
3,032,604
117: 3,053,916
3,057,952
3,060,260
120: 3,019,285
3,025,340
3,042,743
3,048,651
3,049,584
3,060,261
3,062,912
121: 3,019,286
3,035,917
122: 3,015,686
127: 3,066,180
128: 3,032,605
3,070,651
135: 3,051,774
3,068,316
138: 3,019,287
3,042,744
139: 3,033,918
141: 3,036,149
144: 3,054,074
145: 3,054,850
146: 3,021,381
3,043,902
3,052,751
3,066,181
3,066,182
148: 3,032,606
151: 3,018,322
3,033,919
3,055,972
152: 3,017,452
3,037,070
3,043,903
3,046,328
153: 3,015,687
3,023,268
3,047,653
3,056,852
3,059,047
158: 3,019,288
3,043,904
164: 3,049,585
169: 3,026,368
173: 3,042,745
3,069,491
174: 3,021,382
177: 3,024,302
189: 2,024,303
196: 3,054,851
211: 3,061,667

Class 175

2: 3,043,379
4: 3,016,959
7: 3,017,934
3,021,909
3,025,916
3,032,125
3,047,078
3,050,138
3,050,139
3,050,140
8: 3,044,561
3,063,507
10: 3,027,951
14: 3,045,766
17: 3,070,178
18: 3,025,917
3,032,126
3,035,644
3,051,253
19: 3,049,185
3,054,463
20: 3,042,124
25: 3,021,910
26: 3,039,543
3,043,380
39: 3,058,532
3,062,302
41: 3,016,960
3,016,961
3,050,141
44: 3,032,127
3,059,707
45: 3,039,544
3,052,309
52: 3,025,918
54: 3,061,022
55: 3,023,820
56: 3,016,098
3,065,805
57: 3,028,921
61: 3,062,303
66: 3,016,962
3,030,545
3,040,820
3,040,821
70: 3,040,822
72: 3,070,179
73: 3,042,125
3,043,381
3,068,946
76: 3,045,767
81: 3,023,821
84: 3,043,382
3,057,415
86: 3,061,023
92: 3,016,963
3,018,834
93: 3,036,645
100: 3,045,768
103: 3,061,024
107: 3,022,837
3,036,646
3,047,079
3,055,440
108: 3,026,948
117: 2,028,922
123: 3,017,935
124: 3,064,741
3,065,806
125: 3,057,416
136: 3,016,964
137: 3,015,365
139: 3,055,441
144: 3,033,297
145: 3,054,464
147: 3,022,838
3,063,508
151: 3,053,329
152: 3,039,546
153: 3,026,949
154: 3,035,646
156: 3,034,588
161: 3,026,950
162: 3,038,546
3,040,823
168: 3,026,951
170: 3,053,330
184: 3,024,852
185: 3,054,465
195: 3,038,547
197: 3,017,936
200: 3,063,509
201: 3,022,839
3,044,562
201: 3,047,080
3,058,533
202: 3,053,331
206: 3,070,180
209: 3,033,298
211: 3,045,769
212: 3,057,417
213: 3,024,853
226: 3,064,742
228: 3,017,937
3,029,881
3,048,230
230: 3,055,442
237: 3,020,964
239: 3,047,081
247: 3,066,748
251: 3,039,547
257: 3,051,254
260: 3,030,142
261: 3,050,143
265: 3,051,255
292: 3,032,128
294: 3,057,418
296: 3,038,548
3,062,304
297: 3,062,305
299: 3,024,854
314: 3,056,459
317: 3,024,855
3,025,919
3,066,749
318: 3,058,534
319: 3,040,824
320: 3,032,129
321: 3,065,807
324: 3,022,840
328: 3,019,845
329: 3,027,952
3,066,750
330: 3,026,952
3,055,443
3,058,535
331: 3,070,181
339: 3,070,182
344: 3,016,099
347: 3,054,466
378: 3,018,835
383: 3,043,383
385: 3,020,953
3,042,126
3,043,384
387: 3,035,647
391: 3,024,856
393: 3,048,231
3,059,708
401: 3,043,385
403: 3,032,130
406: 3,052,310
408: 3,018,836
409: 3,027,953
3,062,306
410: 3,034,589
412: 3,039,548
3,040,825
3,061,025
415: 3,047,082
418: 3,036,647
422: 3,020,965

Class 177

1: 3,058,536
2: 3,023,822
3: 3,054,563
3,054,743
4: 3,037,563
3,050,144
5: 3,059,709
12: 3,057,419
3,058,537
13: 3,061,026
30: 3,057,420
52: 3,016,100
3,027,954
58: 3,020,826
61: 3,020,966
68: 3,042,127
69: 3,045,770
70: 3,034,590
3,035,648
3,058,538
71: 3,024,857
80: 3,022,841
3,022,842
82: 3,064,527
98: 3,022,843
99: 3,025,920
105: 3,025,921
117: 3,040,826
118: 3,062,307
120: 3,053,332
122: 3,033,299
126: 3,043,386
129: 3,031,020
3,032,131
132: 3,028,923
136: 3,059,710
141: 3,017,938
149: 3,057,421
150: 3,029,882
3,047,083
151: 3,039,549
3,065,808
156: 3,065,809
171: 3,032,132
3,068,947
173: 3,031,021
3,057,828
178: 3,035,649
184: 3,027,955
190: 3,022,844
191: 3,055,444
194: 3,061,027
199: 3,036,648
202: 3,066,751
203: 3,027,956
207: 3,023,823
208: 3,017,939
3,026,969
210: 3,042,128
3,050,145
3,057,422
211: 3,027,957
3,066,752
224: 3,068,948
229: 3,047,084
3,062,308
230: 3,022,845
3,031,022
3,044,564
3,044,565
232: 3,043,387
246: 3,017,940
3,019,846
3,029,883
3,038,549
247: 3,027,958
248: 3,026,954
251: 3,021,911

Class 178

2: 3,020,336
3,020,337
3,022,371
3,023,269
6.6: 3,036,150
3,038,023
3,039,291
3: 3,025,341
3,029,304
3,043,905
3,059,048
4.1: 3,022,372
3,032,607
5: 3,025,342
5.1: 3,021,383
3,023,270
3,041,389
3,051,775
3,065,294
3,067,280
3,069,492
3,070,652
5.2: 3,041,390
3,048,652
3,053,931
3,054,852
5.4: Re.25,169
3,015,688
3,015,689
6.7: 3,017,453
3,030,443
3,033,923
3,033,924
3,036,152
3,041,603
3,043,907
3,043,908
3,046,331
3,047,654
3,049,590
3,051,778
3,051,779
3,057,953
3,061,669
3,061,670
3,061,671
3,067,282
3,067,283
7.1: 3,015,690
3,018,331
3,036,153
3,037,564
3,038,024
3,047,655
3,050,581
3,055,974
5.4: 3,054,853
3,055,973
3,056,853
3,062,914
3,064,075
3,065,295
3,068,317
3,070,653
3,070,654
5.6: 3,021,384
3,033,922
3,042,747
3,046,329
3,050,579
5.8: 3,018,325
3,018,326
3,018,327
3,018,328
3,018,329
3,018,330
3,023,272
3,024,306
3,025,343
3,026,969
3,028,448
3,029,305
3,037,072
3,045,060
3,049,586
3,049,587
3,056,854
3,062,915
3,064,076
3,070,655
6: 3,017,456
3,017,457
3,020,340
3,021,385
3,021,386
3,027,420
3,030,440
3,040,123
3,049,588
3,052,753
3,053,932
3,061,668
3,069,493
6.5: 3,020,341
3,046,330
3,052,754
6.6: 3,016,415
3,016,416
3,019,291
3,022,373
3,022,374
3,025,344
3,028,449
3,029,306
3,030,441
3,031,525
3,036,151
3,037,073
3,040,124
3,040,125
3,043,906
3,049,589
3,050,580
3,051,777
3,052,755
3,059,049
3,064,077
3,068,318
6.7: 3,019,292
3,037,074
3,054,854
3,064,078
6.8: 3,017,458
3,030,442
3,030,443
3,033,923
3,033,924
3,036,152
3,041,603
3,043,908
3,046,331
3,047,654
3,049,590
3,051,778
3,051,779
3,057,953
3,061,669
3,061,670
3,061,671
3,067,282
3,067,283
7.1: 3,059,050
3,060,262
3,061,671
3,061,672
3,069,494
7.2: 3,026,370
3,038,025
3,038,959
3,040,126
3,046,332
3,046,333
3,046,334
3,055,975
3,061,673
3,062,916
3,067,284
3,069,495
7.3: Re.25,284
3,021,387
3,030,444
3,038,026
3,038,027
3,041,394
3,046,335
3,049,591
3,053,933
3,057,954
3,066,183
7.5: Re.25,150
3,015,691
3,016,417
3,024,307
3,025,345
3,027,421
3,037,565
3,040,127
3,043,909
3,047,656
3,051,780
3,051,781
3,055,976
3,070,656
7.8: 3,015,692
7.81: 3,048,654
7.82: 3,031,526
3,051,782
7.85: 3,043,910
3,059,051
7.86: 3,048,655
7.87: 3,015,693
7.88: 3,041,395
7.91: 3,036,154
3,062,917
17: 3,016,418
3,017,459
3,017,460
3,018,332
3,021,388
3,025,346
3,033,925
3,036,155
3,043,911
3,047,657
3,064,079
3,066,184
3,069,496
18: 3,016,419
3,016,420
3,032,609
3,035,118
3,038,028
3,051,783
3,057,955
3,057,956
3,064,080
25: 3,024,308
3,025,347
3,025,348
26: 3,016,422
3,017,461
3,019,293
3,038,029
3,038,030
3,041,396
3,056,855
27: 3,048,656
33: 3,033,926
3,033,927
42: 3,038,962
43.5: 3,032,610
3,037,076

Class 178—Con.

43. 5: 3, 037, 077
50: 3, 015, 694
3, 040, 128
52: 3, 020, 342
53. 1: 3, 022, 375
3, 038, 031
3, 038, 032
61: 3, 048, 657
66: 3, 031, 527
3, 032, 611
3, 051, 786
67: 3, 036, 157
69: 3, 021, 390
3, 025, 549
3, 040, 129
3, 045, 061
3, 056, 856
3, 057, 957
3, 057, 958
3, 069, 497
3, 069, 498
69. 5: 3, 017, 462
3, 027, 422
3, 033, 928
3, 038, 033
3, 038, 034
3, 045, 062
3, 047, 658
3, 059, 652
3, 061, 674
3, 065, 296
3, 067, 285
3, 069, 499
3, 070, 657
70: 3, 037, 078
3, 045, 063
3, 051, 787
3, 057, 959
3, 065, 297
3, 069, 500
71: 3, 040, 130
73: 3, 033, 929
3, 038, 035
3, 040, 131
79: Re. 25, 235
3, 016, 423
3, 017, 463
3, 065, 298
81: 3, 022, 376
82: 3, 037, 566
3, 041, 397
88: 3, 017, 464
3, 018, 333
3, 026, 372
3, 037, 079
3, 037, 080
3, 038, 963
3, 047, 659
3, 047, 660
3, 048, 658
92: 3, 065, 299

Class 179

1: 3, 015, 695
3, 016, 424
3, 020, 343
3, 020, 344
3, 020, 345
3, 022, 377
3, 022, 378
3, 022, 379
3, 023, 273
3, 023, 274
3, 024, 309
3, 024, 310
3, 026, 373
3, 026, 374
3, 027, 423
3, 028, 450
3, 029, 307
3, 030, 445
3, 030, 446
3, 031, 528
3, 033, 930
3, 035, 119
3, 035, 120
3, 036, 158
3, 037, 081
3, 037, 082
3, 037, 567
3, 038, 964
3, 038, 965
3, 038, 966
3, 042, 748
3, 042, 749
3, 043, 912
3, 043, 913
3, 045, 064
3, 045, 065
3, 046, 337
3, 047, 661
1: 3, 048, 659
3, 050, 582
3, 050, 583
3, 050, 584
3, 051, 788
3, 052, 756
3, 052, 757
3, 052, 758
3, 053, 934
3, 054, 855
3, 054, 856
3, 055, 979
3, 055, 980
3, 056, 857
3, 057, 960
3, 057, 961
3, 059, 053
3, 060, 263
3, 060, 264
3, 060, 265
3, 060, 266
3, 061, 675
3, 061, 676
3, 061, 677
3, 065, 300
3, 066, 186
3, 066, 187
3, 066, 188
3, 066, 189
3, 067, 286
3, 067, 287
3, 067, 288
3, 068, 319
3, 070, 658
3, 070, 659
3, 070, 660
1. 5: 3, 025, 350
3, 029, 308
3, 029, 309
3, 054, 857
3, 059, 054
2: 3, 020, 346
3, 042, 750
3, 046, 338
3, 046, 339
3, 047, 662
3, 049, 592
3, 054, 858
3, 065, 301
3, 069, 501
2. 5: 3, 045, 066
3: 3, 046, 340
5: 3, 038, 967
3, 055, 981
3, 061, 678
3, 061, 679
5. 5: 3, 045, 067
6: 3, 022, 380
3, 028, 451
3, 045, 068
3, 045, 069
3, 047, 663
3, 048, 658
6. 3: 3, 019, 294
3, 020, 347
3, 020, 348
3, 027, 424
3, 041, 398
3, 046, 341
3, 048, 660
3, 066, 190
3, 069, 502
6. 4: 3, 022, 381
6. 5: 3, 022, 275
7: 3, 059, 055
3, 062, 918
3, 067, 290
3, 068, 320
7. 1: 3, 019, 295
3, 025, 351
3, 041, 399
3, 046, 342
3, 047, 664
3, 051, 789
8: 3, 018, 334
3, 047, 665
8. 5: 3, 046, 343
3, 070, 661
9: 3, 046, 344
3, 051, 790
3, 069, 503
15: 3, 020, 349
3, 020, 350
3, 020, 351
3, 023, 276
3, 023, 277
3, 024, 311
3, 024, 312
3, 026, 375
3, 029, 310
3, 029, 311
3, 029, 312
3, 029, 313
15: 3, 030, 447
3, 030, 448
3, 030, 449
3, 031, 529
3, 037, 568
3, 040, 132
3, 041, 400
3, 041, 401
3, 042, 751
3, 042, 752
3, 043, 914
3, 045, 070
3, 045, 071
3, 046, 345
3, 046, 346
3, 046, 347
3, 046, 348
3, 047, 666
3, 048, 661
3, 049, 593
3, 050, 586
3, 050, 587
3, 051, 791
3, 052, 759
3, 052, 760
3, 054, 859
3, 056, 858
3, 057, 962
3, 059, 056
3, 060, 267
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3, 061, 680
3, 061, 681
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3, 061, 683
3, 062, 919
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3, 069, 504
3, 069, 505
3, 070, 662
3, 070, 663
15. 5: 3, 019, 296
3, 024, 313
15. 55: 3, 020, 352
3, 027, 425
3, 030, 450
3, 035, 121
3, 037, 083
3, 069, 506
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16: 3, 035, 122
3, 065, 305
17: 3, 015, 696
3, 019, 297
3, 024, 314
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3, 035, 123
3, 036, 159
3, 046, 349
3, 051, 792
3, 055, 859
3, 070, 664
18: Re. 25, 139
3, 015, 697
3, 015, 698
3, 015, 699
3, 016, 425
3, 019, 298
3, 019, 299
3, 023, 353
3, 022, 382
3, 023, 278
3, 024, 315
3, 024, 316
3, 024, 317
3, 025, 356
3, 025, 357
3, 026, 376
3, 027, 426
3, 027, 427
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3, 033, 935
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3, 033, 937
3, 035, 124
3, 035, 125
3, 036, 160
3, 036, 161
18: 3, 037, 084
3, 038, 968
3, 038, 969
3, 041, 403
3, 041, 404
3, 041, 405
3, 041, 406
3, 041, 407
3, 043, 915
3, 046, 350
3, 046, 351
3, 047, 667
3, 047, 668
3, 049, 594
3, 050, 588
3, 050, 589
3, 051, 793
3, 051, 794
3, 053, 935
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3, 053, 937
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3, 055, 983
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3, 066, 191
3, 066, 192
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3, 068, 324
3, 070, 665
3, 070, 666
22: 3, 017, 465
3, 041, 409
3, 046, 352
3, 048, 662
27: 3, 029, 315
3, 033, 938
3, 047, 669
3, 050, 590
3, 055, 984
3, 060, 273
3, 066, 194
27. 54: 3, 030, 451
3, 033, 939
3, 037, 085
3, 053, 938
3, 059, 059
3, 060, 274
37: 3, 064, 081
3, 064, 082
38: 3, 064, 083
39: 3, 036, 162
3, 061, 686
40: 3, 055, 985
41: 3, 050, 591
42: 3, 015, 700
3, 037, 086
3, 037, 087
3, 057, 963
43: 3, 041, 410
51: 3, 033, 940
81: 3, 027, 428
3, 027, 429
3, 028, 452
3, 028, 453
3, 041, 411
3, 046, 353
3, 046, 354
3, 052, 761
3, 064, 084
3, 068, 325
3, 069, 508
3, 069, 509
82: 3, 021, 391
3, 043, 916
3, 047, 670
84: 3, 016, 426
3, 036, 163
3, 057, 964
3, 059, 060
3, 059, 061
3, 060, 275
3, 065, 309
3, 066, 195
3, 070, 667
86: 3, 050, 592
87: 3, 026, 377
89: 3, 033, 941
3, 064, 085
90: 3, 021, 392
3, 025, 358
3, 040, 133
3, 041, 412
3, 043, 917
3, 046, 355
3, 055, 986
3, 060, 276
3, 061, 687
3, 062, 920
3, 062, 921
91: 3, 033, 942
3, 057, 965
95: 3, 046, 356
100: 3, 064, 086
100. 1: Re. 25, 259
3, 015, 701
3, 017, 466
3, 019, 300
3, 021, 393
3, 021, 394
3, 026, 378
3, 027, 430
3, 031, 530
3, 047, 671
3, 048, 663
3, 051, 795
3, 057, 966
3, 059, 062
3, 061, 688
100. 11: 3, 018, 335
3, 037, 094
3, 037, 569
3, 042, 758
3, 070, 671
100. 2: 3, 015, 702
3, 016, 427
3, 016, 428
3, 016, 429
3, 019, 301
3, 019, 302
3, 019, 303
3, 020, 354
3, 020, 355
3, 020, 356
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3, 020, 360
3, 021, 395
3, 022, 383
3, 023, 279
3, 023, 280
3, 024, 318
3, 024, 319
3, 024, 320
3, 026, 379
3, 026, 380
3, 026, 381
3, 027, 431
3, 028, 454
3, 029, 316
3, 029, 317
3, 029, 318
3, 029, 319
3, 030, 452
3, 030, 453
3, 031, 531
3, 031, 532
3, 031, 533
3, 031, 534
3, 031, 535
3, 032, 612
3, 032, 613
3, 033, 943
3, 036, 164
3, 037, 088
3, 037, 089
3, 037, 090
3, 037, 091
3, 037, 092
3, 037, 093
3, 038, 036
3, 040, 134
3, 040, 135
3, 041, 413
3, 041, 414
3, 041, 415
3, 041, 416
3, 041, 417
3, 042, 753
3, 042, 754
3, 042, 755
3, 042, 756
3, 043, 918
3, 043, 919
3, 045, 072
3, 046, 357
3, 046, 358
3, 046, 359
3, 047, 672
3, 047, 673
3, 047, 674
3, 048, 664
3, 048, 665
3, 048, 666
3, 049, 583
3, 049, 595
3, 050, 593
3, 050, 594
3, 050, 595
3, 050, 596
3, 051, 796
3, 051, 797
3, 052, 762
3, 053, 939
100. 2: 3, 053, 940
3, 053, 941
3, 053, 942
3, 054, 860
3, 054, 861
3, 055, 987
3, 057, 967
3, 057, 968
3, 057, 969
3, 057, 970
3, 059, 063
3, 060, 277
3, 060, 278
3, 060, 279
3, 060, 940
3, 062, 922
3, 062, 923
3, 064, 087
3, 064, 088
3, 065, 310
3, 065, 311
3, 065, 312
3, 066, 196
3, 066, 197
3, 066, 198
3, 067, 294
3, 068, 326
3, 068, 327
3, 070, 668
3, 070, 669
3, 070, 670
100. 3: 3, 047, 675
3, 059, 064
3, 062, 924
3, 066, 199
100. 4: 3, 024, 321
3, 024, 322
3, 030, 454
3, 038, 037
3, 042, 757
3, 059, 065
3, 069, 510
100. 41: 3, 015, 703
3, 017, 467
3, 018, 336
3, 020, 361
3, 022, 384
3, 026, 382
3, 026, 383
3, 027, 432
3, 028, 455
3, 031, 536
3, 032, 614
3, 035, 126
3, 040, 136
3, 043, 920
3, 043, 921
3, 046, 360
3, 046, 361
3, 047, 676
3, 047, 677
3, 048, 667
3, 051, 798
3, 053, 943
3, 054, 862
3, 055, 988
3, 055, 989
3, 056, 860
3, 056, 861
3, 057, 971
3, 060, 280
3, 060, 281
3, 062, 925
3, 067, 295
3, 067, 296
107: 3, 015, 704
3, 030, 455
3, 030, 456
3, 031, 537
3, 035, 127
3, 038, 038
3, 045, 073
3, 054, 863
3, 055, 990
3, 059, 066
3, 061, 689
110: 3, 025, 359
3, 033, 944
111: 3, 030, 457
3, 031, 538
3, 041, 418
113: 3, 022, 385
114: 3, 019, 304
115: 3, 060, 282
3, 062, 926
115. 5: 3, 016, 430
3, 024, 323
3, 033, 945
3, 046, 362
3, 055, 991
3, 061, 690
3, 066, 200
122: 3, 064, 089
138: 3, 068, 328
146: 3, 019, 305
146: 3, 019, 306
3, 021, 396
3, 022, 386
3, 038, 039
148: 3, 040, 137
156: 3, 031, 539
3, 053, 944
3, 069, 511
157: 3, 025, 360
3, 056, 862
164: 3, 027, 432
170: 3, 024, 324
3, 042, 759
3, 045, 074
3, 046, 363
3, 068, 329
170. 2: 3, 066, 201
175: 3, 057, 972
3, 067, 297
175. 1: 3, 019, 307
3, 054, 864
3, 061, 691
175. 2: 3, 023, 281
3, 026, 383
3, 047, 679
3, 047, 680
3, 069, 512
175. 23: 3, 059, 067
175. 25: 3, 064, 090
175. 3: 3, 021, 397
3, 021, 398
175. 31: 3, 047, 678
3, 049, 596
3, 054, 865
3, 059, 068
3, 062, 927
3, 070, 672
179: 3, 048, 668
182: 3, 022, 387
3, 030, 458
185: 3, 018, 337
3, 040, 138
3, 049, 597
189: 3, 069, 513

Class 180

1: 3, 016, 101
3, 020, 967
3, 029, 884
3, 029, 885
3, 029, 886
3, 031, 023
3, 057, 423
3, 057, 424
3, 061, 028
3, 067, 829
3, 068, 949
3: 3, 044, 566
5: 3, 016, 965
6: 3, 017, 941
6. 2: 3, 035, 651
6. 24: 3, 064, 745
6. 45: 3, 024, 858
6. 5: 3, 031, 024
3, 037, 570
3, 040, 827
3, 040, 828
3, 064, 744
6. 66: 3, 052, 311
6. 7: 3, 055, 445
7: 3, 018, 837
3, 067, 296
3, 039, 550
3, 042, 329
3, 050, 146
3, 055, 446
3, 059, 711
3, 066, 753
8: 3, 034, 591
3, 054, 863
9. 2: 3, 017, 942
3, 036, 650
3, 040, 829
3, 053, 333
3, 053, 934
3, 063, 510
9. 24: 3, 068, 950
9. 48: 3, 037, 571
9. 5: 3, 045, 771
9. 64: 3, 023, 524
10: 3, 035, 652
3, 055, 448
3, 059, 712
11: 3, 022, 846
3, 031, 539
12: 3, 061, 029
3, 061, 030
3, 063, 511
13: 3, 059, 713
14: 3, 025, 922
3, 033, 300
3, 035, 653
3, 035, 654

14: 3,038,550
3,042,130
3,059,714
3,063,512
14.5: 3,024,859
15: 3,023,825
3,039,551
19: 3,029,887
3,036,651
3,040,830
3,043,388
3,055,449
20: 3,054,467
21: 3,032,133
22: Re.25,269
3,016,102
3,027,959
3,029,888
3,034,592
3,053,335
23: 3,023,826
24: 3,051,256
26: 3,016,966
3,033,301
3,061,031
27: 3,042,131
3,043,389
3,057,425
30: 3,016,967
31: 3,045,772
3,056,460
32: 3,024,860
3,042,132
3,029,889
42: 3,057,426
82.1: 3,017,946
43: 3,042,133
3,045,773
3,048,232
44: 3,027,960
3,054,468
3,057,427
45: 3,035,655
3,044,567
3,067,830
49: 3,048,233
51: 3,045,774
3,049,186
52: 3,056,461
53: 3,061,032
3,061,033
3,065,810
54: 3,017,943
3,036,652
3,037,572
3,043,390
3,052,312
3,054,469
3,064,746
3,064,747
55: 3,052,313
64: 3,019,847
3,022,847
3,033,302
65: 3,033,303
66: 3,039,552
3,067,831
68.5: 3,033,304
3,053,336
3,061,034
69: 3,017,944
3,022,848
3,057,428
3,061,748
70: 3,037,573
3,037,574
3,044,568
3,047,085
3,049,811
73: 3,020,968
3,028,924
3,064,749
3,064,750
3,068,551
75: 3,031,025
77: 3,022,849
3,022,850
3,027,961
3,029,552
3,029,553
3,039,554
3,042,134
3,059,715
3,059,716
79.1: 3,029,890
3,033,305
3,037,575
3,061,035
79.2: Re.25,280
3,017,945
3,023,827
3,027,963
3,028,925
3,032,134
3,032,135
79.2: 3,043,391
3,044,569
3,047,086
3,047,087
3,048,234
3,049,187
3,051,257
3,057,429
3,059,717
3,061,036
3,064,751
3,067,832
82: 3,016,968
3,016,969
3,019,848
3,021,912
3,021,913
3,028,926
3,029,891
3,029,892
3,037,576
3,039,555
3,039,556
3,040,831
3,042,135
3,043,392
3,045,775
3,049,188
3,051,258
3,054,470
3,064,752
3,068,952
3,070,183
3,070,184
82.1: 3,017,946
3,020,969
3,023,828
3,029,893
3,042,136
3,050,147
3,062,310
3,062,311
3,062,312
3,065,812
3,065,813
3,068,953
3,070,185
83: 3,023,829
3,056,462
89: 3,039,557
3,051,259
90: 3,040,832
3,042,137
3,053,337
90.6: 3,047,088
3,052,314

Class 181

.5: Re.25,204
3,016,970
3,018,838
3,018,839
3,020,970
3,022,851
3,022,852
3,024,861
3,029,894
3,034,593
3,034,594
3,034,595
3,038,551
3,039,558
3,039,559
3,040,833
3,048,235
3,049,189
3,050,148
3,050,149
3,050,150
3,050,151
3,053,338
3,054,471
3,054,472
3,054,473
3,055,450
3,056,463
3,056,464
3,058,539
3,058,540
3,059,718
3,061,037
3,062,313
3,062,314
3,062,315
3,064,753
3,065,814
3,065,815
3,066,754
23: 3,047,089
3,068,954
24: 3,020,971
3,035,656
3,067,833
27: 3,022,853
3,028,927
3,057,430
3,058,541
31: Re.25,217
3,015,366
3,019,849
3,023,830
3,026,955
3,026,956
3,026,957
3,027,964
3,032,136
3,032,137
3,037,577
3,044,570
3,045,776
3,047,090
3,053,339
3,055,451
3,059,719
3,059,720
3,065,816
3,065,817
3,067,834
3,068,955
32: 3,026,958
3,032,138
33: 3,016,971
3,017,947
3,018,840
3,021,914
3,021,915
3,021,916
3,027,965
3,035,657
3,037,578
3,039,560
3,049,190
3,051,260
3,053,340
3,061,038
3,062,316
3,065,818
3,066,755
42: 3,019,850
3,061,039
44: 3,029,895
3,036,653
46: 3,033,306
50: 3,032,139
51: 3,044,571
52: 3,047,091
54: 3,031,026
3,036,654
3,036,655
55: 3,070,187
56: 3,016,972
3,018,841
3,035,658
3,038,552
57: 3,029,896
3,043,393
58: 3,036,656
59: 3,033,307
3,038,553
64: 3,017,948
3,042,138
66: 3,062,317
3,066,755
67: 3,054,474

Class 182

2: 3,022,854
3,039,561
3,043,394
3,043,395
3,064,754
3,066,756
3: 3,022,855
3,034,596
11: 3,026,959
13: 3,035,659
3,059,721
14: 3,016,973
15: 3,020,972
3,026,960
21: 3,026,961
3,063,513
23: 3,026,962
26: 3,068,957
27: 3,062,318
28: 3,047,092
33: 3,016,974
3,059,722
33.5: 3,042,139
36: 3,066,757
41: 3,050,152
45: 3,058,542
46: 3,042,140
48: 3,016,975
3,024,862
3,033,308
49: 3,027,966
58: 3,038,554
3,061,040
63: 3,031,027
3,063,514
3,065,819
78: 3,024,863
3,051,261
82: 3,023,831
83: 3,038,555
3,044,572
87: 3,044,573
89: 3,068,958
90: 3,033,309
91: 3,039,562
92: 3,017,949
93: 3,023,832
3,026,963
3,065,820
95: 3,021,917
3,042,141
3,055,452
3,067,835
96: 3,025,923
97: 3,047,093
103: 3,043,396
107: 3,037,579
3,059,723
108: 3,062,319
111: 3,019,851
112: 3,021,918
121: 3,067,836
124: 3,043,397
125: 3,031,028
126: 3,016,103
127: 3,043,398
128: 3,058,543
129: 3,016,104
3,018,842
3,042,142
3,058,544
3,061,041
134: 3,019,852
137: 3,027,967
148: 3,056,465
149: 3,016,105
150: 3,021,919
3,052,315
153: 3,045,777
155: 3,004,735
156: 3,025,924
3,057,432
157: 3,025,925
160: 3,024,864
163: 3,042,143
3,057,431
3,070,188
178: 3,023,833
3,028,928
181: 3,035,660
3,064,756
185: 3,042,144
186: 3,024,865
3,040,834
3,055,453
187: 3,065,821
188: 3,021,920
193: 3,022,856
194: 3,016,976
195: 3,061,042
196: 3,033,310
3,043,399
198: 3,031,029
200: 3,037,580
201: 3,021,921
3,025,926
3,027,968
3,032,140
202: 3,027,969
3,037,581
206: 3,028,929
3,029,897
214: 3,020,973
3,056,466
221: 3,025,927
3,032,141
222: 3,022,857
223: 3,023,834
224: 3,036,657
229: 3,024,866

Class 183

2: 3,016,106
3,016,107
3,017,950
3,019,853
3,022,858
3,023,835
3,023,836
2.5: 3,016,977
3,017,951
3,018,843
2.7: 3,025,928
4: 3,015,367
4.1: 3,016,978
4.8: 3,016,108
7: 3,016,979
3,016,980
3,017,952
3,017,953
3,018,844
3,018,845
3,026,964
3,026,965
3,027,970
15: 3,022,859
3,026,966
22: 3,018,847
3,020,974
24: 3,023,837
27: 3,016,981
32: 3,020,975
37: 3,023,838
41: 3,022,860
43: 3,016,982
44: 3,026,967
49: 3,019,854
3,023,839
51: 3,016,983
61: 3,016,109
62: 3,019,855
3,020,976
71: 3,022,861
73: 3,016,984
3,020,977
3,026,968
74: 3,017,954
77: 3,023,840
80: 3,019,856
114.2: 3,015,368
3,015,369
3,023,841
3,024,867
3,024,868
115: 3,016,985
3,021,922
3,023,842
3,023,843
3,026,969
121: 3,016,896

Class 184

1: 3,048,236
3,052,316
3,053,341
3,057,433
3,064,757
1.5: 3,029,898
3,033,311
2: 3,039,563
3: 3,015,370
3,051,262
3,059,724
5: 3,042,142
3,033,312
6: 3,016,110
3,019,857
3,022,862
3,023,844
3,023,845
3,023,846
3,023,847
3,027,971
3,027,972
3,033,313
3,033,314
3,036,658
3,037,582
3,038,556
3,042,145
3,042,146
3,042,147
3,042,148
3,045,778
3,049,191
3,052,317
3,053,342
3,057,434
3,057,435
3,057,436
3,064,758
3,065,822
7: 3,022,863
3,024,869
3,025,929
3,027,973
3,031,032
3,033,315
3,035,661
3,038,557
3,051,263
3,052,318
3,062,320
3,064,759
3,066,758
3,066,759
7: 3,068,959
11: 3,036,659
3,037,583
15: 3,017,955
3,023,848
3,031,033
3,051,264
3,067,837
16: 3,038,558
17: 3,020,978
18: 3,068,960
29: 3,068,961
40: 3,062,321
55: 3,023,849
3,040,835
3,044,574
3,062,322
3,064,760
83: 3,040,836
91: 3,020,979
3,028,930
96: 3,053,343
99: 3,027,974
103: 3,015,371
105: 3,061,043
106: 3,027,975
3,044,575
3,062,323

Class 185

9: 3,047,094
37: 3,029,899
3,033,316
3,045,779
3,059,725
3,063,515
38: 3,023,850
40: 3,067,838

Class 186

1: 3,023,851
3,028,931
3,036,660
3,039,564
3,039,565
3,052,319
3,058,545
3,062,324
3,066,760

Class 187

1: 3,036,661
3,052,320
3,052,321
3,066,761
2: 3,053,344
3: 3,043,400
3,047,095
6: 3,017,956
8.41: 3,061,044
3,070,189
8.43: 3,048,237
3,057,437
8.49: 3,036,488
8.5: 3,040,837
8.67: 3,055,454
8.72: 3,026,970
8.74: 3,048,238
8.75: 3,018,848
3,019,858
3,035,662
3,036,662
3,052,322
3,039,726
9: 3,016,987
3,018,849
3,035,663
3,036,663
3,036,664
3,042,149
3,044,576
3,050,153
3,051,265
3,061,045
3,062,325
3,064,761
3,067,839
10: 3,052,323
17: 3,016,988
3,018,850
3,043,401
19: 3,016,989
28: 3,051,266
29: 3,022,864
3,022,865
3,022,866
3,026,971
3,036,665
3,040,838
3,048,239
3,051,267
29: 3,051,268
3,056,469
3,058,546
3,065,823
3,065,824
3,065,825
31: 3,050,470
48: 3,017,957
3,018,851
3,047,096
3,050,154
3,054,475
52: 3,033,317
3,040,839
3,050,155
3,063,516
3,063,517
3,065,826
3,066,762
60: 3,051,269
61: 3,029,900
95: 3,061,046
3,061,047
3,070,190

Class 188

1: 3,020,980
3,026,972
3,031,034
3,033,318
3,034,597
3,052,324
3,059,727
2: 3,028,932
3,051,270
3,059,728
3,064,762
3: 3,034,598
3,054,476
3,062,326
4: 3,042,150
3,042,151
5: 3,024,870
3,044,577
3,052,325
3,062,327
18: 3,033,319
3,051,271
3,061,048
21: 3,061,049
29: 3,043,402
32: 3,024,871
3,026,973
3,054,477
3,065,827
3,068,962
33: 3,056,471
3,062,328
43: 3,017,958
46: 3,036,666
3,048,240
3,059,729
52: 3,017,959
3,017,960
3,040,840
57: 3,017,961
59: 3,024,872
3,027,976
3,034,599
62: 3,055,455
65.1: 3,027,977
3,057,438
67: 3,066,763
69: 3,043,403
3,049,193
3,065,828
3,066,963
70: 3,032,143
3,033,320
71: 3,031,035
72: 3,018,852
3,019,859
3,027,978
3,027,979
3,032,144
3,038,559
3,044,578
3,044,579
3,047,097
3,048,241
3,053,345
3,059,730
3,061,050
3,064,763
3,064,764
73: 3,016,111
3,024,873
3,035,664
3,042,152
3,047,098
3,048,242
3,051,272
3,052,326

Class 188—Con.

73: 3,053,346
3,055,456
3,056,472
3,059,731
3,062,329
3,064,765
3,065,829
74: 3,025,930
3,066,764
75: 3,036,667
76: 3,052,327
77: 3,028,933
3,034,600
3,036,668
3,064,766
78: 3,016,112
3,018,853
3,021,923
3,023,852
3,023,853
3,027,980
3,027,981
3,029,901
3,034,601
3,037,584
3,047,099
3,047,100
3,048,243
3,050,156
3,053,347
3,061,051
3,064,767
3,066,765
3,066,766
79.5: 3,016,990
3,017,962
3,034,602
3,034,603
3,049,192
3,050,157
3,057,439
3,067,840
3,068,964
3,068,965
82.34: 3,017,963
82.7: 3,021,924
82.8: 3,021,925
82.84: 3,017,964
83: 3,023,854
3,025,931
86: 3,054,478
3,057,440
87: 3,062,330
88: 3,021,926
3,024,874
3,024,875
3,032,145
3,036,669
3,038,560
3,039,566
3,040,841
3,043,404
3,057,441
3,062,331
3,063,518
3,066,767
3,070,191
90: 3,016,991
3,024,876
3,029,902
3,033,321
3,034,604
3,045,780
3,051,273
3,070,192
91: 3,026,974
3,033,322
93: 3,018,854
3,038,561
94: 3,037,585
95: 3,040,842
96: 3,029,903
3,034,605
3,051,274
3,052,328
97: 3,029,904
3,033,323
3,045,781
99: 3,042,153
100: 3,020,981
3,038,562
3,042,154
3,056,473
3,067,841
102: 3,052,329
106: 3,031,036
3,058,547
3,066,768
111: 3,029,905
3,031,037
3,031,038
112: 3,026,975
3,053,348
3,058,548
3,062,332
3,065,830
129: 3,070,193
136: 3,029,906
3,035,665
138: 3,037,586
140: 3,020,982
3,044,580
151: 3,043,405
152: 3,033,324
3,044,581
3,047,101
3,050,158
3,054,479
3,062,333
3,064,768
3,067,842
153: 3,040,843
3,053,349
163: 3,017,965
164: 3,054,480
170: 3,033,325
3,047,102
3,068,966
171: 3,028,934
3,032,146
3,045,782
181: 3,031,039
184: 3,020,983
186: 3,061,052
189: 3,016,113
195: 3,023,855
3,057,982
196: 3,019,860
3,026,976
3,037,587
3,043,406
3,051,275
200: 3,025,932
3,040,844
202: 3,029,907
203: 3,016,114
210: 3,018,855
3,023,856
3,056,474
212: 3,020,984
217: 3,035,666
218: 3,035,667
3,038,563
3,053,350
3,057,442
243: 3,015,372
250: 3,064,769
251: 3,033,326
252: 3,017,966
264: 3,018,856
3,022,867
3,022,868
3,023,857
3,023,858
3,028,935
3,028,936
3,029,908
3,029,909
3,033,327
3,033,328
3,033,329
3,038,564
3,039,567
3,040,845
3,042,155
3,044,582
3,047,103
3,047,104
3,047,105
3,051,276
3,055,457
3,055,458
3,061,053

Class 189

1: 3,019,861
3,031,040
3,034,606
3,038,565
3,047,106
3,051,277
3,058,549
3,058,550
3,062,334
3,063,519
1.5: 3,034,607
2: 3,016,115
3,018,857
3,018,858
3,039,568
3,053,351
3,054,481
3: 3,015,373
3,038,566
3: 3,064,770
7: 3,017,967
8: 3,053,352
11: 3,015,374
3,032,147
3,050,159
3,055,459
12: 3,062,335
14: 3,016,992
3,017,968
3,047,107
15.5: 3,032,148
3,037,588
19: 3,020,985
3,024,877
3,062,336
21.3: 3,059,732
24: 3,040,846
26: 3,035,668
3,038,567
3,045,783
29: 3,031,041
3,032,149
3,066,769
31.5: 3,049,194
3,051,278
32: 3,057,443
33: 3,070,194
34: 3,016,116
3,016,993
3,017,969
3,017,970
3,017,971
3,018,859
3,018,860
3,019,862
3,019,863
3,019,864
3,019,865
3,020,986
3,022,869
3,023,859
3,023,860
3,025,933
3,025,934
3,025,935
3,026,977
3,027,983
3,028,937
3,029,910
3,029,911
3,031,042
3,031,043
3,031,044
3,031,045
3,031,046
3,032,150
3,032,151
3,033,330
3,033,331
3,034,608
3,034,609
3,035,669
3,036,670
3,036,671
3,036,672
3,037,589
3,037,590
3,037,591
3,037,592
3,037,593
3,038,568
3,039,569
3,039,570
3,040,847
3,040,848
3,042,156
3,042,157
3,043,407
3,043,408
3,043,409
3,044,583
3,045,784
3,048,244
3,049,195
3,049,196
3,049,197
3,049,198
3,049,199
3,049,200
3,052,330
3,053,353
3,053,354
3,054,482
3,054,483
3,055,460
3,055,461
3,057,444
3,058,551
3,058,552
3,059,733
3,059,734
3,061,054
3,062,337
34: 3,062,338
3,062,339
3,063,520
3,063,521
3,063,522
3,064,771
3,064,772
3,066,770
3,066,771
3,066,772
3,067,843
3,068,967
3,070,195
3,070,196
35: 3,033,332
3,039,571
3,043,410
36: 3,015,375
3,016,994
3,016,995
3,017,972
3,018,861
3,019,866
3,020,987
3,021,927
3,022,870
3,022,871
3,022,872
3,023,861
3,023,862
3,024,878
3,024,879
3,025,936
3,028,938
3,029,912
3,031,047
3,031,048
3,032,152
3,034,610
3,034,611
3,034,612
3,034,613
3,034,614
3,035,670
3,036,673
3,039,572
3,042,158
3,042,159
3,043,411
3,044,584
3,045,785
3,047,108
3,047,109
3,047,110
3,048,245
3,049,201
3,050,160
3,051,279
3,052,331
3,053,355
3,053,356
3,053,357
3,053,358
3,054,484
3,054,485
3,055,462
3,055,463
3,055,464
3,058,553
3,059,735
3,059,736
3,059,737
3,061,055
3,064,773
3,066,773
3,068,968
3,068,969
36.5: 3,036,674
3,036,675
3,055,465
3,057,445
3,063,198
37: 3,018,862
3,023,863
3,027,984
3,029,913
3,029,914
3,032,153
3,036,676
3,040,849
3,044,585
3,045,786
3,054,486
3,055,466
3,059,738
3,062,340
3,062,341
3,063,523
3,067,844
38: 3,050,161
3,066,774
43: 3,021,928
3,035,671
43: 3,052,332
46: 3,019,867
3,019,868
3,025,937
3,042,160
3,049,202
3,051,280
3,056,475
3,061,056
3,068,970
3,070,197
47: 3,039,573
3,051,281
49: 3,038,569
54: 3,055,467
62: 3,040,850
3,049,203
3,068,971
64: 3,016,996
3,024,880
3,024,881
69: 3,023,864
75: 3,055,468
3,067,845
76: 3,038,570
78: 3,031,049
3,045,787
82: 3,016,997
3,024,882
3,039,574
3,044,586
3,050,162
3,070,198
83: 3,039,575
84: 3,057,446
85: 3,016,998
3,016,999
3,021,929
3,035,672
4: 3,037,594
3,049,204
3,053,359
3,055,469
3,065,831
86: 3,047,111
3,056,476
87: 3,047,112
3,062,342
88: 3,017,973
3,020,988
3,023,865
3,023,866
3,034,615
3,034,616
3,037,595
3,037,596
3,038,571
3,038,572
3,038,573
3,044,587
3,059,739
3,063,524
3,066,775
90: 3,022,873
3,042,161
3,045,788
91: 3,016,117
3,067,846
92: 3,017,000
3,056,477

Class 190

41: 3,020,989
3,021,930
3,023,867
3,035,673
3,052,333
3,068,972
43: 3,019,869
44: 3,061,057
49: 3,029,915
3,058,554
57: 3,023,868
3,034,617

Class 191

2: 3,038,970
12: 3,020,362
3,024,325
3,042,760
12.2: 3,032,616
3,040,139
12.4: 3,056,863
22: 3,037,095
23: 3,028,455
33: 3,031,540
45: 3,047,681
59.1: 3,042,761
3,060,283
65: 3,068,330

Class 192

.02: 3,040,851
3,062,343
.052: 3,064,774
.075: 3,063,525
3,066,776
.094: 3,039,576
.096: 3,023,869
3,035,676
3,068,973
.098: 3,027,987
3,064,775
2: 3,025,938
3: 3,023,870
3,028,978
3,028,939
3,029,916
3,031,050
3,031,051
3,037,597
3,043,412
3,044,588
3,058,555
3,062,344
3,063,526
3,063,527
3.2: 3,033,334
3,033,335
3,040,852
3,059,740
3,068,974
3.5: 3,017,001
3,024,883
3,044,589
3,045,789
3,047,113
3,050,163
3,061,058
4: 3,017,974
3,020,990
3,022,874
3,033,333
3,036,677
3,038,574
3,042,162
3,050,164
3,052,334
3,057,847
6: 3,034,618
3,070,199
7: 3,034,619
8: 3,017,975
3,034,620
3,051,282
3,068,975
11: 3,056,478
12: 3,034,620
3,037,741
13: 3,050,165
3,056,479
3,063,528
3,068,976
16: 3,027,985
3,032,154
3,047,114
3,056,480
17: 3,054,487
18: 3,016,118
3,019,870
3,061,059
3,068,977
3,070,200
21.5: 3,055,470
24: 3,037,598
26: 3,044,590
3,044,591
3,062,345
27: 3,034,621
30.5: 3,053,360
3,070,201
33: 3,048,246
38: 3,045,790
3,066,777
41: 3,019,871
3,032,155
3,033,336
3,061,060
43: 3,050,166
43.1: 3,044,591
43.2: 3,061,061
44: 3,019,872
3,054,488
45: 3,017,002
3,031,052
3,031,053
3,040,853
3,054,489
3,055,471
3,055,472
3,058,556
3,064,776
3,064,777
3,068,978

45.1: 3,019,873
3,022,875
3,034,622
3,036,678
3,037,600
3,040,854
3,049,205
3,049,206
3,066,778
3,066,779
46: 3,017,976
48: 3,017,977
3,018,863
3,019,874
3,021,931
3,053,361
3,059,742
3,062,346
3,067,848
50: 3,040,855
53: 3,020,991
3,024,885
3,035,674
3,048,247
3,057,447
3,059,743
3,062,529
55: 3,053,362
56: Re.25,274
3,023,871
3,032,156
3,034,623
3,035,675
58: 3,019,875
3,042,163
3,049,207
3,053,363
3,055,473
3,058,557
3,059,744
3,059,745
3,066,780
61: 3,020,992
3,050,167
3,051,283
3,064,778
67: 3,044,592
3,058,558
68: 3,018,119
3,017,003
69: 3,061,062
3,063,530
81: Re.25,229
3,034,624
3,040,856
82: 3,055,474
84: Re.25,299
3,019,876
3,022,876
3,023,872
3,036,679
3,036,680
3,037,601
3,040,857
3,042,164
3,044,593
3,044,594
3,052,335
3,053,364
3,053,365
3,054,490
3,055,475
3,066,781
85: 3,021,932
3,027,986
3,036,681
3,038,575
3,042,165
3,042,166
3,047,115
3,048,248
3,053,366
3,064,779
3,065,832
3,070,202
86: 3,042,167
3,064,780
87: 3,032,157
3,037,602
3,044,595
3,054,491
3,059,746
3,061,781
88: 3,022,877
3,044,596
89: 3,016,120
90: 3,019,877
91: 3,016,121
3,058,559
98: 3,032,158
3,036,682
3,043,413
104: 3,016,122
3,026,979

104: 3,055,476
3,058,560
105: 3,017,004
3,017,005
3,024,886
3,025,939
3,026,980
3,039,577
3,048,249
3,051,284
3,058,561
3,065,833
106: 3,058,562
107: 3,034,625
3,039,573
3,042,168
3,048,250
3,064,782
110: 3,068,979
3,068,980
113: 3,017,006
3,018,864
3,042,169
3,062,347
3,062,348
3,063,531
3,063,532
114: 3,032,159
3,043,414
116.5: 3,018,865
3,038,563
131: 3,047,116
135: 3,049,208
139: 3,047,117
142: 3,031,054
3,036,683
3,042,170
3,066,782
143: 3,039,579
3,042,171
3,056,481
144: 3,019,878
3,049,209
148: 3,051,285
150: 3,018,866
3,038,576

Class 193

4: 3,055,477
9: 3,021,933
10: 3,053,367
3,068,981
16: 3,019,879
17: 3,061,063
25: 3,018,867
3,070,203
30: 3,068,982
31: 3,033,337
32: 3,034,626
33: 3,039,580
35: 3,016,123
3,026,981
3,045,791
3,053,368
3,058,564
3,059,747
3,063,533
3,068,983
36: 3,045,792
3,057,448
3,058,565
37: 3,037,603
38: 3,020,993
3,032,160
3,039,581
3,063,534
3,064,783
3,064,784
39: 3,053,369
40: 3,017,007
3,029,917
43: 3,029,918
3,044,597
3,047,118

Class 194

1: 3,054,492
2: 3,023,873
4: 3,015,376
3,039,582
3,039,583
3,042,172
3,064,785
3,064,786
6: 3,040,858
3,045,793
9: 3,018,868
3,026,982
3,032,161
3,032,162
3,034,627
3,036,684
3,037,604
9: 3,048,251
10: 3,018,869
3,020,994
3,023,874
3,031,055
3,050,168
3,051,286
3,068,984
11: 3,064,787
15: 3,042,173
3,063,535
17: 3,044,598
19: 3,028,940
3,050,169
55: 3,064,788
61: 3,064,789
72: 3,026,983
3,066,783
78: 3,028,941
80: 3,033,338
87: 3,047,119
92: 3,028,875
3,037,605
93: 3,062,349
94: 3,053,370
3,054,493
99: 3,059,748
100: 3,059,749

Class 195

2: 3,020,204
3,020,205
3: 3,032,472
3,058,887
3,059,325
4: 3,053,739
8: 3,041,246
11: 3,017,330
3,039,935
3,039,936
3,060,099
17: 3,029,192
28: 3,025,221
3,057,784
3,067,107
29: 3,022,223
3,022,224
3,036,958
3,041,247
3,056,729
3,058,838
30: 3,023,147
31: 3,020,206
3,020,207
3,033,758
3,042,584
3,044,940
3,050,444
3,067,108
35: 3,063,909
36: 3,021,261
3,024,168
3,024,169
3,030,276
3,032,473
3,043,748
3,044,941
3,047,467
3,052,609
3,063,910
3,069,326
3,070,511
37: 3,022,225
39: 3,030,277
47: 3,028,309
3,028,310
3,032,474
3,036,959
3,042,585
3,043,749
3,044,942
3,061,521
3,066,078
48: 3,025,222
3,041,248
51: 3,016,335
3,019,170
3,022,226
3,030,278
3,031,379
3,032,475
3,033,759
3,037,912
3,037,913
3,037,914
3,037,915
3,039,937
3,047,468
3,047,469
3,047,470
3,054,725
3,055,806
3,056,730
51: 3,056,731
3,058,889
3,060,100
3,060,101
3,065,146
3,070,512
3,070,513
54: 3,068,154
62: 3,022,227
3,026,251
3,063,911
63: 3,016,336
3,050,445
3,051,627
3,063,912
3,069,327
65: 3,063,913
66: 3,016,337
3,031,380
3,036,960
3,042,586
3,047,471
3,058,890
3,060,102
3,060,103
3,063,914
3,066,079
68: 3,019,171
3,042,587
3,046,200
71: 3,030,279
74: 3,041,249
80: 3,019,172
3,019,173
3,022,228
3,023,148
3,028,311
3,033,760
3,037,916
3,037,917
3,038,839
3,042,588
3,049,475
3,049,476
3,050,446
3,053,740
3,055,807
3,061,522
3,065,147
3,067,109
3,070,514
81: 3,038,840
3,060,104
3,069,328
3,069,329
82: 3,068,155
94: 3,032,476
95: 3,028,312
3,057,785
96: 3,021,262
3,031,381
3,043,750
3,066,080
98: 3,034,968
100: 3,046,201
101: 3,031,382
103.5: 3,018,224
3,028,313
3,033,761
3,043,751
3,061,523
3,064,915
3,063,916
3,065,148
3,065,149
3,066,081
3,069,330
109: 3,041,250
114: 3,018,225
3,062,723
127: 3,020,208
3,027,305
135: 3,033,762
139: 3,038,841
3,039,938
3,055,808
3,065,150
141: 3,015,612
3,028,314
3,062,724
142: 3,022,229

Class 196

14.5: 3,028,315

Class 197

1: 3,020,995
3,037,606
3,045,794
1.5: 3,032,163
1.6: 3,052,336
2: 3,042,174
3,058,566
3,065,835
5: 3,029,919
6.1: 3,032,164
6.4: 3,054,494
6.6: 3,029,920
3,059,750
6.7: 3,042,175
7: 3,017,008
3,036,688
3,038,583
3,047,122
3,053,372
16: 3,033,340
3,048,256
3,049,213
3,052,337
19: 3,022,881
3,026,945
3,036,689
3,037,607
3,039,584
3,049,214
3,061,664
3,062,352
3,062,353
3,064,791
3,067,849
3,068,987
3,070,205
20: 3,025,943
3,027,989
3,033,341
3,034,631
3,036,690
3,036,691
3,037,608
3,039,585
3,039,586
3,043,415
3,048,257
3,050,173
3,051,288
3,051,289
3,053,373
3,058,567
3,061,665
3,062,354
3,065,839
3,066,784
21: 3,017,983
3,024,887
3,031,058
3,036,692
3,040,861
3,057,451
22: 3,039,587
24: 3,018,872
3,026,988
3,029,922
3,040,862
3,040,863
3,045,801
3,052,338
3,053,374
3,053,375
3,054,495
3,057,850
3,067,851
3,070,206
25: 3,026,989
3,033,342
3,036,693
3,036,694
3,040,864
3,040,865
3,044,599
3,057,452
3,058,568
26: 3,039,588
3,058,569
3,059,752
3,065,840
3,065,478
27: 3,066,785
28: 3,038,584
29: 3,017,009
3,017,984
3,024,888
3,029,923
3,051,290
30: 3,025,944
3,027,990
3,033,343
3,040,866
3,049,215
3,050,174
3,051,291
3,056,482
3,061,666
3,061,667
3,065,841
180: 3,063,541
183: 3,048,255
189: 3,049,212
190: 3,035,680

Class 198

1: 3,017,982
3,053,371
7: 3,017,008
3,036,688
3,038,583
3,047,122
3,053,372
16: 3,033,340
3,048,256
3,049,213
3,052,337
19: 3,022,881
3,026,945
3,036,689
3,037,607
3,039,584
3,049,214
3,061,664
3,062,352
3,062,353
3,064,791
3,067,849
3,068,987
3,070,205
20: 3,025,943
3,027,989
3,033,341
3,034,631
3,036,690
3,036,691
3,037,608
3,039,585
3,039,586
3,043,415
3,048,257
3,050,173
3,051,288
3,051,289
3,053,373
3,058,567
3,061,665
3,062,354
3,065,839
3,066,784
21: 3,017,983
3,024,887
3,031,058
3,036,692
3,040,861
3,057,451
22: 3,039,587
24: 3,018,872
3,026,988
3,029,922
3,040,862
3,040,863
3,045,801
3,052,338
3,053,374
3,053,375
3,054,495
3,057,850
3,067,851
3,070,206
25: 3,026,989
3,033,342
3,036,693
3,036,694
3,040,864
3,040,865
3,044,599
3,057,452
3,058,568
26: 3,039,588
3,058,569
3,059,752
3,065,840
3,065,478
27: 3,066,785
28: 3,038,584
29: 3,017,009
3,017,984
3,024,888
3,029,923
3,051,290
30: 3,025,944
3,027,990
3,033,343
3,040,866
3,049,215
3,050,174
3,051,291
3,056,482
3,061,666
3,061,667
3,065,841
30: 3,066,786
3,066,787
31: 3,017,010
3,026,990
3,039,589
3,039,590
3,040,867
3,051,292
3,058,570
3,061,668
32: Re.25,140
3,028,946
3,038,585
3,064,792
3,070,207
3,070,208
33: 3,015,378
3,016,124
3,017,011
3,021,938
3,024,889
3,031,059
3,031,060
3,034,632
3,034,633
3,035,661
3,038,586
3,039,591
3,040,868
3,040,869
3,042,181
3,042,182
3,043,416
3,044,600
3,045,802
3,047,123
3,047,124
3,049,216
3,053,376
3,054,496
3,057,453
3,061,669
3,068,990
3,068,991
3,070,209
3,070,210
34: 3,019,882
3,020,997
3,023,877
3,024,890
3,026,991
3,031,061
3,037,609
3,039,592
3,050,175
3,051,293
3,055,479
3,056,483
3,061,672
3,066,788
35: 3,039,593
3,067,853
3,070,211
3,070,212
37: 3,028,947
3,052,339
3,062,355
3,063,544
38: 3,016,125
3,018,873
3,031,883
3,023,878
3,033,344
3,034,634
3,053,377
3,055,480
3,059,753
3,062,356
3,070,213
39: 3,019,884
3,070,214
40: 3,037,610
3,045,803
3,055,481
41: 3,023,879
3,052,340
45: 3,034,635
3,057,454
48: 3,055,482
52: 3,054,497
3,061,073
3,061,074
56: 3,055,483
3,058,571
57: 3,026,992
57: 3,047,125
3,062,357
58: 3,067,854
59: 3,029,924
62: 3,042,183
63: 3,031,062
64: 3,029,925
3,031,063
3,035,682
3,037,611
3,045,804
3,050,176
3,050,177
65: 3,025,945
3,031,294
66: 3,031,064
68: 3,047,126
69: 3,018,874
75: 3,033,345
3,048,258
76: 3,027,991
3,033,346
3,033,347
3,040,870
3,045,805
3,063,545
3,067,855
79: 3,040,871
82: 3,033,348
85: 3,023,880
3,033,349
3,043,417
3,045,806
95: 3,017,012
98: 3,059,754
102: 3,017,013
3,067,856
3,070,215
104: 3,022,882
106: 3,031,065
109: 3,052,341
112: 3,067,857
115: 3,051,295
120.5: 3,037,612
121: 3,023,881
122: 3,052,342
126: 3,041,975
3,067,858
127: 3,019,885
3,026,993
3,026,994
3,033,350
3,035,683
3,038,587
3,040,872
3,056,484
3,068,992
128: 3,029,926
3,032,169
3,039,594
3,039,595
3,043,418
3,057,455
3,059,755
3,065,842
129: 3,055,484
3,057,456
131: 3,017,014
3,021,939
3,042,184
3,044,601
3,070,216
134: 3,019,886
3,029,927
3,051,296
3,058,572
135: 3,056,485
137: 3,032,170
3,055,485
139: 3,039,596
3,053,378
140: 3,016,126
3,031,066
145: 3,015,379
3,044,602
3,055,486
151: 3,019,887
152: 3,040,873
153: 3,045,807
154: 3,023,891
3,062,358
155: 3,054,498
3,067,859
158: 3,034,636
159: 3,032,171
160: 3,034,637
3,042,185
3,047,127
3,048,259
3,062,359
162: 3,035,684
3,059,756
164: 3,052,343
165: 3,051,297

Class 198—Con.
170: 3,017,985
174: 3,047,128
3,047,129
175: 3,064,795
176: 3,015,380
3,068,993
177: 3,032,172
3,045,808
3,049,217
3,067,860
178: 3,033,351
179: 3,057,457
3,067,861
181: 3,019,888
3,040,874
182: 3,044,603
184: 3,016,127
3,023,882
3,061,076
3,062,360
185: 3,042,186
188: 3,049,218
189: 3,036,695
3,047,130
3,068,994
192: 3,029,928
3,033,352
3,038,588
3,042,187
3,043,419
3,047,131
3,049,219
3,049,220
3,055,487
3,059,757
3,062,361
3,064,796
3,068,995
3,070,217
3,070,218
3,070,219
3,070,220
193: 3,044,604
195: 3,034,638
3,045,809
3,061,077
198: 3,055,488
201: 3,059,758
202: 3,024,892
3,035,685
3,058,573
3,058,574
3,058,575
203: 3,015,381
3,032,173
3,033,353
3,049,221
3,050,178
3,051,298
3,056,486
204: 3,024,893
3,065,843
206: 3,015,382
208: 3,018,575
3,027,993
3,039,597
3,051,299
3,054,499
3,055,489
3,064,797
3,066,789
3,067,862
209: 3,031,067
3,035,686
3,062,362
210: 3,020,998
3,049,222
3,067,863
211: 3,029,929
3,055,490
213: 3,016,128
3,037,613
3,059,759
3,070,221
214: 3,056,487
218: 3,024,894
3,061,078
220: 3,019,889
3,032,174
3,032,175
3,038,589
3,043,420
3,045,810
3,048,260
3,049,223
3,053,379
3,055,380
3,056,488
3,058,576
3,058,577
3,061,079
3,063,546
220: 3,068,996
221: 3,047,132
224: 3,039,598
3,045,811
3,059,760
3,065,844
230: 3,017,986
3,027,994
3,038,590
3,047,133
232: Re.25,215
3,049,873
3,050,179
3,056,489
3,063,547
233: 3,019,890
3,038,591

Class 199
18: 3,017,015
3,057,458
20: 3,068,997
23: 3,042,188
26: 3,048,261
27: 3,037,614
3,037,615
3,040,876
32: 3,024,895
33: 3,068,998
36: 3,068,999
37: 3,054,500
43: 3,043,421
47: 3,063,548
50: 3,028,948
52: 3,051,300
56: 3,020,999
3,069,000
61: 3,021,940
3,042,189
63: 3,035,687

Class 200
5: 3,051,799
3,064,091
6: 3,015,705
3,030,459
3,033,946
8: 3,052,763
11: 3,019,308
3,022,388
3,025,361
3,030,460
3,030,461
3,031,541
3,048,669
16: 3,018,338
3,029,320
3,047,682
3,053,945
3,060,284
3,060,285
3,061,692
19: 3,037,096
3,050,597
3,060,286
23: 3,029,321
24: 3,022,389
3,035,128
3,043,922
3,045,075
3,048,670
26: 3,036,165
3,047,683
28: 3,052,764
29: 3,062,928
30: 3,024,326
3,025,362
3,025,363
3,025,364
3,027,433
3,033,947
3,048,671
3,055,992
31: 3,036,166
3,062,929
3,062,930
32: 3,017,468
33: 3,020,363
3,025,365
3,037,097
3,055,993
34: 3,031,543
3,045,076
3,069,514
35: 3,053,946
3,063,313
36: 3,028,456
37: 3,018,339
3,061,693
38: 3,018,340
3,021,399
3,022,390
38: 3,023,282
3,025,366
3,025,367
3,026,384
3,028,457
3,028,458
3,030,462
3,032,617
3,032,618
3,033,948
3,033,949
3,035,129
3,036,167
3,038,040
3,038,041
3,042,762
3,042,763
3,043,923
3,047,684
3,052,765
3,052,766
3,053,947
3,055,994
3,057,973
3,060,287
3,060,288
3,060,289
3,062,931
3,064,092
3,065,314
3,067,298
3,068,331
3,069,515
39: 3,033,950
42: 3,046,364
3,059,069
44: 3,022,391
3,025,385
3,055,995
46: 3,020,364
3,025,368
3,045,077
3,049,598
3,052,767
3,056,864
3,057,974
3,059,070
3,067,299
3,070,673
47: 3,035,130
3,042,764
3,059,071
3,065,315
48: 3,036,168
3,041,419
3,043,924
3,046,365
3,047,685
3,047,686
3,067,300
3,070,674
50: 3,016,431
3,016,432
3,018,341
3,019,309
3,021,400
3,028,459
3,030,463
3,032,619
3,033,951
3,033,952
3,040,140
3,041,420
3,048,672
3,052,768
3,054,866
3,054,867
3,055,996
3,059,072
51: 3,027,434
3,028,460
3,038,971
3,043,925
3,047,687
3,048,673
3,051,800
3,052,769
3,057,975
51.02: 3,045,080
51.09: 3,020,365
3,038,972
3,052,770
3,059,073
51.1: 3,029,322
3,036,169
3,045,078
3,045,079
51.16: 3,018,342
3,020,366
51.17: 3,049,599
52: 3,017,469
3,046,366
3,052,771
3,054,868
52: 3,054,869
56: 3,056,865
61.08: 3,038,042
3,052,772
61.12: 3,031,544
61.18: 3,021,401
3,041,421
3,043,926
61.21: 3,018,343
3,019,310
61.23: 3,055,998
61.27: 3,019,311
3,037,098
61.29: 3,024,327
61.3: 3,055,997
61.41: 3,023,283
3,035,131
3,047,688
3,052,773
61.42: 3,053,948
61.44: 3,018,344
61.45: 3,022,393
3,031,545
3,038,973
3,047,689
3,054,870
3,057,976
3,062,931
61.46: 3,021,402
3,025,369
3,030,464
3,043,927
3,050,598
61.47: 3,035,132
61.49: 3,053,949
61.5: 3,022,392
3,066,202
61.53: 3,020,367
3,023,284
3,045,081
61.6: 3,036,170
3,042,765
61.62: 3,031,546
61.63: 3,040,141
61.7: 3,048,674
61.78: 3,046,367
61.86: 3,048,675
3,051,801
61.89: 3,035,133
62: 3,042,766
64: 3,017,470
67: 3,015,706
3,016,433
3,018,345
3,019,312
3,030,465
3,030,466
3,031,547
3,032,620
3,032,621
3,032,622
3,032,623
3,033,953
3,035,134
3,036,171
3,037,099
3,038,043
3,043,928
3,049,600
3,050,599
3,051,802
3,051,803
3,052,774
3,055,999
3,056,000
3,056,001
3,056,002
3,056,866
3,061,694
3,062,932
3,067,301
3,069,516
68: 3,022,394
3,026,386
3,045,082
70: 3,068,332
71: 3,032,624
74: 3,045,083
76: 3,017,471
78: 3,053,950
80: 3,030,461
3,028,462
3,033,954
3,052,775
81: 3,031,548
3,042,767
3,046,368
3,056,867
81.4: 3,030,467
3,050,600
81.5: 3,067,302
81.6: 3,029,323
81.9: 3,028,463
81.9: 3,042,768
3,052,776
3,056,003
3,057,977
3,062,933
3,065,316
3,070,676
82: 3,021,403
3,026,387
3,036,172
3,062,290
3,061,695
3,062,934
3,064,093
83: 3,017,472
3,022,395
3,022,396
3,027,435
3,029,324
3,032,626
3,036,173
3,037,100
3,037,101
3,038,044
3,042,769
3,042,770
3,042,771
3,043,929
3,043,930
3,046,369
3,049,601
3,049,602
3,049,603
3,052,777
3,054,871
3,056,004
3,064,094
3,067,303
84: 3,018,346
3,022,397
3,038,045
3,038,974
3,042,772
3,045,084
3,064,095
86: 3,056,005
86.5: 3,020,368
87: 3,015,707
3,015,708
3,016,434
3,017,473
3,018,347
3,019,313
3,022,398
3,022,399
3,023,285
3,023,286
3,024,328
3,024,329
3,025,370
3,025,371
3,025,372
3,027,436
3,030,468
3,030,469
3,031,549
3,031,550
3,032,627
3,032,628
3,035,135
3,036,174
3,038,975
3,038,976
3,040,142
3,043,931
3,046,370
3,047,690
3,048,676
3,048,677
3,051,804
3,051,805
3,052,778
3,056,868
3,056,869
3,059,074
3,059,075
3,060,291
3,061,696
3,062,935
3,065,317
3,065,318
3,066,203
3,066,204
3,067,304
3,068,333
3,070,677
88: 3,019,314
3,030,470
3,032,629
3,037,102
3,040,143
3,040,144
3,046,371
3,057,978
88: 3,061,697
3,061,698
3,069,517
90: 3,029,325
3,029,326
3,043,932
3,051,806
3,053,951
3,064,096
3,064,097
91: 3,033,955
3,061,699
92: 3,026,388
3,029,327
93: 3,017,474
3,022,400
3,033,956
3,047,691
3,048,678
3,048,679
3,067,305
94: 3,016,435
3,024,330
97: 3,019,315
3,043,933
3,047,692
3,052,779
3,056,006
98: 3,036,175
3,040,145
3,040,146
3,047,693
3,059,076
3,069,518
102: 3,053,952
103: 3,017,475
3,026,389
3,053,953
3,057,980
104: 3,017,476
3,018,348
3,020,369
3,026,390
3,033,957
3,035,136
3,035,137
3,036,176
3,041,422
3,041,423
3,042,773
3,042,774
3,042,775
3,054,872
3,056,007
3,060,292
105: 3,019,316
3,064,098
106: 3,035,138
3,047,694
3,053,954
3,064,099
3,065,319
3,069,519
107: 3,056,008
108: 3,019,317
3,030,471
110: 3,036,177
111: 3,035,139
112: 3,022,401
3,027,437
3,037,103
3,040,147
3,054,873
3,059,077
113: 3,023,287
3,025,373
3,033,958
3,033,959
3,041,424
3,041,425
3,052,780
3,061,699
3,064,100
3,066,205
114: 3,015,709
3,018,349
3,026,391
3,032,630
3,032,631
3,038,046
3,041,426
3,043,934
3,048,680
3,054,874
3,056,870
3,062,936
115.5: 3,018,350
3,027,438
3,046,372
3,057,981
116: 3,018,351
3,021,404
3,022,402
3,023,288
3,030,472
116: 3,031,542
3,036,178
3,038,047
3,042,776
3,064,101
118: 3,026,392
3,036,179
120: 3,020,370
3,029,328
3,038,048
3,061,700
3,069,520
121: 3,041,427
3,046,373
3,047,695
122: 3,017,477
3,019,318
3,019,319
3,020,371
3,022,403
3,031,551
3,033,960
3,038,050
3,038,051
3,054,875
3,056,871
3,059,078
3,062,937
3,064,102
3,064,103
3,070,678
123: 3,030,473
3,046,374
3,047,777
131: 3,020,372
3,023,289
3,041,428
133: 3,020,373
3,030,474
3,038,977
3,052,781
3,056,872
3,060,293
3,070,679
136.3: 3,043,935
3,043,936
3,050,601
3,061,701
136.5: 3,019,320
137: 3,022,404
3,025,374
3,029,329
3,045,085
3,051,807
3,059,079
138: 3,017,478
3,021,405
3,021,406
3,022,405
3,026,393
3,033,960
3,038,978
3,046,375
3,051,808
3,051,809
3,057,982
3,059,080
3,062,938
3,066,206
3,067,306
140: 3,030,475
3,038,979
3,040,148
3,047,696
3,065,320
3,065,323
141: 3,028,464
142: 3,043,937
144: 3,016,436
3,017,479
3,021,407
3,021,408
3,023,290
3,025,375
3,025,376
3,026,394
3,031,552
3,033,961
3,035,140
3,036,180
3,038,980
3,043,938
3,043,939
3,048,681
3,048,682
3,056,009
3,065,321
145: 3,016,437
3,033,962
3,057,983
146: 3,017,480
3,020,374
3,026,395
3,030,481

146: 3,038,052
3,052,782
3,061,702
3,070,680
147: 3,016,438
3,017,481
5,024,331
3,033,963
3,042,778
3,050,602
3,053,955
3,054,876
3,064,104
3,070,681
148: 3,017,482
3,018,352
3,023,291
3,027,439
3,032,632
3,040,149
3,043,940
3,045,086
3,046,376
3,047,697
3,052,783
3,054,877
3,060,294
3,065,322
3,069,521
149: 3,021,409
3,059,081
150: 3,021,410
3,021,411
3,028,465
3,028,466
3,030,476
3,045,087
3,048,683
3,056,873
3,066,207
3,067,307
152: 3,019,221
3,030,477
3,032,633
3,043,941
3,045,088
3,054,878
3,057,984
153: 3,019,322
3,024,332
3,030,478
3,036,181
3,038,981
3,046,377
3,047,698
3,050,603
3,051,810
3,060,295
3,064,105
3,066,208
155: 3,019,323
3,025,377
3,050,604
156: 3,041,429
158: 3,052,784
3,056,874
159: 3,016,439
3,024,333
3,038,182
3,036,183
3,038,053
3,047,699
3,054,879
161: 3,022,406
163: 3,036,184
165: 3,056,875
166: 3,016,440
3,018,353
3,018,354
3,020,375
3,023,292
3,024,334
3,024,335
3,027,440
3,033,964
3,033,965
3,035,141
3,040,150
3,045,089
3,045,090
3,048,684
3,049,604
3,053,956
3,053,957
3,068,334
3,068,335
167: 3,027,441
3,040,151
3,052,785
3,070,682
168: 3,024,336
3,024,337

168: 3,028,467
3,030,479
3,030,480
3,038,054
3,041,430
3,045,091
3,045,092
3,048,685
3,050,605
3,053,958
3,054,880
3,056,010
3,060,296
3,062,939
3,064,106
3,066,396
170: 3,026,396
3,041,431
3,052,786
3,064,107
172: 3,024,338
3,024,339
3,033,966
3,036,185
3,037,104
3,040,152
3,041,432
3,041,433
3,042,779
3,047,700

Class 202

6: 3,039,939
9: 3,043,752
3,047,472
3,061,524
12: 3,056,732
14: 3,020,209
3,025,223
25: 3,070,515
26: 3,018,226
3,018,227
3,020,210
3,027,306
3,043,753
3,051,628
3,051,629
3,058,891
27: 3,032,477
3,047,473
31: 3,026,252
33: 3,035,989
36: 3,070,516
39: 3,050,447
39.5: 3,018,228
3,026,253
3,033,763
3,034,969
3,039,940
3,044,943
3,048,527
3,050,448
3,055,809
3,069,331
3,070,517
3,070,518
40: 3,018,229
3,018,230
3,021,263
3,032,478
3,032,479
3,039,941
42: 3,024,170
3,026,254
3,031,383
3,031,384
3,052,610
3,070,519
46: 3,054,726
51: 3,054,727
52: 3,021,264
53: Re.25,232
3,057,786
57: 3,028,316
3,032,480
3,058,892
59: 3,041,251
61: 3,032,481
64: 3,020,211
66: 3,024,171
71: 3,017,331
3,051,630
3,055,810
74: 3,032,482
118: 3,020,212
139: 3,042,589
145: 3,047,474
144: 3,042,590

144: 3,054,728
152: 3,050,449
158: 3,018,231
160: 3,020,213
3,027,307
3,050,450
174: 3,021,265
181: 3,020,214
187: 3,015,613
197: 3,020,215
205: 3,060,106
227: 3,033,764
236: 3,054,729
3,060,107
248: 3,015,614
3,032,483
268: 3,054,730

Class 204

1: 3,025,224
3,026,317
3,030,280
3,031,385
3,041,252
3,051,631
3,065,151
3,066,082
3,069,332
1.5: 3,024,172
3,029,193
3,052,611
2: 3,016,338
3,024,173
9: 3,022,230
3,061,525
3,068,156
10: 3,041,253
11: 3,046,202
12: 3,023,149
3,046,203
15: 3,017,332
3,032,484
3,033,765
3,034,970
3,035,990
3,042,591
3,054,731
3,061,526
3,061,527
3,070,520
16: 3,046,204
3,051,632
18: 3,057,787
3,057,788
3,065,152
23: 3,020,216
24: 3,051,633
25: 3,022,231
26: 3,065,153
29: 3,043,754
32: 3,063,917
3,065,154
33: 3,026,255
36: 3,022,232
3,027,308
37: 3,034,971
3,046,205
3,054,732
3,062,725
3,063,918
38: 3,016,339
3,039,942
3,039,943
39: 3,024,174
3,024,175
3,024,176
3,024,177
40: 3,062,726
43: 3,020,217
3,027,309
3,030,281
3,031,386
3,032,485
3,032,486
3,047,475
3,053,741
3,067,110
3,070,521
44: 3,018,232
3,021,266
3,023,150
3,056,733
45: 3,061,528
46: 3,057,789
49: 3,017,333
3,023,151
3,041,254
3,041,255
3,041,256
3,054,733

51: 3,021,267
3,035,991
3,041,257
3,042,592
3,069,333
52: 3,023,152
3,030,282
3,030,283
3,037,918
3,051,634
3,054,734
54: 3,031,400
55: 3,017,334
3,020,218
56: 3,032,487
58: 3,020,219
3,031,387
59: 3,028,318
3,028,319
3,028,320
3,028,321
3,033,766
3,067,111
3,069,334
60: 3,022,233
3,030,284
61: 3,067,112
62: 3,017,335
3,017,336
3,028,322
3,028,323
3,032,488
3,033,767
3,037,919
64: 3,018,233
3,019,174
3,021,268
3,030,285
3,036,961
3,047,476
3,047,477
3,049,478
3,054,735
3,062,727
67: 3,016,340
3,020,220
3,024,178
3,028,324
3,029,194
3,033,768
3,034,972
3,043,755
3,063,919
68: 3,020,221
3,051,635
3,066,083
69: 3,043,756
72: 3,028,325
73: 3,032,489
75: 3,017,337
83: 3,018,234
3,065,155
85: 3,038,842
91: 3,063,920
92: 3,051,636
95: 3,043,757
96: 3,069,335
98: 3,017,338
3,051,637
99: 3,068,157
105: 3,034,973
108: 3,054,736
110: 3,063,921
112: 3,067,113
128: 3,052,612
3,055,811
130: 3,065,156
131: 3,058,894
140.5: 3,033,769
3,051,737
3,055,812
3,068,158
141: 3,030,286
3,041,259
3,042,593
3,048,528
3,070,522
143: 3,023,153
3,024,179
3,036,962
3,041,258
3,046,206
3,051,638
3,056,734
3,058,895
3,061,529
3,067,114
144: 3,066,084
145: 3,025,225
3,027,310
3,043,758
147: 3,022,234

147: 3,049,479
3,055,813
3,070,523
3,070,524
148: 3,029,195
3,037,920
3,047,478
3,069,336
149: 3,035,992
151: 3,030,287
154: 3,018,235
3,018,236
3,018,237
3,021,269
3,025,257
3,027,311
3,027,312
3,038,843
3,043,759
3,046,207
3,046,208
3,048,529
3,053,742
3,055,814
3,055,815
3,056,735
3,057,790
3,057,791
3,058,896
3,061,530
3,061,531
3,062,729
3,065,157
3,065,158
3,066,085
3,067,115
154.2: 3,015,615
3,016,341
3,018,238
3,020,222
3,022,235
3,022,236
3,025,226
3,028,326
3,031,388
3,031,389
3,031,390
3,032,490
3,036,963
3,036,964
3,037,921
3,037,922
3,039,944
3,041,260
3,041,261
2,042,594
3,042,595
3,044,944
3,047,479
3,047,480
3,049,480
3,049,481
3,050,451
3,052,613
3,053,743
3,054,738
3,055,816
3,058,897
3,058,898
3,060,108
3,062,728
3,063,923
3,065,159
3,067,116
3,067,117
3,068,159
3,068,160
3,068,161
3,069,337
3,069,338
3,069,339
3,070,525
3,070,526
3,070,527
157: 3,041,774
3,055,817
158: 3,030,288
3,031,391
3,032,491
3,034,974
3,042,596
3,046,209
3,046,210
3,048,530
3,053,745
3,054,739
3,054,740
3,055,818
3,058,899
3,065,160
3,065,161
3,066,086

162: 3,022,237
3,043,760
3,047,481
3,047,482
3,048,531
3,050,452
3,050,453
3,055,819
3,067,118
163: 3,019,175
3,024,180
3,063,922
164: 3,033,770
3,060,109
165: 3,017,339
3,057,792
168: 3,021,270
3,030,289
3,067,119
169: 3,030,290
171: 3,051,639
176: 3,062,730
177: 3,020,223
3,033,771
180: Re.25,265
3,025,227
3,029,196
3,038,844
3,042,597
3,046,211
3,051,640
3,062,731
3,063,924
3,069,340
3,070,528
181: 3,020,224
3,027,313
3,037,923
3,049,482
3,067,120
190: 3,066,087
192: 3,021,271
193.2: 3,015,616
3,015,617
3,015,618
3,016,342
3,018,239
3,018,240
3,019,176
3,020,225
3,020,226
3,021,272
3,021,273
3,021,274
3,022,238
3,022,239
3,022,240
3,024,181
3,024,182
3,025,228
3,026,256
3,026,258
3,027,314
3,028,327
3,028,328
3,028,329
3,028,330
3,029,197
3,029,198
3,029,199
3,030,291
3,030,292
3,030,293
3,030,294
3,031,392
3,031,393
3,031,394
3,031,395
3,031,396
3,031,397
3,031,398
3,031,399
3,032,492
3,033,773
3,033,774
3,034,975
3,034,976
3,034,977
3,034,978
3,035,993
3,035,994
3,035,995
3,036,965
3,036,966
3,037,924
3,038,845
3,038,846
3,038,847
3,039,945
3,039,946
3,039,947
3,039,948

193.2: 3,039,949
3,041,262
3,041,263
3,041,264
3,042,598
3,042,599
3,042,600
3,042,601
3,043,761
3,043,762
3,043,763
3,044,945
3,044,946
3,044,947
3,046,212
3,047,483
3,047,484
3,049,484
3,049,485
3,049,486
3,049,487
3,050,454
3,051,641
3,051,642
3,052,614
3,052,615
3,052,616
3,052,617
3,053,745
3,054,741
3,054,742
3,055,820
3,056,736
3,056,737
3,057,793
3,058,900
3,060,110
3,060,111
3,061,532
3,061,533
3,063,925
3,063,926
3,063,927
3,065,162
3,065,988
3,066,089
3,067,121
3,068,162
3,068,163
3,068,164
3,068,341
3,069,342
3,069,343
3,069,344
3,070,529
3,070,530
3,070,531
3,070,532
3,070,533
3,070,534
3,070,535
3,070,536
3,070,537
3,070,538
193.3: 3,035,996
195: 3,022,241
3,032,493
3,038,848
3,043,764
3,047,488
3,051,643
3,058,901
3,070,539
3,070,540
196: 3,019,177
3,022,242
3,022,243
3,033,775
3,038,849
3,043,765
3,046,213
3,056,738
3,061,122
197: 3,024,183
3,037,925
3,037,926
3,048,535
3,054,743
3,060,112
3,066,090
206: 3,038,850
3,060,113
3,063,928
3,066,091
210: 3,046,214

Class 204—Con.
211: 3,061,534
212: 3,062,732
213: 3,038,851
3,058,902
217: 3,017,340
3,043,766
219: 3,046,215
3,068,165
220: 3,042,602
3,062,733
3,065,163
224: 3,038,852
3,053,747
225: 3,036,967
3,052,618
3,060,114
228: 3,042,603
3,063,929
231: 3,067,123
242: 3,017,341
3,023,154
3,030,295
3,039,950
243: 3,052,619
3,053,748
3,061,535
244: 3,042,604
3,063,930
3,063,931
3,067,124
245: 3,037,927
248: 3,035,997
249: 3,026,259
250: 3,061,536
252: 3,057,794
265: 3,038,853
266: 3,022,244
3,030,296
270: 3,055,821
3,062,734
275: 3,061,537
278: 3,033,772
280: 4,016,343
284: 3,019,178
3,035,998
3,041,265
286: 3,037,928
3,069,345
288: 3,037,929
3,041,266
290: 3,050,115
294: 3,025,229
3,046,216
297: 3,032,494
3,033,776
3,035,999
3,039,951
3,042,605
3,043,767
3,053,749
3,056,739
298: 3,039,952
3,056,740
299: 3,047,489
300: 3,024,184
301: 3,043,768
3,068,166
312: 3,021,275
3,049,488
3,057,795
318: 3,024,185
320: 3,023,155

Class 205

3: 3,029,930
7: 3,036,696
8: 3,024,896
13: 3,017,016
3,024,897
19: 3,031,068
20: 3,017,017
3,055,491
3,064,798
21: 3,021,941
24: 3,051,301
26: 3,025,946
29: 3,038,592

Class 206

.4: 3,023,883
3,033,354
.82: 3,052,344
.83: 3,028,949
3,047,144
3,051,308
3,057,459
3,064,805
3,069,001
.84: 3,059,767
1: 3,019,891
3,024,898
1: 3,050,180
3,061,080
3,063,549
3,066,790
3,069,002
1.5: 3,024,899
1.7: 3,023,884
3: 3,066,791
4: 3,016,129
3,025,947
3,025,948
3,025,949
3,026,995
3,052,345
3,054,501
3,054,502
5: 3,025,950
3,036,697
3,037,616
3,038,593
3,050,181
7: 3,016,130
3,024,900
3,026,996
3,032,176
3,035,688
3,037,617
3,038,594
3,039,599
3,051,302
3,056,490
3,057,460
3,057,461
3,057,462
3,063,550
3,065,845
8: 3,036,698
3,058,578
12: 3,058,577
13: 3,048,262
15.1: 3,026,998
3,055,492
15.2: 3,032,177
16: 3,031,069
3,045,812
3,059,761
16.5: 3,036,699
17: 3,018,876
3,063,551
3,067,864
18: 3,061,081
19: 3,024,901
3,050,182
19.5: 3,022,883
3,026,999
3,045,813
3,055,493
3,062,363
20: 3,042,190
29: 3,038,595
33: 3,058,580
36: 3,022,884
37: 3,042,191
3,047,134
3,057,463
3,057,464
38: 3,018,877
3,027,995
3,052,346
3,053,381
3,062,364
41: 3,024,902
3,025,951
3,028,950
3,034,639
3,057,465
3,058,581
3,062,365
3,064,799
41.2: 3,018,878
3,019,892
3,029,931
3,053,382
41.4: 3,063,552
42: 3,025,952
3,025,953
3,027,000
3,031,070
3,033,355
3,049,224
3,053,383
3,054,503
3,059,762
3,061,082
3,064,800
3,065,846
43: 3,021,942
3,036,700
44: 3,021,000
3,054,504
3,058,582
44.12: 3,062,366
45: 3,037,618
45.11: 3,069,003
45.14: 3,026,997
3,027,996
3,028,951
3,039,600
3,044,605
3,047,135
3,050,183
3,069,004
3,070,222
45.19: 3,042,192
3,055,494
3,057,466
3,061,547
45.2: 3,021,943
3,025,954
45.23: 3,015,383
45.24: 3,043,422
3,049,225
45.27: 3,065,848
45.31: 3,017,018
3,017,987
3,018,879
3,027,001
3,033,356
3,033,357
3,040,877
3,044,606
3,051,303
3,062,367
3,063,553
45.33: 3,016,131
3,027,997
3,048,263
3,048,264
3,051,304
3,066,792
45.34: 3,027,998
3,034,640
3,040,878
3,048,265
3,048,266
3,051,305
46: 3,016,132
3,017,019
3,022,885
3,023,885
3,023,886
3,025,955
3,028,952
3,029,932
3,029,933
3,033,358
3,036,701
3,040,879
3,043,423
3,044,607
3,044,608
3,044,609
3,044,610
3,044,611
3,045,814
3,047,136
3,047,137
3,048,267
3,049,226
3,053,384
3,055,495
3,057,467
3,057,468
3,061,083
3,063,554
3,064,801
3,067,865
3,067,866
3,069,005
47: 3,016,133
3,016,134
3,018,880
3,027,999
3,028,000
3,029,934
3,029,935
3,029,936
3,031,071
3,033,359
3,038,689
3,039,601
3,043,424
3,049,227
3,054,505
3,057,469
3,064,802
3,067,867
3,069,006
48: 3,017,988
3,021,944
3,027,002
3,032,178
3,065,849
50: 3,021,945
3,062,368
51: Re.25,234
3,039,602
52: 3,015,384
3,016,135
3,027,003
3,033,360
3,047,138
3,051,306
3,054,506
53: 3,019,893
3,050,184
56: 3,016,136
3,018,881
3,018,882
3,021,001
3,021,946
3,022,886
3,023,887
3,027,004
3,029,937
3,032,179
3,032,180
3,033,361
3,035,690
3,036,702
3,036,703
3,038,596
3,038,597
3,044,612
3,044,613
3,047,139
3,047,140
3,050,185
3,056,491
3,056,492
3,061,084
3,062,369
3,070,224
3,070,225
3,070,226
57: 3,021,002
3,021,947
3,033,362
3,047,141
3,061,085
3,067,868
58: 3,016,137
3,025,956
3,038,598
3,049,228
59: 3,015,385
3,017,020
3,017,021
3,017,989
3,018,883
3,022,887
3,023,888
3,032,181
3,044,614
3,049,229
3,050,186
3,055,496
3,059,763
3,059,764
3,059,765
3,066,793
3,066,794
60: 3,017,022
3,040,880
3,042,193
62: 3,027,005
3,028,001
3,028,953
3,044,615
3,047,142
3,057,470
3,058,583
3,061,086
3,070,223
63.2: 3,017,990
3,025,957
3,028,002
3,032,182
3,035,691
3,045,815
3,053,385
3,056,493
3,058,584
3,059,766
3,061,087
3,062,370
3,062,371
3,063,555
63.3: 3,037,619
3,053,386
3,057,471
3,062,372
63.5: 3,023,889
64: 3,049,230
3,061,088
65: Re.25,111
3,015,386
3,017,023
3,022,888
3,023,890
3,023,891
65: 3,023,892
3,028,003
3,028,005
3,028,954
3,032,183
3,032,184
3,032,185
3,035,692
3,036,704
3,037,620
3,038,599
3,038,600
3,038,601
3,038,602
3,042,194
3,044,616
3,048,268
3,051,307
3,052,347
3,052,348
3,055,497
3,056,494
3,056,495
3,057,472
3,058,585
3,058,586
3,061,089
3,061,090
3,062,373
3,062,374
3,063,556
3,064,803
3,064,804
3,066,796
3,067,869
3,067,870
3,069,007
3,069,008
70: 3,028,004
72: 3,032,186
73: 3,045,816
78: 3,021,948
3,036,705
3,057,473
3,061,091
3,063,557
3,069,009
79: 3,025,958
3,029,938
3,044,617
3,061,092
80: 3,029,939
3,031,072
3,035,693
3,037,621
3,040,881
3,044,618
3,047,143
3,064,804
83: 3,018,884
83.5: 3,040,882
84: 3,028,955
3,029,940
3,037,622
3,057,474
3,063,558
3,063,559

Class 207

1: 3,018,885
3,028,006
3,032,187
3,034,641
3,058,587
3,069,010
2: 3,019,894
3,021,003
3,021,004
3,025,959
3,059,768
4: 3,040,883
9: 3,034,642
3,043,425
10: 3,015,387
3,037,623
3,059,769
3,061,093
15: 3,042,195
16: 3,028,007
3,040,884
17: 3,063,560

Class 208

2: 3,046,217
3: 3,050,455
8: 3,018,241
3,030,297
10: 3,018,242
11: 3,017,342
3,018,243
3,020,227
3,034,979
11: 3,041,267
3,044,948
3,051,644
3,052,620
3,052,621
3,058,903
3,058,904
3,068,167
3,070,541
14: 3,027,315
21: 3,023,156
3,069,346
24: 3,058,905
25: 3,044,949
26: 3,022,245
3,039,953
27: 3,052,622
31: 3,041,268
3,052,623
3,065,164
33: 3,019,179
3,038,854
3,067,125
42: 3,069,347
44: 3,061,538
45: 3,053,750
3,053,751
47: 3,017,343
48: 3,015,619
3,052,624
3,065,165
51: 3,019,180
57: 3,044,950
3,062,735
58: 3,044,951
59: 3,037,930
3,047,490
60: 3,015,549
61: 3,055,822
64: 3,023,157
3,054,744
3,069,348
65: 3,017,344
3,024,186
3,030,298
3,039,954
66: 3,067,126
67: 3,050,456
3,050,457
3,065,166
68: 3,026,260
74: 3,063,932
78: 3,053,752
3,053,753
79: 3,016,344
3,018,244
3,033,777
3,060,116
82: 3,044,952
85: 3,069,349
89: 3,023,158
3,050,458
3,055,823
3,068,933
3,069,350
3,069,351
90: 3,061,539
91: 3,063,934
95: 3,032,495
96: 3,030,299
97: 3,050,459
108: 3,053,754
3,068,168
109: 3,044,953
3,046,218
110: 3,023,159
3,048,536
3,053,755
3,067,127
111: 3,046,219
3,058,906
112: 3,043,769
3,043,770
113: 3,041,196
114: 3,030,300
3,044,954
119: 3,015,620
120: Re.25,220
3,033,778
3,041,269
3,041,270
3,041,271
3,066,092
124: 3,028,331
127: 3,022,246
3,033,779
132: 3,039,955
134: 3,027,316
3,068,169
136: 3,033,780
3,047,491
138: 3,024,187
3,058,907
3,067,128
139: 3,041,272
140: 3,030,301
3,067,129
3,067,130
3,069,352
143: 3,042,197
153: 3,041,273
165: 3,060,117
173: 3,067,131
187: 3,016,345
189: 3,053,756
190: 3,052,625
198: 3,050,460
203: 3,038,855
204: 3,039,956
3,052,626
3,063,935
205: 3,053,757
3,062,736
210: 3,017,345
3,025,230
211: 3,027,317
3,063,936
212: 3,039,957
3,044,955
3,066,093
213: 3,025,231
216: 3,016,346
3,016,347
3,016,348
3,053,758
3,055,824
217: 3,019,181
224: 3,027,318
226: 3,066,094
230: 3,051,645
235: 3,068,170
240: 3,023,160
250: 3,051,646
251: 3,023,161
3,036,968
3,050,461
3,052,627
3,053,759
252: 3,044,956
253: 3,034,980
254: 3,016,349
3,019,182
3,055,825
255: 3,051,647
263: 3,061,540
3,069,354
264: 3,016,350
3,020,228
3,024,188
3,053,760
288: 3,033,781
3,068,171
297: 3,051,648
299: 3,043,771
3,051,649
310: 3,070,542
311: 3,065,167
317: 3,065,168
321: 3,065,169
322: 3,017,346
323: 3,050,462
338: 3,051,650
340: 3,028,332
3,054,745
347: 3,025,232
351: 3,055,826
370: 3,027,319
3,056,741

Class 209

2: 3,016,138
3,022,889
3,037,624
3,055,498
3: 3,051,660
3,063,561
4: 3,032,188
8: 3,016,139
9: 3,033,363
3,033,364
3,052,349
10: 3,063,562
11: 3,022,890
3,027,006
12: 3,019,895
3,031,074
3,032,189
3,032,190
3,043,426
3,047,145
3,061,094
3,061,095
14: 3,040,885
17: 3,064,806
18: 3,023,893
19: 3,038,603
21: 3,045,817

26: 3,043,427
3,061,096
33: 3,044,619
35: 3,036,706
44: 3,042,198
45: 3,055,499
49: 3,045,818
72: 3,016,140
3,016,141
3,018,886
3,021,005
3,023,894
3,023,895
3,028,956
3,028,958
3,037,625
3,039,603
3,040,886
3,047,146
3,051,309
3,064,807
73: 3,018,887
3,024,903
3,025,961
3,042,199
3,047,147
3,067,871
74: 3,016,142
3,017,024
3,018,888
3,019,896
3,023,896
3,023,897
3,024,904
3,033,363
3,034,643
3,045,819
3,047,148
3,048,269
3,049,231
3,052,350
3,052,351
3,052,352
3,058,588
75: 3,015,388
3,021,949
3,032,191
3,035,694
3,039,604
3,065,850
3,067,872
3,070,227
80: 3,024,905
81: 3,017,025
3,019,897
3,024,906
3,028,959
3,029,941
3,067,873
82: 3,021,950
3,023,898
3,031,075
3,033,366
3,035,695
3,038,604
3,040,887
3,043,428
3,044,620
3,045,820
3,056,496
3,064,808
84: 3,063,851
88: 3,017,991
3,018,889
3,023,899
3,032,192
3,064,809
3,065,852
90: 3,027,007
3,029,942
3,053,387
3,069,011
91: 3,039,779
99: 3,042,200
3,059,771
102: 3,019,898
3,038,605
106: 3,028,957
110: 3,034,644
3,069,012
111.5: 3,015,389
3,021,006
3,022,891
3,023,900
3,028,960
3,028,961
3,029,943
3,029,944
3,051,076
3,033,367
3,034,645
3,038,606
3,038,607
111.5: 3,039,605
3,039,606
3,042,201
3,048,270
3,049,232
3,052,353
3,053,388
3,064,810
3,066,797
3,066,798
3,067,874
3,069,013
112: 3,044,621
115: 3,036,707
121: 3,017,026
3,017,027
3,017,992
3,027,008
3,031,078
3,035,696
3,047,149
3,050,187
3,056,497
3,066,799
122: 3,022,892
123: 3,052,354
127: 3,059,772
128: 3,031,079
129: 3,058,589
132: 3,023,901
133: 3,034,646
3,039,607
134: 3,036,708
136: 3,024,907
137: 3,058,590
140: 3,015,390
144: 3,015,391
3,015,392
3,015,393
3,017,993
3,024,908
3,031,080
3,032,193
3,034,647
3,036,709
3,040,888
3,042,202
3,042,203
3,044,622
3,048,271
3,057,475
3,064,811
155: 3,033,368
157: 3,042,204
158: 3,018,890
3,032,194
160: 3,070,228
161: 3,035,697
164: 3,037,626
166: 3,016,143
3,032,195
3,032,196
3,032,197
3,034,648
3,037,627
3,049,272
3,049,233
3,052,355
3,056,498
3,056,499
3,059,773
3,059,774
3,059,775
3,067,875
167: 3,017,028
3,028,008
3,032,198
169: 3,070,229
170: 3,032,199
3,050,188
172: 3,017,994
3,019,900
172.5: 3,016,144
3,023,902
3,023,903
3,028,962
3,034,649
3,040,889
3,048,273
3,051,310
173: 3,031,081
211: 3,019,901
3,024,909
3,037,628
3,039,607
3,057,476
3,061,098
214: 3,045,821
218: 3,042,205
219: 3,024,910
3,045,822
3,049,234
221: 3,021,951
222: 3,015,394
223: 3,016,145
3,021,007
3,033,369
3,057,477
235: 3,035,698
247: 3,043,429
251: 3,047,150
254: 3,037,629
268: 3,024,911
273: 3,034,650
3,045,823
3,058,591
275: 3,044,623
281: 3,061,099
283: 3,063,563
284: 3,059,775
288: 3,055,500
291: 3,036,710
292: 3,051,311
299: 3,021,008
303: 3,062,375
310: 3,070,230
319: 3,040,890
3,070,231
325: 3,033,370
326: 3,029,945
339: 3,021,952
3,021,953
3,035,699
341: 3,039,609
346: 3,024,912
3,049,235
366: 3,032,200
366.5: 3,047,151
367: 3,040,891
372: 3,047,152
393: 3,037,630
394: 3,021,009
395: 3,042,206
396: 3,023,904
3,064,812
397: 3,018,891
405: 3,022,893
3,029,946
3,035,700
408: 3,047,153
412: 3,029,947
3,044,624
3,045,824
416: 3,055,501
433: 3,042,207
435: 3,019,899
441: 3,018,892
442: 3,042,208
447: 3,059,776
458: 3,033,371
464: 3,043,430
467: 3,040,892
468: 3,065,853
471: 3,045,825
475: 3,066,800

Class 210

3: 3,060,118
7: 3,047,492
8: 3,024,189
14: 3,032,496
15: 3,049,489
3,056,742
3,058,908
19: 3,068,172
22: 3,060,119
3,062,737
24: 3,029,200
3,062,738
3,062,739
28: 3,042,606
30: 3,019,183
3,036,000
31: 3,067,132
32: 3,051,651
33: 3,058,743
35: 3,021,276
3,063,937
38: 3,032,497
42: 3,067,133
44: 3,053,761
3,054,746
3,054,747
3,063,938
3,063,939
47: 3,061,541
53: 3,055,827
3,066,995
54: 3,020,229
3,020,230
3,020,231
3,023,162
3,033,782
56: 3,026,261
3,041,274
57: 3,043,772
58: 3,037,931
59: 3,022,247
3,027,320
3,027,321
3,029,201
3,066,096
63: 3,017,347
3,029,202
65: 3,067,876
66: 3,040,893
67: 3,064,813
68: 3,029,948
3,049,236
72: 3,064,814
73: 3,042,209
74: 3,052,356
78: 3,063,564
82: 3,019,184
3,043,431
83: 3,067,877
3,067,878
84: 3,038,608
86: 3,025,962
3,038,609
3,044,625
90: 3,028,009
3,040,894
3,045,826
3,053,389
3,070,232
96: 3,038,610
3,059,777
97: 3,019,902
98: 3,066,801
99: 3,043,432
100: 3,047,154
101: 3,048,274
102: 3,064,815
103: 3,044,626
104: 3,064,816
108: 3,017,029
3,019,903
3,056,499
3,057,478
3,061,100
110: 3,045,827
112: 3,045,828
114: 3,035,701
129: 3,067,879
130: 3,036,711
3,056,500
3,061,101
3,065,854
132: 3,021,954
3,021,955
3,056,501
134: 3,029,949
136: 3,049,237
137: 3,051,312
138: 3,015,395
3,017,030
3,017,995
3,038,611
139: 3,028,963
140: 3,028,964
142: 3,061,102
144: 3,051,313
149: 3,026,965
153: 3,028,966
156: 3,061,103
159: 3,018,893
163: 3,042,210
3,066,802
164: 3,040,895
165: 3,037,631
168: 3,066,803
169: 3,035,702
3,036,712
3,045,829
3,069,014
170: 3,044,627
172: 3,023,905
3,028,010
3,061,104
176: 3,052,357
180: 3,028,967
181: 3,052,358
184: 3,039,610
189: 3,051,314
190: 3,016,146
3,056,502
3,063,565
191: 3,049,238
193: 3,037,632
195: 3,051,315
3,053,390
197: 3,036,713
3,043,433
3,055,502
200: 3,039,611
205: 3,015,621
3,019,185
207: 3,057,796
220: 3,028,011
3,033,372
221: 3,015,396
222: 3,017,031
3,034,651
3,040,896
3,042,211
3,062,376
223: 3,035,703
231: 3,018,894
232: 3,031,082
3,058,593
3,062,378
3,069,018
494: 3,042,216
3,050,193
3,055,505
497: 3,047,156
499: 3,028,012
3,062,379
502: 3,025,233
504: 3,034,981
506: 3,019,186
507: 3,053,762
508: 3,044,957
510: 3,030,302
3,033,783
3,048,537
512: 3,025,965
3,052,361
519: 3,017,998
520: 3,025,966
3,036,715
523: 3,048,277
3,064,821
524: 3,019,906
526: 3,021,957
528: 3,036,716
532: 3,031,083

Class 211

1: 3,032,202
1.5: 3,039,614
1.6: 3,039,615
3,056,506
2: 3,017,034
3,031,084
3,053,396
4: 3,022,895
10: 3,064,822
3,070,234
13: 3,022,896
3,024,915
3,028,013
3,070,235
15: 3,064,823
26: 3,055,506
35: 3,048,500
36: 3,022,897
37: 3,061,108
40: 3,017,999
3,027,012
41: 3,016,148
3,025,967
3,028,972
3,032,203
3,035,706
3,040,901
43: 3,063,567
45: 3,018,000
3,027,013
3,033,374
3,042,217
3,048,278
3,054,508
49: 3,018,001
3,019,907
3,021,010
3,021,011
3,028,014
3,037,638
3,045,831
3,055,507
50: 3,019,908
51: 3,023,908
3,058,595
55: 3,023,907
59: 3,025,968
3,058,596
60: 3,018,897
3,021,012
3,038,612
3,043,437
64: 3,022,898
3,028,971
3,034,655
3,043,436
3,069,017
3,070,233
485: 3,050,191
486: 3,019,905
487: 3,037,637
3,061,107
488: 3,050,192
3,053,394
488: 3,064,820
489: 3,052,360
492: 3,034,656
493: 3,025,963
3,025,964
3,053,395
3,054,507
3,057,481
3,058,593
3,058,594
3,062,378
3,069,018
494: 3,042,216
3,050,193
3,055,505
497: 3,047,156
499: 3,028,012
3,062,379
502: 3,025,233
504: 3,034,981
506: 3,019,186
507: 3,053,762
508: 3,044,957
510: 3,030,302
3,033,783
3,048,537
512: 3,025,965
3,052,361
519: 3,017,998
520: 3,025,966
3,036,715
523: 3,048,277
3,064,821
524: 3,019,906
526: 3,021,957
528: 3,036,716
532: 3,031,083

Class 211

1: 3,032,202
1.5: 3,039,614
1.6: 3,039,615
3,056,506
2: 3,017,034
3,031,084
3,053,396
4: 3,022,895
10: 3,064,822
3,070,234
13: 3,022,896
3,024,915
3,028,013
3,070,235
15: 3,064,823
26: 3,055,506
35: 3,048,500
36: 3,022,897
37: 3,061,108
40: 3,017,999
3,027,012
41: 3,016,148
3,025,967
3,028,972
3,032,203
3,035,706
3,040,901
43: 3,063,567
45: 3,018,000
3,027,013
3,033,374
3,042,217
3,048,278
3,054,508
49: 3,018,001
3,019,907
3,021,010
3,021,011
3,028,014
3,037,638
3,045,831
3,055,507
50: 3,019,908
51: 3,023,908
3,058,595
55: 3,023,907
59: 3,025,968
3,058,596
60: 3,018,897
3,021,012
3,038,612
3,043,437
64: 3,022,898
3,028,971
3,034,655
3,043,436
3,069,017
3,070,233
485: 3,050,191
486: 3,019,905
487: 3,037,637
3,061,107
488: 3,050,192
3,053,394
74: 3,023,908
75: 3,033,375
77: 3,034,657
3,063,568
78: 3,035,707
83: 3,028,015
84: 3,065,858
86: 3,018,898
3,019,909
3,025,969
3,031,085
3,035,708
3,037,639
3,037,640
3,039,617
3,044,630
3,052,362
3,054,510
3,065,859
87: 3,017,036
3,019,910
3,028,973
3,045,833
3,054,509
88: 3,036,717
89: 3,065,569
90: 3,025,970
3,033,376
3,042,218
3,048,279
93: 3,032,204
3,035,709
94: 3,027,015
3,051,318
96: 3,015,398
3,033,377
105.3: 3,040,909
105.4: 3,040,902
105.6: 3,043,438
3,062,381
113: 3,028,974
3,063,570
114: 3,017,037
117: 3,029,952
119: 3,040,903
3,055,509
119.07: 3,058,598
119.08: 3,042,219
122: 3,019,911
123: 3,018,899
124: 3,021,958
3,057,482
126: 3,018,002
3,018,003
3,021,959
3,022,900
3,028,975
3,033,378
3,047,157
3,047,158
3,053,397
128: 3,043,439
132: 3,039,618
133: 3,031,086
3,051,319
134: Re.25,117
3,015,399
3,062,382
136: 3,021,013
3,031,087
3,039,619
3,044,631
3,052,363
3,056,507
3,067,882
137: 3,059,779
3,070,236
143: 3,016,150
3,023,910
144: 3,019,912
147: 3,029,953
3,039,620
3,039,621
3,040,904
3,054,632
3,044,633
3,050,194
3,054,511
3,059,780
148: Re.25,156
3,018,900
3,028,976
3,039,622
3,040,905
3,042,220
3,042,221
3,044,634
3,045,834
3,056,508
3,057,483
149: 3,028,016
3,045,835
153: 3,027,016
3,065,860

Class 211—Con.

162: 3,038,613
3,069,020
164: 3,055,510
168: 3,058,599
170: 3,018,004
3,023,911
176: 3,025,971
3,031,088
177: 3,021,960
3,021,961
3,063,571
178: 3,029,912
3,033,379
3,043,440
3,043,441
3,051,320
3,069,021
183: 3,015,400
3,040,906
184: 3,027,017

Class 212

1: 3,025,972
3: 3,018,901
3,042,222
3,054,512
3,057,484
4: 3,061,109
3,069,022
7: 3,036,718
3,043,442
8: 3,018,005
3,024,916
3,024,917
3,024,918
3,032,205
3,034,658
3,035,710
3,043,443
3,055,511
3,058,600
3,059,781
12: 3,065,861
13: 3,059,782
14: 3,024,919
3,034,659
3,051,321
3,061,110
15: 3,051,322
3,063,572
17: 3,050,195
18: 3,021,962
20: 3,018,902
3,043,444
3,047,159
21: 3,028,977
3,061,111
34: 3,022,961
35: 3,024,920
3,032,206
3,032,207
3,035,711
3,045,836
3,047,160
3,051,323
3,051,324
38: 3,051,325
3,051,326
3,056,509
39: 3,035,712
3,043,445
46: 3,034,660
3,037,641
3,045,837
3,053,398
55: 3,029,954
3,044,635
3,050,196
3,066,804
58: 3,028,017
3,049,242
3,062,383
3,065,862
59: 3,028,018
3,034,661
3,047,161
3,056,510
61: 3,064,824
67: 3,033,380
69: 3,029,955
3,037,642
74: 3,061,112
87: 3,058,601
3,059,783
128: 3,021,963
129: 3,033,381
3,033,382
135: 3,016,151
3,033,383
144: 3,021,014
3,062,384
145: 3,019,913
3,021,015
3,021,016
3,023,913
3,023,914
3,035,713
3,037,643
3,061,113
3,062,385
3,062,386
3,064,825

Class 213

1: 3,025,973
3,042,223
8: 3,028,019
3,047,162
41: 3,042,224
43: 3,031,089
3,033,384
3,035,714
3,040,907
44: Re.25,273
45: Re.25,110
64: 3,017,038
67: 3,063,573
72: 3,021,017
3,061,114
89: 3,016,152
100: 3,025,975
3,033,385
112: 3,045,838
133: 3,056,511
147: 3,029,956
167: 3,021,964
211: 3,056,512
3,069,023
212: 3,067,883
217: 3,033,386
223: 3,062,387

Class 214

1: 3,016,153
3,018,006
3,018,007
3,019,914
3,021,018
3,021,019
3,021,965
3,022,902
3,022,903
3,025,976
3,025,977
3,025,978
3,028,020
3,028,021
3,028,978
3,029,957
3,031,090
3,032,208
3,033,387
3,033,388
3,033,389
3,034,663
3,035,715
3,036,719
3,038,614
3,039,623
3,040,908
3,040,909
3,040,910
3,041,691
3,042,225
3,042,226
3,043,446
3,043,447
3,043,448
3,043,449
3,044,636
3,045,839
3,047,164
3,047,166
3,047,167
3,048,280
3,048,281
3,049,243
3,050,197
3,051,327
3,051,328
3,051,329
3,051,330
3,051,331
3,053,399
3,053,400
3,054,513
3,054,514
3,055,512
3,055,513
1: 3,057,485
3,058,602
3,059,784
3,059,785
3,061,115
3,061,116
3,062,388
3,062,389
3,063,574
3,063,575
3,064,826
3,065,863
3,065,864
3,066,805
3,067,884
3,069,024
3,069,025
3,069,026
1.1: 3,019,915
1.2: 3,066,806
1.4: 3,070,238
1.5: 3,027,018
3,047,165
41: 3,042,224
43: 3,031,089
3,033,384
3,035,714
3,040,907
44: Re.25,273
45: Re.25,110
64: 3,017,038
67: 3,063,573
72: 3,021,017
3,061,114
89: 3,016,152
100: 3,025,975
3,033,385
112: 3,045,838
133: 3,056,511
147: 3,029,956
167: 3,021,964
211: 3,056,512
3,069,023
212: 3,067,883
217: 3,033,386
223: 3,062,387

Class 214

1: 3,016,153
3,018,006
3,018,007
3,019,914
3,021,018
3,021,019
3,021,965
3,022,902
3,022,903
3,025,976
3,025,977
3,025,978
3,028,020
3,028,021
3,028,978
3,029,957
3,031,090
3,032,208
3,033,387
3,033,388
3,033,389
3,034,663
3,035,715
3,036,719
3,038,614
3,039,623
3,040,908
3,040,909
3,040,910
3,041,691
3,042,225
3,042,226
3,043,446
3,043,447
3,043,448
3,043,449
3,044,636
3,045,839
3,047,164
3,047,166
3,047,167
3,048,280
3,048,281
3,049,243
3,050,197
3,051,327
3,051,328
3,051,329
3,051,330
3,051,331
3,053,399
3,053,400
3,054,513
3,054,514
3,055,512
3,055,513
11: 3,044,638
3,049,246
3,062,391
3,067,886
14: 3,062,392
3,064,829
15: 3,042,227
3,069,028
16: 3,024,922
3,027,023
3,048,282
3,052,364
16.1: 3,016,154
3,018,903
3,027,024
3,032,212
3,033,390
3,034,666
3,035,717
3,040,913
3,042,228
3,043,451
3,054,518
3,055,517
3,057,487
3,061,119
3,061,120
3,063,579
3,063,580
3,066,808
3,069,029
16.4: 3,029,959
3,033,391
3,033,392
3,037,646
84: 3,019,920
3,021,969
3,028,025
3,029,960
3,035,723
3,037,648
3,038,616
3,039,629
3,041,542
3,056,517
3,057,492
3,057,493
3,064,838
85: 3,021,970
3,043,456
3,051,336
3,058,603
85.1: 3,028,982
85.5: 3,038,617
86: 3,048,286
3,051,337
89: 3,058,604
90: 3,048,287
91: 3,038,618
92: 3,022,908
3,066,810
103: 3,019,921
104: 3,034,669
110: 3,058,605
131: 3,021,022
3,022,909
3,024,927
3,040,918
3,043,457
3,047,170
3,067,887
3,069,032
132: 3,061,122
135: 3,037,649
3,045,844
138: 3,018,010
3,021,023
3,027,026
3,033,394
3,034,670
3,041,671
3,042,233
3,047,171
3,057,494
140: Re.25,207
3,017,046
3,018,011
3,019,922
3,019,923
3,022,910
3,022,911
3,028,026
3,029,961
3,032,215
3,033,395
3,035,724
3,038,619
3,045,843
3,047,172
3,055,520
3,057,495
3,057,496
3,059,792
77: 3,021,021
3,035,721
3,042,231
3,048,284
3,049,249
3,056,516
3,057,490
3,057,491
3,059,790
3,063,584
3,065,868
3,065,869
3,032,214
78: 3,035,722
82: 3,019,919
3,021,968
3,049,250
3,050,203
3,064,835
3,069,031
83.1: 3,034,668
83.18: 3,048,285
83.24: 3,064,836
83.28: 3,070,243
83.3: 3,062,394
83.32: 3,059,791
83.34: 3,042,232
83.36: 3,025,982
3,036,722
3,043,455
3,044,640
3,049,251
3,053,404
3,057,489
3,064,837
84: 3,019,920
3,021,969
3,028,025
3,029,960
3,035,723
3,037,648
3,038,616
3,039,629
3,041,542
3,056,517
3,057,492
3,057,493
3,064,838
85: 3,021,970
3,043,456
3,051,336
3,058,603
85.1: 3,028,982
85.5: 3,038,617
86: 3,048,286
3,051,337
89: 3,058,604
90: 3,048,287
91: 3,038,618
92: 3,022,908
3,066,810
103: 3,019,921
104: 3,034,669
110: 3,058,605
131: 3,021,022
3,022,909
3,024,927
3,040,918
3,043,457
3,047,170
3,067,887
3,069,032
132: 3,061,122
135: 3,037,649
3,045,844
138: 3,018,010
3,021,023
3,027,026
3,033,394
3,034,670
3,041,671
3,042,233
3,047,171
3,057,494
140: Re.25,207
3,017,046
3,018,011
3,019,922
3,019,923
3,022,910
3,022,911
3,028,026
3,029,961
3,032,215
3,033,395
3,035,724
3,038,619
3,045,843
3,047,172
3,055,520
3,057,495
3,057,496
3,059,792
140: 3,065,870
3,067,888
3,070,244
141: 3,042,234
3,069,033
145: 3,039,630
3,042,235
3,049,252
3,061,123
3,064,839
3,070,245
146: 3,027,027
3,059,793
3,070,246
146.5: 3,028,027
3,070,247
147: 3,016,155
3,021,971
3,038,620
3,048,288
3,049,253
3,052,366
3,055,521
3,069,034
151: 3,018,904
3,042,236
152: 3,016,156
3,044,641
3,048,289
3,056,518
3,059,794
3,063,585
3,066,811
3,067,889
176: 3,027,104
300: 3,067,890
301: 3,033,396
302: 3,016,157
3,024,928
3,027,028
3,032,216
3,034,672
3,035,725
3,040,919
3,049,254
3,063,586
304: 3,019,924
305: 3,022,912
307: 3,025,983
3,028,028
3,067,891
308: 3,058,606
309: 3,055,522
3,057,497
3,066,812
3,069,035
310: 3,019,925
3,022,913
3,028,029
3,031,092
3,035,726
3,045,846
3,056,519
3,062,395
311: 3,044,642
313: 3,024,929
3,039,631
314: 3,042,237
3,057,498
317: 3,016,401
3,042,238
331: 3,036,723
332: 3,069,036
333: 3,038,621
340: 3,021,972
3,042,239
350: 3,038,622
3,064,840
370: 3,035,727
3,039,632
3,043,847
374: 3,051,338
384: 3,034,673
3,048,290
3,066,813
390: 3,018,905
3,039,633
392: 3,019,926
3,045,848
3,066,814
394: 3,025,984
396: Re.24,145
Re.25,276
3,019,927
3,028,030
450: 3,039,634
3,042,240
3,044,643
3,045,849
3,048,291
3,049,255
3,058,607
3,064,841
3,066,815
451: 3,019,928
501: 3,024,930
3,027,029
3,033,397
503: 3,044,644
504: 3,069,037
505: 3,018,906
3,025,985
3,027,030
3,031,093
3,032,217
3,032,218
3,035,728
3,043,458
3,044,645
3,044,646
3,051,339
3,056,520
3,058,608
3,058,609
3,064,842
3,066,816
3,069,038
506: 3,018,907
3,033,398
3,037,650
3,043,459
3,061,124
3,065,871
3,067,892
508: 3,018,908
3,050,204
3,056,521
510: 3,048,292
512: 3,051,340
3,054,519
514: 3,021,024
3,039,635
3,039,636
3,050,205
3,067,893
515: 3,055,523
517: 3,024,931
3,034,674
518: 3,049,256
519: 3,024,932
3,032,219
3,035,729
3,044,173
520: 3,047,174
522: 3,021,025
3,066,817
620: 3,015,402
3,019,929
3,023,919
3,032,220
3,045,850
3,050,206
3,053,405
3,054,520
3,061,125
623: 3,064,843
651: 3,040,920
3,054,521
652: 3,016,158
3,027,031
3,044,647
653: 3,037,651
3,042,241
3,045,851
3,045,852
3,057,499
654: 3,018,909
656: 3,033,399
657: 3,028,031
3,042,242
658: 3,040,921
3,067,894
3,067,895
670: 3,039,637
3,043,460
671: 3,066,818
672: 3,033,400
3,033,401
3,045,853
3,061,126
3,061,127
673: 3,032,221
674: 3,031,094
3,049,257
3,054,522
701: 3,027,033
707: 3,027,032
3,032,222
3,065,872
714: 3,032,223
730: 3,029,962
3,034,675
3,039,638
3,048,293
3,059,795
731: 3,019,930
3,025,986
3,027,033

731: 3,033,402
3,040,922
3,059,796
3,070,248
741: 3,052,367
3,061,128
750: 3,063,587

Class 215

1: 3,029,963
3,031,095
3,033,403
3,033,404
3,033,405
3,043,461
3,066,819
3,069,039
6: 3,052,368
7: 3,018,012
3,028,983
9: 3,019,931
3,027,034
3,027,035
3,033,406
3,044,648
3,055,524
3,063,588
11: Re.25,247
3,022,914
3,022,915
3,043,462
3,044,649
3,044,650
3,049,258
3,051,341
3,055,525
3,059,797
3,061,129
3,065,873
3,070,249
12: 3,031,096
13: Re.25,146
3,015,403
3,016,159
3,017,047
3,028,984
3,032,224
3,037,652
3,038,623
3,039,639
3,047,175
3,048,294
3,058,610
3,059,798
3,067,896
3,070,250
18: 3,025,987
21: 3,037,500
3,063,589
22: 3,018,910
3,031,097
25: 3,067,897
31: 3,015,404
3,022,916
3,032,225
3,044,651
3,064,844
37: 3,019,932
3,035,730
3,067,898
39: 3,033,407
3,057,501
40: 3,017,048
3,018,911
3,047,176
3,051,342
3,061,130
3,062,306
41: 3,019,933
3,025,988
3,038,624
3,042,242
3,053,406
3,055,526
3,061,131
3,066,820
3,067,899
3,069,040
42: 3,025,989
43: 3,028,032
3,053,407
44: 3,017,049
3,022,917
3,028,033
3,061,132
46: 3,024,934
3,032,226
3,042,243
3,056,522
47: 3,025,990
3,057,502
48: 3,017,050
3,057,503
3,066,821

48: 3,070,251
52: 3,028,985
3,051,343
56: 3,022,918
3,025,991
3,033,408
3,043,463
3,045,854
3,047,177
3,047,178
3,059,799
3,059,800
3,067,900
63: 3,028,034
73: 3,018,013
3,047,179
81: 3,037,653
98: 3,059,801
99.5: 3,028,035
3,045,855
100: 3,018,912
3,021,026
3,021,973
3,027,036
3,033,409
3,035,731
3,037,654
3,043,464
100.5: 3,017,051
3,018,014
3,018,913
3,027,037
3,063,590

Class 217

3: 3,024,935
3,028,986
12: 3,027,038
3,036,725
3,048,295
14: 3,051,344
16: 3,057,504
22: 3,036,726
3,055,527
26.5: 3,040,923
3,049,259
27: 3,056,523
33: 3,038,625
34: 3,051,345
43: 3,039,640
3,064,845
53: 3,018,015
3,049,260
56: 3,015,405
60: 3,019,934
3,047,180
3,064,846
3,064,847
65: 3,067,901
68: 3,037,655
69: 3,064,848
110: 3,028,036
113: 3,039,641
114: 3,064,849

Class 218

.5: 3,067,902
1: 3,036,727
2: 3,034,676
3,040,924
6: 3,045,856
29: 3,044,652
3,047,181
30: 3,028,037
3,042,244
42: 3,017,052
3,028,987
3,031,098
3,033,410
3,038,626
3,042,245
3,048,296
3,055,528
43: 3,047,182

Class 219

7.5: 3,028,468
3,031,553
3,068,336
8.5: 3,028,469
3,030,482
3,037,105
3,038,055
9.5: 3,017,483
3,022,407
3,031,554
3,035,142
3,045,093
3,059,082
3,070,683
10.41: 3,021,412

10.41: 3,041,434
3,045,094
3,049,605
3,056,876
3,057,985
10.47: 3,056,877
10.49: 3,053,959
10.51: 3,046,378
10.53: 3,017,484
3,040,153
3,053,960
10.55: 3,027,442
3,049,686
3,050,606
3,066,210
10.65: 3,060,297
10.67: 3,051,811
10.69: 3,027,443
3,036,186
3,041,435
3,051,812
3,053,961
3,057,986
3,065,324
10.71: 3,056,878
10.75: 3,021,413
3,059,083
3,064,108
3,067,308
10.77: 3,035,143
3,046,379
3,064,109
10.79: 3,017,485
3,031,555
3,045,095
19: 3,016,441
3,017,486
3,018,355
3,020,376
3,020,877
3,020,878
3,020,879
3,022,408
3,023,293
3,024,340
3,025,378
3,026,397
3,028,470
3,029,330
3,030,483
3,030,484
3,031,556
3,031,557
3,032,634
3,032,635
3,033,967
3,036,187
3,038,056
3,038,982
3,040,154
3,041,436
3,042,780
3,043,942
3,043,943
3,045,096
3,045,097
3,045,098
3,047,701
3,047,702
3,047,703
3,047,704
3,050,607
3,050,608
3,050,609
3,052,787
3,053,962
3,054,881
3,056,011
3,057,987
3,057,988
3,061,703
3,062,940
3,064,110
3,064,111
3,067,309
3,067,310
3,068,337
3,068,522
20: 3,015,710
3,018,356
3,020,380
3,020,381
3,022,409
3,023,294
3,024,341
3,028,471
3,028,472
3,028,473
3,029,331
3,031,558
3,031,559
3,031,560
3,032,636
3,033,968

20: 3,033,969
3,036,188
3,036,189
3,037,106
3,038,983
3,038,984
3,040,155
3,040,156
3,040,157
3,040,158
3,041,437
3,041,438
3,042,781
3,042,782
3,046,380
3,047,705
3,049,606
3,050,610
3,050,611
3,051,813
3,051,814
3,051,815
3,052,788
3,059,084
3,059,085
3,060,298
3,060,299
3,062,941
3,062,942
3,062,943
3,065,325
3,067,311
3,067,312
3,068,338
3,069,523
3,069,524
3,070,684
3,070,685
21: 3,024,342
3,031,561
3,062,944
3,067,313
25: 3,030,485
3,035,144
26: 3,023,295
3,024,343
3,032,637
3,048,687
3,050,612
3,061,704
27: 3,031,562
29: 3,017,487
3,036,190
3,038,985
3,040,159
3,041,439
30: 3,067,314
32: 3,028,474
3,040,160
3,046,381
33: 3,045,099
3,068,339
34: 3,015,711
3,019,324
3,020,982
3,023,296
3,023,297
3,025,379
3,026,398
3,032,638
3,036,191
3,045,100
3,051,816
3,052,789
3,052,790
3,057,989
3,060,300
3,062,945
3,066,211
3,069,525
35: 3,015,712
3,016,442
3,016,443
3,024,344
3,025,380
3,026,399
3,026,400
3,027,444
3,030,486
3,036,192
3,036,193
3,038,986
3,038,987
3,041,440
3,053,963
3,059,086
3,059,087
3,059,088
3,059,089
3,065,326
3,066,212
3,066,213
37: 3,016,444
3,016,445
3,017,488

37: 3,017,489
3,017,490
3,017,491
3,020,383
3,021,414
3,022,410
3,023,298
3,024,345
3,024,346
3,036,194
3,040,161
3,042,783
3,042,784
3,042,785
3,043,944
3,045,101
3,047,706
3,048,688
3,051,817
3,051,818
3,051,819
3,054,882
3,056,012
3,061,705
3,065,327
3,067,315
3,068,340
3,069,526
38: 3,019,325
3,023,299
3,025,381
3,031,563
3,035,145
3,036,195
3,038,057
3,056,879
3,066,214
3,069,527
39: 3,020,384
3,025,382
3,026,401
3,028,475
3,029,332
3,031,564
3,035,146
3,051,820
3,059,090
3,060,301
3,060,302
3,061,706
3,067,316
3,068,341
3,069,528
40: 3,020,385
3,053,964
41: 3,059,691
3,061,707
42: 3,020,386
43: 3,025,383
3,028,476
3,052,791
3,056,013
44: 3,017,492
3,022,411
3,025,384
3,026,402
3,030,487
3,031,565
3,037,107
3,038,058
3,059,092
3,064,112
3,064,113
3,068,342
46: 3,016,446
3,017,493
3,022,412
3,028,477
3,033,970
3,041,441
3,045,102
3,051,821
3,060,303
3,062,946
50: 3,020,387
3,025,385
3,027,445
3,042,786
3,050,613
3,056,880
3,056,881
3,060,304
3,060,305
52: 3,024,347
56: 3,019,326
3,037,108
3,050,614
57: 3,026,403
59: Re.25,300
60: 3,020,388
3,023,300
3,035,147
3,042,787
3,050,615

60: 3,065,328
3,068,343
3,069,529
62: 3,024,348
3,030,488
3,046,382
63: 3,036,196
3,040,162
64: 3,069,530
65: 3,054,883
3,056,882
67: Re.25,183
3,017,494
3,042,788
68: 3,035,148
3,048,689
3,068,344
3,068,345
69: 3,033,971
3,035,149
3,035,150
3,035,151
3,036,197
3,041,442
3,042,789
3,047,707
3,050,616
3,053,965
3,053,966
3,056,014
3,061,708
3,067,317
72: 3,018,357
3,018,358
3,020,389
73: 3,022,413
3,024,349
3,042,790
3,046,383
74: 3,023,301
3,023,302
0,033,972
3,035,152
3,035,153
3,035,154
3,047,708
3,051,822
3,051,823
3,052,792
3,053,967
3,053,968
3,059,093
3,062,947
3,064,114
3,066,215
75: 3,024,350
3,027,446
3,027,447
3,030,489
3,030,490
3,035,155
3,042,791
3,047,709
3,061,709
3,061,710
76: 3,016,447
3,019,327
3,028,478
3,028,479
3,030,491
3,062,948
78: 3,028,480
3,036,198
3,045,103
3,061,711
3,064,115
3,069,531
79: 3,016,448
3,040,163
3,041,443
3,056,883
80: 3,028,481
3,051,824
3,068,346
81: 3,026,404
82: 3,017,495
3,021,415
3,021,416
3,029,333
3,064,116
3,064,117
3,068,347
3,070,686
83: 3,040,164
85: 3,033,973
3,042,792
3,047,710
3,048,690
3,050,617
3,053,969
3,056,015
3,064,118
3,067,318

86: 3,015,713
3,024,351
3,036,199
3,045,104
3,057,990
3,059,094
89: 3,018,359
3,021,417
3,030,492
3,049,607
3,066,216
3,068,348
90: 3,050,618
91: 3,038,988
3,068,349
92: 3,030,493
3,036,200
93: 3,056,884
94: 3,036,201
95: 3,015,714
97: 3,036,202
3,046,384
3,046,385
98: 3,045,105
3,052,793
3,056,016
3,059,095
3,064,119
99: 3,021,418
3,037,109
3,038,989
3,040,165
3,047,711
100: 3,061,712
101: 3,027,448
3,030,494
3,036,203
3,036,204
3,059,096
102: 3,065,329
103: 3,042,793
3,053,970
107: 3,047,712
3,053,971
3,061,713
108: 3,051,825
3,059,097
110: 3,060,306
3,068,350
111: 3,053,972
114: 3,056,017
116: 3,053,973
3,053,974
117: 3,015,715
3,016,449
3,016,450
3,033,974
3,049,608
3,067,319
118: 3,047,713
3,067,320
121: 3,027,449
124: 3,017,496
3,021,419
3,026,405
3,065,330
3,068,351
125: 3,019,328
3,025,386
3,031,566
3,032,639
3,033,975
3,035,156
3,035,157
3,041,444
3,045,106
3,062,949
3,063,120
126: 3,024,352
3,040,166
3,046,386
127: 3,022,414
3,035,158
3,043,945
3,045,107
3,047,714
3,047,715
3,061,714
3,062,950
128: 3,051,826
130: 3,015,716
3,016,451
3,018,360
3,022,415
3,023,303
3,024,353
3,025,387
3,026,406
3,031,567
3,033,976
3,038,059
3,038,990
3,046,387
3,048,691

Class 219—Con.

130: 3,051,827
3,053,975
3,056,018
3,060,307
3,069,552
131: 3,018,361
3,019,329
3,021,420
3,024,554
3,025,388
3,026,407
3,030,495
3,041,445
3,048,692
3,048,693
3,051,828
3,051,829
3,054,884
3,054,885
3,054,886
3,059,068
3,069,533
135: 3,049,609
136: 3,032,640
137: 3,031,568
3,035,159
3,045,108
3,049,610
3,059,099
3,068,352
3,069,554
143: 3,045,109
144: 3,059,100
145: 3,019,330
3,030,496
3,059,101
146: 3,016,452
3,033,977
3,036,205
3,043,946
3,045,110
149: 3,051,830
3,053,976
3,065,331
150: 3,021,421
3,042,794
152: 3,057,321
154: 3,059,535
155: 3,068,353
156: 3,040,167
158: 3,054,887
160: 3,053,977

Class 220

1: 3,015,406
3,028,988
3,037,656
3,059,802
3,063,591
1.5: 3,015,407
3,032,227
3,040,925
3,044,653
3,061,133
3,061,134
2.1: 3,057,505
3: 3,018,914
3,024,936
3,027,039
3,031,099
3,038,627
3,044,654
3,050,207
3,066,822
3.4: 3,015,408
3,015,409
3,029,964
3,059,803
3,070,252
3.5: 3,058,611
3.6: 3,023,920
3,052,369
3.7: 3,064,850
3.8: 3,024,937
3,029,965
3,034,677
3,034,678
3,035,732
3,063,592
3.9: 3,040,926
3.94: 3,028,989
3,028,990
4: 3,032,228
3,032,229
3,044,655
3,044,656
3,047,183
5: 3,023,921
3,024,938
3,025,992
3,029,966
5: 3,043,465
3,045,857
3,055,529
6: 3,032,230
3,056,524
9: 3,027,040
3,029,967
3,038,628
3,047,184
3,050,208
3,060,041
3,070,253
10: 3,018,016
3,024,939
3,045,858
3,054,523
3,069,042
11: 3,023,922
13: 3,069,043
14: 3,043,466
3,043,467
3,059,804
3,069,044
15: 3,016,160
3,018,915
3,018,916
3,021,027
3,025,993
3,032,231
3,035,733
3,037,657
3,054,524
3,062,397
3,069,045
16: 3,029,968
3,054,525
17: 3,037,658
3,052,370
3,057,506
18: 3,033,411
3,038,629
3,039,642
3,047,185
3,050,209
3,050,210
3,064,851
19: 3,037,659
3,038,630
3,039,643
3,061,135
20: 3,029,969
3,039,644
3,052,371
3,061,136
21: 3,027,041
3,029,970
3,034,679
3,055,531
3,056,525
22: 3,055,532
3,067,903
23: 3,032,232
3,045,859
3,063,593
23.2: 3,032,233
23.4: 3,028,991
3,033,412
3,065,874
23.8: 3,051,346
23.83: 3,028,038
3,037,660
3,067,904
24: 3,067,905
24.5: 3,017,053
3,035,734
3,048,297
25: 3,040,645
26: 3,019,935
3,029,971
3,033,413
3,043,468
3,048,298
3,049,261
3,054,526
3,055,533
3,057,507
3,059,805
3,060,806
27: 3,028,992
3,034,680
3,039,646
29: 3,062,398
30: 3,039,647
31: 3,023,923
3,045,860
3,051,347
3,055,534
3,059,807
3,061,137
3,062,399
32: 3,064,852
35: 3,021,028
3,029,972
3,033,414
35: 3,055,535
36: 3,018,917
38: 3,052,372
39: 3,023,924
3,027,042
3,051,348
3,051,349
3,070,254
40: 3,027,043
3,029,973
3,042,246
3,070,255
41: 3,018,918
3,050,211
42: 3,050,212
43: 3,051,350
3,067,906
44: 3,021,029
3,028,039
3,042,247
3,047,186
3,053,408
3,055,536
3,061,138
3,061,139
3,062,400
3,067,907
3,067,908
46: 3,021,974
3,028,993
3,038,631
3,038,632
3,040,927
3,042,248
3,043,469
3,047,187
3,055,537
3,055,538
3,062,401
3,063,594
3,064,853
3,066,823
48: 3,042,249
3,067,909
51: 3,033,415
52: 3,025,994
3,034,681
53: 3,019,936
54: 3,048,299
3,055,539
3,059,808
3,067,910
55: 3,018,017
3,024,940
3,038,633
3,049,262
3,049,263
55.7: 3,057,508
57: 3,045,861
60: 3,021,975
3,023,925
3,023,926
3,032,234
3,049,264
3,055,540
3,058,612
3,065,875
3,066,824
62: 3,035,735
3,038,634
63: 3,015,410
3,018,018
3,024,941
3,027,044
3,029,974
3,039,648
3,043,470
3,047,188
3,057,509
64: 3,070,256
65: 3,019,937
66: 3,021,976
3,023,927
3,064,855
67: 3,051,351
3,053,409
71: 3,024,942
3,030,995
3,047,189
3,047,190
3,062,402
72: 3,062,403
75: 3,036,728
77: 3,048,300
80: 3,039,649
3,044,657
3,044,658
81: 3,019,938
82: 3,048,301
83: 3,047,191
85: 3,024,943
3,028,040
3,029,975
3,069,046
86: 3,016,161
3,016,162
3,029,976
88: 3,018,019
89: 3,064,854
90: 3,019,939
3,028,041
3,061,140
90.4: 3,015,411
3,021,977
91: 3,015,412
3,028,042
93: 3,016,163
3,053,410
94: 3,025,996
3,044,659
3,059,809
95: 3,025,997
96: 3,043,471
97: 3,027,045
3,039,650
3,048,302
3,049,265
3,052,373
3,056,526
3,057,510
3,059,810
3,070,257
102: 3,025,998
3,028,043
3,045,862
3,045,863
103: 3,055,541
104: 3,055,542
105: 3,034,682
3,065,876
3,070,258
110: 3,039,651
111: 3,027,046
113: 3,017,054
3,018,919
3,025,999
3,028,044
3,029,977
3,031,100
3,037,661
3,053,411
3,054,527
3,056,527
3,061,141
3,061,142
3,062,404
3,063,595
115: 3,037,662
116: 3,055,543
3,056,528
117: 3,065,877

Class 221

1: 3,034,683
2: 3,061,143
6: 3,058,613
7: 3,045,864
3,053,596
9: 3,015,413
3,016,164
3,058,614
3,069,047
10: 3,018,020
3,026,000
3,028,045
3,044,660
11: 3,024,944
3,070,259
13: 3,035,416
3,033,417
3,033,418
3,045,865
3,061,144
3,064,856
14: 3,055,544
15: 3,056,529
19: 3,054,528
22: 3,029,978
3,029,979
3,056,530
25: 3,039,652
26: 3,051,352
30: 3,027,047
34: 3,017,055
3,028,046
36: 3,063,597
40: 3,023,928
41: 3,042,250
3,065,878
42: 3,026,001
44: 3,028,047
45: 3,069,048
47: 3,023,929
48: 3,019,940
3,036,729
3,043,472
59: 3,052,374
3,066,825
63: 3,043,473
64: 3,021,978
67: 3,026,002
69: 3,045,866
73: 3,051,353
75: 3,036,730
3,057,511
77: 3,021,030
3,057,512
3,062,405
81: 3,038,535
3,042,251
3,042,252
3,067,911
87: 3,033,419
88: 3,062,406
90: 3,018,920
3,031,101
3,037,663
93: 3,028,048
94: 3,036,731
102: 3,070,260
109: 3,019,941
3,043,474
112: 3,028,994
113: 3,036,732
3,058,615
114: 3,057,513
116: 3,016,165
3,040,928
3,053,412
3,064,857
125: 3,019,942
3,029,980
3,043,475
126: 3,055,545
129: 3,035,736
133: 3,039,653
143: 3,047,192
145: 3,042,253
154: 3,028,049
157: 3,021,979
162: Re.25,297
163: 3,047,193
166: 3,051,354
3,061,145
167: 3,021,980
3,032,235
3,059,811
3,059,812
171: 3,069,049
173: 3,042,254
175: 3,058,616
3,066,826
179: 3,057,514
186: 3,042,255
199: 3,066,827
200: 3,016,166
3,023,930
202: 3,021,981
211: 3,045,867
3,051,355
213: 3,032,236
221: 3,043,476
3,057,515
223: 3,032,237
3,058,617
224: 3,069,050
225: 3,026,003
3,062,407
227: 3,055,546
232: 3,037,664
3,055,547
233: 3,055,879
234: 3,038,636
235: 3,016,167
236: 3,028,995
3,057,516
237: 3,036,733
238: 3,036,734
3,058,618
240: 3,050,214
243: 3,023,931
244: 3,059,813
246: 3,040,929
3,061,146
251: 3,034,684
3,037,665
263: 3,019,943
267: 3,035,996
268: 3,061,147
271: 3,038,637
273: 3,021,031
281: 3,018,921
3,055,548
289: 3,036,735
295: 3,066,828
301: 3,042,256
302: 3,019,944
305: 3,058,619
309: 3,042,257

Class 222

82: 3,035,737
94: 3,029,983
3,031,104
3,042,263
3,066,829
95: 3,040,933
3,052,380
3,055,553
3,058,623
100: 3,065,881
105: 3,022,920
3,026,005
107: 3,058,624
3,070,262
108: 3,015,418
3,022,921
109: 3,059,816
113: 3,035,738
129: 3,038,641
3,039,642
3,043,479
3,044,665
130: 3,015,419
131: 3,036,740
132: 3,034,685
3,052,381
133: 3,039,655
3,049,266
3,055,554
3,062,410
134: 3,049,267
135: 3,035,739
3,066,830
136: 3,027,050
3,030,952
137: 3,040,934
3,058,625
138: 3,032,238
139: 3,035,740
142: 3,028,998
3,037,671
3,042,264
143: 3,023,934
3,045,871
3,062,411
144.5: 3,015,420
145: 3,044,666
146: 3,031,106
3,042,265
3,043,480
3,045,872
148: 3,036,741
152: 3,018,021
153: 3,021,034
3,064,860
158: 3,036,742
3,043,481
161: 3,028,053
3,033,423
3,043,482
3,050,215
162: 3,027,051
3,045,873
3,048,304
3,065,882
164: 3,017,056
3,023,935
166: 3,062,412
167: 3,061,149
173: 3,039,656
174: 3,039,657
176: 3,029,984
177: 3,019,945
3,053,418
3,063,599
3,070,263
178: 3,035,741
3,037,861
180: 3,018,925
3,019,946
3,028,054
3,028,055
3,039,658
3,042,266
182: 3,022,922
3,037,672
3,039,659
3,058,626
184: 3,023,216
185: 3,037,673
3,040,935
3,042,267
3,062,413
3,066,831
189: 3,016,168
3,028,999
3,031,107
3,034,686
3,053,419
191: 3,021,983
192: 3,016,169
193: 3,018,926
3,063,600
3,064,862

195: 3,029,000
3,053,420
3,057,519
3,062,414
196: 3,021,984
3,031,108
205: 3,064,863
207: 3,029,001
3,040,936
3,043,483
3,055,555
3,066,832
209: 3,057,520
3,066,833
210: 3,058,627
211: 3,050,217
3,067,913
212: 3,055,556
213: 3,035,742
3,063,601
215: 3,048,305
3,054,535
3,066,834
227: 3,038,643
3,049,268
3,055,957
3,067,914
3,070,264
233: 3,055,558
235: 3,023,936
238: 3,039,660
242: 3,047,194
3,055,559
3,058,628
245: 3,021,035
3,059,817
250: 3,053,421
251: 3,059,818
252: 3,031,109
255: 3,064,864
3,067,915
256: 3,021,036
3,033,424
3,034,687
262: 3,057,521
280: 3,024,948
282: 3,027,052
3,045,874
284: 3,940,937
285: 3,057,522
307: 3,029,002
3,049,269
308: 3,066,835
309: 3,015,421
3,027,053
312: 3,028,056
313: 3,061,150
318: Re.25,172
3,017,057
319: 3,037,674
320: 3,062,415
321: 3,062,416
3,064,865
323: 3,065,883
326: 3,059,819
327: 3,029,985
3,042,268
3,066,836
330: 3,031,110
3,034,688
332: 3,065,884
333: 3,018,927
335: 3,018,928
3,033,425
3,043,484
3,052,382
340: 3,018,022
3,059,820
341: 3,035,743
345: 3,052,383
361: 3,056,532
362: 3,027,054
364: 3,045,875
385: 3,066,837
386: 3,045,876
386.5: 3,033,426
3,070,265
387: 3,022,923
3,057,523
390: 3,049,270
391: 3,069,053
394: 3,018,023
3,018,929
3,019,947
3,024,949
3,036,743
3,036,744
3,045,877
3,048,306
3,048,307
3,049,271
3,054,536
3,055,560
3,058,629
394: 3,062,417
3,066,838
395: 3,019,948
396: 3,039,661
399: 3,053,422
400.7: 3,026,006
3,065,885
3,065,886
410: 3,018,930
411: 3,036,745
425: 3,016,170
430: 3,057,524
435: 3,065,887
440: 3,023,937
450: 3,052,384
454: 3,044,667
3,052,385
455: 3,055,561
456: 3,022,924
464: 3,070,266
472: 3,055,562
473: 3,045,878
478: 3,023,938
3,029,986
3,040,938
3,061,151
480: 3,018,931
3,024,950
3,036,746
3,051,357
3,063,602
482: 3,045,879
3,057,525
3,063,603
484: 3,042,269
3,042,270
3,048,308
3,058,630
3,062,418
3,062,419
485: 3,024,951
486: 3,032,239
488: 3,016,171
490: 3,016,172
493: 3,035,744
498: 3,018,024
3,021,037
3,050,218
500: 3,018,025
501: 3,062,420
502: 3,019,949
503: 3,040,939
505: 3,033,427
507: 3,036,747
3,058,631
513: 3,033,428
514: 3,061,152
515: 3,043,485
517: 3,022,925
3,048,309
3,052,386
518: 3,044,668
519: 3,067,916
520: 3,059,821
525: 3,032,240
3,034,689
3,063,604
529: 3,042,271
536: 3,023,939
3,045,880
539: 3,042,272
541: 3,016,173
3,029,987
3,031,111
542: 3,019,950
545: 3,029,003
3,054,537
548: 3,042,273
549: 3,050,219
566: 3,059,822
567: 3,053,423
3,058,632
3,070,267
568: 3,058,633
569: 3,029,988
570: 3,031,112
3,047,195

Class 223

1: 3,024,952
3,035,745
1.1: 3,018,932
20: 3,028,057
28: 3,058,634
34: 3,029,004
3,063,605
37: 3,055,563
39: 3,023,940
43: 3,044,669
3,052,387
46: 3,021,038
3,044,670
3,061,153
57: 3,042,274
3,050,220
3,052,388
3,052,389
3,063,606
3,070,268
65: 3,032,241
66: 3,044,671
67: 3,051,358
3,058,635
3,066,839
68: 3,028,058
3,029,989
3,033,429
69: 3,063,607
70: 3,048,310
71: 3,045,940
73: 3,051,359
3,055,564
74: 3,015,422
76: 3,019,951
3,022,926
3,066,840
77: 3,026,007
83: 3,027,055
85: 3,048,311
87: 3,032,242
3,061,154
3,064,866
88: 3,024,953
3,029,990
3,036,748
3,042,275
3,049,272
3,052,390
3,054,538
3,059,823
3,059,824
3,070,269
89: 3,039,662
3,040,941
91: 3,017,058
3,017,059
3,018,026
3,044,672
3,050,221
3,054,539
3,055,565
3,067,917
92: 3,029,005
3,032,243
3,045,881
3,069,054
95: 3,024,954
3,031,113
3,031,114
3,045,882
3,054,540
3,070,270
96: 3,047,196
3,047,197
3,048,312
3,050,222
3,054,541
3,056,533
3,061,155
98: 3,027,056
3,031,115
3,033,430
3,037,675
3,037,676
3,042,276
99: 3,022,927
102: 3,031,116
107: 3,052,391
111: 3,070,271
112: 3,031,542
113: 3,027,057

Class 224

1: 3,035,746
2: 3,044,673
4: 3,042,277
5: 3,023,941
3,028,059
3,032,244
3,033,431
3,035,747
3,038,644
3,054,543
3,055,566
3,057,526
3,064,867
3,065,888
5.1: 3,021,985
6: 3,027,058
7: 3,061,156
3,062,421
9: 3,019,952
15: 3,070,272
26: 3,021,986
28: 3,040,942
29: 3,050,223
3,062,422
32: 3,039,663
42.01: 3,061,157
42.03: 3,015,423
42.07: 3,058,636
42.1: 3,049,273
3,064,868
42.32: 3,036,749
42.34: 3,044,674
42.43: 3,019,953
42.46: 3,019,954
45: 3,026,008
3,036,750
3,053,424
3,056,534

Class 225

1: 3,062,423
2: 3,055,567
8: 3,065,889
18: 3,039,664
19: 3,034,690
25: 3,021,987
3,034,691
38: 3,050,224
39: 3,042,278
43: 3,036,751
3,062,424
44: 3,033,432
47: 3,016,174
3,031,117
3,069,055
52: 3,026,009
3,040,943
53: 3,028,060
58: 3,070,273
90: 3,045,883
93: 3,015,424
3,054,544
96: 3,051,360
97: 3,049,274
3,063,608
99: 3,028,061
100: 3,057,527
103: 3,062,425
3,063,609
106: 3,048,313

Class 226

3: 3,053,425
6: 3,051,361
10: 3,017,060
11: 3,044,675
3,051,362
19: 3,028,062
21: 3,019,955
3,040,944
22: 3,024,955
3,069,056
23: 3,051,363
28: 3,031,118
30: 3,028,063
32: 3,061,158
34: 3,024,956
36: 3,021,039
3,065,890
37: 3,057,528
39: 3,032,245
3,061,159
42: 3,047,198
43: 3,031,119
45: 3,027,059
49: 3,024,957
3,057,529
50: 3,023,942
3,029,006
3,035,748
3,045,884
51: 3,050,225
58: 3,016,175
3,021,988
3,058,637
3,061,160
59: 3,034,692
62: 3,031,120
63: 3,049,275
71: 3,044,676
74: 3,015,425
3,035,749
3,049,276
76: 3,021,989
3,028,064
3,053,426
3,058,638
3,058,639
91: 3,021,040
3,040,945
3,057,530
3,063,610
95: 3,065,891
96: 3,061,161
97: 3,032,246
3,051,364
3,065,892
108: 3,033,433
3,048,314
3,058,640
109: 3,015,426
110: 3,061,162
3,064,869
111: 3,042,279
112: 3,069,057
113: 3,018,027
114: 3,063,611
117: 3,044,677
118: 3,021,989
3,048,315
3,053,427
128: 3,066,841
130: 3,045,885
135: 3,032,280
136: 3,043,486
140: 3,038,641
149: 3,038,645
160: 3,026,010
3,044,678
152: 3,039,665
156: 3,029,991
3,067,918
157: 3,050,226
158: 3,038,646
159: 3,038,647
165: 3,052,392
167: 3,061,163
171: 3,018,934
172: 3,015,427
3,018,028
3,022,928
3,045,886
3,054,545
3,056,535
3,061,164
3,065,893
173: 3,029,007
3,032,247
177: 3,017,061
3,042,393
178: 3,026,011
180: 3,017,062
3,029,992
3,040,946
181: 3,023,943
3,057,531
184: 3,022,929
187: 3,026,012
3,069,058
188: 3,067,919
189: 3,032,248
3,067,920
190: 3,018,935
3,029,993
3,042,282
3,052,394
3,052,395
192: 3,052,396
194: 3,054,546
195: 3,050,227
196: 3,038,648
198: 3,044,547
199: 3,021,041

Class 229

1.5: 3,017,063
3,018,936
3,045,887
3,049,277
3,051,365
2.5: 3,016,176
3,016,177
3,028,065
3,033,434
3,034,693
3,040,947
3,040,948
3,040,949
3,067,921
3,067,922
3.5: 3,021,990
3,032,249
4.5: 3,064,870
3,070,274
5.5: 3,048,316
5.7: 3,019,956
3,039,666
3,053,428
3,054,548
3,063,612
6: 3,043,487
3,047,199
3,052,397
3,069,059
3,069,060
7: 3,021,991
3,033,435
7: 3,045,888
3,048,317
3,057,531
3,066,842
8: 3,016,178
8.5: 3,023,944
9: 3,051,366
9.6: 3,037,677
14: 3,015,428
3,029,008
3,031,121
3,032,250
3,034,694
3,036,752
3,043,488
3,043,489
3,045,367
3,054,549
3,055,568
3,056,536
3,058,642
3,061,165
3,061,166
3,062,426
3,062,427
3,063,613
3,065,894
3,065,895
3,067,923
3,070,275
15: 3,015,429
3,031,122
3,039,667
3,043,490
3,044,679
3,048,318
3,050,228
3,056,537
3,058,643
3,058,644
3,059,825
3,064,871
3,064,872
3,070,276
16: 3,017,064
3,019,957
3,021,042
3,021,043
3,027,060
3,027,061
3,028,066
3,031,123
3,049,278
3,050,229
3,055,569
3,055,570
17: 3,017,065
3,021,044
3,021,992
3,022,930
3,024,958
3,024,959
3,026,013
3,029,009
3,033,436
3,037,678
3,037,679
3,038,649
3,039,668
3,039,669
3,040,950
3,040,951
3,040,952
3,040,953
3,043,491
3,044,680
3,047,200
3,051,368
3,059,826
3,067,924
20: 3,048,319
3,048,320
3,052,398
22: 3,032,251
3,034,695
3,063,614
23: 3,027,062
3,029,994
3,029,995
3,040,954
3,063,615
3,063,616
3,064,874
26: 3,031,124
27: 3,039,670
3,039,671
3,040,955
3,048,321
27: 3,049,279
3,055,572
28: 3,017,066
3,034,696
3,039,672
3,047,201
3,059,828
29: 3,016,179
3,047,202
31: 3,019,958
3,027,063
3,034,697
3,036,753
3,049,280
3,054,550
3,058,645
3,062,428
32: 3,034,698
3,040,956
3,045,429
33: 3,038,650
3,063,617
34: 3,029,010
3,031,125
3,033,437
3,048,322
3,055,573
3,062,429
35: 3,037,680
3,059,829
3,067,924
3,069,061
36: 3,021,993
3,023,945
3,029,996
37: 3,016,180
3,018,937
3,021,045
3,021,994
3,024,960
3,029,997
3,032,252
3,032,253
3,032,254
3,035,750
3,040,957
3,040,958
3,040,959
3,049,281
3,053,430
3,061,167
3,062,430
3,069,062
3,070,277
38: 3,026,014
3,039,673
3,040,960
39: 3,016,181
3,018,029
3,018,030
3,021,046
3,029,998
3,035,751
3,036,754
3,037,681
3,040,961
3,047,203
3,048,323
3,050,230
3,050,231
3,051,369
3,053,431
3,057,535
3,059,830
3,061,168
40: 3,016,182
3,018,938
3,029,999
3,037,682
3,040,962
3,042,283
3,049,282
3,050,232
3,055,574
3,064,875
41: 3,026,015
3,045,889
3,047,204
3,069,063
42: 3,057,536
43: 3,024,961
3,027,064
3,040,963
3,049,283
3,057,537
3,064,876
3,069,064
44: 3,018,031
3,018,939
3,028,067
3,028,068
3,035,752
3,037,683
3,050,233

Class 229—Con.

44: 3,058,646
3,067,925
45: 3,015,430
3,015,431
3,018,940
3,019,959
3,037,684
3,040,964
3,064,877
3,069,065
46: 3,032,255
48: 3,017,067
3,066,844
51: Re.25,143
3,018,941
3,018,942
3,021,047
3,021,048
3,022,931
3,030,000
3,030,001
3,035,753
3,036,755
3,040,965
3,042,284
3,042,285
3,042,286
3,048,324
3,050,234
3,051,370
3,061,169
3,065,896
3,065,897
52: 3,015,432
3,017,068
3,018,032
3,019,960
3,030,002
3,051,126
3,043,492
3,053,432
53: 3,027,065
3,035,754
3,040,966
3,053,433
3,057,538
3,065,898
54: 3,023,946
3,027,066
3,033,438
3,034,699
3,053,434
55: 3,023,947
3,026,016
3,038,651
3,058,647
3,061,170
3,066,845
3,067,926
56: 3,023,948
3,059,831
57: 3,017,069
62: 3,017,070
3,024,962
3,047,205
3,069,666
3,070,278
62.5: 3,018,943
3,022,932
3,033,439
3,040,967
3,042,287
3,050,235
3,065,899
63: 3,019,961
3,066,846
65: 3,026,017
66: 3,030,003
3,036,756
3,045,890
3,047,206
3,048,325
3,055,575
67: 3,042,288
68: 3,039,674
3,061,171
3,061,172
3,063,618
3,063,619
3,066,847
69: 3,026,018
3,028,069
3,045,891
72: 3,026,019
3,030,004
3,043,493
3,070,279
73: 3,018,033
3,058,648
3,061,173
3,062,431
3,067,927
74: 3,028,070
76: 3,035,755
80: 3,070,280
85: 3,051,371
3,052,399
3,061,174
86: 3,027,067
3,054,551
3,057,539
87: 3,035,756
3,040,968
3,043,494
3,055,576
92: 9,032,256
93: 3,070,281

Class 230

1: 3,057,540
2: 3,035,757
3,054,552
3,056,538
3: 3,043,495
5: 3,044,681
12: 3,069,068
15: 3,024,963
21: 3,024,964
3,045,892
22: 3,049,284
24: 3,061,175
3,062,433
26: 3,070,282
30: 3,042,289
3,043,496
3,061,176
3,061,177
31: 3,040,969
3,059,832
43: 3,063,620
45: 3,033,440
3,056,539
3,064,878
47: 3,026,020
51: 3,062,434
52: 3,053,435
55: 3,058,649
56: 3,063,621
3,065,900
58: 3,021,995
3,032,257
3,044,682
3,061,178
3,065,901
67: 3,047,207
69: 3,018,944
3,019,962
3,022,933
3,024,965
3,028,071
3,037,685
3,050,236
3,054,553
3,070,283
79: 3,032,258
3,043,497
3,043,498
95: 3,030,005
3,031,127
3,042,290
3,045,893
3,047,208
3,056,540
101: 3,034,700
3,053,436
3,069,069
103: 3,022,934
3,040,970
3,061,179
114: 3,029,011
3,030,006
3,032,259
3,039,675
3,042,291
3,045,894
3,047,209
3,056,541
3,057,541
115: 3,047,210
3,069,070
116: 3,015,433
3,017,071
3,018,034
3,024,966
3,031,128
3,034,701
3,035,758
3,044,683
3,054,554
3,055,577
3,057,542
3,067,928
116: 3,070,284
3,070,285
3,070,286
117: 3,022,935
3,031,129
3,066,849
3,066,850
3,069,071
118: 3,017,072
119: 3,047,211
3,059,833
120: 3,038,652
3,045,895
122: Re.25,253
3,024,967
3,032,260
3,035,759
124: 3,040,971
125: 3,033,441
3,035,760
127: 3,019,963
3,064,879
3,069,072
128: 3,034,702
3,058,650
130: 3,044,684
131: 3,044,685
132: 3,040,972
133: 3,024,968
3,024,969
134: 3,021,049
3,051,372
3,053,437
3,055,578
3,058,651
3,059,834
3,070,287
138: 3,056,542
3,058,652
139: 3,016,183
140: 3,026,021
3,064,880
141: 3,059,835
143: 3,031,130
3,057,543
144: 3,061,180
145: 3,062,435
147: 3,044,686
148: 3,019,964
150: 3,048,326
3,066,851
152: 3,016,184
3,044,687
153: 3,066,852
156: 3,057,544
157: 3,053,438
158: 3,040,973
160: 3,066,853
162: 3,037,686
3,056,543
173: 3,039,676
182: 3,031,131
186: 3,057,545
187: 3,065,902
188: 3,043,499
3,045,896
202: 3,066,854
205: 3,040,974
3,040,975
3,053,439
3,059,836
3,066,855
206: 3,039,677
3,049,285
3,051,373
3,070,288
207: 3,022,936
3,042,292
3,047,546
209: 3,031,132
210: 3,047,212
231: 3,050,237
3,066,856
232: 3,044,688
3,045,897
3,066,857
234: 3,045,898
235: 3,035,761
238: 3,034,703
239: 3,045,899
241: 3,028,072
3,045,900
249.5: 3,039,678
254: 3,052,400
259: 3,019,965
262: 3,040,976
273: 3,044,689

Class 232

1: 3,026,022
3,070,289
4: 3,026,023
3,070,290
5: 3,036,757
3,062,436
13: 3,028,073
15: 3,016,185
3,033,442
3,034,704
16: 3,034,705
3,056,544
3,059,837
3,066,858
3,069,073
17: 3,030,007
3,042,293
3,047,213
34: 3,033,443
35: 3,017,073
3,026,024
3,026,025
3,034,706
39: 3,021,966
43.1: 3,021,050
43.2: 3,029,012
3,059,838
43.4: 3,054,555
44: 3,018,945
3,021,051
3,024,970
3,032,972
3,038,654
6: 3,031,134
3,036,758
7: 3,039,680
3,059,839
3,059,840
45: 3,059,841
57.5: 3,030,008

Class 233

7: 3,023,949
3,061,181
14: 3,047,214
15: 3,050,238
3,053,440
19: 3,052,401
3,070,291
23: 3,021,997
24: 3,050,239
26: 3,028,075
28: 3,022,937
29: 3,036,759
31: 3,047,215
3,050,240
32: 3,047,216
3,069,074
46: 3,036,760

Class 234

4: 3,043,500
3,056,545
5: 3,061,182
11: 3,021,998
16: 3,048,327
20: 3,027,068
23: 3,017,074
3,050,241
25: 3,018,946
28: 3,016,186
30: 3,018,947
32: 3,050,242
34: 3,037,687
3,069,075
35: 3,030,009
36: 3,039,679
39: 3,017,075
41: 3,033,444
45: 3,051,374
48: 3,047,217
50: 3,019,966
3,037,688
3,059,842
51: 3,049,286
53: 3,038,653
55: 3,043,501
58: 3,059,843
69: 3,033,445
3,044,690
78: 3,017,076
87: 3,021,999
3,048,328
91: 3,051,375
100: 3,063,622
103: 3,050,243
106: 3,037,689
107: 3,064,881
3,066,859
108: 3,018,035
109: 3,029,013
3,056,546
111: 3,018,036
3,024,971
112: 3,050,244
114: 3,022,000
3,024,972
3,070,292
115: Re.25,123
3,035,762
3,038,654
3,051,376
3,051,377
3,059,844
119: 3,018,037
3,064,882
123: 3,018,948
128: Re.25,304
3,017,077
3,035,763
3,037,690
3,052,402

Class 235

1: 3,023,950
3,024,973
3,049,287
3,052,403
3,052,404
3,053,441
3,057,547
3,066,860
2: 3,045,901
3,049,288
3,066,861
6: 3,031,135
3,031,136
7: 3,039,680
3,050,245
3,056,547
3,061,184
11: 3,015,434
3,047,218
12: 3,045,902
22: 3,015,435
3,017,078
3,061,185
23: 3,017,079
3,021,052
3,033,446
3,054,556
25: 3,051,378
29: 3,018,038
33: 3,070,293
42: 3,022,938
50: 3,054,557
51: 3,024,974
52: 3,034,707
54: 3,067,929
3,069,076
55: 3,051,379
3,063,623
58: 3,044,691
59: 3,022,939
60: 3,015,436
3,016,187
3,016,188
3,017,080
3,018,039
3,018,949
3,021,053
3,024,975
3,026,026
3,026,027
3,032,261
3,037,691
3,040,977
3,049,289
3,053,442
3,054,443
3,055,579
3,055,580
3,057,548
3,057,549
3,057,550
3,066,862
3,069,077
3,070,294
60.12: 3,053,444
60.13: 3,069,078
60.17: 3,061,867
60.2: 3,015,437
3,021,054
3,061,186
60.25: 3,064,883
60.3: 3,047,219
3,067,930
60.31: 3,017,081
3,021,056
3,029,014
3,030,010
3,040,978
60.4: 3,018,040
3,021,055
3,037,692
3,059,845
60.47: 3,023,951
3,042,294
60.48: 3,022,940
60.5: 3,061,187
3,063,624
60.51: 3,029,015
61: 3,018,041
3,018,950
3,019,968
3,021,057
3,021,058
3,024,976
3,024,977
3,024,978
3,024,979
3,027,069
3,028,076
3,029,016
3,030,011
3,030,012
3,034,708
3,024,709
3,036,761
3,036,762
3,036,763
3,037,693
3,038,655
3,040,979
3,042,295
3,042,296
3,043,502
3,043,503
3,044,692
3,045,903
3,047,220
3,049,290
3,050,246
3,050,247
3,053,445
3,057,551
3,059,846
3,062,437
3,063,625
3,063,626
3,065,903
3,065,904
3,067,931
3,070,295
61.1: 3,023,952
61.11: 3,017,082
3,018,951
3,019,970
3,021,059
3,022,941
3,024,982
3,024,983
3,027,071
3,027,072
3,028,081
3,029,021
3,030,014
3,031,136
3,033,448
3,033,449
3,034,711
3,036,764
3,036,765
3,037,694
3,039,681
3,039,682
3,042,299
3,043,504
3,043,505
3,044,694
3,044,695
3,045,904
3,049,291
3,051,380
3,051,381
3,051,382
3,052,405
3,052,406
3,052,407
3,052,048
3,055,582
3,055,583
3,057,552
3,059,847
3,061,188
3,061,189
3,064,886
3,064,887
3,065,905
3,066,863
3,067,933
3,067,934
3,022,945
3,069,079
61.12: 3,015,438
3,026,029
3,034,712
3,037,695
3,043,506
3,044,696
3,045,905
61.5: 3,019,969
3,028,077
3,029,017
61.5: 3,042,297
3,064,884
3,067,932
61.6: 3,016,189
3,018,042
3,026,028
3,028,078
3,028,079
3,028,080
3,029,018
3,029,019
3,029,020
3,031,135
3,033,447
3,034,710
3,038,656
3,038,657
3,044,693
3,063,627
61.7: 3,024,980
3,024,981
3,027,070
3,042,298
3,050,248
3,055,581
3,064,885
61.8: 3,030,013
61.9: 3,035,764
3,049,292
3,052,438
3,063,628
62: 3,023,953
3,042,300
63: 3,019,971
3,032,262
3,044,697
3,053,446
3,055,584
3,062,439
3,065,906
3,066,864
64.7: 3,047,221
3,069,080
69: 3,022,001
70: 3,019,973
3,022,002
3,045,906
3,047,222
3,053,447
73: 3,032,263
3,045,907
3,070,296
78: 3,034,713
3,050,249
3,051,383
3,059,848
79: 3,025,439
3,021,060
3,026,030
80: 3,024,984
82: 3,022,942
83: 3,027,073
3,033,450
3,044,698
84: 3,016,190
3,023,954
3,023,955
3,061,190
86: 3,065,907
87: 3,028,082
88: 3,042,301
3,058,653
89: 3,026,956
3,026,031
3,033,451
3,045,908
3,069,081
90: 3,042,302
91: 3,017,083
3,021,061
3,028,083
3,032,264
3,034,714
3,044,981
3,059,849
92: 3,015,440
3,016,191
3,017,084
3,019,972
3,022,003
3,022,943
3,022,944
3,022,945
3,023,957
3,024,985
3,024,986
3,027,074
3,028,084
3,033,452
3,035,765
3,036,766
3,038,658
3,039,683
3,044,699

92: 3,045,909
3,047,223
3,047,224
3,047,225
3,051,384
3,052,409
3,056,548
3,062,440
3,062,441
3,062,442
3,063,629
3,063,630
3,063,631
3,064,888
3,064,889
3,064,890
3,070,297
94: 3,016,192
3,026,032
3,030,015
95: 3,054,558
96: 3,058,654
98: 3,022,004
3,027,075
3,040,980
3,043,910
3,063,632
99: 3,037,696
3,042,303
103: 3,063,633
3,067,935
103.5: 3,029,022
3,052,410
114: 3,030,016
117: 3,017,085
3,017,086
3,018,043
3,018,952
3,022,946
3,027,076
3,030,017
3,038,659
3,039,684
3,040,982
3,056,549
3,061,191
3,064,891
3,069,082
121: 3,054,559
122: 3,017,087
125: 3,035,766
130: 3,027,077
3,049,293
3,064,892
132: 3,034,715
3,035,767
3,036,767
3,039,685
3,057,553
3,062,443
3,064,893
3,070,298
133: 3,022,947
3,031,188
3,070,299
136: 3,019,974
3,051,385
3,069,083
137: 3,018,044
3,034,716
3,036,768
3,065,908
3,069,084
138: 3,022,948
139: 3,065,909
144: 3,018,953
3,024,987
3,050,250
3,062,444
3,070,300
145: 3,017,088
3,017,089
3,024,988
3,030,018
146: 3,054,717
3,044,700
150: 3,065,423
151: 3,024,989
3,034,718
3,039,769
3,039,686
3,039,687
3,043,507
3,043,508
3,044,701
3,045,911
3,045,912
3,047,226
3,048,329
3,048,330
3,048,331
3,049,294
3,051,386
3,054,560

151: 3,063,634
3,063,635
3,067,936
3,070,301
3,070,032
152: 3,021,062
3,022,005
3,022,949
3,027,078
3,029,023
3,035,768
3,039,688
3,040,983
153: 3,016,193
3,017,090
3,017,091
3,017,092
3,018,954
3,021,063
3,022,950
3,023,958
3,029,024
3,032,265
3,033,453
3,035,769
3,036,770
3,036,771
3,037,697
3,037,698
3,040,984
3,040,985
3,042,304
3,044,702
3,047,227
3,051,387
3,058,655
3,058,656
3,063,636
154: 3,018,045
3,021,064
3,023,959
3,024,990
3,026,033
3,027,079
3,034,719
3,036,772
3,037,699
3,058,657
3,062,445
3,066,865
3,070,303
155: 3,017,093
3,018,955
3,019,975
3,021,065
3,026,034
3,026,035
3,027,080
3,032,266
3,033,454
3,034,720
3,039,689
3,045,913
3,052,411
3,064,894
156: 3,023,960
3,024,991
3,043,509
3,049,295
3,067,938
157: Re.25,120
3,015,441
3,016,194
3,017,094
3,018,956
3,019,976
3,019,977
3,026,036
3,026,037
3,027,081
3,030,019
3,036,773
3,037,700
3,039,690
3,042,305
3,043,510
3,047,228
3,048,332
3,053,449
3,058,658
3,059,850
3,061,192
3,064,895
3,067,937
3,070,304
158: 3,049,296
159: 3,017,095
3,018,957
3,028,085
3,037,701
3,047,229
160: 3,015,442
3,017,096
3,021,066

160: 3,022,006
3,028,086
3,031,139
3,033,455
3,034,721
3,055,585
3,055,586
3,057,554
161: 3,028,087
164: 3,015,443
3,015,444
3,016,195
3,018,046
3,018,958
3,019,978
3,021,067
3,021,068
3,023,961
3,027,082
3,028,088
3,028,089
3,033,456
3,034,722
3,036,774
3,048,333
3,048,334
3,050,251
3,052,412
3,056,550
3,064,896
3,069,085
165: 3,018,047
3,033,457
3,036,775
3,039,691
3,059,851
167: 3,018,959
3,029,025
3,033,458
168: 3,017,097
3,021,069
3,033,459
169: 3,030,020
170: 3,019,979
3,045,914
3,062,446
172: 3,017,098
3,019,980
3,032,267
3,043,511
3,053,450
173: 3,066,866
174: 3,014,445
3,024,992
175: 3,017,099
3,017,100
3,023,962
3,031,140
3,043,512
3,047,230
3,053,451
3,053,452
3,056,551
3,056,552
176: 3,016,196
3,017,101
3,017,102
3,017,103
3,018,048
3,018,960
3,018,961
3,019,981
3,021,070
3,022,007
3,022,951
3,023,963
3,023,964
3,023,965
3,025,037
3,040,986
3,040,987
3,043,513
3,045,915
3,047,231
3,052,413
3,055,587
3,058,659
3,061,193
3,069,086
3,070,305
177: 3,032,268
3,035,770
3,066,867
178: 3,042,306
179: 3,050,252
3,070,306
180: 3,021,071
3,026,039
3,032,269
3,033,460
3,038,660
3,048,335
3,049,297
3,051,389

180: 3,059,852
181: 3,018,962
3,023,966
3,024,994
3,030,021
3,033,461
3,043,514
3,043,515
3,045,916
3,047,232
183: 3,016,197
3,018,963
3,021,072
3,024,995
3,032,270
3,039,692
3,040,988
3,048,336
3,050,253
3,067,939
184: 3,018,049
3,027,083
3,028,090
3,028,091
3,034,723
3,035,771
3,035,772
3,039,693
3,044,703
3,044,704
3,045,917
3,051,388
3,054,561
3,063,637
185: 3,017,104
3,027,084
3,031,141
3,051,390
3,053,453
3,058,660
186: 3,017,105
3,018,964
3,042,307
3,048,337
187: 3,022,008
3,024,996
3,026,038
3,034,724
3,049,298
3,070,307
188: 3,049,299
189: 3,015,446
3,018,965
3,028,092
3,038,661
3,044,705
3,065,910
190: 3,064,897
191: 3,036,776
3,058,661
192: 3,021,073
193: 3,018,050
3,018,051
3,022,009
3,022,952
3,027,085
3,027,086
3,031,142
3,032,271
3,044,706
3,055,588
3,063,638
3,067,940
3,070,308
194: 3,017,106
3,017,107
3,017,108
3,017,109
3,017,110
3,019,982
3,019,983
3,019,984
3,021,074
3,024,997
3,024,998
3,027,087
3,031,143
3,035,773
3,039,694
3,058,662
3,065,911
3,067,941
3,070,309
195: 3,018,966
3,030,022
3,043,516
3,047,232
3,057,555
3,070,310
196: 3,024,999
3,038,652
197: 3,017,111
3,018,052
3,021,075

197: 3,022,953
3,025,000
3,026,040
3,033,462
3,051,391
3,059,853
3,064,898
3,064,899
3,065,912
3,066,868
198: 3,018,053

Class 236

1: 3,016,198
3,019,985
3,028,093
3,030,023
3,033,463
3,047,233
3,050,254
3,050,255
3,058,663
3,064,900
3: 3,056,553
10: 3,017,112
3,056,554
11: 3,061,194
12: 3,019,986
3,027,088
3,028,094
3,033,464
3,036,777
3,044,707
3,052,414
3,061,195
3,067,942
3,067,943
13: 3,019,987
3,026,041
3,030,024
3,034,725
3,037,702
3,051,392
3,053,454
3,058,664
15: 3,028,095
3,049,300
3,050,256
3,069,087
20: 3,058,665
21: 3,063,639
22: 3,029,026
34: 3,017,113
3,027,089
3,045,918
3,048,338
34.5: 3,018,054
3,057,556
3,070,311
38: 3,057,557
42: 3,067,944
44: 3,033,465
45: 3,070,312
46: 3,038,663
3,043,517
3,062,447
48: 3,061,196
49: 3,027,090
63: 3,067,945
68: 3,015,447
3,061,197
3,065,913
74: 3,050,257
80: 3,025,001
3,028,096
3,035,774
3,036,778
3,053,448
3,057,946
83: 3,069,088
87: 3,047,234
91: 3,054,562
3,059,854
92: 3,047,235
3,055,589
93: 3,038,664
3,062,448
99: 3,030,025
3,030,026
3,042,308
3,045,919
3,050,258
3,062,449
3,063,640
3,069,089
101: 3,030,027

Class 237

2: 3,051,393
9: 3,064,901
12.3: 3,026,042
14: 3,028,097

18: 3,031,144
33: 3,064,902
40: 3,028,098
51: 3,053,455
63: 3,036,779
67: 3,026,043

Class 238

4: 3,042,309
8: 3,056,555
9: 3,066,869
10: 3,052,415
14: 3,025,002
3,069,090
22: 3,063,641
23: 3,053,456
117: 3,039,695
134: 3,027,091
191: 3,050,259
244: 3,027,092
287: 3,055,590
3,062,450
315: 3,067,947
317: 3,028,099
3,044,708
321: 3,021,076
327: 3,019,988
3,027,093
3,044,709
3,044,710
3,059,855
349: 3,018,967
3,065,914
371: 3,018,055
372: 3,025,003

Class 239

2: 3,019,989
3,056,556
3: 3,017,114
3,017,115
3,051,394
4: 3,061,198
3,067,948
13: 3,055,591
3,062,451
15: 3,017,116
3,021,077
3,031,145
3,037,703
3,039,696
3,049,301
3,055,592
3,056,557
3,057,558
3,063,642
3,067,949
17: 3,022,010
3,030,028
24: 3,032,272
25: 3,030,029
3,062,452
31: 3,039,697
32: 3,033,466
33: 3,025,004
35: 3,065,915
44: 3,052,416
47: 3,028,100
52: 3,017,117
55: 3,016,199
57: 3,031,146
3,032,273
3,051,395
61: 3,017,118
3,023,967
63: 3,037,704
64: 3,039,698
65: 3,036,780
66: 3,027,094
70: 3,018,056
3,053,943
75: 3,049,302
76: 3,064,903
77: 3,037,705
3,063,644
3,069,091
81: 3,017,119
83: 3,056,558
87: 3,040,989
3,055,593
97: 3,021,078
3,022,011
3,026,044
99: 3,044,711
101: 3,039,699
102: 3,070,313
104: 3,038,665
105: 3,045,920
109: 3,061,199
113: 3,066,870
116: 3,030,030

117: 3,017,120
3,025,005
3,059,856
3,059,857
120: 3,037,706
124: 3,018,968
3,043,518
125: 3,019,990
3,023,968
126: 3,039,700
127: 3,044,712
129: 3,017,121
132: 3,034,726
3,045,921
3,065,916
133: 3,039,992
135: 3,017,122
142: 3,035,775
3,042,310
3,053,457
3,058,666
143: 3,016,200
3,026,045
3,042,311
3,062,453
146: 3,023,969
150: 3,050,260
161: 3,055,594
164: 3,016,201
167: 3,023,970
3,043,519
169: 3,034,727
179: 3,047,236
186: 3,035,776
187: 3,027,095
189: 3,043,520
190: 3,028,101
201: 3,015,448
3,018,057
3,035,777
204: 3,033,467
206: 3,019,991
3,034,728
3,035,778
3,038,666
3,063,645
208: 3,035,779
213: 3,057,559
215: 3,029,027
3,033,468
3,034,729
3,047,237
3,069,093
216: 3,053,458
222: 3,034,730
3,061,200
223: 3,026,046
3,043,521
225: 3,045,922
227: 3,055,667
229: 3,030,031
230: 3,017,123
3,019,992
3,022,012
3,033,469
3,043,522
3,043,923
3,051,396
3,070,314
232: 3,070,315
242: 3,055,595
3,063,646
252: 3,029,028
254: 3,045,924
3,066,871
257: 3,038,667
261: 3,069,094
265: 3,047,240
267: 3,033,470
273: 3,040,990
3,047,241
274: 3,033,471
3,043,523
275: 3,047,238
276: 3,067,950
280: 3,069,095
281: 3,061,201
287: 3,064,904
304: 3,027,096
3,040,991
305: 3,058,668
306: 3,021,079
3,045,925
3,056,559
308: 3,058,669
309: 3,026,047
310: 3,032,274
3,037,707
312: 3,018,969
3,049,303
3,070,316
314: 3,052,417
315: 3,042,312
3,069,096

Class 239—Con.
318: 3,018,058
3,027,097
3,032,275
3,034,731
3,037,708
3,042,313
3,049,304
3,050,261
323: 3,018,970
327: 3,032,276
333: 3,061,202
337: 3,053,459
3,061,203
338: 3,018,971
3,069,097
344: 3,069,098
346: 3,044,713
3,060,872
347: 3,042,314
350: 3,043,524
361: 3,036,781
3,055,560
383: 3,030,032
400: 3,050,262
402: 3,070,317
404: 3,028,102
3,029,029
407: 3,019,993
3,038,750
3,053,460
3,055,596
408: 3,032,277
3,033,472
411: 3,053,461
412: 3,037,709
413: 3,042,315
3,059,858
3,066,873
414: 3,040,992
415: 3,042,316
3,066,874
417: 3,015,449
3,066,875
419: 3,022,013
3,034,732
3,039,701
421: 3,015,450
422: 3,032,278
3,059,859
3,062,454
423: 3,059,860
424: 3,025,006
3,026,048
427: 3,067,951
431: 3,031,147
3,058,670
3,067,952
432: 3,051,397
3,067,953
433: 3,026,049
438: 3,022,014
444: 3,022,015
452: 3,036,782
453: 3,022,954
3,035,780
3,042,317
3,069,099
456: 3,017,124
3,022,955
457: 3,045,926
458: 3,042,318
3,045,927
3,067,954
460: Re.25,173
3,030,033
3,065,917
464: 3,032,279
3,057,560
465: 3,053,462
492: 3,054,563
500: 3,061,204
502: 3,054,564
518: 3,059,861
520: 3,029,030
521: 3,022,016
522: 3,069,100
524: 3,057,561
526: 3,037,710
530: 3,045,928
532: 3,023,971
542: 3,016,202
3,034,733
548: 3,036,783
549: 3,039,702
552: 3,062,455
554: 3,038,668
559: 3,031,148
566: 3,045,929
571: 3,048,339
575: 3,065,918
576: 3,042,319
579: 3,033,473
579: 3,045,930
3,047,239
584: 3,053,463
587: 3,067,955
590: 3,062,456
3,064,905
598: 3,045,931
601: 3,045,932
602: 3,027,098

Class 240

1: 3,023,304
3,029,334
3,043,947
3,043,948
1.2: 3,015,717
3,026,408
3,032,641
3,047,716
3,066,217
1.3: 3,016,453
3,021,422
3,026,409
3,049,611
1.4: 3,065,332
2: 3,017,497
3,019,331
3,023,305
3,023,306
3,038,060
3,042,795
3,057,991
3,059,102
3,064,121
2.1: 3,040,168
3,068,354
2.14: 3,017,498
3,049,612
3: 3,020,390
3,033,978
3,065,333
3,069,536
3.1: 3,038,061
4: 3,065,334
4.1: 3,059,103
4.2: 3,032,642
3,035,160
6.4: 3,017,499
3,042,796
3,060,308
3,067,322
6.45: 3,032,643
6.46: 3,045,111
7.1: 3,020,391
3,032,644
3,049,613
3,054,888
3,062,951
3,070,687
7.35: 3,020,392
3,035,161
7.5: 3,038,062
3,043,949
3,064,122
8.1: 3,032,645
8.16: 3,015,718
3,065,335
3,066,218
8.2: 3,017,500
3,017,501
3,032,646
8.3: 3,038,063
3,045,388
3,059,104
3,059,105
9: 3,019,332
3,033,979
3,052,794
3,065,336
3,067,323
10: 3,018,362
3,025,389
3,035,162
3,036,206
3,038,064
3,041,446
3,048,694
3,050,619
3,061,715
10.1: 3,028,482
3,035,163
3,056,019
10.61: 3,067,324
10.63: 3,015,719
3,030,497
3,053,978
10.65: 3,032,647
3,046,389
3,057,992
3,065,337
10.68: 3,017,502
11.2: 3,027,450
11.3: 3,051,831
11.4: 3,020,393
3,026,410
3,035,164
3,040,169
25: 3,015,720
3,032,648
3,043,950
3,050,620
3,062,952
3,062,953
3,064,123
3,064,124
3,065,338
3,065,339
3,067,325
41: 3,018,366
3,020,394
41.1: 3,032,649
41.25: 3,056,020
41.3: 3,049,614
3,064,125
41.35: 3,028,483
3,065,341
3,070,688
41.5: 3,025,390
3,065,340
3,067,326
41.6: 3,040,993
3,050,621
46.03: 3,016,454
3,062,954
46.51: 3,056,021
47: 3,033,980
3,066,219
49: 3,049,615
51.11: 3,015,721
3,018,363
3,019,333
3,025,391
3,027,451
3,033,981
3,040,170
3,040,171
3,043,951
3,060,309
3,060,310
3,065,343
3,069,537
3,070,689
59: 3,042,797
3,069,538
60: 3,069,539
64: 3,053,979
73: 3,022,416
3,036,207
3,061,716
78: 3,019,334
3,024,355
3,035,165
3,037,110
3,040,172
3,042,798
3,057,993
3,059,106
81: 3,025,392
3,035,166
3,041,447
3,057,994
3,061,717
90: 3,018,364
3,018,365
3,036,208
3,053,980
3,065,342
102: 3,033,982
3,036,209
103: 3,040,994
106: 3,020,395
3,020,396
3,038,065
3,049,616
108: 3,022,417
3,023,307
123: 3,030,498
131: 3,070,690
138: 3,061,718
147: 3,024,356
3,027,452
3,029,355
3,069,540
3,070,541
3,070,691
148: 3,016,455

Class 241

1: 3,062,457
3,067,956
5: 3,028,103
3,039,703
10: 3,038,669
14: 3,049,305
3,057,562
3,070,318
19: 3,062,458
23: 3,067,957
24: 3,016,203
3,022,956
25: 3,015,720
3,032,648
3,043,950
3,050,620
3,062,952
3,062,953
3,064,123
3,064,124
3,065,338
3,065,339
3,067,325
41: 3,018,366
3,020,394
34: 3,050,264
36: 3,034,734
37: 3,057,563
3,058,672
39: 3,058,673
3,058,674
41: 3,018,972
43: 3,062,459
46: 3,017,125
3,026,050
3,035,781
3,043,626
3,048,340
3,049,306
3,054,565
49: 3,055,597
51: 3,063,647
52: 3,032,289
55: 3,067,958
56: 3,037,712
57: 3,055,598
58: 3,044,714
60: 3,061,206
69: 3,021,080
71: 3,064,906
74: 3,018,060
77: 3,017,126
78: 3,027,100
3,027,101
79: 3,040,995
89: 3,030,035
3,035,782
91: 3,021,081
3,057,564
92: 3,032,281
3,061,207
3,062,460
3,069,101
98: 3,027,102
3,062,461
100.5: 3,025,007
3,044,715
101: 3,033,474
3,037,713
103: 3,044,716
107: 3,050,265
111: 3,045,933
117: 3,061,208
120: 3,038,671
121: 3,044,717
132: 3,027,103
136: 3,051,398
152: 3,059,862
155: 3,033,475
157: 3,043,321
159: 3,039,704
3,066,876
161: 3,065,919
169: 3,055,599
171: 3,047,242
172: 3,015,451
3,018,061
3,055,600
175: 3,021,082
3,030,036
3,042,322
176: 3,028,104
3,051,399
182: 3,058,675
183: 3,022,017
3,042,323
184: 3,027,105
3,034,735
3,061,209
185: 3,038,672
186: 3,030,037
3,051,400
3,058,676
188: 3,028,105
3,028,106
3,047,243
189: 3,044,718
3,061,210
3,067,959
190: 3,037,714
191: 3,066,877
194: 3,015,452
3,044,719
195: 3,069,102
197: 3,022,018
3,045,934
200: 3,016,204
213: 3,026,051
219: 3,033,476
222: 3,058,677
232: 3,064,907
235: 3,063,648
244: 3,057,565
245: 3,038,673
251: 3,040,996
3,069,103
252: 3,064,908
255: 3,023,972
3,049,307
3,067,960
256: 3,032,282
257: 3,017,127
3,051,401
260: 3,040,997
3,058,678
275: 3,021,083
3,023,973
3,044,720
3,058,679
277: 3,066,878
278: 3,047,244
290: 3,019,994
293: 3,064,909
294: 3,027,106
3,059,863
3,065,920
299: Re.25,233
3,063,649

Class 242

1: 3,048,341
3,063,650
1.1: Re.25,281
3,025,008
3,040,998
3,052,418
3,055,601
3,061,211
3,061,212
2: 3,043,527
4: 3,030,038
3,039,705
3,050,266
3,054,566
3,058,680
3,061,213
7: 3,026,052
3,028,107
3,028,108
3,052,419
3,057,566
3,066,879
9: 3,022,019
3,039,706
3,039,707
3,047,245
3,047,246
3,061,214
13: 3,044,721
18: 3,016,205
3,018,973
3,022,020
3,028,109
3,030,039
3,034,736
3,037,715
3,037,716
3,042,324
3,043,528
3,051,402
3,054,567
3,055,602
3,064,910
3,064,911
3,065,921
3,069,104
3,070,319
18.1: 3,045,935
25: 3,026,053
3,038,674
3,051,403
3,054,568
3,064,912
26.3: 3,033,477
3,039,708
3,042,325
3,042,326
3,061,215
3,067,961
27.1: 3,042,327
35.5: 3,018,974
3,036,784
3,055,603
3,062,462
3,067,962
3,070,320
35.6: 3,017,128
3,017,129
3,023,974
3,026,054
3,027,107
3,029,031
3,030,040
3,031,149
3,033,478
3,034,737
3,035,783
3,042,328
3,043,529
3,055,604
3,059,865
3,059,866
3,059,867
3,061,216
39: 3,044,722
43: 3,040,999
3,048,342
43.1: 3,043,530
43.2: 3,022,021
3,053,464
3,059,868
45: 3,028,110
3,031,150
3,035,784
3,047,247
3,048,343
3,049,308
3,054,569
3,059,869
46.2: 3,036,785
46.3: 3,052,420
46.4: 3,038,675
46.5: 3,028,055
47.09: 3,017,130
3,044,723
3,058,681
47.1: 3,050,267
48: 3,042,329
50: 3,018,062
54: 3,016,206
3,018,975
3,019,995
3,025,009
3,027,108
3,031,151
3,033,479
3,045,936
54.4: Re.25,267
3,031,996
3,042,330
55: 3,044,724
3,048,344
55.01: 3,049,309
55.1: 3,021,084
3,057,567
55.11: 3,039,710
3,053,465
3,058,683
3,062,463
55.12: 3,016,207
3,016,208
3,016,209
3,016,210
3,016,211
3,018,063
3,018,976
3,023,975
3,026,056
3,026,057
3,027,109
3,028,111
3,029,032
3,029,033
3,029,034
3,032,284
3,032,285
3,033,480
3,038,678
3,039,711
3,041,000
3,041,725
3,045,937
3,045,938
3,051,405
3,051,406
3,052,421
3,057,568
3,057,569
3,057,570
3,059,870
3,061,219
3,061,464
3,063,651
3,070,321
55.13: 3,025,010
3,025,011
3,027,110
3,027,111
3,027,112
3,035,786
55.13: 3,036,786
3,042,331
3,043,531
3,059,871
3,065,922
3,066,880
3,070,322
55.14: 3,015,453
3,032,286
3,064,913
55.17: 3,032,287
55.19: 3,025,012
3,030,041
3,064,914
55.2: 3,022,957
3,032,283
3,034,738
3,038,676
3,051,404
3,061,217
3,067,963
3,069,105
55.3: 3,035,785
3,037,717
3,038,677
3,039,709
3,049,310
3,058,682
3,061,218
55.42: 3,019,997
55.53: 3,017,131
3,029,035
3,037,718
3,050,268
3,066,881
55.54: 3,028,112
3,041,001
56: 3,030,042
3,035,787
3,039,712
3,044,726
3,045,939
3,047,248
3,049,311
3,062,465
3,066,882
56.1: 3,018,064
3,049,312
3,058,684
56.4: 3,055,605
56.6: 3,055,853
56.7: 3,058,685
56.8: 3,019,998
3,039,713
57.1: 3,043,532
58: 3,021,022
58.2: 3,015,454
3,070,323
58.3: 3,025,013
3,030,043
3,042,332
3,062,466
3,062,467
3,065,923
58.4: 3,061,220
58.6: 3,057,571
60: 3,055,606
64: 3,056,562
65: 3,069,106
66: 3,045,940
3,057,572
3,061,221
3,064,915
67.1: 3,033,481
67.2: 3,029,036
67.3: 3,025,014
3,044,727
68.2: 3,038,679
68.3: 3,038,788
3,053,466
3,058,686
3,064,916
68.4: 3,034,739
3,038,680
3,043,533
3,052,422
68.5: 3,025,015
3,044,728
71: 3,057,573
3,066,884
71.1: 3,037,719
3,043,534
71.2: 3,030,044
3,065,924
71.3: 3,061,222
71.4: 3,061,223
71.8: 3,022,958
3,045,941
3,050,269
3,050,270
3,056,563
3,063,652
3,064,917

71. 9: 3, 017, 132
3, 017, 133
3, 025, 016
72: 3, 016, 212
3, 018, 977
3, 022, 959
3, 029, 037
3, 032, 288
3, 048, 345
3, 051, 407
3, 053, 467
72. 1: 3, 033, 482
3, 034, 740
3, 061, 224
3, 067, 964
74: 3, 021, 085
3, 030, 045
3, 033, 483
3, 062, 468
74. 1: 3, 023, 113
75. 1: 3, 061, 225
75. 3: 3, 022, 960
3, 025, 017
3, 048, 346
3, 061, 226
75. 4: 3, 036, 787
3, 051, 408
75. 41: 3, 029, 038
75. 42: 3, 023, 976
3, 030, 714
3, 061, 227
75. 43: 3, 047, 249
3, 057, 574
75. 44: 3, 049, 313
75. 5: 3, 042, 333
75. 51: 3, 018, 978
3, 019, 999
3, 031, 152
3, 061, 228
75. 53: 3, 043, 535
3, 053, 468
76: 3, 025, 018
77: 3, 047, 250
77. 1: 3, 062, 469
78. 1: 3, 044, 729
3, 064, 918
78. 4: 3, 028, 114
3, 062, 470
78. 6: 3, 015, 455
3, 038, 681
78. 7: 3, 048, 347
78. 8: 3, 052, 423
79: 3, 032, 289
3, 042, 334
3, 049, 314
3, 069, 107
80: 3, 021, 086
81: 3, 020, 000
3, 042, 335
3, 062, 471
82: 3, 023, 977
3, 025, 019
3, 029, 039
3, 033, 484
3, 039, 715
3, 049, 315
3, 062, 472
3, 064, 919
3, 069, 108
83: 3, 042, 336
3, 054, 570
3, 061, 229
84. 2: 3, 026, 058
3, 028, 115
3, 029, 040
3, 033, 485
3, 034, 741
3, 036, 788
3, 038, 682
3, 039, 716
3, 041, 002
3, 044, 730
3, 049, 316
3, 052, 424
3, 053, 469
3, 054, 571
3, 057, 575
3, 059, 872
3, 059, 873
3, 061, 230
3, 061, 231
3, 062, 473
3, 062, 474
3, 069, 109
84. 21: 3, 018, 979
3, 022, 961
3, 027, 113
3, 032, 290
3, 033, 486
3, 036, 789
3, 045, 942
3, 055, 607
84. 4: 3, 067, 965

84. 43: 3, 045, 943
84. 44: 3, 017, 134
84. 45: 3, 025, 020
3, 027, 114
84. 5: 3, 023, 978
3, 026, 059
3, 041, 003
84. 51: 3, 050, 271
84. 53: 3, 030, 046
3, 061, 232
84. 54: 3, 017, 135
3, 051, 409
84. 8: 3, 044, 731
3, 053, 470
85. 1: 3, 021, 087
3, 027, 115
3, 033, 487
3, 042, 337
3, 062, 475
86: 3, 050, 272
3, 053, 471
86. 5: 3, 018, 980
3, 027, 116
3, 028, 116
3, 029, 041
3, 034, 742
3, 036, 790
3, 048, 348
3, 067, 966
86. 51: 3, 022, 023
3, 061, 233
86. 52: 3, 050, 273
86. 7: 3, 054, 572
86. 8: 3, 021, 088
94: 3, 030, 047
96: 3, 044, 732
3, 053, 472
3, 062, 476
100: 3, 031, 410
100. 1: 3, 062, 477
105: 3, 052, 425
107: 3, 021, 091
3, 032, 291
3, 036, 791
3, 062, 478
107. 1: 3, 061, 234
107. 2: 3, 020, 001
3, 042, 338
107. 3: 3, 021, 089
3, 041, 004
3, 049, 317
3, 052, 426
107. 4: 3, 018, 065
3, 042, 339
3, 058, 687
3, 064, 920
3, 066, 885
107. 5: 3, 033, 488
3, 054, 573
3, 062, 479
3, 065, 925
107. 7: 3, 021, 090
3, 039, 717
110. 1: 3, 022, 024
3, 026, 060
3, 064, 921
115: 3, 058, 688
116: 3, 041, 005
118. 2: 3, 036, 792
3, 045, 944
118. 32: 3, 033, 489
3, 034, 743
3, 045, 945
118. 4: 3, 025, 021
118. 6: 3, 036, 793
3, 057, 576
118. 61: 3, 022, 962
125. 1: 3, 051, 411
125. 2: 3, 032, 292
128: 3, 018, 066
3, 021, 092
3, 041, 006
3, 043, 536
3, 043, 537
3, 057, 577
3, 058, 689
3, 061, 235
3, 070, 325
129: 3, 017, 136
3, 028, 117
3, 054, 574
3, 054, 575
129. 2: 3, 051, 412
129. 5: 3, 026, 061
129. 6: 3, 026, 062
3, 069, 110
129. 7: 3, 055, 608
3, 065, 926
129. 8: 3, 044, 733
3, 059, 864
130: 3, 041, 007
3, 045, 946
3, 048, 349

130. 1: 3, 055, 609
130. 2: 3, 030, 048
130. 4: 3, 066, 886
131: 3, 042, 340
3, 055, 610
134: 3, 021, 093
137: 3, 018, 067
137. 1: 3, 021, 094
149: 3, 053, 473
150: 3, 053, 474
154: 3, 062, 480
155: 3, 022, 025
3, 023, 979
3, 026, 063
3, 034, 744
3, 037, 720
3, 041, 008
156: 3, 026, 064
3, 032, 293
156. 1: 3, 028, 118
156. 2: 3, 057, 578
157: 3, 032, 294
3, 042, 341
3, 049, 318
158: 3, 031, 153
158. 4: 3, 061, 236
3, 061, 237
158. 5: 3, 059, 874
159: 3, 058, 690
163: 3, 061, 238
165: 3, 062, 481
175: 3, 064, 922

Class 243

16: 3, 053, 475
3, 055, 611
3, 055, 612
3, 069, 111
35: 3, 050, 875
39: 3, 054, 576

Class 244

1: 3, 030, 049
3, 031, 154
3, 034, 745
3, 048, 350
3, 048, 351
3, 053, 476
3, 057, 579
3, 057, 580
3, 061, 239
2: 3, 015, 456
3, 017, 137
3, 029, 042
3, 049, 319
3, 056, 564
3, 058, 691
3, 065, 927
3, 070, 326
3: 3, 017, 138
3, 030, 050
3, 058, 692
4: 3, 021, 095
3, 023, 980
3, 039, 718
3, 066, 887
7: 3, 025, 022
3, 029, 043
3, 035, 789
3, 037, 721
3, 039, 719
3, 050, 274
3, 059, 876
3, 066, 888
10: 3, 065, 928
12: 3, 017, 139
3, 023, 981
3, 026, 065
3, 026, 066
3, 029, 044
3, 029, 045
3, 031, 155
3, 033, 490
3, 035, 790
3, 035, 791
3, 036, 794
3, 038, 683
3, 041, 009
3, 041, 010
3, 045, 947
3, 045, 948
3, 045, 949
3, 047, 251
3, 049, 320
3, 051, 413
3, 051, 414
3, 053, 477
3, 055, 613
3, 056, 565
3, 064, 923
3, 065, 929
3, 066, 889

12: 3, 067, 967
3, 070, 327
14: 3, 015, 457
3, 018, 981
3, 021, 096
3, 025, 023
3, 025, 024
3, 027, 117
3, 028, 119
3, 041, 011
3, 048, 352
3, 053, 478
3, 053, 479
3, 063, 654
3, 064, 924
3, 065, 930
3, 065, 931
3, 069, 112
3, 069, 113
15: 3, 021, 140
3, 018, 068
3, 018, 982
3, 018, 983
3, 020, 002
3, 020, 003
3, 022, 963
3, 027, 118
3, 028, 120
3, 031, 156
3, 054, 577
3, 055, 614
3, 055, 615
3, 056, 566
3, 062, 482
3, 065, 932
3, 066, 890
17. 11: 3, 029, 047
3, 034, 746
3, 038, 684
3, 045, 950
3, 050, 275
3, 065, 933
17. 13: 3, 037, 722
3, 050, 276
3, 053, 480
3, 061, 240
17. 17: 3, 038, 685
3, 053, 481
17. 19: 3, 018, 984
3, 029, 048
3, 049, 321
3, 059, 877
17. 21: 3, 065, 934
17. 23: 3, 041, 012
3, 064, 925
17. 27: 3, 050, 277
23: 3, 022, 026
3, 028, 121
3, 030, 051
3, 033, 491
3, 033, 492
3, 033, 493
3, 034, 747
3, 035, 792
3, 037, 723
3, 042, 342
3, 043, 538
3, 045, 951
3, 048, 353
3, 051, 415
3, 053, 482
3, 054, 579
3, 058, 693
3, 059, 878
3, 061, 241
3, 061, 242
3, 061, 243
3, 063, 655
3, 065, 935
3, 065, 936
3, 066, 891
3, 070, 328
29: 3, 053, 483
31: 3, 023, 982
8, 041, 013
3, 047, 252
3, 055, 616
3, 058, 694
3, 063, 656
3, 063, 657
3, 064, 926
3, 069, 114
32: 3, 018, 069
33: 3, 053, 952
35: 3, 047, 253
42: 3, 016, 213
3, 026, 067
3, 041, 014
3, 054, 579
3, 058, 695
3, 058, 696
3, 061, 244
3, 062, 483
3, 063, 658

42: 3, 064, 927
3, 069, 115
43: 3, 053, 484
46: 3, 018, 985
3, 023, 983
3, 023, 984
3, 028, 122
3, 063, 659
3, 064, 928
3, 065, 937
3, 065, 938
48: 3, 028, 123
49: 3, 063, 660
50: 3, 018, 986
3, 034, 748
3, 035, 793
52: 3, 026, 068
3, 031, 157
3, 041, 015
3, 045, 953
3, 047, 254
3, 057, 581
3, 070, 329
53: 3, 032, 295
3, 062, 484
3, 066, 892
54: 3, 020, 004
3, 028, 124
3, 033, 494
3, 041, 016
3, 059, 879
3, 063, 661
55: 3, 047, 255
56: 3, 057, 582
58: 3, 069, 116
62: 3, 025, 025
63: 3, 016, 214
3, 020, 005
3, 022, 027
3, 028, 125
3, 035, 794
3, 041, 017
3, 062, 485
73: 3, 066, 893
74: 3, 030, 720
3, 067, 968
75: 3, 018, 987
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3, 030, 052
3, 069, 117
76: 3, 017, 141
3, 022, 964
3, 027, 119
3, 027, 120
3, 033, 495
3, 042, 343
3, 042, 344
3, 043, 539
3, 045, 954
3, 065, 599
3, 065, 939
3, 066, 894
3, 070, 330
77: 3, 015, 458
3, 015, 459
3, 017, 142
3, 018, 070
3, 018, 071
3, 018, 072
3, 018, 988
3, 021, 097
3, 023, 985
3, 030, 053
3, 030, 054
3, 031, 158
3, 033, 496
3, 035, 795
3, 037, 724
3, 037, 725
3, 038, 686
3, 042, 345
3, 052, 427
3, 052, 428
3, 053, 485
3, 053, 486
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3, 054, 580
3, 054, 581
3, 055, 617
3, 057, 583
3, 057, 584
3, 058, 697
3, 058, 698
3, 059, 880
3, 059, 881
3, 062, 486
3, 062, 487
3, 063, 662

77: 3, 064, 929
3, 064, 930
3, 067, 969
3, 070, 331
3, 070, 332
3, 070, 333
78: 3, 027, 121
3, 043, 541
3, 045, 956
3, 063, 663
79: 3, 015, 460
3, 051, 417
3, 066, 895
80: 3, 032, 296
81: 3, 020, 007
83: 3, 016, 215
3, 028, 126
3, 041, 018
3, 044, 735
3, 047, 973
3, 051, 418
3, 057, 585
3, 058, 701
3, 067, 970
85: 3, 020, 008
3, 047, 257
87: 3, 025, 026
3, 055, 618
90: 3, 022, 965
3, 048, 354
3, 070, 334
91: 3, 025, 027
96: 3, 070, 335
99: 3, 041, 019
102: 3, 017, 143
3, 020, 009
3, 032, 297
3, 038, 687
3, 041, 020
103: 3, 026, 069
3, 027, 122
3, 052, 429
3, 056, 567
3, 070, 336
104: 3, 042, 345
3, 054, 582
3, 057, 586
105: 3, 029, 046
110: 3, 017, 144
3, 020, 010
3, 026, 127
3, 029, 049
3, 033, 497
3, 033, 498
3, 034, 749
3, 045, 958
3, 052, 430
3, 057, 587
3, 058, 702
3, 058, 703
3, 069, 118
111: 3, 017, 145
3, 018, 073
3, 027, 123
3, 044, 736
113: 3, 036, 795
3, 057, 971
114: 3, 017, 146
3, 023, 986
3, 033, 499
3, 037, 726
3, 037, 727
3, 061, 245
3, 066, 896
115: 3, 054, 583
117: 3, 015, 461
3, 028, 128
3, 028, 129
3, 052, 431
118: 3, 028, 130
119: 3, 032, 298
3, 048, 355
3, 058, 704
122: 3, 015, 462
3, 027, 124
3, 027, 125
3, 032, 299
3, 053, 795
3, 036, 796
3, 052, 432
3, 055, 619
129: 3, 048, 356
130: 3, 053, 488
3, 065, 940
3, 069, 119
134: 3, 042, 346
135: 3, 026, 070
3, 032, 300
3, 035, 797
3, 039, 721
3, 043, 542
3, 045, 957
3, 063, 664

135: 3, 061, 246
3, 067, 972
136: 3, 061, 247
137: 3, 026, 071
3, 036, 797
3, 047, 258
3, 051, 419
138: 3, 016, 216
3, 016, 217
3, 017, 147
3, 032, 301
3, 032, 302
3, 047, 259
3, 050, 278
3, 057, 589
3, 061, 248
3, 061, 249
139: 3, 051, 420
3, 054, 584
140: 3, 047, 973
141: 3, 020, 011
3, 027, 126
3, 036, 798
3, 036, 799
3, 042, 347
142: 3, 055, 621
145: 3, 035, 798
147: 3, 015, 463
3, 018, 074
3, 041, 021
3, 047, 260
3, 066, 568
148: 3, 016, 218
3, 026, 072
3, 029, 050
149: 3, 032, 303
3, 052, 433
150: 3, 034, 750
3, 047, 261
152: 3, 041, 022
3, 043, 543
3, 049, 322
153: 3, 031, 075
3, 026, 073
3, 039, 722
3, 055, 622
154: 3, 022, 966
3, 022, 967
155: 3, 023, 987
3, 023, 988
3, 034, 751
3, 044, 737
3, 052, 434
3, 062, 488

Class 245

1: 3, 069, 120
5: 3, 066, 897
6: 3, 043, 544
3, 069, 121
11: 3, 050, 279

Class 246

2: 3, 016, 456
3, 024, 357
4: 3, 060, 311
5: 3, 015, 722
3, 064, 126
33: 3, 054, 589
3, 069, 542
34: 3, 015, 723
3, 038, 066
35: 3, 045, 390
41: 3, 042, 799
63: 3, 041, 448
3, 045, 112
3, 046, 391
125: 3, 038, 991
130: 3, 025, 393
3, 035, 167
3, 037, 111
3, 046, 392
3, 046, 393
3, 060, 312
134: 3, 054, 890
169: Re.25,159
3, 016, 457
3, 021, 423
3, 028, 484
3, 059, 107
182: 3, 015, 724
3, 018, 367
3, 018, 368
3, 041, 449
3, 043, 952
3, 046, 394
3, 054, 891
3, 054, 892
3, 054, 893
3, 056, 022
231: 3, 030, 499

Class 246—Con.

246: 3,033,983
247: 3,015,725
251: 3,028,485
3,054,894
258: 3,015,464
401: 3,051,421
415: 3,017,503
441: 3,026,074
453: 3,042,348
468: 3,022,968

Class 248

4: 3,018,989
3,025,028
3,030,055
3,032,304
3,033,500
3,039,723
3,039,724
3,053,489
3,061,250
5: 3,042,349
3,056,569
8: 3,052,435
9: 3,018,990
13: 3,022,969
14: 3,028,131
15: 3,035,799
16: 3,020,012
3,021,099
3,041,023
17: 3,053,490
18: 3,037,728
20: 3,030,056
3,039,725
3,058,705
3,059,882
3,063,664
3,063,665
22: 3,051,991
23: 3,021,100
3,022,028
3,066,898
26: 3,065,941
27: 3,061,251
3,062,489
3,065,942
3,067,974
27.8: 3,058,706
28: 3,020,013
3,031,159
3,049,323
3,052,436
29: 3,030,057
3,057,590
31: 3,063,666
33: 3,029,051
3,066,899
35: 3,017,148
3,033,501
3,049,324
37: 3,065,943
37.3: 3,018,076
37.6: Re.25,196
38: 3,033,502
3,033,503
39: 3,017,149
40: 3,050,280
3,051,422
41: 3,022,970
3,036,800
42: 3,033,504
3,047,262
43: 3,018,077
3,041,024
3,044,738
3,056,570
44: 3,021,101
3,025,029
3,028,132
3,033,505
3,038,688
3,038,689
3,052,437
45: 3,017,150
3,042,350
3,051,423
46: 3,036,707
47: 3,045,959
48: 3,020,014
3,026,075
48.2: 3,022,029
3,053,491
49: 3,021,102
3,026,076
3,042,351
3,043,545
3,048,358
3,059,883
54: 3,034,752
3,048,359
54: 3,061,252
55: 3,016,219
3,027,127
56: 3,018,078
57: 3,021,103
58: 3,022,030
3,022,971
3,031,160
3,033,506
3,044,739
3,049,325
3,052,438
59: 3,034,753
3,049,326
61: 3,055,623
62: 3,052,305
3,051,424
63: 3,026,077
68: 3,022,972
3,023,989
3,035,800
3,042,352
3,059,884
70: 3,023,990
71: 3,037,729
72: 3,036,801
3,047,263
73: 3,066,900
74: 3,015,465
3,016,220
3,025,030
3,027,128
3,041,025
3,042,353
3,054,585
3,054,586
3,054,587
3,061,253
3,061,254
75: 3,056,571
98: 3,041,026
102: 3,016,221
3,058,708
3,065,944
106: 3,028,133
108: 3,062,490
116: 3,062,491
117: 3,045,960
117.1: 3,059,885
3,062,492
117.2: 3,052,439
3,054,588
117.7: 3,027,129
119: 3,018,079
3,022,031
3,035,801
3,041,027
3,041,028
3,052,440
3,059,886
3,061,255
120: 3,016,222
3,017,151
3,026,078
3,029,052
3,036,802
3,039,726
3,041,029
3,053,492
3,055,624
3,058,709
3,059,887
123: 3,020,015
124: 3,044,740
3,058,710
125: 3,026,079
129: 3,041,030
141: 3,052,441
146: 3,032,306
147: 3,064,931
148: 3,017,152
149: 3,018,134
150: 3,062,493
3,063,667
155.3: 3,038,690
156: 3,058,711
158: 3,015,466
3,034,754
3,041,031
3,062,494
161: 3,059,888
163: 3,053,493
3,061,256
166: 3,057,591
168: 3,051,425
170: 3,041,032
171: 3,064,932
180: 3,018,992
183: 3,020,016
3,059,889
185: 3,054,589
187: 3,029,053
189: 3,017,153
193: 3,061,257
194: 3,016,223
3,032,307
201: 3,033,507
3,034,755
3,037,730
3,065,945
205: 3,016,224
3,017,154
3,022,032
3,023,991
3,030,058
3,037,731
3,042,354
3,047,264
3,051,426
3,058,712
3,062,495
3,066,901
3,070,337
3,070,338
206: 3,020,017
210: 3,052,442
211: 3,029,054
215: 3,043,546
216: 3,067,975
220.6: 3,018,993
222: 3,021,104
3,049,327
223: 3,021,105
3,022,973
3,030,059
3,031,161
3,034,756
3,036,803
3,037,732
3,037,733
3,045,961
3,056,572
3,061,258
3,066,902
3,069,122
3,070,339
224: 3,051,427
225: 3,045,962
226: 3,015,467
3,021,106
3,051,428
3,051,429
228: 3,018,080
3,029,055
3,036,804
3,053,494
3,058,713
229: 3,035,802
230: 3,015,468
3,016,225
3,018,081
3,054,590
3,064,933
235: 3,017,155
3,034,757
237: 3,028,135
243: 3,029,056
245: 3,039,727
248: 3,041,033
251: 3,023,992
3,026,080
3,034,758
265: 3,030,060
274: 3,061,259
278: 3,018,994
279: 3,063,668
284: 3,041,034
3,070,340
286: 3,023,506
293: 3,028,136
294: 3,018,995
300: 3,022,033
3,031,162
3,038,714
3,066,903
304: 3,063,669
309: 3,027,130
313: 3,035,805
3,053,495
316: 3,018,996
3,029,057
3,039,728
317: 3,043,547
3,065,946
320: 3,035,804
327: 3,045,548
328: 3,042,355
329: 3,032,308
337: 3,048,360
339: 3,055,625
342: 3,022,034
3,041,035
3,066,904
343: 3,018,082
3,018,083
3,028,137
3,039,729
3,051,430
346: 3,032,309
3,039,730
3,069,123
349: 3,067,976
350: 3,029,058
351: 3,043,549
354: Re.25,225
3,022,974
3,030,061
3,035,805
3,039,731
3,049,328
3,051,431
3,055,626
356: 3,033,509
357: 3,070,341
358: 3,023,993
3,025,031
3,028,138
3,031,163
3,037,734
3,057,592
3,057,593
3,063,670
3,066,905
361: 3,030,062
3,035,806
3,043,550
3,065,947
363: 3,042,356
373: 3,031,164
3,036,805
376: 3,021,107
3,070,342
379: 3,070,343
382: 3,053,496
393: 3,034,759
3,036,806
3,055,627
394: Re.25,293
3,033,510
3,037,735
3,049,329
395: 3,022,035
399: 3,025,032
3,034,591
3,059,890
3,061,260
3,061,261
3,066,906
402: 3,022,036
404: 3,039,732
3,043,551
3,069,124
409: 3,058,715
3,064,934
417: 3,055,628
419: 3,049,330
420: 3,022,975
3,066,907
421: 3,022,037
3,030,511
429: 3,027,131
3,037,736
3,043,552
430: 3,022,976
3,052,443
439: 3,061,262

Class 250

2: 3,020,397
3,028,486
3,029,336
6: 3,020,398
3,023,308
3,030,500
3,032,650
3,036,210
8: 3,018,369
3,020,399
3,028,487
13: 3,027,453
3,030,501
3,038,067
3,038,068
14: 3,032,651
3,035,168
15: 3,018,370
3,028,488
3,028,489
3,035,169
16: 3,017,504
3,020,400
17: 3,022,418
3,023,509
3,024,358
3,030,502
3,037,112
20: 3,015,726
3,015,727
3,015,728
3,017,505
20: 3,017,506
3,017,507
3,017,508
3,018,371
3,018,372
3,018,373
3,019,335
3,020,401
3,020,402
3,020,403
3,020,404
3,020,405
3,021,424
3,022,419
3,022,420
3,022,421
3,022,422
3,023,310
3,025,396
3,028,490
3,032,653
3,032,654
3,032,655
3,036,214
3,036,215
3,037,115
3,045,116
3,046,396
3,049,617
3,052,795
3,059,111
3,060,313
3,067,327
3,068,355
3,070,692
48: 3,037,116
49.5: 3,017,509
3,028,491
3,030,506
3,038,073
3,038,993
3,045,117
3,046,397
3,047,719
3,049,618
3,050,623
3,054,897
3,056,024
3,062,956
3,068,356
50: 3,025,397
3,051,832
51: 3,046,398
51.5: 3,022,423
51.5: 3,023,311
3,027,456
3,029,341
3,030,507
3,032,656
3,042,801
3,046,399
3,051,833
3,051,834
3,051,835
3,060,314
3,070,694
52: 3,023,312
3,031,571
55: 3,069,543
57: 3,030,508
3,043,953
3,068,357
58: 3,040,174
3,065,344
61.5: 3,045,118
65: 3,024,362
3,031,572
3,036,216
3,038,994
3,048,695
3,056,025
3,057,997
3,057,998
3,057,999
3,061,722
3,068,358
66: 3,048,696
3,069,544
68: 3,037,117
71: 3,028,492
3,032,657
3,048,697
3,059,112
3,061,723
3,066,221
3,067,328
71.5: 3,017,510
3,018,374
3,026,412
3,028,493
3,030,509
3,031,573
3,032,658
3,032,659
3,035,172
3,040,175
3,041,454
3,041,455
3,047,720
3,048,698
3,049,619
3,049,620
3,052,796
3,053,982
3,056,885
3,056,886
3,058,100
3,061,724
3,062,957
3,068,359
3,070,695
77: 3,018,375
78: 3,051,836
80: 3,023,313
3,031,574
3,041,456
83: 3,031,575
3,038,074
3,040,176
3,042,802
3,046,400
3,051,837
3,053,983
3,050,113
83.1: 3,019,337
3,028,494
3,029,342
3,029,343
3,035,173
3,042,803
3,043,954
3,050,624
3,051,838
3,065,345
3,067,329
3,069,545
83.3: 3,017,511
3,017,512
3,017,513
3,019,338
3,020,406
3,020,407
3,021,428
3,024,363
3,024,364
3,025,398
3,025,399
83.3: 3,025,400
3,026,413
3,027,457
3,029,344
3,030,510
3,030,511
3,031,576
3,032,660
3,033,984
3,033,985
3,035,174
3,035,175
3,038,075
3,038,076
3,038,077
3,038,995
3,039,733
3,039,997
3,041,457
3,041,458
3,043,955
3,045,956
3,046,401
3,047,721
3,049,621
3,050,625
3,050,626
3,050,627
3,052,797
3,054,898
3,054,899
3,056,026
3,059,114
3,060,315
3,061,725
3,061,726
3,061,727
3,062,958
3,062,959
3,064,127
3,064,128
3,064,129
3,064,130
3,065,346
3,065,347
3,066,222
3,067,330
3,067,331
3,069,546
3,070,696
3,070,697
3,070,698
83.6: 3,015,729
3,016,460
3,018,376
3,019,339
3,022,424
3,027,458
3,027,459
3,028,495
3,030,512
3,031,577
3,033,986
3,037,118
3,047,722
3,052,798
3,056,027
3,065,348
3,065,349
84.5: 3,016,461
3,019,340
3,020,408
3,061,728
91: 3,037,119
93: Re.25,118
3,025,401
95: 3,061,729
99: 3,062,960
100: 3,037,217
102: 3,038,998
103: 3,027,460
3,043,957
3,069,547
3,069,548
105: 3,023,314
3,048,700
3,060,316
3,069,549
106: 3,017,514
3,019,341
3,019,342
3,020,409
3,025,402
3,026,414
3,028,496
3,028,497
3,028,498
3,038,078
3,038,999
3,045,119
3,046,403
3,048,701

106: 3,050,628
3,050,629
3,063,359
108: 3,016,462
3,016,463
3,025,403
3,032,661
3,037,120
3,039,000
3,039,001
3,045,120
3,045,121
3,052,799
3,056,028
3,065,351
199: 3,050,630
3,065,352
201: 3,023,315
3,024,365
3,041,459
202: 3,015,730
3,019,343
3,069,550
203: 3,033,987
3,037,121
3,038,079
3,039,002
3,046,404
3,050,631
3,053,984
3,061,730
3,064,131
3,070,699
205: 3,031,578
3,033,588
206: 3,042,804
3,062,961
207: 3,025,404
3,042,805
3,050,632
208: 3,019,344
3,020,410
3,020,411
3,029,345
3,030,513
3,038,080
3,039,003
3,041,460
3,056,029
3,056,887
3,058,001
3,059,115
3,066,223
3,070,700
209: 3,017,515
3,026,413
3,028,499
3,032,662
3,050,633
3,056,030
3,059,116
3,070,701
210: 3,035,176
3,039,004
211: 3,017,516
3,026,412
3,026,416
3,026,417
3,026,418
3,028,500
3,037,122
3,042,806
3,043,958
3,043,959
3,046,405
3,048,702
3,049,622
3,051,839
3,051,840
3,058,002
3,059,117
3,064,132
213: 3,053,985
213: 3,015,731
3,017,517
3,019,345
3,029,346
3,030,514
3,030,515
3,031,579
3,031,580
3,033,989
3,035,177
3,035,178
3,038,081
3,039,005
3,040,177
3,040,178
3,042,807
3,043,960
3,043,961
3,054,900
3,056,031
3,058,003
213: 3,059,118
3,062,962
3,064,133
3,064,134
3,065,353
3,068,360
3,069,551
3,070,702
214: 3,020,413
3,069,552
215: 3,046,406
217: 3,023,316
3,037,123
3,060,317
3,068,361
218: 3,025,405
3,027,461
3,028,501
3,036,218
3,045,122
3,045,123
3,060,318
3,062,963
3,064,135
3,065,354
219: 3,016,464
3,019,346
3,026,419
3,027,462
3,028,502
3,029,347
3,033,990
3,033,991
3,041,461
3,041,462
3,046,407
3,052,800
3,053,986
3,053,987
3,056,032
3,056,033
3,056,034
3,058,004
3,059,119
3,060,319
3,061,731
3,061,732
3,065,355
3,065,356
3,066,224
3,066,225
220: 3,023,317
3,025,406
3,036,219
3,038,082
3,043,962
3,051,841
3,058,005
3,059,120
3,067,332
221: 3,029,348
3,030,516
222: 3,018,377
3,047,723
3,066,226
3,069,553
223: 3,019,347
3,029,349
3,040,179
3,064,136
225: 3,068,362
226: 3,035,179
3,045,124
227: 3,062,964
231: 3,028,503
3,053,988
233: 3,035,180
3,039,006
3,054,901
234: 3,068,363
235: 3,020,414
236: 3,018,378
3,062,965
237: 3,023,318
3,031,351
3,031,581
3,038,083
3,054,902
3,067,333
238: 3,045,125
239: Re.25,238
3,031,582
3,040,180
3,056,035

Class 251

1: 3,023,994
3: 3,035,807
5: 3,023,995
3,039,733
9: 3,029,059
3,061,263
10: 3,043,553
11: 3,022,038
3,069,125
14: 3,023,996
3,026,081
3,026,082
3,029,060
3,049,331
21: 3,033,512
25: 3,055,629
26: 3,059,891
28: 3,023,997
3,036,807
30: 3,051,432
31: 3,037,737
3,038,691
3,056,573
3,056,574
35: 3,061,264
38: 3,059,892
45: 3,055,630
46: 3,022,039
52: 3,065,948
54: 3,017,156
3,027,132
3,036,808
3,044,741
58: 3,020,018
3,058,716
61: 3,021,108
3,022,977
3,048,361
3,051,433
3,054,592
3,057,594
3,064,935
62: 3,029,061
3,035,808
3,052,444
3,065,949
63: 3,022,040
65: 3,070,344
66: 3,017,157
74: 3,030,063
77: 3,036,809
3,053,497
3,059,893
78: 3,042,357
81: 3,053,498
84: 3,017,158
3,053,033
88: 3,049,332
95: 3,036,810
109: 3,016,226
111: 3,031,165
121: 3,029,062
3,059,894
3,069,126
127: 3,030,064
129: 3,055,631
134: 3,061,265
141: 3,064,936
145: 3,033,514
147: 3,061,266
149.6: 3,058,717
149.7: 3,059,895
149.9: 3,069,127
158: 3,049,333
159: 3,063,671
160: 3,030,065
3,036,811
3,065,950
163: 3,033,513
3,064,937
164: 3,030,066
167: 3,038,692
3,051,434
171: 3,038,693
3,041,036
3,064,938
172: Re.25,251
3,037,738
3,042,358
3,042,359
3,047,265
3,056,575
3,061,267
3,065,951
3,067,977
3,067,978
173: 3,026,083
3,027,133
3,034,760
3,036,812
3,069,128
175: Re.25,177
3,020,019
3,027,134
3,028,139
3,033,515
3,042,360
3,043,554
3,047,266
3,064,939
175: 3,069,129
181: 3,038,694
3,038,695
187: 3,033,516
3,042,361
3,043,555
3,057,595
190: 3,025,034
192: 3,065,952
193: 3,035,809
195: 3,041,037
196: 3,036,813
197: 3,044,742
199: 3,027,135
200: 3,039,734
203: 3,054,593
204: 3,021,109
210: 3,034,761
3,037,739
212: 3,070,345
214: 3,030,067
3,030,068
3,033,517
3,048,362
3,057,596
3,058,718
3,059,896
216: 3,049,334
218: 3,062,496
220: 3,041,038
8.55: 3,015,622
3,016,351
3,016,352
3,017,352
3,017,353
3,017,354
3,017,355
3,017,356
3,018,246
3,021,278
3,021,279
3,022,249
3,029,059
3,030,069
3,042,362
3,043,557
3,051,435
3,059,897
3,063,672
307: 3,048,363
309: 3,052,445
3,066,909
314: 3,061,268
315: 3,036,578
3,056,577
317: 3,035,811
3,061,269
320: 3,031,166
321: 3,055,953
324: 3,022,041
327: 3,032,310
3,045,963
3,052,446
3,069,131
329: 3,069,132
331: 3,015,469
3,020,020
332: 3,044,743
3,053,500
3,053,501
333: 3,054,594
3,059,898
337: 3,033,518
340: 3,027,136
3,043,558
342: 3,050,281
351: 3,032,311
356: 3,032,312
357: 3,053,502
362: 3,022,978
3,042,363

Class 252

2: 3,017,348
3,046,220
3,063,940
6.5: 3,053,763
7: 3,051,652
8.3: 3,051,653
3,067,134
8.5: 3,017,349
3,017,350
3,017,351
3,018,245
3,020,232
3,021,277
8.5: 3,022,248
3,025,234
3,025,235
3,025,236
3,027,322
3,027,323
3,027,324
3,028,333
3,032,498
3,034,982
3,034,983
3,034,984
3,039,958
3,041,275
3,041,276
3,042,607
3,042,608
3,046,221
3,047,493
3,047,494
3,048,538
3,049,490
3,049,491
3,053,784
3,057,797
3,061,542
3,062,740
3,065,170
3,070,543
3,070,544
8.55: 3,015,622
3,016,351
3,016,352
3,017,352
3,017,353
3,017,354
3,017,355
3,017,356
3,018,246
3,021,278
3,021,279
3,022,249
3,029,059
3,030,069
3,042,362
3,043,557
3,051,435
3,059,897
3,063,672
307: 3,048,363
309: 3,052,445
3,066,909
314: 3,061,268
315: 3,036,578
3,056,577
317: 3,035,811
3,061,269
320: 3,031,166
321: 3,055,953
324: 3,022,041
327: 3,032,310
3,045,963
3,052,446
3,069,131
329: 3,069,132
331: 3,015,469
3,020,020
332: 3,044,743
3,053,500
3,053,501
333: 3,054,594
3,059,898
337: 3,033,518
340: 3,027,136
3,043,558
342: 3,050,281
351: 3,032,311
356: 3,032,312
357: 3,053,502
362: 3,022,978
3,042,363

Class 252

2: 3,017,348
3,046,220
3,063,940
6.5: 3,053,763
7: 3,051,652
8.3: 3,051,653
3,067,134
8.5: 3,017,349
3,017,350
3,017,351
3,018,245
3,020,232
3,021,277
32.5: 3,017,357
3,017,358
32.7: 3,017,359
3,018,247
3,025,238
3,036,969
3,041,278
3,041,279
3,042,613
3,051,654
3,053,766
3,058,910
3,070,546
33: 3,021,280
3,025,239
3,025,240
3,027,325
3,032,501
3,038,857
3,049,493
3,046,224
3,050,464
33.3: 3,019,187
3,028,335
3,033,785
3,039,960
33.4: 3,036,003
3,057,799
3,063,942
3,065,178
33.6: 3,030,303
3,036,970
3,041,280
3,042,614
3,046,225
3,048,541
34: 3,017,360
34.7: 3,023,163
3,033,786
35: 3,017,361
3,044,960
37: 3,018,248
3,029,203
3,047,499
37.2: 3,044,961
3,052,630
39: 3,018,249
3,033,787
3,065,179
3,068,173
3,068,174
3,068,175
40: 3,042,615
40.7: 3,020,233
41: 3,015,624
3,053,767
3,062,742
42: 3,041,281
42.1: 3,052,631
42.7: 3,036,971
3,047,500
3,057,800
45: 3,036,004
3,047,501
46.4: 3,041,282
3,063,943
3,069,357
46.7: 3,030,304
3,031,401
3,043,773
3,062,743
47: 3,038,858
3,038,859
3,041,283
47.5: 3,021,281
3,039,961
3,048,542
48.2: 3,060,121
48.4: 3,047,502
48.6: 3,041,284
49.5: 3,050,465
49.6: 3,015,625
3,024,194
3,033,788
3,036,005
3,053,768
3,058,911
3,061,545
3,065,177
3,066,100
49.7: 3,023,164
3,030,305
3,036,972
3,058,912
3,069,387
49.8: 3,026,262
3,050,466
49.9: 3,033,789
3,051,655
3,053,769
50: 3,026,263
3,067,137
51.5: 3,017,362
3,018,250
51.5: 3,024,195
3,025,241
3,031,402
3,032,502
3,033,790
3,043,774
3,048,543
3,048,544
3,052,632
3,052,633
3,062,744
52: 3,026,264
3,043,775
3,047,503
54: 3,067,138
56: 3,016,353
3,029,204
3,047,504
3,049,493
3,058,913
3,062,745
3,065,180
57: 3,019,188
3,045,226
59: 3,055,830
3,057,801
3,060,122
3,066,101
60: 3,024,282
61: 3,034,985
62: 3,015,626
3,020,234
3,027,326
3,055,831
62.1: Re.25,136
3,058,914
62.3: 3,031,403
3,031,404
3,033,791
3,036,006
3,058,915
3,060,123
3,067,139
62.5: 3,015,627
3,015,628
3,019,189
3,020,235
3,020,236
3,021,283
3,023,165
3,023,166
3,024,196
3,027,327
3,028,336
3,038,337
3,038,906
3,030,307
3,031,405
3,031,406
3,031,407
3,032,503
3,033,792
3,034,986
3,034,987
3,034,988
3,036,007
3,036,008
3,036,009
3,038,860
3,038,861
3,039,962
3,039,963
3,039,964
3,039,965
3,039,966
3,042,616
3,042,617
3,042,618
3,042,619
3,043,776
3,043,777
3,046,227
3,046,228
3,047,505
3,051,656
3,052,634
3,053,770
3,054,751
3,054,752
3,055,832
3,055,833
3,057,802
3,061,546
3,062,746
3,065,181
3,065,182
3,066,102
3,066,103
3,067,140
3,068,176
62.9: 3,068,177
63: 3,036,010
63.2: 3,023,167
3,067,141

Class 252—Con.

67: 3,047,506
71: 3,036,011
72: 3,042,620
73: 3,062,747
74: 3,030,308
3,046,229
75: 3,015,629
3,019,190
3,039,967
3,046,230
3,047,507
3,049,494
3,067,142
77: 3,061,547
78: 3,019,191
3,038,012
3,039,968
3,048,545
3,056,745
3,057,803
3,065,183
79: 3,030,309
3,032,504
3,039,969
79.1: 3,063,944
79.4: 3,033,793
87: 3,019,193
89: 3,061,548
90: 3,055,834
3,061,549
95: 3,048,546
99: 3,030,013
3,042,621
3,042,622
3,047,508
3,054,753
3,058,916
3,058,917
3,061,550
101: 3,015,630
102: 3,048,547
3,049,495
107: 3,043,778
3,050,467
3,069,358
3,069,359
109: 3,020,237
3,069,360
110: 3,021,284
3,044,962
117: 3,024,197
3,026,265
3,043,779
3,043,780
3,047,509
3,061,551
3,067,143
118: 3,057,804
121: 3,030,310
3,070,547
122: 3,030,505
135: 3,022,250
3,033,794
3,039,970
3,048,548
3,060,124
3,061,552
136: 3,037,934
3,047,510
137: 3,023,168
3,034,989
3,037,935
3,042,623
3,052,635
3,066,104
138: 3,039,971
3,055,835
139: 3,037,936
3,058,918
3,067,144
142: 3,019,194
3,033,795
146: 3,047,511
3,049,496
3,065,184
147: 3,030,311
3,062,748
148: 3,033,796
3,063,746
149: 3,041,285
152: 3,017,363
3,018,251
3,037,937
3,038,862
3,046,231
3,055,836
153: 3,060,125
154: 3,031,408
156: 3,046,232
158: 3,031,409
159: 3,060,126
161: 3,029,205
3,030,312
3,032,506
3,053,771
3,055,837
3,057,805
170: 3,062,749
171: 3,031,410
3,031,411
3,031,412
172: 3,070,548
175: 3,023,169
3,060,127
179: 3,041,286
182: 3,031,413
3,055,838
186: 3,063,945
188: 3,017,364
188.3: 3,027,328
193: 3,046,233
300: 3,042,624
3,052,636
301.1: 3,033,797
301.2: 3,028,338
3,041,287
3,057,806
3,066,105
3,068,178
301.3: 3,017,365
3,025,242
3,037,938
301.4: 3,021,285
3,027,329
3,030,313
3,036,014
3,043,781
3,047,512
3,049,497
3,052,637
3,058,916
3,058,917
3,061,550
301.6: 3,017,366
3,020,235
3,025,243
3,025,244
3,028,339
3,031,414
3,031,415
3,031,416
3,034,990
3,039,972
3,052,638
3,063,772
3,062,750
3,063,946
305: 3,037,939
3,062,751
3,068,179
306: 3,051,657
3,051,658
307: 3,022,251
311.5: 3,026,266
3,032,507
3,036,015
3,050,468
3,052,639
3,062,829
312: 3,024,198
313: Re.25,252
3,024,199
3,026,267
3,028,340
3,031,417
3,031,418
3,046,234
3,056,747
315: 3,060,130
316: 3,018,252
3,041,288
3,041,289
3,043,782
3,049,498
317: 3,051,659
321: 3,023,170
336: 3,058,919
342: 3,042,625
3,056,748
353: 3,058,920
359: 3,017,367
3,023,171
3,024,200
3,060,131
360: 3,051,660
361: 3,056,749
363.5: 3,069,361
364: 3,018,253
378: 3,037,940
3,062,752
3,062,753
387: 3,024,201
389: 3,019,195
392: 3,019,196
3,061,553
397: 3,024,202
403: 3,018,254
3,043,783
408: 3,021,286
3,051,661
411: 3,046,235
412: 3,044,963
3,053,773
413: 3,016,354
3,020,239
3,024,203
414: 3,053,774
417: 3,050,469
419: 3,020,240
3,026,268
3,041,290
3,069,362
3,069,363
421: 3,021,287
3,053,775
424: 3,016,355
426: 3,015,631
3,029,206
3,061,554
428: 3,034,991
3,055,185
429: 3,025,245
3,026,269
3,032,508
3,032,509
3,032,510
3,032,511
3,034,992
3,036,016
3,042,626
3,047,513
3,050,470
3,050,471
3,054,754
3,060,132
3,068,180
3,069,364
3,070,549
430: 3,051,662
3,068,181
431: 3,038,863
3,055,839
432: 3,030,314
3,057,807
433: 3,024,204
435: 3,044,964
3,050,472
3,051,473
437: 3,044,965
3,044,966
439: 3,017,368
3,020,241
441: 3,017,369
3,032,512
3,042,627
442: 3,020,242
3,022,252
3,031,419
3,033,513
3,047,514
443: 3,055,840
445: 3,066,099
450: 3,017,370
3,024,205
3,033,798
3,033,799
3,034,993
3,039,973
451: 3,039,974
453: 3,034,994
455: 3,018,255
3,023,172
3,025,246
3,033,800
3,034,995
3,039,975
3,055,841
459: 3,033,801
461: 3,055,842
465: 3,020,243
3,020,244
3,020,245
3,031,420
3,032,514
3,042,628
3,061,555
466: 3,023,173
3,025,247
3,025,248
3,032,515
3,038,865
470: 3,029,207
472: 3,033,802
3,060,133
3,036,973
474: 3,036,973
477: 3,019,197
3,024,206
3,053,776
500: 3,044,967
3,051,663
501: 3,037,941
3,060,134
3,069,365
506: 3,063,947
507: 3,042,629
509: 3,043,784
511: 3,015,632
3,055,843
3,056,750
516: 3,036,017
518: 3,027,330
3,027,331
3,028,341
3,048,549
519: 3,015,633
3,037,942
520: 3,027,332
3,036,018
3,044,968
3,067,146
521: 3,019,198
3,027,333
3,070,550

Class 253

2: 3,053,503
3,059,899
3: 3,018,997
3,039,735
3,054,595
3,055,582
24: 3,041,039
26: 3,044,744
3,047,267
31: 3,026,085
3,030,070
39: 3,018,085
3,023,998
3,028,140
3,030,071
3,032,313
3,038,697
3,039,736
3,042,364
3,042,365
3,043,559
3,045,964
3,051,436
3,051,437
3,056,578
3,059,900
3,062,497
3,065,954
3,067,980
3,067,981
3,069,133
3,070,348
39.1: 3,029,064
3,039,737
3,045,965
3,045,966
3,067,982
39.15: 3,017,159
3,026,086
3,032,314
3,042,366
3,043,560
3,043,561
3,044,745
3,051,438
3,051,439
3,056,579
3,057,597
3,066,910
45: 3,056,580
52: 3,029,067
3,033,519
55: 3,032,315
3,063,673
59: 3,025,036
3,027,137
3,048,364
3,064,942
65: 3,066,911
66: 3,070,349
69: 3,025,037
3,042,367
3,059,901
70: 3,069,134
76: 3,058,720
3,066,912
77: 3,027,138
3,032,316
3,032,317
3,033,520
3,034,762
3,034,763
3,034,764
3,037,741
3,037,742
3,039,739
3,039,740
3,041,040
77: 3,042,368
3,042,369
3,043,562
3,043,563
3,044,746
3,045,967
3,045,968
3,047,268
3,048,365
3,050,282
3,051,440
3,053,504
3,053,505
3,055,633
3,055,634
3,056,581
3,057,598
3,063,674
3,065,955
3,070,350
3,070,351
78: 3,016,227
3,021,110
3,026,087
3,028,141
3,038,698
3,038,699
3,042,370
3,042,371
3,043,564
3,045,969
3,056,582
3,056,583
3,059,902
3,062,498
3,062,499
3,067,983
3,069,135
3,070,352
3,070,353
82: 3,055,635
3,055,636
95: 3,032,318
105: 3,027,139
117: 3,051,441
122: 3,030,072
143: 3,069,136
165: 3,026,088
166: 3,069,137

Class 254

1: 3,028,142
3,059,903
2: 3,021,111
3,026,089
3,035,812
3,038,700
3,044,747
3,051,442
3,063,675
4: 3,026,090
5: 3,048,366
7: 3,030,073
3,042,372
3,062,500
10: 3,059,904
10.5: 3,051,443
3,070,354
17: 3,049,536
18: 3,038,701
3,062,501
3,066,913
21: 3,063,676
25: 3,029,091
28: 3,056,584
29: 3,022,042
3,035,813
3,042,373
30: 3,039,741
3,059,905
35: 3,029,065
43: 3,039,742
50.2: 3,052,447
50.3: 3,029,066
3,036,815
3,044,748
50.4: 3,033,521
3,043,565
51: 3,035,814
3,050,283
3,054,596
3,062,502
3,063,677
3,069,138
53: 3,052,448
62: 3,022,979
67: 3,051,444
73: 3,045,970
78: 3,037,743
79: 3,062,503
80: 3,063,678
86: 3,035,522
3,033,523
86: 3,064,943
3,064,944
87: 3,045,971
3,045,972
89: 3,036,816
3,052,449
93: 3,015,470
3,030,074
3,047,269
3,058,721
95: 3,033,524
98: 3,022,043
3,027,140
99: 3,023,999
100: 3,021,112
3,022,980
103: 3,062,504
105: 3,028,143
3,031,167
3,041,041
3,066,914
107: 3,033,525
3,064,945
109: 3,028,144
110: 3,056,585
119: 3,053,506
122: 3,032,319
3,034,765
124: 3,048,367
129: 3,035,815
130: 3,041,042
3,048,368
131: 3,049,337
3,069,139
131.5: 3,035,816
132: 3,057,599
3,061,270
3,069,915
134: 3,028,145
3,036,817
134.3: 3,018,998
3,024,000
3,028,146
3,030,075
3,032,320
3,035,817
3,037,744
3,038,702
3,041,043
3,042,374
3,052,450
3,053,507
3,057,600
3,066,916
3,067,984
3,070,355
134.4: 3,034,766
3,052,451
134.5: 3,018,086
3,044,749
134.6: 3,047,270
3,055,637
139: 3,048,369
3,050,284
139.1: 3,015,471
3,033,526
3,033,527
3,034,767
3,045,973
3,050,285
144: 3,061,271
150: 3,048,370
3,051,445
3,055,638
3,063,653
160: 3,041,044
161: 3,020,021
3,054,597
164: 3,022,981
3,031,168
3,053,508
165: 3,021,113
166: 3,027,141
3,033,528
3,045,974
167: 3,049,338
3,062,505
168: 3,015,472
3,056,586
169: 3,030,076
172: 3,015,473
173: 3,031,169
3,033,529
3,033,530
3,049,339
3,069,140
3,070,356
174: 3,042,375
3,043,566
175: 3,032,321
175.7: 3,020,022
3,066,917
184: 3,018,999
185: 3,016,228
185: 3,041,045
3,063,679
3,064,946
3,069,141
186: 3,024,001
3,049,340
3,031,446
187: 3,033,531
3,042,376
3,048,371
3,051,447
189: 3,051,448
190: 3,032,322
3,034,768
3,042,377
3,042,378
3,045,975
3,055,639
3,059,906
3,061,272
3,063,680
192: 3,050,286

Class 256

10: 3,016,229
3,051,449
11: 3,028,147
13.1: 3,028,148
3,039,743
21: 3,033,532
22: 3,057,985
24: 3,020,023
3,021,114
3,045,976
3,050,287
34: 3,069,142
47: 3,062,044
51: 3,045,977
54: 3,037,745
57: 3,031,170
64: 3,057,601
3,059,907
65: 3,021,115
3,055,640
72: 3,021,116
73: 3,022,045

Class 257

1: 3,018,087
3,021,117
3,045,978
3,056,587
30: 3,015,474
32: 3,020,024
36: 3,067,818
40: 3,033,681
43: 3,042,379
3,057,602
3,061,273
50: 3,026,092
73: 3,034,769
79: 3,022,025
87: 3,022,046
95: 3,022,047
101: 3,056,588
124: 3,024,002
3,033,533
3,037,746
3,043,567
3,049,341
3,053,509
125: 3,051,450
3,053,510
3,062,506
130: 3,045,979
136: 3,022,048
137: 3,017,160
3,018,088
3,054,598
3,058,722
148: 3,028,149
3,042,380
3,063,682
154: 3,016,230
3,027,142
3,053,511
3,053,512
162: 3,053,513
164: 3,019,000
187: 3,042,381
191: 3,045,980
199: 3,057,603
208: 3,061,274
212: 3,062,507
222: 3,059,908
224: 3,052,452
231: 3,054,599
235: 3,018,089
3,033,534
3,035,818
3,055,641
3,064,947

236: 3,045,981
3,048,372
239: 3,048,373
241: 3,015,475
3,029,068
3,055,642
245: 3,017,161
3,022,982
3,024,003
3,034,770
3,042,382
3,047,271
246: 3,020,026
3,036,818
247: 3,018,090
248: 3,033,535
250: 3,027,143
3,055,643
3,066,918
251: 3,039,744
256: 3,048,374
3,053,514
262.13: 3,022,049
262.16: 3,020,027
3,033,536
262.19: 3,031,171
263: 3,033,537
3,038,703
264: 3,039,745
3,047,272
265: 3,062,508
267: 3,022,050
3,024,004
3,043,568
268: 3,061,275
269: 3,016,231
3,022,051
3,022,983
3,024,005
3,027,144
3,057,604
270: 3,045,982
3,058,723
3,062,509
272: 3,055,644
274: 3,025,038
3,051,451
276: 3,045,983
277: 3,024,006
278: 3,058,724
281: 3,042,383
282: 3,053,515
283: 3,044,007
3,024,008
287: 3,047,273
290: 3,017,162
3,019,001
291: 3,043,569
292: 3,041,046
293: 3,042,384
296: 3,048,375
297: 3,041,047
303: 3,024,009
3,035,819
304: 3,041,048
306: 3,033,538
3,033,539
308: 3,067,817
310: 3,061,276
313: 3,032,323
3,032,324
3,037,747
3,047,274
3,053,516
3,062,510
314: 3,030,077
3,061,277

Class 258

1.2: 3,017,163
3,030,078
3,039,746
3,042,385

Class 259

1: 3,026,093
3,030,079
3,042,386
3,056,589
3,056,590
3,061,278
2: 3,061,279
3,063,693
3: 3,020,028
3,062,511
3,064,948
3,067,986
4: 3,029,069
3,045,994
3,045,985
3,047,275
3,048,376
4: 3,051,452
3,051,453
6: 3,030,080
3,051,454
7: 3,067,987
8: 3,051,455
9: 3,018,091
3,041,049
3,051,456
23: 3,036,819
25: 3,062,512
3,070,357
43: 3,021,118
3,036,820
54: 3,018,092
60: 3,056,591
67: 3,054,600
72: 3,021,119
3,021,120
3,030,081
3,030,082
3,045,987
3,061,280
96: 3,043,570
97: 3,021,121
98: 3,035,820
101: 3,062,513
102: 3,063,684
103: 3,053,517
106: 3,045,988
107: 3,024,010
3,041,050
108: 3,064,949
3,064,950
109: 3,037,748
3,041,051
3,061,281
110: 3,022,052
121: 3,051,457
122: 3,037,749
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132: 3,033,540
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136: 3,039,747
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147: 3,026,094
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180: 3,066,920

Class 260

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6: 3,017,373
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7: 3,020,250
8: 3,038,869
9: 3,022,257
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15: 3,034,997
16: 3,051,667
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17.5: 3,042,637
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18: 3,015,635
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19: 3,028,348
3,031,421
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20: Re.25,213
3,016,357
3,035,001
21: 3,023,176
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22: 3,015,637
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24: 3,015,638
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25: 3,015,639
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26: 3,015,640
27: Re.25,187
Re.25,188
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27: 3,067,155
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28: 3,028,350
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28.5: 3,021,294
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31.8: 3,016,359
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32.4: 3,032,525
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32.6: 3,047,296
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33.2: 3,042,646
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33.4: 3,042,647
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33.6: 3,019,207
3,025,258

Class 260—Con.

33.6: 3,027,343
3,029,215
3,043,793
3,043,794
3,048,559
3,051,678
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3,054,768
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33.8: 3,037,956
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37: Re.25,141
3,017,378
3,018,264
3,021,297
3,023,186
3,024,214
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38: 3,020,254
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40: 3,016,360
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41: 3,017,379
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42: 3,015,643
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42: 3,039,990
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43: 3,022,262
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45.9: Re.25,260
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53: 3,070,576
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58: 3,038,881
59: 3,038,882
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62: 3,062,784
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63: 3,025,265
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65: 3,017,388
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66: 3,068,202
67: 3,017,389
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Class 260—Con.

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Class 260—Con.

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3,038,010
3,040,095
3,041,375
3,051,751
3,061,642
3,062,883
3,064,050
3,065,268
3,067,251
562: 3,024,281
3,024,282
3,027,408
3,038,938
3,041,376
3,042,719
3,042,720
3,052,721
3,055,938
3,061,643
3,064,051
563: 3,040,096
3,053,894
3,064,052
3,068,285
3,068,286
3,069,468
564: 3,035,094
3,043,878
3,059,029
566: 3,040,097
3,048,634
3,054,824
3,067,252
3,068,287
3,070,627
567.6: 3,024,283
3,028,427
3,055,939
569: 3,042,721
570: 3,028,428
3,057,921
570.5: 3,050,559
3,051,752
3,068,288
570.6: 3,028,429
570.7: 3,047,628
3,056,836
570.8: 3,028,430
3,062,884
570.9: 3,019,262
3,069,469
3,070,628
571: 3,022,347
574: 3,053,895
575: 3,052,722
3,067,253
576: 3,025,324
3,053,896
576: 3,055,940
3,065,269
3,067,254
577: 3,026,355
578: 3,037,057
3,037,058
3,062,885
3,068,289
580: 3,032,586
3,041,377
3,051,753
581: 3,057,922
582: 3,069,470
583: 3,015,675
3,017,435
3,022,348
3,025,325
3,029,285
3,032,587
3,038,939
3,040,098
3,048,635
3,050,560
3,051,754
3,052,723
3,055,941
3,056,837
3,061,644
3,062,886
3,062,887
3,062,888
3,065,270
3,066,168
584: 3,023,243
3,029,286
3,031,504
3,031,505
3,036,130
3,040,099
3,046,308
3,053,897
3,066,169
585: 3,022,349
3,067,255
3,068,290
586: 3,019,263
3,019,264
3,023,244
3,027,409
3,027,410
3,041,378
3,042,722
3,047,629
3,048,636
3,050,561
3,056,838
3,059,030
3,070,629
587: 3,019,265
3,029,287
590: 3,023,245
3,038,940
3,059,032
3,060,236
591: 3,031,506
592: 3,036,131
3,040,100
3,040,101
3,040,102
3,045,047
3,048,637
593: 3,030,416
3,038,011
3,041,379
3,047,630
3,068,291
594: 3,028,431
3,045,048
595: 3,023,246
3,041,380
3,049,565
3,056,839
596: 3,053,898
597: 3,020,314
3,059,031
598: 3,031,507
3,050,562
3,068,292
599: 3,023,247
3,061,645
600: 3,049,566
3,054,825
601: 3,017,436
3,056,840
3,062,889
3,067,256
602: 3,060,237
3,062,890
603: 3,038,941
604: 3,027,411
3,029,288
3,031,508
3,032,588
604: 3,038,942
3,052,724
3,055,942
3,061,646
606: 3,051,755
3,057,923
3,060,238
3,060,239
3,060,240
606.5: 3,020,315
3,022,350
3,023,248
3,025,326
3,026,356
3,028,432
3,029,289
3,030,417
3,030,418
3,030,419
3,030,420
3,030,421
3,030,422
3,031,509
3,032,589
3,032,590
3,032,591
3,035,095
3,035,096
3,036,132
3,038,012
3,038,943
3,040,103
3,042,723
3,045,049
3,048,638
3,051,756
3,052,725
3,053,899
3,053,900
3,055,943
3,055,944
3,055,945
3,057,924
3,060,241
3,061,647
3,064,053
3,064,054
3,064,055
3,065,271
3,065,272
3,065,273
3,066,170
3,067,257
3,067,258
3,068,293
3,070,630
3,070,631
607: 3,016,403
3,019,266
3,021,370
3,030,424
3,038,944
3,043,879
3,045,050
3,045,051
3,047,631
3,051,757
3,057,925
3,065,274
3,069,471
608: 3,022,351
3,038,013
3,038,014
3,064,056
609: 3,019,267
3,019,268
3,025,327
3,032,592
3,033,903
3,033,904
3,035,097
3,036,133
3,042,724
3,043,880
3,045,052
3,045,053
3,047,632
3,049,567
3,050,563
3,050,564
3,051,758
3,051,759
3,052,726
3,053,901
3,053,902
3,055,946
3,056,841
3,057,926
3,061,648
3,062,891
3,062,892
3,062,893
3,062,894
3,065,275
609: 3,069,472
3,069,473
3,070,632
610: 3,022,352
3,023,249
3,041,381
3,054,826
3,069,474
611: 3,017,437
3,021,371
3,024,284
3,025,328
3,031,510
3,047,633
3,047,634
3,055,947
3,055,948
3,060,242
3,061,649
3,061,650
3,068,294
611.5: 3,030,425
3,031,511
612: 3,022,353
3,032,594
3,038,945
3,046,309
613: 3,021,372
3,022,354
3,024,285
3,043,881
3,051,760
3,056,842
3,056,843
3,057,927
3,060,243
3,064,057
3,065,276
3,067,259
3,068,295
3,068,296
614: 3,021,373
3,023,250
3,036,134
3,038,946
3,050,565
3,052,727
615: 3,016,404
3,020,316
3,028,433
3,030,426
3,042,725
3,053,903
3,069,475
617: 3,026,357
3,046,310
3,050,566
618: 3,022,355
3,024,286
3,029,290
3,030,427
619: 3,015,676
3,027,412
3,029,291
3,035,098
3,049,568
3,049,569
3,052,728
3,053,904
3,057,928
3,062,895
3,062,896
620: 3,019,269
621: 3,023,251
3,023,252
3,029,292
3,029,293
3,029,294
3,033,903
3,033,904
3,043,882
3,043,883
3,055,949
3,057,929
3,061,651
623: 3,035,099
3,043,884
3,051,761
3,055,950
624: 3,030,428
3,032,595
3,051,762
3,055,951
3,062,897
627: 3,036,135
631: 3,021,374
3,023,253
3,052,729
631.5: 3,052,730
632: 3,018,307
3,024,287
632: 3,031,512
3,053,905
3,053,906
632.5: 3,057,930
633: 3,045,356
3,037,059
635: 3,020,319
3,024,288
3,028,434
3,030,429
3,041,382
3,046,311
3,046,312
3,047,635
3,055,952
3,060,244
3,070,633
637: 3,037,060
3,040,104
3,060,171
3,067,260
638: 3,020,320
3,037,061
3,041,383
640: 3,043,308
643: 3,028,435
3,052,731
644: 3,017,439
3,024,289
3,035,100
3,035,101
3,038,015
3,040,105
3,047,638
3,053,907
3,053,827
3,054,828
3,054,829
3,057,931
3,066,172
3,066,173
3,067,261
3,069,476
3,069,477
645: 3,043,885
3,045,570
3,053,908
3,065,277
3,065,278
646: 3,026,358
3,032,596
3,064,058
648: 3,016,405
3,024,290
3,025,329
3,035,102
3,040,106
3,040,107
3,041,384
3,050,567
3,052,732
3,062,898
3,062,479
649: 3,017,440
3,028,436
3,028,437
3,029,295
3,045,886
3,068,297
3,069,478
650: 3,025,330
3,029,296
3,033,905
3,035,103
3,043,887
3,046,313
3,046,314
3,051,763
3,054,830
3,062,899
3,064,059
651: 3,021,375
3,024,291
3,052,733
3,052,734
3,053,909
3,057,932
3,062,480
652: 3,053,910
3,059,033
652.5: 3,015,677
3,015,678
3,015,679
3,019,270
3,025,331
3,028,438
3,029,297
3,029,298
3,040,108
3,042,726
3,043,888
3,048,639
3,049,571

Class 260—Con.

652.5: 3,060,245
3,062,900
3,066,174
3,070,634
3,070,635
653: 3,016,406
3,026,359
3,032,597
3,042,727
3,047,636
653.1: 3,016,407
3,051,764
3,055,953
3,067,262
653.3: 3,020,321
3,022,357
3,047,637
3,047,639
3,052,901
3,067,263
3,067,264
653.4: 3,047,640
653.5: 3,043,889
653.7: 3,047,641
653.8: 3,038,947
3,047,642
3,062,902
3,068,299
654: 3,016,408
3,022,358
3,025,332
3,028,439
3,029,299
3,040,109
3,049,572
3,049,573
3,050,568
3,052,735
3,054,831
3,055,954
3,061,652
3,065,279
3,067,265
3,067,266
655: 3,026,360
3,061,653
656: 3,055,955
3,059,034
657: 3,067,267
658: 3,016,361
3,059,035
659: 3,065,280
660: 3,070,636
662: 3,042,728
664: 3,059,481
665: 3,053,911
3,059,036
3,064,060
666: 3,015,680
3,016,409
3,016,410
3,022,359
3,036,136
3,049,574
3,051,765
3,052,736
3,052,737
3,054,832
3,056,844
3,060,246
3,069,482
666.5: 3,052,738
667: 3,060,430
3,054,833
3,070,640
668: 3,031,513
3,040,110
3,047,643
3,051,766
3,052,739
3,062,903
3,062,904
3,064,061
3,070,637
3,070,638
669: 3,050,569
3,065,281
3,067,268
3,068,300
671: 3,017,441
3,031,514
3,046,315
3,046,316
3,050,570
3,052,741
3,054,834
3,054,835
3,054,836
3,065,282
3,068,301
672: 3,027,413
3,068,302
673.5: 3,023,254
3,033,906
3,054,837
674: 3,023,255
3,029,300
3,037,062
3,043,890
3,043,891
3,043,892
3,043,893
3,049,575
3,052,742
3,053,912
3,055,956
3,059,037
3,062,905
3,067,269
3,067,270
3,070,639
676: 3,030,431
3,046,317
3,053,913
3,054,838
677: 3,026,362
3,036,137
3,041,385
3,050,571
3,061,654
3,067,271
3,068,303
3,068,304
678: 3,065,283
679: Re.25,218
3,018,309
3,019,271
3,027,414
3,055,957
3,060,247
3,062,906
680: 3,028,440
3,030,432
3,030,433
3,042,729
3,050,572
3,052,740
3,064,062
3,067,272
681: 3,024,262
3,056,845
681.5: 3,070,641
3,017,442
3,031,515
3,038,016
3,040,111
3,050,573
3,062,907
3,070,642
682: 3,068,305
683: 3,019,272
3,027,415
3,054,839
683.15: 3,024,293
3,028,441
3,035,104
3,053,105
3,057,063
3,041,386
3,045,054
3,047,644
3,053,916
3,068,306
683.3: 3,032,598
3,053,914
683.42: 3,019,273
683.45: 3,038,948
683.48: 3,018,310
3,045,055
3,066,175
3,069,483
683.53: 3,045,056
683.58: 3,055,958
683.59: 3,053,917
683.61: 3,052,743
683.62: 3,038,017
3,068,307
3,068,308
683.63: 3,046,318
683.64: 3,032,599
683.65: 3,020,322
3,047,645
3,065,284
683.68: 3,023,256
3,024,294
3,047,646
3,066,176
683.73: 3,060,248
683.74: 3,042,730
683.75: 3,060,249
683.9: 3,053,915
776: 3,038,949
786: 3,057,933
800: 3,057,934
810: 3,017,443
3,036,138

Class 261

3: 3,047,276
3,064,952
18: 3,022,953
19: 3,017,165
21: 3,054,602
3,063,686
22: 3,057,605
3,062,516
23: 3,025,039
3,038,706
3,043,572
3,044,751
3,048,378
3,058,725
3,061,285
24: 3,028,150
3,043,573
27: 3,022,984
28: 3,055,945
29: 3,044,752
3,058,726
3,065,956
3,067,988
30: 3,069,921
34: 3,017,166
3,017,167
35: 3,037,751
3,065,957
36: 3,020,030
3,034,771
3,039,748
3,061,286
39: 3,021,123
3,038,727
3,058,728
3,059,909
3,064,953
41: 3,018,093
3,025,040
3,026,095
3,030,084
3,030,085
3,037,752
3,047,387
3,043,574
3,066,922
42: 3,063,687
44: 3,069,146
50: 3,054,603
51: 3,041,172
58: 3,038,707
59: 3,054,604
64: 3,037,753
3,066,923
65: 3,047,277
3,057,606
66: 3,038,708
69: 3,049,342
72: 3,052,453
3,059,910
78: 3,057,607
81: 3,016,233
94: 3,034,772
98: 3,016,234
3,064,954
106: 3,031,173
108: 3,063,688
111: 3,024,012
112: 3,033,541
3,039,749
113: 3,018,094
3,029,070
3,064,955
3,070,359
3,070,360
114: 3,019,003
3,022,054
3,025,041
3,027,145
3,037,754
3,039,750
3,039,751
3,045,989
3,047,278
3,053,520
3,053,521
3,055,646
3,056,592
3,062,517
116: 3,038,709
120: 3,045,990
124: 3,063,689
3,064,956
127: 3,048,379
138: 3,031,174
148: 3,039,752
151: 3,022,985
155: 3,028,151

Class 262

1: 3,026,096
3,030,086
1: 3,055,647
3,070,361
2: 3,034,773
3,041,053
3,050,289
3: 3,017,168
3,018,095
3,019,004
3,022,986
3,024,013
3,050,290
3,058,729
3,058,730
3,064,957
5: 3,032,325
3,035,821
7: 3,061,287
3,061,288
3,061,289
8: 3,027,146
3,033,175
3,033,542
9: 3,025,042
3,026,097
3,035,822
3,038,730
3,041,054
3,044,753
3,045,991
3,050,291
3,050,292
3,050,293
3,052,454
3,061,290
3,062,518
3,063,954
3,064,958
12: 3,055,648
13: 3,033,543
14: 3,051,459
15: 3,030,087
19: 3,019,005
3,022,955
3,028,152
3,047,279
3,050,294
3,055,649
3,062,519
3,063,690
3,066,924
20: 3,037,755
3,045,992
3,061,291
3,067,989
26: 3,036,821
3,041,055
3,052,455
3,069,147
27: 3,015,477
3,026,098
28: 3,057,608
29: 3,050,295
33: 3,020,631
3,021,124
3,030,088
3,057,609
3,063,691
441: 3,038,864

Class 263

2: 3,034,774
3,048,380
3,064,959
3: 3,027,148
3,054,605
3,056,593
3,057,610
3,063,692
5: 3,066,925
6: 3,015,478
3,021,125
3,022,056
3,026,099
3,026,100
3,027,149
3,028,153
3,037,756
3,050,296
3,051,460
3,055,650
3,055,651
3,058,731
3,070,362
8: 3,015,479
3,016,235
3,050,297
3,054,606
3,058,732
3,062,520
10: 3,018,096
3,022,987
3,045,993
11: 3,015,480
3,051,461
15: 3,022,057
3,051,462
3,052,456
19: 3,024,014
3,033,544
3,034,775
3,044,754
3,051,463
3,051,464
3,051,465
3,057,611
3,061,292
3,062,521
3,066,926
21: 3,022,988
3,030,089
25: 3,062,522
28: 3,030,090
3,038,731
3,039,298
3,053,693
29: 3,021,126
3,027,147
3,033,545
3,035,823
3,046,381
3,050,299
3,061,293
3,064,960
30: 3,025,043
3,053,522
32: 3,016,236
3,021,127
3,030,091
3,036,822
3,037,757
3,042,388
3,042,389
3,049,343
3,067,990
33: 3,031,176
3,033,546
3,034,776
3,036,823
3,039,753
3,057,612
34: 3,054,607
37: 3,030,092
3,041,056
40: 3,024,015
3,025,044
3,033,547
3,035,824
3,055,652
41: 3,043,575
3,048,382
42: 3,019,006
3,020,032
3,032,326
43: 3,061,294
44: 3,032,327
46: 3,045,994
3,061,295
47: 3,022,058
3,025,045
3,039,754
3,044,755
3,056,594
51: 3,030,093
3,037,758
52: 3,021,128
3,030,094
3,051,466
3,066,927
53: 3,022,989
3,044,756

Class 266

1: 3,041,057
4: 3,019,007
3,026,101
3,036,824
3,036,825
3,059,911
5: 3,017,169
3,041,058
3,048,383
3,053,523
3,069,148
6: 3,033,548
14: 3,061,296
16: 3,016,237
3,037,759
3,063,694
3,065,958
19: 3,033,549
3,039,755
3,045,995
20: 3,063,695
21: 3,025,046
3,038,712
3,039,756
3,042,390
3,059,912
21: 3,063,696
3,064,961
23: 3,020,033
3,020,034
3,028,154
3,032,328
3,037,760
3,043,576
3,044,757
3,058,733
3,061,297
3,063,697
3,063,698
24: 3,051,467
3,052,457
25: 3,064,962
30: 3,057,615
31: 3,041,059
3,045,996
3,067,991
32: 3,030,095
3,053,524
34: 3,020,035
3,022,059
3,025,047
3,027,150
3,033,550
3,043,577
3,045,997
3,053,525
3,058,595
3,058,734
3,059,913
3,061,298
3,062,523
3,062,524
3,063,699
35: 3,026,102
36: 3,022,990
3,031,177
3,057,616
3,061,299
38: 3,048,384
41: 3,015,481
3,031,178
3,043,578
3,061,300
42: 3,033,551
3,058,735
43: 3,058,736

Class 267

1: 3,015,482
3,017,170
3,017,171
3,018,097
3,019,008
3,020,036
3,020,037
3,021,129
3,022,060
3,024,016
3,027,151
3,027,152
3,027,153
3,029,071
3,030,096
3,030,097
3,030,098
3,033,552
3,033,825
3,035,826
3,036,826
3,038,713
3,038,714
3,039,757
3,039,758
3,041,060
3,042,391
3,043,579
3,043,580
3,044,758
3,044,759
3,047,280
3,047,281
3,047,382
3,049,344
3,053,526
3,054,608
3,056,596
3,056,597
3,058,737
3,058,738
3,059,914
3,059,915
3,062,525
3,063,700
3,065,959
3,066,928
3,070,363
3: 3,030,099
3,045,998
8: 3,022,061
3,030,100
8: 3,037,761
3,041,061
3,043,581
9: 3,047,283
3,052,458
3,059,916
11: 3,037,762
15: 3,033,553
3,058,739
3,059,917
16: 3,038,715
3,051,468
21: 3,028,155
22: 3,045,999
28: 3,028,156
3,034,777
31: 3,031,179
3,042,392
3,044,760
3,066,929
33: 3,052,459
3,069,149
34: 3,031,180
3,033,554
3,035,827
3,037,763
35: 3,042,393
47: 3,053,527
48: 3,039,759
3,062,526
3,069,150
49: 3,022,062
52: 3,058,740
3,061,301
54: 3,022,991
3,030,101
3,042,394
57: 3,022,992
3,033,555
63: 3,037,764
3,050,300
64: 3,017,172
3,019,009
3,031,181
3,031,182
3,033,556
3,039,760
3,041,062
3,046,000
3,046,001
3,046,002
3,047,284
3,051,470
3,056,598
3,063,701
3,063,702
65: 3,026,103
3,033,557
3,033,558
3,037,765
3,038,716
3,038,717
3,039,761
3,043,582
3,044,761
3,044,762
3,046,003
3,047,285
3,053,528
3,059,918
3,063,703
3,063,704
3,070,364
69: 3,044,763
70: 3,026,104
74: 3,032,329
3,033,583
80: 3,046,004
81: 3,051,471
85: 3,054,609
89: 3,052,459
90: 3,046,827
100: 3,052,460
3,067,992
101: 3,039,762
103: 3,057,613
3,059,919
107: 3,032,993
3,039,763
3,055,653
108: 3,042,395
110: 3,022,063
3,025,048
3,031,183
3,035,828
3,037,766
3,046,005

Class 268

3: 3,069,151
21: 3,056,599
33: 3,039,764
34: 3,044,764
3,067,993

42: 3,021,130
53: 3,043,584
58: 3,064,963
59: 3,021,131
3,048,385
65: 3,064,964
72: 3,030,102
73: 3,020,038
102: 3,016,238
109: 3,020,039
3,064,965
3,064,966
115: 3,064,967
117: 3,035,829
118: 3,032,330
119: 3,017,173
121: 3,062,527
122: 3,051,472
124: 3,020,040
3,022,054
3,022,055
3,062,528
3,069,152
129: 3,028,157

Class 269

3: 3,039,765
8: 3,022,994
9: 3,049,345
3,061,302
3,062,529
3,063,705
14: 3,029,072
17: 3,030,103
22: 3,045,585
3,048,386
26: 3,041,063
32: 3,027,154
3,027,155
3,056,600
34: 3,032,331
38: 3,015,483
3,024,017
3,027,156
3,028,158
41: 3,032,332
43: 3,052,461
3,067,994
45: 3,047,286
46: 3,057,617
49: 3,043,586
51: 3,048,387
52: 3,030,104
3,030,246
55: 3,022,995
58: 3,069,153
60: 3,046,006
61: 3,022,066
3,039,766
3,063,706
67: 3,032,333
71: 3,024,018
3,043,587
3,062,530
3,066,930
73: 3,069,154
76: 3,041,064
3,067,995
78: 3,054,610
79: 3,021,132
91: 3,018,098
95: 3,051,473
3,057,618
97: 3,054,611
104: 3,047,287
126: 3,017,174
127: 3,022,067
130: 3,017,175
133: 3,032,334
135: 3,020,041
137: 3,028,159
142: 3,034,778
3,034,779
3,057,619
153: 3,025,019
3,027,157
3,058,741
156: 3,027,158
157: 3,016,805
159: 3,025,030
163: 3,026,105
3,056,828
165: 3,051,474
173: 3,066,931
177: 3,027,159
3,031,184
185: 3,017,176
189: 3,036,829
3,037,767
191: 3,019,010
201: 3,035,830
204: 3,063,707
205: 3,017,177
3,033,539
216: 3,063,708
218: 3,050,301
226: 3,019,011
228: 3,035,831
3,044,765
240: 3,033,560
241: 3,055,654
249: 3,052,462
254: 3,044,512
276: 3,065,960
287: 3,063,709
315: 3,030,105
321: 3,055,655

Class 270

5: 3,026,106
18: 3,069,155
21: 3,032,335
31: 3,033,561
3,051,475
3,037,998
39: 3,034,780
40: 3,038,718
3,066,932
50: 3,038,719
52: 3,027,160
3,070,955
53: 3,032,336
3,057,620
57: 3,048,388
3,052,463
58: 3,019,012
3,019,013
3,021,133
3,026,107
3,035,832
3,041,065
3,047,288
3,054,612
3,055,656
3,059,920
61: 3,019,014
3,024,019
3,063,710
62: 3,031,185
63: 3,048,389
3,052,464
68: 3,021,134
3,057,621
70: 3,021,135
3,056,601
72: 3,059,921
73: 3,037,788
3,044,766
3,048,390
76: 3,022,996
77: 3,020,042
3,055,657
79: 3,032,337
3,067,997
84: 3,019,015
86: 3,029,073
93: 3,019,016

Class 271

1: 3,034,781
3,051,476
2: 3,044,767
3: 3,034,782
3,051,477
4: 3,025,051
3,035,833
3,044,768
3,049,346
3,062,531
5: 3,016,239
3,020,043
3,041,066
3,062,532
3,069,156
8: 3,049,347
10: 3,027,161
3,057,366
11: 3,016,240
3,053,529
12: 3,031,186
3,067,998
14: 3,034,783
18: 3,025,108
3,044,769
19: 3,031,187
3,064,968
26: 3,033,562
3,039,767
3,042,396
3,048,391
3,070,367
27: 3,022,997
3,041,067
3,048,392
28: 3,025,052
3,069,157
29: 3,034,784
3,041,068
3,055,658
3,069,158
30: Re.25,152
3,047,289
3,053,530
32: 3,026,109
33: 3,025,053
3,043,588
34: 3,035,834
3,048,393
36: 3,021,136
3,032,338
3,044,770
3,047,290
3,052,465
3,059,922
3,062,533
3,062,534
3,063,711
3,063,712
3,070,368
41: 3,015,484
42: 3,051,478
44: 3,019,017
3,020,044
3,021,054
3,033,563
3,038,720
3,041,069
46: 3,018,099
49: 3,022,998
51: 3,042,397
3,043,589
3,067,999
53: 3,015,485
3,044,771
3,053,531
55: 3,022,068
57: 3,065,961
58: 3,015,486
3,059,923
59: 3,025,055
3,039,768
60: 3,030,106
3,049,348
61: 3,022,056
3,029,074
3,046,007
3,052,466
3,061,303
3,069,159
62: 3,031,188
3,032,339
3,035,835
3,038,721
3,048,394
3,061,304
3,062,535
63: 3,017,178
3,062,536
64: 3,017,179
3,053,532
68: 3,022,999
3,025,057
3,030,107
3,032,340
3,044,772
3,048,068
3,051,479
3,061,305
69: 3,063,713
71: 3,046,009
3,052,467
3,052,468
3,062,537
3,064,969
74: 3,019,018
79: Re.25,283
3,032,341
3,042,398
3,054,613
3,062,538
86: 3,015,487
3,029,075
3,031,189
3,052,469
3,055,659
87: 3,051,480
3,066,933
88: 3,033,564
3,046,010
89: 3,049,349
3,062,539

Class 272

1: 3,018,100
3,020,045
3,042,399
3,048,395
10: 3,035,836
27: 3,056,602
3,062,540
3,064,970
3,066,934
31: 3,022,069
3,022,070
3,053,533
3,055,660
32: 3,052,470
33: 3,018,101
3,041,070
3,043,590
3,049,350
3,066,935
3,069,160
36: 3,015,488
3,034,785
52: 3,032,342
3,050,302
3,053,534
53.1: 3,037,769
3,038,722
3,062,541
3,068,000
54: 3,051,481
56: 3,044,773
3,046,011
56.5: 3,032,343
3,047,291
3,047,292
3,048,396
57: 3,020,046
3,021,137
3,022,071
3,024,020
3,024,021
3,034,786
3,036,830
3,053,535
3,062,542
3,063,714
58: 3,017,180
3,043,591
3,058,742
59: 3,024,022
3,061,306
60: 3,032,344
62: 3,047,293
65: 3,047,294
66: 3,030,108
3,035,837
3,058,743
67: 3,029,076
3,069,161
68: 3,033,565
70.1: 3,065,962
73: 3,024,023
74: 3,023,000
75: 3,061,307
3,064,971
3,064,972
76: 3,017,181
78: 3,022,072
3,030,109
79: 3,068,001
3,068,002
3,068,003
3,069,162
80: 3,051,482
3,062,543
81: 3,019,019
84: 3,022,073
85: 3,044,774
3,058,744

Class 273

1: 3,017,182
3,024,024
3,039,769
3,042,400
3,047,295
3,050,303
3,052,471
3,054,614
3,065,963
1.5: 3,017,183
3,018,102
3,023,001
3,025,058
3,050,304
3,050,305
11: 3,069,163
14: 3,061,308
26: 3,033,566
3,039,770
3,042,401
29: 3,065,964
30: 3,043,592
3,062,544
32: 3,025,059
3,041,071
37: 3,025,060
3,039,771
3,059,924
39: 3,022,074
3,039,772
41: 3,053,536
3,063,715
42: 3,050,306
43: 3,017,184
3,018,103
3,031,190
3,043,593
3,044,775
3,048,397
3,048,398
3,051,483
3,051,484
3,056,604
3,058,745
3,061,309
3,062,545
3,063,716
3,064,973
3,064,974
3,065,965
3,068,004
3,068,005
3,069,164
3,070,369
44: 3,019,020
47: 3,015,489
3,030,110
3,042,402
3,042,403
3,063,717
3,069,165
49: 3,016,241
3,018,104
3,059,925
3,068,006
51: 3,046,012
53: 3,019,021
54: 3,018,105
3,033,567
3,034,787
3,036,831
3,038,723
3,041,072
3,051,485
3,051,486
3,058,746
3,062,546
55: 3,042,404
3,044,776
3,062,547
3,062,548
3,063,718
58: 3,056,603
59: 3,046,013
61: 3,039,773
63: 3,039,774
3,055,661
3,068,007
64: 3,046,014
72: 3,048,399
73: 3,059,926
78: 3,061,310
80: 3,037,770
3,042,405
3,064,975
3,066,936
81: 3,070,370
81.3: 3,062,549
82: 3,018,106
3,025,061
3,025,062
3,037,771
3,044,777
3,048,400
3,065,966
85: 3,041,073
3,055,662
3,056,605
3,059,927
3,066,937
86: 3,049,351
3,068,008
87: 3,068,009
87.2: 3,051,487
87.4: 3,050,307
3,054,615
89: 3,069,166
93: 3,022,075
94: 3,043,594
3,046,015
95: 3,031,191
3,032,345
3,059,928
96: 3,017,185
3,036,832
3,049,352
3,059,929
3,061,311
3,062,550
98: 3,031,192
3,038,724
101: 3,033,568
3,066,938
102: 3,016,242
3,034,788
3,048,401
3,066,939
102.1: 3,029,077
3,037,772
3,041,074
3,059,930
3,064,976
102.2: 3,022,076
3,023,002
3,024,025
3,057,622
103: 3,036,833
105: 3,035,838
3,051,488
105.3: 3,030,111
3,065,967
105.6: 3,020,047
106: 3,026,110
106.5: 3,021,138
3,021,139
3,022,077
3,034,789
3,042,406
3,062,551
3,064,977
3,066,940
110: 3,061,312
118: 3,026,111
3,030,790
3,043,595
119: 3,023,003
3,033,569
3,038,725
3,048,402
3,064,978
122: 3,050,308
125: 3,029,078
3,044,778
126: 3,027,162
3,033,570
3,042,407
3,063,719
3,065,968
3,068,167
127: 3,033,571
3,059,931
130: 3,021,140
3,023,004
3,024,026
3,046,016
3,046,017
3,048,403
3,069,168
131: 3,048,404
3,065,969
134: 3,025,063
3,037,773
3,044,779
3,057,623
3,058,747
135: 3,016,243
3,033,572
3,042,408
3,064,979
3,070,371
136: 3,018,107
3,023,005
3,023,006
3,030,112
3,031,193
3,033,834
3,039,775
3,051,489
3,057,624
137: 3,053,537
138: 3,023,720
139: 3,053,538
3,061,313
142: 3,046,018
3,052,472
144: 3,044,780
146: 3,017,186
147: 3,036,835
148: 3,037,774
3,051,490
3,057,625
152.1: 3,068,010
153: 3,033,573
160: 3,065,970
161: 3,023,007
163: 3,019,022
3,033,574
3,043,596
164: 3,035,839
3,039,776
3,042,409
165: 3,036,836
167: 3,020,048
171: 3,037,775
3,064,980
174: 3,068,011
176: 3,038,726
177: 3,019,023
3,048,405
3,065,971
178: 3,027,163
3,070,372
179: 3,030,113
180: 3,018,108
182: 3,037,776
3,049,353
183: 3,025,064
3,063,721
3,070,373
186: 3,018,109
3,020,049
3,037,777
3,037,778
187: 3,041,075
189: 3,069,169
190: 3,059,932
193: 3,033,575
3,041,781
194: 3,021,141
199: 3,069,170
200: 3,051,491
210: 3,063,722
213: 3,031,194
230: 3,053,539
235: 3,034,791

Class 274

1: 3,021,142
3,028,160
3,046,019
3,049,354
3,038,748
3,062,552
2: 3,037,779
4: 3,016,244
3,021,143
3,025,065
3,053,540
3,070,374
9: 3,018,110
3,018,111
3,027,164
3,030,114
3,031,195
3,047,296
3,065,972
10: 3,015,490
3,020,050
3,021,144
3,023,008
3,023,009
3,030,115
3,030,116
3,033,576
3,034,792
3,034,793
3,038,727
3,038,728
3,042,410
3,043,597
3,044,782
3,046,020
3,046,021
3,046,022
3,048,406
3,050,309
3,055,663
3,058,749
3,064,981
3,066,941
3,069,171
11: 3,015,491
3,021,145
3,054,616
14: Re.25,197
3,017,187
3,042,411
3,046,023
3,051,492
15: 3,017,188
3,034,794
3,055,664
17: 3,029,080
3,039,777
3,056,606
3,059,933
23: 3,020,051
3,028,161
3,031,196
3,042,412
3,044,783
3,046,024
3,048,407
3,051,493
3,051,494

Class 274—Con.

23: 3,059,934
37: 3,028,162
3,051,495
39: 3,025,066
3,034,795
3,044,784
3,047,297
3,048,408
41.4: 3,022,078
3,022,079
3,023,010
42: 3,035,840
3,042,413
3,051,496
46: 3,019,024
3,023,011

Class 275

3: 3,048,409
5: 3,063,723
6: 3,025,067
3,036,837
3,037,780
3,069,172
7: 3,046,025
3,057,626
3,059,935
8: 3,017,189
3,019,025
3,025,068
3,041,076
3,055,665
3,063,724
3,070,375
14: 3,070,376
15: 3,038,729

Class 277

1: 3,058,750
3,062,553
2: 3,054,617
3: 3,021,146
3,026,112
3,033,577
3,035,841
3,039,778
3,051,497
3,057,627
3,061,314
3,062,554
3,069,173
4: 3,026,113
3,030,117
3,030,118
3,038,730
3,047,298
3,063,725
5: 3,061,315
10: 3,048,410
3,058,751
3,061,316
11: 3,042,414
12: 3,024,048
3,028,181
3,034,796
3,063,726
16: 3,019,026
3,031,197
22: 3,025,069
3,038,731
3,042,415
25: 3,042,417
3,055,666
27: 3,024,027
3,047,299
3,068,012
28: 3,034,797
30: 3,039,779
3,042,416
3,050,310
31: 3,023,012
32: 3,017,190
3,054,618
3,061,317
34: 3,038,732
36: 3,022,080
37: 3,021,161
39: 3,022,081
3,025,070
3,057,628
3,061,318
41: 3,023,013
3,050,319
42: 3,018,112
3,031,198
43: 3,024,028
3,027,165
3,059,936
48: 3,069,174
3,069,175
53: 3,018,113
3,021,147
58: 3,021,148
59: 3,029,081
3,044,785
3,054,619
62: 3,066,942
63: 3,028,163
3,068,013
67: 3,053,541
68: 3,026,114
3,068,014
70: 3,044,786
3,052,474
74: 3,048,411
3,052,473
3,063,727
3,069,176
3,070,377
75: 3,048,412
78: 3,023,014
3,033,578
81: 3,068,015
82: 3,017,191
83: 3,044,787
86: 3,031,199
3,043,598
87: 3,070,378
89: 3,020,052
91: 3,033,579
92: 3,035,842
3,061,319
93: 3,051,498
3,052,475
3,069,177
94: 3,049,355
95: 3,048,413
3,055,667
3,064,982
96: 3,068,016
102: 3,047,300
105: 3,062,555
110: 3,059,937
112: 3,025,087
3,027,166
3,028,164
3,069,178
115: 3,053,542
3,062,556
117: 3,033,580
3,047,301
3,068,017
119: 3,055,668
125: 3,039,780
130: 3,035,843
3,048,414
3,059,938
3,069,179
131: 3,044,788
132: 3,035,844
133: 3,022,097
136: 3,029,082
137: 3,020,053
139: 3,024,029
3,055,669
3,066,943
140: 3,051,499
142: 3,061,320
154: 3,053,543
156: 3,066,944
157: 3,038,733
3,050,311
160: 3,056,607
164: 3,029,083
165: 3,057,629
3,057,630
3,068,018
168: 3,032,346
3,055,670
169: 3,033,581
3,064,983
170: 3,020,054
3,042,431
3,048,415
3,056,608
171: 3,027,167
3,041,077
3,046,026
3,058,752
174: 3,041,091
3,052,476
3,069,180
176: 3,059,939
177: 3,031,200
178: 3,064,984
180: 3,033,582
3,046,027
3,053,544
3,061,321
182: 3,037,781
3,059,940
183: 3,049,356
3,049,357
187: 3,020,055
188: 3,049,370
3,050,354
189: 3,052,477
190: 3,059,941
202: 3,053,545
206: 3,028,165
208: 3,046,028
3,050,312
209: 3,052,478
212: 3,038,788
3,049,385
3,062,557
215: 3,027,168
3,029,084
225: 3,054,620
228: 3,051,500
231: 3,028,166
237: 3,020,056

Class 278

1: 3,022,082
3,032,347
3,038,734
3,056,609
2: 3,017,192
3,026,115
3,036,838
3,044,789
3,048,416
3,052,313
3,057,631
3,065,973
3: 3,052,479
4: 3,018,114
3,021,057
3,021,071
3,025,072
3,030,119
3,033,583
3,064,985
8: 3,027,169
14: 3,023,015
19: 3,028,167
20: 3,024,030
22: 3,027,170
24: 3,036,839
30: 3,019,027
35: 3,070,379
37: 3,046,029
42: 3,034,798
46: 3,030,120
3,050,314
47: 3,035,845
48: 3,026,116
50: 3,042,418
51: 3,041,078
3,055,671
3,070,380
55: 3,022,083
57: 3,028,168
59: 3,037,782
61: 3,044,790
66: 3,064,986
75: 3,039,781
78: 3,032,348
79: 3,024,031
81: 3,024,032
83: 3,022,084
97: 3,030,121
102: 3,037,783
3,049,358
3,070,381
103: 3,042,419
3,070,382
106: 3,016,245
3,041,079
3,044,791
3,069,181
110: 3,054,621
114: 3,028,169
3,031,201
116: 3,023,016
118: 3,018,115
123: 3,020,058
3,021,149
3,028,170
3,061,322

Class 280

1.1: 3,048,417
1.14: 3,017,193
3,055,672
1.175: 3,064,987
1.177: 3,046,030
1.183: 3,027,171
1.188: 3,051,501
1.194: 3,026,117
5: 3,025,073
3,043,599
3,050,315
3,051,502
3,058,753
5: 3,059,942
3,064,988
3,065,974
5.26: 3,058,754
5.3: 3,053,546
3,061,323
6: 3,052,480
6.1: 3,033,584
7.1: 3,052,481
7.13: 3,043,600
8: 3,046,031
11.12: 3,027,172
3,041,080
3,061,324
11.13: 3,048,418
3,063,728
11.18: 3,026,119
3,036,840
11.19: 3,046,032
11.2: 3,016,246
3,028,171
3,035,846
11.26: 3,037,784
11.28: 3,024,033
11.3: 3,026,118
11.35: 3,023,017
3,027,173
3,029,085
3,037,785
3,039,782
3,044,792
3,052,482
3,055,673
3,061,325
11.37: 3,047,302
11.38: 3,015,492
12: 3,022,085
3,026,120
3,030,122
3,044,793
3,047,303
13: 3,070,383
15: 3,043,601
16: 3,024,034
3,026,121
3,033,585
3,042,420
3,051,503
3,057,633
3,057,634
18: 3,017,194
3,034,799
3,034,800
20: 3,061,326
26: 3,030,123
28.5: 3,029,086
3,052,483
30: 3,022,086
3,041,081
31: 3,048,419
33.99: 3,015,493
3,015,494
3,023,018
3,026,122
3,027,174
3,039,783
78: 3,032,348
79: 3,024,031
81: 3,024,032
83: 3,022,084
97: 3,030,121
102: 3,037,783
3,049,358
3,070,381
103: 3,042,419
3,070,382
106: 3,016,245
3,041,079
3,044,791
3,069,181
110: 3,054,621
114: 3,028,169
3,031,201
116: 3,023,016
118: 3,018,115
123: 3,020,058
3,021,149
3,028,170
3,061,322

Class 280

1.1: 3,048,417
1.14: 3,017,193
3,055,672
1.175: 3,064,987
1.177: 3,046,030
1.183: 3,027,171
1.188: 3,051,501
1.194: 3,026,117
5: 3,025,073
3,043,599
3,050,315
3,051,502
3,058,753
47.13: 3,036,841
3,055,674
47.2: 3,064,990
47.21: 3,063,730
47.24: 3,041,084
3,064,991
47.26: 3,051,505
47.27: 3,046,035
47.34: 3,023,021
47.35: 3,037,786
47.37: 3,029,087
3,038,737
3,041,085
47.38: 3,056,611
47.4: 3,024,035
62: 3,029,088
3,048,420
79.1: 3,024,036
3,066,946
79.2: 3,025,075
3,035,848
3,057,638
79.3: 3,064,992
80: 3,066,947
81: 3,036,842
3,042,421
3,043,605
3,044,795
3,044,796
3,047,306
3,048,421
3,051,506
3,057,639
81.5: 3,048,422
87: 3,015,495
3,021,150
3,063,731
87.01: 3,026,123
3,035,849
3,069,182
87.02: 3,039,784
3,044,797
3,059,943
78.04: 3,023,022
91: 3,018,116
3,055,675
93: 3,064,993
3,069,183
95: 3,020,060
3,028,172
3,031,202
3,035,850
3,038,738
3,039,785
3,039,786
3,044,798
3,047,307
3,059,944
96.1: 3,027,175
3,033,586
96.2: 3,026,124
3,028,173
3,033,587
3,033,588
3,034,802
3,036,843
3,037,787
3,039,787
3,039,788
3,042,422
3,055,676
3,057,640
3,061,329
103: 3,068,019
104: 3,020,061
3,024,037
3,025,076
3,032,349
3,050,316
3,054,624
104.5: 3,017,195
3,022,087
3,024,038
3,031,203
3,033,589
3,039,789
3,043,606
3,046,036
3,055,677
3,055,678
3,057,641
3,066,948
3,069,184
106: 3,042,423
106.5: 3,024,039
3,024,040
3,024,041
3,042,424
3,068,020
111: 3,047,308
3,068,021
112: 3,016,247
3,020,062
3,023,023
3,035,851
112: 3,038,739
3,044,799
3,053,547
124: 3,017,196
3,017,197
3,019,029
3,019,030
3,021,151
3,021,152
3,021,153
3,022,088
3,025,077
3,025,078
3,025,079
3,026,125
3,027,176
3,027,177
3,028,174
3,028,175
3,029,089
3,029,090
3,029,091
3,031,204
3,032,350
3,033,590
3,033,591
3,034,803
3,035,852
3,035,853
3,036,844
3,037,788
3,037,789
3,037,790
3,041,086
3,043,607
3,047,309
3,049,359
3,049,360
3,049,361
3,049,362
3,051,507
3,053,548
3,054,625
3,057,642
3,061,330
3,061,331
3,062,558
3,063,732
3,063,733
3,064,994
3,064,995
3,065,976
3,068,022
3,068,023
3,069,185
145: 3,033,592
150: 3,015,496
3,015,497
3,022,089
3,023,024
3,032,351
3,032,352
3,042,425
3,043,608
3,044,800
3,049,363
3,061,331
3,065,949
150.5: 3,020,063
3,024,042
3,028,176
154.5: 3,019,031
3,027,178
3,031,208
3,057,643
3,059,945
159: 3,058,757
179: 3,038,740
3,052,485
3,053,549
3,066,950
202: 3,017,198
3,044,801
3,062,559
206: 3,066,951
208: 3,062,560
211: 3,049,364
3,052,486
218: 3,023,025
3,023,026
221: 3,035,854
226: 3,025,080
248: 3,053,550
251: 3,039,790
256: 3,044,802
259: 3,039,791
261: 3,047,310
269: 3,017,199
278: 3,015,498
281: 3,030,124
289: 3,023,027
3,063,735
3,063,736
302: 3,039,792
402: 3,020,064
404: 3,070,386
405: 3,037,791
3,062,561
406: 3,021,154
407: 3,030,125
408: 3,049,365
411: 3,023,028
3,028,177
3,062,562
412: 3,038,741
3,064,996
414: 3,022,090
3,032,353
3,058,756
3,068,024
414.5: 3,063,737
415: 3,061,332
3,066,952
418: 3,066,953
423: 3,021,155
3,043,609
3,066,954
3,066,955
425: 3,030,126
3,041,087
426: 3,048,423
432: 3,031,205
3,036,845
3,037,792
433: 3,061,206
3,044,803
434: 3,022,091
3,034,804
3,034,805
3,056,612
3,063,738
438: 3,063,739
3,066,956
439: 3,020,065
3,035,855
440: 3,037,793
443: 3,032,354
444: 3,053,551
446: 3,063,740
449: 3,037,794
456: 3,015,499
460: 3,031,207
3,031,208
3,033,593
3,065,977
461: 3,053,552
462: 3,061,563
477: 3,017,200
3,029,092
3,046,037
478: 3,019,032
3,054,626
3,057,644
479: Re.25,168
3,022,092
482: 3,019,033
490: 3,019,117
3,035,856
3,061,333
502: 3,043,610
506: 3,018,118
3,052,487
510: 3,020,066
512: 3,046,038
3,049,366
513: 3,061,334

Class 281

4: 3,055,679
5: 3,047,311
8: 3,024,043
11: 3,031,209
16: 3,028,178
17: 3,021,156
3,025,081
21: 3,025,082
25: 3,022,093
29: 3,020,067
3,038,742
3,044,804
3,059,946
34: 3,017,201
3,065,978
42: 3,055,680
44: 3,026,126
3,048,424

Class 282

3: 3,046,039
11.5: 3,065,979
3,066,957
19: 3,048,425
22: 3,022,094
3,032,355
3,037,795
3,055,681
23: 3,048,426

23: 3,058,758
3,061,335

Class 283

1: 3,026,127
3,034,806
36: 3,047,312
57: 3,057,645
62: 3,042,426
63: 3,050,317
66: 3,019,034

Class 284

2: 3,039,793
16: 3,031,210
19: 3,023,029
3,024,044
3,035,857
3,039,794

Class 285

3: 3,032,356
3,037,796
3,056,613
5: 3,068,025
7: 3,049,367
3,069,186
18: 3,019,035
3,019,036
3,023,030
3,025,183
3,026,128
3,037,797
3,052,488
21: 3,024,045
3,051,509
22: 3,064,997
31: 3,051,510
3,053,553
33: 3,034,807
3,041,088
39: 3,056,614
41: 3,017,202
3,057,646
3,062,564
45: 3,022,095
3,044,805
47: 3,015,500
3,047,313
3,058,759
3,068,026
50: 3,018,119
51: 3,035,743
55: 3,018,120
3,020,068
3,047,314
58: 3,015,501
61: 3,066,958
69: 3,023,031
3,052,489
81: 3,029,093
3,048,427
3,066,959
84: 3,061,336
89: 3,016,248
91: 3,030,127
93: 3,025,084
94: 3,041,089
96: 3,036,846
97: 3,033,594
101: 3,064,998
104: 3,024,046
106: 3,051,511
110: 3,069,187
112: 3,015,502
114: 3,029,094
3,032,357
3,051,512
3,053,554
3,066,960
3,070,387
115: 3,031,211
134: 3,061,337
137: 3,020,069
3,041,090
3,062,565
3,062,566
139: 3,048,428
140: 3,042,427
142: 3,038,744
144: 3,068,027
146: 3,051,513
148: 3,038,745
149: 3,055,682
3,064,999
3,068,028
156: 3,023,032
158: 3,055,683

164: 3,022,096
3,043,611
173: 3,042,428
177: 3,065,000
3,065,001
184: 3,026,129
185: 3,030,128
187: 3,023,033
3,033,595
3,056,615
189: 3,052,490
3,062,567
192: 3,031,212
193: 3,025,085
196: 3,058,760
201: 3,026,130
202: 3,061,338
215: 3,051,514
226: 3,019,037
3,043,612
228: 3,051,515
230: 3,066,961
233: 3,031,213
3,052,491
235: 3,034,808
3,039,795
236: 3,061,339
239: 3,037,798
243: 3,019,038
247: 3,032,358
248: 3,030,129
3,030,130
250: 3,025,086
256: 3,017,203
261: 3,033,596
267: 3,034,809
269: 3,047,315
274: 3,031,214
277: 3,032,359
281: 3,058,761
282: 3,037,799
283: 3,063,741
291: 3,054,627
315: 3,065,002
317: 3,028,179
321: 3,027,179
3,062,742
332 1: 3,056,616
332 2: 3,024,047
332 3: 3,054,628
333: 3,062,568
334: 3,042,429
3,047,316
3,050,318
336: 3,016,249
340: 3,058,762
341: 3,056,617
342: 3,016,250
3,055,684
3,069,188
343: 3,039,796
347: 3,055,685
348: 3,028,180
365: 3,042,430
368: 3,058,763
373: 3,017,204
3,054,629
395: 3,039,797
410: 3,059,947
411: 3,029,095
3,070,388

Class 286

7: 3,015,503
11: 3,016,251
11. 13: 3,015,504
3,015,505
11. 14: 3,015,506

Class 287

3: 3,031,215
12: 3,059,948
14: 3,021,158
3,034,810
3,041,092
20: 3,015,507
3,018,121
3,044,806
3,050,320
3,053,555
3,059,949
3,065,003
3,065,004
20. 2: 3,015,508
3,038,746
3,065,980
20. 3: 3,037,800
3,039,798
3,049,368
3,058,764

20. 5: 3,049,369
3,061,340
3,070,389
49: 3,017,205
3,044,807
51: 3,042,432
3,055,686
52: Re.25,219
3,016,252
3,023,034
3,023,035
3,028,182
3,042,433
3,065,005
52. 02: 3,047,317
52. 03: 3,023,036
52. 05: 3,031,216
3,062,569
52. 06: Re.25,224
3,027,180
3,043,613
52. 07: 3,022,098
3,034,811
52. 08: 3,017,206
3,047,318
3,048,429
53: 3,017,207
3,019,039
3,019,040
3,022,099
3,030,131
3,033,597
3,036,847
3,041,093
3,044,808
3,044,809
3,044,810
3,048,430
3,050,321
3,051,516
3,052,492
3,061,341
3,061,342
3,063,743
3,070,390
53. 5: 3,017,208
3,027,181
3,034,812
3,054,630
54: 3,016,253
3,020,070
3,021,159
3,025,088
3,025,089
3,031,217
3,033,598
3,039,799
3,046,040
3,051,517
3,062,570
3,062,571
3,065,981
3,066,962
3,068,029
3,068,030
3,069,189
58: 3,018,122
3,033,599
3,035,858
3,042,434
3,046,041
3,051,518
3,061,343
3,065,982
59: 3,018,123
60: 3,051,519
3,065,006
3,065,007
3,065,983
61: 3,065,008
62: 3,039,800
3,044,811
77: 3,023,037
78: 3,015,509
85: 3,018,124
3,030,132
3,055,687
86: 3,018,125
87: 3,039,209
3,019,041
3,023,038
3,024,049
3,025,090
3,027,182
3,028,183
3,041,094
3,053,556
3,059,950
3,061,344
3,063,744
3,066,963
88: 3,030,133

88: 3,030,134
90: 3,021,157
3,024,050
3,034,813
3,047,319
3,058,765
3,059,951
3,062,572
3,068,031
3,068,032
91: 3,030,135
3,031,218
3,044,812
3,053,557
93: 3,015,136
3,055,688
99: 3,018,126
103: 3,022,100
3,031,219
3,034,814
3,048,431
3,062,573
3,065,009
3,065,984
104: 3,034,815
105: 3,036,848
108: 3,019,042
3,032,360
110: 3,057,647
114: 3,017,210
3,033,600
103: 3,065,985
115: 3,024,051
117: 3,065,010
118: 3,069,190
119: 3,021,160
3,023,039
3,023,040
3,024,052
3,041,095
3,043,614
3,053,558
3,053,559
3,061,345
3,065,011
3,069,191
3,070,391
3,070,392
126: 3,028,184
3,048,432
3,056,618
127: 3,048,433
3,048,434
3,069,192
130: 3,070,393

Class 288

23: 3,015,510
3,016,254

Class 289

2: 3,028,185
3: 3,017,211
11: 3,041,096
17: 3,043,615
3,057,648

Class 290

1: 3,025,407
3,025,408
3,042,808
3,054,903
2: 3,024,366
3,048,703
3,061,733
3,070,703
4: 3,030,517
3,047,724
3,056,036
3,067,334
3,070,704
31: 3,029,350
36: 3,030,518
3,037,124
3,047,725
37: 3,043,963
3,046,408
3,053,989
3,054,904
38: 3,041,463
3,062,966
40: 3,022,425
3,027,463
3,040,181
3,046,409
3,053,990
3,070,705
52: 3,039,007
53: 3,064,137
55: 3,047,726

Class 291

11: 3,020,071
3,020,072
15: 3,034,816
25: 3,032,361

Class 292

1: 3,046,042
3: 3,043,616
5: 3,052,493
6: 3,043,617
11: 3,026,131
3,026,132
3,039,801
17: 3,038,747
3,061,346
19: 3,039,802
21: 3,024,053
66: 3,021,162
3,054,631
70: 3,015,511
3,055,689
74: 3,057,649
75: 3,031,220
76: 3,037,801
78: 3,041,098
79: 3,070,394
99: 3,053,560
100: 3,033,601
103: 3,065,985
111: 3,048,435
3,061,347
113: 3,019,043
3,026,133
3,030,137
3,034,817
3,041,097
3,070,395
114: 3,022,101
3,050,322
126: 3,024,054
3,044,814
128: 3,035,859
3,049,371
139: 3,025,091
140: 3,027,183
144: 3,069,193
147: 3,021,163
153: 3,037,802
155: 3,050,323
163: 3,025,092
169: 3,020,073
3,022,102
3,024,055
173: 3,044,815
3,066,964
175: 3,046,043
177: 3,024,056
202: 3,017,212
3,061,348
203: 3,047,320
204: 3,025,093
212: 3,023,041
3,065,012
213: 3,042,435
216: 3,027,184
3,031,221
3,049,372
218: 3,050,325
219: 3,021,164
221: 3,042,436
3,043,816
223: 3,047,321
3,051,520
224: 3,066,965
228: 3,047,322
241: 3,043,849
244: 3,036,850
3,063,745
245: 3,047,323
246: 3,066,966
247: 3,031,396
251: 3,018,127
251. 5: 3,026,134
3,039,803
3,050,324
3,055,690
259: 3,041,099
275: 3,019,044

276: 3,023,042
280: 3,020,074
3,027,185
3,033,602
3,034,818
3,047,324
3,047,325
3,062,576
3,065,013
281: 3,035,861
288: 3,054,632
3,059,952
293: 3,039,806
300: 3,054,633
302: 3,034,862
304: 3,026,135
3,061,349
307: 3,034,819
3,062,577
317: 3,038,033
332: 3,065,986
336: 3,029,096
3,058,766
336. 3: 3,020,075
3,020,076
3,025,095
3,026,136
3,038,748
3,041,100
3,044,817
3,054,634
337: 3,026,137
3,038,749
3,048,436
3,055,691
341. 15: 3,047,326
3,056,619
346: 3,039,807
347: 3,069,194
352: 3,016,255
353: 3,019,045
356: 3,065,014
357: 3,017,213
358: 3,042,437
359: 3,025,096
3,047,327

Class 293

66: 3,043,618
71: 3,056,620

Class 294

1: 3,015,512
5. 5: 3,033,603
3,056,621
11: 3,042,438
15: 3,050,326
3,059,953
16: 3,055,692
3,059,954
3,061,350
3,066,967
19: 3,029,097
3,032,362
3,038,751
3,038,752
3,046,044
3,058,767
3,059,955
3,065,015
21: 3,039,195
26: 3,041,101
3,055,693
30: 3,042,439
31: 3,017,214
3,023,043
3,065,016
3,065,017
3,065,018
31. 2: 3,017,215
3,056,622
3,058,768
34: 3,024,057
49: 3,020,077
50. 5: 3,050,327
50. 9: 3,042,440
55: 3,026,138
59: 3,047,328
62: 3,057,651
63: 3,020,078
3,030,138
3,066,968
3,069,196
64: 3,033,604
3,061,351
3,063,746
65: 3,055,694
3,061,352
3,062,578
65. 5: 3,020,079

65. 5: 3,032,363
66: 3,066,969
67: 3,016,256
3,024,058
3,028,186
3,055,695
3,061,353
3,065,987
69: 3,039,808
3,047,329
74: 3,018,128
3,021,166
3,022,104
3,042,441
3,046,045
3,061,354
75: 3,050,328
76: 3,020,080
3,039,809
81: 3,044,818
82: 3,032,364
3,037,803
3,037,804
3,039,810
3,039,811
83: 3,015,513
3,016,257
3,016,258
3,028,187
3,028,188
3,032,365
3,036,852
3,037,805
3,038,753
3,039,811
3,051,521
3,054,635
3,055,696
3,055,697
3,056,623
3,056,624
3,057,652
3,057,653
3,059,956
3,061,355
3,066,970
3,066,971
3,068,034
86: 3,015,514
3,017,216
3,020,081
3,021,167
3,029,098
3,043,619
3,057,654
87: 3,020,082
87. 2: 3,016,259
3,028,189
3,036,853
3,065,988
87. 22: 3,055,561
88: 3,016,260
3,021,168
3,023,044
3,025,097
3,035,820
3,034,821
3,034,822
3,036,854
3,039,812
3,044,819
90: 3,055,698
3,061,356
92: 3,042,442
93: 3,052,494
94: 3,038,754
97: 3,033,605
102: 3,029,099
3,032,366
3,036,855
3,068,035
103: 3,032,367
3,037,806
104: 3,068,036
106: 3,029,100
3,055,625
3,061,357
110: 3,031,222
3,041,102
115: 3,021,169
118: 3,028,190
3,043,620

Class 295

7: 3,044,820
8. 5: 3,059,957
21: 3,038,755

Class 296

1: 3,033,606
3,039,813

Class 296—Con.

1: 3,048,437
3,050,329
3,068,037
3: 3,032,368
3,042,443
10: 3,019,046
3,037,807
12: 3,029,101
20: 3,057,655
23: 3,021,170
3,024,059
3,032,369
3,046,047
3,047,330
3,050,330
3,058,769
3,062,579
3,065,019
24: 3,015,515
3,020,083
3,021,171
3,030,139
3,044,821
3,047,331
3,068,038
3,070,398
26: 3,053,562
3,061,358
3,061,359
3,070,399
27: 3,048,438
3,050,331
3,053,563
28: 3,019,047
3,021,172
3,022,105
3,024,060
3,027,186
3,027,187
3,028,191
3,028,192
3,029,102
3,031,223
3,031,224
3,034,823
3,034,824
3,036,856
3,036,857
3,037,808
3,042,444
3,044,822
3,052,495
3,054,636
3,055,699
3,056,627
3,058,770
3,061,360
3,061,361
3,061,376
3,068,039
3,068,040
3,068,041
3,068,042
3,070,400
29: 3,022,106
31: 3,023,045
3,068,043
35: 3,018,129
3,028,193
3,032,370
3,044,825
3,059,958
37: 3,022,107
3,058,771
43: 3,041,103
3,058,772
44: 3,015,516
3,019,048
3,024,061
3,024,062
3,033,607
3,034,826
3,035,863
3,038,756
3,038,757
3,044,823
3,050,332
3,052,496
3,052,497
3,053,564
3,059,959
3,061,362
3,061,363
3,068,044
3,068,045
3,069,197
46: 3,016,261
49: 3,055,700
51: 3,020,084
3,027,188
56: 3,026,139
57: 3,022,108
3,031,225
57: 3,054,160
3,063,747
64: 3,050,333
65: 3,059,960
3,065,020
66: 3,053,565
68: 3,051,522
84: 3,026,140
3,037,809
91: 3,015,517
3,015,518
3,063,748
93: 3,037,810
95: 3,046,048
3,048,439
3,066,972
3,068,046
97: 3,016,262
3,017,217
3,021,173
3,022,109
3,025,098
3,029,103
3,032,371
3,035,864
3,042,445
3,046,049
3,056,626
3,059,961
3,066,973
3,069,198
100: 3,024,063
3,041,104
3,051,523
3,051,524
3,052,498
3,066,974
3,069,199
102: 3,036,858
3,065,021
3,070,401
106: 3,017,218
3,049,373
3,053,566
107: 3,021,174
3,030,140
3,050,334
3,053,567
116: 3,036,859
3,047,332
117: 3,057,656
3,059,962
137: 3,015,519
3,016,263
3,019,049
3,025,099
3,028,194
3,031,226
3,033,608
3,033,609
3,036,860
3,042,446
3,044,824
3,044,825
3,050,335
3,050,336
3,055,701
3,056,628
3,061,364
3,065,022
3,066,975
3,066,976

Class 297

4: 3,054,637
3,062,580
5: 3,059,963
13: 3,059,964
28: 3,037,811
32: 3,047,333
33: 3,048,440
35: 3,029,104
3,058,773
39: 3,047,334
3,061,365
41: 3,025,100
42: 3,054,638
66: 3,025,101
58: 3,021,175
3,042,447
60: 3,030,141
61: 3,021,098
3,024,064
3,033,610
3,057,657
3,065,023
64: 3,052,499
68: 3,039,814
84: 3,039,815
85: 3,041,105
3,043,621
3,047,335
85: 3,047,336
3,069,200
3,069,201
88: 3,016,265
3,030,142
3,033,611
3,033,612
3,039,816
3,044,826
3,055,702
3,057,632
3,057,658
3,061,366
3,065,989
3,068,047
89: 3,028,195
3,030,143
3,030,144
3,032,372
3,041,106
3,047,336
3,061,367
3,062,581
3,065,024
3,065,025
3,065,990
111: 3,053,569
113: 3,025,102
116: 3,028,196
118: 3,046,050
3,055,704
3,061,368
3,062,582
3,062,583
122: 3,058,776
124: 3,028,197
3,061,369
130: 3,052,500
135: 3,017,219
144: 3,018,130
146: 3,049,374
150: 3,016,266
153: 3,020,085
3,066,977
156: 3,023,046
157: 3,047,337
159: 3,055,705
162: 3,024,065
170: 3,020,086
3,034,827
3,057,659
171: 3,025,103
174: 3,059,965
180: 3,030,145
3,039,817
184: 3,027,189
189: 3,029,105
191: 3,044,828
192: 3,026,141
194: 3,061,370
3,068,048
195: 3,066,978
216: 3,028,198
3,059,966
217: 3,019,050
3,029,106
3,035,865
218: 3,019,051
3,025,104
219: 3,033,613
220: 3,063,749
225: Re.25,133
229: 3,065,991
232: 3,027,190
239: 3,025,105
3,031,227
240: 3,043,622
3,066,979
244: 3,020,087
248: 3,018,131
3,022,110
3,024,066
3,025,106
3,041,107
252: 3,025,107
3,026,142
3,066,980
254: 3,023,047
256: 3,061,371
258: 3,026,143
260: 3,019,052
263: 3,053,570
264: 3,039,818
273: 3,043,623
275: 3,019,053
277: 3,039,819
300: 3,053,571
301: 3,042,448
303: 3,043,624
3,049,375
306: 3,027,191
3,034,828
3,046,051
307: 3,034,829
308: 3,027,192
3,039,820
309: 3,059,967
3,061,372
312: 3,057,660
313: 3,051,525
316: 3,056,629
317: 3,066,981
320: 3,049,376
321: 3,059,968
3,059,969
322: 3,065,026
323: 3,031,228
327: 3,025,108
330: 3,023,048
331: 3,033,614
337: 3,046,052
343: 3,039,821
344: Re.25,239
3,044,829
3,046,053
353: 3,046,054
3,055,630
3,059,970
3,059,971
355: 3,024,067
3,036,861
3,037,812
3,063,750
3,069,202
357: 3,020,088
3,047,338
358: 3,055,706
361: 3,044,830
3,046,055
366: 3,042,449
367: 3,036,862
3,051,526
371: 3,015,520
3,032,373
374: 3,036,863
3,062,584
377: 3,018,132
378: 3,031,108
379: 3,028,199
383: 3,054,641
385: 3,046,056
388: 3,020,089
3,032,374
3,065,027
389: 3,028,200
3,043,625
3,062,585
390: 3,017,220
3,031,229
3,037,813
3,054,642
3,065,028
391: 3,027,193
3,065,029
397: 3,017,221
3,017,222
3,018,133
3,043,626
3,046,057
399: 3,029,107
3,042,450
3,062,586
403: 3,055,707
410: 3,027,194
3,063,751
411: 3,063,752
418: 3,027,195
3,061,373
420: 3,029,108
421: 3,027,196
3,070,402
422: 3,030,146
3,042,451
425: 3,026,144
426: 3,015,521
3,023,049
427: 3,018,134
432: 3,031,230
433: 3,021,889
439: 3,016,267
3,051,527
3,065,992
440: 3,032,375
3,054,643
3,058,777
3,061,374
443: 3,066,982
444: 3,037,814
445: 3,034,830
3,038,758
3,055,708
3,065,030
449: 3,041,109
450: 3,065,031
451: 3,041,110
3,057,661
452: 3,021,176
3,030,147
3,058,778
453: 3,028,201
3,063,753
3,069,203
454: 3,035,866
3,044,831
455: 3,024,068
3,026,145
456: 3,030,148
3,030,149
3,043,627
3,049,377
3,069,204
461: 3,029,109
462: 3,023,050
463: 3,036,864
3,048,441
3,057,662

Class 298

1: 3,041,111
3,055,709
2: 3,061,375
5: 3,053,572
3,065,993
3,066,983
6: 3,058,779
8: 3,053,573
11: 3,041,112
3,066,984
14: 3,022,111
3,049,378
17: 3,016,268
3,031,231
3,039,822
3,041,113
17. 5: 3,055,710
18: 3,019,054
20: 3,027,197
3,043,628
21: 3,021,177
3,034,831
22: 3,030,150
3,036,865
3,039,823
3,043,629
23: 3,030,151
3,053,574
3,055,711
24: 3,057,663
26: 3,034,832
38: 3,062,587

Class 300

1: 3,026,146
2: 3,050,337
4: 3,065,994
5: 3,059,972
7: 3,048,442
16: 3,027,198
21: 3,024,069
3,038,759
3,044,833
3,053,575
3,054,450

Class 301

1: 3,037,815
5: 3,017,223
3,017,224
3,046,058
3,047,339
3,056,631
3,063,754
6: 3,016,269
3,042,452
3,043,630
3,043,631
3,049,379
3,051,528
9: 3,025,109
3,048,443
13: 3,061,377
20: 3,039,824
36: 3,039,825
3,068,049
37: Re.25,142
Re.25,144
3,019,055
3,020,090
3,021,178
3,022,112
3,025,110
3,025,111
3,025,112
3,027,199
3,031,232
37: 3,034,833
3,034,834
3,036,866
3,036,867
3,037,816
3,037,817
3,039,826
3,042,453
3,043,632
3,044,834
3,048,444
3,048,445
3,048,446
3,050,338
3,050,339
3,050,340
3,051,529
3,053,576
3,055,712
3,055,713
3,057,664
3,066,985
3,066,986
39: 3,024,070
3,065,995
47: 3,021,179
48: 3,016,270
63: 3,019,056
3,020,091
3,048,447
124: 3,037,818
805. 5: 3,044,123

Class 302

2: 3,042,454
3,062,588
12: 3,041,113
14: 3,023,051
3,030,152
3,035,867
3,038,760
3,046,059
3,057,665
17: 3,030,153
3,047,340
3,069,205
20: 3,022,113
23: 3,061,378
28: 3,050,341
29: 3,024,071
3,035,868
3,061,379
31: 3,056,632
49: 3,053,577
3,058,780
52: 3,019,057
3,020,092
3,020,093
3,024,072
3,039,827
3,048,448
3,048,449
3,048,450
3,050,342
3,069,206
3,069,207
3,069,208
3,070,403
53: 3,019,058
3,034,835
3,049,380
3,050,343
3,052,501
56: 3,021,180
3,062,589
3,065,032
3,065,033
3,065,996
58: 3,018,135
3,031,233
3,062,590
3,065,755
66: 3,019,059

Class 303

2: 3,023,052
3,036,868
3,036,869
3,058,781
5: 3,063,756
6: 3,018,136
3,030,154
3,035,869
3,035,870
3,038,761
3,051,530
3,061,380
3,062,591
3,065,997
7: 3,023,053
3,041,114
8: 3,057,666
3,068,050
9: 3,015,522
3,020,094
10: 3,061,381
11: 3,065,998
14: 3,018,137
20: 3,063,757
21: 3,019,060
3,021,181
3,022,114
3,026,148
3,034,836
3,046,060
3,049,381
3,059,973
22: 3,043,633
3,050,344
24: 3,022,115
26: 3,042,455
28: 3,022,116
29: 3,042,456
3,045,451
3,059,975
36: 3,018,138
39: 3,022,117
40: 3,022,118
49: 3,025,871
53: 3,016,271
3,046,061
3,047,341
3,053,578
3,061,382
3,065,999
3,066,987
54: 3,031,234
3,031,235
3,050,344
3,058,782
60: 3,018,139
3,059,976
67: 3,022,119
69: 3,042,457
3,053,597
3,066,988
71: 3,031,236
82: 3,022,120
3,022,121
84: 3,050,345
89: 3,037,819

Class 305

11: 3,050,346
12: 3,035,872
20: 3,050,347
25: 3,039,828
32: 3,019,061
35: 3,050,348
37: 3,019,062
3,027,200
40: 3,063,758
49: 3,052,502
3,066,633
50: 3,051,531
51: 3,017,225
3,058,783
53: 3,047,342
57: Re.25,137
3,020,095
3,053,579
58: 3,020,096
3,027,201
3,032,376

Class 306

1: 3,058,784
19: 3,016,272
22: 3,031,140
31: 3,023,054

Class 307

2: 3,029,351
3,047,727
10: 3,021,429
3,047,728
3,048,704
3,068,364
11: 3,046,410
14: 3,022,426
17: 3,041,464
18: 3,047,729
20: 3,041,465
3,047,730
33: 3,028,504
34: 3,066,227
35: 3,048,705
38: 3,058,006
43: 3,033,992
3,046,411
46: 3,018,379
52: 3,051,842
54: 3,059,121
57: 3,022,427
3,061,735

57: 3,064,138
58: 3,018,380
3,020,415
3,036,220
3,050,634
3,056,037
3,064,139
64: 3,041,465
3,050,635
3,060,320
3,061,736
3,069,554
66: 3,040,182
3,049,623
77: 3,040,183
80: 3,042,809
82: 3,046,412
3,053,991
87: 3,035,181
3,069,555
3,069,556
88: 3,015,732
3,016,465
3,017,518
3,018,381
3,018,382
3,019,348
3,020,416
3,022,428
3,022,429
3,023,319
3,023,320
3,024,367
3,025,469
3,026,420
3,026,421
3,028,505
3,030,519
3,030,520
3,030,521
3,032,663
3,036,221
3,037,125
3,039,068
3,040,184
3,041,466
3,041,467
3,041,468
3,047,730
3,047,731
3,048,706
3,051,843
3,051,844
3,051,845
3,053,992
3,053,993
3,054,905
3,056,038
3,056,039
3,056,040
3,059,122
3,060,321
3,060,322
3,065,357
3,065,358
3,066,228
3,067,335
3,068,365
3,070,706
3,070,707
3,070,708
88.5: Re.25,262
3,015,733
3,015,734
3,015,735
3,015,736
3,015,737
3,015,738
3,015,739
3,015,740
3,015,741
3,015,742
3,016,466
3,016,467
3,016,468
3,016,469
3,016,470
3,017,519
3,017,520
3,017,521
3,017,522
3,017,523
3,017,524
3,018,383
3,018,384
3,018,385
3,018,386
3,018,387
3,018,388
3,018,389
3,018,390
3,018,391
3,018,392
3,018,393
3,019,349

88.5: 3,019,350
3,019,351
3,019,352
3,019,353
3,019,354
3,019,355
3,020,417
3,020,418
3,020,419
3,020,420
3,020,421
3,021,430
3,021,431
3,021,432
3,021,433
3,021,434
3,021,435
3,021,436
3,021,437
3,021,438
3,021,439
3,021,440
3,023,321
3,023,322
3,023,323
3,023,324
3,023,325
3,023,326
3,024,368
3,024,369
3,024,370
3,025,410
3,025,411
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88.5: 3,039,009
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88.5: 3,054,001
3,054,002
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3,056,041
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3,069,568
3,069,569
3,070,709
3,070,710
3,070,711
3,070,712
3,070,713

89: 3,042,816
90: 3,041,478
93: 3,047,746
3,048,718
94: 3,039,010
106: 3,041,479
3,046,419
3,052,802
3,065,364
108: 3,047,747
3,062,974
109: 3,020,422
110: 3,024,371
3,068,369
114: 3,036,228
115: 3,036,229
3,045,130
3,056,050
3,069,570
117: 3,029,354
118: 3,024,372
3,035,189
132: 3,019,356
3,030,526
3,046,420
3,048,719
3,054,913
3,056,051
3,056,892
136: 3,021,589
141: 3,029,355
3,031,590
3,041,480
3,046,421
3,070,714
141.4: 3,033,999
3,035,190
141.8: 3,023,327
3,030,230
146: 3,061,744
147: 3,015,743
3,046,422
149: 3,060,332
150: 3,024,373
3,056,893
156: 3,034,000
157: 3,019,357

Class 308

3: 3,017,226
3,020,097
3,030,155
3,032,377
3,047,343
3,053,580
3,053,581
3,054,645
3,059,977
3.5: 3,037,820
3.6: 3,027,202
3,059,978
3,062,592
3.8: 3,017,227
3,026,149
3,035,873
3,042,458
3,050,348
3,053,582
4: 3,019,063
3,032,378
3,033,615
3,038,763
3,039,829
3,046,062
3,049,382
3,051,532
3,054,646
3,054,647
3,063,759
3,070,404
6: 3,022,122
3,024,073
3,029,110
3,037,821
3,042,459
3,043,634
3,044,835
3,052,503
3,054,648
3,055,714
3,059,979
3,065,034
3,070,405
8.2: 3,047,344
9: 3,015,523
3,015,524
3,018,141
3,018,142
3,026,150
3,029,111
3,034,837
3,039,830
3,042,460

9: 3,043,635
3,044,836
3,049,383
3,053,583
3,058,785
3,062,593
3,070,406
3,070,407
10: 3,026,151
15: 3,026,152
3,042,461
3,065,035
18: 3,026,153
3,030,156
3,035,874
20: 3,017,228
3,032,379
21: 3,018,143
26: 3,039,831
3,048,452
3,050,349
28: 3,047,345
3,053,584
35: 3,026,154
3,058,786
3,065,036
36.1: 3,025,113
3,053,585
3,053,586
3,062,594
36.2: 3,048,453
36.3: 3,020,098
36.4: 3,038,764
3,044,837
3,048,454
38: 3,019,664
3,027,203
3,027,204
3,028,202
3,061,383
47: 3,015,525
3,062,595
54: 3,033,616
56: 3,020,099
3,020,100
72: 3,016,273
3,020,101
3,034,838
3,037,822
3,063,761
73: 3,022,123
3,023,055
3,053,587
3,063,762
74: 3,062,596
77: 3,020,102
3,035,875
3,066,989
78: 3,056,634
3,070,408
79: 3,033,617
83: 3,039,832
87: 3,033,618
3,062,597
88: 3,020,103
3,035,876
3,036,870
3,037,823
3,048,455
3,055,715
91: 3,035,877
121: 3,043,636
3,053,588
3,058,787
122: 3,017,229
3,044,838
3,053,589
3,070,409
132: 3,030,157
134.1: 3,070,410
135: 3,015,526
143: 3,035,878
159: 3,020,104
3,026,155
3,036,871
3,037,824
3,047,346
3,050,350
3,052,504
160: 3,018,144
3,033,619
3,044,839
3,048,456
3,052,505
3,056,635
3,061,384
3,062,598
3,070,411
162: 3,033,620
3,043,637
163: 3,020,105
3,027,205
3,031,237
3,038,765
168: 3,066,990

174: 3,018,145
3,020,106
3,050,351
3,070,412
180: 3,038,766
3,061,385
183: 3,025,114
184: 3,050,352
3,053,590
3,061,386
187: 3,015,527
3,017,230
3,019,065
3,021,182
3,037,825
3,042,462
3,051,533
3,058,788
3,061,387
187.1: 3,019,066
3,025,115
3,028,203
3,037,826
3,042,463
3,046,063
3,068,051
3,070,413
187.2: 3,055,716
189: 3,019,067
193: 3,020,124
3,034,839
196: 3,056,636
199: 3,016,274
3,037,827
3,058,789
201: 3,020,206
203: 3,020,107
3,020,108
3,061,388
204: 3,023,056
207: 3,020,109
3,023,057
3,026,156
3,033,621
3,053,591
212: 3,038,120
3,046,064
213: 3,022,125
215: 3,031,238
217: 3,028,204
3,030,577
3,042,464
3,046,065
3,046,066
3,050,353
3,051,534
3,057,667
221: 3,061,389
227: 3,025,116
3,058,790
3,061,052
230: 3,030,158
231: 3,015,528
3,023,058
233: 3,046,067
235: 3,034,299
236: 3,033,622
3,036,872
3,066,000
237: 3,019,068
3,022,785
3,026,157
3,055,717
238: 3,018,146
3,022,127
3,022,128
3,023,059
3,033,623
3,033,624
3,037,828
3,053,592
3,053,593
3,056,637
3,058,791
3,068,053
239: 3,062,599
240: 3,046,068
3,049,384
3,051,535
241: 3,063,763
243: 3,019,069
3,025,117
3,033,625
3,037,829
3,042,465
3,042,466
3,055,718

Class 309

1: 3,039,833
3,046,069
2: 3,030,159
3,043,638
3,043,639

Class 309—Con.

2: 3,054,649
3: 3,069,209
4: 3,015,529
3,025,118
3,033,626
3,037,830
3,041,115
3,046,070
3,053,594
3,055,719
3,059,980
3,066,001
5: 3,035,879
6: 3,021,183
3,023,060
3,056,638
3,062,600
7: 3,031,240
3,058,792
9: 3,066,002
10: 3,070,414
14: 3,023,061
3,029,112
3,039,834
3,041,116
3,051,536
3,066,003
17: 3,036,873
3,057,668
19: 3,027,207
3,034,840
3,053,595
3,069,210
20.4: 3,068,054
51: 3,055,720
3,062,601
52: 3,023,062
3,031,241
3,036,874
3,053,596
54: 3,063,764

Class 310

2: 3,065,365
3: 3,019,358
3,069,571
4: 3,041,481
3,054,914
5: 3,018,394
3,022,430
3,048,720
6: 3,039,011
3,056,052
3,061,745
7: 3,047,748
8: 3,021,441
8.1: 3,029,356
8.2: 3,069,572
8.4: 3,045,131
3,060,333
8.6: 3,067,345
8.7: 3,030,527
3,031,591
3,034,001
3,043,976
3,058,044
3,058,015
3,066,232
3,068,370
8.9: 3,020,423
3,056,894
9.1: 3,025,419
3,046,423
3,054,915
3,069,573
9.4: 3,017,525
3,022,431
3,047,749
3,054,004
9.5: 3,020,424
9.6: 3,059,130
9.7: 3,036,251
3,069,574
11: 3,034,002
3,041,482
13: 3,023,328
3,070,715
15: 3,024,374
3,041,483
3,065,366
19: 3,026,428
20: 3,020,425
22: 3,070,716
23: 3,058,016
24: 3,024,375
25: 3,026,429
26: Re.25,119
3,020,426
3,036,252
3,066,233
29: 3,026,430
29: 3,039,012
3,048,721
34: 3,069,575
36: 3,038,511
3,052,803
3,064,146
37: 3,022,432
38: 3,042,817
3,047,750
3,060,334
40: 3,018,395
3,064,147
41: 3,027,469
3,056,053
42: 3,030,528
43: 3,045,132
3,045,133
3,054,005
49: 3,042,818
3,042,819
50: 3,035,191
3,062,975
53: 3,030,529
54: 3,032,665
3,043,968
3,049,633
3,060,335
3,069,576
55: 3,030,530
56: 3,041,117
57: 3,044,148
59: 3,020,427
3,027,470
3,051,856
3,056,054
60: 3,017,526
3,021,442
3,062,976
61: 3,034,003
3,046,424
3,056,055
64: 3,043,969
3,049,634
67: 3,032,666
68: 3,030,531
3,041,484
3,058,017
3,060,336
71: 3,024,376
72: 3,030,532
3,047,751
3,048,722
74: 3,022,433
3,027,471
3,051,857
77: 3,028,512
3,032,667
3,037,133
3,048,723
81: 3,047,752
83: 3,028,513
84: 3,049,635
87: 3,034,004
3,050,645
3,052,804
3,068,371
89: 3,035,192
90: 3,048,724
3,051,746
91: 3,023,329
3,043,970
3,047,753
92: 3,054,006
93: 3,026,431
3,031,592
3,042,820
3,062,977
3,064,149
3,068,372
94: 3,017,527
3,035,193
95: 3,032,668
3,058,018
3,061,747
96: 3,056,895
97: 3,030,646
98: 3,061,748
103: 3,025,420
104: 3,027,472
3,027,473
3,050,646
3,051,858
3,052,805
105: 3,047,754
3,050,647
3,051,859
3,054,007
106: 3,045,134
112: 3,041,485
153: 3,034,005
3,037,134
154: 3,032,669
3,054,916
3,064,150
156: 3,019,359
3,050,648
159: 3,040,199
162: 3,023,330
3,035,194
3,038,092
3,047,755
3,068,373
3,068,374
164: 3,032,670
3,058,019
3,059,131
3,068,375
166: 3,042,821
3,062,978
3,069,577
168: 3,030,533
3,041,486
3,062,979
172: 3,020,428
3,024,377
3,041,487
3,056,056
177: 3,028,514
179: 3,038,093
184: 3,054,008
185: 3,030,534
190: 3,021,443
191: 3,017,528
198: 3,052,806
202: Re.25,244
211: 3,024,378
3,027,474
212: 3,045,135
214: 3,031,593
3,032,671
3,035,195
3,054,009
216: 3,043,971
228: 3,042,822
3,046,425
232: 3,023,331
234: 3,015,744
3,020,429
3,061,749
238: 3,041,488
3,045,136
239: 3,026,432
3,026,433
3,032,672
244: 3,041,118
245: 3,025,421
246: 3,020,430
3,022,434
3,025,422
3,049,637
247: 3,028,515
3,034,006
3,050,649
248: 3,017,529
249: 3,020,434
3,050,057
3,064,151
254: 3,023,332
3,054,010
3,064,152
258: 3,045,137
3,056,896
259: 3,021,444
260: 3,027,475
3,027,476
261: 3,030,535
267: 3,046,426
268: Re.25,305
3,018,396
3,023,333
3,023,334
3,023,335
3,046,427
3,050,650
3,054,011
3,056,058
3,060,337
3,061,750
269: 3,061,751
270: 3,070,717
271: 3,047,756
3,048,725
3,065,367

Class 311

3: 3,020,111
3,057,669
3,058,793
4: 3,053,598
7: 3,027,208
3,041,119
3,041,120
3,041,121
3,041,122
3,046,071
10: 3,041,123
3,046,072
12: 3,034,841
12: 3,069,211
17: 3,030,160
3,033,628
3,042,467
3,061,390
19: 3,026,158
3,057,670
20: 3,043,640
21: 3,015,530
3,033,063
3,026,159
3,031,242
3,048,457
3,066,991
22: 3,048,458
3,050,355
3,052,506
26: 3,062,602
29: 3,033,627
32: 3,035,721
35: 3,029,113
3,032,380
39: 3,025,119
3,043,641
3,058,794
3,069,212
41: 3,018,147
47: 3,033,629
3,059,981
63: 3,021,184
3,029,114
71: 3,042,468
83: 3,031,243
3,062,603
84: 3,026,160
3,049,386
85: 3,028,205
89: 3,029,115
3,049,387
92: 3,025,120
3,038,842
95: 3,027,209
98: 3,046,073
99: 3,026,161
3,033,630
238: 3,037,831
3,061,391
100: 3,031,244
106: 3,049,388
3,062,604
108: 3,041,840
3,048,459
3,055,722
110: 3,017,231
3,061,392
3,066,992
114: 3,063,765

Class 312

6: 3,027,210
10: 3,069,213
12: 3,052,507
13: 3,042,469
20: 3,051,537
3,066,993
26: 3,062,605
27: 3,029,116
29: 3,021,185
30: 3,048,460
3,051,538
31: 3,033,064
3,063,767
31.01: 3,030,161
31.03: 3,063,766
35: 3,018,148
3,026,266
39: 3,047,347
3,059,982
3,069,214
41: 3,062,606
43: 3,053,599
45: 3,018,149
50: 3,068,055
71: 3,053,600
97.1: 3,061,393
100: 3,027,211
3,039,835
108: 3,056,639
3,059,983
111: 3,023,065
3,028,207
3,030,162
3,030,163
3,032,381
3,043,642
3,063,768
117: 3,062,607
3,069,215
123: 3,033,631
128: 3,057,671
138: 3,044,841
140.1: 3,027,212
3,046,074
140.2: 3,033,632
140.3: 3,021,186
3,027,213
3,039,836
3,053,601
140.4: 3,026,162
3,027,214
3,031,245
194: 3,043,643
3,038,795
195: 3,030,164
3,069,216
196: 3,048,461
197: 3,018,150
3,031,246
198: 3,042,470
200: 3,029,117
3,055,723
201: 3,050,356
3,053,602
202: 3,047,348
205: 3,062,608
209: 3,016,275
3,054,650
3,069,217
213: 3,024,074
214: 3,024,075
3,033,633
3,038,769
3,048,462
3,052,508
3,056,640
219: 3,023,066
3,033,634
221: 3,029,118
3,038,770
223: 3,017,232
3,019,070
3,028,208
3,028,209
3,028,210
3,038,771
3,042,471
3,059,984
3,063,769
3,065,037
228: 3,025,121
229: 3,038,772
3,070,415
231: 3,031,247
3,049,390
3,051,539
235: 3,030,166
3,051,540
236: 3,024,076
3,034,843
237: 3,048,463
239: 3,054,651
241: 3,070,416
242: 3,023,067
245: 3,025,122
3,027,215
246: 3,063,770
252: 3,038,773
253: 3,032,382
255: 3,066,994
256: 3,033,635
3,061,394
257: 3,021,187
3,028,211
3,034,844
3,042,473
3,061,395
258: 3,061,396
263: 3,023,068
3,029,357
3,065,038
264: 3,029,119
3,063,771
268: 3,034,845
3,042,472
270: 3,041,124
271: 3,027,216
272: 3,049,391
274: 3,016,276
3,058,796
275: 3,028,212
276: 3,027,217
279: 3,059,985
280: 3,020,112
284: 3,020,113
287: 3,016,277
3,027,349
293: 3,053,603
294: 3,066,004
296: 3,041,125
297: 3,066,995
298: 3,033,636
300: 3,047,350
303: 3,033,637
305: 3,037,832
308: 3,019,071
3,063,772
311: 3,030,165
313: 3,063,773
316: 3,015,531
319: 3,052,509
3,055,724
320: 3,031,248
3,039,837
322: 3,017,233
3,063,774
324: 3,049,389
329: 3,063,775
330: 3,057,672
332: 3,030,165
3,050,357
333: Re.25,243
3,050,358
335: 3,039,838
336: 3,063,776
338: 3,033,638
3,059,986
339: 3,031,249
340: 3,056,641
341: 3,070,417
343: 3,015,532
3,022,129
348: 3,033,639
3,044,842
350: 3,038,774
352: 3,018,151
3,043,644

Class 313

1: 3,070,718
3: 3,048,726
6: 3,042,823
7: 3,019,360
3,042,824
3,067,346
3,070,719
11.5: 3,017,530
12: 3,046,428
3,046,429
15: 3,050,651
21: 3,045,138
22: 3,018,397
3,026,435
3,064,153
32: 3,043,972
38: 3,034,007
39: 3,048,727
40: 3,043,973
46: 3,054,012
3,058,020
51: 3,026,516
54: 3,026,436
57: 3,046,430
59: 3,018,398
3,022,436
61: 3,028,517
3,034,008
62: 3,024,379
63: 3,015,745
3,018,399
3,020,431
3,050,652
3,067,347
65: 3,015,746
3,020,432
3,026,437
3,027,477
3,035,196
3,035,197
3,040,200
3,043,974
3,046,431
3,047,757
3,048,728
3,051,860
3,054,650
3,057,673
3,058,021
3,061,752
3,070,720
67: 3,027,478
3,038,094
3,067,348
68: 3,020,433
3,041,489
3,050,653
3,066,234
3,068,376
3,069,578
70: 3,024,380
3,037,135
71: 3,032,673
3,038,095
3,065,368
76: 3,019,361
3,020,434
3,035,198
3,045,139
3,047,758
78: 3,023,336
3,035,199
3,066,235
79: 3,064,154
80: 3,030,536
82: 3,016,471
3,017,531
3,018,400
3,026,438
3,027,479
3,032,674
3,047,759
3,052,807
83: 3,036,233
84: 3,021,445
3,052,808
3,052,809
3,061,753
3,061,754
85: 3,021,401
3,034,009
3,038,096
3,045,140
87: 3,045,141
89: 3,042,825
92: 3,057,136
3,043,975
3,048,729
3,067,349
93: 3,019,362
3,019,363
3,029,358
3,030,537
3,030,538
3,030,539
3,047,760
3,047,761
3,048,730
3,054,918
3,056,059
3,067,350
3,043,976
94: 3,058,022
100: 3,026,439
101: 3,034,010
3,060,338
102: 3,021,364
3,043,977
103: 3,049,638
105: 3,036,234
107: 3,027,480
3,070,721
108: 3,015,747
3,018,402
3,023,337
3,023,338
3,025,422
3,026,440
3,030,540
3,030,541
3,030,542
3,034,011
3,036,200
3,037,137
3,037,138
3,038,097
3,039,013
3,040,201
3,040,202
3,041,490
3,041,491
3,043,978
3,043,979
3,046,432
3,046,433
3,047,762
3,048,731
3,048,732
3,048,733
3,050,654
3,050,655
3,052,810
3,052,811
3,052,812
3,054,013
3,054,919
3,056,897
3,056,898
3,059,132
3,061,755
3,064,155
3,065,369
3,068,376
3,069,579
3,070,722
109: 3,023,339
3,023,340
3,047,763
3,052,813
3,059,133
3,059,134
3,069,580
109.5: 3,042,826
3,054,920
110: 3,027,481
3,059,134
112: 3,024,381
3,042,827
3,054,921

113: 3,037,139
3,059,135
3,070,723
114: 3,018,403
115: 3,025,424
116: 3,048,734
3,067,352
117: 3,020,435
124: 3,043,980
131: 3,037,140
3,046,434
3,052,814
141: 3,017,532
3,042,474
143: 3,025,425
3,046,435
3,048,735
3,056,899
145: 3,061,756
146: 3,034,012
3,046,436
3,051,862
149: 3,036,235
151: 3,038,098
153: Re.25,201
3,060,339
157: 3,031,594
3,031,595
158: 3,032,675
161: 3,015,748
3,030,543
3,038,099
3,039,014
3,048,736
165: 3,039,136
166: 3,049,639
169: 3,043,981
170: 3,024,382
174: 3,048,737
3,062,980
184: 3,025,426
3,054,922
185: 3,029,359
3,041,492
3,065,370
3,069,581
188: 3,025,427
189: 3,017,533
3,051,863
193: 3,037,141
197: 3,035,201
3,065,371
3,065,372
198: 3,060,340
3,067,353
202: 3,048,738
204: 3,021,446
3,024,383
3,059,137
210: 3,067,354
3,067,355
213: 3,019,365
3,020,436
214: 3,042,828
218: 3,022,436
3,022,437
220: 3,043,982
3,047,764
3,048,739
221: 3,042,829
3,043,983
3,067,356
222: 3,022,438
3,022,439
223: 3,067,357
231: 3,040,203
3,042,830
3,058,023
3,064,156
3,067,358
244: 3,025,428
246: 3,041,493
250: 3,022,440
3,023,341
3,066,236
251: 3,045,142
261: 3,026,441
3,054,923
270: 3,050,060
271: 3,069,582
278: 3,026,442
279: 3,039,015
285: 3,041,494
289: 3,062,981
292: 3,062,982
293: 3,070,724
313: 3,027,482
315: 3,040,204
317: 3,069,583
318: 3,020,437
3,026,443
3,036,236
3,047,765
3,051,864

318: 3,064,157
325: 3,045,143
330: 3,037,142
340: 3,020,360
341: 3,069,584
346: 3,016,472
3,018,404
3,056,061
3,056,900
348: 3,039,016
3,069,585
3,069,586
350: 3,028,518
3,041,495
352: 3,054,014
355: 3,030,544

Class 314

31: 3,045,144
51: 3,946,437
69: 3,022,441
3,046,438
71: 3,054,924
78: 3,058,024
80: 3,030,545
101: 3,026,444

Class 315

1: 3,020,438
3: 3,015,749
3,051,865
3,059,138
3.5: Re.25,189
3,015,750
3,020,439
3,020,440
3,026,445
3,027,483
3,027,484
3,031,596
3,032,676
3,032,677
3,042,831
3,043,984
3,045,145
3,050,656
3,054,015
3,054,016
3,066,237
3,066,238
3,069,587
3,070,725
3.6: 3,019,366
3,024,384
3,038,100
3,050,657
3,054,017
3,054,018
3,058,025
3,060,341
3,062,983
3,065,373
3,068,377
3,069,588
5.19: 3,021,447
3,036,237
3,046,439
5.21: 3,043,985
3,045,146
5.22: 3,059,139
3,060,342
5.34: 3,065,374
5.35: 3,021,448
5.42: 3,067,359
3,070,726
5.43: 3,026,519
5.46: 3,043,986
5.48: 3,054,925
3,058,026
3,069,590
5.54: 3,051,866
8: 3,032,678
8.5: 3,016,473
3,020,441
3,022,442
3,028,520
3,035,202
3,046,440
3,051,867
3,054,926
3,062,984
9: 3,030,546
10: 3,020,442
3,040,205
3,046,441
3,067,360
11: 3,039,017
3,054,019
3,056,062
3,069,591
12: 3,018,405
3,023,342
3,024,385

12: 3,031,597
3,054,927
3,060,343
13: 3,015,751
3,018,474
3,028,521
3,059,140
15: Re.25,222
3,035,203
16: Re.25,127
3,015,752
3,036,238
17: 3,069,592
18: 3,023,343
3,043,832
3,058,027
21: 3,047,766
22: 3,038,101
3,040,206
3,048,740
3,056,063
3,066,238
3,069,593
24: Re.25,221
3,027,485
3,047,767
26: 3,015,753
3,020,443
3,032,679
3,043,987
27: 3,034,013
3,037,143
3,041,496
3,049,640
3,054,020
3,056,064
3,059,141
3,061,757
3,070,727
30: 3,049,641
3,065,375
3,065,376
31: 3,046,442
3,047,768
3,066,239
36: 3,018,406
3,018,407
3,019,367
3,027,486
3,035,204
3,036,239
3,039,018
3,047,769
3,069,589
39: 3,017,534
3,017,535
3,029,361
3,058,028
3,059,142
3,065,377
39.3: 3,020,444
3,022,443
3,027,487
3,046,443
3,069,594
39.51: 3,046,444
3,046,445
39.53: 3,039,019
39.55: 3,064,158
39.61: 3,027,488
3,032,680
3,032,681
3,046,446
3,047,770
39.63: 3,020,445
3,028,522
39.69: 3,045,147
3,058,029
3,069,595
39.71: 3,020,446
39.73: 3,064,159
39.77: 3,034,014
3,041,497
3,048,741
3,052,815
54: 3,041,498
55: 3,065,378
58: 3,060,344
61: 3,022,444
71: 3,028,523
77: 3,040,207
3,068,378
79: 3,021,449
80: 3,039,020
82: 3,037,144
3,058,030
83: 3,017,536
3,023,344
3,026,446
3,047,771
3,065,379
84: 3,961,758
84.5: 3,021,450
3,054,021

84.6: 3,016,475
3,056,901
3,064,160
3,066,240
85: 3,020,447
3,050,658
86: 3,027,489
3,029,362
95: 3,018,408
96: 3,019,368
97: 3,034,015
3,040,208
99: 3,047,772
3,066,241
108: 3,051,868
111: 3,018,409
3,025,429
3,026,447
3,035,205
3,040,209
3,042,833
135: 3,016,476
3,026,448
3,041,499
138: 3,018,410
3,020,448
3,059,143
139: 3,058,031
144: 3,027,490
3,032,682
151: 3,059,144
156: 3,051,869
157: 3,054,928
159: 3,027,491
3,052,816
163: 3,018,411
3,062,985
166: 3,018,412
3,026,449
3,037,145
168: 3,027,492
3,030,547
3,041,500
169: 3,042,834
3,043,988
3,054,929
3,056,902
3,059,145
3,060,345
3,066,242
3,069,596
171: 3,026,450
3,042,835
3,052,817
3,059,146
3,060,346
172: 3,026,451
175: 3,059,147
176: 3,034,016
3,038,102
3,066,243
177: 3,030,548
3,051,870
180: 3,032,683
183: 3,024,386
3,032,684
3,032,685
3,045,148
188: 3,030,549
3,054,930
189: 3,032,686
200: 3,037,146
3,062,986
201: 3,031,598
3,031,599
203: 3,030,550
3,056,903
205: 3,019,369
3,034,017
3,034,018
3,037,147
3,041,501
3,047,773
3,048,742
3,054,931
206: 3,016,477
3,016,478
3,018,413
3,019,370
3,032,687
3,037,148
3,039,021
3,046,447
3,049,642
3,059,148
207: 3,047,774
3,056,065
208: 3,051,871
209: 3,052,818
214: 3,028,524
3,034,019

217: 3,041,502
219: 3,021,451
3,046,448
3,049,643
3,049,644
223: 3,056,066
227: 3,025,430
230: 3,017,537
232: 3,019,371
3,029,363
241: 3,017,538
3,025,431
3,038,103
3,056,904
242: 3,052,819
244: 3,035,206
254: 3,069,597
257: 3,050,659
3,061,759
267: 3,035,207
3,059,149
272: 3,028,525
3,032,688
3,058,032
278: 3,039,022
289: 3,058,033
316: 3,049,645
3,060,347
336: 3,029,364
357: 3,059,150
360: 3,062,987

Class 316

2: 3,063,777
8: 3,030,167
9: 3,027,218
3,041,126
18: 3,037,833
19: 3,037,834
3,041,127
21: 3,026,163
23: 3,034,846
3,047,351
25: 3,063,778
26: 3,023,069
30: 3,041,128
31: 3,055,725

Class 317

2: 4,015,754
3,034,020
3,035,208
3,037,149
3,037,150
3,040,210
3,040,211
3,065,380
5: 3,038,526
3,039,241
3,042,836
3,046,449
3,046,450
3,062,988
6: 3,026,452
3,038,104
3,048,743
9: 3,021,452
3,058,034
11: 3,018,414
3,046,451
12: 3,062,989
13: 3,019,372
3,019,373
3,036,242
3,064,161
3,064,162
3,065,381
14: 3,030,551
3,031,600
15: 3,032,689
3,035,209
3,040,212
3,059,151
18: 3,024,387
3,047,775
22: 3,043,989
3,058,035
23: 3,018,415
3,062,990
25: 3,054,932
26: 3,070,728
27: 3,021,453
3,037,151
3,048,744
3,048,745
31: 3,024,388
3,047,776
3,058,036
32: 3,048,746
33: 3,060,348
36: 3,018,416
3,024,389

36: 3,036,243
40: 3,022,445
3,056,905
41: 3,032,690
3,042,837
43: 3,067,361
46: 3,031,601
3,056,067
48: 3,039,023
52: 3,018,417
3,023,345
3,042,838
54: 3,028,527
58: 3,068,379
59: 3,037,152
60: 3,064,163
61: 3,030,552
3,056,068
66: 3,017,539
3,064,164
79: 3,020,449
80: 3,022,446
3,028,528
83: 3,027,493
3,065,382
96: 3,041,503
98: 3,017,540
3,017,541
99: 3,020,450
3,022,447
3,025,432
100: 3,030,553
3,061,760
3,070,729
101: 3,015,755
3,020,451
3,022,448
3,026,453
3,027,494
3,029,365
3,029,366
3,029,367
3,029,368
3,035,210
3,035,211
3,038,105
3,040,213
3,040,214
3,041,504
3,046,452
3,048,747
3,049,647
3,052,821
3,052,822
3,052,823
3,052,824
3,054,024
3,058,037
3,059,152
3,059,153
3,061,761
3,061,762
3,062,991
3,065,383
3,065,384
3,065,385
3,069,598
3,069,599
103: 3,015,756
104: 3,036,244
3,067,362
111: 3,061,763
119: 3,037,153
3,041,505
3,046,453
3,054,025
3,054,934
3,065,386
120: 3,037,154
3,041,506
3,066,244
123: 3,018,418
3,022,449
3,022,450
3,026,454
3,034,021
3,036,245
3,043,990
3,047,777
3,049,648
3,051,872
3,054,026
3,056,906
3,061,764
124: 3,027,495
3,032,691

130: 3,040,215
3,043,991
133.5: 3,027,496
134: 3,046,454
136: 3,066,245
138: 3,047,778
139: 3,059,154
140: 3,017,542
3,025,433
3,067,363
141: 3,049,649
142: 3,065,387
145: 3,043,992
146: 3,022,451
3,023,344
3,034,022
3,034,023
3,042,839
3,043,993
3,052,825
147: 3,027,497
3,035,212
3,045,149
3,050,661
148.5: 3,017,543
3,018,419
3,018,420
3,019,374
3,021,454
3,024,390
3,032,692
3,034,024
3,038,106
3,045,150
3,049,650
3,049,662
3,051,873
3,060,350
3,064,165
3,065,388
3,067,364
3,069,600
149: 3,024,391
3,026,455
3,030,554
3,039,024
3,041,507
3,046,455
3,052,826
3,056,907
3,060,351
3,068,380
3,069,601
150: 3,029,369
3,052,827
152: 3,042,840
154: 3,018,421
3,060,352
156: 3,040,216
3,047,779
157: 3,039,025
3,048,748
3,066,246
157.5: 3,045,151
3,051,874
158: 3,017,544
3,019,375
3,030,555
3,030,556
3,032,693
3,036,246
3,042,841
3,043,994
3,054,027
3,056,069
3,056,070
3,056,071
3,060,353
3,068,381
159: 3,017,545
3,034,025
3,039,026
3,051,875
162: 3,059,155
163: 3,064,166
165: 3,020,452
3,027,498
3,036,247
3,046,749
3,062,992
3,069,602
166: 3,015,757
3,036,248
3,045,152
171: 3,016,479
172: 3,027,499
3,031,602
3,040,217
3,043,995
175: 3,034,026
177: 3,058,038
185: 3,042,842
186: 3,032,694
3,050,663

Class 317—Con.

187: 3,026,456
3,060,354
188: 3,042,843
189: 3,039,027
190: 3,017,546
3,070,730
191: 3,017,547
3,021,455
3,021,456
3,021,457
3,054,935
195: 3,046,456
3,060,355
198: 3,054,028
3,058,039
3,061,765
199: 3,052,828
200: 3,021,458
3,027,500
3,050,664
3,067,365
201: 3,018,422
3,024,392
3,059,156
3,067,366
203: 3,070,731
230: 3,015,758
3,015,759
3,016,480
3,020,453
3,029,370
3,036,249
3,046,457
3,052,829
3,054,029
3,054,030
3,056,072
3,056,508
3,058,040
3,065,389
3,066,247
3,067,367
231: 3,017,548
3,050,665
3,051,876
3,052,830
3,054,031
234: Re.25,161
Re.25,184
3,015,760
3,015,761
3,015,762
3,017,549
3,017,550
3,018,423
3,018,424
3,018,425
3,020,454
3,021,459
3,021,460
3,023,346
3,023,347
3,025,435
3,025,436
3,027,501
3,028,529
3,050,557
3,030,558
3,030,559
3,032,695
3,035,213
3,036,250
3,036,251
3,037,155
3,039,028
3,040,218
3,041,508
3,042,844
3,046,458
3,047,780
3,047,781
3,050,666
3,054,032
3,054,033
3,056,073
3,056,074
3,059,157
3,059,158
3,061,766
3,064,167
3,065,390
3,065,391
3,066,248
3,067,368
3,068,382
3,068,383
3,069,603
3,069,604
235: 3,015,763
3,021,461
3,025,437
3,025,438
235: 3,027,502
3,027,503
3,030,560
3,030,561
3,030,562
3,040,219
3,041,509
3,041,510
3,046,459
3,051,877
3,054,034
3,054,936
3,058,041
3,065,392
3,066,249
236: 3,022,452
237: 3,018,426
240: 3,021,462
3,025,439
3,050,667
3,051,878
242: 3,018,427
3,019,376
3,024,393
3,041,511
3,042,845
3,060,356
245: 3,040,220
247: 3,061,767
248: 3,067,369
249: 3,027,504
3,034,027
3,051,879
3,056,075
3,058,042
3,068,384
250: 3,015,764
3,020,455
253: 3,015,765
3,015,766
256: 3,042,846
258: 3,016,481
3,020,456
3,025,440
3,025,441
3,038,107
3,047,782
3,048,750
3,049,651
3,054,035
3,065,393
260: 3,026,457
261: 3,024,394

Class 318

6: 3,060,357
3,060,358
11: 3,032,696
3,045,153
3,048,751
16: 3,020,457
3,029,371
3,031,603
3,047,783
17: 3,039,029
3,043,996
19: 3,048,752
3,060,359
22: 3,037,156
3,041,512
23: 3,045,154
24: 3,019,377
3,025,442
3,062,993
3,068,385
27: 3,039,530
28: 3,015,767
3,015,768
3,020,458
3,020,459
3,020,460
3,020,461
3,030,563
3,034,028
3,035,214
3,035,215
3,036,252
3,039,030
3,043,997
3,045,155
3,045,156
3,045,157
3,047,784
3,048,753
3,051,880
3,064,168
3,064,169
3,065,394
3,068,386
3,068,387
3,069,605
29: 3,017,551
3,028,531
29: 3,036,253
3,039,031
3,043,998
3,051,881
3,056,076
3,068,388
30: 3,039,032
3,040,221
3,050,668
3,051,882
3,056,909
31: 3,039,033
3,050,669
3,062,994
32: 3,040,222
3,058,043
3,060,360
39: 3,017,552
42: 3,048,754
45: 3,030,564
46: 3,059,159
3,066,250
48: 3,039,034
52: 3,069,606
55: 3,070,732
57: 3,059,160
61: 3,069,607
65: 3,019,378
71: 3,024,395
72: 3,060,670
75: 3,045,158
102: 3,064,170
103: 3,034,029
3,045,159
124: 3,040,223
128: 3,015,769
3,045,160
3,056,910
129: 3,038,108
132: 3,026,458
3,028,532
3,040,224
3,040,225
3,046,460
135: 3,070,733
137: 3,067,370
138: 3,023,348
3,025,443
3,041,513
139: 3,047,785
141: 3,059,161
143: 3,030,565
3,036,254
3,045,161
144: 3,054,937
152: 3,031,604
3,049,652
153: 3,047,786
154: 3,022,453
3,041,514
158: 3,019,379
162: 3,021,463
3,021,464
3,024,396
3,025,444
3,035,216
3,039,035
3,054,036
3,062,995
3,062,996
3,069,608
165: 3,043,999
3,065,395
170: 3,020,462
3,023,349
3,048,755
3,069,609
171: 3,050,671
172: 3,026,459
3,034,030
173: 3,049,653
175: 3,020,463
176: 3,018,428
197: 3,059,162
199: 3,017,553
202: 3,045,162
203: 3,044,000
204: 3,029,372
3,039,036
205: 3,040,226
207: 3,048,756
3,064,171
208: 3,046,461
209: 3,038,109
211: 3,031,605
220: 3,068,389
221: 3,020,464
3,023,350
3,024,397
3,031,606
3,036,255
3,041,515
3,044,001
3,049,654
224: 3,016,482
3,070,734
226: 3,026,460
227: 3,024,398
3,045,163
229: 3,026,461
3,059,163
3,065,396
231: 3,065,397
239: 3,017,554
246: Re.25,203
3,035,217
3,058,044
247: 3,021,465
251: 3,042,847
257: 3,022,454
3,050,672
3,069,610
259: 3,046,462
265: 3,047,787
266: 3,045,164
3,060,361
270: 3,068,390
272: 3,056,911
274: 3,034,031
283: 3,024,399
285: 3,048,757
3,048,758
286: 3,045,165
293: 3,062,697
3,064,172
302: 3,026,462
3,046,463
305: 3,049,655
307: 3,046,464
308: 3,024,400
3,037,157
312: 3,018,429
3,064,103
317: 3,029,373
325: 3,021,465
3,058,045
327: 3,021,466
3,024,401
3,026,463
3,026,464
330: 3,067,371
331: 3,027,505
3,064,174
338: 3,023,351
341: 3,064,175
346: 3,064,176
367: 3,045,166
3,049,656
3,054,037
380: 3,017,555
393: 3,067,372
396: 3,049,657
403: 3,016,483
434: 3,034,032
436: 3,070,735
443: 3,040,227
3,040,228
3,041,516
444: 3,025,445
3,041,517
446: 3,028,533
3,044,002
448: 3,017,556
3,028,534
3,041,518
3,048,759
3,051,883
457: 3,051,884
461: 3,047,788
467: 3,017,557
3,024,402
3,025,446
3,034,033
3,035,218
3,039,037
3,041,519
3,048,760
3,051,885
3,051,886
3,054,038
3,062,997
3,065,398
3,069,611
3,070,736
475: 3,024,403
3,029,374
478: 3,039,038
480: 3,025,447
3,036,256
3,048,761
481: 3,052,831
484: 3,024,404
486: 3,019,380
3,027,506
489: 3,046,465
3,048,762
3,052,832
3,054,039
489: 3,060,362
490: 3,038,110
3,041,520
492: 3,039,039
513: 3,023,352
3,024,405

Class 320

1: Re.25,271
3,021,467
3,024,406
3,035,219
3,050,673
2: 3,021,468
3,027,507
3,028,535
3,028,536
3,067,373
15: 3,021,469
25: 3,051,887
28: 3,026,465
3,041,521
32: 3,040,229
33: 3,041,522
3,058,046
3,062,998
35: 3,062,999
39: 3,048,763

Class 321

2: 3,035,220
3,036,257
3,048,764
3,051,888
3,064,177
3,069,612
3,070,737
3: 3,044,003
4: 3,044,004
5: 3,026,466
3,026,467
3,036,258
3,050,674
3,052,833
3,060,363
7: 3,040,230
3,040,231
3,048,765
8: 3,015,770
3,059,164
3,059,165
3,064,178
3,064,179
3,067,374
3,068,391
11: 3,026,468
3,029,375
3,040,232
3,069,613
12: 3,023,353
3,044,005
14: 3,017,558
3,037,158
3,045,167
3,045,168
3,059,166
3,067,375
3,069,614
15: 3,015,771
3,036,259
3,048,766
3,063,000
16: 3,021,470
3,036,260
3,041,523
3,046,466
3,054,939
3,061,768
3,061,769
3,063,001
3,067,376
18: 3,037,159
3,038,111
3,038,112
3,045,169
3,047,789
3,058,047
3,065,399
3,067,377
3,067,378
3,068,392
19: 3,021,471
3,027,508
3,040,233
3,040,234
3,040,235
3,042,848
3,045,170
3,046,469
3,054,040
3,054,041
21: 3,019,381
24: 3,016,484
25: 3,029,376
25: 3,048,767
27: 3,042,849
3,070,738
45: 3,017,559
3,017,560
3,017,561
3,047,790
3,050,675
3,056,077
47: 3,070,739
48: 3,058,048
3,069,615
50: 3,040,236
69: 3,025,448
3,030,566
3,041,524
3,054,042
3,054,940
3,058,049
3,060,364
3,060,365
3,067,379

Class 322

2: 3,018,430
3,021,472
3,024,407
3,035,221
3,046,467
3,056,912
19: 3,032,698
3,032,699
20: 3,058,050
23: 3,034,034
25: 3,022,455
3,023,354
3,025,449
3,027,509
3,028,537
3,030,567
3,030,568
3,031,607
3,032,700
3,032,701
3,045,171
3,059,167
3,065,400
3,065,401
3,067,380
3,069,616
27: 3,042,850
28: 3,020,466
3,022,456
3,025,450
3,034,035
3,041,525
3,044,006
3,046,468
3,048,768
3,056,913
3,068,393
32: 3,060,366
3,070,740
34: 3,047,791
39: 3,060,367
40: 3,056,914
46: 3,017,562
47: 3,054,941
59: 3,059,168
61: 3,070,741
80: 3,029,377
85: 3,041,526
90: 3,017,563
3,029,378
3,063,002
3,067,381
93: 3,035,222
94: 3,039,040
95: 3,059,169

Class 323

7: 3,051,889
9: 3,017,564
3,023,355
3,025,451
15: 3,054,942
18: 3,047,792
22: Re.25,226
3,022,457
3,026,469
3,028,538
3,031,608
3,036,261
3,040,237
3,040,238
3,044,007
3,046,469
3,046,470
3,049,658
3,049,659
3,054,043
3,056,914
22: 3,060,368
3,068,394
3,069,617
3,069,618
24: 3,040,239
37: 3,045,172
43.5: 3,026,470
3,039,041
3,044,008
3,045,173
3,048,769
3,056,916
44: 3,039,042
45: 3,018,431
3,021,473
3,022,458
3,027,510
3,041,527
3,068,395
47: 3,025,452
48: 3,031,609
3,036,262
3,054,044
3,064,180
50: 3,040,240
51: 3,034,036
3,042,851
52: 3,046,471
53: 3,044,009
56: 3,015,772
3,037,160
3,059,170
3,064,181
60: 3,070,742
61: 3,025,453
3,025,454
3,028,539
3,032,702
3,038,113
3,059,171
3,059,172
64: 3,032,703
3,048,770
66: 3,018,432
3,023,357
3,024,408
3,028,540
3,031,610
3,031,611
3,032,704
3,034,037
3,039,043
3,040,241
3,050,676
3,051,890
3,054,943
3,056,078
3,068,396
3,068,397
3,070,743
68: 3,022,455
69: 3,023,356
3,065,402
3,070,744
74: 3,017,565
3,045,263
75: 3,015,773
3,024,409
3,030,569
3,035,223
3,048,771
3,064,182
76: 3,032,705
3,051,891
79: 3,018,433
3,066,251
81: 3,061,770
89: 3,016,485
3,016,486
3,019,382
3,020,467
3,020,468
3,021,474
3,026,471
3,030,570
3,034,038
3,036,264
3,038,114
3,040,242
3,041,528
3,041,529
3,041,530
3,045,174
3,046,472
3,054,944
3,054,945
3,056,079
3,058,051
3,059,173
3,059,174
3,060,369
90: 3,039,044
91: 3,054,045

94: 3,032,706
3,042,852
3,042,853
3,042,854
3,047,793
3,060,370
3,061,771
101: 3,058,052
106: 3,063,003
110: 3,059,175
111: 3,049,660
120: 3,018,434
122: 3,065,403

Class 324

.5: 3,019,383
3,020,469
3,021,475
3,023,358
3,024,410
3,025,456
3,025,457
3,028,541
3,030,571
3,030,572
3,034,039
3,034,040
3,038,115
3,039,045
3,039,046
3,039,047
3,039,048
3,039,049
3,042,855
3,042,856
3,044,010
3,045,175
3,046,473
3,048,772
3,048,773
3,049,661
3,049,662
3,052,834
3,056,080
3,058,053
3,060,371
3,066,252
3,068,398
3,068,399
3,070,745
1: 3,017,566
3,031,612
3,034,041
3,046,474
3,052,835
3,052,836
3,054,046
3,056,917
3,060,372
3,060,373
3,065,404
3,065,405
3,065,406
3,068,400
3,068,401
3,069,619
3: 3,020,470
3,052,837
4: 3,023,359
3,042,857
6: 3,017,567
3,020,471
3,034,042
3,036,265
3,051,892
3,065,407
3,065,408
3,067,382
3,067,383
10: 3,028,542
3,047,794
3,047,795
3,047,796
3,052,838
14: 3,058,054
15: 3,044,011
3,049,663
16: 3,028,543
3,032,707
3,035,224
3,036,918
3,061,772
18: 3,017,568
20: 3,028,544
3,032,708
3,040,243
22: 3,028,545
24: 3,040,244
26: 3,050,677
28: 3,021,476
3,038,116
3,038,117
3,058,055

28: 3,059,176
3,064,183
29: 3,017,569
3,019,384
3,049,664
3,058,056
29. 5: 3,017,570
3,060,374
3,060,375
3,063,004
30: 3,025,458
3,025,459
3,028,546
3,029,379
3,030,573
3,040,245
3,047,797
3,051,893
3,052,839
3,054,047
3,054,946
3,056,919
3,061,773
3,065,409
31: 3,065,410
3,067,384
32: 3,041,531
33: 3,018,435
3,018,436
3,038,118
3,044,012
3,058,057
3,065,411
3,068,402
34: 3,018,437
3,019,385
3,020,472
3,020,473
3,024,411
3,029,380
3,030,574
3,034,043
3,036,266
3,036,267
3,040,246
3,042,858
3,054,048
3,058,058
3,060,376
3,061,774
3,063,005
3,066,253
36: 3,026,472
3,049,665
37: 3,025,460
3,029,381
3,029,382
3,050,678
3,056,081
3,056,920
3,060,377
3,066,254
38: 3,016,487
40: 3,020,474
3,061,184
41: 3,020,475
3,032,709
3,058,059
3,061,775
3,065,412
43: 3,040,247
3,040,248
3,050,679
3,058,060
3,064,585
3,065,413
44: 3,046,475
46: 3,025,461
48: 3,024,412
3,066,255
51: 3,017,571
3,029,383
3,030,575
3,050,680
3,054,947
3,063,006
3,064,186
3,068,403
52: 3,031,613
3,037,161
3,052,840
53: 3,046,476
3,047,798
3,061,776
54: 3,015,774
3,037,162
3,037,163
3,037,164
3,040,249
3,040,250
3,045,176
3,045,177
3,047,799
3,047,800

54: 3,048,774
3,050,681
3,054,049
3,063,007
3,066,256
3,069,620
55: 3,017,572
57: 3,018,438
3,026,473
3,027,511
3,028,547
3,030,576
3,031,614
3,032,710
3,032,711
3,032,712
3,034,044
3,038,119
3,039,050
3,041,532
3,046,477
3,049,666
3,056,921
3,059,177
3,060,378
3,061,777
3,064,187
3,065,414
58: 3,019,386
3,025,462
3,031,615
3,032,713
3,034,045
3,035,225
3,046,478
3,054,948
3,061,778
58. 5: 3,025,463
3,030,577
3,034,046
60: 3,026,474
3,042,859
3,042,860
3,063,008
61: 3,020,476
3,021,477
3,025,464
3,025,465
3,028,548
3,028,549
3,030,578
3,031,616
3,031,617
3,037,165
3,039,051
3,039,052
3,046,479
3,047,801
3,048,775
3,051,894
3,065,415
3,067,385
3,069,621
62: 3,025,466
3,034,047
3,042,861
3,046,480
3,052,841
3,056,082
3,060,379
3,061,779
64: 3,042,862
3,048,776
65: 3,031,618
3,035,226
3,040,251
3,059,178
3,068,404
3,070,746
66: 3,052,842
3,054,949
68: 3,019,387
3,019,388
3,023,360
3,024,413
3,029,384
3,032,714
3,034,048
3,037,166
3,038,120
3,045,178
3,045,179
3,054,050
3,056,083
3,056,922
3,059,179
3,068,405
3,069,622
69: 3,046,481
70: 3,023,361
3,024,414
3,028,550
3,034,049
3,044,013

70: 3,054,051
3,054,950
3,056,084
3,059,180
3,064,188
3,065,416
3,069,623
71: 3,015,775
3,034,050
3,039,053
3,042,863
3,051,895
3,051,896
3,067,386
72: 3,048,777
72. 5: 3,046,482
73: 3,027,512
3,030,579
3,034,051
3,054,052
3,058,061
3,058,062
74: 3,035,227
3,041,533
77: 3,017,573
3,018,439
3,019,389
3,020,477
3,021,478
3,021,479
3,026,475
3,029,385
3,035,228
3,036,268
3,042,864
3,044,014
3,045,180
3,045,181
3,051,897
3,052,843
3,054,053
3,060,380
3,068,406
78: 3,021,480
3,068,406
79: 3,025,467
3,031,619
3,036,269
3,041,534
3,045,182
3,058,063
3,064,189
3,065,417
3,066,257
3,068,407
80: 3,020,478
82: 3,015,776
3,032,715
3,034,052
3,039,054
3,049,667
3,068,407
83: 3,019,390
3,020,478
3,021,481
3,022,459
3,027,513
3,034,053
3,047,802
3,052,844
84: 3,061,780
87: 3,029,566
88: 3,034,054
89: 3,017,574
94: 3,021,482
95: 3,027,514
3,037,167
3,040,252
3,048,778
96: 3,061,781
97: 3,026,476
3,029,567
98: 3,065,418
99: 3,017,575
3,052,845
3,061,782
3,064,191
3,068,408
100: 3,051,898
102: 3,034,055
103: 3,034,056
3,059,181
105: 3,041,903
3,052,846
3,056,086
3,061,784
3,064,196
3,065,424
329: 3,054,956
340: 3,054,056
344: 3,053,981
349: 5,069,625
362: 3,060,381
3,061,785
363: 3,062,955
364: 3,063,010

118: 3,064,192
120: 3,064,193
123: 3,063,009
125: 3,023,362
126: 3,059,182
127: 3,051,899
131: 3,021,483
3,024,415
3,030,580
3,031,620
3,068,410
132: 3,034,057
3,049,668
140: 3,022,460
141: 3,024,416
142: 3,068,411
147: 3,026,477
3,029,388
3,034,058
149: 3,047,804
150: 3,039,055
3,040,253
3,047,805
3,056,923
151: 3,026,478
3,041,536
3,052,847
152: 3,054,953
155: 3,054,054
3,068,412
3,068,413
157: 3,038,121
158: 3,016,489
3,025,468
3,026,479
3,034,059
3,039,056
3,039,057
3,039,058
3,040,254
3,041,537
3,045,184
3,048,779
3,051,900
3,054,055
3,054,954
3,056,924
3,058,064
3,059,183
3,065,419
3,067,387

Class 325

2: 3,045,113
3: 3,065,420
5: 3,045,185
15: 3,041,402
3,054,895
21: 3,039,184
23: 3,068,414
26: 3,061,684
31: 3,048,780
3,058,065
38: 3,041,538
3,051,909
3,056,085
40: 3,051,902
41: 3,048,781
50: 3,042,867
51: 3,041,450
55: 3,065,421
61: 3,068,416
64: 3,042,868
3,061,783
66: 3,049,669
67: 3,056,925
3,056,926
104: 3,068,415
105: 3,049,670
3,050,684
3,066,259
115: 3,064,194
141: 3,065,422
151: 3,069,624
166: 3,061,719
187: 3,044,015
305: 3,048,782
308: 3,064,195
315: 3,041,539
318: 3,059,109
319: 3,054,955
3,056,086
3,061,784
3,064,196
3,065,424
329: 3,054,956
340: 3,054,056
344: 3,053,981
349: 5,069,625
362: 3,060,381
3,061,785
363: 3,062,955
364: 3,063,010

373: 3,051,903
383: 3,054,057
392: 3,043,016
3,052,848
393: 3,054,957
396: 3,059,185
399: 3,056,927
402: 3,042,800
425: 3,056,928
427: 3,061,786
429: 3,045,115
430: 3,046,395
433: 3,045,114
436: 3,042,869
437: 3,070,747
439: 3,041,452
3,059,186
3,063,011
445: 3,048,783
3,059,108
451: 3,042,870
3,054,058
470: 3,041,451
474: 3,064,197
477: 3,057,995
478: 3,056,087
486: 3,051,904
3,069,626
492: 3,070,748

Class 328

8: 3,063,012
13: 3,020,479
3,051,905
14: 3,027,515
3,041,540
3,051,906
15: 3,063,013
16: 3,059,187
22: 3,028,551
26: 3,020,480
3,058,066
3,058,067
27: 3,048,784
28: 3,063,014
30: 3,023,363
3,031,621
31: 3,034,060
3,041,541
34: 3,019,391
3,036,270
3,040,257
3,069,627
35: 3,034,061
37: 3,040,258
3,047,806
41: 3,018,440
3,063,015
42: 3,020,481
3,024,417
3,054,059
3,063,016
43: 3,030,581
44: 3,041,060
48: 3,031,622
3,050,685
52: 3,069,628
55: 3,020,482
3,028,552
3,029,389
3,029,390
3,045,186
3,063,017
3,065,425
3,066,417
56: 3,034,062
3,046,483
3,054,958
3,065,426
58: 3,015,777
3,034,063
3,054,959
62: 3,048,785
63: 3,021,484
64: 3,054,061
65: 3,046,060
67: 3,015,778
68: 3,056,088
72: 3,047,807
85: 3,060,382
92: 3,041,317
3,061,787
3,069,629
94: 3,037,168
97: 3,052,849
99: 3,056,089
101: 3,052,850
104: 3,037,169
109: 3,063,021
3,064,198
110: 3,020,483
3,040,259
3,040,260

110: 3,048,786
112: 3,015,779
3,025,469
3,036,272
115: 3,028,553
3,056,090
116: 3,054,960
117: 3,028,554
119: 3,019,392
121: 3,034,064
3,046,484
3,052,851
3,066,261
122: 3,024,418
124: 3,054,961
127: 3,021,485
3,026,480
3,028,555
3,030,582
3,047,808
129: 3,021,486
130: 3,019,393
3,026,481
132: 3,026,482
133: 3,027,516
3,039,059
3,042,871
3,047,809
3,054,062
3,065,427
3,069,630
134: 3,029,391
3,047,810
136: 3,028,556
137: 3,038,122
3,069,631
138: 3,038,123
141: 3,044,018
142: 3,020,484
3,047,811
3,052,852
145: 3,032,716
146: 3,016,490
147: 3,047,812
3,063,018
148: 3,018,441
150: 3,018,442
3,030,583
3,037,170
3,048,787
154: 3,034,065
158: 3,049,671
160: 3,039,060
162: 3,021,487
168: 3,026,483
169: 3,029,392
3,068,418
171: 3,028,557
3,031,623
3,068,419
176: 3,050,686
177: 3,070,749
178: 3,049,672
180: 3,048,788
185: 3,054,063
195: 3,046,485
196: 3,021,488
3,028,558
3,061,788
3,066,262
203: 3,067,388
205: 3,051,907
207: 3,045,187
209: 3,030,584
223: 3,044,019
227: 3,054,962
235: 3,019,394
242: 3,027,517
252: 3,023,364
258: 3,019,395
267: 3,023,365

Class 329

50: 3,016,491
3,034,066
3,035,230
3,036,273
3,042,872
3,060,383
101: 3,031,624
3,061,789
103: 3,022,461
3,024,419
3,030,585
3,034,020
3,068,420
104: 3,020,485
3,024,420
3,049,673
107: 3,025,470
3,048,789
109: 3,068,421

Class 329—Con.

116: 3,041,542
123: 3,059,188
124: 3,035,231
126: 3,022,462
3,025,471
129: 3,047,813
3,063,019
134: 3,028,559
135: 3,059,189
137: 3,054,064
3,064,199
138: 3,046,486
143: 3,024,421
147: 3,032,717
150: 3,061,790
154: 3,061,791
158: 3,050,687
161: 3,045,188
162: 3,028,560
3,029,393
3,041,543
163: 3,064,200
169: 3,070,750
192: 3,028,561
3,042,873
203: 3,040,261
204: 3,054,963

Class 330

2: 3,035,232
3: 3,020,486
3,029,394
4: 3,023,366
3,023,367
3,038,124
3,054,065
3,056,091
3,064,201
5: 3,016,492
3,018,443
3,022,463
3,051,908
7: 3,040,262
3,045,189
3,031,909
3,068,422
3,070,751
8: 3,016,493
9: 3,065,428
10: 3,018,444
3,039,061
3,040,263
3,058,068
12: 3,063,020
13: 3,018,445
3,022,464
3,067,389
14: 3,015,780
3,018,446
3,023,368
3,032,718
3,042,874
3,054,066
3,068,423
15: 3,015,781
3,036,274
3,054,067
17: 3,042,875
18: 3,024,422
19: 3,025,472
3,030,586
3,042,876
3,046,487
20: Re.25,285
21: 3,061,792
22: 3,018,447
3,070,752
24: 3,016,494
3,023,369
3,027,518
3,035,233
3,041,544
3,050,688
3,052,853
3,054,068
25: 3,034,067
3,040,264
26: 3,065,429
27: 3,061,793
28: 3,019,396
3,040,265
29: 3,021,489
3,032,719
3,036,275
3,048,790
3,064,202
30: 3,022,465
3,046,488
34: 3,050,689
35: 3,040,266
40: 3,047,814
40: 3,064,203
3,068,424
43: 3,018,448
3,051,910
3,051,911
3,054,964
46: 3,017,576
51: 3,020,487
53: 3,021,490
54: 3,064,204
56: 3,016,495
3,017,577
3,022,466
3,040,267
3,044,021
3,056,092
3,066,263
59: 3,020,488
62: 3,020,489
69: 3,051,912
70: 3,024,423
78: 3,044,022
84: 3,039,062
85: 3,020,490
3,027,519
86: 3,047,815
87: 3,017,578
92: 3,038,125
3,059,190
95: 3,034,068
107: 3,066,264
112: 3,029,395
117: 3,050,690
124: 3,050,691
126: 3,040,268
3,067,390
128: 3,041,545
133: 3,050,692
136: 3,025,473
3,051,913
138: 3,036,276
145: 3,015,782
3,030,587
147: 3,027,520
148: 3,061,794
149: 3,042,877
160: 3,025,474
165: 3,034,060
173: 3,024,424
185: 3,048,791
199: 3,046,489

Class 331

1: 3,046,490
3: 3,021,491
3,038,126
3,042,878
3,054,069
3,060,384
3,060,385
4: 3,039,063
8: 3,031,625
10: 3,050,693
3,063,021
11: 3,023,370
3,032,720
3,070,753
12: 3,041,546
13: 3,065,430
17: 3,054,965
20: 3,042,879
26: 3,030,588
28: 3,021,492
37: 3,031,626
38: 3,017,579
3,023,371
3,024,425
39: 3,023,372
3,049,674
40: 3,023,373
43: 3,029,396
44: 3,049,675
45: 3,041,547
3,050,694
47: 3,047,391
3,069,632
49: 3,047,816
3,070,754
51: 3,052,854
52: 3,046,491
3,050,695
3,061,795
54: 3,015,783
3,067,392
56: 3,034,070
57: 3,030,589
3,047,817
59: 3,044,023
61: 3,048,792
62: 3,032,721
3,038,127
3,044,024
65: 3,019,397
66: 3,047,818
3,054,966
69: 3,041,548
3,041,549
73: 3,041,550
74: 3,022,467
3,034,071
75: 3,041,551
3,048,793
3,054,967
3,056,930
76: 3,054,968
3,054,969
78: 3,023,374
3,025,475
3,045,190
3,048,794
3,049,676
80: 3,056,093
82: 3,027,521
3,068,425
83: 3,039,064
3,046,492
86: 3,070,755
90: 3,029,397
96: 3,063,022
107: 3,022,468
3,026,484
3,041,552
3,047,819
3,054,070
3,054,071
3,054,970
3,060,386
108: 3,026,485
3,037,171
3,045,191
3,054,072
3,054,971
109: 3,064,205
3,070,756
110: 3,031,627
3,032,722
3,042,880
3,061,796
3,070,757
111: 3,015,784
3,045,192
3,046,493
3,046,494
3,049,677
3,056,931
3,070,758
112: 3,023,375
3,038,128
3,066,265
3,069,633
113: 3,020,491
3,026,486
3,029,398
3,030,590
3,031,628
3,031,629
3,034,072
3,039,065
3,039,066
3,040,269
3,040,270
3,040,271
3,046,495
3,051,914
3,056,094
3,058,069
3,059,191
3,065,431
3,070,759
114: 3,034,073
3,061,797
115: 3,054,972
116: 3,025,476
3,026,487
117: 3,015,785
3,038,129
3,039,067
3,042,881
3,061,798
131: 3,023,376
135: 3,024,426
143: 3,042,820
152: 3,048,795
154: 3,040,272
158: 3,020,492
159: 3,068,426
164: 3,064,206
166: 3,017,580
168: 3,049,678
172: 3,030,591
177: Re.25,256
180: 3,017,581
183: 3,024,427
3,060,387
185: 3,056,932

Class 332

1: 3,018,449
2: 3,034,074
3: 3,030,696
7: 3,064,207
8: 3,069,634
9: 3,038,130
3,060,388
3,064,208
10: 3,035,234
14: 3,017,582
3,022,469
3,037,172
3,040,273
3,061,799
3,061,800
3,067,393
16: 3,020,493
3,036,277
3,041,553
17: 3,054,073
19: 3,045,193
3,046,496
3,048,796
3,065,432
22: 3,017,583
23: 3,023,377
3,061,801
26: 3,026,488
3,061,802
27: 3,054,973
29: 3,063,023
30: 3,025,477
3,068,427
31: 3,048,797
37: 3,052,855
38: 3,060,389
3,065,433
43: 3,046,497
3,064,209
44: 3,036,489
3,027,522
3,029,399
45: 3,027,523
47: 3,034,075
3,050,697
3,056,095
48: 3,040,274
51: 3,050,698
52: 3,023,378
3,044,025
3,044,210
68: 3,028,562

Class 333

1.1: 3,063,024
3,070,760
3: 3,060,390
6: 3,017,584
3,031,630
3,052,856
3,063,025
7: 3,016,496
3,017,585
3,022,470
3,027,524
3,028,563
3,031,631
3,032,723
3,038,131
3,042,882
3,059,192
3,064,211
3,064,212
9: 3,015,786
3,015,787
3,018,450
3,020,494
3,023,379
3,025,478
3,034,076
3,036,278
3,036,279
3,058,070
3,068,428
3,069,635
10: 3,020,495
3,040,275
3,042,883
3,044,026
3,048,798
3,056,096
3,063,026
11: 3,026,490
3,037,173
3,048,799
3,050,699
3,058,071
3,068,429
13: 3,023,380
3,038,132
3,049,679
13: 3,059,193
17: 3,017,586
3,022,471
3,024,428
3,032,724
3,067,394
18: 3,022,472
20: 3,032,725
21: 3,046,498
22: 3,030,592
3,036,280
3,044,027
3,054,074
24: 3,015,788
3,016,497
3,030,593
3,035,235
3,038,133
3,040,276
3,041,554
3,047,821
3,049,680
3,049,681
3,059,194
3,067,395
24.2: 3,063,027
3,063,028
3,068,430
25: 3,066,266
28: 3,022,473
3,041,555
3,046,499
29: 3,046,500
3,050,700
30: 3,016,498
3,020,496
3,020,497
3,025,479
3,034,077
3,037,174
3,041,556
3,045,501
3,046,502
3,051,915
3,051,916
3,070,761
31: 3,017,587
3,019,398
3,047,822
3,048,800
3,048,801
3,051,917
3,051,918
3,068,431
3,068,432
32: 3,037,175
33: 3,016,499
3,020,498
3,023,381
3,025,480
3,025,481
34: 3,016,500
3,019,399
3,023,382
3,040,277
3,050,701
70: 3,049,682
3,052,857
3,065,434
3,069,636
3,070,762
71: 3,044,028
3,064,213
72: 3,015,789
3,018,451
3,024,429
3,028,564
3,047,823
3,051,919
73: 3,019,400
3,024,430
3,027,525
3,035,236
3,046,503
3,056,933
3,058,072
3,060,391
76: 3,024,884
3,042,885
77: 3,019,401
3,029,400
78: 3,021,493
79: 3,023,383
3,035,237
3,038,134
3,060,392
80: 3,041,557
3,045,194
3,046,504
3,051,920
81: 3,015,790
3,019,402
3,022,474
3,041,558
3,046,505
81: 3,046,506
3,049,683
3,056,097
3,063,029
3,065,435
3,070,763
3,070,764
82: 3,020,499
3,020,500
3,061,803
83: 3,016,501
3,030,594
3,034,078
3,036,281
3,048,802
3,048,803
3,063,030
3,066,267
95: 3,016,502
3,016,503
3,018,452
3,028,565
3,040,278
3,046,507
3,066,268
96: 3,054,075
97: 3,022,475
3,036,282
98: 3,016,504
3,018,453
3,018,454
3,020,501
3,022,476
3,023,384
3,032,726
3,032,727
3,034,079
3,034,080
3,039,068
3,041,559
3,042,886
3,048,804
3,049,684
3,050,702
3,058,073
3,058,074
3,064,214
3,066,269

Class 334

15: 3,046,508
16: 3,069,637
43: 3,056,098
45: 3,064,215
46: 3,047,824
49: 3,064,216
50: 3,066,270
51: 3,016,505
3,058,075
3,069,638
57: 3,069,639
77: 3,022,477

Class 336

5: 3,025,482
20: 3,026,491
3,056,099
3,060,393
30: 3,019,403
3,030,595
3,035,238
3,039,069
3,040,279
3,044,029
3,052,858
3,058,076
3,064,217
3,070,765
45: 3,041,560
57: 3,028,566
60: 3,032,728
3,044,030
3,045,195
3,054,974
61: 3,030,596
62: 3,024,431
65: 3,024,432
3,028,567
66: 3,027,526
67: 3,035,239
3,050,703
69: 3,069,640
70: 3,026,492
3,028,568
3,028,569
3,044,031
73: 3,020,502
77: 3,059,195
83: 3,028,570
3,037,176
3,068,433
84: 3,032,729
3,041,561
84: 3,061,804
87: 3,031,632
90: 3,027,527
3,054,975
3,070,766
92: 3,024,433
3,029,401
3,030,597
3,040,280
94: 3,068,434
96: 3,024,434
3,041,562
100: 3,018,455
110: 3,018,456
3,020,503
129: 3,064,218
131: 3,052,859
134: 3,032,730
135: 3,017,588
3,045,196
3,045,197
3,061,805
136: 3,017,589
3,017,590
3,031,633
3,054,976
3,061,394
142: 3,044,032
149: 3,041,563
150: 3,058,077
155: 3,064,219
3,068,541
165: 3,023,385
3,038,135
180: 3,029,402
3,052,860
3,068,435
182: 3,058,078
187: 3,023,386
192: 3,041,564
198: 3,023,387
206: 3,068,281
207: 3,046,509
210: 3,037,177
211: 3,069,642
212: 3,068,436
213: 3,025,483
3,068,437
215: 3,017,591
217: 3,015,791
3,041,565
3,061,220
3,069,643
219: 3,029,403

Class 338

2: 3,031,634
3,049,685
3,060,395
3,064,221
4: 3,020,240
3,060,396
5: 3,036,283
3,037,178
12: 3,056,934
13: 3,045,198
17: 3,027,528
18: 3,052,861
3,054,977
19: 3,032,731
3,069,644
20: 3,024,435
21: 3,040,282
22: 3,016,506
3,068,438
24: 3,054,978
25: 3,056,100
3,064,222
28: 3,017,592
3,019,404
3,027,529
3,037,179
3,061,806
31: 3,022,478
3,025,484
3,039,070
32: 3,024,507
3,038,136
3,041,566
3,042,887
3,049,686
3,059,196
35: 3,056,935
3,058,079
39: 3,018,457
3,069,645
40: 3,020,504
41: 3,030,598
3,032,732
3,032,733
43: 3,020,505
44: 3,042,888
63: 3,041,567
66: 3,045,199

67: 3,056,936
69: 3,041,568
70: 3,070,767
77: 3,025,485
86: 3,020,506
89: 3,046,510
3,068,439
130: 3,027,530
143: 3,017,593
3,018,458
3,020,507
3,028,571
3,031,137
3,038,080
3,059,197
3,069,646
145: 3,015,792
148: 3,021,494
154: 3,067,996
3,070,768
162: 3,015,793
3,020,508
3,054,076
163: 3,032,734
3,044,033
3,059,198
3,059,199
172: 3,023,388
3,047,825
174: 3,035,241
3,045,200
3,059,200
175: 3,054,077
176: 3,021,495
3,028,572
3,061,807
180: 3,018,459
3,050,704
3,051,921
3,069,647
3,069,648
183: 3,026,493
3,027,531
3,029,404
3,030,599
3,036,284
3,049,687
195: 3,036,537
203: 3,041,569
216: 3,059,201
219: 3,017,594
221: 3,048,805
224: 3,051,522
257: 3,023,389
242: 3,061,808
243: 3,065,436
3,067,397
258: 3,052,862
261: 3,051,923
3,064,223
275: 3,063,031
280: 3,027,332
284: 3,044,034
294: 3,049,071
308: 3,068,440
309: 3,023,390
3,056,938
317: 3,068,441
319: 3,067,398
327: 3,037,180
329: 3,040,283
3,047,826
330: 3,051,924
333: 3,058,081

Class 339

2: 3,030,600
4: 3,015,606
5: 3,020,509
3,021,496
3,021,497
3,038,138
3,047,827
3,059,202
3,059,203
3,060,397
6: 3,032,735
3,034,081
3,056,101
8: 3,017,595
3,022,479
3,034,082
3,058,082
12: 3,038,139
3,048,807
3,049,688
13: 3,046,511
14: 3,015,794
3,015,795
3,017,596
3,027,533
3,029,405
14: 3,031,635
3,032,736
3,034,083
3,034,084
3,036,285
3,045,201
3,046,512
3,059,204
3,060,398
3,061,809
3,064,224
3,065,437
3,066,271
16: 3,034,085
3,065,438
17: 3,015,796
3,015,797
3,016,508
3,020,510
3,024,436
3,026,494
3,028,573
3,034,086
3,034,087
3,037,181
3,049,689
3,050,705
3,056,939
3,058,083
3,059,205
18: 3,021,498
3,022,480
3,024,437
3,027,534
3,054,078
3,065,439
3,065,440
19: 3,035,242
21: 3,044,035
22: 3,021,499
3,042,889
3,042,890
3,044,036
3,061,810
28: 3,024,438
3,056,102
31: 3,023,391
3,025,486
32: 3,054,079
33: 3,023,392
3,067,399
36: 3,019,405
3,041,570
3,068,442
45: 3,015,798
3,025,487
3,034,088
3,035,243
3,042,891
3,049,690
3,052,863
3,059,206
3,059,207
3,063,032
3,069,649
46: 3,067,400
49: 3,016,509
3,034,089
3,054,979
3,065,441
3,070,769
50: 3,058,084
53: 3,048,808
3,052,864
3,058,085
3,060,399
3,060,400
56: 3,064,225
59: 3,029,406
3,069,650
60: 3,029,407
3,066,272
61: 3,028,574
3,034,090
3,038,140
3,040,284
62: 3,026,495
63: 3,067,401
64: 3,017,597
3,025,488
3,040,285
3,040,286
3,045,202
3,047,828
3,056,940
3,064,226
3,070,770
65: 3,020,511
3,048,809
3,059,208
66: 3,054,080
3,061,811
67: 3,020,512
3,069,651
72: 3,056,941
75: 3,017,598
3,021,500
3,022,481
3,029,408
3,030,601
3,041,571
3,048,810
3,059,209
89: 3,022,482
3,031,636
3,039,072
3,044,037
90: 3,054,980
91: 3,017,599
3,020,513
3,044,038
3,044,039
3,046,513
3,051,925
3,066,273
92: 3,018,460
3,027,535
3,030,602
3,041,572
3,056,942
3,067,402
93: 3,041,573
94: 3,040,287
3,041,574
3,058,086
3,059,210
95: 3,018,461
3,019,406
3,020,514
3,020,515
3,030,603
3,039,073
3,049,691
3,058,087
3,064,227
3,065,442
97: 3,016,510
3,027,536
3,058,088
3,066,274
98: 3,030,604
99: 3,039,074
3,041,575
3,055,943
100: 3,042,892
3,046,514
3,064,228
101: 3,020,516
3,032,737
103: 3,034,091
3,040,288
3,054,081
3,056,944
105: 3,031,637
108: 3,022,483
109: 3,036,286
111: 3,046,515
112: 3,018,462
3,025,489
3,042,893
113: 3,036,287
3,067,403
118: 3,023,393
3,064,229
119: 3,025,490
3,034,092
125: 3,060,401
126: 3,016,511
3,030,605
3,040,289
3,046,516
3,052,865
3,059,211
127: 3,047,829
129: 3,022,484
142: 3,042,894
147: 3,054,082
149: 3,017,600
3,029,409
3,037,182
150: 3,065,443
154: 3,059,212
155: 3,019,407
3,032,738
156: 3,035,244
157: 3,017,601
159: 3,051,288
164: 3,018,463
3,020,517
3,038,141
3,040,290
174: 3,017,602
3,047,830
3,070,771
175: 3,022,485
176: 3,025,491
3,032,739
3,034,093
3,040,291
3,042,895
3,047,831
3,048,811
3,059,213
3,065,444
3,065,445
3,066,275
3,069,652
177: 3,025,492
3,054,981
180: 3,058,089
182: 3,063,033
184: 3,039,075
3,059,214
3,065,446
3,065,447
186: 3,017,603
3,023,394
189: 3,066,276
191: 3,029,518
3,023,395
3,027,537
192: 3,041,576
3,059,215
193: 3,020,496
3,058,090
194: 3,017,604
195: 3,027,538
3,032,740
197: 3,045,203
198: 3,018,464
3,019,408
3,021,501
3,024,439
3,034,094
3,042,896
3,045,204
3,056,103
202: 3,021,502
3,052,866
213: 3,021,503
3,054,083
217: 3,016,512
3,028,575
3,029,410
3,031,638
3,031,639
3,031,640
3,037,183
3,047,832
3,052,867
3,058,091
3,059,216
3,064,230
3,065,448
3,068,443
219: 3,019,409
220: 3,068,444
221: 3,041,577
228: 3,064,231
236: 3,047,833
3,047,834
242: 3,047,835
3,060,402
244: 3,052,868
245: 3,066,277
246: 3,026,497
3,050,706
3,068,445
247: 3,045,205
3,065,449
249: 3,015,799
252: 3,017,605
3,032,741
3,039,076
3,048,812
253: 3,019,410
3,065,450
255: 3,028,577
3,046,517
3,064,232
256: 3,029,411
3,031,641
258: 3,023,396
3,060,403
3,065,451
261: 3,031,642
265: 3,037,184
273: 3,020,519
3,020,520
3,044,040
274: 3,065,452
276: 3,040,292
278: 3,070,772

Class 340

1: 3,019,411
3,028,578
1: 3,038,142
3: 3,016,513
3,016,514
3,017,606
3,022,486
3,031,644
3,034,095
3,035,245
3,036,289
3,037,185
3,040,293
3,045,206
3,048,813
3,061,812
3,064,233
3,064,234
3,066,278
3,066,279
4: 3,024,440
3,048,814
5: 3,017,607
3,017,608
3,021,504
3,027,539
3,038,143
3,039,077
3,039,078
3,056,104
3,059,217
3,064,235
3,070,773
6: 3,015,800
3,024,441
3,025,493
3,039,079
3,042,897
3,050,707
7: 3,019,412
8: 3,018,465
3,018,466
3,030,606
3,054,084
3,068,446
3,070,774
10: 3,027,540
3,048,815
3,054,982
3,070,775
12: 3,018,467
3,022,487
3,027,541
3,048,816
15: 3,018,468
3,019,413
3,020,521
3,022,488
3,022,489
3,023,397
3,024,442
3,028,579
3,032,742
3,032,743
3,037,186
3,038,144
3,040,294
3,044,041
3,045,207
3,070,776
15.5: Re.25,194
3,041,578
3,042,898
3,044,042
3,047,836
3,048,817
3,051,926
3,056,945
3,060,404
3,061,813
3,063,034
3,065,453
3,065,454
3,070,777
16: 3,032,744
3,065,455
17: 3,051,927
3,054,085
3,059,218
3,063,035
3,065,456
3,067,404
18: Re.25,209
3,015,801
3,019,414
3,056,105
3,068,447
19: 3,040,295
21: 3,030,607
3,048,818
22: 3,037,837
23: 3,050,708
25: 3,031,645
3,054,086
26: 3,050,709
3,060,405
27: 3,017,609
3,021,505
3,025,494
3,034,096
3,050,710
31: 3,018,469
3,024,443
3,047,838
3,054,087
3,056,106
3,060,406
32: 3,044,043
33: 3,020,522
35: 3,056,946
36: 3,056,107
38: 3,030,608
3,042,899
3,046,518
3,046,519
3,052,869
3,068,448
39: 3,046,520
40: 3,015,802
41: 3,035,246
3,046,521
50: 3,054,983
51: 3,018,470
3,023,398
3,046,522
52: 3,020,523
3,034,097
3,047,839
58: 3,015,803
3,016,515
61: 3,037,187
64: 3,058,092
69: 3,052,870
73: 3,068,449
81: 3,015,804
3,034,098
3,054,088
82: 3,019,415
3,041,579
84: 3,060,407
87: 3,041,580
91: 3,037,188
104: 3,026,498
105: 3,054,089
107: 3,045,208
120: 3,022,490
133: 3,022,491
146.1: 3,046,523
3,048,819
3,049,692
3,056,108
3,061,814
146.2: 3,059,219
146.3: 3,050,711
3,058,093
3,065,457
3,069,653
3,069,654
147: 3,015,805
3,015,806
3,016,516
3,016,517
3,020,524
3,021,506
3,024,444
3,027,542
3,031,646
3,035,247
3,036,290
3,040,296
3,045,209
3,046,524
3,058,094
3,059,220
3,061,815
3,061,816
3,069,655
3,070,778
149: 3,016,518
3,018,471
3,019,416
3,023,399
3,025,495
3,039,080
3,049,693
3,054,090
3,068,450
150: 3,040,297
3,045,210
3,050,712
151: 3,069,656
154: 3,054,984
162: 3,021,507
3,028,580
163: 3,021,508
3,034,099
163: 3,034,100
3,035,248
3,035,249
3,046,525
3,048,820
164: 3,025,496
3,046,526
3,056,109
3,058,095
3,064,236
3,067,405
166: 3,021,509
3,025,497
3,028,581
3,037,189
3,047,840
3,048,821
3,054,985
3,058,096
3,064,237
3,065,458
3,070,779
167: 3,027,543
3,046,527
3,047,841
3,048,822
3,051,928
3,052,871
3,054,238
168: 3,042,900
3,061,817
170: 3,032,745
3,037,190
171: 3,016,519
3,022,492
3,022,493
3,028,582
3,035,250
3,035,251
3,039,081
3,040,298
3,060,408
3,069,657
172: 3,050,713
172.5: 3,017,610
3,017,611
3,018,472
3,019,417
3,023,525
3,024,445
3,025,498
3,025,499
3,027,544
3,028,583
3,029,412
3,029,413
3,029,414
3,030,609
3,031,647
3,032,746
3,032,747
3,034,101
3,034,102
3,034,103
3,034,104
3,034,105
3,035,252
3,036,291
3,036,292
3,037,191
3,037,192
3,037,193
3,037,194
3,038,145
3,040,299
3,040,300
3,041,581
3,042,901
3,042,902
3,042,903
3,045,211
3,045,212
3,045,213
3,046,528
3,049,694
3,051,929
3,054,986
3,054,987
3,054,988
3,056,110
3,056,111
3,056,947
3,059,221
3,059,222
3,060,409
3,061,818
3,063,036
3,064,239
3,064,240
3,066,280
3,067,406
3,069,658
3,069,659

Class 340—Con.
172.5: 3,070,780
173: 3,016,520
3,017,612
3,017,613
3,034,106
3,037,195
3,045,214
3,048,823
3,048,824
3,050,714
3,056,112
3,056,113
3,059,223
3,061,819
3,063,037
3,064,241
3,067,407
3,069,660
173.1: 3,048,825
3,065,459
173.2: 3,021,510
3,037,196
3,042,904
3,046,529
3,054,091
174: Re.25,148
3,015,807
3,015,808
3,015,809
3,016,521
3,017,614
3,017,615
3,019,418
3,019,419
3,021,511
3,023,400
3,023,401
3,023,402
3,024,446
3,024,447
3,025,500
3,025,501
3,025,502
3,026,499
3,027,545
3,027,546
3,027,547
3,027,548
3,029,415
3,030,610
3,030,611
3,030,612
3,030,613
3,031,648
3,031,649
3,031,650
3,032,748
3,032,749
3,034,107
3,034,108
3,035,253
3,035,254
3,036,293
3,037,197
3,037,198
3,037,199
3,038,146
3,038,147
3,039,082
3,039,083
3,040,301
3,040,302
3,040,303
3,040,304
3,040,305
3,041,582
3,041,583
3,041,584
3,042,905
3,044,044
3,045,215
3,045,216
3,046,530
3,046,531
3,046,532
3,047,842
3,047,843
3,048,826
3,048,827
3,048,828
3,048,829
3,049,695
3,049,696
3,050,715
3,050,716
3,051,930
3,051,931
3,052,872
3,052,873
3,054,092
3,054,093
3,054,904
174: 3,054,989
3,056,114
3,056,115
3,056,116
3,056,117
3,056,118
3,056,948
3,058,097
3,058,098
3,058,099
3,059,224
3,059,225
3,059,226
3,059,227
3,060,410
3,060,411
3,060,412
3,061,820
3,061,821
3,063,038
3,066,281
3,066,282
3,066,283
3,067,408
3,068,451
3,068,452
3,068,453
3,069,661
3,069,662
3,069,663
3,069,664
3,069,665
3,070,781
3,070,782
3,070,783
174.1: 3,015,810
3,016,522
3,016,523
3,016,524
3,017,616
3,017,617
3,019,420
3,019,421
3,019,422
3,020,526
3,021,512
3,022,494
3,022,495
3,023,403
3,023,404
3,024,448
3,025,503
3,026,500
3,027,549
3,027,550
3,028,584
3,029,416
3,031,651
3,032,750
3,034,109
3,034,110
3,034,111
3,035,255
3,037,200
3,038,148
3,039,084
3,040,306
3,040,307
3,041,585
3,041,586
3,042,906
3,044,045
3,045,217
3,045,218
3,045,219
3,045,220
3,047,844
3,048,830
3,048,831
3,049,697
3,049,698
3,050,717
3,052,874
3,054,990
3,056,119
3,056,949
3,056,950
3,058,100
3,060,413
3,060,414
3,061,822
3,063,039
3,063,040
3,063,041
3,063,042
3,064,242
3,064,243
3,065,460
3,065,461
3,067,409
3,068,454
3,068,455
3,069,666
3,069,667
177: 3,024,449
178: 3,029,417
3,046,533
3,068,456
3,069,668
179: 3,037,201
3,059,228
182: 3,026,501
184: 3,044,046
3,047,845
3,054,095
187: 3,026,502
3,048,832
3,051,932
3,051,933
3,060,415
3,061,823
3,061,824
3,063,043
188: 3,027,551
3,046,534
3,069,669
3,069,670
196: 3,020,527
198: 3,032,751
3,038,149
3,041,587
3,044,047
199: 3,046,535
3,047,846
200: 3,031,652
3,068,457
202: 3,029,418
203: 3,029,419
3,050,718
3,052,875
204: 3,030,614
3,032,752
206: 3,026,504
3,050,719
3,068,458
213: Re.25,214
3,017,618
3,017,619
3,021,513
3,028,585
3,029,420
3,029,421
3,029,422
3,039,085
3,040,308
3,041,588
3,044,048
3,045,221
3,045,222
3,056,120
3,058,101
3,060,416
3,064,244
3,065,462
3,067,410
214: 3,022,496
223: 3,039,086
224: 3,051,934
3,056,951
225: 3,056,121
226: 3,063,044
227: 3,015,811
3,024,450
3,028,586
3,036,294
3,044,049
3,044,050
3,046,536
3,052,876
3,059,229
3,060,417
3,060,418
3,061,825
3,064,245
228: 3,041,589
3,048,833
232: 3,056,122
234: 3,045,223
3,046,537
235: 3,020,528
3,047,847
236: 3,068,459
237: 3,027,552
3,041,590
3,041,591
3,042,907
3,056,123
3,061,826
239: 3,058,102
240: 3,025,504
3,025,505
3,048,834
242: 3,016,525
244: 3,022,497
3,042,908
3,050,720
3,054,096
3,069,671
248: 3,017,620
3,021,514
3,034,112
3,038,150
3,044,051
3,054,097
249: 3,030,615
3,061,827
250: 3,031,653
3,040,309
3,045,224
3,047,848
251: 3,054,991
3,061,828
3,067,411
252: 3,028,587
253: 3,020,529
3,021,515
3,022,498
3,024,451
3,026,505
3,029,423
3,056,124
3,068,460
255: 3,066,284
258: 3,022,499
3,031,643
3,036,295
3,041,592
3,047,849
3,047,850
3,061,829
259: 3,044,052
3,046,538
3,052,877
3,067,412
261: 3,036,296
3,038,151
3,049,599
3,049,700
3,050,952
3,069,672
263: 3,059,230
265: 3,026,506
3,042,909
267: 3,030,616
3,032,753
269: 3,027,553
271: 3,026,507
273: 3,051,935
274: 3,024,452
3,029,424
3,029,425
3,036,297
3,036,298
3,041,593
3,056,125
3,070,784
276: 3,025,506
3,069,673
279: 3,019,423
3,026,503
3,045,225
280: 3,024,453
3,042,910
3,044,053
3,045,226
3,051,936
282: 3,015,812
3,017,621
3,017,622
3,019,424
3,026,508
3,032,754
3,039,087
3,052,878
3,056,953
283: 3,041,594
309.1: 3,041,654
309.4: 3,054,992
311: 3,044,054
315: 3,035,256
316: 3,056,126
321: 3,055,954
322: 3,017,623
324: 3,016,526
3,017,624
3,017,625
3,020,530
3,020,531
3,024,454
3,025,507
3,037,202
3,041,595
3,047,851
3,047,852
3,054,993
3,056,955
3,060,419
326: 3,054,994
331: 3,018,473
332: 3,051,937
3,070,785
334: 3,019,425
334: 3,020,532
3,054,995
3,067,413
338: 3,041,596
339: 3,041,597
3,064,246
345: 3,021,516
3,025,508
3,028,588
3,034,113
3,045,227
347: 3,015,813
3,015,814
3,015,815
3,016,527
3,016,528
3,017,626
3,019,426
3,019,427
3,020,533
3,020,534
3,020,535
3,021,517
3,021,518
3,022,500
3,023,405
3,023,406
3,025,509
3,025,510
3,025,511
3,026,509
3,026,510
3,026,511
3,028,589
3,028,590
3,030,617
3,030,618
3,030,619
3,034,114
3,035,257
3,035,258
3,036,299
3,038,152
3,038,153
3,041,598
3,041,599
3,042,911
3,042,912
3,045,228
3,045,229
3,045,230
3,046,539
3,046,540
3,046,541
3,046,542
3,046,543
3,047,853
3,047,854
3,047,855
3,049,701
3,050,721
3,051,938
3,051,939
3,051,940
3,051,941
3,051,942
3,051,943
3,052,879
3,052,880
3,054,098
3,054,996
3,056,956
3,060,420
3,064,247
3,064,248
3,066,285
3,066,286
3,066,287
3,067,414
3,068,461
3,068,462
3,068,463
3,068,464
3,070,786
3,070,787
3,070,788
3,070,789
348: 3,024,455
350: 3,017,627
351: 3,053,045
364: 3,020,536
365: 3,022,501
3,069,674
366: 3,018,474
3,022,502
3,031,655
3,038,154
3,063,046
373: 3,021,519
3,025,512
3,026,512
3,036,300
378: 3,041,600
381: 3,019,428
3,059,231
384: 3,021,520
3,051,944
3,052,881
3,055,957
3,058,103
3,070,790
388: 3,042,913
3,046,544
391: 3,041,601
392: 3,027,554
3,054,997
3,070,791
405: 3,069,675
Class 343
5: 3,016,529
3,017,628
3,017,629
3,021,521
3,023,407
3,025,513
3,025,514
3,028,591
3,031,656
3,031,657
3,032,755
3,035,259
3,039,088
3,039,089
3,039,090
3,039,091
3,042,914
3,045,231
3,046,545
3,047,856
3,049,702
3,049,703
3,052,882
3,054,998
3,054,999
3,055,000
3,056,127
3,060,421
3,064,249
3,067,415
3,067,416
3,068,465
3,068,466
3,069,677
3,070,792
6: 3,025,515
3,029,426
3,031,658
3,032,756
3,034,115
3,049,704
3,049,705
6.5: 3,025,516
3,035,260
3,035,261
3,035,262
3,051,941
3,047,857
3,047,858
3,049,706
3,054,099
3,054,100
3,055,601
3,058,104
6.8: 3,015,816
3,018,475
3,032,757
3,042,535
3,051,945
7: 3,018,476
3,034,116
3,040,310
3,041,955
3,046,546
3,048,836
3,054,101
3,063,047
3,070,793
7.3: 3,015,817
3,015,818
3,021,522
3,035,263
3,040,311
3,040,312
3,041,602
3,051,946
3,054,102
3,056,128
3,060,422
3,064,250
3,068,468
3,068,469
3,070,794
7.4: 3,020,537
3,020,538
3,026,513
3,044,056
7.7: 3,015,819
3,018,477
3,020,539
7.7: 3,026,514
3,031,659
3,042,915
3,044,057
3,046,547
3,046,548
3,051,947
3,064,251
3,066,288
3,066,289
7.9: 3,023,408
3,044,058
8: 3,020,540
3,024,456
3,028,592
3,029,427
3,044,059
3,045,232
3,047,859
3,059,232
3,061,830
3,067,417
9: 3,032,758
3,065,463
3,068,469
11: 3,016,530
3,019,429
3,020,541
3,031,660
3,034,117
3,037,203
3,040,313
3,050,722
3,050,723
3,056,129
3,067,418
3,069,678
12: 3,019,430
3,022,503
3,068,470
13: 3,023,409
3,029,428
3,030,620
3,035,264
3,049,707
3,054,103
3,058,105
3,065,464
14: 3,026,515
3,045,233
3,054,104
3,065,465
3,068,471
16: 3,025,517
3,029,429
3,032,759
3,048,837
3,050,724
3,060,423
3,064,252
3,064,253
3,070,795
17: 3,050,725
17.1: 3,016,531
3,017,630
3,019,431
3,024,457
3,024,458
3,028,593
3,038,155
3,040,314
3,044,060
3,050,726
3,067,419
17.2: 3,028,594
3,039,092
17.5: 3,024,459
17.7: 3,015,820
3,018,478
3,024,460
3,024,461
3,048,838
3,060,424
18: 3,016,532
3,019,432
3,019,433
3,020,542
3,021,523
3,039,093
3,041,603
3,041,604
3,044,061
3,047,860
3,068,472
100: 3,020,543
3,020,544
3,028,595
3,028,596
3,028,597
3,031,661
3,034,118
3,036,301
3,037,204
3,041,605

100: 3,041,606
3,042,916
3,044,062
3,044,063
3,048,839
3,048,840
3,049,708
3,058,106
3,058,107
3,058,108
3,066,290
101: 3,019,434
3,028,598
3,040,315
3,048,841
103: 3,016,533
3,020,545
3,025,518
3,034,119
3,044,064
3,051,948
105: 3,019,435
3,019,436
3,024,462
3,025,519
3,025,520
3,027,555
3,027,556
3,051,949
106: 3,020,546
3,023,410
3,045,234
3,051,950
3,051,951
3,066,291
107: 3,030,621
3,038,156
3,041,607
108: 3,031,662
3,040,316
3,048,842
112: 3,025,521
3,047,891
3,056,988
3,059,233
3,060,425
3,060,426
112: 3,063,048
3,068,473
3,070,796
113: 3,025,522
3,028,599
3,028,600
3,034,120
3,035,265
3,039,094
3,046,549
3,047,862
3,048,843
3,050,727
3,054,105
3,055,002
3,056,959
3,064,754
3,068,474
114: 3,020,547
117: 3,031,663
3,040,317
3,042,917
3,047,863
3,064,255
118: 3,023,411
3,060,427
119: 3,032,760
3,050,728
3,050,729
120: 3,047,864
3,064,256
121: 3,020,548
3,061,831
178: 3,022,504
180: 3,041,608
3,045,235
200: 3,068,475
3,069,679
225: 3,017,631
3,049,709
226: 3,049,710
227: 3,044,665
701: 3,067,420
702: 3,049,711
703: 3,029,430
3,068,476
704: 3,042,918
705: 3,025,523
3,026,516
3,045,236
708: 3,039,095
709: 3,068,477
717: 3,066,292
725: 3,016,534
3,019,437
741: 3,051,952
747: 3,064,257
753: 3,015,821
754: 3,045,237
3,054,106
756: 3,027,557
3,029,431
3,031,664
3,046,550
3,055,003
3,068,478
757: 3,064,258
758: 3,026,517
3,032,761
760: 3,040,318
761: 3,039,096
3,040,319
3,054,107
762: 3,018,479
766: 3,041,609
767: 3,022,505
3,036,302
3,056,130
3,066,293
768: 3,029,432
3,069,680
770: 3,031,665
3,034,121
771: 3,015,822
3,018,480
3,020,549
3,022,506
3,031,666
3,032,762
3,039,097
3,039,098
3,044,066
3,063,049
776: 3,045,238
776: 3,045,239
777: 3,048,844
778: 3,046,551
779: 3,067,421
781: 3,021,524
3,044,067
3,055,004
3,056,131
783: 3,024,463
787: 3,016,535
788: 3,031,667
3,034,122
790: 3,031,668
793: 3,030,622
3,032,763
795: 3,020,550
3,056,960
3,059,234
799: 3,035,266
801: 3,016,536
802: 3,052,883
805: 3,045,240
818: 3,022,507
819: 3,017,632
823: 3,025,524
830: 3,048,845
843: 3,019,438
3,030,730
3,066,294
850: 3,016,537
851: 3,039,099
3,060,428
853: 3,017,633
3,019,439
854: 3,056,961
872: 3,039,100
874: 3,066,295
895: 3,015,823
911: 3,055,005
912: 3,029,433

Class 346

1: 3,039,101
3,040,320
3,040,321
3,044,068
1: 3,048,846
3,048,847
3,050,731
3,058,109
3,060,429
3,063,050
3,065,466
7: 3,059,235
8: 3,026,164
3,036,303
3,059,236
3,059,237
14: 3,020,114
17: 3,020,115
3,044,069
3,046,553
3,066,296
20: 3,022,130
21: 3,024,077
22: 3,038,157
3,042,919
3,042,920
3,056,132
3,056,133
3,056,134
3,065,467
23: 3,024,078
24: 3,034,123
3,051,953
29: 3,019,072
3,046,554
3,052,884
30: 3,042,921
32: 3,060,430
3,066,297
3,070,797
33: 3,028,213
3,038,158
3,040,322
3,041,610
3,058,110
3,063,051
34: 3,025,123
3,038,111
3,059,238
37: 3,056,135
3,070,798
38: 3,019,073
45: 3,042,922
46: 3,070,799
50: 3,029,120
54: 3,020,115
62: 3,016,278
3,032,764
66: 3,020,116
69: 3,047,865
74: 3,015,533
3,017,234
3,018,152
3,020,117
3,020,118
3,023,070
3,025,124
3,030,168
3,032,765
3,034,124
3,036,304
3,037,205
3,039,102
3,040,323
3,041,611
3,041,612
3,042,923
3,047,866
3,047,867
3,047,868
3,047,869
3,051,954
3,052,885
3,054,108
3,055,006
3,056,136
3,056,962
3,058,112
3,058,113
3,059,239
3,060,431
3,060,432
3,060,433
3,061,832
3,063,052
3,063,053
3,064,259
3,066,298
3,067,422
74: 3,068,479
3,068,480
3,068,481
3,069,681
3,070,800
76: 3,031,250
77: 3,035,267
78: 3,048,848
79: 3,034,125
85: 3,019,074
87: 3,039,103
90: 3,041,613
100: 3,039,104
101: 3,015,534
102: 3,034,126
105: 3,039,105
107: 3,017,235
3,030,169
3,032,766
3,060,434
3,069,682
108: 3,046,555
109: 3,015,535
3,020,119
3,024,079
3,034,127
3,045,241
3,064,260
3,066,299
3,066,300
110: 3,025,125
3,027,219
3,047,870
3,047,871
3,051,955
112: 3,065,468
113: 3,039,106
117: 3,054,109
136: 3,015,536
137: 3,064,261
138: 3,066,301
139: 3,018,153
3,031,251
3,047,872
140: 3,026,165
3,046,556
141: 3,051,956

1962
CLASSIFICATION OF DESIGNS

Class D1

3: 192, 845
193, 236
194, 019
12: 192, 156
192, 342
192, 407
193, 130
193, 165
193, 261
193, 262
193, 380
193, 758
193, 829
193, 968
194, 090
194, 142

Class D2

3: 192, 157
192, 343
192, 344
192, 594
192, 846
192, 909
193, 083
193, 084
193, 263
193, 418
193, 759
193, 830
193, 831
193, 886
194, 091
194, 175

Class D3

4: 192, 135
192, 136
192, 137
192, 204
8: 193, 760
10: 193, 166
193, 926
193, 969
11: 192, 992
13: 192, 070
192, 071
192, 158
192, 206
192, 463
193, 381
193, 761
16: 193, 649
194, 143
194, 176
17: 193, 131
193, 324
193, 419
19: 192, 207
193, 650
193, 701
194, 257
26: 192, 022
193, 132
193, 497
193, 498
194, 020
32: 192, 408
192, 954

Class D4

2: 192, 493
193, 167
193, 168
193, 464
193, 605
194, 021
194, 258
3: 192, 004
192, 314
192, 677
3: 192, 678
192, 722
192, 782
192, 993
193, 085
193, 133
193, 499
193, 500
193, 606
193, 607
193, 651
193, 702
193, 762
193, 763
193, 764
193, 970
194, 022
194, 092
194, 177
194, 259
4: 192, 955
193, 237
194, 178
5: 192, 494
192, 783
193, 169
193, 325
193, 420
193, 765

Class D5

2: 193, 293
193, 832
4: 192, 495
192, 679
192, 910
193, 086
193, 833
194, 023
5: 192, 072
192, 847
193, 051
193, 326

Class D6

2: 193, 703

Class D7

2: 192, 680
5: 192, 023
192, 159
192, 208
192, 285
192, 409
192, 553
192, 784
192, 956
192, 957
192, 994
193, 501
194, 204
6: 192, 595
7: 192, 209
192, 210
192, 315
193, 087
193, 465
193, 652
193, 766
193, 971
194, 024
194, 205

Class D8

1: 193, 170
193, 541
193, 542
193, 543

Class D9

2: 192, 005
192, 024
2: 192, 025
192, 160
192, 239
192, 316
192, 345
192, 346
192, 347
192, 554
192, 555
192, 785
192, 848
192, 911
193, 171
193, 172
193, 173
193, 174
193, 175
193, 294
193, 382
193, 383
193, 384
193, 608
193, 653
193, 767
193, 834
193, 972
194, 025
194, 093
194, 231
6: 192, 681
193, 088
193, 089
193, 090
193, 835
193, 887
194, 232

Class D10

6: 192, 596
192, 627
192, 786
193, 421
193, 466
193, 467
7: 192, 410
192, 849
193, 836
8: 192, 110
192, 111
192, 161
192, 211
192, 240
192, 348
192, 349
192, 350
192, 496
192, 556
192, 787
192, 958
192, 959
193, 052
193, 134
193, 176
193, 177
193, 178
193, 179
193, 385
193, 502
193, 544
193, 545
193, 546
193, 768
9: 193, 091
10: 193, 468
194, 260

Class D11

1: 192, 411
192, 628

Class D12

2: 192, 412
192, 850
2: 193, 609
193, 654
193, 769
193, 837

Class D13

1: 192, 026
192, 073
192, 074
192, 112
192, 162
192, 163
192, 212
192, 286
192, 413
192, 414
192, 464
192, 597
192, 629
192, 630
192, 631
192, 632
192, 682
192, 723
192, 724
192, 725
192, 788
192, 789
192, 790
193, 053
193, 054
193, 092
193, 238
193, 239
193, 327
193, 328
193, 329
193, 386
193, 422
193, 469
193, 470
193, 471
193, 547
193, 548
193, 610
193, 704
193, 770
193, 927
193, 928
193, 973
194, 026
194, 094
194, 095
194, 096
194, 097
194, 098
194, 144
194, 206
194, 233
6: 192, 113
193, 055
7: 193, 888
194, 207
194, 261

Class D14

2: 193, 974
3: 192, 027
192, 114
192, 138
192, 139
192, 140
192, 164
192, 317
192, 318
192, 415
192, 497
192, 498
192, 557
192, 634
192, 683
192, 726
192, 727
3: 192, 791
192, 792
192, 793
192, 794
192, 795
192, 851
192, 912
192, 995
192, 996
192, 997
193, 135
193, 180
193, 181
193, 240
193, 294
193, 330
193, 387
193, 388
193, 423
193, 424
193, 472
193, 473
193, 503
193, 504
193, 505
193, 549
193, 550
193, 551
193, 611
193, 705
193, 706
193, 771
193, 772
193, 773
193, 838
193, 975
194, 027
194, 028
194, 029
194, 145
194, 179
194, 262
6: 192, 028
192, 213
192, 214
192, 241
192, 351
192, 416
192, 465
192, 633
192, 684
192, 728
192, 796
192, 852
192, 853
192, 998
193, 331
193, 332
193, 389
193, 425
193, 474
193, 774
193, 839
193, 976
193, 977
194, 030
194, 180
194, 181
14: 193, 475
194, 146
18: 192, 242
193, 333
193, 655
193, 656
193, 707
25: 192, 352
27: 192, 499
192, 729
193, 136
193, 612
193, 840
194, 182
30: 192, 141
192, 142
192, 287
192, 319
30: 192, 417
192, 418
192, 500
192, 730
192, 797
192, 798
192, 854
193, 137
193, 295
193, 334
193, 335
193, 390
193, 476
193, 841
193, 978
193, 979
194, 099
194, 100
194, 101
194, 183
194, 208

Class D15

1: 192, 006
192, 029
192, 075
192, 115
192, 143
192, 215
192, 216
192, 217
192, 330
192, 353
192, 419
192, 635
192, 731
192, 732
192, 799
192, 800
192, 999
193, 056
193, 057
193, 058
193, 093
193, 094
193, 182
193, 241
193, 265
193, 336
193, 337
193, 338
193, 339
193, 340
193, 506
193, 507
193, 508
193, 613
193, 614
193, 708
193, 775
193, 842
193, 843
193, 844
193, 845
193, 889
193, 980
194, 031
194, 234
3: 192, 321
192, 501
192, 502
192, 558
193, 183
193, 296
6: 192, 598
8: 192, 165
192, 218
192, 243
192, 244
192, 245
192, 420
192, 421
192, 559
193, 000
193, 001
8: 193, 657
193, 846
193, 847
193, 890
194, 032
11: 192, 855
193, 913
193, 138
193, 615
193, 929

Class D16

1: 192, 503
2: 192, 354
192, 422
192, 560
192, 914
193, 139
193, 341
193, 509
193, 891
193, 930
193, 981
194, 033
194, 102

Class D17

3: 193, 095
193, 140
193, 477
6: 192, 076
193, 510
7: 194, 147
8: 193, 297
194, 103
12: 193, 982
14: 192, 856

Class D18

2: 192, 077
192, 166
192, 219
192, 288
192, 355
192, 561
192, 733
192, 734
192, 857
193, 002
193, 342
193, 391
193, 392
193, 478
193, 552
193, 658
193, 892
193, 983
193, 984
194, 014
194, 148
194, 184
194, 209

Class D19

1: 192, 078
193, 184
193, 479
2: 192, 030

Class D20

2: 192, 504
192, 915
193, 298
193, 709
193, 776
193, 985
193, 986
194, 034
4: 192, 685
193, 777
193, 987
194, 035

Class D22

2: 192,079
192,080
192,289
193,426
193,427
193,988
3: 192,081
192,220
192,423
192,562
192,858
192,916
192,960
192,961
193,266
193,299
193,778
194,235
4: 194,185
5: 192,424
193,848

Class D23

1: 192,686
192,801
193,242
193,300
193,779

Class D24

1: 192,007
192,246
192,356
192,357
192,917
193,428

Class D25

1: 192,221
192,466
193,343
193,480
193,659

Class D26

1: 192,358
192,467
193,003
193,481
193,511
193,710
193,780
193,781
193,849
193,850
193,931
194,105
194,149
194,210
5: 192,116
192,359
192,425
192,563
192,802
192,803
192,918
192,919
192,920
193,004
193,185
193,301
193,429
193,430
193,512
193,513
193,616
193,660
193,661
193,711
193,712
193,782
193,783
193,932
193,989
193,990
193,991
193,992
193,993
194,150
194,186
194,211
194,263
6: 193,713
7: 192,564
8: 192,167
192,636
193,617
194,036
10: 193,851
193,933
13: 192,008
192,322
192,426
192,468
192,804
192,805
193,005
193,141
193,186
193,553
193,618
193,619
193,784
193,852
193,853
193,893
194,106
14: 192,117
192,118
192,247
192,290
192,360
192,361
192,362
192,505
192,637
192,687
192,806
192,859
192,860
192,921
193,006
193,007
193,142
193,187
193,267
193,268
193,269
193,270
193,271
193,302
193,344
193,345
193,393
193,431
193,514
193,554
193,662
193,663
193,714
193,715
193,785
193,854
193,894
193,895
193,934
193,935
193,936
194,107
194,151
194,152
194,236
194,264
15: 192,427
192,506
192,565
193,664
193,896

Class D28

1: 192,082
192,507
193,059
193,482
194,108

Class D29

1: 192,861
194,265
194,266
17: 192,418
19: 194,212
20: 193,143
193,665
23: 192,031
192,168
192,291
192,323
192,469
192,599
193,303
193,304
193,520
193,666
193,786
193,855
193,994
193,995
28: 192,363
193,188

Class D30

1: 192,032
192,119
192,248
192,364
192,508
192,807
192,922
192,923
192,924
193,483
193,555
193,556
193,557
193,621
4: 192,205

Class D31

2: 192,925
193,189
193,558
193,787
194,109
3: 192,429
192,470
192,509
192,600
192,601
4: 192,222
192,223
192,249
192,430
192,510
192,511
192,602
192,688
192,735
192,736
192,737
192,862
192,962
192,963
193,008
193,144
193,190
193,346
193,432
193,515
193,667
193,788
193,789
193,856
194,153

Class D32

1: 192,863

Class D33

2: 193,243
3: 192,083
192,120
192,324
192,325
192,926
193,191
193,668
193,669
193,716
7: 192,009
192,326
192,864
193,060
193,516
193,517
193,518
8: 193,272
193,394
193,433
193,670
193,857
193,937
194,267
10: 192,566
11: 192,327
193,559
193,858
194,213
12: 193,305
14: 192,010
192,084
192,512
192,567
192,603
192,689
192,738
192,809
192,964
193,192
193,193
193,244
14: 193,347
193,348
193,790
193,937
194,038
18: 192,169
19: 192,085
192,121
192,568
193,009
193,194
193,717
193,718
194,039

Class D34

2: 192,144
192,145
192,146
192,170
192,250
192,251
193,560
193,561
193,562
193,563
193,622
193,719
193,720
193,721
193,722
193,723
193,724
3: 192,086
4: 193,061
193,395
193,396
193,397
193,398
193,725
5: 192,011
192,012
192,013
192,033
192,034
192,087
192,147
192,148
192,224
192,252
192,292
192,293
192,294
192,365
192,366
192,367
192,431
192,432
192,433
192,471
192,472
192,473
192,513
192,514
192,515
192,516
192,638
192,690
192,739
192,740
192,810
192,865
192,927
192,965
192,966
193,010
193,011
193,096
193,097
193,098
193,145
193,146
193,147
193,148
193,195
193,196
193,273
193,349
193,399
193,400
193,401
193,434
193,435
193,436
193,437
193,564
193,726
193,727
193,728
193,791
193,792
193,859
5: 193,860
193,861
193,862
193,897
193,898
193,938
193,939
193,940
193,941
194,040
194,041
194,042
194,044
194,045
194,046
194,110
194,111
194,187
194,214
194,215
194,237
194,238
194,239
194,268
11: 193,402
193,671
193,793
193,996
13: 193,623
14: 192,517
192,866
192,928
192,929
193,149
194,047
15: 192,088
192,089
192,149
192,171
192,253
192,254
192,255
192,328
192,368
192,369
192,474
192,518
192,569
192,639
192,691
192,867
192,930
192,931
192,932
193,012
193,013
193,014
193,015
193,099
193,100
193,101
193,150
193,151
193,245
193,350
193,484
193,565
193,566
193,567
193,624
193,625
193,672
193,673
193,729
193,997
194,048
194,154
194,216
194,269
194,270

Class D35

1: 192,519
2: 192,520
192,868
193,274
193,863
193,998
194,049
194,188
3: 192,695
192,741
192,811
193,246
193,438
193,485
193,674
193,864
193,942
193,999
194,000
194,050
5: 194,043

Class D36

8: 192,014
192,604
11: 193,403

Class D37

1: 192,090
192,434
193,102
193,152
193,519

Class D38

2: 193,351

Class D39

1: 192,521
193,016
193,439
193,486

Class D40

1: 192,091
192,172
192,295
192,370
192,371
192,372
192,373
192,475
192,570
192,605
192,869
193,062
193,153
193,197
193,626
193,627
193,628
194,051
194,112

Class D41

1: 192,092
192,522
193,306
193,520
193,943

Class D42

7: 192,035
192,173
192,523
192,524
192,640
192,641
193,017
193,198
193,307
193,521
193,568
193,569
193,675
194,001
8: 192,093
193,570
194,052

Class D44

1: 192,225
192,693
192,808
192,812
193,063
193,676
193,944
194,271
4: 192,256
193,440
193,571
194,113
5: 192,476
192,870
192,871
6: 192,742
192,813
193,199
193,794
194,272
194,273
194,274
194,275
194,276
9: 192,174
192,296
9: 192,435
192,923
192,967
193,154
193,522
194,053
10: 192,036
192,226
192,227
192,525
192,694
192,814
192,872
193,103
193,308
193,487
193,730
193,795
193,796
194,114
194,155
15: 192,015
192,037
192,175
192,176
192,297
192,329
192,374
192,375
192,436
192,437
192,526
192,527
192,606
192,743
192,873
192,874
192,968
193,104
193,200
193,201
193,309
193,572
193,797
194,054
194,115
194,277
18: 194,055
194,217
19: 194,278
21: 192,038
192,094
192,438
192,528
192,642
192,815
192,875
192,934
192,969
193,064
193,798
194,116
22: 192,376
194,156
25: 192,016
192,257
26: 192,177
192,529
192,530
192,571
193,523
194,117
194,279
29: 192,017
192,018
192,039
192,095
192,228
192,229
192,230
192,258
192,298
192,299
192,330
192,377
192,378
192,477
192,531
192,643
192,644
192,970
193,018
193,202
193,441
193,524
193,629
193,899
193,945
194,056
194,118
194,119
194,157
194,280

Class D45

1: 192,096
193,865
4: 192,122
192,123
192,971
192,972
193,019
193,065
193,203
193,352
193,442
193,443
193,444
193,445
193,525
193,799
193,900
193,901
193,902
193,903
194,057
10: 192,379
192,380
193,020
193,021
193,404
194,058
16: 193,105

Class D46

1: 193,866

Class D47

2: 192,973
194,218
6: 192,097
193,016
193,800
7: 192,439
192,572
192,573
192,695
192,816
193,801
194,002
194,219
194,281

Class D48

2: 192,259
192,331
193,526
193,630
194,240
4: 192,876
193,107
193,275
193,353
15: 193,573
16: 192,877
193,354
193,574
193,631
193,867
194,059
20: 192,010
192,440
192,645
192,744
192,935
193,155
193,276
193,277
193,495
193,632
193,868
193,904
194,060
194,061
194,062
23: 192,124
192,607
192,608
192,646
192,745
192,878
193,022
193,575
193,802
194,063
24: 192,098
192,300
193,204
193,205
194,158
27: 192,647
193,406
193,869
31: 192,041
31: 192,125
192,260
192,381
192,441
192,574
193,206
193,407
32: 192,042
192,043
192,044
192,045
192,046
192,099
192,478
192,479
192,532
192,533
192,648
192,746
193,207
193,633
193,803
193,804
194,120

Class D49

1: 192,047
192,178
192,261
192,747
192,936
193,066
193,067
193,082
193,108
193,109
193,208
193,408
193,488
193,527
193,677
193,805
194,121
6: 192,609
193,278

Class D50

3: 192,150
192,179
5: 192,442
6: 193,528
194,064
194,122
194,159
194,189
7: 193,247
193,806
193,905
194,160
194,282

Class D51

1: 192,231
193,355

Class D52

1: 192,048
192,382
193,579
193,678
193,679
2: 192,100
192,443
192,610
192,696
192,697
192,817
192,818
192,819
193,110
193,209
193,356
193,577
193,870
193,946
3: 192,151
192,180
192,301
192,937
193,529
194,065
194,123
194,283
4: 192,611
192,938
193,248
193,279
194,241
6: 192,181
192,262
6: 192,302
192,383
192,384
192,444
192,534
192,575
192,612
192,698
192,699
192,748
192,749
192,820
192,879
192,939
192,974
193,023
193,111
193,357
193,409
193,410
193,489
193,530
193,634
193,680
193,681
193,731
193,732
193,871
194,161
194,190
194,191
194,192
194,193
194,242
7: 192,152
192,232
192,233
192,480
192,821
193,906
194,124
10: 192,649
192,975
193,024
193,682

Class D54

1: 192,613
192,650
192,700
193,807
2: 192,332
192,481
192,651
192,652
192,976
193,156
193,157
193,210
193,211
193,249
193,250
193,358
193,578
193,685
193,683
193,684
193,808
193,907
193,947
194,125
194,162
6: 192,263
194,220
8: 193,112
9: 193,809
10: 192,445
193,068
11: 192,182
192,183
192,184
192,185
192,186
192,385
193,579
12: 192,049
192,050
192,051
192,187
192,446
192,576
192,577
192,701
192,702
192,703
193,733
193,734
193,735
193,810
193,948
193,949
194,126
194,163
13: 192,101
192,188
192,303
192,333
192,447
192,448
192,449
192,482
192,750
192,940
192,977
193,069
193,359
193,580
193,685
193,686
193,736
193,808
193,809
194,003
194,127
14: 192,614
192,880
193,025
193,212
16: 192,126
192,653

Class D55

1: 192,019
192,102
192,127
192,264
192,265
192,386
192,387
192,704
192,751
192,753
192,822
192,881
193,026
193,027
193,213
193,310
194,128
194,194

Class D56

1: 192,578
192,705
193,113
193,360
193,581
194,066
194,067
2: 192,450
192,882
4: 192,483
192,484
192,753
193,950
194,195
9: 192,128

Class D57

1: 192,020
192,153
192,266
192,615
192,616
192,617
192,706
192,823
192,824
192,825
192,883
192,884
192,885
193,028
193,029
193,114
193,214
193,251
193,252
193,490
193,582
193,737
193,872
193,873
194,004
194,129
194,221
194,284

Class D58

2: 192,267
192,618
192,707
192,941
193,531
2: 193,532
193,811
193,951
194,130
194,196
194,243
4: 192,754
193,215
193,909
193,952
5: 192,189
192,268
192,269
192,451
192,535
192,536
192,654
192,655
192,708
192,886
192,978
193,115
193,116
193,216
193,280
193,361
193,446
193,687
193,874
193,910
193,953
194,068
194,069
194,131
194,164
194,244
194,285
6: 192,052
192,190
192,452
192,537
192,579
192,709
192,826
192,942
192,979
192,980
193,030
193,217
193,218
193,281
193,636
193,738
193,739
193,812
193,911
194,070
194,071
194,132
194,165
194,245
194,286
6.5: 192,103
8: 192,334
192,453
192,580
192,755
192,827
192,887
193,031
193,032
193,033
193,117
193,533
193,637
193,638
193,688
194,197
9: 192,388
192,389
192,390
192,391
193,689
193,875
10: 192,710
11: 192,191
192,485
193,118
193,219
193,583
193,690
194,287
12: 192,053
192,270
192,619
192,620
192,621
192,656
193,034
193,220
194,198
194,246
12.6: 192,888
193,070
12.6: 193,253
193,447
193,691
193,740
194,166
194,167
194,288
12.7: 192,305
13: 192,094
192,129
192,271
193,071
193,119
193,448
193,639
193,876
193,912
194,072
194,289
16: 193,282
17: 192,304
192,454
192,486
192,538
192,581
192,657
192,893
193,072
193,120
193,221
193,449
193,534
193,584
193,585
193,586
193,640
193,877
193,954
193,955
194,073
194,074
194,075
194,222
194,247
25: 192,943
192,944
193,035
193,158
193,311
193,312
193,382
193,491
193,741
193,913
194,290
26: 192,154
192,192
192,335
192,392
192,455
192,456
192,539
192,658
192,660
192,756
192,757
192,758
192,889
192,890
192,891
192,892
192,945
193,121
193,222
193,223
193,254
193,313
193,314
193,363
193,535
193,587
193,588
193,589
193,641
193,742
193,956
193,957
194,076
194,168
194,199
194,291

Class D59

1: 193,813
2: 193,224

Class D61

1: 192,055
192,104
192,105
192,234
1: 192,336
192,393
192,828
192,981
193,036
193,283
193,315
193,316
193,364
193,411
193,450
193,590
193,591
193,592
193,692
193,693
193,814
193,878
193,914
194,005
194,077
194,078
194,079
194,080
194,133
194,134
194,223
194,248
194,249

Class D62

2: 192,622
193,037
193,284
193,365
194,169
3: 192,272
193,412
193,642
4: 192,894
192,946
193,159
193,160
193,643

Class D64

11: 192,056
192,057
192,193
192,194
192,273
192,306
192,394
192,395
192,396
192,457
192,659
192,661
192,662
192,759
192,829
193,038
193,225
193,366
193,743
193,815
193,816
193,879
193,915
193,916
193,917
194,292
12: 192,058
192,760
192,761
192,762
192,763
192,764
192,765
192,766
192,767
192,768
192,769
193,451
194,170

Class D65

1: 192,059
192,060
192,061
192,062
192,235
192,830
193,226
193,285
193,292
194,250
194,251

Class D66

1: 192,063
193,227
193,286
193,694
2: 193,367

Class D67

2: 193,413
3: 193,039
193,228
193,593
4: 192,711
193,287

Class D70

1: 192,712
193,040
2: 193,695
193,696
194,252

Class D71

1: 192,064
192,065
192,106
192,130
192,195
192,196
192,197
192,274
192,307
192,337
192,397
192,458
192,487
192,540
192,541
192,582
192,583
192,663
192,664
192,665
192,666
192,713
192,714
192,715
192,770
192,771
192,772
192,831
192,832
192,895
192,947
192,948
192,949
192,982
193,041
193,042
193,073
193,074
193,075
193,076
193,077
193,122
193,123
1: 193,161
193,229
193,255
193,288
193,289
193,290
193,317
193,368
193,369
193,370
193,414
193,452
193,453
193,454
193,455
193,492
193,536
193,594
193,595
193,644
193,697
193,744
193,817
193,880
193,958
194,006
194,171

Class D72

1: 192,275
192,488
192,833
192,950
193,596
193,597
193,818
193,881
193,959
193,960
194,293

Class D73

1: 192,131
192,834

Class D74

1: 192,276
192,489
192,542
192,543
192,544
192,667
192,716
192,835
192,836
193,230
193,231
193,371
193,372
193,415
193,456
193,819
193,918
194,007
194,008
194,172
2: 192,308
2: 194,294
5: 193,745
9: 192,277
192,278
192,584
194,081
10: 192,459
192,668
17: 192,309
192,310
193,373
194,295
194,296
21: 192,460
192,983
193,457
24: 192,984

Class D77

1: 192,837

Class D78

1: 192,398
192,896
192,897
192,951
194,297
194,298

Class D79

2: 192,773
193,078

Class D80

1: 192,399
2: 192,490
192,545
192,898
193,079
193,458
193,820
5: 193,043
8: 192,279
192,280
192,281
192,585
192,838
193,162
193,256
193,257
193,318
193,598
193,746
193,919
194,253
9: 192,546
192,547
192,623
192,774
192,899
193,124
193,125
193,258
193,319
193,374
9: 193,459
193,645
193,961
194,082
10: 192,985
193,044
193,045
193,747
193,748
193,749
193,821
194,224
11: 192,198
192,236
192,311
192,400
192,669
192,670
192,839
193,750
194,083
194,084
194,135
194,299
194,300

Class D81

1: 192,548
192,586
2: 192,401
194,254
4: 192,624
192,717
193,822
7: 192,491
193,537
193,823
194,009
10: 192,066
192,132
192,199
192,200
192,312
192,338
192,402
192,549
192,550
192,587
192,588
192,625
192,671
192,775
192,776
192,840
192,900
192,952
193,046
193,047
193,163
193,259
193,320
193,588
193,599
193,646
193,751
193,920
194,010
194,085
10: 194,086
194,136
194,200
194,301
21: 193,962
25: 193,232
193,698
193,963
194,137

Class D83

1: 192,107
192,403
192,589
192,672
192,718
192,777
192,841
192,842
192,843
192,901
192,953
192,986
192,987
193,048
193,321
193,322
193,460
193,824
193,921
193,964
193,965
193,966
194,087
194,138
194,255
12: 193,600
194,173

Class D85

2: 192,719
192,778
192,844
192,902
193,493
193,752
6: 193,753
8: 194,088
194,174

Class D86

8: 192,201
192,461
10: 192,108
192,237
192,282
192,462
192,492
192,590
192,626
192,673
192,903
192,904
193,126
193,233
193,375
10: 193,647
194,201
194,225

Class D87

2: 193,234
193,825
193,882
3: 192,067
192,674
192,779
192,905
192,988
194,226
194,227
5: 192,155
192,238
192,551
192,591
193,127
193,128
193,601
193,967
194,139
194,140

Class D88

3: 192,109
193,235

Class D89

1: 192,675
193,260
193,376
193,461
193,754
193,883

Class D90

1: 192,552
3: 193,049
193,377
5: 192,339
8: 193,462
20: 192,283
193,129
193,378
193,379
193,416
193,463
193,539
193,602
193,699
194,011
194,012
194,202
194,203

Class D91

1: 192,133
192,284
192,340
192,341
193,080
1: 193,494
193,755
193,884
194,013
194,014
2: 192,202
192,404
3: 192,405
192,592
192,906
192,907
192,989
193,323
193,417
193,603
193,604
193,648
193,756
193,757
193,826
193,827
193,885
193,922
193,923
193,924
194,015
194,089
194,141
194,228
194,229
4: 192,406

Class D92

1: 192,021
192,203
192,313
192,720
192,780
192,908
192,990
192,991
193,081
193,925
194,302
194,303
4: 193,050
17: 192,676
21: 193,291
26: 192,593
192,781
193,495
194,016
194,017
194,018
194,230
194,256

Class D93

3: 192,134
193,700
193,828
4: 192,068
192,069
192,721
193,164
193,496
193,540

LIST OF PATENT, DESIGN, PLANT PATENT, AND REISSUE NUMBERS APPEARING IN THE OFFICIAL GAZETTE FOR 1962

Issue of	Vol.	No.	First Number in Issue			
			Patents	Designs	Plant Patents	Reissues
Jan. 2	774	1	3,015,103	192,004	2,117	25,107
Jan. 9		2	3,015,824	192,022	2,120	25,110
Jan. 16		3	3,016,538	192,070	2,121	25,116
Jan. 23		4	3,017,634	192,110	2,123	None
Jan. 30		5	3,018,481	192,135	2,124	25,117
Feb. 6	775	1	3,019,440	192,156	None	25,120
Feb. 13		2	3,020,551	192,204	2,130	25,121
Feb. 20		3	3,021,525	192,239	2,131	25,124
Feb. 27		4	3,022,508	192,285	2,132	25,128
Mar. 6	776	1	3,023,412	192,314	None	25,131
Mar. 13		2	3,024,464	192,342	2,133	25,133
Mar. 20		3	3,025,525	192,407	None	25,139
Mar. 27		4	3,026,518	192,463	2,134	25,141
Apr. 3	777	1	3,027,558	192,493	None	25,148
Apr. 10		2	3,028,601	192,553	None	25,154
Apr. 17		3	3,029,434	192,594	2,135	25,158
Apr. 24		4	3,030,624	192,627	2,139	25,163
May 1	778	1	3,031,669	192,677	2,143	25,164
May 8		2	3,032,767	192,722	None	25,166
May 15		3	3,034,128	192,782	2,146	25,168
May 22		4	3,035,268	192,845	2,147	None
May 29		5	3,036,306	192,909	2,149	25,173
June 5	779	1	3,037,206	192,954	None	25,180
June 12		2	3,038,159	192,992	2,152	25,183
June 19		3	3,039,108	193,051	None	25,185
June 26		4	3,040,324	193,083	None	25,191
July 3	780	1	3,041,614	193,130	None	25,193
July 10		2	3,042,924	193,165	2,155	25,197
July 17		3	3,044,070	193,236	2,156	25,198
July 24		4	3,045,242	193,261	2,157	25,203
July 31		5	3,046,557	193,293	2,159	25,210
Aug. 7	781	1	3,047,873	193,324	2,160	25,215
Aug. 14		2	3,048,849	193,380	2,162	25,222
Aug. 21		3	3,049,712	193,418	2,167	25,227
Aug. 28		4	3,050,732	193,464	None	25,232
Sept. 4	782	1	3,051,957	193,497	2,168	25,234
Sept. 11		2	3,052,886	193,541	None	25,237
Sept. 18		3	3,054,110	193,605	2,171	None
Sept. 25		4	3,055,007	193,649	2,174	25,244
Oct. 2	783	1	3,056,137	193,701	2,178	25,248
Oct. 9		2	3,056,963	193,758	2,180	25,251
Oct. 16		3	3,058,114	193,829	2,183	25,259
Oct. 23		4	3,059,240	193,886	2,185	25,267
Oct. 30		5	3,060,435	193,926	2,188	25,273
Nov. 6	784	1	3,061,833	193,968	2,189	25,280
Nov. 13		2	3,063,054	194,019	None	25,285
Nov. 20		3	3,064,262	194,090	2,192	25,288
Nov. 27		4	3,065,469	194,142	2,197	None
Dec. 4	785	1	3,066,302	194,175	2,198	25,290
Dec. 11		2	3,067,423	194,204	None	25,295
Dec. 18		3	3,068,482	194,231	2,201	25,302
Dec. 25		4	3,069,683	194,257	2,204	25,304
Last number of 1962			3,070,800	194,303	2,207	25,308

1962

LIST OF DISCLAIMERS AND DEDICATIONS

Adams, Robert T., Short Hills, and Alexander Horvath Clifton, N.J., and Benjamin Parzen, Woodside, N.Y. Disclaimer filed by the assignee, International Telephone and Telegraph Corporation. No. 2,797,387; disclaimer filed Apr. 9, 1962; v. 778; p. 1037.

Albert, Eugene F., Turtle Creek, Pa., and Albert W. Kimball, Buffalo, N.Y. Disclaimer filed by the assignee, Westinghouse Electric Corporation. No. 2,523,085; disclaimer filed Dec. 20, 1961; v. 774; p. 967.

Arce, Lee, William K. Volgel, and Milton C. Vogel, Arcadia, Calif. Disclaimer filed by the assignee, Lee-Mart Mfg. Co. No. 2,820,672; disclaimer filed Aug. 7, 1961; v. 782; p. 273.

Atkinson, Ralph B., Beverly Hills, and Steven G. Ellis, Van Nuys, Calif. Disclaimer filed by the assignee, Ralph B. Atkinson, No. 2,806,904; disclaimer filed June 6, 1962; v. 780; p. 1.

Arzapalo, Richard A., West Orange, N.J. Disclaimer filed by the inventor and the assignee, McGraw-Edison Company. No. 3,005,074; disclaimer filed Sept. 19, 1962; v. 783; p. 897.

Beaudette, Charles G., Jamaica Plain, Mass. Disclaimer filed by the assignee, Computer Control Company, Inc., a corporation of Delaware. No. 3,041,599; disclaimer filed Sept. 21, 1962; v. 783; p. 243.

Bell, Henry G., High Point, N.C. Dedication filed by the assignee, Scott & Williams, Inc. No. 2,918,679; dedication filed Sept. 25, 1962; v. 783; p. 1237.

Bigelow, John F., Riverside, Ill. Disclaimer filed by the inventor and the assignee, Raytheon Company. No. 2,790,-108; disclaimer filed Jan. 15, 1962; v. 776; p. 4.

Boettcher, Stephen A., Evanston, and Jack C. Page, Palatine, Ill. Disclaimer filed by the assignee, Speedlap Corporation. No. 2,968,135; disclaimer filed Jan. 22, 1962; v. 775; p. 894.

Bolesky, John D., Mansfield, Ohio. Disclaimer filed by the assignee, Therm-O-Disc, Incorporated. No. 2,891,128; disclaimer filed Oct. 16, 1962; v. 784; p. 719.

Boni, Frank, Jr., Massillon, Ohio. Disclaimer filed by the assignee, Baldwin-Lima-Hamilton Corporation. No. 2,936,-159; disclaimer filed Oct. 3, 1962; v. 784; p. 2.

Braun, Adolph F., Pittsford, N.Y. Disclaimer filed by the assignee, General Motors Corporation. No. 2,929,613; disclaimer filed May 17, 1962; v. 779; p. 555.

Brown, John D., New Rochelle, N.Y. Disclaimer filed by the assignee, Inc. No. 2,914,591; disclaimer filed Aug. 30, 1962; v. 783; p. 576.

Brown, Merle M., Princeton, Ky. Disclaimer filed by the assignee, Marvel Specialty Company, Incorporated. No. 2,570,637; disclaimer filed Sept. 11, 1962; v. 783; p. 1237.

Burks, George Kenneth, Bethlehem, Pa. Disclaimer filed by the assignee, Baxter Laboratories, Inc. No. 2,907,325; disclaimer filed Feb. 7, 1962; v. 776; p. 902.

Chase, Fay H., Short Hills, N.J. Disclaimer filed by the assignee, Bell Telephone Laboratories, Incorporated. No. 2,731,549; disclaimer filed Jan. 26, 1962; v. 776; p. 4.

Chase, Fay H., Short Hills, N.J. Disclaimer filed by the assignee, Bell Telephone Laboratories, Incorporated. No. 2,904,742; disclaimer filed June 6, 1962; v. 782; p. 887.

Clark, James D'A, and Arthur L. Mottet, Longview, Wash. Disclaimer filed by the assignee, Consolidated Board Development Company. No. 2,773,789; disclaimer filed June 27, 1961; v. 774; p. 207.

Cook, Walter L., Seattle, Wash. Disclaimer filed by the assignee, The Boeing Company. No. 2,909,651; disclaimer filed Mar. 19, 1962; v. 778; p. 1037.

Cuthbertson, George R., Ridgewood, N.J., and Edward B. Ericson, Grosse Pointe Woods, Mich. Disclaimer filed by the assignee, United States Rubber Company. No. 2,789,616; disclaimer filed Oct. 18, 1961; v. 774; p. 415.

Dahlman, Frederick A., and Donald J. Tingley, Corning, N.Y. Dedication filed by the assignee, Corning Glass Works. No. 2,685,765; dedication filed Sept. 6, 1962; v. 783, p. 575.

Dieter, Norman H., Jr., Pleasantville, N.Y. Disclaimer filed by the inventor and the assignee, Sonotone Corporation. No. 2,934,610; disclaimer filed Oct. 10, 1962; v. 784; p. 1102.

Dobratz, Elmer H., Pittsburgh, Pa. Disclaimer filed by the assignee, Koppers Company, Inc. No. 2,892,738; disclaimer filed Oct. 4, 1962; v. 784; p. 362.

Dulberg, Murray, New York, N.Y. Disclaimer filed by the inventor. No. 2,695,028; disclaimer filed Jan. 4, 1962; v. 775; p. 317.

Elam, Edward U., and Robert H. Hasek, Kingsport, Tenn. Disclaimer filed by the inventors, and the assignee, Eastman Kodak Company, assenting. No. 2,960,541; disclaimer filed Nov. 7, 1962; v. 785; p. 1113.

Finkelstein, Morris B., Collingswood, and Burton R. Clay, Woodbury, N.J. Disclaimer filed by the assignee, Radio Corporation of America. No. 2,795,717; disclaimer filed Aug. 8, 1962; v. 782; p. 628.

Fletcher, Peter S., Delray Beach, Fla. Disclaimer filed by the assignee, Anton Lorenz. No. 3,039,815; disclaimer filed Oct. 17, 1962; v. 784; p. 719.

Förster, Hans J. M., Harthausen a. F., Kreis Esslingen am Neckar, Germany. Disclaimer filed by the assignee, Daimler-Benz Aktiengesellschaft. No. 2,807,968; disclaimer filed Apr. 25, 1962; v. 779; p. 273.

Fritz, Karl Heinrich, Hagen, Westphalia, Germany. Disclaimer filed by the inventor. No. 2,899,192; disclaimer filed Apr. 13, 1962; v. 778; p. 1326.

Gardiner, Emmett G., Erie, Pa. Dedication filed by the assignee, General Electric Company. No. 3,042,428; dedication filed Oct. 22, 1962; v. 784; p. 1102.

Gerlach, Karl Albrecht, Dusseldorf, and Kurt Wittig, Lubeck-Kucknitz, Germany. Disclaimer filed by the assignee, Clevite Corporation. No. 2,946,924; disclaimer filed Nov. 1, 1962; v. 785; p. 359.

Gilson, Paul R., West Covina, Calif. Disclaimer filed by the assignee, Burroughs Corporation. No. 2,952,415; disclaimer filed Oct. 11, 1962; v. 784; p. 1102.

Gruber, Warren M., Horsham, Pa. Disclaimer filed by the inventor and the assignee, Tinius Olsen Testing Machine Company. No. 2,909,948; disclaimer filed Sept. 25, 1962; v. 783; p. 1237.

Hack, Nathan, Santo Monica, Calif. Disclaimer filed by the assignee, Ripple Sole Corporation. No. 2,627,676; disclaimer filed May 28, 1962; v. 780; p. 1.

Hamilton, Douglas J., Santa Monica, Calif. Disclaimer filed by the assignee, Hughes Aircraft Company. No. 2,868,897; disclaimer filed Dec. 11, 1961; v. 774; p. 725.

Hankus, Chester P., Chicago, Ill. Disclaimer filed by the inventor and assignees, Peter Van Beek, Theodore Hankus and Kenneth T. Snow. No. 2,889,650; disclaimer filed Aug. 14, 1962; v. 782; p. 628.

Hasselstrom, Edwin H., Edward B. Eriksen, and Oral A. Kozeny, Neodesha, Kans. Disclaimer filed by the assignee, Standard Oil Company. No. 2,818,458; disclaimer filed May 7, 1962; v. 779; p. 273.

Harm, Alson Robert, Verona, Alvin W. Ogg, Churchill, Pa., and Kenneth L. Niebauer, Seattle, Wash. Disclaimer filed by the assignee, Westinghouse Electric Corporation. No. 2,858,395; disclaimer filed Mar. 27, 1962; v. 778; p. 311.

Harrell, George L., Elmwood Park, Ill. Disclaimer filed by the assignee, The Merit Company. No. 3,025,624; disclaimer filed May 3, 1962; v. 779; p. 555.

Hatton, William, South Orange, N.J. Disclaimer filed by the assignee, International Telephone and Telegraph Corporation. No. 2,889,410; disclaimer filed Apr. 9, 1962; v. 778; p. 1037.

Heinle, Lawrence A., San Mateo, Calif. Disclaimer filed by the inventor. No. 2,889,121; disclaimer filed June 12, 1962; v. 780; p. 1049.

Herzog, Gerald B., and Leslie L. Burns, Jr., Princeton, N.J. Disclaimer filed by the assignee, Radio Corporation of America. No. 2,943,143; disclaimer filed Jan. 2, 1962; v. 775; p. 317.

Heuer, Russell Pearce, Bryn Mawr, Pa. Disclaimer filed by the assignee, General Refractories Company. No. 3,005,-424; disclaimer filed Apr. 27, 1962; v. 779; p. 1.

Hjulian, Julius A., Palos Heights, Ill. Disclaimer filed by the assignee, Elie P. Aghnides. No. 2,754,097; disclaimer filed Jan. 26, 1962; v. 777; p. 2.

Hochfeld, Henry, New York, N.Y. Disclaimer filed by the inventor. No. 2,901,951; disclaimer filed Sept. 7, 1962; v. 783; p. 576.

Holt, Harold S., Wilmington, Del. Disclaimer filed by the assignee, E. I. du Pont de Nemours and Company. No. 2,815,369; disclaimer filed Oct. 30, 1962; v. 785; p. 1.

Horsch, James R., Elmhurst, Ill. Disclaimer filed by the assignee, General Electric Company. No. 2,838,669; disclaimer filed Jan. 30, 1962; v. 776; p. 4.

Howes, Ronald B., and Robert F. Gill, Jr., Cincinnati, Ohio. Disclaimer and dedication filed by the assignee, Jack F. Koons, Jr. No. 2,825,668; disclaimer and dedication filed Dec. 28, 1961; v. 775; p. 616.

Huntington, Andrew B., Royal Oak, and Bernard W. Ames, Ferndale, Mich. Disclaimer filed by the assignee, Ross Operating Valve Company. No. 2,922,432; disclaimer filed Aug. 7, 1962; v. 782; p. 273.

Hurko, Bohdan, and Elbert P. Robare, Louisville, Ky. Disclaimer filed by the assignee, American Radiator & Standard Sanitary Corporation. No. 2,773,268; disclaimer filed Aug. 23, 1962; v. 784; p. 2.

Jansen, Raymond K., Ventura, Calif. Dedication filed by the inventor. No. 2,731,300; dedication filed Mar. 30, 1962; v. 778; p. 311.

Jentoft, Arthur P., Wexford, Pa. Disclaimer filed by the assignee, H. H. Robertson Company. No. 3,026,041; disclaimer filed Sept. 13, 1962; v. 783; p. 897.

Jordan, Harold K., and Joseph B. Rawls, Winston-Salem, N.C. Disclaimer filed by the assignee, Western Electric Company, Incorporated. No. 3,007,291; disclaimer filed June 15, 1962; v. 780; p. 1049.

Kegg, Robert R., Toledo, Ohio. Dedication filed by the assignee, Owens-Illinois Glass Company. No. 3,002,645; dedication filed Sept. 12, 1962; v. 784; p. 2.

Keizer, Eugene O., Princeton, N.J. Disclaimer filed by the assignee, Radio Corporation of America. No. 2,883,451; disclaimer filed Aug. 6, 1962; v. 782; p. 887.

Kennedy, Ralph C., Queens Village, N.Y. Disclaimer filed by the assignee, Radio Corporation of America. No. 2,846,497; disclaimer filed Oct. 3, 1962; v. 784; p. 719.

Lawrence, Augustine Hicks, Jr., and John H. Dowling, Wilmington, Del. Disclaimer filed by the assignee, E. I. du Pont de Nemours and Company. No. 3,042,479; disclaimer filed July 19, 1962; v. 781; p. 845.

Levenson, Berl D., Los Angeles, Calif. Disclaimer filed by the assignee, Hughes Aircraft Company. No. 3,005,960; disclaimer filed Mar. 28, 1962; v. 778; p. 311.

Lewellen, Emmons F., and Rodman H. Lewellen, Columbus, Ind. Disclaimer filed by the inventors. No. 2,976,739; disclaimer filed May 28, 1962; v. 779; p. 899.

Lindsay, James E., Moorestown, N.J. Disclaimer filed by the assignee, Radio Corporation of America. No. 2,816,230; disclaimer filed Sept. 17, 1962; v. 784; p. 362.

London, Eric, Fareham, Hampshire, and George Daniel Twigg, Goostrey, Cheshire, England. Disclaimer filed by the assignee, Benger Laboratories Limited. Reissue No. 24,642; disclaimer filed Nov. 20, 1962; v. 785; p. 1113.

McClure, Carroll W., McKeesport, Pa. Dedication filed by the assignee, United States Steel Corporation. No. 2,749,624; dedication filed Apr. 5, 1962; v. 778; p. 1038.

McKinley, Raymond E., and Sidney J. Michael, Erie, Pa. Disclaimer filed by the inventors. No. 2,909,153; disclaimer filed Sept. 18, 1962; v. 784; p. 2.

Maedler, Paul E., East Providence, R.I. Disclaimer filed by the assignee, Speidel Corporation. No. 2,949,784; disclaimer filed Apr. 4, 1962; v. 778; p. 1326.

Mohler, Robert D., Glen Ellyn, Ill. Disclaimer filed by the assignee, Motorola, Inc. No. 2,968,739; disclaimer filed Mar. 5, 1962; v. 778; p. 1.

Moore, Arnold R., Princeton, N.J. Disclaimer filed by the assignee, Radio Corporation of America. No. 2,811,653; disclaimer filed Dec. 22, 1961; v. 775; p. 1.

Mueller, Charles W., Princeton, N.J. Disclaimer filed by the assignee, Radio Corporation of America. No. 2,817,613; disclaimer filed Dec. 22, 1961; v. 775; p. 1.

Myers, William D., Los Altos, and Howard M. Zeidler, Palo Alto, Calif. Disclaimer filed by the assignee, Hewlett-Packard Company. No. 2,747,098; disclaimer filed June 27, 1962; v. 781; p. 2.

Neff, Glyn A., Pasadena, Calif. Disclaimer filed by the assignee, Consolidated Electrodynamics Corporation. No. 2,904,776; disclaimer filed Aug. 10, 1962; v. 782; p. 628.

O'Grady, Joseph V., Middletown Township, Monmouth County, and Donald T. Moynihan, Westfield, N.J. Disclaimer filed by the assignee, Montgomery Elevator Company. No. 2,938,604; disclaimer filed Jan. 22, 1962; v. 777, p. 2.

Plouffe, Robert L., Jr., Livingston, N.J. Disclaimer filed by the assignee, International Telephone and Telegraph Corporation. No. 2,820,909; disclaimer filed Apr. 9, 1962; v. 778; p. 1037.

Pratt, Thomas W. Rutherford, N.J. Disclaimer filed by the assignee, The M. W. Kellogg Company. No. 2,834,715; disclaimer filed Mar. 13, 1962; v. 777, p. 879.

Ringold, Howard J., and George Rosenkranz, Mexico City, Mexico. Disclaimer filed by the inventors; the assignee, Syntex S.A., assenting. No. 2,844,602; disclaimer filed Jan. 11, 1962; v. 775; p. 616.

Ropiequet, Richard L., Portland, Oreg. Disclaimer filed by the assignee, Tektronix, Inc. No. 2,853,609; disclaimer filed Sept. 13, 1962; v. 784; p. 2.

Runde, Byron A., Farmington, and Irvin William Boruzke, Detroit, Mich. Disclaimer filed by the assignee, Burroughs Corporation. No. 3,023,951; disclaimer filed July 11, 1962; v. 781; p. 291.

Sandretto, Peter C., East Orange, N.J. Disclaimer filed by the assignee, International Telephone and Telegraph Corporation. No. 2,822,536; disclaimer filed Apr. 9, 1962; v. 778; p. 1037.

Saykay, Joseph J., Sea Cliff, N.Y. Disclaimer filed by the assignee, Fairchild Camera and Instrument Corporation. No. 2,859,276; disclaimer filed Nov. 13, 1961; v. 774; p. 2.

Schneider, William S., Los Angeles, Calif. Disclaimer filed by the assignee, Packaging Frontiers, Inc. No. 2,942,760; disclaimer filed May 28, 1962; v. 780; p. 1049.

Schonfeldt, Nikolaus Augustin, Molndal, and Kurt Helmut Grunewald, Goteborg, Sweden. Disclaimer filed by the assignee, American Enka Corporation. No. 3,026,171; disclaimer filed Apr. 9, 1962; v. 778; p. 1037.

Schrenk, Hans Alwin, Arnhem, Pieter van Dijk, Velp, and James Watt Ijsbrand Heijnis, Arnhem, Neterlands. Disclaimer filed by the assignee, American Enka Corporation. No. 2,855,750; disclaimer filed Jan. 12, 1962; v. 775; p. 616.

Sherbondy, William A., Cleveland Heights, Ohio. Disclaimer filed by the inventor. No. 2,920,797; disclaimer filed Aug. 24, 1962; v. 783; p. 1.

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1962

DECISIONS PUBLISHED IN THE OFFICIAL GAZETTE

Alford, Andrew, In re. 780 O.G. 718.
Alpert, Marshall B., *v.* Harvey L. Slatin. 785 O.G. 5.
Application Papers of Kopf et al., In re. 779 O.G. 290.
Barnard, Robert D., Ex parte. 783 O.G. 6.
Barr Rubber Products Company, The *v.* Burlington Mills, Inc. and David L. Ladd, Commissioner of Patents. 781 O.G. 555.
Bartlett, Angelo E., and Elwood J. Fletcher, In re. 780 O.G. 10.
Beyer, Carlton E., and Robert B. Dahl, In re. 776 O.G. 612.
Bluestone, Henry, Ex parte. 783 O.G. 901.
Booth, Harry T., and Frank E. Carroll, Jr., In re. 778 O.G. 1332.
Cavallito, Chester John, and Allan Poe Gray, In re. 785 O.G. 35.
Chilowsky, Constantin, In re. 785 O.G. 404.
Commonwealth Engineering Company of Ohio, and Carl Berger, The *v.* David L. Ladd, Commissioner of Patents. 780 O.G. 1425.
Commonwealth Engineering Company of Ohio, and Carl Berger, The *v.* David L. Ladd, Commissioner of Patents. 780 O.G. 1431.
Conover, Warren C., In re. 784 O.G. 738.
Creamer, Edgar M., Jr. *v.* Loren R. Kirkwood and Alton J. Torre. 785 O.G. 12.
Danusis, Adolf, Ex parte. 783 O.G. 5.
Davis, William True, Jr., and Fred M. Murdock, In re. 783 O.G. 1244.
De Napoli, Anthony C., Jr., and Donald F. Balmer, In re. 781 O.G. 557.
Dickinson, William B., and Bernard L. Zenitz, In re. 780 O.G. 13.
Dilnot, Sidney, In re. 780 O.G. 698.
Drummond, Folsom E., In re. 781 O.G. 6.
Egbert, Robert B., and Alfred Saffer, In re. 778 O.G. 1045.
Eller, Saul A., In re. 778 O.G. 5.
Ernst, Walter, In re. 784 O.G. 13.
Farquhar, John P., and Frank F. Crandell, In re. 785 O.G. 42.
Faulstich, Marga, Ex parte. 783 O.G. 251.
Feissel, Ex parte. 779 O.G. 567.
Fields, Joseph E., In re. 784 O.G. 8.
Finkelstein, Morris B., and Burton R. Clay *v.* Sol L. Reiches. 784 O.G. 1132.
Fisher, Joseph D., In re. 785 O.G. 379.
Floyd, Edwin, Jr., In re. 779 O.G. 5.
France, Dolan, Epton and Toffoli, Ex parte. 774 O.G. 5.
Fridolph, Annette E., In re. 785 O.G. 735.
Gay, Newsome W., In re. 785 O.G. 1117.
Gilbert, Thomas J., Ex parte. 783 O.G. 580.
Gordon, Robert B., and Walter J. Hurford, In re. 781 O.G. 303.
Grant, Samuel, In re. 784 O.G. 734.
Hankus, Chester P., In re. 782 O.G. 279.
Hardy, John M., William B. Taylor, and Wilber H. Griffin, In re; Taylor, William B., John M. Hardy, and Wilber H. Griffin, In re. 779 O.G. 563.
Hardy, John M., William B. Taylor, and Wilber H. Griffin, In re; Taylor, William B., John M. Hardy, and Wilber H. Griffin, In re. 781 O.G. 5.
Helin, Elis Erik Wilhelm, In re. 785 O.G. 1123.
Henatsch, Reynold, In re. 777 O.G. 883.
Hendrix, William L., *v.* David L. Ladd, Commissioner of Patents. 778 O.G. 1041.
Herr, Milton E., In re. 782 O.G. 891.
Hession, John W., Jr., In re. 778 O.G. 702.
Hidy, Phil H., and William F. Phillips, In re. 782 O.G. 16.
Hjermstad, Erling T., and Carl C. Kesler, In re. 782 O.G. 633.
Howell, Alleyne C., Jr., In re. 779 O.G. 558.
Hurlburt, Charles E., In re. 780 O.G. 1062.
Jacoby, Ben, Jr., In re. 785 O.G. 758.
Jalar et al. *v.* Melott. 774 O.G. 419.
Johnson, Alpha J., and John A. Moore *v.* Harry Riener. 781 O.G. 9.
Jones, Gordon H., In re. 778 O.G. 316.
Jupa, Julius A., Ex parte. 781 O.G. 560.
Kelley, Oliver Kenneth, In re. 785 O.G. 413.
Kiekhaefer, Elmer Carl, In re. 779 O.G. 902.
Kiekhaefer, Elmer Carl, In re. 779 O.G. 906.
Kirchner, Frederick K., In re. 784 O.G. 369.
Kochan, John A., Ex parte. 776 O.G. 306.
Lacks, Hyman, Max Quatinetz and Arnold Freiberger, Ex parte. 782 O.G. 897.
Lambooy, John P., In re. 780 O.G. 703.
Lanham, William M., Ex parte. 783 O.G. 10.
Lansing, Horace L., In re. 781 O.G. 848.
Law, Don C., In re. 782 O.G. 286.
Le Grice, Edward Burton, In re. 785 O.G. 741.
Linnert, George E., and Ronald H. Espy, In re. 785 O.G. 1127.
Lorenz, Walter, and Richard Wegler, In re. 785 O.G. 27.
Luce, Harold R., In re. 782 O.G. 636.
Lulek, Ralph N., In re. 785 O.G. 17.
Malecki, In re. 774 O.G. 728.
Mortsell, Tage Emanuel, deceased, Sala Maskinfabriks, A.B., Assignee *v.* Errki A. Laurila, Assignor to Aktiengesellschaft fur Unternehmunger der Eisen- und Stahlindustrie. 780 O.G. 1437.
Nenzell, Joseph F., *v.* Lester E. Hutson, Malcolm V. Imboden, and Clifton L. Englis. 779 O.G. 918.
Nocka et al., Ex parte. 774 O.G. 211.
Norman, George R., William M. LeSuer, and Thomas W. Mastin, In re., 785 O.G. 1132.
Novak, Leo J., and Joseph T. Tyree, In re. 784 O.G. 1106.
Novak, Leo J., and Walter S. Hogue, In re. 784 O.G. 1113.
Olah et al., Ex parte. 775 O.G. 897.
Parfrey, Francis Trigg, In re. 783 O.G. 1242.
Pennington, Neal A., In re. 781 O.G. 861.
Petering, Harold G., and Harry H. Fall, In re. 780 O.G. 710.
Pfeiffer, Paul O., Ex parte. 782 O.G. 639.
Price, Leo, In re. 781 O.G. 14.
Prindle, Karl E., and Ross C. Reed, In re. 777 O.G. 549.
Ranier, William C., Edward M. Redding, Joseph J. Hitoy, Arthur W. Sloan, and William D. Stewart, In re. 784 O.G. 747.
Robitschek *v.* Tapas and Dissen. 776 O.G. 7.
Rodin, Walter H. *v.* Thomas R. Spalding. 777 O.G. 307.
Ross, Walter Charles Joseph, and Walter Davis, In Re. 785 O.G. 30.
Schechter, William H., In re. 780 O.G. 1052.
Schwartz, Sidney, In re. 776 O.G. 905.
Shook, Ellen Louise, In re. 780 O.G. 1057.
Simon, Eli, Frank W. Thomas, and Welton R. Burney, Jr., In re. 782 O.G. 12.
Sinex, Gene O., In re. 785 O.G. 1136.
Smitley, Marion L., In re. 775 O.G. 5.
Spelman, Rollin H., and George W. Anderson, In re. 780 O.G. 1055.
Sporck, Claus L., In re. 780 O.G 1431.
Steele, Arthur B., Jr., Edward J. Mills, Jr., and Donald G. Leis, In re. 785 O.G. 2.
Sus, Oskar, and Werner Schaefer, In re. 784 O.G. 723.
Szumski, Stephen A., In re. 781 O.G. 300
Thornhill, Homer E., In re. 785 O.G. 369.
Turlay, Joseph D., In re. 784 O.G. 1126.
Van Der Veer, Hilker, Jr., and Bondelid, Ex parte. 779 O.G. 6.
Went, Jan J., In re. 785 O.G. 729.
Wilkinson, Raymond G., and James H. Boothe, In re. 785 O.G. 726.
Wolfensperger, Adolph, In re. 781 O.G. 852.
Wynne, Hubert Cecil, In re. 781 O.G. 296.
Zenith Radio Corporation *v.* David L. Ladd, Commissioner of Patents. 785 O.G. 760.

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